DEL MAR HEIGHTS SCHOOL REBUILD

DEL MAR UNION SCHOOL DISTRICT

13555 BOQUITA DRIVE, DEL MAR, CA 92014

INCREMENT 02

02/28/2020

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DEL MAR HEIGHTS SCHOOL REBUILD

DEL MAR UNION SCHOOL DISTRICT

SYMBOLS

NORTH ARROW

ITEM / ELEVATION — SPOT ELEVATION

ITEM / ELEVATION — FINISH FLOOR LEVEL

A / 1 — STRUCTURAL GRID LINES

MATCH LINE

DTL # / SHT # — DETAIL REFERENCE TAG
DETAIL NUMBER
SHEET NUMBER

DTL # / SHT # — BUILDING SECTION TAG
DETAIL NUMBER
SHEET NUMBER

DTL# / SHT # — BUILDING ELEVATION TAG
DETAIL NUMBER
SHEET NUMBER

ROOM / 101 / 9'-0" — ROOM NAME TAG
ROOM NUMBER
ROOM CEILING HEIGHT

DTL # / DTL # / SHT # / DTL # — INTERIOR ELEVATION TAG
DETAIL NUMBER
SHEET NUMBER

X — WALLTYPE TAG
(SEE SHEET G---)

X — WINDOW NUMBER TAG
(SEE WINDOW SCHEDULE)

XXX — DOOR NUMBER TAG
(SEE DOOR / FRAME SCHEDULE)

XXXXXX.XX — CONSTRUCTION KEYNOTE
(SEE LEGEND EACH SHEET)

XXXXXX.XX — DEMOLITION KEYNOTE
(SEE LEGEND EACH SHEET)

AGENCY REQUIREMENTS

1. COMPLIANCE WITH TITLE 24, CCR, PARTS 1–6 AND 9.
2. TITLE 24, CCR, PARTS 1–5 MUST BE KEPT ON SITE DURING CONSTRUCTION
3. ALL ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY DSA. (SECTION 4-338(b), PART (1)
4. ALL SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CHANGE ORDER OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION. (IR A-6) (SECTION 4-338(c), PART 1) SUBSTITUTIONS SHALL BE FOR ANY MATERIAL, SYSTEM OR PRODUCT THAT WOULD OTHERWISE BE REGULATED BY DSA.
5. THE CHANGE ORDERS/CCD AND FIELD CHANGE DOCUMENTS (PRELIMINARY CHANGE ORDERS) (SECTION 4-338(c)(d), PART 1) MUST BE SIGNED BY ALL THE FOLLOWING:
   a. A/E OF RECORD
   b. OWNER (CHANGE ORDERS ONLY)
   c. STRUCTURAL ENGINEER (WHEN APPLICABLE)
   d. DELEGATED PROFESSIONAL ENGINEER (WHEN APPLICABLE)

   AND SHALL BE SUBMITTED TO AND APPROVED BY DSA.
6. THE PROJECT INSPECTOR AND TESTING LAB SHALL BE EMPLOYED AND PAID BY THE OWNER AND APPROVED BY ALL OF THE FOLLOWING:
   a. A/E OF RECORD
   b. STRUCTURAL ENGINEER (WHEN APPLICABLE)
   c. DSA
7. FOR ALTERATIONS, REHABILITATION OR RECONSTRUCTION AS STATED IN TITLE 24, PART 1 SECTION 4-317(c) OR SIMILAR MEANING: "THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK."

APPLICABLE CODES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH:

   2019 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.

   2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
   (2018 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2019 CALIFORNIA AMENDMENTS)

   2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
   (2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)

   2019 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
   (2018 UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)

   2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
   (2018 UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)

   2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.

   2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
   (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)

   2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.

   2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.

   TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

   2013 ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS

2. ALL BARRIER FREE ITEMS SHALL COMPLY WITH TITLE 21 AND 24 OF THE CALIFORNIA CODE OF REGULATIONS, 2019.
3. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE REQUIREMENTS OF THESE CODES AND ALL APPLICABLE LOCAL ORDINANCES. WHERE CODES CONFLICT, THE MORE STRINGENT SHALL APPLY.
4. PROTECTION DURING WELDING: CONFORM TO TITLE 8, C.C.R. FURTHER PROTECT OCCUPANTS AND THE PUBLIC WITH PORTABLE SOLID VISION BARRICADES AROUND LOCATION WHERE WELDING IS BEING PERFORMED. PROVIDE SIGNS WARNING AGAINST LOOKING AT WELDING WITHOUT PROPER EYE PROTECTION OR EQUIVALENT. SEE C.F.C. FOR REQUIREMENTS FOR ON SITE WELDING.
5. DURING THE ENTIRE CONSTRUCTION PERIOD, IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CONDITIONS AT THE PROJECT SITE TO MEET THE REQUIREMENTS OF D.S.A. AND THE CALIFORNIA OCCUPATIONAL REGULATIONS. THIS PROVISION SHALL COVER THE CONTRACTOR'S EMPLOYEES AND ALL OTHER PERSONS WORKING UPON OR VISITING THE SITE. THE CONTRACTOR SHALL BECOME FULLY INFORMED OF ALL APPLICABLE STANDARDS AND REGULATIONS AND INFORM ALL PERSONS AND REPRESENTATIVES RESPONSIBLE FOR WORK UNDER THIS CONTRACT.

APPLICABLE STANDARDS

NFPA 13	AUTOMATIC FIRE SPRINKLER SYSTEMS	2019 EDITION
NFPA 14	STANDPIPE AND HOSE SYSTEMS	2019 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
NFPA 20	STATIONARY PUMPS FOR FIRE PROTECTION	2019 EDITION
NFPA 22	WATER TANKS FOR PRIVATE FIRE PROTECTION	2018 EDITION
NFPA 24	PRIVATE FIRE MAINS & THEIR APPURTENANCES	2019 EDITION
NFPA 25	STANDARD FOR INSPECTION, TESTING AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS	2017 EDITION
NFPA 72	NATIONAL FIRE ALARM & SIGNALING CODE	2019 EDITION
NFPA 80	FIRE DOORS AND OTHER OPENING PROTECTIVES	2019 EDITION
NFPA 92	STANDARD FOR SMOKE CONTROL SYSTEMS	2018 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2019 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2018 EDITION
ICC 300ICC	STANDARDS ON BLEACHERS, FOLDING AND TELESCOPING SEATING AND GRAND STANDS	2017 EDITION
UL 300	FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF RESTAURANT COOKING AREAS	2019 EDITION
UL 464	AUDIBLE SIGNAL APPLIANCES	2016 EDITION
UL 521	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS- 2019 CBC (SFM) CHAPTER 35. SEE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

Statement of General Conformance
FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS,
INCLUDING BY NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS
(Application No. 04-XXXXXX'ile No. 00-000)

☒ All drawings or sheets listed on the cover or index sheet (Civil, Landscape, Structural, Mechanical, Plumbing, Electrical)
☒ This drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

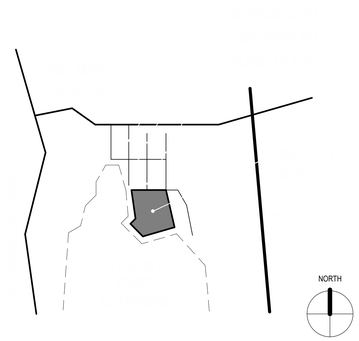
1. design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
2. coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. *(Title 24, Part 1, Section 4-317 (b))*

I find that: ☒ All drawings or sheets listed on the cover or index sheet ☒ This drawing or page

☒ is/are in general conformance with the project design, and	☒ is/are in general conformance with the project design, and
☒ has/have been coordinated with the project plans and specifications	☒ has/have been coordinated with the project plans and specifications
Signature / **Date**	**Signature** / **Date**
Architect or Engineer designated to be in general responsible charge	**Architect or Engineer delegated responsibility for this portion of the work**
Print Name	**Print Name**
License Number / **Exp. Date**	**License Number** / **Exp. Date**

VICINITY MAP NOT TO SCALE



PROJECT DESCRIPTION

EXISTING ELEMENTARY SCHOOL BUILDINGS AND SITE FEATURES/UTILITIES TO BE DEMOLISHED AND REPLACED WITH A NEW CAMPUS INCLUDING:
BUILDING A - ADMINISTRATION AND KINDERGARTEN CLASSROOMS
BUILDING C - CLASSROOM VILLAGES
BUILDING D - CLASSROOM VILLAGES
BUILDING M - MULTI-PURPOSE ROOM, INNOVATION CENTER, SCIENCE CLASSROOMS, FOOD SERVICE
SITE IMPROVEMENTS - PARKING, AMPHITHEATER, PLAYGROUNDS, FIELDS.

APP NUMBER: 04-XXXXXX
FILE NUMBER: 00-000

LEGAL DESCRIPTION

ALL THAT PORTION OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 24, TOWNSHIP 14 SOUTH, RANGE 4 WEST, SAN BERNARDINO MERIDIAN, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO THE UNITED STATES GOVERNMENT SURVEY APPROVED JANUARY 18, 1876 AS DESCRIBED IN DOCUMENT NO. 1999-0512444 RECORDED IN THE OFFICE OF THE RECORDER FOR SAN DIEGO COUNTY JULY 26, 1999.

DEFERRED APPROVAL ITEMS

FABRICATION AND INSTALLATION OF DEFERRED APPROVAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER WHO HAS BEEN DELEGATED THE RESPONSIBILITY OF COVERING THE WORK SHOWN ON A PARTICULAR PLAN OR SPECIFICATION, AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT. DEFERRED ITEMS SHALL BE COMPLETED PRIOR TO OCCUPANCY OF BUILDINGS AFFECTED BY THE DEFERRED WORK.

ALL WORK SHALL CONFORM TO 2016 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

DEFERRED APPROVAL ITEMS ARE AS FOLLOWS:

1. WINDOW WALL SYSTEMS OR STOREFRONTS WITH SPANS OVER 10'-0"

2. SKYLIGHT SYSTEM, METAL FRAMED AT LUNCH SHELTER.

THE PLANS AND SPECIFICATIONS SHALL BE STAMPED AND SIGNED BY THE ARCHITECT AND ENGINEER OF RECORD BEFORE SUBMITTAL TO DSA.

GENERAL NOTES

1. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A C.C.D. APPROVED BY THE OFFICE OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, C.C.R.

2. A DSA ACCEPTED TESTING LABORATORY, EMPLOYED DIRECTLY BY THE OWNER (DISTRICT) SHALL CONDUCT ALL THE TESTS AND INSPECTIONS FOR THE PROJECT.

3. ALL WORK SHALL CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

4. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

INSPECTOR OF RECORD

INSPECTOR OF RECORD (IOR) OF RECORD SHALL BE EMPLOYED BY THE OWNER AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA). DUTIES AND REQUIRED IOR. CLASSIFICATION PER SECTION 4-342, TITLE 24, PART 1 CCR AND IR A-7: CLASS 1 CERTIFIED BY DSA.

PROJECT DIRECTORY

ARCHITECT
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FIRE PROTECTION
XXXX
XXXX
XXXX
PHONE: XXXX
MANAGER: XXXX
EMAIL: XXXX
WEB: XXXX

FOOD SERVICE
ORNESS DESIGN GROUP INC.
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WEB: WWW.ORNESSDESIGNGROUP.COM

OTHER
XXXX
XXXX
XXXX
PHONE: XXXX
MANAGER: XXXX
EMAIL: XXXX
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OWNER
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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

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TITLE SHEET

NO.	DATE	ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
G0.1.1

BIM 360://19009-00 Del Mar Heights ES/ARCH-BNDS-DMHS.rvt
2/24/2020 8:05:03 AM

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INT-A3	BUILDING A INTERIORS	INT
INT-C1	BUILDING C INTERIORS	INT
INT-C2	BUILDING C INTERIORS	INT
INT-C3	BUILDING C INTERIORS	INT
INT-M1	BUILDING M INTERIORS	INT
INT-M2	BUILDING M INTERIORS	INT
INT-M3	BUILDING M INTERIORS	INT
INT-M4	BUILDING M INTERIORS	INT

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

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ABBREVIATIONS

&	AND
∠	ANGLE
@	AT
AB	ANCHOR BOLT
ABAN	ABANDON
ABS	ACRYLONITRILE BUTADIENE STYRENE
ABV	ABOVE
AC	AIR CONDITIONING
AC	ASPHALTIC CONCRETE
ACOUS	ACOUSTICAL
AC PVG	ASPHALT CONCRETE PAVING
ACP	ACOUSTICAL PANEL
ACT	ACOUSTICAL TILE
ACU	AIR CONDITIONING UNIT
AD	AREA DRAIN
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AGGR	AGGREGATE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
AMT	AMOUNT
ANOD	ANODIZED
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
ASD	AUTOMATIC SPRINKLER DRAIN
ASPH	ASPHALT
ASSY	ASSEMBLY
AV	AUDIO VISUAL
AWP	ACOUSTICAL WALL PANEL
BAL	BALANCE
BBD	BULLETIN BOARD
BBRG	BALL BEARING
BC	BACK OF CURB
BD	BOARD
BG	BUMPER GUARD
BETW	BETWEEN
BEV	BEVEL
BITUM	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLKHD	BULKHEAD
BLW	BELOW
BM	BEAM
BM	BENCH MARK
BMU	BRICK MASONRY UNIT
BOF	BOTTOM OF FOOTING
BOT	BOTTOM
BRG	BEARING
BRS	BRASS
BRZ	BRONZE
BSMNT	BASEMENT
BUR	BUILT-UP ROOF
_C_	CENTERLINE
C&G	CURB AND GUTTER
C/C	CENTER TO CENTER
CAB	CABINET
CB	CORNER BEAD
CB	CATCHBASIN
CBD	CHALKBOARD
CCTV	CLOSED CIRCUIT TELEVISION
CCW	COUNTER CLOCKWISE
CEM	CEMENT
CER	CERAMIC
CI	CAST IRON
CIP	CAST IRON PIPE
CJ	CONSTRUCTION JOINT
CF	CLEAR FINISH COATING
CFX	CLEAR FINISH COATING - EXTERIOR
CG	CORNER GUARD
CL	CENTER LINE
CLG	CEILING
CLG DIFF	CEILING DIFFUSER
CLG HT	CEILING HEIGHT
CLG REG	CEILING REGISTER
CLO	CLOSET
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
COM	COMMON
COMB	COMBINATION
COMPL	COMPLETE
CONC	CONCRETE
CONC FL	CONCRETE FLOOR
COND	CONDENSER/CONDENSATE
CONF	CONFERENCE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS/CONTINUATION
CONTR	CONTRACT/CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
COTG	CLEAN OUT TO GRADE
COV	COVER
COV PL	COVER PLATE
CP	CONCRETE PAVING
CP	CONTROL PANEL
CPT	CARPET
CPVC	CHLORINATED POLYVINYL CHLORIDE
CR	CRASHRAIL
CR	COAT RACK/COAT ROD
CRSTL	COLD ROLLED STEEL
CS	CHANGING STATION
CSK	COUNTERSINK
CSMNT	CASEMENT
CT	CERAMIC TILE
CTV	CABLE TELEVISION
CU YD	CUBIC YARD
CW	COLD WATER
CYL	CYLINDER
DAT	DATUM
DBL ACT	DOUBLE ACTING
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIAG	DIAGONAL
DIAM	DIAMETER
DIFF	DIFFERENCE
DIFF	DIFFUSER
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DISP	DISPENSER
DIV	DIVISION
DL	DEAD LOAD
DN	DOWN
DO	DITTO
DR	DOOR
DRN	DRAIN
DS	DIRECTIONAL SIGN
DS	DOWNSPOUT
DUPL	DUPLICATE
DW	DISHWASHER
DWG	DRAWING
DWL	DOWEL
DWR	DRAWER
DWV	DRAIN WASTE & VENT
E	EAST
EA	EACH
(E)	EXISTING
EC	ELASTOMERIC COATING
ECON	ECONOMIZER
ECU	EVAPORATIVE COOLING UNIT
EF	EACH FACE
EHD	ELECTRIC HAND DRYER
EJ	EXPANSION JOINT
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EMER	EMERGENCY
ENAM	ENAMEL
ENCL	ENCLOSURE
ENGR	ENGINEER
ENTR	ENTRANCE
EP	ELECTRICAL PANEL
EOP	EDGE OF PAVEMENT
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT
ES	EACH SIDE
EST	ESTIMATE
ESMNT	EASEMENT
EW	EACH WAY
EWC	ELECTRICAL WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXIST GR	EXISTING GRADE
EXP	EXPANSION
EXP JT	EXPANSION JOINT
EXT	EXTERIOR
F/F	FACE TO FACE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FC	FOOTCANDLE
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FEM	FEMALE
FGL	FIBERGLASS
FHC	FIRE HOSE CABINET
FHMS	FLAT HEAD MACHINE SCREW
FHWS	FLAT HEAD WOOD SCREW
FH	FIRE HYDRANT
FIN	FINISH
FIXT	FIXTURE
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLASHING
FL	FLOW LINE
FLR	FLOOR/FLOORING
FLR FIN	FLOOR FINISH
FLUOR	FLUORESCENT
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FPM	FEET PER MINUTE
FREQ	FREQUENCY
FS	FLOOR SINK
FSPKR	FIRE SPRINKLER
FSS	FOLDING SHOWER SEAT
FSTNR	FASTENER
FT	FOOT
FTG	FITTING
FTG	FOOTING
FURR	FURRING
FURN	FURNITURE
FUT	FUTURE
FWC	FABRIC WALL COVERING
G	GAS
GA	GAGE/GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GI	GALVANIZED IRON
GL	GLASS
GLU LAM	GLUE LAMINATED
GLBM	GLUE LAMINATED BEAM
GLZ	GLAZING
GMU	GLASS MASONRY UNIT
GND	GROUND
GOVT	GOVERNMENT
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRADE/GRADING
GRC	GRAFITTI RESISTANT COATING
GR BM	GRADE BEAM
GR LN	GRADE LINE
GRTG	GRATING
GRV	GRAVITY ROOF VENTILATOR
GSTL	GALVANIZED STEEL
GV	GRAVITY VENT
GVL	GRAVEL
GVTR	GAS VENT THROUGH ROOF
GYP	GYPSUM
GBD	GYPSUM BOARD
H	HIGH
H PLAM	HIGH PRESSURE LAMINATE
HB	HOSE BIBB
HC	HOLLOW CORE
HC	HOSE CABINET
HD	HEAD
HDBD	HARDBOARD
HDR	HEADER
HDWL	HEADWALL
HDWR	HARDWARE
HGR	HANGER
HGT	HEIGHT
HHWS	HEX HEAD WOOD SCREW
HM	HOLLOW METAL
HO	HOLD-OPEN
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HS	HIGH STRENGTH
HSB	HIGH STRENGTH BOLT
HTG	HEATING
HTR	HEATER
HVY	HEAVY
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HW	HOT WATER
HYD	HYDRANT
ID	INSIDE DIAMETER
IF	INSIDE FACE
ILLUM	ILLUMINATION
INCAND	INCANDESCENT
INL	INLET
INSTL	INSTALLATION
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
INV EL	INVERT ELEVATION
IP	IRON PIPE
IPS	INSIDE PIPE SIZE
IPS	INTERNATIONAL PIPE STANDARD
ISO	ISOMETRIC
IWH	INSTANTANEOUS WATER HEATER
JAN	JANITOR
JB	JUNCTION BOX
JST	JOIST
JT	JOINT
KD	KILN DRIED
KD	KNOCK DOWN
KO	KNOCKOUT
KPL	KICKPLATE
L	LEFT
LAD	LADDER
LAM	LAMINATED
LAT	LATERAL
LAV	LAVATORY
LB	LAG BOLT
LB	POUND
LDG	LANDING
LDR	LEADER
LF	LINEAR FOOT
LG	LONG
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LIN	LINEAR
LKR	LOCKER
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LONG	LONGITUDINAL
LP	LOW POINT
LP	LOW PRESSURE
LS	LUMP SUM
LT	LIGHT
LT WT	LIGHTWEIGHT
LTG	LIGHTING
LTG PNL	LIGHTING PANEL
LUB	LUBRICATE
LV	LOW VOLTAGE
LVL	LEVEL
LVR	LOUVER
LVR	LEVER
LWC	LIGHTWEIGHT CONCRETE
M	MIRROR
MACH RM	MACHINE ROOM
MAINT	MAINTENANCE
MAN	MANUAL
MARBL	MARBLE
MAS	MASONRY
MATL	MATERIAL
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MB	MACHINE BOLT
MB	MIXING BOX
MBF	THOUSAND BOARD FEET
MBD	MARKER BOARD
MC	MOMENT CONNECTION
MC	MEDICINE CABINET
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAID
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MET	METAL
MEZZ	MEZZANINE
MFGR	MANUFACTURER
MH	MANHOLE
MI	MILE
MIR	MIRROR
MGL	MIRROR GLASS
MLDG	MOLDING
MLWK	MILLWORK
MO	MASONRY OPENING
MOD	MODULE
MON	MONUMENT
MPH	MILES PER HOUR
MR	MOP RACK
MS	MIRROR WITH SHELF
MTD	MOUNTED
MTG	MEETING
MTG	MOUNTING
MTR	METER
MTR	MORTAR
MULL	MULLION
MULT	MULTIPLE
#	NUMBER
N	NORTH
NA	NOT APPLICABLE
NAT	NATURAL
NCP	NON-REINFORCED CONCRETE PIPE
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NPS	NOMINAL PIPE SIZE
NRC	NOISE REDUCTION COEFFICIENT
NST	NATURAL STONE TILE
NTS	NOT TO SCALE
O/O	OUT TO OUT
OA	OUTSIDE AIR
OA	OVERALL
OBS	OBSCURE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OD	OUTSIDE DIMENSION
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OPPOSITE HAND
OHD	OVERHEAD
OHWS	OVAL HEAD WOOD SCREW
OPNG	OPENING
OPP	OPPOSITE
OPT	OPTIONAL
ORD	OVERFLOW ROOF DRAIN
ORIG	ORIGINAL
OVFL	OVERFLOW
OZ	OUNCE
d	PENNY
PAR	PARALLEL
PB	PANIC BAR
PBD	PARTICLEBOARD
PC	PIECE
PC	POINT OF CURVE
PC	PORTLAND CEMENT
PCF	POUNDS PER CUBIC FOOT
PD	PLANTER DRAIN
PERF	PERFORATED
PERIM	PERIMETER
PERM	PERMANENT
PERP	PERPENDICULAR
PF	PAINT FINISH
PFX	PAINT FINISH - EXTERIOR
PGL	PLASTIC GLAZING
PH	PHASE
PHOTO	PHOTOGRAPH
PHS	PHILLIP HEAD SCREW
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
PKG	PACKAGE
PL	PLATE
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLAT	PLATFORM
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
POL	POLISHED
PORT	PORTABLE
POS	POSITIVE
PR	PAIR
PRCST	PRECAST
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PRELIM	PRELIMINARY
PREP	PREPARATION
PRKG	PARKING
PROJ	PROJECT
PROP	PROPERTY
PS	PROJECTION SCREEN
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PTR	PAPER TOWEL RECEPTACLE
PTS	PNUEMATIC TUBE STATION
PVC	POLYVINYL CHLORIDE
PVG	PAVING
PVMT	PAVEMENT
PWR	POWER
QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY
QUAL	QUALITY
RA	RETURN AIR
RA GR	RETURN AIR GRILLE
RAD	RADIUS
RB	RUBBER BASE
RBR	RUBBER
RC	REINFORCED CONCRETE
RCP	PREINFORCED CONCRETE PIPE
RD	ROAD
RD	ROOF DRAIN
REC	RECESSED
RECD	RECEIVED
RECIRC	RECIRCULATE
RECPT	RECEPTACLE
RECPT	RECEPTIONIST
RECT	RECTANGULAR
REF	REFERENCE
REFL	REFLECTOR
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCED/REINFORCING
REM	REMOVABLE
RE	RIM ELEVATION
REQD	REQUIRED
RESIL	RESILIENT
RET	RETURN
RFG	ROOFING
RH	RELATIVE HUMIDITY
RH	RIGHT HAND
RHMS	ROUND HEAD MACHINE SCREW
RHR	RIGHT HAND REVERSE
RHWS	ROUND HEAD WOOD SCREW
RLG	RAILING
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RPW	RIGID PROTECTIVE WALLCOVERING
RS	ROOM SIGN
RSF	RESILIENT SHEET FLOORING
RTF	RESILIENT TILE FLOOR
RWC	RAIN WATER CONDUCTOR
RWF	RESILIENT WOOD FLOOR
RWL	RAIN WATER LEADER
S	SOUTH
S	SHELF
SA	SUPPLY AIR
SAG	SUPPLY AIR GRILLE
SALV	SALVAGE
SAN	SANITARY
SAT	SATURATION
SB	SPLASH BLOCK
SC	SHOWER CURTAIN
SC	SOLID CORE
SCD	SEAT COVER DISPENSER
SCHED	SCHEDULE
SD	SOAP DISPENSER
SD	STORM DRAIN
SD	SUPPLY DIFFUSER
SDS	SITE DIRECTIONAL SIGN
SEC	SECOND
SECT	SECTION
SGL	SINGLE
SHT	SHEET/SHEETING
SHTHG	SHEATHING
SHV	SHELVES/SHELVING
SHT	SHEET
SHTHG	SHEATHING
SIM	SIMILAR
SLV	SLEEVE
SM	SHEET METAL
SMS	SHEET METAL SCREW
SNK	SINK
SP	SPACING
SPCL	SPECIAL
SPEC	SPECIFICATION
SPD	SANITARY PRODUCTS DISPENSER
SFRM	SPRAYED FIRE RESISTIVE MATERIAL
SPKLR	SPRINKLER
SPKR	SPEAKER
SPLY	SUPPLY
SPW	SANITARY PRODUCTS WASTE RECEPTACLE
SQ	SQUARE
SQ FT	SQUARE FOOT
SQ IN	SQUARE INCH
SQ YD	SQUARE YARD
SS	SANITARY SEWER
SR	SHOWER ROD
SSNK	SERVICE SINK
SSTL	STAINLESS STEEL
ST	STREET
ST	STAIN FINISH
STA	STATION
STAG	STAGGERED
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STIF	STIFFENER
STIR	STIRRUP
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
STX	STAIN FINISH - EXTERIOR
SUH	SUSPENDED UNIT HEATER
SUSP	SUSPENDED
SV	STONE VENEER
SWHR	SHOWER
SWR	SEWER
SYM	SYMBOL
SYM	SYMMETRICAL
SYNTH	SYNTHETIC
SYS	SYSTEM
T	TEE
T	THERMOSTAT
T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TAN	TANGENT
TB	TOWEL BAR
TBD	TACKBOARD
TBD	TO BE DETERMINED
TBT	THIN BRICK TILE
TC	TOP OF CONCRETE
TC	TOP OF CURB
TD	TOWEL DISPENSER
TD	TRENCH DRAIN
TDR	TOWEL DISPENSER WASTE RECEPTACLE
TE	TOP ELEVATION
TECH	TECHNICAL
TEL	TELEPHONE
TEMP	TEMPERED
TEMP	TEMPERATURE
TEMP	TEMPORARY
TER	TERRAZZO
TERM	TERMINAL
THK	THICKNESS
THRESH	THRESHOLD
THRU	THROUGH
TOBM	TOP OF BEAM
TOC	TOP OF CURB
TOF	TOP OF FOOTING
TOL	TOLERANCE
TOM	TOP OF MASONRY
TOP	TOP OF PAVING
TOP	TOP OF PARAPET
TOS	TOP OF SHEATHING
TOS	TOP OF STEEL
TOT	TOTAL
TOW	TOP OF WALL
TPH	TOILET PAPER HOLDER
TPL	TOP OF PLATE
TRANS	TRANSPARENT
TRMS	TAMPER RESISTANT METAL SCREW
TRWS	TAMPER RESISTANT WOOD SCREW
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL
UC	UNDERCUT
UNFIN	UNFINISHED
UNGND	UNDERGROUND
UNIF	UNIFORM
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UTIL	UTILITY
UV	ULTRAVIOLET
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VB	VALVE BOX
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VCP	VITRIFIED CLAY PIPE
VCTBD	VINYL COVERED TACKBOARD
VENT	VENTILATOR
VERT	VERTICAL
VEST	VESTIBULE
VIB	VIBRATION
VIT	VITREOUS
VNR	VENEER
VOL	VOLUME
VS	VEHICULAR SIGN
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	WEST
W/	WITH
W/O	WITHOUT
W/W	WALL TO WALL
WC	WATER CLOSET
WCO	WALL CLEANOUT
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WGL	WIRE GLASS
WH	WALL HYDRANT
WHTR	WATER HEATER
WI	WROUGHT IRON
WIC	WOODWORK INSTITUTE OF CALIFORNIA
WID	WIDTH
WL	WATER LINE
WL	WIND LOAD
WP	WORKING POINT
WP	WATERPROOF
WR	WATER RESISTANT
WR	WASTE RECEPTACLE
WSCT	WAINSCOT
WSP	WET STAND PIPE
WT	WEIGHT
WTR	WATER
WTRPRF	WATERPROOFING
WWF	WELDED WIRE FABRIC
XFMR	TRANSFORMER
YB	YARD BOX
YD	YARD
ZA	ZINC ALLOY

FINISH NOTES

1. ALL CEILING HEIGHT DIMENSIONS MEASURED TO FINISH SURFACES UNLESS NOTED OTHERWISE.

2. EXTEND BASE MATERIAL & FINISHES BEHIND ALL MOVABLE EQUIPMENT AND INTO ALL ALCOVES, KNEESPACES AND SIMILAR AREAS, UNLESS NOTED OTHERWISE.

3. WHEN COUNTERTOP SPLASH IS REQUIRED, EXTEND SPLASH ON SIDES WHERE COUNTER JOINS ADJACENT WALL SURFACE UNLESS NOTED OTHERWISE.

4. ALL INTERIOR FINISHES SHALL COMPLY WITH CHAPTERS 8 AND 25, PART 2, TITLE 24, CCR, INCLUDING TABLE 803.5, AND TABLES 2506.2, 2507.2, 2508.1, 2508.5, 2511.1.1 & 2512.6.

5. PROVIDE BACKING PLATES OR BLOCKING BEHIND ALL WALL MOUNTED EQUIPMENT, CASEWORK, AND ACCESSORIES AS REQUIRED FOR POSITIVE ATTACHMENT TO STRUCTURE.

ACCESSIBILITY NOTES

1. PUBLIC WALKS FROM THE BUILDING TO THE PUBLIC WAY AND TO PARKING AREAS DESIGNATED AS ACCESSIBLE SHALL COMPLY WITH CHAPTER 11B, PART 2, TITLE 24, CCR. *PROVIDE WALKS A MINIMUM OF 48 INCHES WIDE AND WITH A GRADIENT NOT GREATER THAN 5% (1:20), WITH NO ABRUPT CHANGES GREATER THAN 1/2 INCHES IN THE DIRECTION OF TRAVEL.*

2. PROVIDE WALKS WITH LEVEL LANDINGS AT ALL EXTERIOR EXIT DOORS COMPLYING WITH CHAPTERS 10 AND 11B, PART 2, TITLE 24, CCR. *WITH NOT LESS THAN 60 INCHES X 60 INCHES IN DIMENSION AND WITH MAXIMUM 2 PERCENT SLOPE.*

3. SURFACE CROSS SLOPE GRADIENT SHALL NOT EXCEED 2 PERCENT PER FOOT AT WALKS AND PATHS WITHIN THE ACCESSIBLE PATH OF TRAVEL.

4. PROVIDE ACCESSIBLE BUILDING ENTRANCES COMPLYING WITH CHAPTERS 10 AND 11B, PART 2, TITLE 24, CCR., UNLESS SHOWN OTHERWISE.

5. PROVIDE WARNING CURB, RAILING/GUIDE RAIL OR OTHER PROTECTIVE DEVICE AT ALL ABRUPT CHANGES IN LEVEL, (EXCEPT BETWEEN A WALK/SIDEWALK AND ADJACENT STREET OR DRIVEWAY) COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR. *PROVIDE MINIMUM 6 INCH HIGH CURB. WHERE GUARDRAIL OR HANDRAIL IS PROVIDED, NO CURB IS REQUIRED IF GUIDE RAIL IS PROVIDED. CENTERED AT 3 INCHES ABOVE SURFACE OF WALKWAY. PLUS OR MINUS 1 INCH. NO CURB IS REQUIRED IF WALKWAY IS 5 PERCENT OR LESS IN GRADIENT OR NO ADJACENT HAZARD EXISTS.*

6. DOOR CONSTRUCTION AND HARDWARE

PROVIDE THE BOTTOM 10 INCHES OF ALL DOORS (EXCEPT AUTOMATIC AND SLIDING DOORS) WITH A SMOOTH UNINTERRUPTED SURFACE PERMITTING THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.

LIMIT DOOR OPERATING FORCE IN COMPLIANCE WITH CHAPTER 11B, PART 2, TITLE 24, CCR. *MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED THE FOLLOWING:*

5 POUNDS FOR EXTERIOR DOORS
5 POUNDS FOR INTERIOR DOORS.
15 POUNDS FOR DOORS WITH FIRE RATED LABELS.

PROVIDE DOOR OPENING HARDWARE COMPLYING WITH CHAPTERS 10 AND 11B, PART 2, TITLE 24, CCR. *CENTER HAND-ACTIVATED DOOR OPENING HARDWARE BETWEEN 34 INCHES AND 44 INCHES ABOVE THE FLOOR. HAND ACTIVATED LATCHING AND LOCKING DOORS, LOCATED IN THE PATH OF TRAVEL, SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, BY PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. LOCKED EXIT DOORS SHALL BE ACCESSIBLE AS SPECIFIED IN DIRECTION OF EGRESS.*

PROVIDE THRESHOLDS COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR, WITH MAXIMUM TOTAL HEIGHT OF 1/2 INCHES.

FIRE & LIFE SAFETY NOTES

1. ALL INTERIOR FINISHES SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 8, PART 2, TITLE 24, CCR. ALL FINISHES SHALL HAVE A FLAME SPREAD RATING OF 75 OR LESS AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH CBC 2016 & ASTM E 84, and SHALL HAVE A CLASS A OR B FLAME SPREAD CLASSIFICATION PER TABLE 803.5 .

2. ALL INSULATION MATERIALS INSTALLED WITHIN ROOF - CEILING ASSEMBLIES, ATTICS, OR WALLS SHALL HAVE A FLAME - SPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH CBC 2016 & ASTM E 84.

3. PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN SUBJECTED TO THE REQUIREMENTS OF ASTM-E-814 AND CBC 2016 AND IN COMPLIANCE WITH THE PROJECT MANUAL.

4. ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATIONS, INCLUDING CONDUITS AND PIPING, THROUGH FIRE RATED WALL, FLOOR AND CEILING ASSEMBLIES SHALL BE TIGHTLY AND SOLIDLY SEALED WITH FIRESTOPPING COMPLYING WITH CBC 2016 & ASTM E 814 AND THE PROJECT MANUAL. WHERE ITEM PENETRATES AN AREA SEPARATION WALL, THE SECTION PASSING THROUGH THE WALL SURFACE AND THE FIXTURE CONNECTIONS THERETO SHALL BE ONLY OF METAL.

5. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A-10BC WITHIN A 75 FOOT TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDING ON EACH FLOOR.

6. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 1-BC FOR ELECTRICAL ROOMS, MECHANICAL ROOMS, ELEVATOR MACHINE ROOMS AND TRASH ROOMS.

7. PROVIDE AN APPROPRIATE NUMBER OF PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 4A-60BC FOR PROTECTION DURING CONSTRUCTION.

8. THE CONTRACTOR SHALL PROVIDE AND INSTALL TEMPORARY PEDESTRIAN PROTECTION AS REQUIRED BY LOCAL CODE AND SPECIFICATION.

9. DO NOT BLOCK EXITS AT ANY TIME.

10. DUCT INSULATION APPLIED TO THE EXTERIOR SURFACE OF DUCTS LOCATED IN BUILDINGS SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED RATING OF NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE INSTALLATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVES AS NORMALLY APPLIED.

11. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, STANDARDS AS DEFINED IN CHAPTER 35 CALIFORNIA BUILDING CODE AND APPLICABLE NFPA STANDARDS.

12. FIRE SPRINKLER SYSTEM AND AUTOMATIC EXTINGUISHING SYSTEM. DRAWINGS SHALL BE STAMPED AND SIGNED BY A C-16 CONTRACTOR, LICENSED FIRE PROTECTION ENGINEER, LICENSED MECHANICAL ENGINEER OR LICENSED CIVIL ENGINEER. PROVIDE TESTING IN THE PRESENCE OF THE ENFORCING AGENCY AT VARIOUS STAGES AND UPON COMPLETION AS SPECIFIED AND AS DIRECTED BY THE ENFORCING AGENCY. THE ARCHITECT WILL REVIEW SHOP DRAWINGS FOR HEAD TYPE, LOCATION CONFLICT AND SEISMIC RESTRAINT ONLY.

GENERAL NOTES

1. DURING THE ENTIRE CONSTRUCTION PERIOD, IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CONDITIONS AT THE PROJECT SITE, TO MEET THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND CALIFORNIA OCCUPATIONAL REGULATIONS . THIS PROVISION SHALL COVER THE CONTRACTOR'S EMPLOYEES AND ALL OTHER PERSONS WORKING UPON OR VISITING THE SITE. THE CONTRACTOR SHALL BECOME FULLY INFORMED OF ALL APPLICABLE STANDARDS AND REGULATIONS AND INFORM ALL PERSONS AND REPRESENTATIVES RESPONSIBLE FOR WORK UNDER THIS CONTRACT.

2. CONFIRM ALL NEW AND EXISTING CONDITIONS WITH THE CONTRACT DOCUMENTS. NOTIFY ARCHITECT IMMEDIATELY IN WRITING OF ALL DISCREPANCIES OR CONFLICTS. DO NOT PROCEED WITH WORK IN THE AREA OF DISCREPANCY OR CONFLICT UNTIL DIRECTION IS GIVEN BY ARCHITECT. IF CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM ARCHITECT, IT SHALL BE AT CONTRACTORS RISK, AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.

3. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED GRAPHICS. NOTIFY ARCHITECT IMMEDIATELY IN WRITING OF ALL ADDITIONAL REQUIRED DIMENSIONS. DO NOT PROCEED WITH WORK IN THE AREA OF DISCREPANCY OR CONFLICT UNTIL DIRECTION IS GIVEN BY ARCHITECT. IF THE CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM ARCHITECT, IT SHALL BE AT CONTRACTORS RISK, AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.

4. CORRECT ALL WORK INSTALLED IN CONFLICT WITH THE CONSTRUCTION DOCUMENTS BY CONTRACTOR AS DIRECTED BY ARCHITECT AND AT NO ADDITIONAL EXPENSE TO THE OWNER.

5. VISIT JOB SITE PRIOR TO BEGINNING WORK AND VERIFY ALL DIMENSIONS AND CONDITIONS.

6. SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES AND LICENSES REQUIRED FOR PROPER COMPLETION OF THE WORK. REQUEST ALL INSPECTIONS REQUIRED BY LOCAL GOVERNMENTAL AGENCIES AND COORDINATE THE WORK ACCORDINGLY.

7. WHERE WORK OR EQUIPMENT IS INDICATED "N.I.C." (NOT IN CONTRACT) ON THE DRAWINGS, SUCH WORK AND/OR EQUIPMENT SHALL BE PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE AND COOPERATE TO EFFECT SUCH INSTALLATION.

8. ALL PLAN DIMENSIONS SHOWN AT CENTER OF WALL REPRESENT CENTER LINE OF STUD OR STRUCTURAL

SCHEDULE-BUILDING CODE ANALYSIS - BUILDING A/M

BLDG	CONSTRUCTION TYPE	OCCUPANCY	SPRINKLERS	HEIGHT INCREASE: ALLOWABLE STORIES (3)	TOTAL ALLOWABLE	ACTUAL STORIES	ALLOWABLE HEIGHT (3)	ACTUAL HEIGHT	AREA INCREASE: ALLOWABLE AREA PER STORY (3)	FRONTAGE INCREASE: FRONTAGE (5) %	ALLOWABLE AREA PER STORY (NS) (5)	FRONTAGE (5) INCREASE	TOTAL ALLOWABLE AREA PER STORY (9)	MULTI-STORY (7): STORIES	INCREASE	TOTAL ALLOWABLE	ACTUAL AREA (8)	RATIO
A / M	V-B	A-3 (S1)	Yes	1	1	1	40'	30'	24000 SF	30%	6000 SF	1800 SF	25800 SF	1	0 SF	25800 SF	12912 SF	0.50
A / M	V-B	B (S1)	Yes	2	2	1	60'	30'	36000 SF	30%	9000 SF	2700 SF	38700 SF	1	0 SF	38700 SF	1109 SF	0.03
A / M	V-B	E (S1)	Yes	1	1	1	40'	30'	38000 SF	30%	9500 SF	2850 SF	40850 SF	1	0 SF	40850 SF	19377 SF	0.47
																	33398 SF	1.00
A-1	V-B	E (S1)	Yes	1	1	1	40'	30'	38000 SF	0%	0 SF	0 SF	38000 SF	1	0 SF	38000 SF	6411 SF	0.17
																	6411 SF	0.17
C	V-B	E (S1)	Yes	1	1	1	40'	25'	38000 SF	0%	0 SF	0 SF	38000 SF	1	0 SF	38000 SF	29461 SF	0.78
																	29461 SF	0.78
D	V-B	E (S1)	Yes	1	1	1	40'	25'	38000 SF	0%	0 SF	0 SF	38000 SF	1	0 SF	38000 SF	19767 SF	0.52
																	19767 SF	0.52



1 BUILDING AREA ANALYSIS
1" = 30'-0"

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

FOOTNOTES:
1. CBC TABLE 601 (Note e) FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS
2. CBC TABLE 1017.1 CORRIDOR FIRE-RESISTANCE RATING
3. CBC TABLE 503 ALLOWABLE HEIGHT AND BUILDING AREAS
4. CBC SECTION 504.2 AUTOMATIC SPRINKLER SYSTEM INCREASE
5. CBC SECTION 506.2 FRONTAGE INCREASE
6. CBC SECTION 506.3 AUTOMATIC SPRINKLER SYSTEM INCREASE
7. CBC SECTION 506.4.1 MIXED OCCUPANCIES
8. CBC SECTION 502.1 "AREA, BUILDING" DEFINED
9. CBC SECTION 508.3.3.3 SEPARATED OCCUPANCIES. ALLOWABLE HEIGHT. EACH OCCUPANCY SHALL COMPLY WITH THE HEIGHT LIMITATIONS BASED ON THE TYPE OF CONSTRUCTION OF THE BUILDING IN ACCORDANCE WITH SECTION 503.1.
10. CBC SECTION 506.1 AREA MODIFICATIONS PER EQUATION 5-1

TABLE 601 (TYPE V B) FIRE RESISTIVE RATINGS FOR BUILDING ELEMENTS

BUILDING ELEMENT	RATING (HOURS)
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS	
EXTERIOR	0
INTERIOR	0
NON BEARING WALLS AND PARTITIONS	
EXTERIOR (PER TABLE 602)	
10 < X < 30	0
X > 30	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

FRONTAGE INCREASE

BUILDING A / M:

I$_f$ = [760 / 1368 - .25] 30 / 30
I$_f$ = [.55 - .25] 1
I$_f$ = [.30] 1
I$_f$ = 30%

BUILDING AREA

BUILDING A/M

MIXED-OCCUPANCY,
SINGLE STORY

OCCUPANCY: E
A_t = 38,000
NS=9,500
I$_f$ = .3
A_a = 38,000+(9,500*.30)=
A_a = 40,850
ACTUAL = 19,375 SF

RATIO= .47 = 47%

OCCUPANCY: A-3
A_t = 24,000
NS = 6,000
I$_f$ = .3
A_a = 24,000+(6,000*.3)=
A_a = 25,800
ACTUAL = 12,402

RATIO= .48 = 48%

OCCUPANCY: B
A_t = 36,000
NS = 9,000
I$_f$ = .3
A_a = 36,000+(9,000*.3)=
A_a = 38,700
ACTUAL = 1,109

RATIO= .03 =3%

TOTAL RATIO = 98%

BUILDING A-1

SINGLE-OCCUPANCY,
SINGLE STORY

OCCUPANCY: E
A_t = 38,000
NS=9,500
I$_f$ = 0
A_a = At+(NSXIf) = 38,000+(9,500*.02)=
A_a =38,000 SF
ACTUAL = 6,411 SF

RATIO= .17 = 17%

BUILDING C:

BUILDING C

SINGLE-OCCUPANCY
SINGLE STORY

OCCUPANCY: E
A_t = 38,000
NS =9,500
I$_f$ = 0
A_a = At+(NSXIf) = 38,000+(9,500*.02)=
A_a =38,000 SF
ACTUAL = 35,110 SF

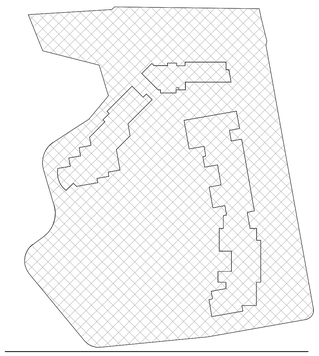
RATIO= .92 = 92%

BUILDING D

SINGLE-OCCUPANCY,
SINGLE STORY

OCCUPANCY: E
A_t = 38,000
NS=9,500
I$_f$ = 0
A_a = 38,000+(9,500*0)=
A_a = 38,000 SF
ACTUAL = 15,236 SF

RATIO= .4 = 40%



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ALL
BUILDING CODE ANALYSIS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
G0.3.1

2/24/2020 8:05:17 AM BIM 360://19009-00 Del Mar Heights ES/ARCH-BNDS-DMHS.rvt



1 SITE PLAN - ACCESS/SIGNAGE
1" = 30'-0"

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

KEYNOTES

ACCESSIBILITY NOTES

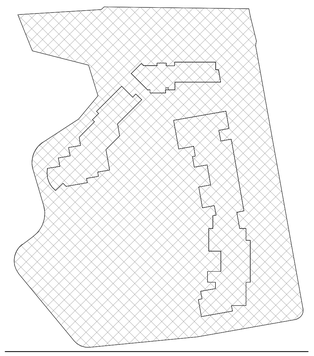
1. PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESS COMPLYING WITH THE FOLLOWING: CHANGES IN LEVEL UP TO 1/4" MAX. SHALL BE PERMITTED TO BE VERTICAL AND WITHOUT EDGE TREATMENT (11B-303.2). CHANGES IN LEVEL BTWEEN 1/4" AND 1/2" MAX. SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2 (11B-303.3). SURFACE SHALL BE STABLE, FIRM AND SLIP RESISTANT (11B-302.1). THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20 AND THE CROSS SLOPE SHALL NOT BE STEEPER THAN 1:48 (1B-403.3). THE CLEAR WIDTH OF WALKING SURFACES SHALL BE 48" (WITH EXCEPTIONS) (11B-403.5.1). OBJECTS WITH LEADING EDGES MORE THAN 27" AND NOT MORE THAN 80" ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4" MAXIMUM HORIZONTALLY IN THE THE CIRCULATON PATH (11B-307.2). CONTRACTOR AND ARCHITECT TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 11B.

2. FOR GRATINGS OR STRAINERS LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAY OR IN P.O.T. , THE MAXIMUM GRATE OR STRAINER OPENINGS SHALL NOT EXCEED 1/2" IN THE DIRECTION OF TRAFFIC FLOW.

3. MANEUVERING CLEARANCES AREA AT ALL ACCESSIBLE GATES SHALL HAVE 2% MAX. SLOPE IN ALL DIRECTIONS WITHIN DASHED BOUNDARY, PER CBC FIG. 11B-404.2.4.1.

LEGEND

- ACCESSIBLE PATH OF TRAVEL 4'-0" WIDE MIN. CONCRETE OR A.C. PAVED. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION ON MATERIAL, SLOPES AND ELEVATIONS.
- M W — MEN'S AND WOMEN'S RESTROOM LOCATIONS
- B G — BOY'S AND GIRL'S RESTROOM LOCATIONS
- S U — STAFF AND UNISEX RESTROOM LOCATIONS
- K — KINDERGARTEN RESTROOM LOCATION
- DF — DRINKING FOUNTAIN LOCATION
- E — ELEVATOR LOCATION
- AREA OF SAFE DISPERSAL
- AREA OF SAFE DISPERSAL - ACCESSIBLE
- 0 — BUILDING OCCUPANCY
- 0 — CUMULATIVE OCCUPANCY
- 0 — EXITING OCCUPANTS



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SITE
ACCESSIBILITY / SIGNAGE
SITE PLAN

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
G0.4.1

2/24/2020 6:05:26 AM BIM 360://19009-00 Del Mar Heights ES/ARCH-BNDS-DMHS.rvt



1 SITE PLAN - FIRE ACCESS
1" = 30'-0"

LOCAL FIRE AUTHORITY

DSA **810**

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1–3 below is to be provided for all project types indicated above. Information associated with items 4–7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the local fire authority (LFA) is only required when an alternate design means is being requested.

Page 1 of the completed form must be imaged onto the fire access site plan. When an alternate design/means is proposed, completed pages 1 *and* 2 are to be imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy 09-01.

PROJECT INFORMATION	
School District/Owner:	DEL MAR UNION SCHOOL DISTRICT
Project Name/School:	DEL MAR HEIGHTS ELEMENTARY SCHOOL
Project Address:	13555 BOQUITA DRIVE, DEL MAR, CA 92014

FIRE & LIFE SAFETY INFORMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☐		No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐		No ☐
3.	Is the project located within a designated fire hazard severity zone as established by Cal-Fire? *(If yes, indicate fire hazard zone classification below)*	Yes ☐		No ☐
	Refer to the following for fire hazard zone locations: www.fire.ca.gov/fire_prevention/fire_prevention_wildland_zones_maps	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.				
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.				
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.				
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.				
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name:	
LFA Review Official:	
Title:	Work Phone:
Work E-mail:	

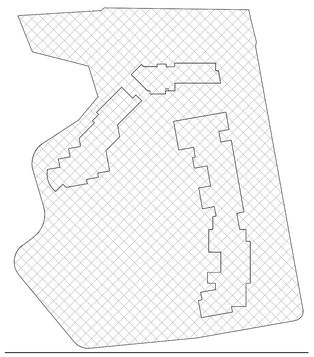
LFA Reviewer's Signature: _____ Date: _____

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

LEGEND

- 200' MAXIMUM HOSE PULL
- 300' HYDRANT COVERAGE RADIUS
- FIRE LANE
- EXTENT OF FIRE LANE QUALITY PAVING



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SITE
FIRE ACCESS SITE PLAN

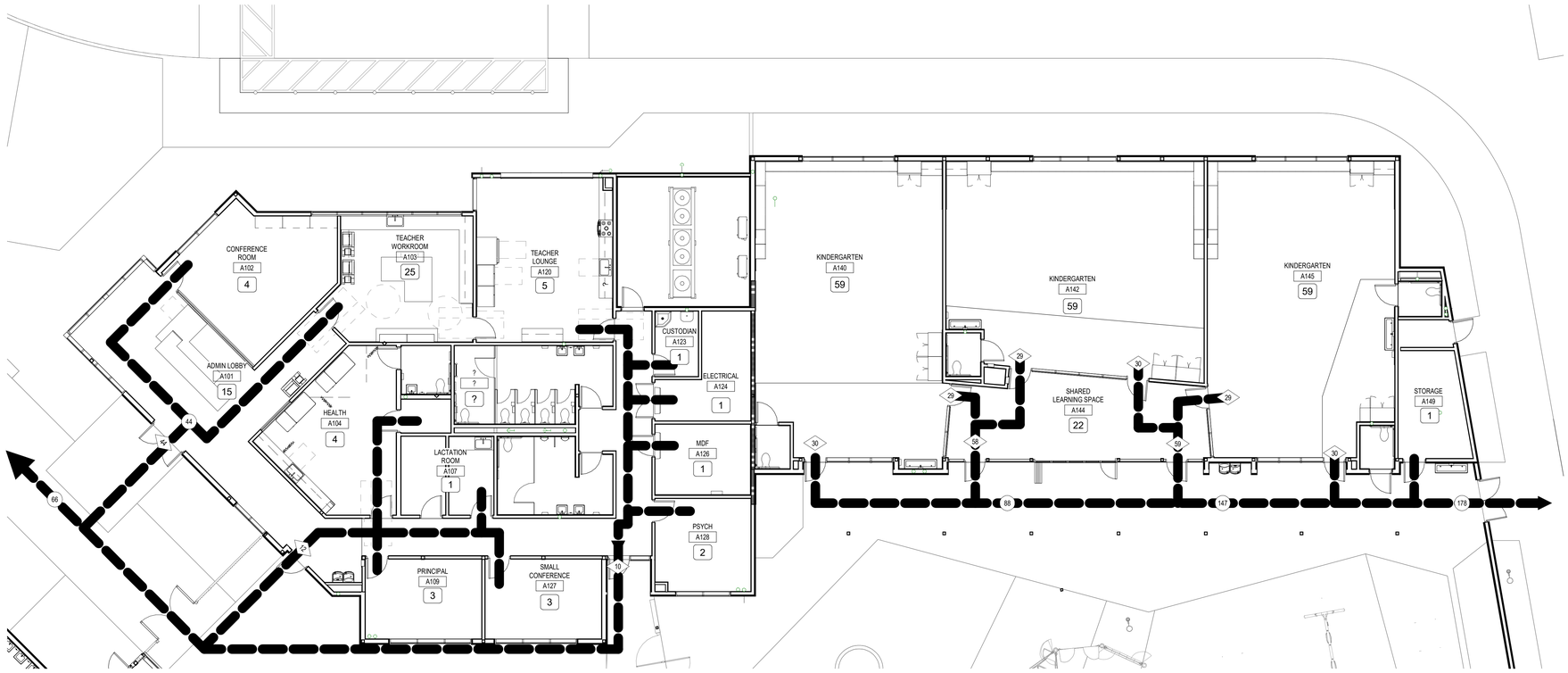
NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

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BLDG A - EXIT DOOR SCHEDULE								
NO.	SERVING ROOM	OCCUPANT LOAD	EXIT WIDTH FACTOR	EXIT WIDTH REQUIRED	EXIT WIDTH PROVIDED	REMARKS	Exit Door (Hide Column)	Building ID (Hide Column)
A101A	A101	44	0.2	8.8	72"	11	Yes	A
A101B	A101	12	0.2	2.4	36"	11	Yes	A
A108	A108	11	0.2	2.2	36"	11	Yes	A
A140A	A140	30	0.2	6	36"	11	Yes	A
A140B	A140	29	0.2	5.8	36"		Yes	A
A142A	A142	30	0.2	6	36"		Yes	A
A142B	A142	29	0.2	5.8	36"		Yes	A
A144A	A144	58	0.2	11.6	36"	11	Yes	A
A144B	A144	59	0.2	11.8	36"	11	Yes	A
A145	A145	30	0.2	6	36"	11	Yes	A
A145B	A145	29	0.2	5.8	36"		Yes	A



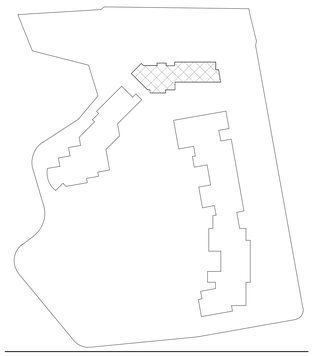
1 FLOOR PLAN - BUILDING EXIT ANALYSIS - BLDG A
1/8" = 1'-0"

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

LEGEND

- EXIT PATH OF TRAVEL
- ROOM NAME / 100 — ROOM NAME / ROOM NUMBER
- 0 — ROOM OCCUPANCY
- 0 — CUMULATIVE OCCUPANCY
- 0 — EXITING OCCUPANTS
- X — EXIT DOOR NUMBER



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BUILDING A
BUILDING EXIT ANALYSIS

NO. DATE ISSUE

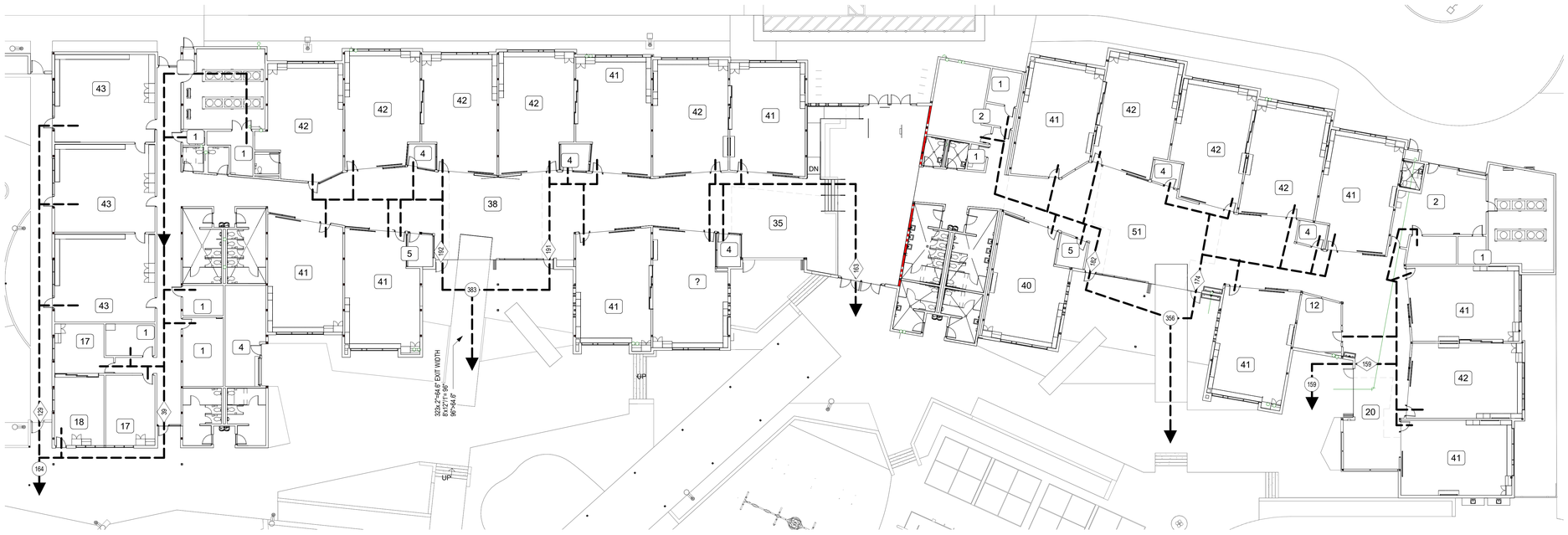
PROJECT NO: 19009
DATE: 02/28/2020

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BLDG C - EXIT DOOR SCHEDULE

NO.	SERVING ROOM	OCCUPANT LOAD	EXIT WIDTH FACTOR	EXIT WIDTH REQUIRED	EXIT WIDTH PROVIDED	REMARKS	Exit Door (Hide Column)	Building ID (Hide Column)
C106			0.15		36"	11	Yes	C
C108A			0.15		36"	11	Yes	C
C109B			0.15		36"	11	Yes	C
C111					36"	11	Yes	C
C121			0.15		36"	11	Yes	C
C122			0.15		36"	11	Yes	C
C208			0.15		36"		Yes	C
C209			0.15		36"		Yes	C
C210			0.15		36"	11	Yes	C
C211			0.15		36"	11	Yes	C



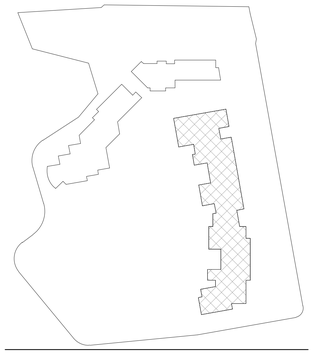
1 FIRST FLOOR - BUILDING EXIT ANALYSIS - C - 2
1/16" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

LEGEND

- EXIT PATH OF TRAVEL
- ROOM NAME / ROOM NUMBER (ROOM NAME / 100)
- ROOM OCCUPANCY (0)
- CUMULATIVE OCCUPANCY (0)
- EXITING OCCUPANTS (0)
- EXIT DOOR NUMBER (X)



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BUILDING C
BUILDING EXIT ANALYSIS

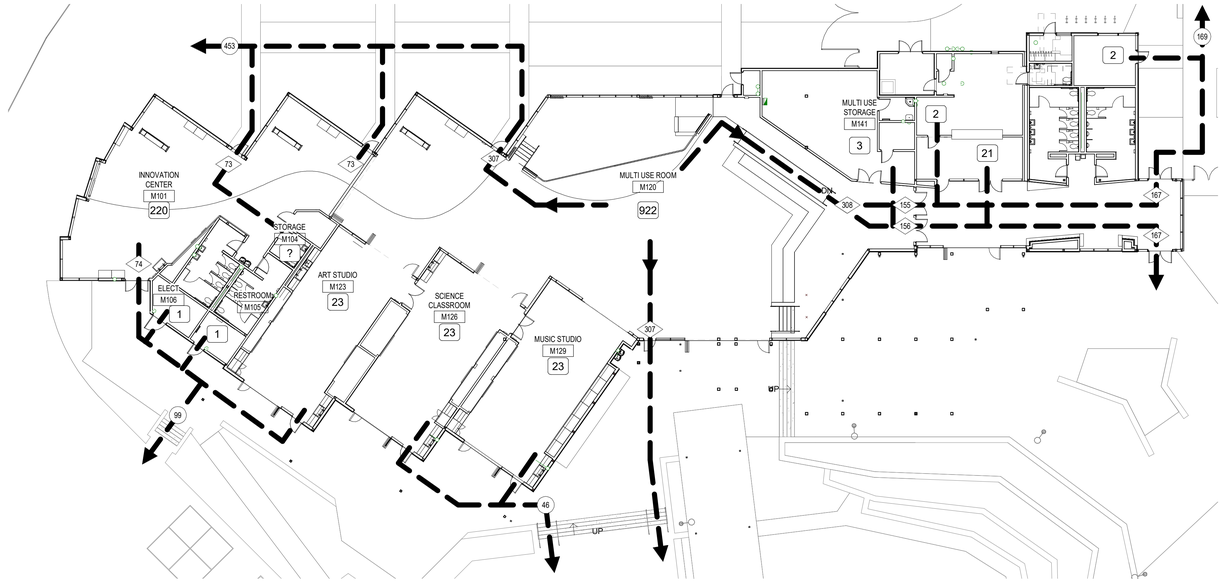
NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

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BLDG M - EXIT DOOR SCHEDULE								
NO.	SERVING ROOM	OCCUPANT LOAD	EXIT WIDTH FACTOR	EXIT WIDTH REQUIRED	EXIT WIDTH PROVIDED	REMARKS	Exit Door (Hide Column)	Building ID (Hide Column)



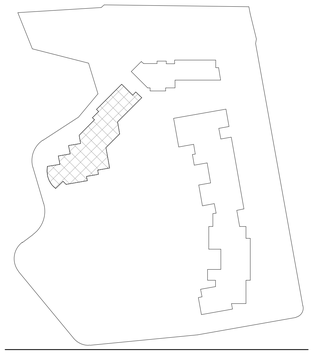
1 FLOOR PLAN - BUILDING EXIT ANALYSIS - BLDG M
1/16" = 1'-0"

LEGEND

- EXIT PATH OF TRAVEL
- ROOM NAME / ROOM NUMBER (ROOM NAME / 100)
- ROOM OCCUPANCY (0)
- CUMULATIVE OCCUPANCY (0)
- EXITING OCCUPANTS (0)
- EXIT DOOR NUMBER (X)

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD



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BUILDING M
BUILDING EXIT ANALYSIS

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DATE: 02/28/2020

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Del Mar Heights Elementary School

Del Mar Union School District

	Quantity	Area	Net Area Sub Total	# TS	State Loading	State Capacity
ADMINISTRATION PROGRAM						
Principal	1	200	200			
Reception / Office Assist. / Admin Assist.	1	500	500			
Health / Health Aide Tech	1	250	250			
School Nurse	1	120	120			
Health Toilet	1	65	65			
Health Storage	1	50	65		500	
Student Records Storage	1	240	240			
Parent Resource Center (PTA)	1	200	200			
Work Room	1	350	350			
Teacher Lounge / Prep.	1	500	500			
Adult Restrooms	2	200	400			
Psych	1	200	200			
Conference Room, Main	1	400	400			
Sub-Total			**3,490**			
CLASSROOMS						
Classroom grades 1-6	18	960	17,280	18	25	450
Collaboration Space (1 ea. per 18 CR and 4 Maker)	22	200	4,400			
Small Group Spaces	12	64	768			
STEAM+ (Science Lab, Art Studio, Music Studio)	3	1100	3,300	4	25	100
STEAM+ Storage	3	200	600			
Central Classroom Storage	3	200	600			
Kindergarten	3	1150	3,450	3	25	75
Collaborative Space	3	1000	3,000			
Kinder Restrooms (2 per CR, 1 outside)	7	50	350			
PE (Classroom, Storage)	1	500	500			
Sub-Total			**34,248**			

Del Mar Heights Elementary School

Del Mar Union School District

	Quantity	Area	Net Area Sub Total	# TS	State Loading	State Capacity
SPECIAL PROGRAMS						
SDC Classrooms	2	960	1,920	3	13	39
SDC Restrooms	2	80	160			
RSP Classroom	1	960	960	1	9	9
Speech/OT/APE	1	960	960			
After School Program Classrooms	3	960	2,880	3		
Sub-Total			**6,880**			
FOOD SERVICE						
Warming Kitchen	1	600	600			
Child Nutrition Services Assistant	1	100	100			
Servery	1	500	500			
Storage	1	100	100			
Staff Restroom/Lockers	1	50	50			
Custodial	1	50	50			
Sub-Total			**1,400**			

Del Mar Heights Elementary School

Del Mar Union School District

	Quantity	Area	Net Area Sub Total	# TS	State Loading	State Capacity
MULTI PURPOSE / INNOVATION CENTER						
Multi-Use Room	1	5500	5,500			
MUR Lobby	1	1000	1,000			
Storage	1	800	800			
Stage/Platform	1	1000	1,000			
Restrooms	2	300	600			
Custodial	1	50	50			
I.C. & Tech. Lab	1	3000	3,000			
Circulation Desk	1	200	200			
Quiet Rooms	2	100	200			
Storage	1	300	300			
Sub-Total			**8,950**			
SUPPORT						
MDF	1	200	200			
IDF	5	80	400			
Main Electrical Room	1	200	200			
Electrical Room	4	50	200			
Maintenance/Grounds/Custodial Storage/2 Desks	1	800	800			
Custodial	4	50	200			
Student Restrooms	10	200	2,000			
Staff Restrooms	4	75	300			
Sub-Total			**4,300**			
# OF TEACHING STATIONS				**32**		
NET ASSIGNABLE AREA			**59,268**			
Grossing Factor 15.00%			8,890			
STUDENT CAPACITY (OPSC)						**673**
TOTAL GROSS AREA			**68,158**			
K-5 Lunch Shelter	1	2000	2,000			
Outdoor Learning Studio	3	1500	4,500			
Grounds Outdoor Yard	1	1000	1,000			
Maintenance Covered	1	200	200			

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

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BUILDING PROGRAM

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

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Attachment 1

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE

Division of the State Architect – Structural Safety (DSA-SS)
(CCR, Title 24, Part 11)

APPLICATION MATRIX	Mandatory Chapter 5
DIVISION 5.1 - PLANNING AND DESIGN	
SITE DEVELOPMENT	
5.106.4.2 Bicycle parking. For public schools and community colleges comply with Sections 5.106.4.2.1 and 5.106.4.2.2	
5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.	☐
5.106.4.2.2 Staff bicycle parking. Provide permanent secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable parking facilities shall be convenient from the street or staff parking area and shall meet one of the following: 1. Covered, lockable enclosures with permanently anchored racks for bicycles; 2. Lockable bicycle rooms with permanently anchored racks; or 3. Lockable, permanently anchored bicycle lockers.	☐
5.106.8 Light pollution reduction. Outdoor lighting systems shall be designed and installed to comply with the following: 1. The minimum requirements in the *California Energy Code* for Lighting Zones 1-4 as defined in Chapter 10 of the *California Administrative Code*; and 2. Backlight, Uplight and Glare (BUG) ratings as defined in IESNA TM-15-11; and 3. Allowable BUG ratings not exceeding those shown in Table 5.106.8, or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent. **Exceptions:** 1. Luminaires that qualify as exceptions in Section 140.7 of the *California Energy Code*. 2. Emergency lighting. 3. Building facade meeting the requirements in Table 140.7-B of the *California Energy Code*, Part 6. 4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.	☐

APPLICATION MATRIX	Mandatory Chapter 5
Note: See also *California Building Code*, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways. **Table 5.106.8 Maximum Allowable Backlight, Uplight, and Glare (BUG) Ratings**	
5.106.10 Grading and paving. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following: 1. Swales. 2. Water collection and disposal systems. 3. French drains. 4. Water retention gardens. 5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.	☐
DIVISION 5.2 - ENERGY EFFICIENCY	
GENERAL	
5.201.1 California Energy Code. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards. New construction, additions, and alterations must comply with the *California Energy Code*. Refer to *California Energy Code* Table 100.0-A	☐
DIVISION 5.3 - WATER EFFICIENCY AND CONSERVATION	
INDOOR WATER USE	
5.303.3 Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:	
5.303.3.1 Water closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specifications for Tank-Type Toilets. **Note**: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.	☐
5.303.3.2 Urinals.	
5.303.3.2.1 Wall mounted Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush.	☐
5.303.3.2.2 Floor mounted urinals. The effective flush volume of floor mounted or other urinals shall not exceed 0.5 gallons per flush.	☐

APPLICATION MATRIX	Mandatory Chapter 5
5.303.3.3 Showerheads	
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 2.0 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specifications for showerheads.	☐
5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gallons per minute at 80 psi, or the showerhead shall be designed to allow only one shower outlet to be in operation at one time. **Note**: A hand-held shower shall be considered a showerhead.	☐
5.303.3.4 Faucets and fountains.	
5.303.3.4.1 Non-residential lavatory faucets. Non-residential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.	☐
5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.	☐
5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi].	☐
5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.	☐
5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per cycle/20 [rim space (inches) at 60 psi]. **Note**: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.	☐
5.303.6 Standards for plumbing fixtures and fittings. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code**.**	☐

APPLICATION MATRIX	Mandatory Chapter 5
OUTDOOR WATER USE	
5.304.6 Outdoor potable water use in landscape areas. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35. **Exception**: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.	
5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.	☐
5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.	☐
DIVISION 5.4 - MATERIAL CONSERVATION AND RESOURCE EFFICIENCY	
WATER RESISTANCE AND MOISTURE MANAGEMENT	
5.407.1 Weather protection. Provide a weather-resistant exterior wall and foundation envelope as required by *California Building Code*, Section 1403.2 (Weather Protection) and *California Energy Code* Section 150. (Mandatory Features and Devices), manufacturer's installation instructions, or local ordinance, whichever is more stringent.	☐
5.407.2 Moisture control. Employ moisture control measures by the following methods:	
5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.	☐
5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:	
5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following: 1. An installed awning at least four feet in depth. 2. The door is protected by a roof overhang at least four feet in depth. 3. The door is recessed at least four feet. 4. Other methods which provide equivalent protection.	☐
5.407.2.2.2 Flashing. Installed flashing integrated with a drainage plane.	☐

APPLICATION MATRIX	Mandatory Chapter 5
DIVISION 5.4 - MATERIAL CONSERVATION AND RESOURCE EFFICIENCY	
CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING	
5.408.1 Construction waste management. Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.	
5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance that is more stringent, submit a construction waste management plant that: 1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale. 2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream). 3. Identifies diversion facilities where construction and demolition waste material collected will be taken. 4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.	☐
5.408.1.2 Waste management company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section. **Note:** The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company. **Exceptions to Sections 5.408.1.1 and 5.408.1.2:** 1. Excavated soil and land-clearing debris. 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist. 3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.	☐
5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65 percent minimum requirement as approved by the enforcing agency.	☐

APPLICATION MATRIX	Mandatory Chapter 5
BUILDING MAINTENANCE AND OPERATION	
5.410.1 Recycling by occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive. **Exception:** Rural jurisdictions that meet and apply for the exemption of Public Resources Code 42649.82 (a)(2)(A) et seq. will also be exempt from the organics waste portion of this section.	☐
5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act). **Note:** A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's website.	☐
DIVISION 5.5 ENVIRONMENTAL QUALITY	
POLLUTANT CONTROL	
5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.	☐
5.504.4 Finish material pollutant control. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6. **5.504.4.1 Adhesives, sealants, and caulks.** Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards: 1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene, and trichloroethylene), except for aerosol products as specified in Subsection 2, below. 2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507. **TABLE 5.504.4.1 - ADHESIVE VOC LIMIT; TABLE 5.504.4.2 - SEALANT VOC LIMIT**	☐

APPLICATION MATRIX	Mandatory Chapter 5
5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3, shall be determined by classifying the coating as a Flat, Nonflat, or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat, or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply. **TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS**	☐
5.504.4.3.1 Aerosol paints and coatings. Aerosol paints and coatings shall meet the PWMR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.	☐
5.504.4.4 Carpet systems. All carpet installed in the building interior shall meet at least one of the following testing and product requirements: 1. Carpet and Rug Institute's Green Label Plus Program. 2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version1.1, February 2010 (also known as CDPH Standard Method V1.1. or *Specification 01350*) 3. NSF/ANSI 140 at the Gold level or higher. 4. Scientific Certifications Systems Sustainable Choice; or 5. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria Interpretation for EQ 7.0 and EQ 7.1 (formerly EQ 2.2) dated July 2012 and listed in the CHPS High Performance Product Database.	☐
5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.	☐
5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.	☐
5.504.4.5 Composite wood products. Hardwood plywood, particleboard, and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted by the ATCM must meet the specified emission limits as shown in Table 5.504.4.5. **TABLE 5.504.4.5 - FORMALDEHYDE LIMITS**	☐

APPLICATION MATRIX	Mandatory Chapter 5
5.504.4.6 Resilient flooring systems. For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following : 1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program; 2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010; 3. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria Interpretation for EQ 7.0 and EQ 7.1 (formerly EQ 2.2) dated July 2012 and listed in the CHPS High Performance Product Database; or 4. Products certified under the UL GREENGUARD Gold (formerly the Greenguard Children & Schools program).	☐
5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air prior to occupancy that provides at least a Minimum Efficiency Reporting Value (MERV) of 8. MERV 8 filters shall be installed prior to occupancy and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual. **Exceptions:** 1. An ASHRAE 10-percent to 15-percent efficiency filter shall be permitted for an HVAC unit meeting the 2016 *California Energy Code* having 60,000 Btu/h or less capacity per fan coil, if the energy use of the air delivery system is 0.4 W/cfm or less at the design air flow. 2. Existing mechanical equipment.	☐
5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.	☐
INDOOR MOISTURE CONTROL	
5.505.1 Indoor moisture control. Buildings shall meet or exceed the provisions of *California Building Code*, CCR, Title 24, Part 2, Sections 1203 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures not applicable to low-rise residential occupancies, see Section 5.407.2 of this code.	☐
INDOOR AIR QUALITY	
5.506.1 Outside air delivery. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the 2016 *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.	☐

APPLICATION MATRIX	Mandatory Chapter 5
ENVIRONMENTAL COMFORT	
5.507.4 Acoustical control. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413 or Outdoor–Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2. **Exception:** Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings. **Exception: [DSA-SS]** For public schools and community colleges, the requirement of this section and all subsections apply only to new construction.	
5.507.4.1 Exteriors noise transmission prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations: 1. Within the 65 CNEL noise contour of an airport. **Exceptions:** 1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan. 2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element. 2. Within the 65 CNEL or L_{dn} noise contour of a freeway or expressway railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.	☐
5.507.4.1.1 Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dBL_{eq}-1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).	☐
5.507.4.2 Performance method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (L_{eq}-1Hr) of 50 dBA in occupied areas during any hour of operation.	☐
5.507.4.2.1 Site features. Exterior features such as sound wall or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.	☐

APPLICATION MATRIX	Mandatory Chapter 5
5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40. **Note**: Examples of assemblies and their various STC rating may be found at the California Office of Noise Control website.	☐
OUTDOOR AIR QUALITY	
5.508.1 Ozone depletion and greenhouse gas reductions. Install HVAC and refrigeration and fire suppression equipment shall comply with 5.508.1.1 and 5.508.1.2.	
5.508.1.1 Chlorofluorocarbons (CFCs) Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.	☐
5.508.1.2 Halons Install HVAC,refrigeration and fire suppression equipment that do not contain Halons.	☐

LEGEND-CAL GREEN
6" = 1'-0"

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

BakerNowicki design studio
731 Ninth Avenue, Suite A, San Diego, California 92101
619.795.2450
www.bndesignstudio.com

CAL GREEN REQUIREMENTS

NO. DATE ISSUE

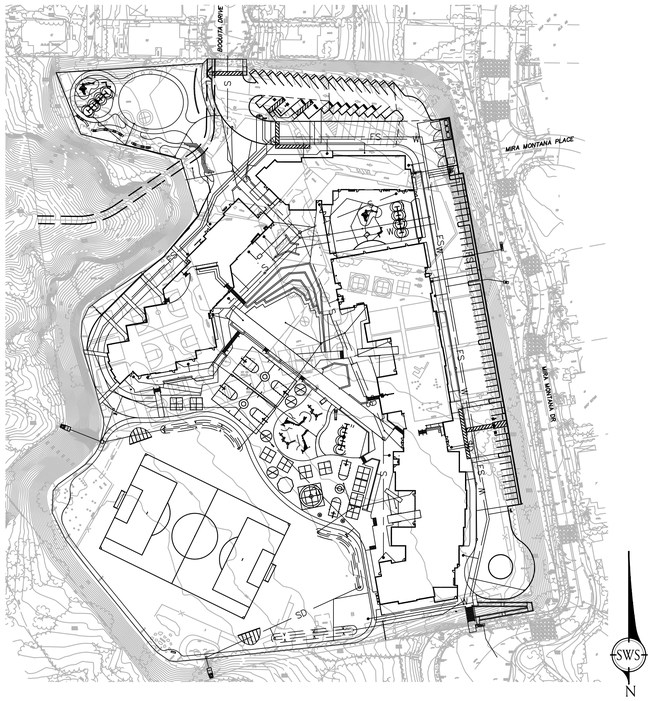
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DATE: 02/28/2020

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GRADING PLANS FOR:

DEL MAR HEIGHTS ELEMENTARY SCHOOL
INCREMENT 2 - PRECISE GRADING



KEY MAP

N.T.S.

SWPPP NOTES

1. DISCHARGING SEDIMENT-LADEN WATER WHICH WILL CAUSE OR CONTRIBUTE TO AN EXCEEDANCE OF THE APPLICABLE RWQCB'S BASIN PLANS FROM A DEWATERING SITE OR SEDIMENT BASIN/TRAP INTO ANY RECEIVING WATER OR STORM DRAIN WITHOUT FILTRATION OR EQUIVALENT TREATMENT IS PROHIBITED.

2. THE DISCHARGER SHALL AMEND THE SWPPP WHENEVER THERE IS A CHANGE IN CONSTRUCTION OR OPERATIONS, WHICH MAY AFFECT THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS, GROUNDWATER OR A MUNICIPAL STORM DRAIN SYSTEM. THE SWPPP SHALL ALSO BE AMENDED IF THE DISCHARGER VIOLATES ANY CONDITION OF THE GENERAL PERMIT OR HAS NOT ACHIEVED THE GENERAL OBJECTIVE OF REDUCING OR ELIMINATING POLLUTANTS IN STORM WATER DISCHARGES. ALL AMENDMENTS SHOULD BE DATED AND DIRECTLY ATTACHED TO THE SWPPP.

3. TEMPORARY ON-SITE DRAINAGE TO CARRY CONCENTRATED FLOW SHALL BE SELECTED TO COMPLY WITH CITY REQUIREMENTS TO CONTROL EROSION, TO RETURN FLOWS TO THEIR NATURAL DRAINAGE COURSES, AND TO PREVENT DAMAGE TO DOWNSTREAM PROPERTIES.

4. DISCHARGES ORIGINATING FROM OFF-SITE, WHICH FLOW ACROSS OR THROUGH AREAS DISTURBED BY CONSTRUCTION THAT MAY CONTAIN POLLUTANTS, SHOULD BE REPORTED TO THE RWQCB.

5. DISCHARGERS WHO ARE PRESENTLY COVERED UNDER NPDES GENERAL PERMIT NO. CAS000002 FOR DISCHARGE OF STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY MAY SUBMIT A NOTICE OF TERMINATION WHEN THEY MEET ONE OF THE FOLLOWING CRITERIA.

   A. THE CONSTRUCTION PROJECT HAS BEEN COMPLETED AND THE FOLLOWING CONDITIONS HAVE BEEN MET: ALL ELEMENTS OF THE STORM WATER POLLUTION PREVENTION PLAN HAVE BEEN COMPLETED; CONSTRUCTION MATERIALS AND EQUIPMENT MAINTENANCE WASTE HAVE BEEN DISPOSED OF PROPERLY; THE SITE IS IN COMPLIANCE WITH ALL LOCAL STORM WATER MANAGEMENT REQUIREMENTS INCLUDING EROSION/SEDIMENT CONTROL REQUIREMENTS AND THE APPROPRIATE USE PERMITS HAVE BEEN OBTAINED; AND A POST-CONSTRUCTION STORM WATER OPERATION AND MANAGEMENT PLAN IS IN PLACE.

   B. CONSTRUCTION ACTIVITIES HAVE BEEN SUSPENDED, EITHER TEMPORARILY OR INDEFINITELY AND THE FOLLOWING CONDITIONS HAVE BEEN MET: ALL ELEMENTS OF THE STORM WATER POLLUTION PREVENTION PLAN HAVE BEEN COMPLETED; CONSTRUCTION MATERIALS AND EQUIPMENT MAINTENANCE WASTE HAVE BEEN DISPOSED OF PROPERLY; ALL DENUDED AREAS AND OTHER AREAS OF POTENTIAL EROSION ARE STABILIZED; AN OPERATION AND MAINTENANCE PLAN FOR EROSION AND SEDIMENT CONTROL IS IN PLACE; AND THE SITE IS IN COMPLIANCE WITH ALL LOCAL STORM WATER MANAGEMENT REQUIREMENTS INCLUDING EROSION/SEDIMENT CONTROL REQUIREMENTS. THE DATE CONSTRUCTION ACTIVITIES WERE SUSPENDED, AND THE EXPECTED DATE CONSTRUCTION ACTIVITIES WILL START UP AGAIN SHOULD BE PROVIDED.

   C. CONSTRUCTION SITE CAN NOT DISCHARGE STORM WATER TO WATERS OF THE UNITED STATES. PLEASE INDICATE IF ALL STORM WATER IS RETAINED ON SITE OR IF STORM WATER IS COLLECTED OFFSITE.

   D. DISCHARGE OF CONSTRUCTION STORM WATER FROM THE SITE IS NOW SUBJECT TO ANOTHER NPDES GENERAL PERMIT OR AN INDIVIDUAL NPDES PERMIT. THE GENERAL PERMIT OR INDIVIDUAL PERMIT NPDES NUMBER AND DATE COVERAGE BEGAN SHOULD BE PROVIDED.

   E. THERE IS A NEW OWNER OF THE UNIDENTIFIED SITE. IF OWNERSHIP OR OPERATION OF THE FACILITY HAS BEEN TRANSFERRED THEN THE PREVIOUS OWNER MUST SUBMIT A NOTICE OF TERMINATION AND THE NEW OWNER MUST SUBMIT A NOTICE OF INTENT FOR COVERAGE UNDER THE GENERAL PERMIT. THE DATE OF TRANSFER AND INFORMATION ON THE NEW OWNER SHOULD BE PROVIDED. NOTE THAT THE PREVIOUS OWNER MAY BE LIABLE FOR DISCHARGE FROM THE SITE UNTIL THE NEW OWNER FILES A NOTICE OF INTENT FOR COVERAGE UNDER THE GENERAL PERMIT.

6. SEDIMENT CONTROL BMP'S ARE REQUIRED AT APPROPRIATE LOCATIONS ALONG THE SITE PERIMETER AND AT ALL OPERATIONAL INTERNAL INLETS TO THE STORM DRAIN SYSTEM AT ALL TIMES.

7. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ADEQUATE SEDIMENT CONTROL MATERIALS ARE AVAILABLE TO CONTROL SEDIMENT DISCHARGES AT THE DOWNGRADE PERIMETER AND OPERATIONAL INLETS (WEATHER AND STORM PREDICTIONS CAN BE OBTAINED BY CALLING THE NATIONAL WEATHER SERVICE AT (858) 675-8700 OR BY VISITING THE NATIONAL WEATHER SERVICE WEB THE AT HTTP://WWW.WRH.NOAA.GOV/SGX FOR WEATHER INFORMATION AND CURRENT SATELLITE/RADAR FEEDS).

8. THE OUTLETS OF ALL SEDIMENT BASINS, TRAPS, AND LOCATIONS OF ARTIFICIALLY CONCENTRATED FLOW SHALL BE PROVIDED WITH OUTLET PROTECTION TO PREVENT EROSION AND SCOUR.

9. INSPECTIONS SHALL BE PERFORMED BEFORE AND AFTER STORM EVENTS AND ONCE EACH 24-HOUR PERIOD DURING EXTENDED STORM EVENTS TO IDENTIFY BMP EFFECTIVENESS AND IMPLEMENT REPAIRS OR DESIGN CHANGES AS SOON AS FEASIBLE, DEPENDING ON FIELD CONDITIONS. EQUIPMENT, MATERIALS AND WORKERS MUST BE AVAILABLE FOR RAPID RESPONSE TO FAILURES AND EMERGENCIES. ALL CORRECTIVE MAINTENANCE TO BMP'S SHALL BE PERFORMED AS SOON AS POSSIBLE AFTER THE CONCLUSION OF EACH STORM, DEPENDING UPON WORKER SAFETY.

10. FOR EACH INSPECTION, A QUALIFIED PERSON SHALL COMPLETE AN INSPECTION CHECKLIST CONTAINING THE FOLLOWING MINIMUM INFORMATION: INSPECTION DATE, WEATHER INFORMATION (BEGINNING/END OF STORM EVENT, DURATION, TIME SINCE LAST STORM, APPROXIMATE RAINFALL IN INCHES); DESCRIPTION OF INADEQUATE BMP'S, LIST OF OBSERVATIONS OF ALL BMP'S AND VISIBLE INSPECTION OF OUTFALLS, DISCHARGE POINTS, DOWNSTREAM LOCATIONS, AND PROJECTED REQUIRED MAINTENANCE ACTIVITIES, CORRECTIVE ACTIONS REQUIRED, INCLUDING CHANGES TO THE SWPPP AND IMPLEMENTATION DATES, INSPECTOR'S NAME, TITLE, SIGNATURE, AND QUALIFICATIONS.

11. INDIVIDUALS RESPONSIBLE FOR SWPPP, IMPLEMENTATION, AND PERMIT COMPLIANCE SHALL BE APPROPRIATELY TRAINED. THIS INCLUDES THOSE PERSONNEL RESPONSIBLE FOR INSTALLATION, INSPECTION, MAINTENANCE, AND REPAIR OF BMP'S. THOSE RESPONSIBLE FOR OVERSEEING, REVISING, AND AMENDING THE SWPPP SHALL ALSO DOCUMENT THEIR TRAINING. THE QUALIFIED PERSON SHALL ATTEND THE PRE-CONSTRUCTION MEETING. THE QUALIFIED PERSON SHALL HAVE KNOWLEDGE AND TRAINING OF THE INTENT AND ENFORCEMENT OF SWPPP'S AND BMP'S AND BE PROPERLY TRAINED TO CONDUCT INSPECTIONS AND PREPARE REPORTS OF THE CONSTRUCTION SITE.

12. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE SWPPP AT THE CONSTRUCTION SITE, WHICH SHALL BE PROVIDED, UPON REQUEST, TO THE RWQCB OR AGENCY PERSONNEL. THE SWPPP IS CONSIDERED A REPORT THAT SHALL BE AVAILABLE TO THE PUBLIC BY THE RETAINED RWQCB UNDER SECTION 308(B) OF THE CLEAN WATER ACT.

13. RECORDS OF ALL INSPECTIONS, COMPLIANCE CERTIFICATIONS, NONCOMPLIANCE REPORTING, SWPPP AND ANY OTHER DOCUMENTS GENERATED AS PART OF SWPPP, MUST BE FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE GENERATED.

14. A CONCRETE WASHOUT SHALL BE INSTALLED FOR ALL PROJECTS THAT PROPOSE CONCRETE TO BE MIXED ON SITE OR DELIVERED FROM A BATCH PLANT. THE CONCRETE WASHOUT SHALL BE LOCATED A MINIMUM OF 50 FEET FROM ANY DRAINAGE INFRASTRUCTURE OR NATURAL DRAINAGE FEATURES OR WATER BODIES AND INCORPORATE AN IMPERMEABLE LINER (6 MIL MIN) TO CONTAIN THE REQUIRED VOLUME. ALL DRIED CONCRETE WASTE SHALL BE BROKEN INTO MANAGEABLE PIECES AND DISPOSED OF IN A PROPER MANNER. THE CONTRACTOR OR QUALIFIED PERSON SHALL LOCATE CONCRETE WASHOUTS IN THIS PRESCRIBED MANNER AS CONSTRUCTION PROGRESSES.

15. THE QUALIFIED PERSON SHALL CONDUCT REGULAR INSPECTIONS OF THE PROJECT SITE IN ACCORDANCE WITH RECOMMENDATIONS OUTLINED IN THE SWPPP. EACH INSPECTION SHALL BE DOCUMENTED IN THE FORM OF WRITTEN REPORTS RETAINED ON-SITE. ALL REPORTS SHALL BE MADE AVAILABLE TO AGENCY PERSONNEL AND RWQCB REPRESENTATIVES UPON REQUEST.

16. THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER AND SEWER UTILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

17. "THE PERMITTEE OR DESIGNEE SHALL PROVIDE EVIDENCE OF COVERAGE UNDER THE GENERAL CONSTRUCTION NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT, IN THE FORM OF A NOTICE OF INTENT (NOI) FILED WITH THE STATE WATER RESOURCES CONTROL BOARD, PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMITS."

18. SEDIMENT AND EROSION CONTROLS MAY BE REMOVED ONLY WHEN CONTRIBUTORY UPSTREAM AREAS BECOME STABILIZED OR ARE MANAGED UPSTREAM (I.E., SINGLE-LOT SEDIMENT CONTROLS) AND AS LONG AS SEDIMENT LADEN RUNOFF WILL NOT DISCHARGE FROM THE SITE.

19. WHEN FUTURE WORK BY THE DEVELOPER NOT SHOWN ON THIS PLAN IS TO BE PERFORMED, THE SWPPP SHALL BE AMENDED TO INCLUDE SAID WORK AND ANY ADDITIONAL WATER QUALITY CONTROL MEASURES REQUIRED.

20. WHEN OWNERSHIP CHANGES FOR PORTIONS OF THE SITE OR THE LIMITS OR NATURE WORK ARE ALTERED, THE DEVELOPER SHALL FILE A CHANGE OF INFORMATION (COI) OR A REVISED NOTICE OF INTENT (NOI), RESPECTIVELY, WITH THE RWQCB AND SWRCB, RESPECTIVELY.

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, A LAND SURVEYOR SHALL REPLACE SUCH MONUMENTS WITH APPROPRIATE MONUMENTS. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.

2. CONTRACTOR TO VERIFY EXACT PERIMETER OF DEMOLITION AND AREA OF WORK FOR THE PROJECT. AREA SHOWN IS APPROXIMATE.

GRADING NOTES

1. ALL GRADING SHALL BE DONE UNDER OBSERVATION AND TESTING BY A QUALIFIED CIVIL ENGINEER OR GEOTECHNICAL ENGINEER AND, IF REQUIRED, BOTH A QUALIFIED PROFESSIONAL CIVIL ENGINEER OR GEOTECHNICAL ENGINEER AND AN ENGINEERING GEOLOGIST. ALL GRADING MUST BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL ORDINANCE.

2. PROPOSED BUILDING PADS, STRUCTURAL IMPROVEMENT AREAS, AND AREAS TO RECEIVE FILL SHOULD BE CLEARED OF ANY DELETERIOUS MATERIAL, VEGETATION, ASPHALT, CONCRETE AND DEBRIS PRIOR TO COMMENCING GRADING. ANY ORGANIC OR UNSUITABLE MATERIAL GENERATED SHOULD BE EXPORTED FROM THE SITE. THE REMOVAL OF UNSUITABLE MATERIALS SHOULD BE OBSERVED BY THE GEOTECHNICAL CONSULTANT TO EVALUATE THE COMPETENCY OF THE EXPOSED MATERIALS FOR SUPPORT OF STRUCTURAL AND FILL LOADS.

3. BRUSH AND TREES SHALL BE REMOVED ONLY WITHIN THE AREA TO BE GRADED. WHEN TREES ARE REMOVED, THE ROOT SYSTEM SHALL ALSO BE REMOVED AND THE RESULTING EXCAVATION FILLED WITH PROPERLY COMPACTED FILL SOILS.

4. ANY MAN-MADE STRUCTURES OR IMPROVEMENTS WITHIN THE GRADING LIMITS, THAT ARE NOT TO BE SAVED FOR FUTURE USE, SHOULD BE DEMOLISHED AND LEGALLY DISPOSED OFF-SITE. SUBSURFACE IMPROVEMENTS OR OBSTRUCTIONS THAT ARE TO BE REMOVED SHOULD BE EXCAVATED AND HAULED OFF-SITE. THE RESULTING EXCAVATIONS SHOULD BE BACKFILLED AND COMPACTED. MAN-MADE IMPROVEMENTS TO BE SAVED SHOULD BE PROTECTED FROM DAMAGE BY THE CONTRACTOR.

5. REMEDIAL GRADING MAY BE NECESSARY TO REMOVE COMPRESSIBLE SOILS BENEATH STRUCTURES OR STRUCTURAL FILLS, BENEATH EXTERIOR FLATWORK AND PAVEMENT AREAS, OR WHEREVER THE EXISTING SOILS ARE DISTURBED DUE TO DEMOLITION OF EXISTING STRUCTURES OR IMPROVEMENTS. REMEDIAL GRADING SHOULD CONSIST OF COMPLETE REMOVAL OF COMPRESSIBLE SOILS UNTIL COMPETENT SOILS ARE EXPOSED. REMEDIAL EXCAVATIONS SHOULD INCLUDE ALL AREAS THAT WILL SUPPORT STRUCTURES, IMPROVEMENTS OR NEW FILLS. EXCAVATION BOTTOMS SHOULD BE OBSERVED BY THE GEOTECHNICAL ENGINEER TO EVALUATE THE NEED FOR DEEPER REMOVALS.

6. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF LOCATION OF EXISTING FACILITIES.

7. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

8. PRIOR TO PLACING FILL, AREAS TO RECEIVE FILL SHOULD BE SCARIFIED TO A DEPTH OF APPROXIMATELY 8 INCHES, MOISTURE CONDITIONED AS NECESSARY, AND COMPACTED. FILL SOILS MAY THEN BE PLACED AND COMPACTED IN LAYERS TO THE DESIGN FINISH GRADE ELEVATIONS. THE LAYERS SHOULD BE NO THICKER THAN WILL ALLOW FOR ADEQUATE BONDING AND COMPACTION. ALL FILL AND BACKFILL SHOULD BE COMPACTED TO AT LEAST 90 PERCENT OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT OR SLIGHTLY ABOVE, AS DETERMINED BY ASTM D1557. THE UPPER 12 INCHES OF SUBGRADE IN PAVEMENT AREAS SHOULD BE COMPACTED TO 95 PERCENT RELATIVE COMPACTION.

9. PRIOR TO PLACING BASE MATERIAL, THE UPPER 12" OF SUBGRADE SHOULD BE SCARIFIED, MOISTURE CONDITIONED AND RECOMPACTED TO A MINIMUM OF 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557. THE BASE MATERIAL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY.

10. THE PAVEMENT SECTIONS SHOWN ON THESE PLANS ARE PRELIMINARY. FINAL PAVEMENT SECTIONS SHOULD BE DETERMINED ONCE SUBGRADE ELEVATIONS HAVE BEEN ATTAINED AND R-VALUE TESTING ON SUBGRADE SAMPLES IS PERFORMED.

11. CUT AND FILL SLOPES SHALL BE TRIMMED TO THE FINISH GRADE TO PRODUCE A SMOOTH AND UNIFORM SURFACE OR CROSS-SECTION. THE SLOPES OF EXCAVATIONS OR EMBANKMENT SHALL BE SHAPED AND TRIMMED AS DIRECTED BY THE ENGINEER OF WORK AND LEFT IN A NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS, OR OTHER WASTE MATTER EXPOSED ON EXCAVATION OR EMBANKMENT SLOPE SHALL BE REMOVED AND DISPOSED OF.

12. DURING CONSTRUCTION: THE CONTRACTOR SHALL PROPERLY GRADE ALL EXCAVATED SURFACES TO PROVIDE POSITIVE DRAINAGE AND PREVENT PONDING OF WATER. CONTRACTOR SHALL CONTROL SURFACE WATER TO AVOID DAMAGE TO ADJOINING PROPERTIES OR TO FINISHED WORK ON THE SITE. THE CONTRACTOR SHALL TAKE REMEDIAL MEASURES TO PREVENT EROSION OF FRESHLY GRADED AREAS AND UNTIL SUCH TIME AS PERMANENT DRAINAGE AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED. AFTER COMPLETION: AFTER GRADING IS COMPLETED AND THE SOILS ENGINEER HAS FINISHED HIS OBSERVATIONS OF THE WORK, NO FURTHER EXCAVATION OR FILLING SHALL BE DONE EXCEPT UNDER THE OBSERVATION OF THE SOILS ENGINEER.

13. CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS REQUIRED TO PROTECT ADJACENT PROPERTIES DURING THE GRADING OPERATIONS.

14. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AGENCY APPROVAL OF THE ROUTE AND SITE LOCATION FOR EXPORT AND/OR IMPORT MATERIALS.

SPECIAL NOTES

1. ALL LANDSCAPE AREAS SHALL BE GRADED TO SLOPE AWAY FROM STRUCTURES AND PROPERTY LINES TOWARD LANDSCAPE DRAINAGE SWALES AND/ OR SITE DRAIN INLETS AT 2% MINIMUM GRADIENT (1% WHERE FLOW IS CONCENTRATED). SMOOTH FINISH GRADES TO ELIMINATE PONDING OR STANDING WATER.

2. ALL LANDSCAPE DRAINS SHALL BE 4" MINIMUM CONSTRUCTED WITH RIGID BELOW GRADE PIPING WITH A 1% MINIMUM GRADIENT UNLESS OTHERWISE NOTED.

3. LANDSCAPE DRAINS, CATCH BASINS, INLETS, ETC. SHOWN HEREON ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE COMPLETE DRAINAGE SYSTEMS AND ADJUST THE LAYOUT AS REQUIRED TO MATCH SITE CONDITIONS AND/ OR MINOR DISCREPANCIES WITH THESE PLANS.

4. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO MAINTAIN PROPER DRAINAGE AND EROSION CONTROL DURING CONSTRUCTION.

5. CONTRACTOR SHALL NOTIFY ENGINEER UPON THE DISCOVERY OF AREAS WHICH DO NOT DRAIN PROPERLY OR ANY OTHER DISCREPANCY OR AREA WHICH HAS NOT BEEN ADEQUATELY ADDRESSED AS A RESULT OF A FIELD CONDITION OR ANOMALY IN THE TOPOGRAPHY.

6. HARDSCAPE GRADES SHALL BE 0.04' BELOW DRIP SCREED AT HIGHEST POINT NEAR STRUCTURE AND SHALL SLOPE AT A 1% MINIMUM GRADE TO DRAINS OR LANDSCAPE AREAS. HARDSCAPE SHALL SLOPE AND DRAIN AWAY FROM THE STRUCTURE UNLESS OTHERWISE NOTED.

7. THE HIGHEST ADJACENT GRADE AGAINST STRUCTURE FOOTINGS SHALL BE PER THE LATEST CALIFORNIA BUILDING CODE AND GREEN BOOK STANDARDS.

8. THE LOCATIONS OF UNDERGROUND STRUCTURES AND UTILITIES SHOWN HEREON HAVE BEEN OBTAINED FROM AVAILABLE RECORDS FOR THE BENEFIT OF THE CONTRACTOR. THE DEPICTION OF UTILITIES SHOWN ON THESE PLANS DOES NOT CONSTITUTE A GUARANTEE OF THEIR EXACT LOCATION, DEPTH, SIZE, OR TYPE. EXACT LOCATION, DEPTH, TYPE AND SIZE SHOULD BE VERIFIED BY POTHOLING PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT ALL UNDERGROUND AND/OR OVERHEAD STRUCTURES AND/OR UTILITIES WHETHER OR NOT THEY ARE SHOWN HEREON. ALL DAMAGES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE APPROPRIATE SPECIFICATIONS AND AT THE EXPENSE OF THE CONTRACTOR.

9. CONTRACTOR SHALL LOCATE EXISTING UTILITIES.

10. CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF WORK OF ANY DISCREPANCIES PRIOR TO START OF WORK.

11. LOCATION AND ELEVATION OF EXISTING IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK.

12. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE & COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR AGREES TO DEFEND, INDEMNIFY AND HOLD THE JURISDICTIONAL AGENCY AND THE DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE JURISDICTIONAL AGENCY OR DESIGN PROFESSIONAL.

13. NEITHER THE OWNER, NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS. THE CONTRACTOR SHALL ENFORCE ALL SAFETY MEASURES.

14. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSURE THAT ALL SLOPES, STREETS, UTILITIES, AND STORM DRAINS ARE BUILT IN ACCORDANCE WITH THESE PLANS. IF THERE IS ANY QUESTION REGARDING THESE PLANS OR FIELD STAKES, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION BEFORE DOING ANY WORK BY CALLING THE ENGINEER OF WORK. THE CONTRACTOR SHALL ALSO TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION AND SILTATION THAT RESULTS FROM HIS OPERATIONS BY APPROPRIATE MEANS (SAND BAGS, HAY BALES, TEMPORARY DESILTING BASINS, DIKES, SHORING, ETC.) UNTIL SUCH TIME THAT THE PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY WHATEVER OWNER, AGENCY OR ASSOCIATION IS TO BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE.

15. CONTRACTOR SHALL NOTIFY THE LOCAL GAS & ELECTRIC UTILITY AGENCY PRIOR TO STARTING WORK NEAR AGENCY FACILITIES AND SHALL COORDINATE HIS WORK WITH AGENCY REPRESENTATIVES. NOTICE: ELECTRICAL AND GAS SERVICES MAY BE "UNDERGROUND INSTALLATIONS". USA WILL NOT HAVE ANY ON-SITE UNDERGROUND INFORMATION, CONTRACTOR SHALL SECURE SERVICES OF PRIVATE UTILITY LOCATOR SERVICE.

16. THE CONTRACTOR SHALL TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING UTILITIES OR STRUCTURES LOCATED AT THE WORK SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER OF UTILITIES OR STRUCTURES PRIOR TO ANY EXCAVATION FOR VERIFICATION AND LOCATION OF UTILITIES.

STANDARDS AND SPECIFICATIONS

WORK SHOWN ON THE PLANS SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING DOCUMENTS:

1. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREEN BOOK").
2. STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS
3. CITY OF SAN DIEGO AREA REGIONAL STANDARD DRAWINGS

LEGAL DESCRIPTION

ALL THAT PORTION OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 24, TOWNSHIP 14 SOUTH, RANGE 4 WEST, SAN BERNARDINO MERIDIAN, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO THE UNITED STATES GOVERNMENT SURVEY APPROVED JANUARY 18, 1876 AS DESCRIBED IN DOCUMENT NO. 1999-0512444 RECORDED IN THE OFFICE OF THE RECORDER FOR SAN DIEGO COUNTY JULY 26, 1999. (APN 301-050-07)

BENCHMARK

THE BENCHMARK FOR THIS SURVEY IS THE CITY OF SAN DIEGO BRASS PLUG IN THE TOP OF THE CURB AT THE SOUTHEAST CORNER OF DEL MAR HEIGHTS ROAD AND MERCADO DRIVE; ELEVATION = 381.037, NGVD29.

TOPOGRAPHY SOURCE

SNIPES-DYE
TOPO SOURCE: AERIAL
TOPO DATE: 10-21-19

CIVIL SHEET INDEX

C1.0	GENERAL NOTES
C2.0	NOTES AND DETAILS
C3.1	HORIZONTAL CONTROL & PAVING PLAN
C3.2	HORIZONTAL CONTROL & PAVING PLAN
C4.1	GRADING PLAN
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C5.1	EROSION CONTROL PLAN
C5.2	EROSION CONTROL PLAN
C6.1	DETAILS
C6.2	DETAILS

EASEMENT EXCEPTIONS

THE FOLLOWING EASEMENT EXCEPTION ITEMS REFER TO EASEMENTS LISTED IN TITLE REPORT PREPARED BY CHICAGO TITLE COMPANY DATED AUGUST 28, 2019 ORDER NO. 00116605-993-SD2-CFU.

(2.) REFERS TO AN EASEMENT FOR A STORM DRAIN TO THE CITY OF SAN DIEGO, RECORDED SEPTEMBER 25, 1962 AS INSTRUMENT NO. 164921 OF OFFICIAL RECORDS.

3. REFERS TO AN EASEMENT FOR PUBLIC UTILITIES, INGRESS, EGRESS TO SAN DIEGO GAS AND ELECTRIC COMPANY, RECORDED OCTOBER 9, 1967 AS INSTRUMENT NO. 155526 OF OFFICIAL RECORDS.

NOTE: THE EXACT LOCATION AND EXTENT OF SAID EASEMENT IS NOT DISCLOSED OF RECORD.

(5.) REFERS TO AN EASEMENT FOR STREET AND DRAINAGE PURPOSES TO CITY OF SAN DIEGO, RECORDED JANUARY 11, 1984 AS RECORDING NO. 1984-010836 AND 1984-010837 OF OFFICIAL RECORDS.

MINIMUM POST-CONSTRUCTION BMP MAINTENANCE PLAN

AT THE COMPLETION OF THE WORK SHOWN, THE FOLLOWING PLAN SHALL BE FOLLOWED TO ENSURE WATER QUALITY CONTROL IS MAINTAINED FOR THE LIFE OF THE PROJECT:

1. STABILIZATION: ALL PLANTED SLOPES AND OTHER VEGETATED AREAS SHALL BE INSPECTED PRIOR TO OCTOBER 1 OF EACH YEAR AND AFTER MAJOR RAINFALL EVENTS (MORE THAN 1 1/2 INCH) AND REPAIRED AND REPLANTED AS NEEDED UNTIL A NOTICE OF TERMINATION (NOT) IS FILED.
2. STRUCTURAL PRACTICES: DESILTING BASINS, DIVERSION DITCHES, DOWN DRAINS, INLETS, OUTLET PROTECTION MEASURES, AND OTHER PERMANENT WATER QUALITY AND SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED PRIOR TO OCTOBER 1ST OF EACH YEAR AND AFTER MAJOR RAINFALL EVENTS (MORE THAN 1/2 INCH). REPAIRS AND REPLACEMENTS SHALL BE MADE AS NEEDED AND RECORDED IN THE MAINTENANCE LOG IN PERPETUITY.
3. OPERATION AND MAINTENANCE, FUNDING: POST-CONSTRUCTION MANAGEMENT MEASURES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL THE TRANSFER OF RESPECTIVE SITES TO HOME BUILDERS, INDIVIDUAL OWNERS, HOMEOWNERS ASSOCIATIONS, SCHOOL DISTRICTS, OR LOCAL AGENCIES AND/OR GOVERNMENTS. AT THAT TIME, THE NEW OWNERS SHALL ASSUME RESPONSIBILITY FOR THEIR RESPECTIVE PORTIONS OF THE DEVELOPMENT.

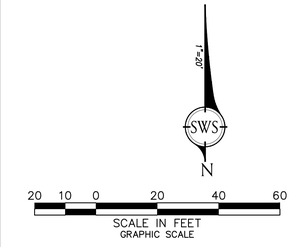
EROSION AND SEDIMENT CONTROL NOTES

1. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT GRADING AND/OR CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD AND THE LOCAL AGENCY.
2. GRADING FOR THE PROJECT SHOULD BE ENCOURAGED DURING THE DRY SEASON (APRIL 1 THROUGH OCTOBER 31). GRADING WHICH OCCURS DURING THE RAINY SEASON (NOVEMBER 1 TO MARCH 31) SHALL REQUIRE EROSION CONTROL MEASURES.
3. EMERGENCY EROSION CONTROL MEASURES ARE REQUIRED TO CONTROL SOIL MOVEMENT SATISFACTORY TO THE INSPECTOR IN THE EVENT THE SITE IS EXPOSED TO EROSION DURING THE PERIOD BETWEEN OCTOBER 15TH AND APRIL 15TH. EROSION CONTROL MEASURES SHALL INCLUDE, BUT NOT LIMITED TO, SLOPE PROTECTION, INSTALLATION OF JUTE MATING OR APPROVED EQUIVALENT, SILTING BASINS, SILT CONTROL, GRAVEL BAGGING AND STORM DRAINS.
4. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL T

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL
INCREMENT 2 - PRECISE GRADING

KEYNOTES



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NOTES AND DETAILS

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C2.0

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SCALE IN FEET
GRAPHIC SCALE
20 10 0 20 40 60

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REGISTERED PROFESSIONAL ENGINEER
MARC H. SANDOVAL
No. 49673
Exp. 09-30-2020
CIVIL
STATE OF CALIFORNIA

HORIZONTAL CONTROL
& PAVING PLAN

NO. DATE ISSUE

PROJECT NO: 19-069
DATE: 02/13/20

DRAWING
C3.1

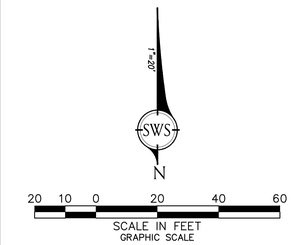
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REGISTERED PROFESSIONAL ENGINEER
TRACY H. SANDOVAL
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STATE OF CALIFORNIA

HORIZONTAL CONTROL & PAVING PLAN

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C3.2

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KEYNOTES

CONSTRUCTION NOTES

1. STAIRS PER ARCHITECTURAL PLANS
2. SEAT WALL PER ARCHITECTURAL PLANS
3. PLANTER/LANDSCAPE ISLAND PER LANDSCAPE PLANS
4. CATCH BASIN/DRAIN PER UTILITY PLAN SHEETS C5.1–C5.6
5. FENCING AND GATES PER ARCHITECTURAL PLANS
6. AUDITORIUM BENCH SEATING PER LANDSCAPE PLANS

NOTE: SEE SHEET C___ FOR PAVING AND HARDSCAPE INFORMATION

1"=10'
SCALE IN FEET
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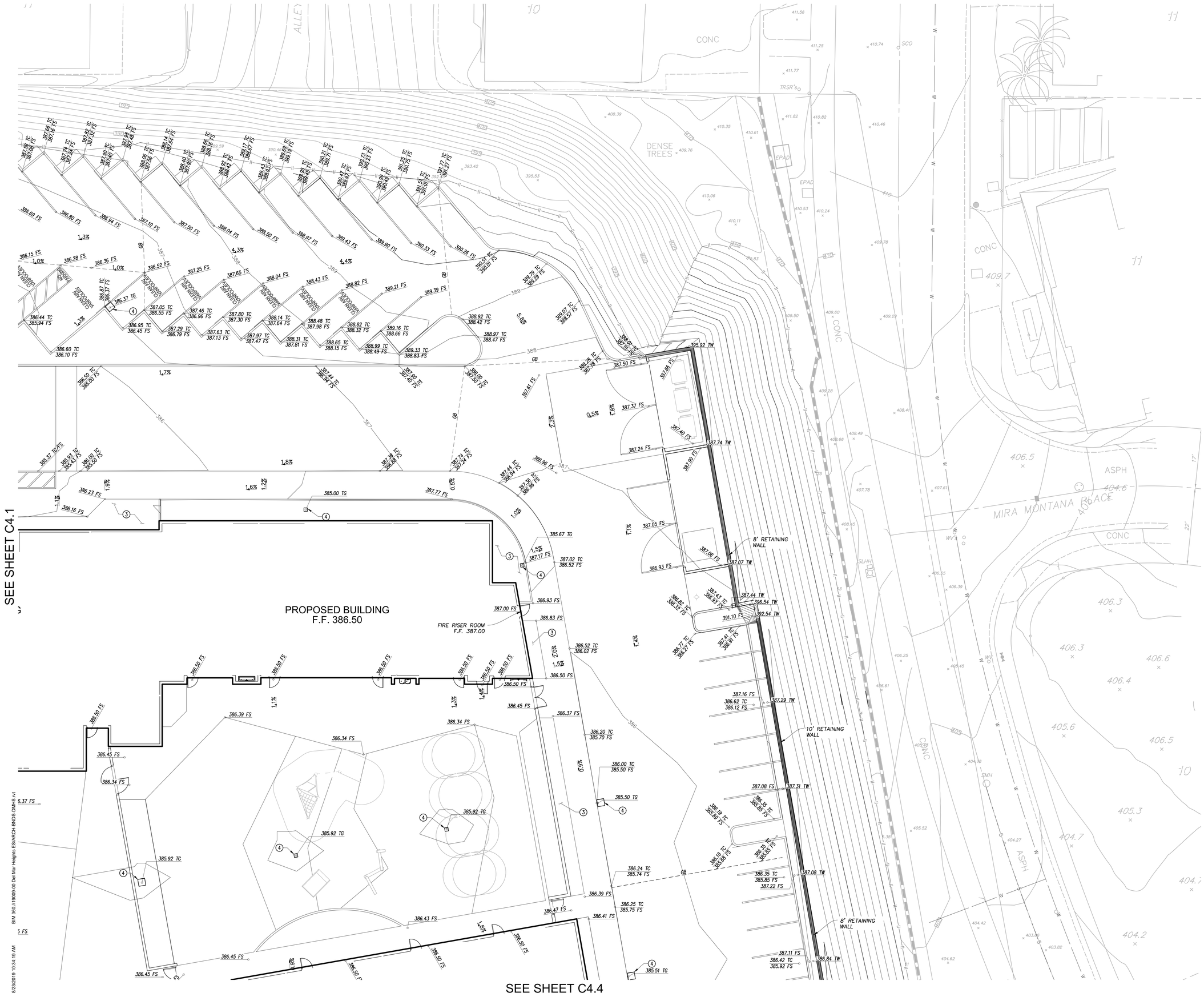
REGISTERED PROFESSIONAL ENGINEER
KEVIN R. SANDOVAL
No. 49673
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CIVIL
STATE OF CALIFORNIA

GRADING PLAN

NO.	DATE	ISSUE

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C4.1



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MARK H. SANTOS
No. 49673
Exp. 09-30-2020
CIVIL
STATE OF CALIFORNIA

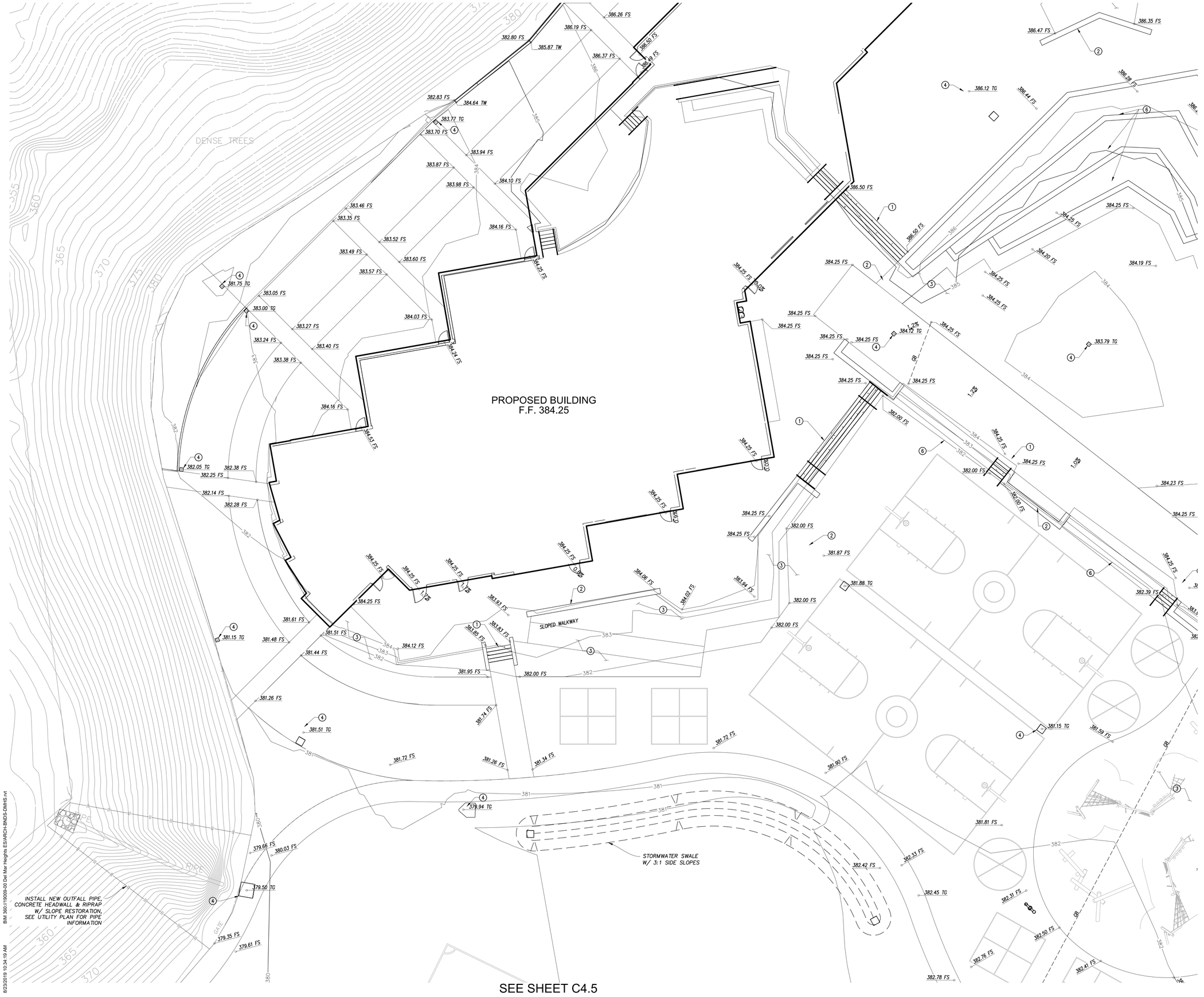
GRADING PLAN

NO.	DATE	ISSUE

PROJECT NO: 19-069
DATE: 02/13/20

DRAWING
C4.2

SEE SHEET C4.1


PROPOSED BUILDING
F.F. 384.25
DENSE TREES
SLOPED WALKWAY
STORMWATER SWALE
W/ 3:1 SIDE SLOPES
INSTALL NEW OUTFALL PIPE, CONCRETE HEADWALL & RIPRAP W/ SLOPE RESTORATION, SEE UTILITY PLAN FOR PIPE INFORMATION
RIPRAP
GATE
386.26 FS
386.19 FS
386.50 FS
386.49 FS
382.80 FS
385.87 TW
386.37 FS
382.83 FS
384.64 TW
383.77 TG
383.70 FS
383.94 FS
383.87 FS
383.98 FS
384.10 FS
383.46 FS
383.35 FS
384.16 FS
383.52 FS
383.49 FS
383.60 FS
383.57 FS
384.25 FS
381.75 TG
383.05 FS
383.00 TG
383.27 FS
384.03 FS
383.24 FS
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383.38 FS
384.24 FS
384.16 FS
384.51 FS
382.05 TG
382.38 FS
382.25 FS
382.14 FS
382.28 FS
384.25 FS
384.25 FS
384.25

SEE SHEET C4.2

SEE SHEET C4.3

SEE SHEET C4.6

PROPOSED BUILDING
F.F. 386.50

PROPOSED BUILDING
F.F. 386.50

PROPOSED BUILDING
F.F. 384.25

SLOPED WALKWAY

6' RETAINING WALL

6' RETAINING WALL

6' RETAINING WALL

6' RETAINING WALL

DENSE TREES

DENSE TREES

MIRA MONTANA DRIVE

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NOTE: SEE SHEET C___ FOR PAVING AND HARDSCAPE INFORMATION

1"=10'

10 5 0 10 20 30
SCALE IN FEET
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REGISTERED PROFESSIONAL ENGINEER
TROY H. SANTOS
No. 49673
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STATE OF CALIFORNIA

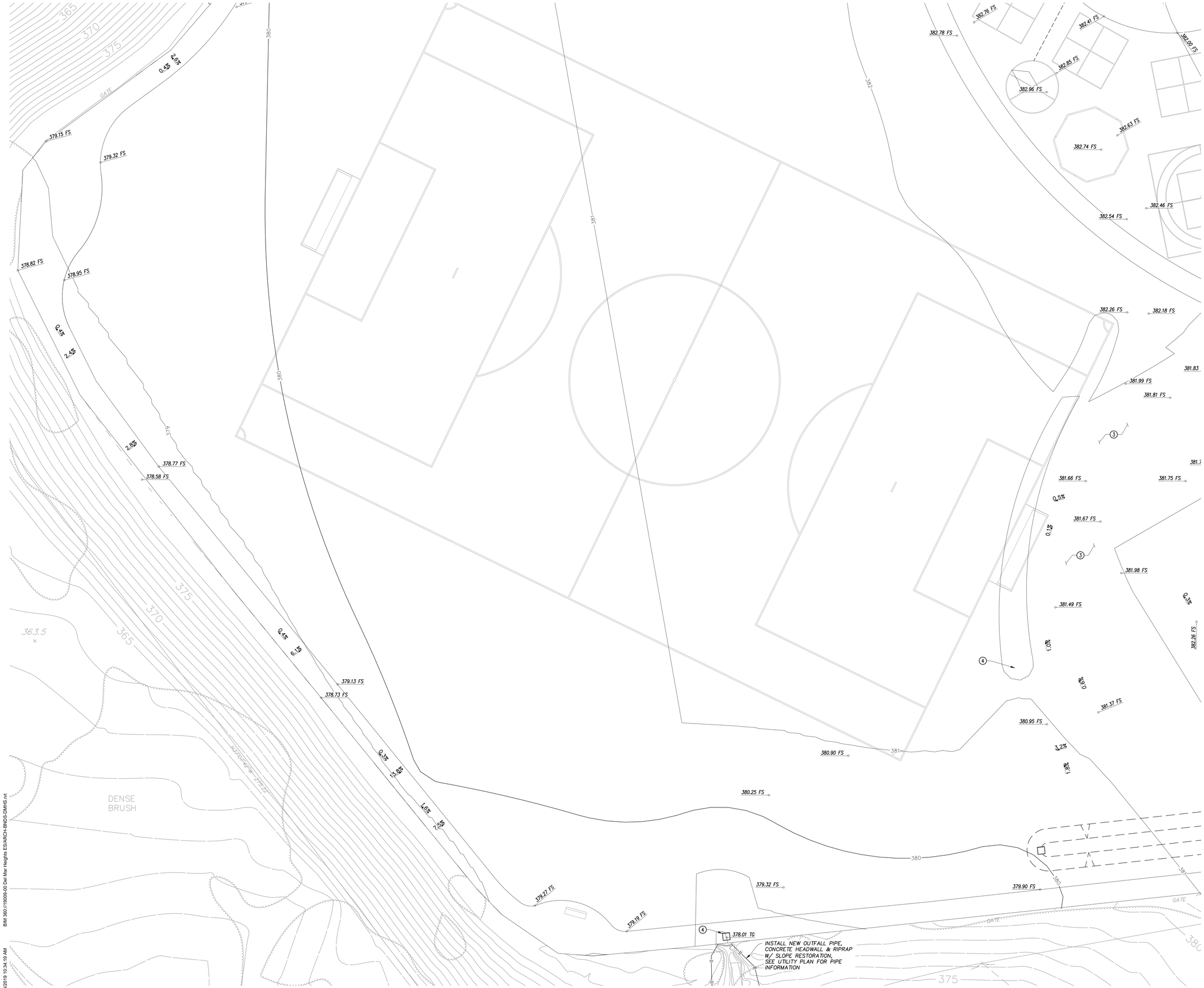
GRADING PLAN

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DRAWING
C4.4

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SEE SHEET C4.6

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REGISTERED PROFESSIONAL ENGINEER
TRACY H. SANTOS
No. 49673
Exp. 09-30-2020
CIVIL
STATE OF CALIFORNIA

GRADING PLAN

NO.	DATE	ISSUE

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DRAWING
C4.5

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SEE SHEET C4.4

SEE SHEET C4.5

PROPOSED BUILDING
F.F. 384.25

STORMWATER SWALE
W/ 3:1 SIDE SLOPES

STORMWATER SWALE
W/ 3:1 SIDE SLOPES

SLOPED WALKWAY

6' RETAINING WALL

6' RETAINING WALL

DENSE BRUSH

DENSE TREES

TRAIL

STAIRS

GATE

CONC

ASPH

TRSR

SMH

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INCREMENT 2 - PRECISE GRADING

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SCALE IN FEET
GRAPHIC SCALE

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REGISTERED PROFESSIONAL ENGINEER
TRAVIS R. SAWYER
No. 49673
Exp. 09-30-2020
CIVIL
STATE OF CALIFORNIA

GRADING PLAN

NO.	DATE	ISSUE

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DATE: 02/13/20

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C4.6

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SEE SHEET C5.2

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KEYNOTES

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SCALE IN FEET
GRAPHIC SCALE

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REGISTERED PROFESSIONAL ENGINEER
MARC H. SANDLOWICH
No. 49673
Exp. 09-30-2020
CIVIL
STATE OF CALIFORNIA

EROSION CONTROL PLAN

NO.	DATE	ISSUE

PROJECT NO: 19-069
DATE: 02/13/20

DRAWING
C5.1

BIM 360://19009-00 Del Mar Heights ES/ARCH-BNDS-DMHS.rvt
8/23/2019 10:34:19 AM

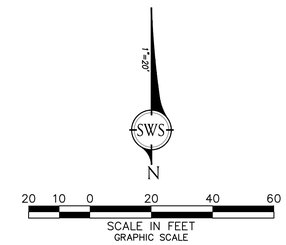
SEE SHEET C5.1



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731 Ninth Avenue, Suite A, San Diego, California 92101
619.795.2450
www.bndesignstudio.com

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL
INCREMENT 2 - PRECISE GRADING

KEYNOTES



SWS ENGINEERING, INC.
CIVIL ENGINEERING ◆ LAND PLANNING ◆ SURVEYING
1635 Lake San Marcos Drive, Suite 200
San Marcos, CA 92078
P: 760-744-0011 F: 760-744-0046
31845 Temecula Parkway, Suite 201
Temecula, CA 92592
P: 951-296-3407 F: 951-587-9451
DATE: Feb 13, 20 7:56pm by Matt Spencer
FILE: Z:\Projects\2019\19-069\PROD\Construct\GP\19-069_GP-05.dwg

REGISTERED PROFESSIONAL ENGINEER
TRACY H. SANDOVAL
No. 49673
Exp. 09-30-2020
CIVIL
STATE OF CALIFORNIA

EROSION CONTROL PLAN

NO.	DATE	ISSUE

PROJECT NO: 19-069
DATE: 02/13/20

DRAWING
C5.2

BIM 360://19009-00 Del Mar Heights ES/ARCH-BNDS-DMHS.rvt
8/23/2019 10:34:19 AM



TREE SURVEY -PROTECTION & DEMOLITION

NUMBER	TREE SPECIES	CALIPER	HEIGHT	SPREAD	ACTION
01	BUTTA CAPITATA	24"	14'	10'-0"	DEMO
02	SYAGRUS ROMANZOFFIANA	18"	19'	8'-0"	DEMO
03	WASHINGTONIA ROBUSTA	16"	40'	11'	DEMO
04	WASHINGTONIA ROBUSTA	16"	20'	15'	DEMO
05	WASHINGTONIA ROBUSTA	14"	30'	12'	DEMO
06	ARBUTUS UNEDO	6"	10'	8'-0"	DEMO
07	ANA APPLE TREE (ESP.)	3"	6.5'	7'	DEMO
08	ANA APPLE TREE (ESP.)	6"	6.5'	8'-0"	DEMO
09	ANA APPLE TREE (ESP.)	3"	6.5'	7'	DEMO
10	ANA APPLE TREE (ESP.)	3"	5.5'	7'	DEMO
11	ANA APPLE TREE (ESP.)	2"	4.5'	6'	DEMO
12	POMEGRANATE TREE	4"	12'	12'	DEMO
13	PASSION FRUIT	1"	9'	10'	DEMO
14	CERCIS OCCIDENTALIS	3"	11'	10'	DEMO
15	CITRUS (SPP.)	2.5"	9'	6'	DEMO
16	GUAVA (SPP.)	4"	12'	10'	DEMO
17	PLUMERIA (SPP.)	5.5"	14'	15'	DEMO
18	FEIJOA SELLOWIANA	4"	14'	16'	DEMO
19	CITRUS AUBANTIFOLIA	2"	10'	10'	DEMO
20	CITRUS AUBANTIFOLIA	1.5"	8'-0"	6'	DEMO
21	PINUS TORREYANA	26"	40'	30'	PROTECT
22	PINUS TORREYANA	14"	40'	20'	PROTECT
23	PINUS TORREYANA	18"	30'	20'	PROTECT
24	PINUS TORREYANA	16"	25'	38'	PROTECT
25	PINUS TORREYANA	18"	30'	23'	PROTECT
26	PINUS TORREYANA	18"	30'	25'	PROTECT
27	PINUS TORREYANA	20"	35'	30'	PROTECT
28	PINUS TORREYANA	20"	38'	30'	PROTECT
29	PINUS TORREYANA	30"	32'	25'	PROTECT
30	PINUS TORREYANA	36"	60'	40'	PROTECT
31	PINUS TORREYANA	8"	24"	15'	PROTECT
32	PINUS TORREYANA	8"	36'	22'	PROTECT
33	PINUS TORREYANA	10"	38'	25'	PROTECT
34	PINUS TORREYANA	6"	35'	20'	PROTECT
35	PINUS TORREYANA	8"	38'	18'	PROTECT
36	PINUS TORREYANA	5"	35'	10'	PROTECT
37	PINUS TORREYANA	7"	38'	15'	PROTECT
38	PINUS TORREYANA	6"	38'	15'	PROTECT
39	PINUS TORREYANA	10"	48'	13'	PROTECT
40	PINUS TORREYANA	12"	52'-0"	20'	PROTECT
41	PINUS TORREYANA	11"	50'-0"	20'	PROTECT
42	PINUS TORREYANA	6"	35'	12'	PROTECT
43	PINUS TORREYANA	8"	40'	15'	PROTECT
44	PINUS TORREYANA	6"	33'	10'	PROTECT
45	PINUS TORREYANA	10"	38'	15'	PROTECT
46	PINUS TORREYANA	8"	38'	15'	PROTECT
47	PINUS TORREYANA	6"	40'	12'	PROTECT
48	PINUS TORREYANA	6"	40'	20'	PROTECT
49	PINUS TORREYANA	10"	48'	18'	PROTECT
50	PINUS TORREYANA	18"	50'-0"	20'	PROTECT
51	PINUS TORREYANA	14"	53'-0"	28'	PROTECT
52	PINUS TORREYANA	24"	60'	40'	PROTECT

0 16' 32' 64'
1"=32'-0"
NORTH

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www.bndesignstudio.com

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEYNOTES

LICENSED LANDSCAPE ARCHITECT BRAD LEMLEY 4470 SIGNATURE ON FILE STATE OF CALIFORNIA

GROUNDLEVEL
LANDSCAPE ARCHITECTURE
2605 State Street, Suite B
San Diego, CA 92103
619 234 1010
GroundLevelSD.com
GL PROJECT: 19094

LICENSED ARCHITECT JON ALAN BAKER NO.C14513 EXP. 9-30-19 STATE OF CALIFORNIA

LANDSCAPE TREE SURVEY PLAN

NO. DATE ISSUE

PROJECT NO: 14029-13
DATE: 12/13/2019

DRAWING
LS1.01



TREE SURVEY -PROTECTION & DEMOLITION (CONTINUED...)

NUMBER	TREE SPECIES	CALIPER	HEIGHT	SPREAD	ACTION
52	PINUS TORREYANA	24"	60'	40'	PROTECT
53	PINUS TORREYANA	20"	55'	38'	PROTECT
54	PINUS TORREYANA	22"	55'	30'	PROTECT
55	PINUS TORREYANA	20"	60'	38'	PROTECT
56	PINUS TORREYANA	20"	55'	35'	PROTECT
57	MELALEUCA	6"	14'	12'	DEMO
58	WASHINGTONIA ROBUSTA	20"	50'	16'	DEMO
59	PRUNUS PERSICA	11"	12'	18'	DEMO
60	CITRUS 'VALENCIA'	2.5"	10'	10'	DEMO
61	SYAGRUS ROMANZOFFIANA	12"	18' BTW	28'	DEMO
62	SYAGRUS ROMANZOFFIANA	14"	18' BTW	28'	DEMO
63	EUCALYPTUS (SPP.) 1	24"	50'	30'	PROTECT
64	PINUS TORREYANA	8"	35'	18'	PROTECT
65	EUCALYPTUS (SPP.) 2	18"	45'	25'	PROTECT
66	EUCALYPTUS (SPP.) 2	26"	50'	40'	PROTECT
67	PINUS TORREYANA	18"	40'	30'	PROTECT
68	PINUS (SPP.)	16"	30'	15'	PROTECT
69	EUCALYPTUS (SPP.) 2	5"	23'	10'	PROTECT
70	MUHLBERRY	6"	16'	18'	PROTECT
71	PINUS TORREYANA	24"	35'	30'	PROTECT
72	PINUS TORREYANA	20"	38'	30'	PROTECT
73	PINUS TORREYANA	16"	25'	18'	PROTECT
74	PINUS TORREYANA	8"'	30'	16'	PROTECT
75	PINUS TORREYANA	8"	30'	15'	PROTECT
76	PINUS TORREYANA	6"	30'	25'	PROTECT
77	PINUS TORREYANA	2"	14'	8'-0"	PROTECT
78	PINUS TORREYANA	10"	28'	18'	PROTECT
79	PINUS TORREYANA	5"	15'	10'	PROTECT
80	PINUS TORREYANA	8"	32'	20'	PROTECT
81	PINUS TORREYANA	6"	30'	18'	PROTECT
82	PINUS TORREYANA	6"	30'	18'	PROTECT

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEYNOTES

LICENSED LANDSCAPE ARCHITECT
BRAD LENMAN
4470
SIGNATURE
DATE 9-30-19
STATE OF CALIFORNIA

GROUNDLEVEL
LANDSCAPE ARCHITECTURE
2605 State Street, Suite B
San Diego, CA 92103
619 234 1010
GroundLevelSD.com
GL PROJECT: 19094

LICENSED ARCHITECT
JON ALAN BAKER
NO.C14513
EXP 9-30-19
STATE OF CALIFORNIA

LANDSCAPE TREE SURVEY

NO. DATE ISSUE

PROJECT NO: 14029-13
DATE: 12/13/2019

DRAWING
LS1.02



EXISTING IRRIGATION NOTES

NOTE 1:
CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR/MODIFICATION/REROUTING OF ALL ADJACENT IRRIGATION SYSTEM EQUIPMENT THAT IS AFFECTED BY NEW CONSTRUCTION IMPROVEMENTS. CONTRACTOR SHALL REPAIR SAID SYSTEMS TO A LIKE NEW MANNER, PROVIDING NO LESS THAN 100% OF HEAD RADIUS COVERAGE IN ALL AREAS WITH SYSTEM LAYOUT AS APPROVED BY OWNER'S AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL CONFIRM ALL AREAS REQUIRING MODIFICATION WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO BIDDING WORK AND PRIOR TO STARTING WORK.

NOTE 2:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL AND DISPOSAL OF ALL EXISTING IRRIGATION EQUIPMENT AFFECTED BY THE NEW CONSTRUCTION IMPROVEMENTS, IF NECESSARY. CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE REMOVED AND DISPOSED OF IN FIELD PRIOR TO BIDDING WORK AND PRIOR TO STARTING WORK.

NOTE 3:
CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO BIDDING WORK AND AGAIN PRIOR TO STARTING WORK. VERIFICATION SHALL BE DOCUMENTED AND DELIVERED TO OWNER'S REPRESENTATIVE.

NOTE 4:
CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ALL SCH 40 PVC SLEEVING UNDER PAVING, WALLS AND CURBS AT NO LESS THAN 24" BELOW GRADE AND NO LESS THAN 2X DIAMETER OF IRRIGATION PIPE IN AREAS WHERE PIPE CROSSING WILL OCCUR. WHEN PIPE SIZE IS NOT AVAILABLE USE 6" SLEEVING MATERIAL. CONFIRM CROSSINGS WITH OWNER'S REPRESENTATIVE PRIOR TO PAVING AND HARDSCAPE CONSTRUCTION.

PROPOSED IRRIGATION NOTES

NOTE A:
POINT OF CONNECTION SHALL BE DOWNSTREAM OF AN 1-1/2" WATER METER WITH DEDICATED IRRIGATION SERVICE. VERIFY THE ACTUAL LOCATION, SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. IF ANY OF THE POC INFORMATION SHOWN ON THESE DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC INFORMATION ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

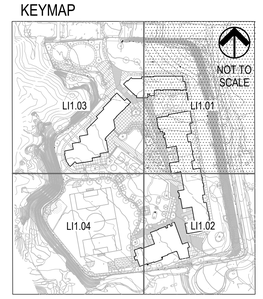
MINIMUM STATIC PRESSURE	XX PSI
DESIGN WATER PRESSURE	XX PSI
MAXIMUM SYSTEM DEMAND	XX GPM
RESIDUAL WATER PRESSURE	XX PSI

NOTE B:
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NOTE C:
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NOTE D:
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KEYMAP



0 8' 16' 32'
1"=16'-0"
NORTH

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619.795.2450
www.bndesignstudio.com

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEYNOTES

LICENSED LANDSCAPE ARCHITECT
BRAD LENAHAN
4470
SIGNATURE
DATE 09-30-19
STATE OF CALIFORNIA

GROUNDLEVEL
LANDSCAPE ARCHITECTURE
2605 State Street, Suite B
San Diego, CA 92103
619 234 1010
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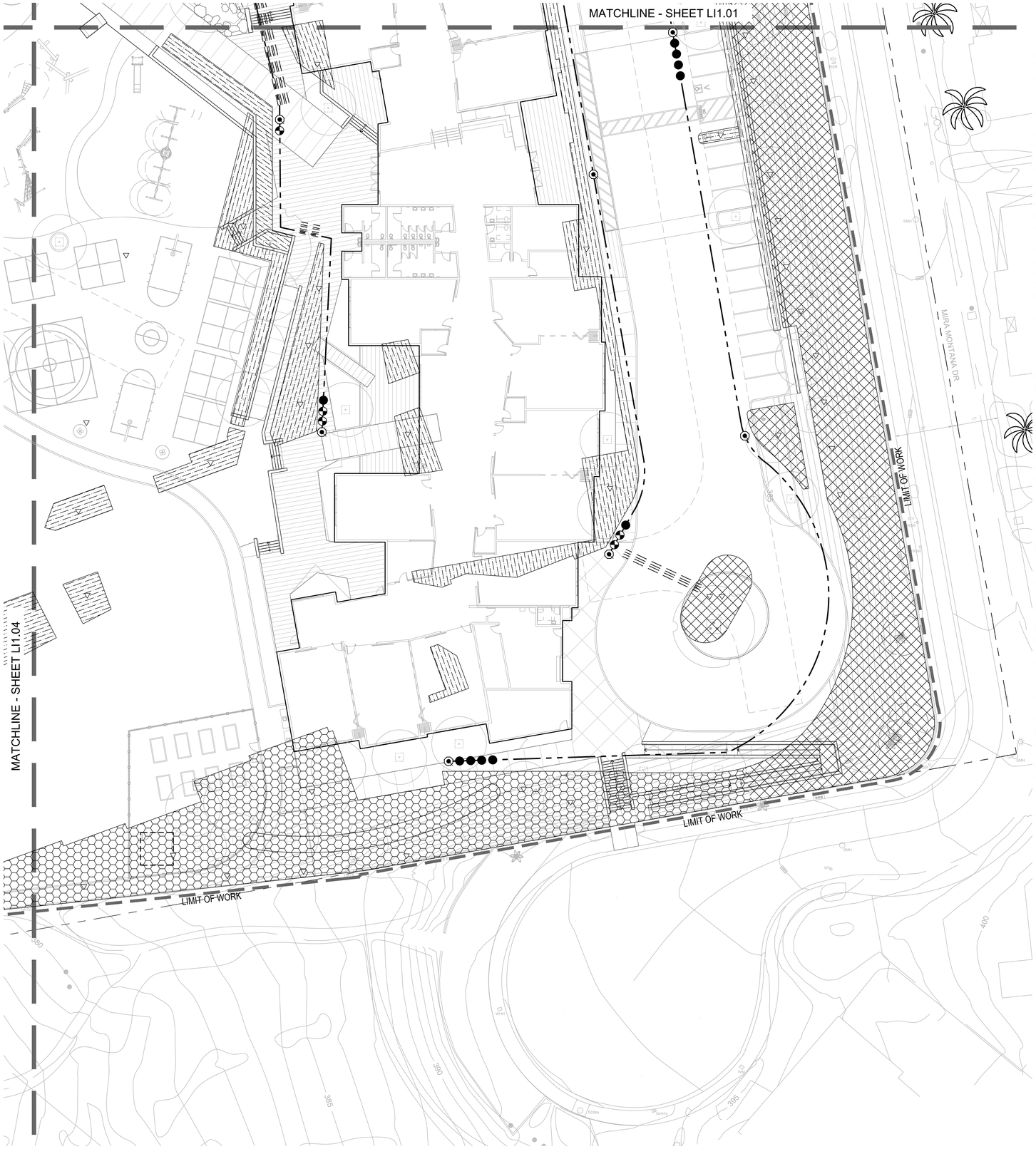
LICENSED ARCHITECT
JOHN ALAN BAKER
NO.C14513
EXP. 9-30-19
STATE OF CALIFORNIA

IRRIGATION PLAN

NO. DATE ISSUE

PROJECT NO: 14029-13
DATE: 12/13/2019

DRAWING
LI1.01



EXISTING IRRIGATION NOTES

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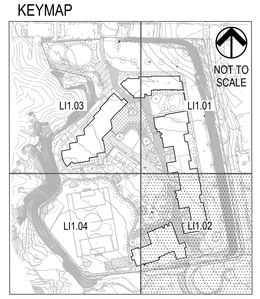
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KEYMAP



0 8' 16' 32'
1"=16'-0"
NORTH

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619.795.2450
www.bndesignstudio.com

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEYNOTES

LICENSED LANDSCAPE ARCHITECT BRAD LEMANSKI 4470 SIGNATURE DATE 9.27.19 STATE OF CALIFORNIA

GROUNDLEVEL
LANDSCAPE ARCHITECTURE
2605 State Street, Suite B
San Diego, CA 92103
619 234 1010
GroundLevelSD.com
GL PROJECT: 19094

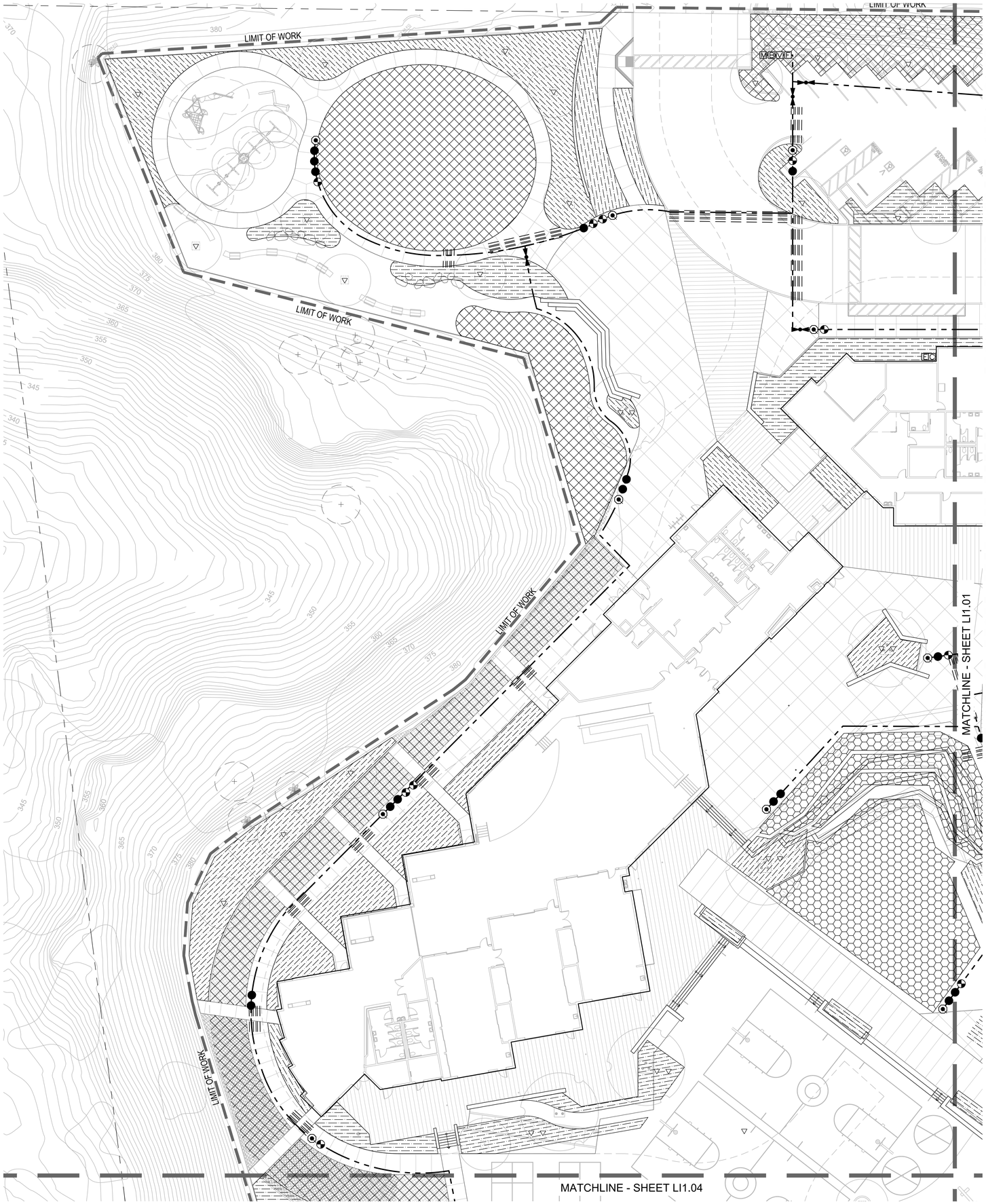
LICENSED ARCHITECT JON ALAN BAKER NO.C14513 EXP. 9-30-19 STATE OF CALIFORNIA

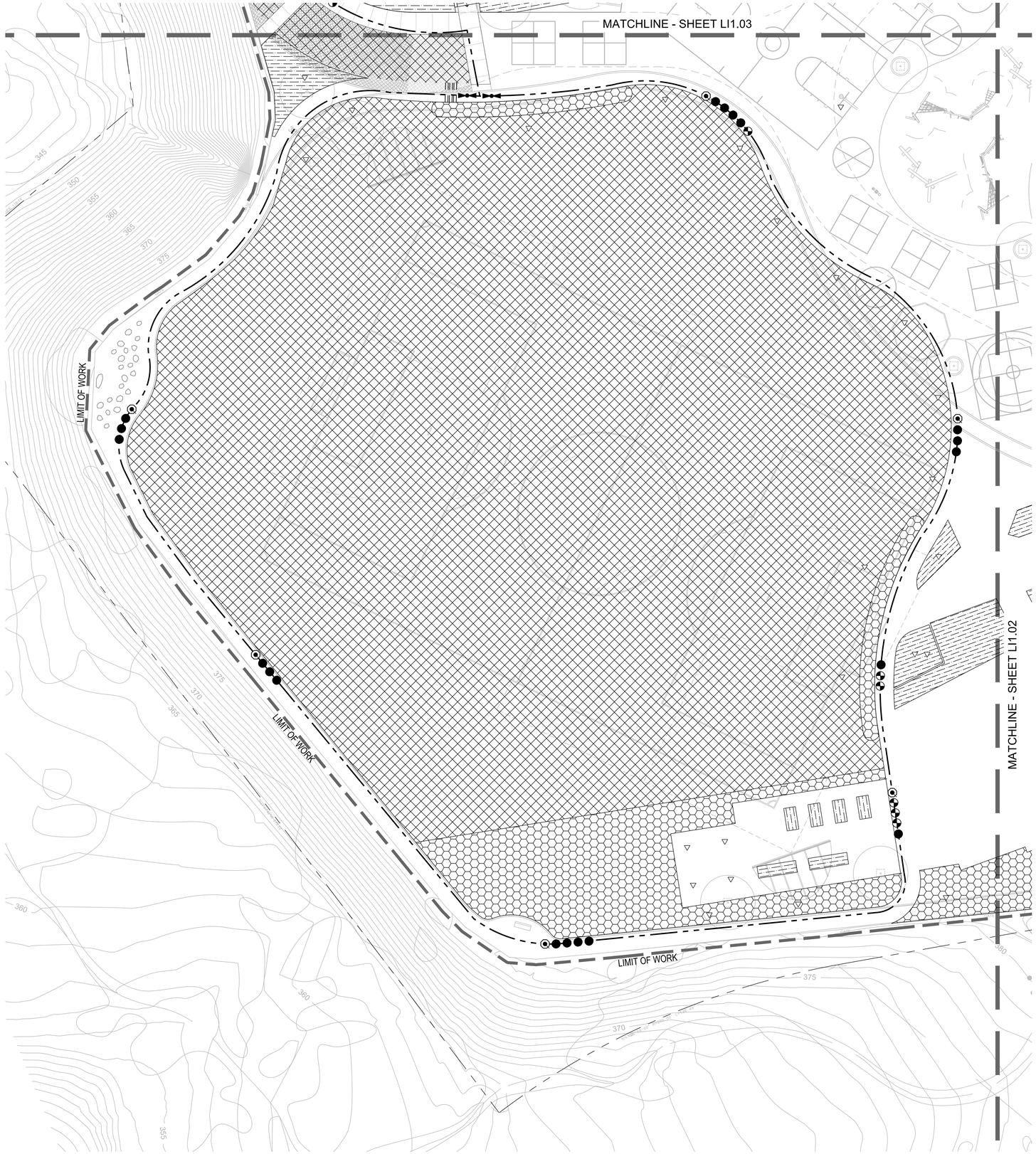
IRRIGATION PLAN

NO. DATE ISSUE

PROJECT NO: 14029-13
DATE: 12/13/2019

DRAWING
LI1.02


LIMIT OF WORK
LIMIT OF WORK
LIMIT OF WORK
LIMIT OF WORK
LIMIT OF WORK
MATCHLINE - SHEET LI1.01
MATCHLINE - SHEET LI1.04
EXISTING
EXISTING
EXISTING



EXISTING IRRIGATION NOTES

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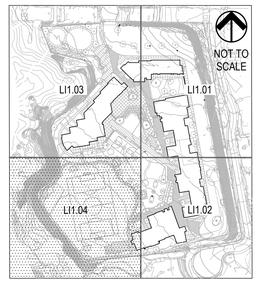
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1"=16'-0"
NORTH

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DEL MAR UNION SCHOOL DISTRICT
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KEYNOTES

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GROUNDLEVEL
LANDSCAPE ARCHITECTURE
2605 State Street, Suite B
San Diego, CA 92103
619 234 1010
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GL PROJECT: 19094

LICENSED ARCHITECT JOHN ALAN BAKER NO.C14513 EXP 9-30-19 STATE OF CALIFORNIA

IRRIGATION PLAN

NO. DATE ISSUE

PROJECT NO: 14029-13
DATE: 12/13/2019

DRAWING
LI1.04

GROUNDLEVEL LANDSCAPE ARCHITECTURE

Project: DEL MAR HEIGHTS ELEMENTARY SCHOOL
Project #: 19094

Water Budget - Maximum Applied Water Allowance (MAWA)

(Eto)(0.62) [(ETAF)(LA) + (1-ETAF)(SLA)]

Eto (Reference Evapotranspiration in inches)
0.62 (Conversion factor - to gallons)
ETAF (Evapotranspiration Adjustment Factor for Non-Residential Sites)
LA (Landscape Area)
1-ETAF (Additional Evaportranspiration Adjustment Factor for Special Landscape Areas & Reclaimed Water)
SLA (Special Landscape Area)

Water Budget

Eto =	47	
ETAF=	0.45	*Non-Residential
LA=	154,144	
1-ETAF=	0.55	*Non-Residential
SLA =	0	

ETWU = 2,021,290 Gallons per Year

Estimated Total Water Use (ETWU)

ETWU **[(Eto)(0.62)] [(PF x HA / IE) + SLA]**

Eto (Reference Evapotranspiration in inches)
0.62 (Conversion factor - to gallons)
PF (Plant Factor from WUCOLS)
HA (Hydrozone Area in SF.)
IE (Irrigation Efficiency)
SLA (Special Landscape Area)

Hydrozone 1 - Low Water Use (Shrubs w/in-Line Drip Tubing)

Eto =	47
PF =	0.1
HA =	29,888
IE =	0.81
SLA =	0

ETWU = 107,523 Gallons per Year

Hydrozone 2 - Low Water use (Slope Planting w/Rotors)

Eto =	47
PF =	0.2
HA =	42,154
IE =	0.75
SLA =	0

ETWU = 327,565 Gallons per Year

Hydrozone 3 - Moderate Water use (Shrubs w/Rotator Spray)

Eto =	47
PF =	0.4
HA =	12,427
IE =	0.75
SLA =	0

ETWU = 193,132 Gallons per Year

Hydrozone 4 - Moderate Water use (Trees w/Bubblers)

Eto =	47
PF =	0.4
HA =	1,224
IE =	0.81
SLA =	0

ETWU = 17,614 Gallons per Year

Hydrozone 5 - Very Low Water Use (Artificial Turf w/Rotator Spray)

Eto =	47
PF =	0.1
HA =	3,466
IE =	0.75
SLA =	0

ETWU = 13,467 Gallons per Year

Hydrozone 6 - Moderate Water Use (Play Field w/Rotor Spray)

Eto =	47
PF =	0.5
HA =	64,985
IE =	0.75
SLA =	

ETWU = 1,262,442 Gallons per Year

Total Estimated Water Use = 1,921,742 gallons less than 2,021,290 Gallons per Year

*** THE PROPOSED DESIGN UTILIZES LESS WATER THAN THE MAXIMUM APPLIED WATER ALLOWANCE AND IS THUS COMPLIANT WITH WATER USE REGULATIONS.**

IRRIGATION MATERIAL LEGEND

SYMBOL	MANUFACT.	MODEL NO. / DESCRIPTION	GPM	PSI	RADIUS	PR (TRI.)	DETAIL
	RAIN BIRD/ HUNTER	1812-SAM-PRS-NP POP-UP SHRUB HEAD W/ MP1000 NOZZLE	.19, .37, .75	40	14 FT	0.39 IN./HR.	A
	RAIN BIRD/ HUNTER	1812-SAM-PRS-NP POP-UP SHRUB HEAD W/ MP2000 NOZZLE	.40, .74, 1.47	40	20 FT	0.39 IN./HR.	A
	RAIN BIRD/ HUNTER	1812-SAM-PRS-NP POP-UP SHRUB HEAD W/ MP3000 NOZZLE	.86, 1.82, 3.64	40	30 FT	0.39 IN./HR.	A
	HUNTER	I-20-12-XX-R W/ NOZZLES .75SR/1.5SR/3.0SR POP-UP SHRUB ROTOR HEAD	0.68, 1.30, 2.70	40	20 FT	0.75 IN./HR.	A
	HUNTER	I-20-12-XX-R W/ NOZZLES 1.5/2.5/5.0 POP-UP SHRUB ROTOR HEAD	1.45, 2.30, 4.75	40	27 FT	0.73 IN./HR.	A
	HUNTER	I-20-12-XX-R W/ NOZZLES 2.0/4.0/8.0 POP-UP SHRUB ROTOR HEAD	1.85, 3.75, 7.50	40	34 FT	0.72 IN./HR.	A
▽	RAIN BIRD	1806-SAM-PRS-NP POP-UP BUBBLER HEAD WITH 5Q-B, EACH SYMBOL REPRESENTS TWO BUBBLERS PER TREE, PLACE BUBBLERS AT EDGE OF ROOTBALL ON OPPOSITE SIDES OF TREE TYPICAL.	.50 (1.0)	30	N/A	N/A	A, B
	LASCO	SLO-CLOSE SCH. 80 PVC TRUE-UNION BALL VALVE WITH SOLVENT WELD CONNECTIONS, LINE SIZE					D,T
	RAIN BIRD	44LRC 1" QUICK COUPLER VALVE PLACED IN A 10" ROUND VALVE BOX WITH LOCKING VINYL COVER AND A LASCO G13S-218 SWING JOINT @ 100' O.C. FOR ENTIRE MAINLINE LENGTH					E,T
	WEATHERMATIC	8200CR (1", 11/2") SERIES PRESSURE REGULATED, BRASS REMOTE CONTROL VALVE, SIZE AS SHOWN					F,T
	WEATHERMATIC/ TORO/ SENNINGER	8200CR (1", 1 1/2") SERIES DRIP REMOTE CONTROL VALVE ASSEMBLY, SIZE AS SHOWN, INSTALL TORO T-ALFD75150-L, 3/4" DISC FILTER AND SENNINGER PRESSURE REGULATOR PMR-MF-40 FOR DEMANDS LESS THAN 18 GPM. TORO T-ALFD10150-L 1" DISC FILTER AND SENNINGER PR-HF-40 PRESSURE REGULATOR FOR DEMANDS GREATER THAN 18 GPM. INSTALL BOTH ON THE DOWNSTREAM SIDE OF EACH DRIP RCV					G,T
C	RAIN MASTER J.D.G.T.	SA-6-RM4-96/RSE/FSF-200P/EMP 96 STATION BACK TO BACK RAIN MASTER CONTROLLER ASSEMBLIES INSTALLED IN A STAINLESS STEEL PEDESTAL ENCLOSURES WITH WEATHER SENSOR.					H,I
B	WILKENS	975XL, 2" R/P BACKFLOW PREVENTION DEVICE					
V	SUPERIOR	3300-200 2" NORMALLY CLOSED, BRASS MATER CONTROL VALVE					F,T
M	N/A	2" IRRIGATION METER AT POINT OF CONNECTION					F,T
F	DATA IND.	IR-250B SERIES FLOW SENSOR IN A 1-1/2" BRONZE TEE, WIRE TO CONTROLLER					
E	N/A	120 VOLT ELECTRICAL POWER, PROVIDED BY ELECTRICIAN, VERIFY ACTUAL LOCATION IN FIELD					N/A
	TORO	RGP-2-12-E DL2000 DRIP TUBING W/ .5 GPH EMITTERS 12" ON CENTER, INSTALL TUBING ROWS A MAXIMUM OF 16" APART IN SHRUB AREAS. ALL TUBING SHALL BE INSTALLED 4" BELOW FINISHED SOIL GRADE W/ 9" WIRE STAKES FIVE (5) FEET ON CENTER; VERIFY THE LAYOUT AND SPACING IN THE FIELD PRIOR TO STARTING WORK					J,K,L
	TORO	PVC HEADER CONNECTION TO DRIP TUBING WITH "LOC-EZE" FITTINGS AND PVC TEE OR ELL FITTINGS					J,K,L
	TORO	ALL CONNECTIONS BETWEEN DRIP TUBING SHALL BE MADE USING "LOC-EZE" FITTINGS					J,K,L
	LASCO	1/2" SCH. 40 PVC BALL VALVE WITH SLIP ENDS AND A LASCO MHT-102 3/4" MHY X 1/2" SLIP ADAPTER WITH A LASCO FHT-301 HOSE THREAD CAP FOR USE AS A DRIP TUBING FLUSH VALVE. SEE PLANS FOR LOCATIONS. INSTALL INSIDE A 10" ROUND VALVE BOX (OLD CASTLE CARSON #L-910)					L,M
	TORO	YD-500-34 AIR/VACUUM RELIEF VALVE INSTALLED WITH A FT-050 CONBINATION TEE AND A 3/4" X 1/2" REDUCER BUSHING, INSTALL AIR RELIEF ASSEMBLY INSIDE A 6" ROUND VALVE BOX AT THE HIGH POINT OF EACH PLANTER, MIN. 1 ARV PER 500' OF DRIPLINE. USING AIR RELIEF LATERAL, CONNECT AIR RELIEF VALVE TO ALL DRIPLINE LATERALS WITHIN THE ELEVATED AREA. MULTIPLE ARV'S SHALL BE REQUIRED PER RCV WITHIN UNDULATING AREAS, VERIFY QUANTITY PRIOR TO STARTING WORK. INSTALL VALVE BOX 18" FROM PAVING AND AT HIGH POINTS OF PLANTER AREA. INSTALL ALL AIR VACUUM RELIEF EQUIPMENT PER MANUFACTURER'S SPECIFICATIONS.					L,N
	AS APPROVED	PVC PIPE 3/4" - 21/2" SCH. 40 AS LATERAL LINES 12" BELOW GRADE					O
	AS APPROVED	PVC PIPE 21/2" CL. 315 SOLVENT WELD AS MAINLINES 18" BELOW GRADE. ALL MAINLINE SHALL RECEIVE THRUST BLOCKS MAINLINE SHALL BE INSTALLED A MIN. OF 10' OFFSET OF POTABLE LINES OR INSTALLED IN A SLEEVE WHEN CROSSING POTABLE LINES.					O,R,S
	AS APPROVED	PVC PIPE SCH. 40 AS SLEEVING, TWICE THE DIAMETER OF PIPE OR WIRE BUNDLE CARRIED PLACE BELOW ALL PAVING, HARDSCAPE ETC. AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE.					PR
NO SYMBOL	LASCO	ALL FITTINGS USED WITH SOLVENT WELD MAINLINE PIPE SHALL BE SCH. 80 PVC FITTINGS, GREY IN COLOR, AND SIZED TO MATCH THE MAINLINE PIPE. ALL FITTINGS USED WITH SOLVENT WELD LATERAL LINE PIPE SHALL BE SCH. 40 PVC, WHITE IN COLOR, AND SIZED TO MATCH THE LATERAL LINE PIPE. ALL THREADED PVC NIPPLES SHALL BE SCH. 80 PVC PIPE WITH MOLDED THREADS.					N/A
NO SYMBOL	CHRISTY'S/ WELD-ON	ALL SOLVENT WELD CONNECTIONS FOR BOTH MAINLINE AND LATERAL LINE SHALL BE MADE USING THE TWO-STEP PROCESS OF PRIMER AND SOLVENT CEMENT. PRIMER SHALL BE LOW VOC "PURPLE PRIMER". MAINLINE SOLVENT CEMENT SHALL BE LOW VOC, "GRAY-HEAVY BODY" CEMENT. LATERAL LINE SOLVENT CEMENT SHALL BE LOW VOC, "RED HOT BLUE GLUE" CEMENT. USE DAUBERS SIZED AT LEAST ONE HALF THE SIZE OF THE LARGEST SIZE PIPE BEING JOINED.					N/A
NO SYMBOL	AS APPROVED	IRRIGATION CONTROL WIRE #14UF AWG DIRECT BURIAL (U.L. APPROVED)					O,P,Q
NO SYMBOL	3M	DBR/Y-6 DIRECT BURIAL WATER-PROOF WIRE CONNECTORS FOR USE ON ALL WIRE CONNECTIONS (U.L. APPROVED)					Q
NO SYMBOL	K.B.I.	KSC-XXX-S SWING CHECK VALVE, LINE SIZE, 1 DOWNSTREAM OF EACH RCV WHEN RCV IS LOWER THAN THE SPRINKLERS					N/A
NO SYMBOL	K.B.I.	KC-XXX-S SPRING CHECK VALVE, LINE SIZE, 1 DOWNSTREAM OF EACH RCV IMMEDIATELY ABOVE FIRST LATERAL LINE TEE, WHEN RCV IS HIGHER THAN THE SPRINKLERS					N/A
NO SYMBOL	CARSON	VALVE BOXES, SIZE PER EQUIPMENT LEGEND, WITH T-COVER LIDS AND CAPTIVE BOLT AND LOC-KIT. FOR ROUND FLUSH VALES AND AIR RELIEF VALVES USE MODEL 708, 10" ROUND SHALL BE MODEL 910, 12" STANDARD RECT. SHALL BE MODEL 1419, 12" JUMBO RECT. SHALL BE MODEL 1220, SUPER JUMBO SHALL BE MODEL 1324, AND SUPER JUMBO XL SHALL BE MODEL 1730. VALVE BOXES SHALL HAVE PURPLE HDPE BODY AND PURPLE LIDS IN SHRUB BEDS. FOR USE IN NON-VEHICULAR TRAFFIC SITUATIONS ONLY. DO NOT INSTALL IN CONCRETE OR ASPHALT.					N/A

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEYNOTES

LICENSED LANDSCAPE ARCHITECT BRAD LEMANSKI 4470 SIGNATURE EXP. 3-31-20 STATE OF CALIFORNIA

GROUNDLEVEL
LANDSCAPE ARCHITECTURE
2605 State Street, Suite B
San Diego, CA 92103
619 234 1010
GroundLevelSD.com
GL PROJECT: 19094

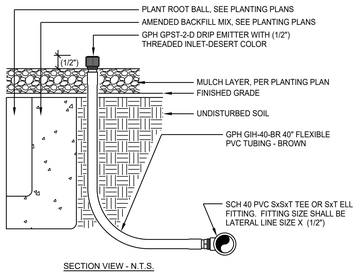
LICENSED ARCHITECT JON KLAN BAKER NO.C14513 EXP. 8-30-19 STATE OF CALIFORNIA

IRRIGATION SCHEDULE & NOTES

NO. DATE ISSUE

PROJECT NO: 14029-13
DATE: 12/13/2019

DRAWING
LI2.01



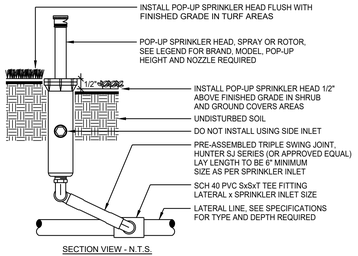
SECTION VIEW - N.T.S.
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NOTE:
INSTALL DRIP EMITTER SO THAT WATER DRIPS DIRECTLY ONTO SOIL.

SWEEP FLEXIBLE PIPE FROM HORIZONTAL UP TO VERTICAL WITHOUT KINKING.

USE TEFLON TAPE ON ALL THREADED CONNECTIONS.

A POINT SOURCE EMITTER

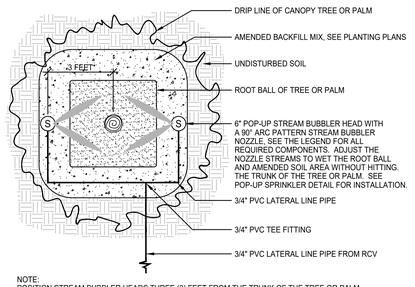


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NOTE:
INSTALL SPRINKLER HEADS 6" FROM PAVING EDGE IN SHRUB AND GROUND COVER AREAS.
INSTALL SPRINKLER HEADS 12" FROM THE FACE OF BUILDING WALLS OR WINDOWS.
INSTALL SPRINKLER HEADS 4" FROM PAVING EDGE IN TURF AREAS.

INSTALL SPRINKLER HEADS PLUMB. ADJUST SPRAYS OR NOZZLE STREAM TO COVER LANDSCAPE AREA WITHOUT OVERSPRAY ONTO PAVING, FENCES, WALLS OR BUILDINGS.

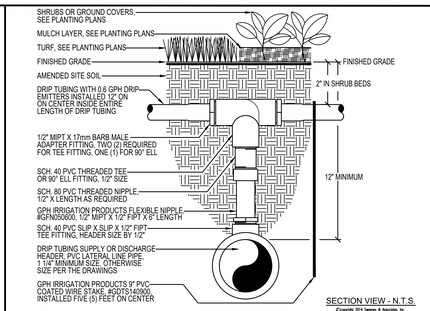
B POP-UP BUBBLER



NOTE:
POSITION STREAM BUBBLER HEADS THREE (3) FEET FROM THE TRUNK OF THE TREE OR PALM.

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C TREE BUBBLER LAYOUT



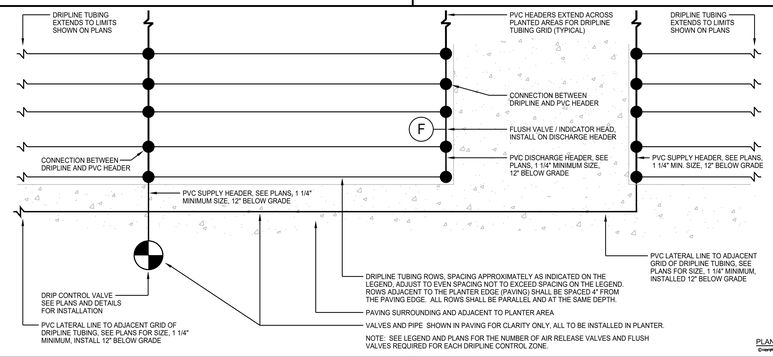
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NOTE:
DRIP TUBING CONNECTION REQUIRED FOR ALL CONNECTIONS BETWEEN DRIP TUBING AND PVC HEADERS.

FOR CONNECTIONS AT END RUNS OF TUBING, USE A 90° ELL FITTING AND ONE ADAPTER FITTING FOR CONNECTION.

FOR CONNECTIONS IN THE MIDDLE OF RUNS OF TUBING, USE A TEE FITTING AND TWO ADAPTER FITTINGS FOR THE CONNECTION.

D DRIPLINE TUBING

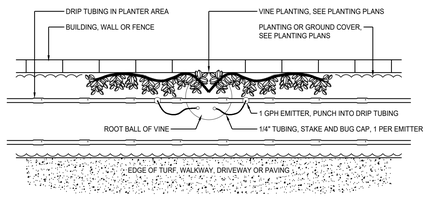


NOTE: SEE LEGEND AND PLANS FOR THE NUMBER OF AIR RELEASE VALVES AND FLUSH VALVES REQUIRED FOR EACH DRIPLINE CONTROL ZONE.

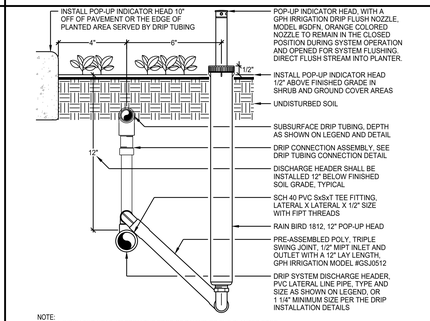
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E DRIP TUBING LAYOUT

NOTE:
1. INSTALL DRIP TUBING IN PLANTERS AS INDICATED ON DRIP TUBING DETAILS.
2. FOR EACH VINE, INSTALL TWO (2) ADDITIONAL 1 GPH DRIP EMITTERS TO PROVIDE ADDITIONAL WATER TO THE VINE.
3. PUNCH EMITTERS INTO THE DRIP TUBING, MINIMUM 3" FROM INTERNAL EMITTERS.
4. USE 1/4" DRIP TUBING, 24" MAXIMUM PER EMITTER, TO DIRECT WATER FROM EMITTER ONTO THE TOP OF THE ROOT BALL OF THE VINE PLANT.
5. INSTALL A PLASTIC TUBING STAKE AND A BUG CAP ONTO THE END OF EACH LENGTH OF 1/4" TUBING FROM THE EMITTER. STAKE 1/4" TUBING DOWN TO THE SOIL GRADE USING WIRE TUBING STAKES, INSTALL STAKES 12" ON CENTER.



F EMITTERS AT VINE PLANTINGS



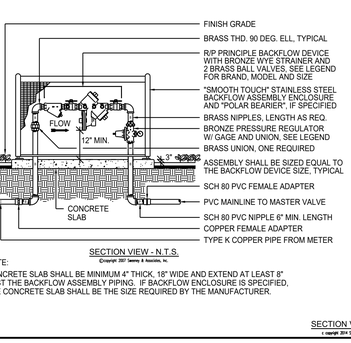
NOTE:
INSTALL INDICATOR HEAD 10" FROM THE EDGE OF PAVING OR THE PLANTER EDGE.

INSTALL ORANGE COLORED INDICATOR NOZZLE ON POP-UP HEAD AND ADJUST TO FULLY CLOSED.

FOR RECYCLED WATER USE A GPH IRRIGATION GDFN-R, PURPLE COLOR CODED FLUSH NOZZLE.

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G DRIP FLUSH/INDICATOR HEAD

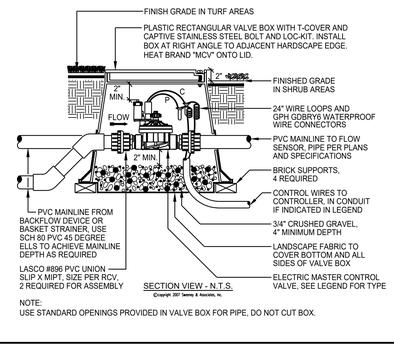


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NOTE:
CONCRETE SLAB SHALL BE MINIMUM 4" THICK, 18" WIDE AND EXTEND AT LEAST 8" PAST THE BACKFLOW ASSEMBLY PIPING. IF BACKFLOW ENCLOSURE IS SPECIFIED, THE CONCRETE SLAB SHALL BE THE SIZE REQUIRED BY THE MANUFACTURER.

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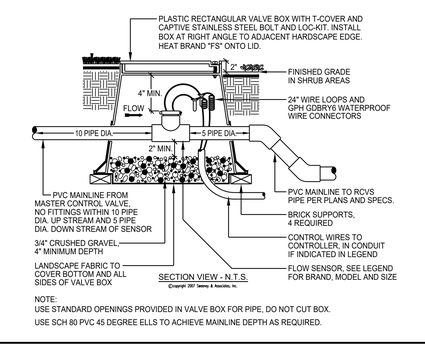
H BACKFLOW DEVICE



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NOTE:
USE STANDARD OPENINGS PROVIDED IN VALVE BOX FOR PIPE, DO NOT CUT BOX.

I MASTER CONTROL VALVE

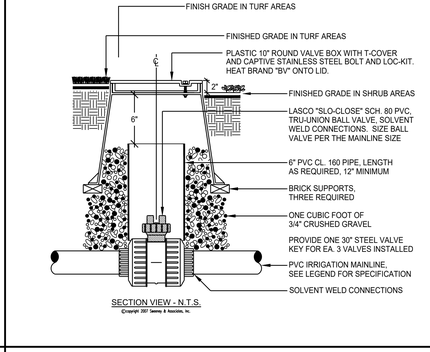


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NOTE:
USE STANDARD OPENINGS PROVIDED IN VALVE BOX FOR PIPE, DO NOT CUT BOX.

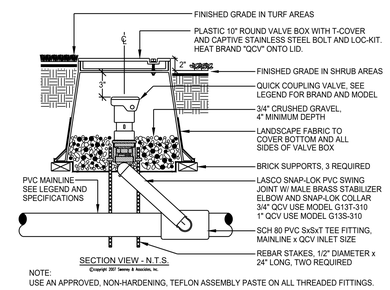
USE SCH 80 PVC 45 DEGREE ELLS TO ACHIEVE MAINLINE DEPTH AS REQUIRED.

J FLOW SENSOR



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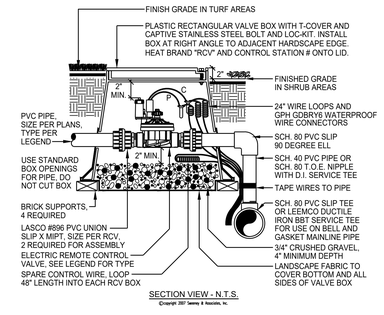
K BALL VALVE



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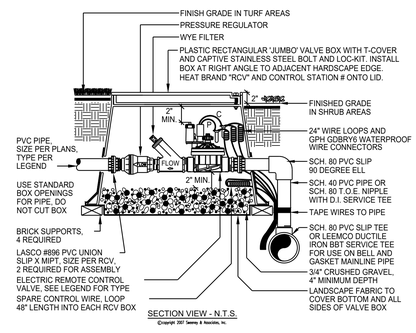
NOTE:
USE AN APPROVED, NON-HARDENING, TEFLON ASSEMBLY PASTE ON ALL THREADED FITTINGS.

L QUICK COUPLER VALVE



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M REMOTE CONTROL VALVE



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N DRIP RCV ASSEMBLY

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KEYNOTES

LICENSED LANDSCAPE ARCHITECT BRAD LENAHAN 4470 SIGNATURE DATE 09-30-19 STATE OF CALIFORNIA

GROUNDLEVEL
LANDSCAPE ARCHITECTURE
2605 State Street, Suite B
San Diego, CA 92103
619 234 1010
GroundLevelSD.com
GL PROJECT: 19094

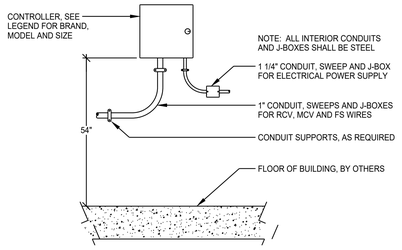
LICENSED ARCHITECT JON ALAN BAKER NO.C14513 EXP. 9-30-19 STATE OF CALIFORNIA

IRRIGATION DETAILS

NO.	DATE	ISSUE

PROJECT NO: 14029-13
DATE: 12/13/2019

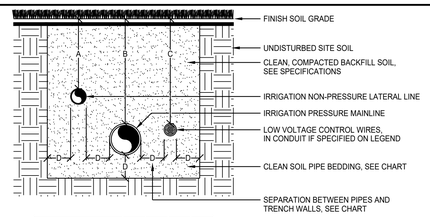
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O CONTROLLER ENCLOSURE



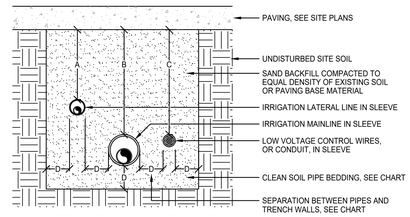
PIPE SIZES	A	B	C	D
SIZES 3/4" TO 2 1/2"	12"	18"	18"	4"
SIZES 3" AND 4"	18"	24"	24"	4"
SIZES 6" AND LARGER	X	30"	24"	6"

NOTE:
CONTRACTOR IS REQUIRED TO CONTACT 811 OR DIGALERT A MINIMUM OF TWO (2) DAYS PRIOR TO ANY EXCAVATION ON THE PROJECT. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG.

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P PIPE INSTALLATION



PIPE SIZES	A	B	C	D
UNDER PEDESTRIAN PAVING	12"	24"	24"	4"
UNDER VEHICULAR PAVING	24"	36"	36"	6"

NOTE:
CONTRACTOR IS REQUIRED TO CONTACT 811 OR DIGALERT A MINIMUM OF TWO (2) DAYS PRIOR TO ANY EXCAVATION ON THE PROJECT. DIAL 811 OR LOG ONTO WWW.DIGALERT.ORG.

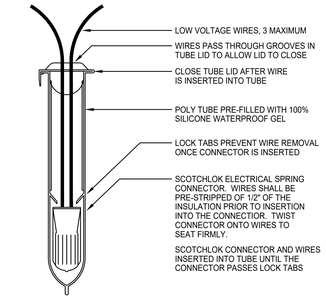
SLEEVES SHALL BE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED WITHIN, EXCEPT WHEN USING BELL AND GASKET PIPING WHERE MAINLINE SLEEVES SHALL BE 2.5 TIMES THE SIZE OF THE PIPE.

SLEEVES SHALL EXTEND 12" PAST THE EDGE OF PAVING INTO THE PLANTER.

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Q SLEEVE INSTALLATION



NOTE:
WIRE CONNECTOR SHALL BE A GPH IRRIGATION GDBRY6 DIRECT BURY SPLICE KIT.

KIT SHALL INCLUDE A SCOTCHLOK SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A 100% SILICONE WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PRE-FILLED WITH GEL.

SECTION VIEW - N.T.S.

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R WIRE CONNECTION

PLAN VIEW - N.T.S.

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NOTE:
THE ACTUAL CONTRACTOR PROPOSED LOCATIONS FOR THE VARIOUS IRRIGATION EQUIPMENT LISTED BELOW SHALL BE REVIEWED AND APPROVED PRIOR TO INSTALLATION. CONTRACTOR SHALL SUBMIT TO THE OWNER AND LANDSCAPE ARCHITECT A SHOP DRAWING FOR VALVE BOX LAYOUTS PRIOR TO INSTALLATION. THE SHOP DRAWING SHALL BE PREPARED TO THE SATISFACTION OF THE OWNER AND LANDSCAPE ARCHITECT. SHOP DRAWINGS MUST INCLUDE LOCATIONS FOR THE FOLLOWING ITEMS: 1) POINT OF CONNECTION (INCLUDING WATER POC, BACKFLOW DEVICES, MASTER CONTROL VALVES, FLOW SENSORS, ETC.), 2) ISOLATION VALVES, 3) AUTOMATIC REMOTE CONTROL VALVES [INDICATE STATION NUMBER AND SIZE], 4) QUICK COUPLING VALVES, 5) DRIP FLUSH VALVES, 6) IRRIGATION CONTROLLER(S), 7) RELATED EQUIPMENT (AS MAY BE DIRECTED). EACH PIECE OF AFOREMENTIONED EQUIPMENT SHALL HAVE IT'S LOCATION INCLUDED ON THE SHOP DRAWINGS; LOCATIONS OF THIS EQUIPMENT SHALL BE INDICATED WITH TWO DIMENSIONS BASED FROM TWO PERMANENT POINTS OF REFERENCE [SUCH AS BUILDINGS, SIDEWALKS, CURBS, STREETLIGHTS, HYDRANTS, ETC.]. WHERE MULTIPLE COMPONENTS ARE INSTALLED WITH NO REASONABLE REFERENCE POINT BETWEEN THE COMPONENTS, DIMENSIONING MAY BASED OFF OF OTHER IRRIGATION EQUIPMENT THAT HAS BEEN DEFINED BY TWO PERMANENT POINTS. ALL SHOP DRAWING IRRIGATION SYMBOLS SHALL BE CLEARLY SHOWN AND SHALL MATCH THE SYMBOLS SHOWN ON THE IRRIGATION LEGEND OF THE DRAWINGS. CONTRACTOR SHALL INSTALL ALL VALVE BOXES AND RELATED EQUIPMENT PER THE OWNER APPROVED SHOP DRAWINGS. ONCE SHOP DRAWING LOCATIONS ARE APPROVED, THE LANDSCAPE ARCHITECT OR OWNER'S AUTHORIZED REPRESENTATIVE WILL ALLOW NO ADJUSTMENTS TO THE APPROVED VALVE BOX PLACEMENT WITHOUT PRIOR WRITTEN ACCEPTANCE.

NOTE:
1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING OF VALVE
2. LOCATE RCV AND VALVE BOX ASSEMBLY IN GROUND COVER / SHRUB AREA WHERE POSSIBLE INSTALL BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO PAVING EDGE.
3. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE OR DEFORMATION OF VALVE BOXES.
4. PLACE VALVE BOXES A MINIMUM OF 24" FROM PAVING EDGE AND INSTALL AT LEAST TWO (2) ROW OF SHRUBS BETWEEN PAVING AND VALVE BOXES.

S VALVE BOX LAYOUT

SECTION VIEW - N.T.S.

T SPLICE BOX

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DEL MAR HEIGHTS SCHOOL

KEYNOTES

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GL PROJECT: 19094

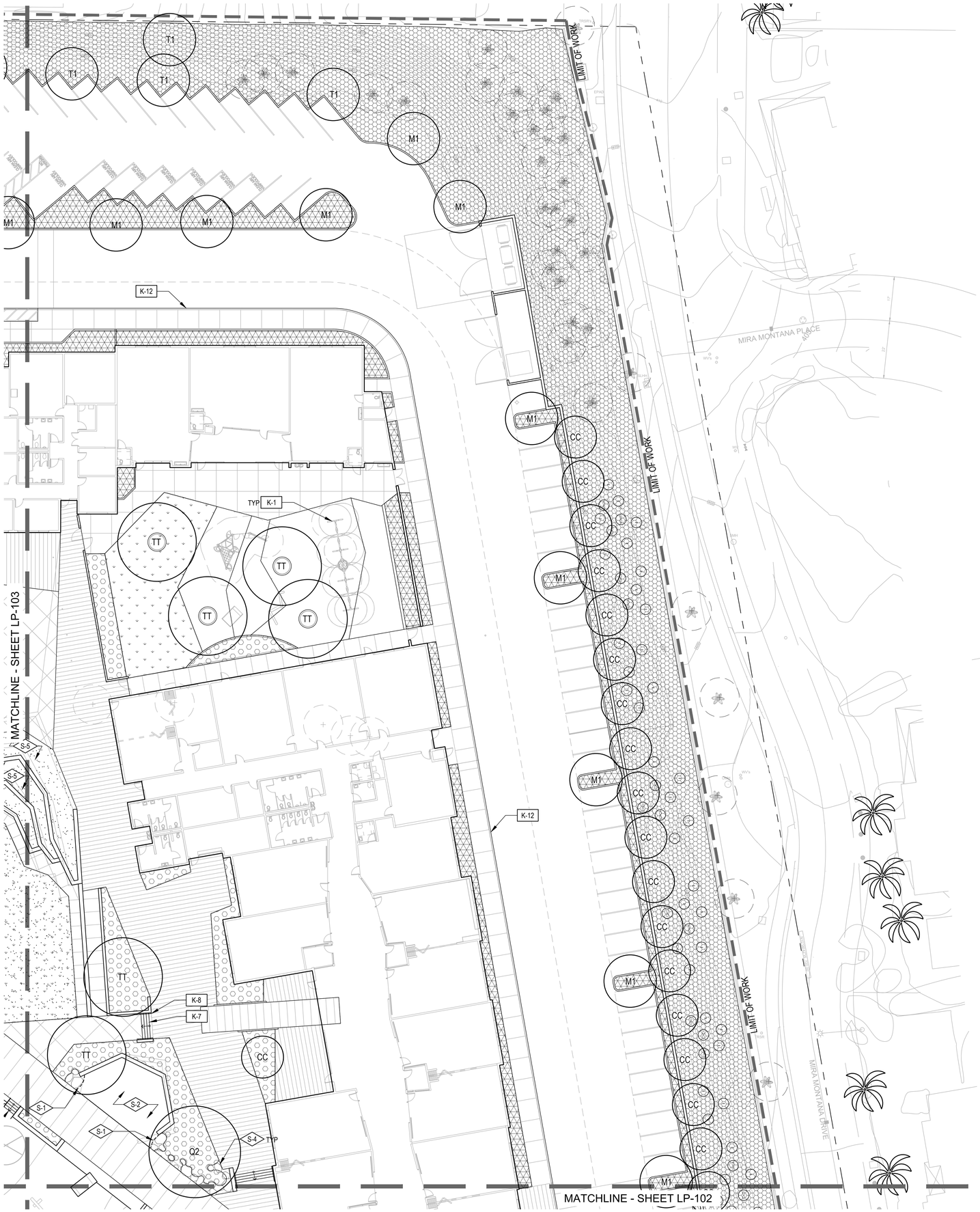
LICENSED ARCHITECT JON ALAN BAKER NO.C14513 EXP. 9-30-13 STATE OF CALIFORNIA

IRRIGATION DETAILS

NO. DATE ISSUE

PROJECT NO: 14029-13
DATE: 12/13/2019

DRAWING
LI3.02



PLANT SCHEDULE

TREES REFER TO DETAILS ON SHEET LP3.01 FOR TREE PLANTING AND STAKING

SYMBOL	SIZE	BOTANICAL NAME	COMMON NAME
CC	36" BOX	CERCIS CANADENSIS 'FOREST PANSY'	EASTERN REDBUD
VA	84" BOX	FICUS RUBIGINOSA	RUSTY LEAF FIG
P2	48" BOX	METROSIDEROS EXCELSA	NEW ZEALAND CHRISTMAS TREE
P3	60" BOX	METROSIDEROS EXCELSA	NEW ZEALAND CHRISTMAS TREE
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EC	60" BOX	QUERCUS AGRIFOLIA	COAST LIVE OAK
C1	48" BOX	TIPUANA TIPU	TIPU TREE

SHRUBS & VINES REFER TO DETAILS ON SHEET LP3.01 AND DETAILS FOR SHRUB & VINE PLANTING

SYMBOL	SIZE	BOTANICAL NAME	COMMON NAME
	40% 1 GAL. 60% 5 GAL.	BOARDWALK DUNE PLANTING: MUHLENBERGIA DUBIA, SPOROBOLUS AIROIDES, BAHIOPSIS LACINATA, DUDLEYA BRITTONII, ACHILLEA MILLEFOLIUM , FELICIA AMELLIOIDES	
	30% 1 GAL. 40% 5 GAL. 30% 15 GAL.	EAST SLOPE PLANTING: BACCHARIS 'PIGEON POINT', COTONEASTER DAMMERI 'LOWFAST', AGAVE SHAWII, CISTUS SALVIIFOLIUS 'PROSTRATUS', SALVIA LEUCOPHYLLA 'POINT SAL SPREADER'.	
	30% 1 GAL. 40% 5 GAL. 30% 15 GAL.	GARDEN PLANTING: LEONOTUS LEONORUS, LOMANDRA LONGIFOLIA 'BREEZE', RAPHIOLEPIS UMBELLATA 'MINOR', MUHLENBERGIA DUBIA, CHONDROPETALUM TECTORUM, DIANELLA 'CLARITY BLUE', SENECIO MANDRALISCAE, VARIOUS ALOE SPECIES, WESTRINGIA FRUTICOSA 'BLUE GEM', SALVIA LEUCANTHA 'SANTA BARBARA', HESPERALOE PARVIFLORA	
	15 GAL	HETEROMELES ARBUTIFOLIA	TOYON
	15 GAL	RHUS INTEGRIFOLIA	LEMONADE BERRY

GROUNDCOVER & SOD REFER TO DETAIL ON SHEET LP3.01 FOR GROUNDCOVER PLANTING

SYMBOL	SIZE	BOTANICAL NAME	COMMON NAME
	SOD	PASPALUM VAGINATUM	ALOHA SEASHORE PASPALUM GRASS

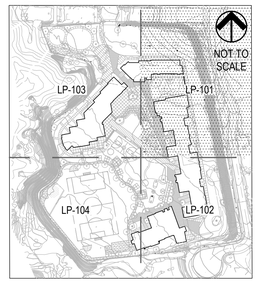
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K-5	ACCESSIBLE CURB RAMPS PER ARCHITECT'S PLAN
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LANDSCAPE SITE ITEMS REFER TO SHEET LC-2.00 FOR FULL PLANT SCHEDULE

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KEYMAP



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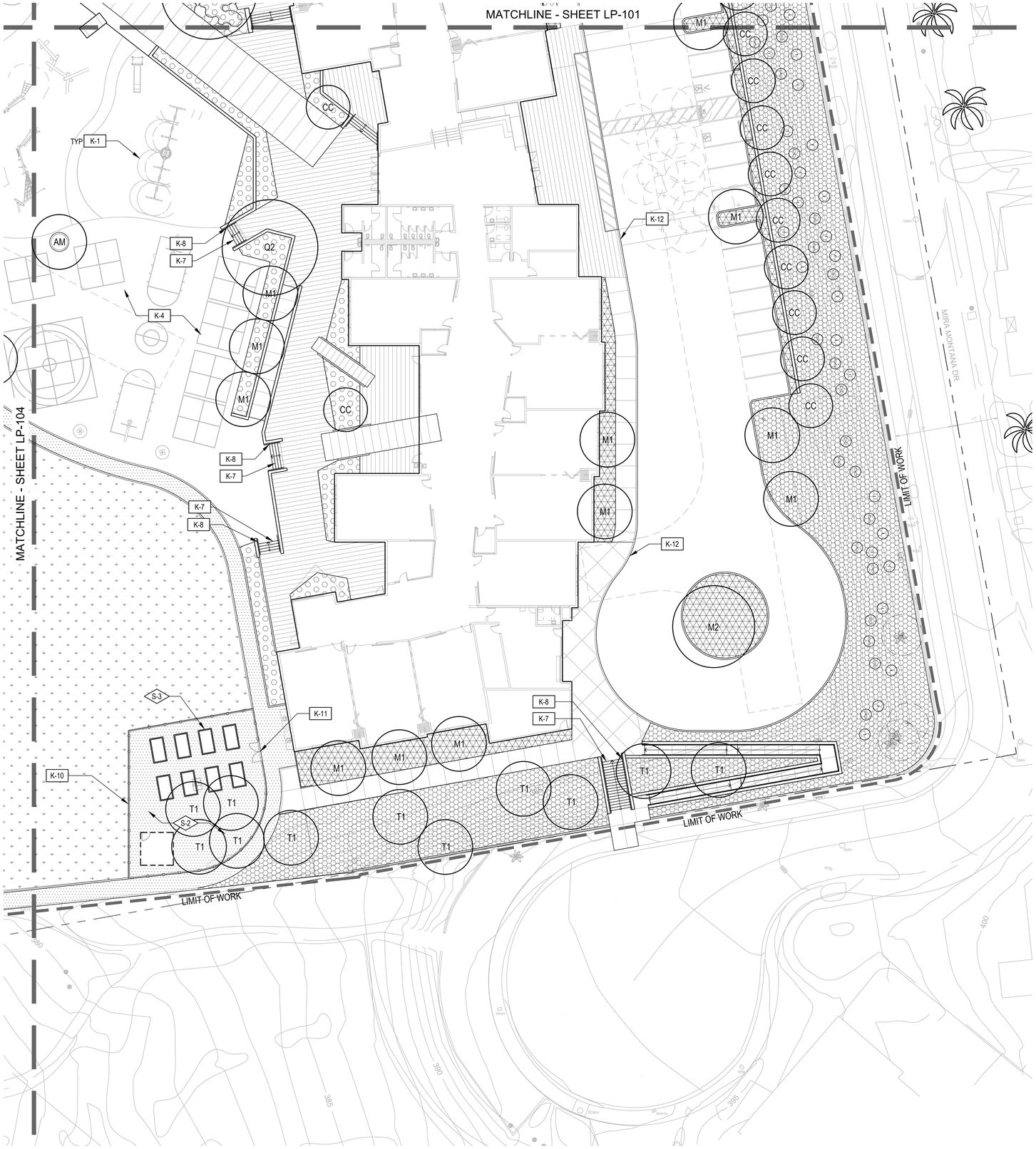
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LANDSCAPE PLANTING PLAN

NO. DATE ISSUE

PROJECT NO: 14029-13
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DRAWING
LP1.01



PLANT SCHEDULE

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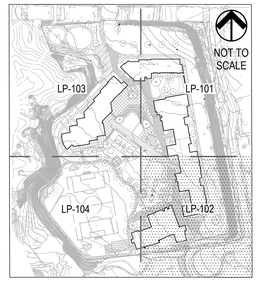
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LANDSCAPE PLANTING PLAN

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LP1.02



PLANT SCHEDULE

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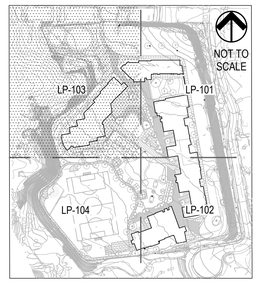
KEYNOTES

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LP1.03

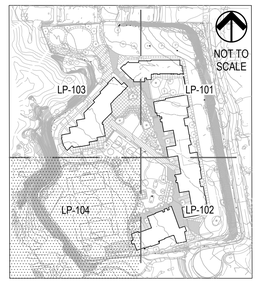


PLANT SCHEDULE			
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DRAWING
LP1.04

PLANTING NOTES

NUMBER	DESCRIPTION
1	TREES ARE STANDARD FORM UNLESS NOTED OTHERWISE.
2	TRIPLE STAKE TREES, UNLESS NOTED OTHERWISE.
3	TREE ROOT BARRIERS SHALL BE INSTALLED WHERE TREES ARE PLACED WITHIN 5 FEET OF PUBLIC IMPROVEMENTS INCLUDING WALKS, CURBS, OR STREET PAVEMENTS OR WHERE NEW PUBLIC IMPROVEMENTS ARE PLACED ADJACENT TO EXISTING TREES. THE ROOT BARRIER WILL NOT WRAP AROUND THE ROOT BALL.
4	WHERE SPREADING GROUNDCOVERS ARE SHOWN TO BE PLANTED ADJACENT TO A CURB OR WALKWAY EDGE, SET CENTER OF PLANT 24" OFF HARD SURFACE.
5	MINIMUM TREE SEPARATION DISTANCE: TRAFFIC SIGNALS / STOP SIGNS..... 20 FT. UNDERGROUND UTILITY LINES.....5 FT (10' FOR SEWER). ABOVE GROUND UTILITY STRUCTURES..... 10 FT. DRIVEWAYS (ENTRIES)..... 10 FT. INTERSECTIONS.....25 FT. (INTERSECTING CURB LINES OF TWO STREETS)
6	ALL LANDSCAPE AND IRRIGATION SHALL CONFORM TO THE STANDARDS OF THE CITY-WIDE LANDSCAPE REGULATIONS AND THE CITY OF DEL MAR LAND DEVELOPMENT MANUAL LANDSCAPE STANDARDS AND ALL OTHER LANDSCAPE RELATED CITY AND REGIONAL STANDARDS.
7	A MINIMUM ROOT ZONE OF 40SF IN AREA SHALL BE PROVIDED FOR ALL TREES. THE MINIMUM DIMENSION FOR THIS AREA SHALL BE 5 FEET, PER SDMC 142.0403(b)(5).
8	MAINTENANCE: ALL REQUIRED LANDSCAPE SHALL BE MAINTAINED BY OWNER. LANDSCAPE AND IRRIGATION IN THE PUBLIC RIGHT-OF-WAY SHALL BE MAINTAINED BY OWNER. THE LANDSCAPE AREAS SHALL BE MAINTAINED FREE OF DEBRIS AND LITTER, AND ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION. DISEASED OR DEAD PLANT MATERIAL SHALL BE SATISFACTORILY TREATED OR REPLACED PER THE CONDITIONS OF THE PERMIT.
9	TREES SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER PEDESTRIAN WALKWAYS ARE 6 FEET ABOVE THE WALKWAY GRADE AND BRANCHES OVER VEHICULAR TRAVEL WAYS ARE 16 FEET ABOVE THE GRADE OF THE TRAVEL WAY PER THE SAN DIEGO MUNICIPAL CODE 142.0403(b)(10).
10	EXISTING TREES TO REMAIN ON SITE WITHIN THE AREA OF WORK WILL BE PROTECTED IN PLACE. THE FOLLOWING PROTECTION MEASURES WILL BE PROVIDED: 1. A BRIGHT YELLOW OR ORANGE TEMPORARY FENCE WILL BE PLACED AROUND EXISTING TREES AT THE DRIP LINE. 2. STOCKPILING, TOPSOIL DISTURBANCE, VEHICLE USE, AND MATERIAL STORAGE OF ANY KIND IS PROHIBITED WITHIN THE DRIP LINE. 3. A TREE WATERING SCHEDULE WILL BE MAINTAINED AND DOCUMENTED DURING CONSTRUCTION. 4. ALL DAMAGED TREES WILL BE REPLACED WITH ONE OF EQUAL OR GREATER SIZE.
11	MULCH: ALL REQUIRED PLANTING AREAS AND ALL EXPOSED SOIL AREAS WITHOUT VEGETATION SHALL BE COVERED WITH MULCH TO A MINIMUM DEPTH OF 3", EXCLUDING SLOPES REQUIRING REVEGETATION PER SDMC 142.0411.
12	IF ANY REQUIRED LANDSCAPE INDICATION ON THE APPROVED CONSTRUCTION DOCUMENT PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE REPAIRED AND/OR REPLACED IN KIND AND EQUIVALENT SIZE PER THE APPROVED DOCUMENTS TO THE SATISFACTION OF THE DEVELOPMENT SERVICES DEPARTMENT WITHIN 30 DAYS OF DAMAGE.
13	IRRIGATION AUDIT: PROJECTS SUBJECT TO THE REQUIREMENT FOR A WATER BUDGET TABLE 142-04I MUST CONDUCT AND SUBMIT TO THE CITY AN IRRIGATION AUDIT CONSISTENT WITH SAN DIEGO MUNICIPAL CODE (SDMC) 142.0413(f) AND SECTION 2.7 OF THE LANDSCAPE STANDARDS OF THE LAND DEVELOPMENT MANUAL PRIOR TO OCCUPANCY AND USE.
14	SOIL SAMPLES SHALL BE TAKEN FROM THE SITE AT THE LANDSCAPE ARCHITECT'S DIRECTIVE AND SENT TO A SOIL ANALYSIS LABORATORY TO PERFORM / PROVIDE SOIL AGRONOMIC TEST REPORT(S) PER SPECIFICATIONS. THIS REPORT SHALL BE PERFORMED PRIOR TO START OF PLANTING.

PLANT SCHEDULE

TREES — REFER TO DETAILS ON SHEET LP3.01 FOR TREE PLANTING AND STAKING

SYMBOL	SIZE	BOTANICAL NAME	COMMON NAME	WUCOLS	DIMENSIONS AT INSTALL: HEIGHT	SPREAD	REMARKS
CC	36" BOX	CERCIS CANADENSIS 'FOREST PANSY'	EASTERN REDBUD	MODERATE	8'	6'	LOW-BRANCHING
VA	84" BOX	FICUS RUBIGINOSA	RUSTY LEAF FIG	MODERATE	16'	8'	MULTI-TRUNK
P2	48" BOX	METROSIDEROS EXCELSA	NEW ZEALAND CHRISTMAS TREE	MODERATE	8'	6'	STANDARD TRUNK
P3	60" BOX	METROSIDEROS EXCELSA	NEW ZEALAND CHRISTMAS TREE	MODERATE	11'	8'	MULTI-TRUNK; LOW BRANCHING
UP	36" BOX	PINUS TORREYANA	TORREY PINE	LOW	13'	5'	STANDARD TRUNK
UR	48" BOX	PINUS TORREYANA	TORREY PINE	LOW	16'	7'	STANDARD TRUNK
AM	36" BOX	QUERCUS AGRIFOLIA	COAST LIVE OAK	VERY LOW	12'	5'	STANDARD TRUNK
EC	60" BOX	QUERCUS AGRIFOLIA	COAST LIVE OAK	VERY LOW	16'	8'	STANDARD TRUNK
C1	48" BOX	TIPUANA TIPU	TIPU TREE	LOW	14'	8'	STANDARD TRUNK

SHRUBS & VINES — REFER TO DETAILS ON SHEET LP3.01 AND DETAILS FOR SHRUB & VINE PLANTING

SYMBOL	SIZE	BOTANICAL NAME	COMMON NAME	WUCOLS	DIMENSIONS AT INSTALL: HEIGHT	WIDTH	REMARKS
	40% 1 GAL. 60% 5 GAL.	BOARDWALK DUNE PLANTING: MUHLENBERGIA DUBIA, SPOROBOLUS AIROIDES, BAHIOPSIS LACINATA, DUDLEYA BRITTONII, ACHILLEA MILLEFOLIUM , FELICIA AMELLIOIDES		LOW TO MODERATE	VARIES	VARIES	-
	30% 1 GAL. 40% 5 GAL. 30% 15 GAL.	EAST SLOPE PLANTING: BACCHARIS 'PIGEON POINT', COTONEASTER DAMMERI 'LOWFAST', AGAVE SHAWII, CISTUS SALVIIFOLIUS 'PROSTRATUS', SALVIA LEUCOPHYLLA 'POINT SAL SPREADER'.		LOW TO MODERATE	VARIES	VARIES	-
	30% 1 GAL. 40% 5 GAL. 30% 15 GAL.	GARDEN PLANTING: LEONOTUS LEONORUS, LOMANDRA LONGIFOLIA 'BREEZE', RAPHIOLEPIS UMBELLATA 'MINOR', MUHLENBERGIA DUBIA, CHONDROPETALUM TECTORUM, DIANELLA 'CLARITY BLUE', SENECIO MANDRALISCAE, VARIOUS ALOE SPECIES, WESTRINGIA FRUTICOSA 'BLUE GEM', SALVIA LEUCANTHA 'SANTA BARBARA', HESPERALOE PARVIFLORA		LOW TO MODERATE	VARIES	VARIES	-
	15 GAL	HETEROMELES ARBUTIFOLIA	TOYON	VERY LOW	30"	18"	@ 48" O.C.
	15 GAL	RHUS INTEGRIFOLIA	LEMONADE BERRY	VERY LOW	24"	18"	@ 48" O.C.

GROUNDCOVER & SOD — REFER TO DETAIL ON SHEET LP3.01 FOR GROUNDCOVER PLANTING

SYMBOL	SIZE	BOTANICAL NAME	COMMON NAME	WUCOLS	DIMENSIONS AT INSTALL: HEIGHT	WIDTH	REMARKS
	SOD	PASPALUM VAGINATUM	ALOHA SEASHORE PASPALUM GRASS	LOW	-	-	-

LANDSCAPE SITE ITEMS

REFER TO DETAILS ON SHEET LP3.01

SYMBOL	DESCRIPTION	MANUFACTURER / SUPPLIER	MATERIAL / PRODUCT NO.	COLOR	FINISH	NOTES	DETAIL
S-1	STEEL EDGING	DURAEDGE	1/4" X 5" DURAEDGE UNPAINTED	UNPAINTED	-	-PROVIDE SAMPLE FOR REVIEW AND APPROVAL	5 / LP-3.02
S-2	STABILIZED DECOMPOSED GRANITE	LOCAL SUPPLIER	CALIFORNIA GOLD	GOLD	RAKED	-PROVIDE SAMPLE FOR REVIEW AND APPROVAL	-
S-3	SCHOOL GARDEN	TBD	TBD	-	-	-	-
S-4	3' TO 4' DIAMETER NATURAL BOULDERS	LOCAL SUPPLIER	TBD	TBD	-	-PROVIDE SAMPLE FOR REVIEW AND APPROVAL	1, 2 / LP-3.02
S-5	ARTIFICIAL TURF	FIELDTURF COMMERCIAL	1-1/2" NUTMEG ULTRA ARTIFICIAL TURF	FIELD GREEN & OLIVE GREEN	NATURAL	- PILE HEIGHT TBD - SET ON 3" LAYER OF AGGREGATE BASE - ARTIFICIAL TURF AREAS SHALL BE TREATED WITH A MIXTURE OF 50% DEODERIZER AND 50% DURAFILL AT 3.0 POUNDS PER SQUARE FOOT	4 / LP 3.02

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731 Ninth Avenue, Suite A, San Diego, California 92101
619.795.2450
www.bndesignstudio.com

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEYNOTES

REGISTERED LANDSCAPE ARCHITECT — MICHAEL BRAD LENARD — 4470 — SIGNATURE — DATE OF 3-31-20 — STATE OF CALIFORNIA

GROUNDLEVEL
LANDSCAPE ARCHITECTURE
2605 State Street, Suite B
San Diego, CA 92103
619 234 1010
GroundLevelSD.com
GL PROJECT: 19094

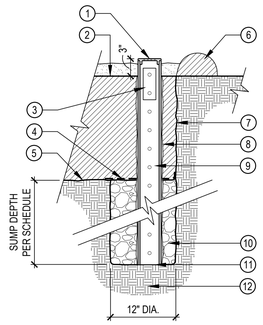
LICENSED ARCHITECT — JON ALAN BAKER — NO.C14513 — EXP. 9-30-19 — STATE OF CALIFORNIA

LANDSCAPE PLANTING SCHEDULE

NO. DATE ISSUE

PROJECT NO: 14029-13
DATE: 12/13/2019

DRAWING
LP2.00



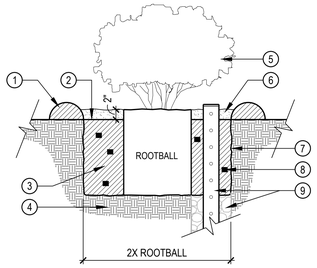
LEGEND
1. DRAIN GRATE PER SPECIFICATIONS
2. FINISH GRADE
3. DUCT TAPE HOLES WITHIN 6" OF FINISHED GRADE
4. GEOTEXTILE FABRIC OVER SUMP
5. BOTTOM OF PLANT PIT
6. WATERING BASIN
7. PLANT PIT
8. GEOTEXTILE DRAIN "SOCK"
9. PERFORATED DRAIN PIPE - SIZE AND QUANTITY PER SCHEDULE
10. 3/4" CRUSHED ROCK SUMP BACKFILL (NO ROCK IN PIPE)
11. "TIE OFF" SOCK TO CLOSE END
12. NATIVE SOIL

SCHEDULE

PLANT SIZE	PIPE QTY.	PIPE SIZE	SUMP DEPTH
15 GALLON	(1)	3"	3'-0"
24" BOX	(1)	4"	4'-0"
≥ 36" BOX	(2)	4"	4'-0"

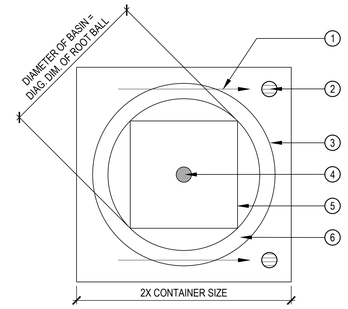
9 BREATHER TUBE WITH SUMP
SCALE: N.T.S.

LEGEND
1. 3" WATERING BASIN FORMED WITH BACKFILL SOIL MIX AROUND PLANT PIT
2. FINISH GRADE
3. PIT BACKFILL MIX PER SPECIFICATIONS
4. NATIVE SOIL
5. CONTAINER PLANT
6. MULCH LAYER
7. SCARIFY SIDES OF PIT
8. FERTILIZER TABLETS PER SPECIFICATIONS, INSTALL SO THEY DO NOT TOUCH ROOTBALL
9. BREATHER TUBE WITH SUMP PER DETAIL 9/LP-3.01 FOR 15 GALLON SIZE PLANTS AND LARGER IF INDICATED ON PLANT MATERIAL LEGEND



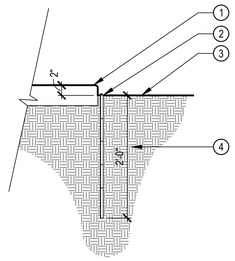
5 CONTAINER SHRUB PLANTING
SCALE: N.T.S.

LEGEND
1. BOTTOM OF TREE PIT SLOPES TO SUMP DRAINS
2. BREATHER TUBE / SUMP DRAIN, SEE DETAIL
3. PLANT PIT
4. TREE TRUNK
5. ROOT BALL
6. BERM AROUND WATERING BASIN



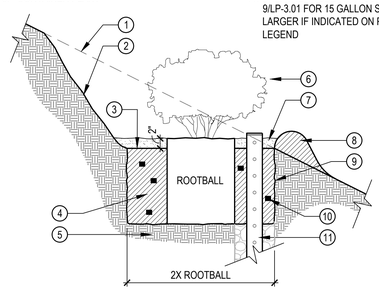
1 TREE PLANTING PLAN
SCALE: N.T.S.

LEGEND
1. PAVING, CURB, OR HEADER PER PLAN
2. ROOT BARRIER SEE SPECS
3. FINISHED GRADE (SEE PLANS AND SPECS FOR MULCH)
4. COMPACTED SUBGRADE PER SPECS



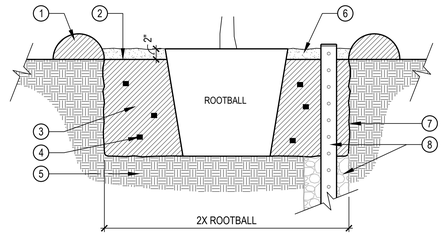
10 ROOT BARRIER
SCALE: 1" = 1'-0"

LEGEND
1. CUT LINE OF EXISTING SLOPE
2. CUT BACK FOR PLANT PIT TO 1:1 SLOPE
3. FINISH GRADE
4. PIT BACKFILL MIX PER SPECIFICATIONS
5. NATIVE SOIL
6. CONTAINER PLANT
7. MULCH LAYER
8. 3" EARTH BERM ON DOWNHILL SIDE
9. SCARIFY SIDES OF PIT
10. FERTILIZER TABLET PER SPECIFICATIONS, INSTALL SO THEY DO NOT TOUCH ROOTBALL
11. BREATHER TUBE WITH SUMP PER DETAIL 9/LP-3.01 FOR 15 GALLON SIZE PLANTS AND LARGER IF INDICATED ON PLANT MATERIAL LEGEND

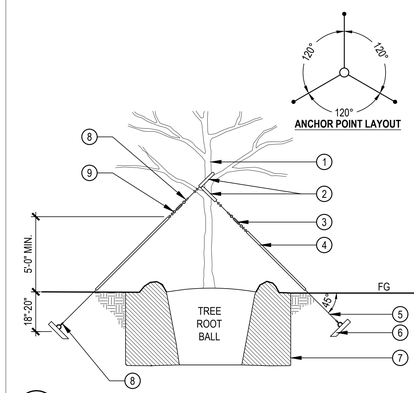


6 CONTAINER SHRUB PLANTING ON SLOPE
SCALE: N.T.S.

LEGEND
1. 3" WATERING BASIN FORMED WITH BACKFILL SOIL MIX AROUND PLANT PIT
2. FINISH GRADE
3. PIT BACKFILL MIX PER SPECIFICATIONS
4. FERTILIZER TABLETS PER SPECIFICATIONS, INSTALL SO THEY DO NOT TOUCH ROOTBALL
5. NATIVE SOIL
6. MULCH LAYER
7. SCARIFY SIDES OF PIT
8. BREATHER TUBE WITH SUMP PER DETAIL 9/LP-3.01 FOR 15 GALLON SIZE PLANTS AND LARGER IF INDICATED ON PLANT MATERIAL LEGEND



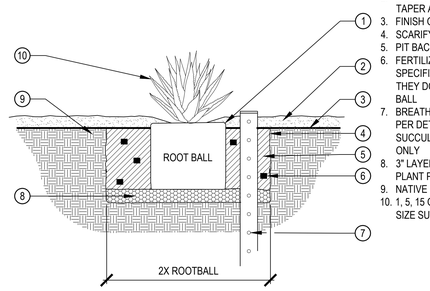
2 TREE PLANTING
SCALE: N.T.S.



LEGEND
1. BOX SIZE TREE
2. HOSE CABLE GUARD
3. TURNBUCKLE
4. PVC SLEEVE
5. GUYING CABLE
6. ANCHOR, TYP. OF (3)
7. TREE PLANTING PER DETAIL 1,3 / LP2.01
8. SWEDGED CONNECTION
9. CABLE CLAMPS AT EACH SIDE OF TURNBUCKLE

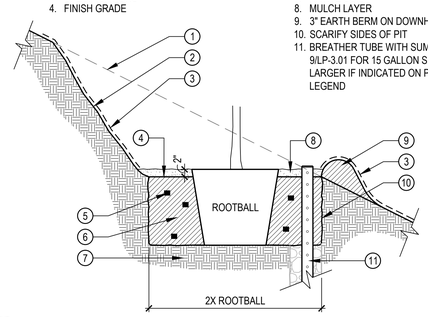
11 TREE GUYING - 48" BOX OR LARGER
SCALE: N.T.S.

LEGEND
1. PLANT SO ROOT BALL IS 1"-2" ABOVE FINISH GRADE
2. MULCH LAYER PER PLAN, TAPER AT ROOT BALL
3. FINISH GRADE
4. SCARIFY SIDES OF PIT
5. PIT BACKFILL MIX PER SPECS
6. FERTILIZER TABLETS PER SPECIFICATIONS. INSTALL SO THEY DO NOT TOUCH ROOT BALL
7. BREATHER TUBE WITH SUMP PER DETAIL 9/LP-301 - 15 GAL SUCCULENT SIZE OR LARGER ONLY
8. 3" LAYER OF 1" LAVA ROCK IN PLANT PIT
9. NATIVE SOIL
10. 1, 5, 15 GALLON OR 24" BOX SIZE SUCCULENT PLANT

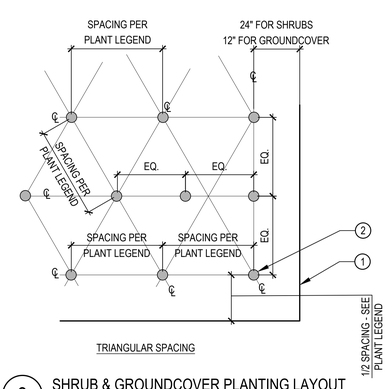


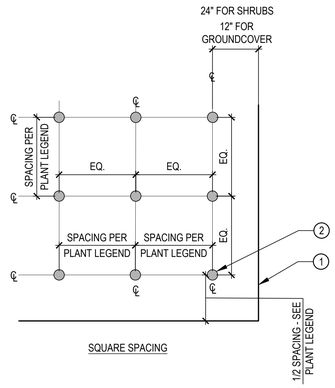
7 SUCCULENT PLANTING
SCALE: N.T.S.

LEGEND
1. CUT LINE OF EXISTING SLOPE
2. CUT BACK FOR PLANT PIT TO 1:1 SLOPE
3. EROSION CONTROL MATERIAL PER SPECIFICATIONS
4. FINISH GRADE
5. FERTILIZER TABLET PER SPECIFICATIONS, INSTALL SO THEY DO NOT TOUCH ROOTBALL
6. PLANT PIT BACKFILL PER SPECIFICATIONS
7. NATIVE SOIL
8. MULCH LAYER
9. 3" EARTH BERM ON DOWNHILL SIDE
10. SCARIFY SIDES OF PIT
11. BREATHER TUBE WITH SUMP PER DETAIL 9/LP-3.01 FOR 15 GALLON SIZE PLANTS AND LARGER IF INDICATED ON PLANT MATERIAL LEGEND



3 TREE PLANTING ON SLOPE
SCALE: 1:1



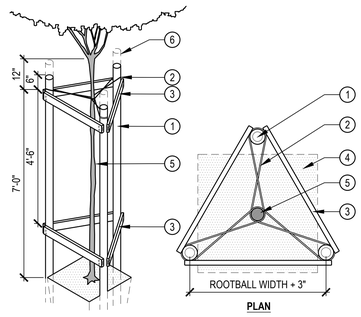


LEGEND
1. PLANTING EDGE (I.E., EDGE OF CURB / EDGE OF PAVING / FACE OF WALL / EDGE OF HEADER, ETC.)
2. CENTER OF PLANT MATERIAL

NOTES:

A. PLANT SPACING SHALL BE ADJUSTED TO BEGIN AND END SPACING WITH A PLANT AT CORNERS / CHANGES IN DIRECTION OF PLANTING EDGE

8 SHRUB & GROUNDCOVER PLANTING LAYOUT
N.T.S.



LEGEND
1. WOOD TREE STAKES (3). (SEE SPECIFICATIONS)
2. INSTALL (3) TREE TIES PER TREE. (SEE SPECIFICATIONS)
3. 1"x 3" WOOD BRACE, (6) PER TREE, SECURE TO STAKES WITH (2) 2" GALVANIZED WOOD SCREWS AT EACH END. PRE-DRILL 1"x 3" WOOD BRACE TO PREVENT SPLITTING.
4. TREE ROOT BALL
5. TREE TRUNK
6. CUT OFF STAKES AS NEEDED TO CLEAR BRANCHES AND BE UNIFORM IN HEIGHT

NOTES
A. BRACES AND TOPS OF ALL STAKES TO BE LEVEL WITH EACH OTHER.
B. SEE SPECIFICATIONS FOR TREE STAKING METHODS & MATERIALS

4 TREE STAKING TRIPLE (36" BOX AND SMALLER)
SCALE: N.T.S.

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEYNOTES

LICENSED LANDSCAPE ARCHITECT BRAD LEMANSKI 4470 SIGNATURE EXP. 1-31-20 STATE OF CALIFORNIA

GROUNDLEVEL
LANDSCAPE ARCHITECTURE
2605 State Street, Suite B
San Diego, CA 92103
619 234 1010
GroundLevelSD.com
GL PROJECT: 19094

LICENSED ARCHITECT JON KLAN BAKER NO.C14513 EXP. 9-30-19 STATE OF CALIFORNIA

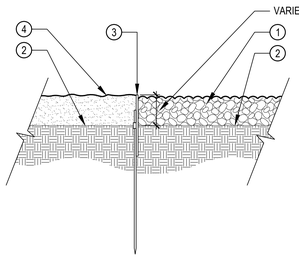
LANDSCAPE PLANTING DETAILS

NO.	DATE	ISSUE

PROJECT NO: 14029-13
DATE: 12/13/2019

DRAWING
LP3.01

LEGEND
1. DECORATIVE GRAVEL PER MULCH PLAN
2. FINISH GRADE
3. STEEL HEADER PER CONSTRUCTION SCHEDULE
4. MULCH LEVEL IN ADJACENT PLANTING AREA



5 STEEL HEADER
SCALE: 3" = 1'-0"

NOTES:

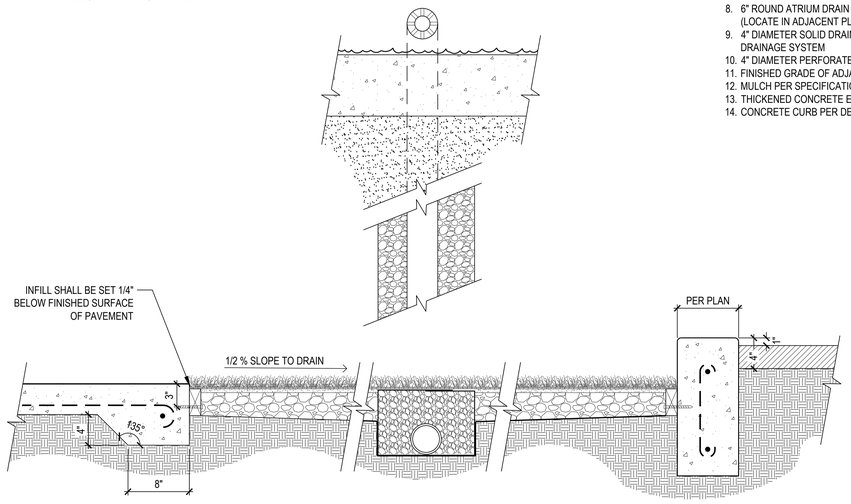
A. ATTACH ARTIFICIAL TURF PER MANUFACTURER'S RECOMMENDATION
B. SYNTHETIC TURF SHALL HAVE MAXXFLOW™ DRAINAGE SYSTEM (WEED BARRIER INTEGRATED INTO SYSTEM)
C. MINIMUM OF (1) DRAIN PER 900 SQUARE FEET OF ARTIFICIAL TURF

CONTACTS:

A. ENVIROFILL AVAILABLE THOUGH US GREEN TECH, 888-324-6041, USGREENTECH.COM
B. 'DURAFILL' AVAILABLE THROUGH SYNTHETIC GLASS WAREHOUSE, 800-730-2675, SYNTHETICGRASSWAREHOUSE.COM

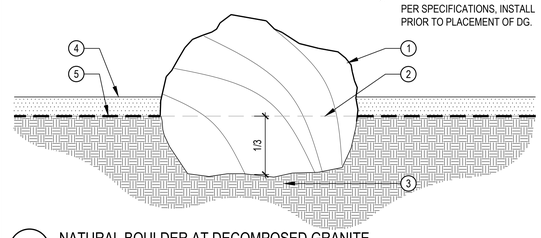
LEGEND

1. ARTIFICIAL TURF PER CONSTRUCTION SCHEDULE
2. 'ENVIROFILL SPORTS' ACRYLIC COATED SAND OR ' DURAFILL' ANTI-MICROBIAL CERAMIC COATED SILICA SAND
3. 2"x4" SYNTHETIC NAILER BOARD AROUND ENTIRE PERIMETER OF ARTIFICIAL TURF, 3.5" 'TAPCON' SCREW ATTACHMENT TO ADJACENT PAVING EDGING @ 3" FROM EACH END AND EQUALLY SPACED 30" O.C. MAXIMUM.
4. 1/2" DEPTH DECOMPOSED GRANITE COMPACTED TO 95%
5. CLASS II ROAD BASE COMPACTED TO 95%
5. 3/8" WASHED CLEAN CONSTRUCTION AGGREGATE COMPACTED TO 95%. (1) CUBIC FOOT OF AGGREGATE PER (1) LINEAR FOOT OF DRAIN PIPE
6. COMPACTED SUBGRADE PER GEOTECHNICAL REPORT
7. FILTER FABRIC WRAP AROUND AGGREGATE (8" OVERLAP). PER SPECIFICATIONS.
8. 6" ROUND ATRIUM DRAIN GRATE, SEE PLAN FOR LOCATIONS. (LOCATE IN ADJACENT PLANTING AREA)
9. 4" DIAMETER SOLID DRAIN PIPE. CONNECT TO ADJACENT DRAINAGE SYSTEM
10. 4" DIAMETER PERFORATED DRAIN PIPE
11. FINISHED GRADE OF ADJACENT PLANTING AREA
12. MULCH PER SPECIFICATIONS
13. THICKENED CONCRETE EDGE PER DETAIL X/LCXXX
14. CONCRETE CURB PER DETAIL X/LCXXX



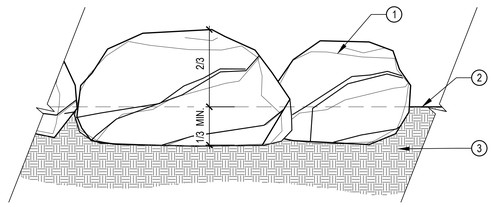
4 ARTIFICIAL TURF WITH FRENCH DRAIN
SCALE: 1 1/2" = 1'-0"

LEGEND
1. BOULDER, LOCATION AND TYPE PER CONSTRUCTION PLAN.
2. BURY 1/3 (MIN) OF ROCK MASS BELOW GRADE.
3. 90% COMPACTED SUBGRADE.
4. STABILIZED DECOMPOSED GRANITE (DG), TYPE AND DEPTH PER CONSTRUCTION PLAN.
5. PRE-EMERGENT HERBICIDE PER SPECIFICATIONS, INSTALL PRIOR TO PLACEMENT OF DG.

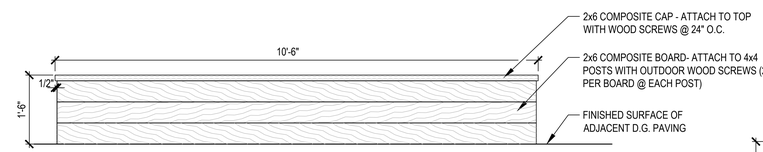


1 NATURAL BOULDER AT DECOMPOSED GRANITE
SCALE: 1 1/2" = 1'-0"

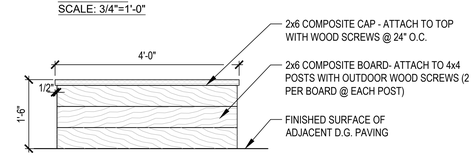
LEGEND
1. BOULDERS - SIZE VARIES, BURY 1/3 MIN. COORDINATE EXACT LOCATION ON SITE WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION
2. FINISH GRADE
3. BASE AND SUBGRADE PREPARATION PER GEOTECHNICAL REPORT



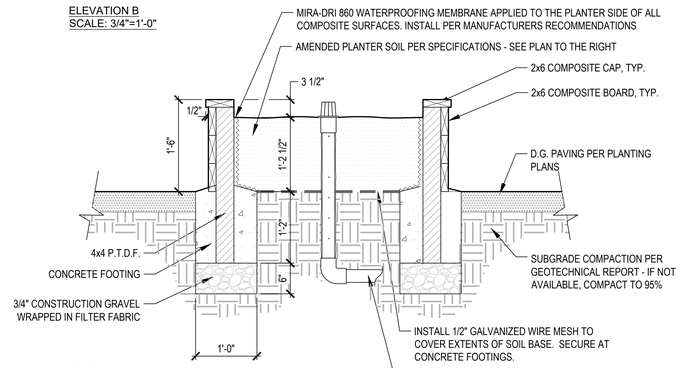
2 NATURAL BOULDERS
SCALE: 1" = 1'-0"



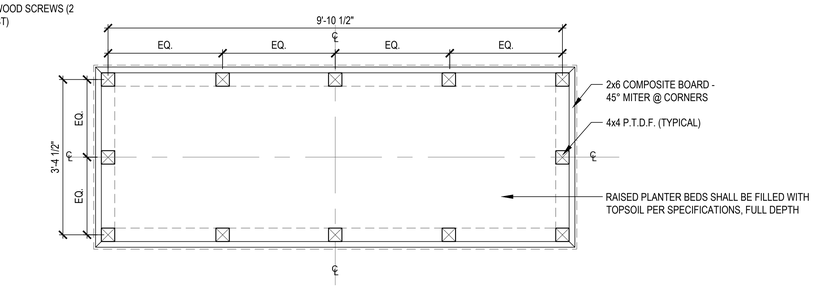
ELEVATION A
SCALE: 3/4"=1'-0"



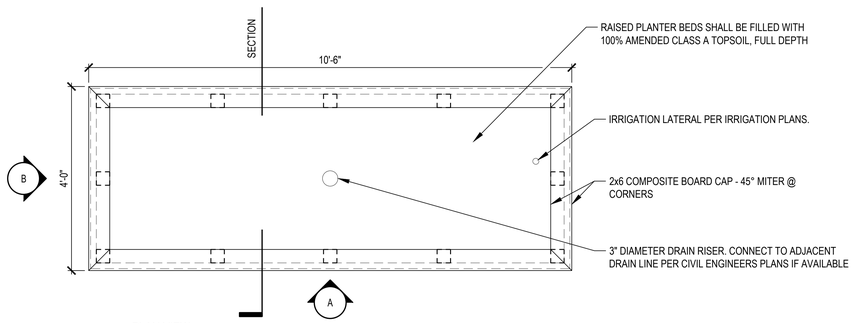
ELEVATION B
SCALE: 3/4"=1'-0"



SECTION
SCALE: 1"=1'-0"



PLAN VIEW C - FRAMING
SCALE: 3/4"=1'-0"



PLAN VIEW
SCALE: 3/4"=1'-0"

3 RAISED PLANTER BED
SCALE: N.T.S.

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEYNOTES

LICENSED LANDSCAPE ARCHITECT — EDWARD LENKIN — 4470 — SIGNATURE — DATE 9-30-19 — STATE OF CALIFORNIA

GROUNDLEVEL
LANDSCAPE ARCHITECTURE
2605 State Street, Suite B
San Diego, CA 92103
619 234 1010
GroundLevelSD.com
GL PROJECT: 19094

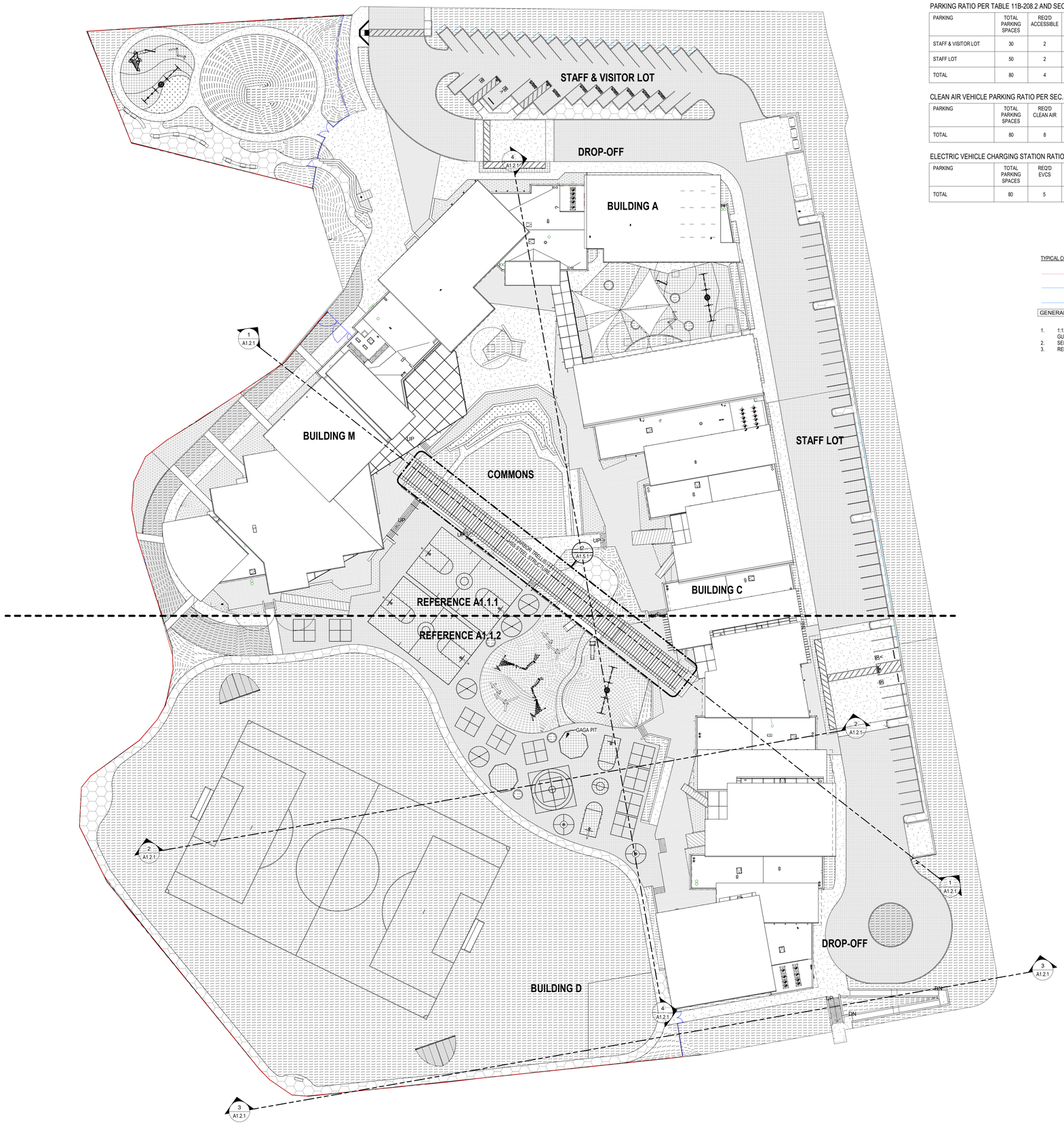
LICENSED ARCHITECT — JON ALAN BAKER — NO.C14513 — EXP. 9-30-19 — STATE OF CALIFORNIA

LANDSCAPE PLANTING DETAILS

NO. DATE ISSUE

PROJECT NO: 14029-13
DATE: 12/13/2019

DRAWING
LP3.02



1 SITE PLAN - OVERALL
1" = 30'-0"

PARKING RATIO PER TABLE 11B-208.2 AND SEC. 11B-208.2.4

PARKING	TOTAL PARKING SPACES	REQ'D ACCESSIBLE	REQ'D VAN ACCESSIBLE	PROVIDED ACCESSIBLE	PROVIDED VAN ACCESSIBLE
STAFF & VISITOR LOT	30	2	1	2	1
STAFF LOT	50	2	1	2	1
TOTAL	80	4	2	4	2

CLEAN AIR VEHICLE PARKING RATIO PER SEC. 5.106.5.2

PARKING	TOTAL PARKING SPACES	REQ'D CLEAN AIR	PROVIDED CLEAN AIR
TOTAL	80	8	8

ELECTRIC VEHICLE CHARGING STATION RATIO PER SEC. 5.106.5.3 AND TABLE 11B-228.3.2.1

PARKING	TOTAL PARKING SPACES	REQ'D EVCS	REQ'D EVCS ACCESSIBLE	REQ'D EVCS VAN ACCESSIBLE	PROVIDED EV CHARGING	PROVIDED ACCESSIBLE	PROVIDED VAN ACCESSIBLE
TOTAL	80	5	1	1	5	1	1

TYPICAL CONCRETE CONTROL AND EXPANSION JOINTS



GENERAL NOTES

1. 1:12 MAX. SLOPE FOR A CURVED RAMP IS MEASURED AT FACE OF GUIDECURB/GUIDERAIL ON THE TIGHTER CURVATURE SIDE.
2. SEE SHEET A1.1.1 FOR SITE SIGNAGE DETAILS.
3. REFER TO CIVIL SHEETS FOR ALL SLOPES & ELEVATIONS.

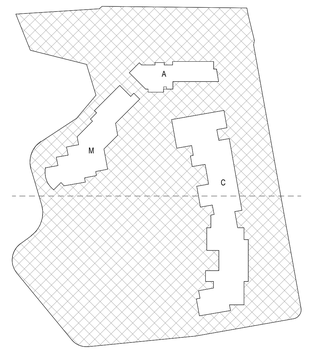
FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

KEYNOTES

LEGEND

- DECORATIVE METAL FENCE
- 8FT BLACK VINYL COATED CHAINLINK FENCE WITH SNAKE FENCING
- PROPERTY LINE
- ASPHALT - 321216
- LANDSCAPE - ARTIFICIAL TURF
- GRASS COVERED POROUS FLEXIBLE PAVING
- LANDSCAPE - DECOMPOSED GRANITE
- LANDSCAPE - TURF - 323118
- LANDSCAPE - SAND
- PAVING TYPE A - NATURAL GRAY CONCRETE W/ BROOM FINISH - 321316
- PAVING TYPE B - INTEGRAL COLORED CONCRETE W/ MEDIUM ETCHED FINISH - 321316
- PAVING TYPE C - PATTERNED STAMPED INTEGRAL COLOR CONCRETE 'COLOR TBD' W/ MEDIUM ETCHED FINISH - 321316
- PLAYGROUND PROTECTIVE SURFACING - 321816.13



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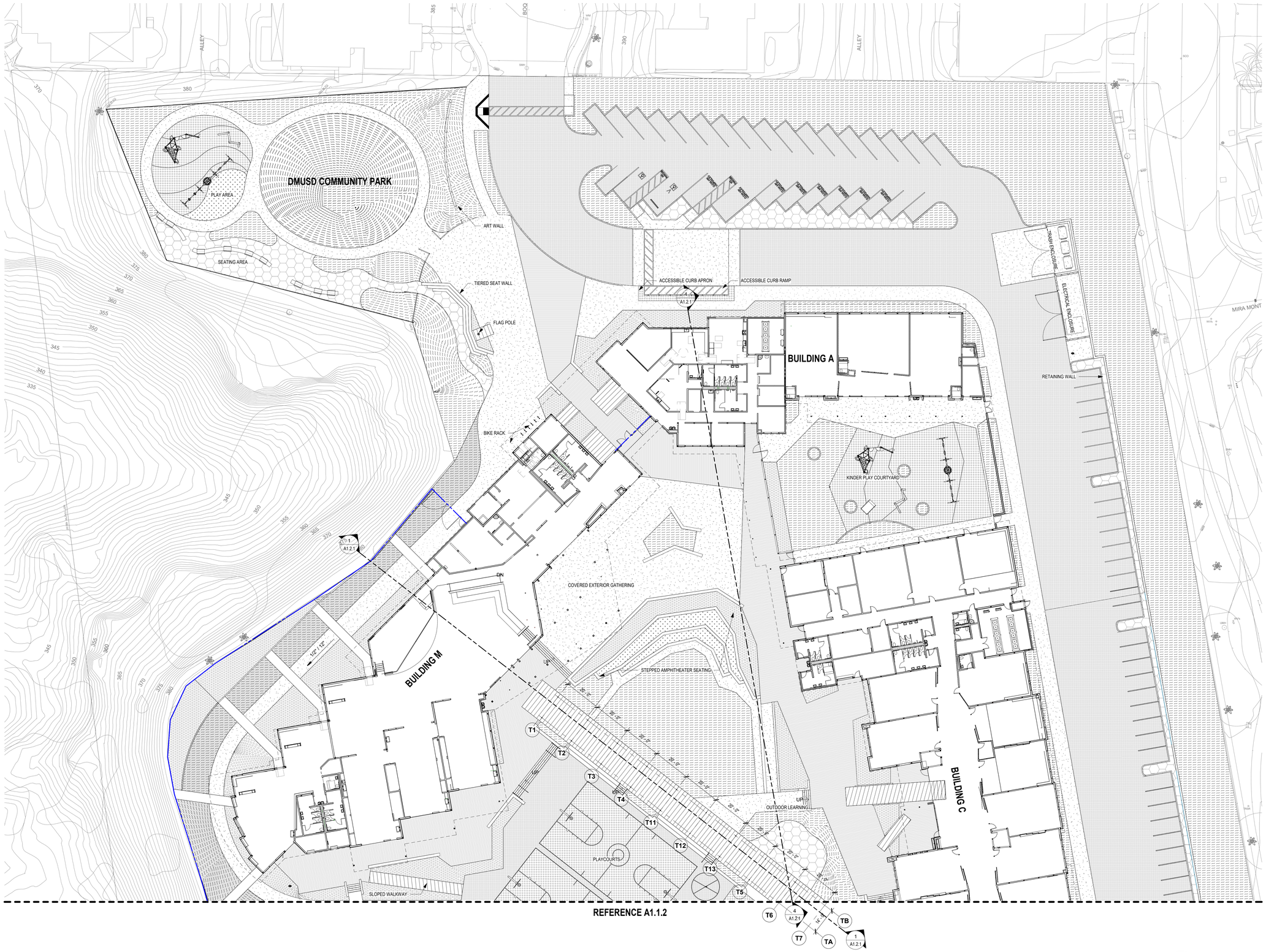
SITE
OVERALL SITE PLAN

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
A1.0.1

BIM 360://19009-00 Del Mar Heights ES/ARCH-BNDS-DMHS.rvt
2/24/2020 7:46:08 AM



1 SITE PLAN - ENLARGED - NORTH
1" = 20'-0"

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

KEYNOTES

LEGEND

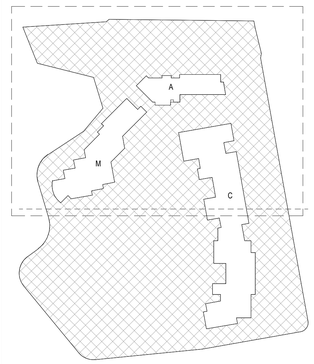
- DECORATIVE METAL FENCING
- CHAINLINK FENCING
- PROPERTY LINE
- ASPHALT - 321216
- LANDSCAPE - ARTIFICIAL TURF
- GRASS COVERED POROUS FLEXIBLE PAVING
- LANDSCAPE - DECOMPOSED GRANITE
- LANDSCAPE - TURF - 323118
- LANDSCAPE - SAND
- PAVING TYPE A - NATURAL GRAY CONCRETE W/ BROOM FINISH - 321316
- PAVING TYPE B - COLORED CONCRETE W/ MEDIUM ETCHED FINISH - 321316
- PAVING TYPE C - BOARD FORMED INTEGRAL COLOR CONCRETE 'COLOR TBD' W/ MEDIUM ETCHED FINISH - 321316
- PLAYGROUND PROTECTIVE SURFACING - 321816.13

TYPICAL CONCRETE CONTROL AND EXPANSION JOINTS

- EXPANSION
- CONTROL

GENERAL NOTES

1. 1:12 MAX. SLOPE FOR A CURVED RAMP IS MEASURED AT FACE OF GUIDECURB/GUIDERAIL ON THE TIGHTER CURVATURE SIDE.
2. SEE SHEET A1.1.1 FOR SITE SIGNAGE DETAILS.
3. REFER TO CIVIL SHEETS FOR ALL SLOPES & ELEVATIONS.



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SITE
ENLARGED SITE PLAN - 1

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
A1.1.1

BIM 360://19009-00 Del Mar Heights ES/ARCH-BN3S-DMHS.rvt
2/24/2020 7:46:21 AM



1 SITE PLAN - ENLARGED - SOUTH
1" = 20'-0"

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

LEGEND

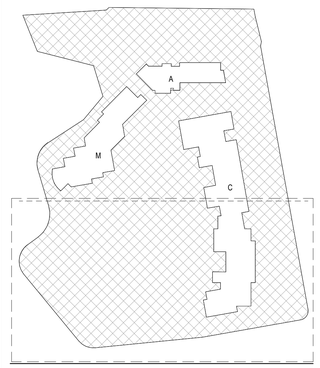
- DECORATIVE METAL FENCING
- CHAINLINK FENCING
- PROPERTY LINE
- ASPHALT - 321216
- LANDSCAPE - ARTIFICIAL TURF
- GRASS COVERED POROUS FLEXIBLE PAVING
- LANDSCAPE - DECOMPOSED GRANITE
- LANDSCAPE - TURF - 323118
- LANDSCAPE - SAND
- PAVING TYPE A - NATURAL GRAY CONCRETE W/ BROOM FINISH - 321316
- PAVING TYPE B - COLORED CONCRETE W/ MEDIUM ETCHED FINISH - 321316
- PAVING TYPE C - BOARD FORMED INTEGRAL COLOR CONCRETE 'COLOR TBD' W/ MEDIUM ETCHED FINISH - 321316
- PLAYGROUND PROTECTIVE SURFACING - 321816.13

TYPICAL CONCRETE CONTROL AND EXPANSION JOINTS

- EXPANSION
- CONTROL

GENERAL NOTES

1. 1:12 MAX. SLOPE FOR A CURVED RAMP IS MEASURED AT FACE OF GUIDECURB/GUIDERAIL ON THE TIGHTER CURVATURE SIDE.
2. SEE SHEET A1.1.1 FOR SITE SIGNAGE DETAILS.
3. REFER TO CIVIL SHEETS FOR ALL SLOPES & ELEVATIONS.



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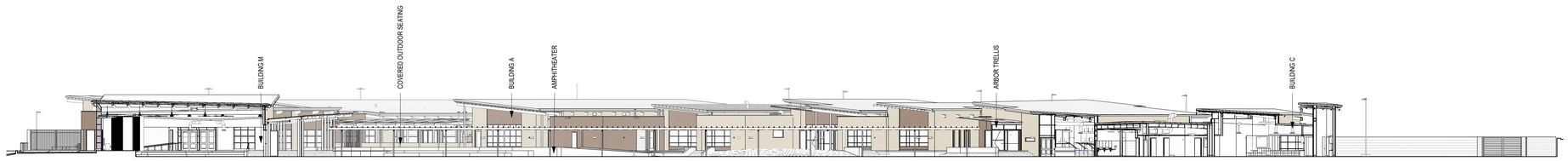
SITE
ENLARGED SITE PLAN - 2

NO. DATE ISSUE

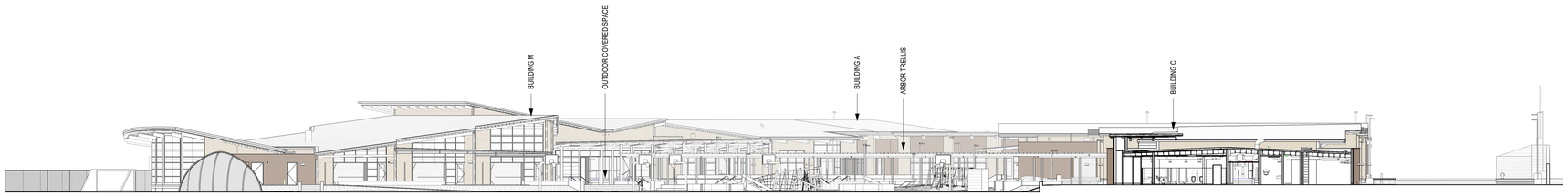
PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
A1.1.2

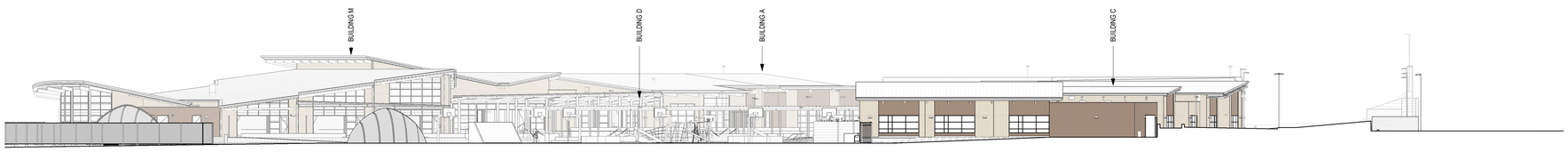
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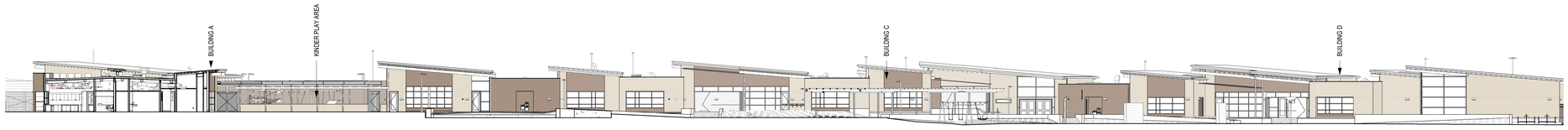
1 SITE SECTION THROUGH ARBOR LOOKING NORTH
1" = 20'-0"



2 SITE SECTION THROUGH COMMONS LOOKING NORTH
1" = 20'-0"



3 SITE SECTION ALONG BUILDING D LOOKING NORTH
1" = 20'-0"

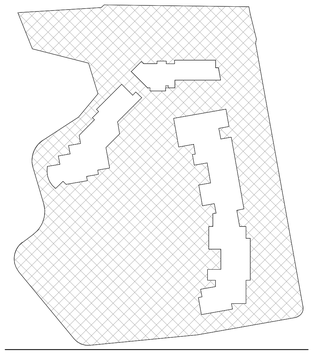


4 SITE SECTION THROUGH COMMONS LOOKING EAST
1" = 20'-0"

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DEL MAR HEIGHTS SCHOOL REBUILD

KEYNOTES



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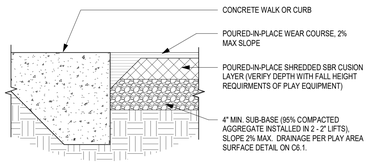
SITE
SITE SECTIONS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

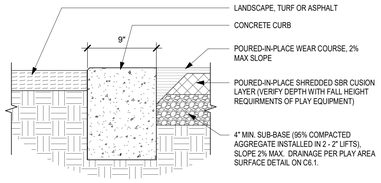
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A1.2.1

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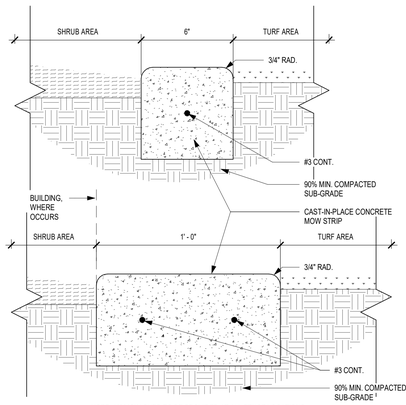
9 SITE - PLAYGROUND SURFACE TRANSITION AT CONCRETE

1 1/2" = 1'-0"



10 SITE - PLAYGROUND SURFACE TRANSITION AT CONC. CURB

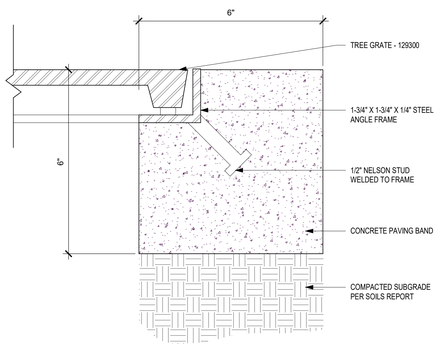
1 1/2" = 1'-0"



NOTE: 12" MOW CURB TO BE PROVIDED AT ALL FENCE LOCATIONS.

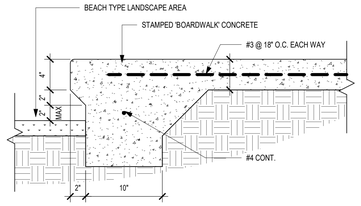
13 SITE - MOWSTRIP

3" = 1'-0"



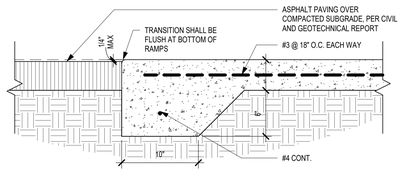
14 SITE - TREE GRATE

6" = 1'-0"



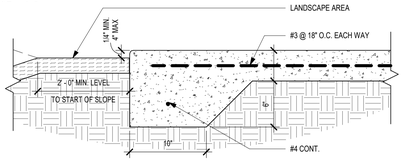
3A SITE - SURFACE TRANSITION A - BOARDWALK CONC. EDGE @ BEACH LANDSCAPE

1 1/2" = 1'-0"



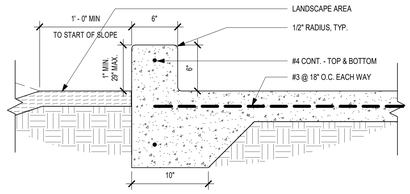
3B SITE - SURFACE TRANSITION B - CONC. EDGE @ ASPHALT PAVING

1 1/2" = 1'-0"



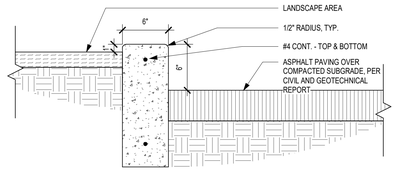
3C SITE - SURFACE TRANSITION C - CONC. EDGE @ LANDSCAPE

1 1/2" = 1'-0"



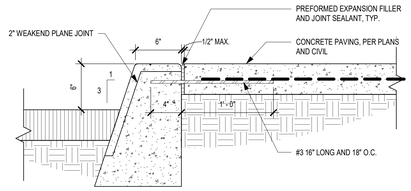
3D SITE - SURFACE TRANSITION D - CONC. CURB @ LANDSCAPE

1 1/2" = 1'-0"



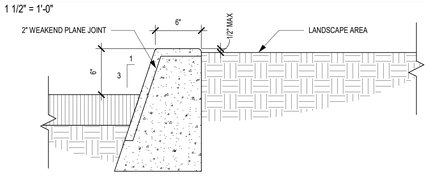
3E SITE - SURFACE TRANSITION E - CONC. CURB @ LANDSCAPE ISLAND

1 1/2" = 1'-0"



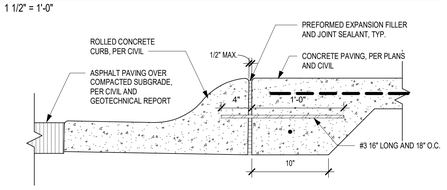
3F SITE - SURFACE TRANSITION F - CONC. CURB @ ASPHALT PAVING

1 1/2" = 1'-0"



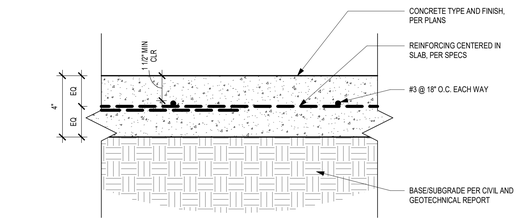
3G SITE - SURFACE TRANSITION G - CONC. CURB @ LANDSCAPE AND ASPHALT PAVING

1 1/2" = 1'-0"



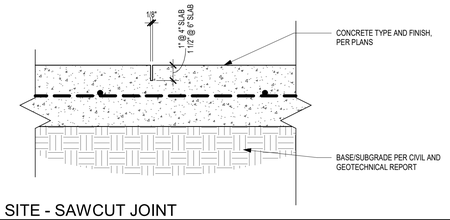
3H SITE - SURFACE TRANSITION H - ROLLED CURB @ ASPHALT PAVING

1 1/2" = 1'-0"



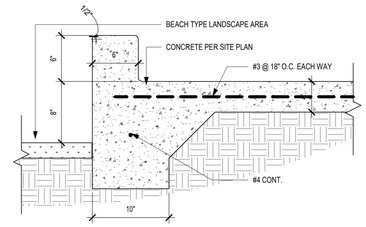
1 SITE - CONCRETE PAVING

3" = 1'-0"



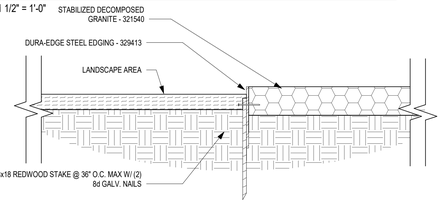
2 SITE - SAWCUT JOINT

3" = 1'-0"



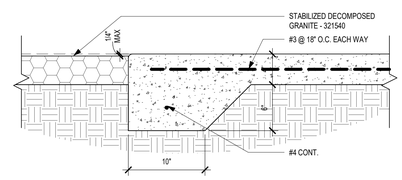
3J SITE - SURFACE TRANSITION J - CONC. CURB @ BEACH LANDSCAPE

1 1/2" = 1'-0"



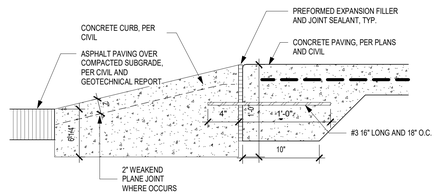
3K SITE - SURFACE TRANSITION K - LANDSCAPE @ DECOMPOSED GRANITE

1 1/2" = 1'-0"



3L SITE - SURFACE TRANSITION L - CONC. EDGE @ DECOMPOSED GRANITE

1 1/2" = 1'-0"



3M SITE - SURFACE TRANSITION M - SLANT CURB

1 1/2" = 1'-0"

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SITE

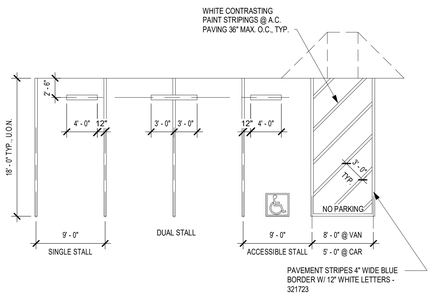
SITE DETAILS - PAVING TRANSITIONS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

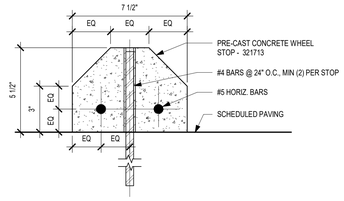
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A1.3.1

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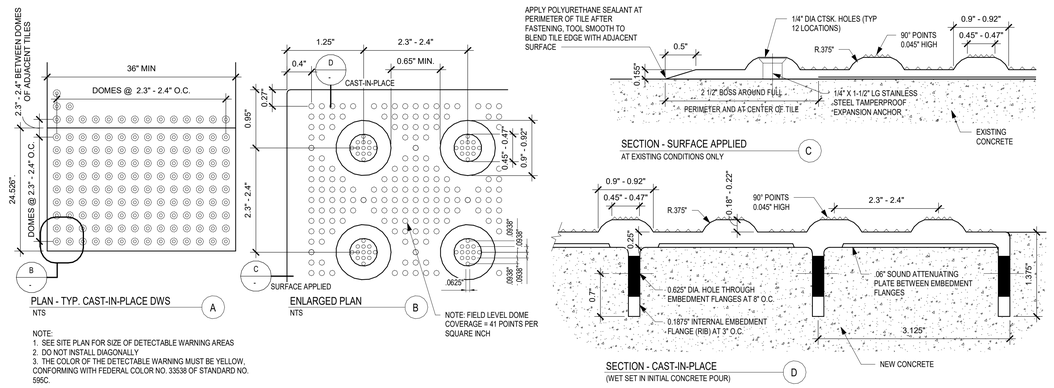
13 SITE - STRIPING DETAIL

1/8" = 1'-0"



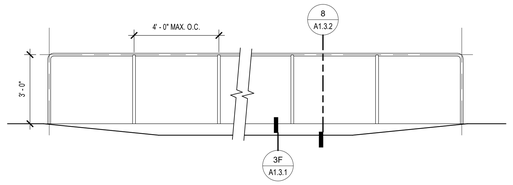
9 SITE - CONCRETE WHEEL STOP

3" = 1'-0"



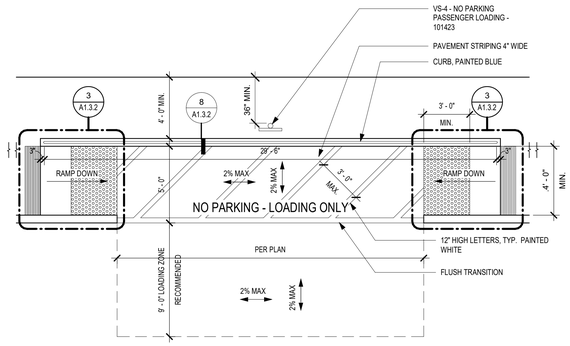
1 SITE - ACCESSIBLE TRUNCATED DOMES

A1.3.2 12" = 1'-0"



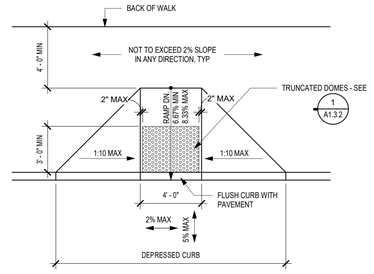
6 SITE - RAILING - PASSENGER DROP-OFF

3/8" = 1'-0"



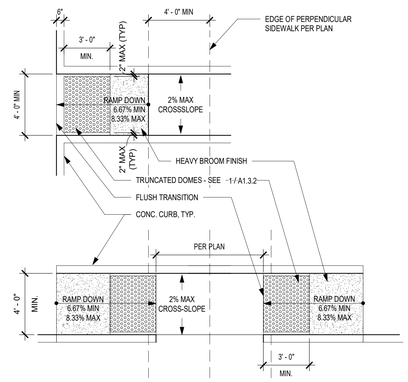
7 SITE_ACCESSIBLE PASSENGER DROP-OFF & RAMP

1/4" = 1'-0"



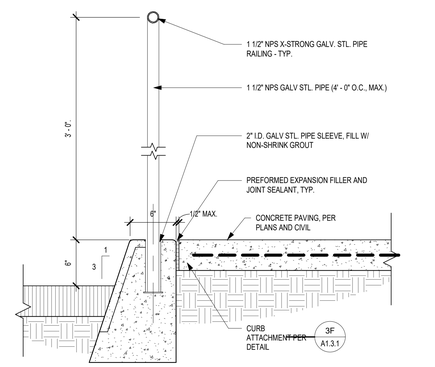
2 SITE - ACCESSIBLE CURB RAMP A

1/4" = 1'-0"



3 SITE - ACCESSIBLE CURB RAMP B

A1.3.2 1/4" = 1'-0"



8 SITE - RAILING - ACCESSIBLE PASSENGER DROP-OFF

A1.3.2 1 1/2" = 1'-0"

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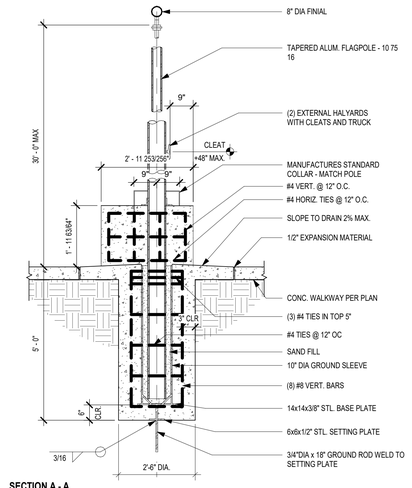
SITE
SITE DETAILS - PARKING

NO. DATE ISSUE

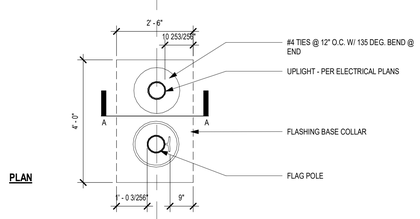
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DATE: 02/28/2020

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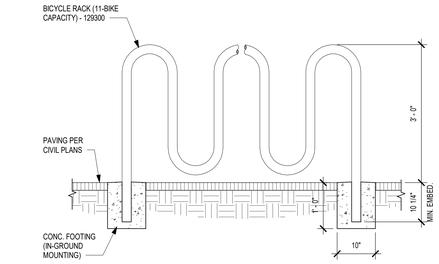


SECTION A - A

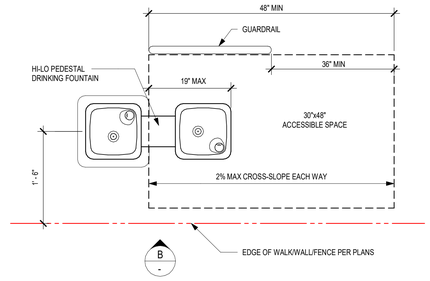


PLAN

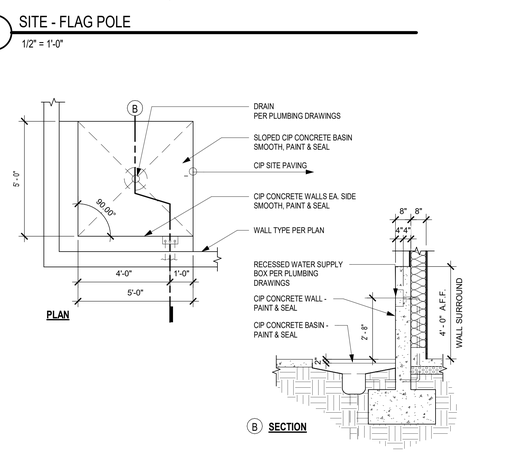
4 SITE - FLAG POLE
1/2" = 1'-0"



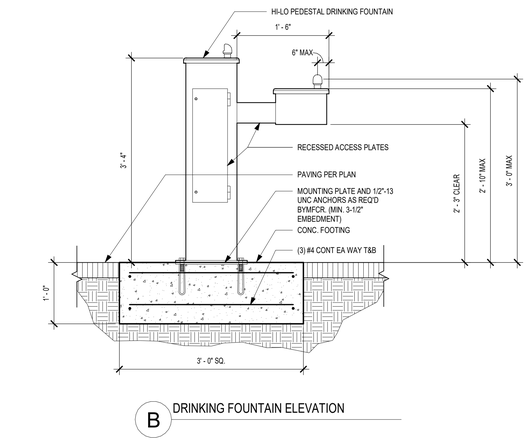
1 SITE - BICYCLE RACK
3/4" = 1'-0"



A DRINKING FOUNTAIN PLAN

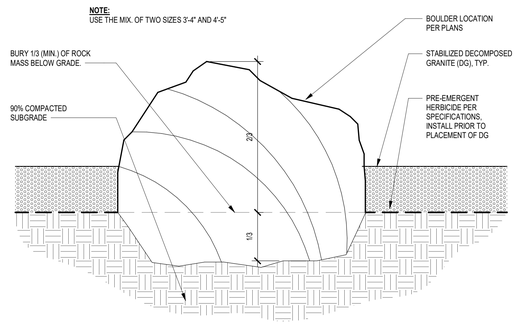


5 SITE - CAN WASH
3/8" = 1'-0"

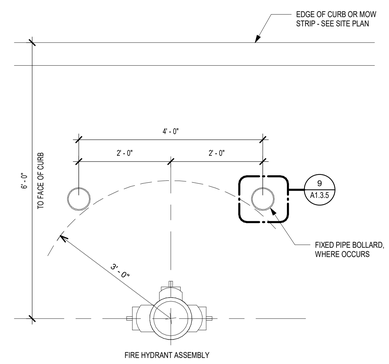


B DRINKING FOUNTAIN ELEVATION

2 PEDESTAL DRINKING FOUNTAIN
1" = 1'-0"



6 SITE - BOULDER INSTALL
3/8" = 1'-0"



3 SITE - HYDRANT CLEARANCE
3/4" = 1'-0"

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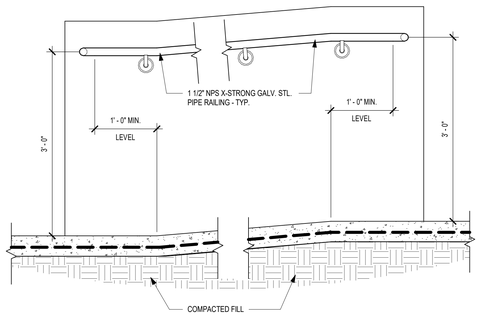
SITE
SITE DETAILS - MISC

NO. DATE ISSUE

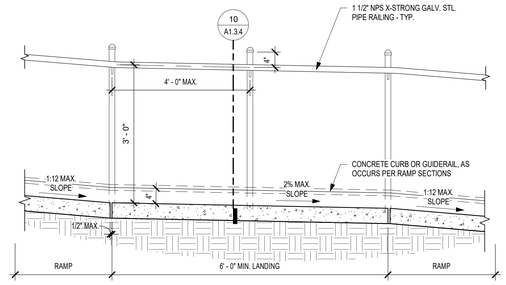
PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
A1.3.3

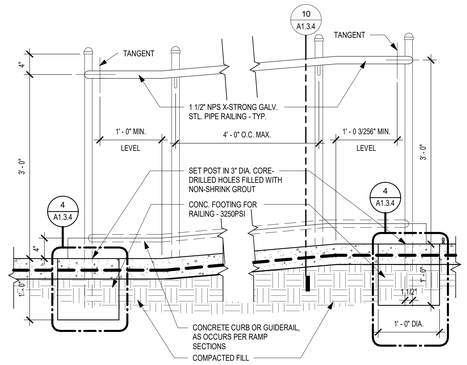
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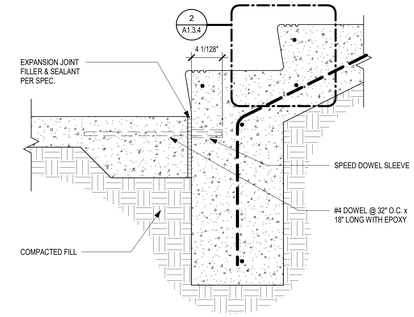
13 SITE - RAMP AND WALL MOUNTED HANDRAIL
1" = 1'-0"



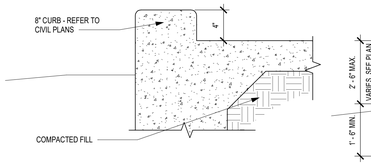
9 SITE - RAMP LANDING
3/4" = 1'-0"

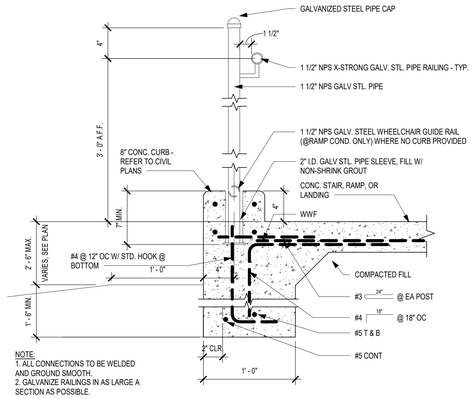


5 SITE - RAMP AND RAILING
1" = 1'-0"

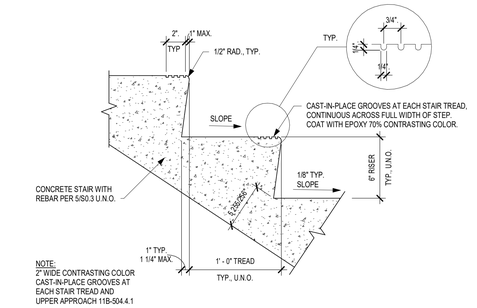


1 SITE - STAIRS - BASE AT CONC
1 1/2" = 1'-0"

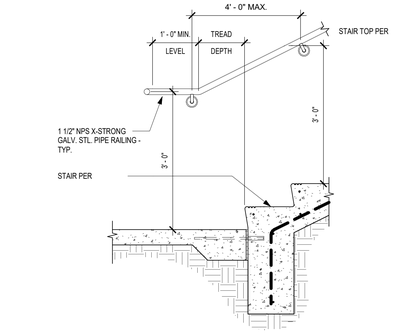




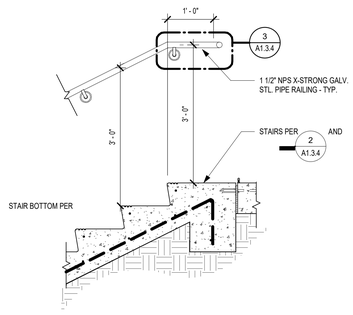
10 SITE - CURB AT RAMP
1 1/2" = 1'-0"



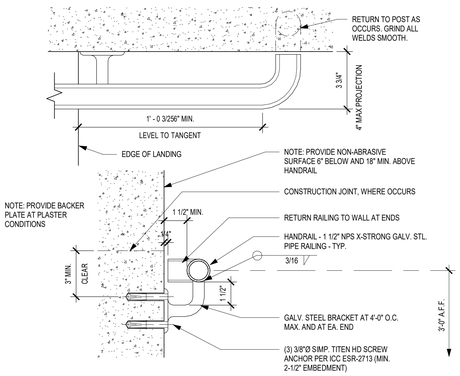
2 SITE - STAIRS - CONCRETE STEPS
1 1/2" = 1'-0"



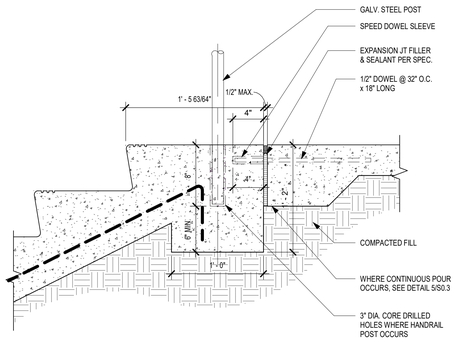
11 SITE_STAIRS_WALL MOUNTED HANDRAIL - BOTTOM
3/4" = 1'-0"



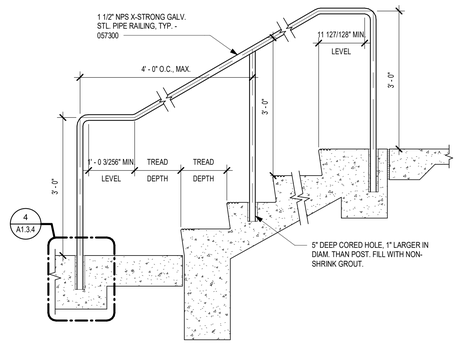
7 SITE - STAIRS - WALL MOUNTED HANDRAIL - TOP
3/4" = 1'-0"



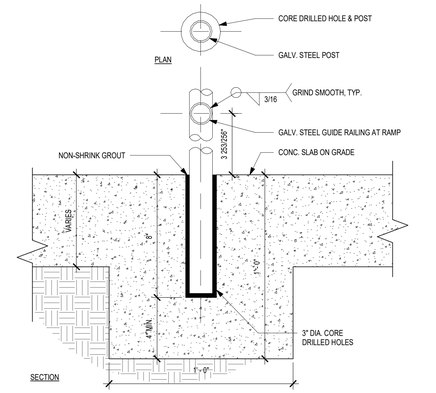
3 SITE - STAIRS - RAIL MOUNTING
3" = 1'-0"



12 SITE_STAIRS_STAIR TOP
1 1/2" = 1'-0"



8 SITE - STAIRS - HANDRAIL
3/4" = 1'-0"



4 SITE - RAILING - HANDRAIL @ SLAB ON GRADE
3" = 1'-0"

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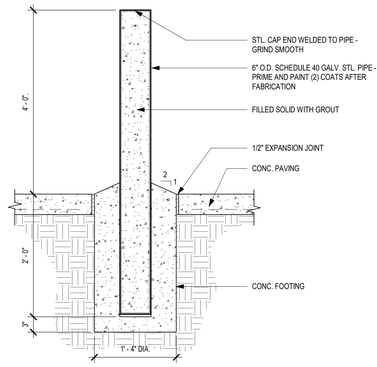
SITE
SITE DETAILS - STAIRS-RAMPS-RAILS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

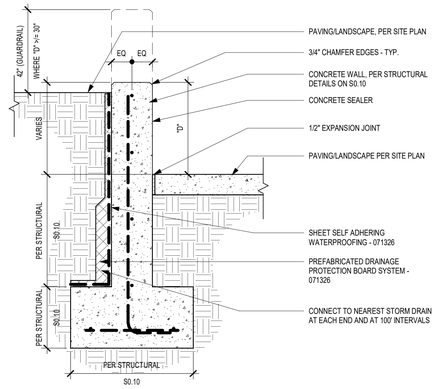
DRAWING
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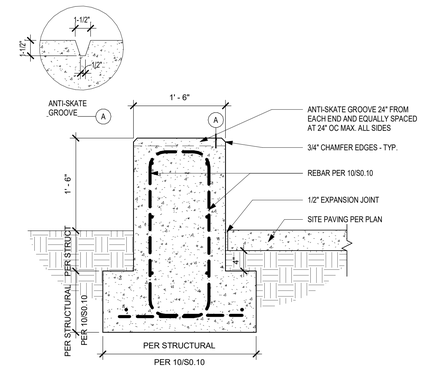
9 SITE - BOLLARD - FIXED PIPE

1" = 1'-0"



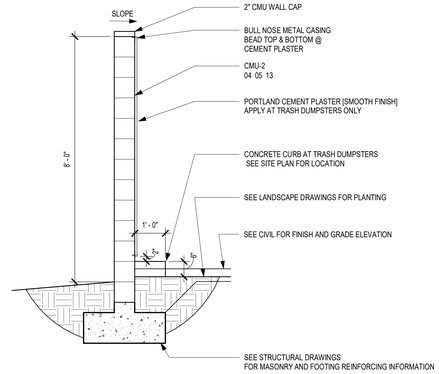
5 SITE - PLANTER WALL - DRAINAGE BD

1" = 1'-0"



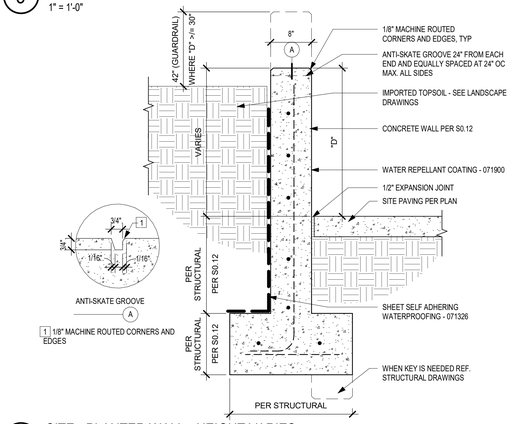
1 SITE - SEAT WALL

1" = 1'-0"



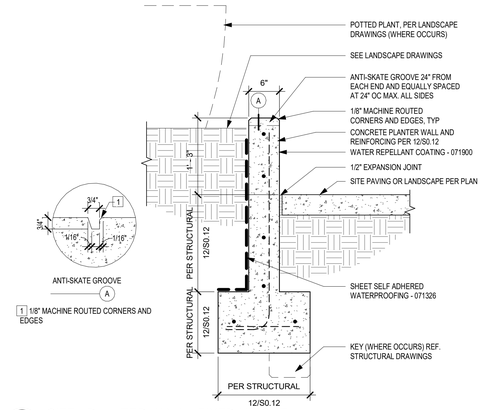
10 C.M.U. SITE FENCE

1/2" = 1'-0"



6 SITE - PLANTER WALL - HEIGHT VARIES

1" = 1'-0"



7 SITE - PLANTER WALL - FIXED HEIGHT

1" = 1'-0"

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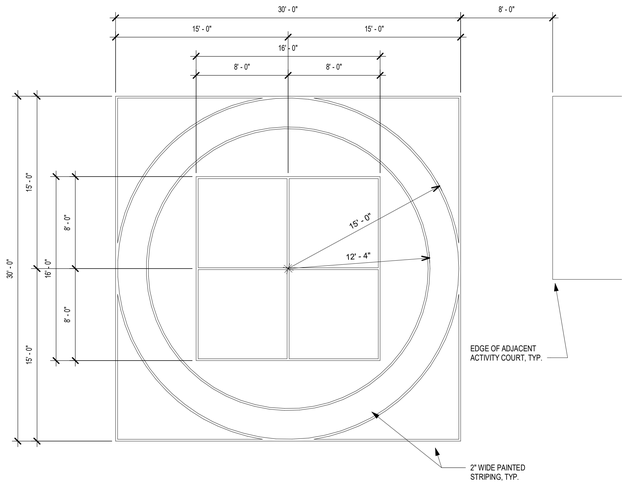
SITE
SITE DETAILS - WALLS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

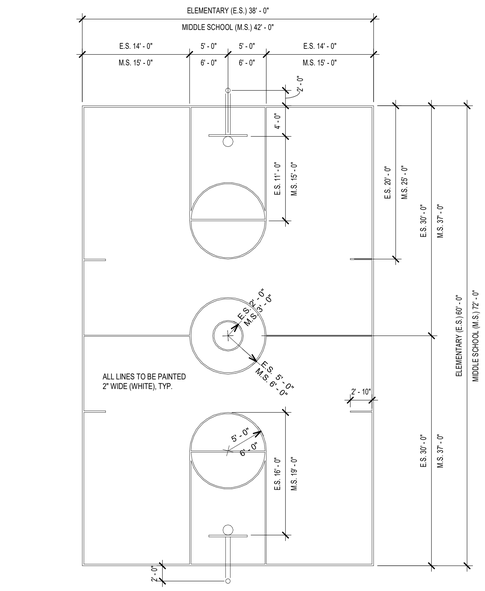
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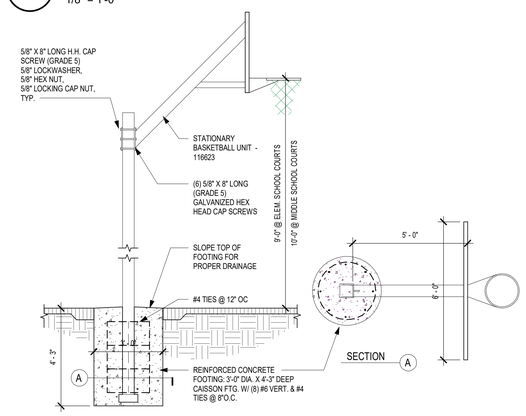
5 SITE - COURTS - SUPER FOUR SQUARE STRIPING

3/16" = 1'-0"



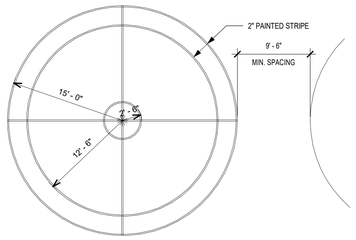
9 SITE - COURTS - BASKETBALL LAYOUT

1/8" = 1'-0"



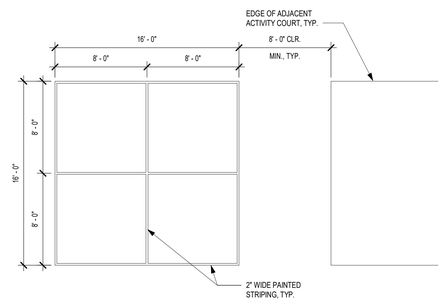
10 SITE - COURTS - BASKETBALL GOAL2

3/8" = 1'-0"



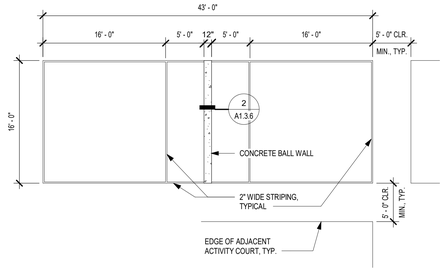
11 SITE - COURTS - CIRCLE PLAY

1/8" = 1'-0"



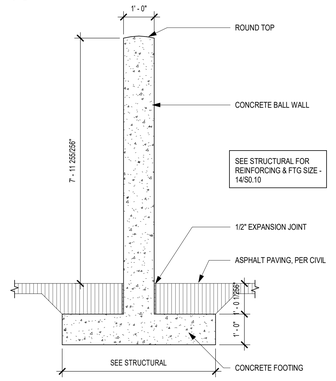
12 SITE - COURTS - FOUR SQUARE STRIPING

3/16" = 1'-0"



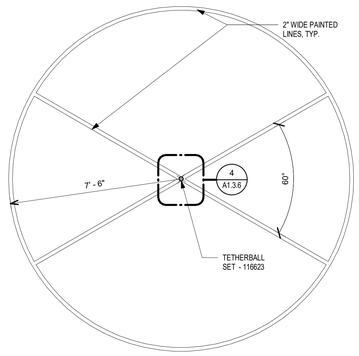
1 SITE - COURTS - BALL WALL LAYOUT

1/8" = 1'-0"



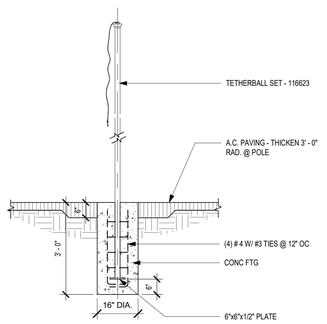
2 A1.3.6 SITE - COURTS - SECTION AT BALL WALL

1/2" = 1'-0"



3 SITE - COURTS - TETHERBALL STRIPING PLAN

3/8" = 1'-0"



4 A1.3.6 SITE - COURTS - TETHERBALL POLE DETAIL

1/2" = 1'-0"

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SITE

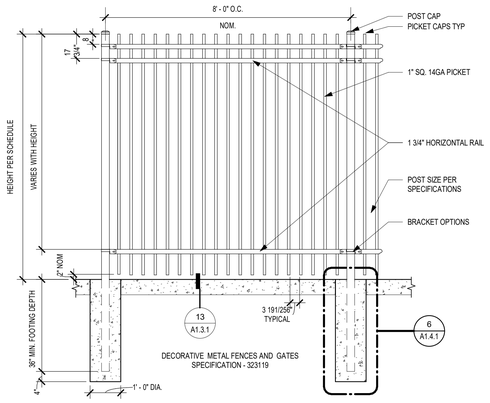
SITE DETAILS - PLAY COURTS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

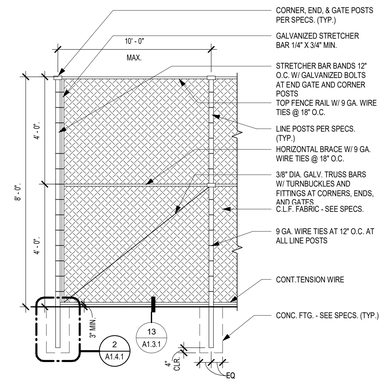
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A1.3.6

2/24/2020 7:48:42 AM
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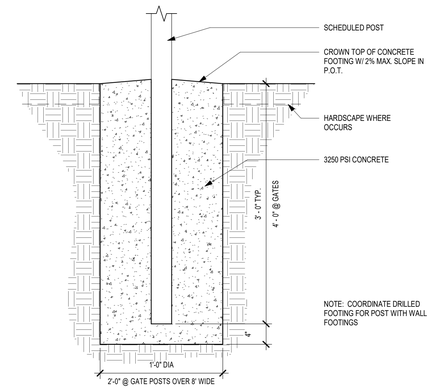
5 SITE - FENCE - METAL FENCING

1/2" = 1'-0"



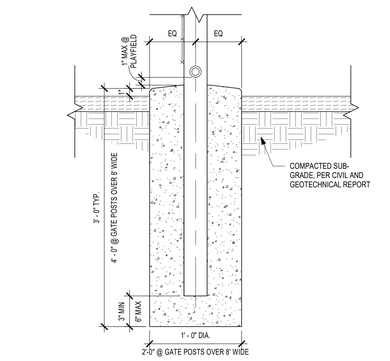
1 SITE - FENCE - CHAIN LINK FENCE

1/4" = 1'-0"



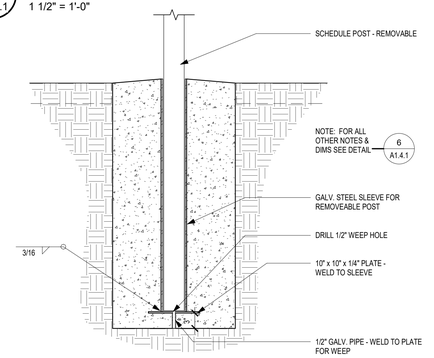
6 A1.4.1 SITE - FENCE - METAL FENCE/GATE POST FOOTING

1" = 1'-0"



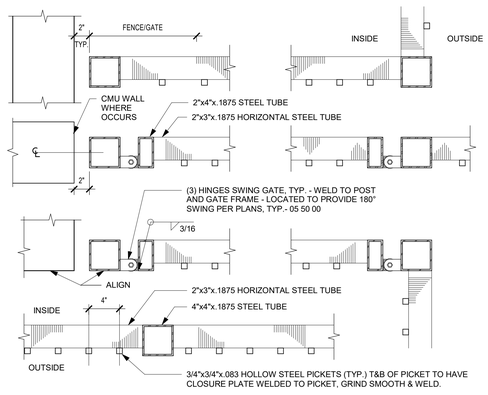
2 A1.4.1 SITE - FENCE - CHAIN LINK FENCE/GATE POST FOOTING

1 1/2" = 1'-0"



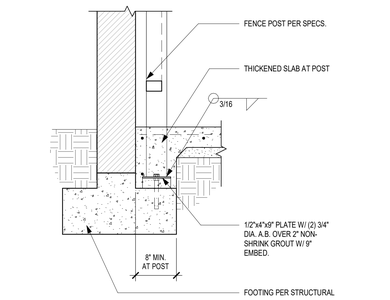
3 SITE - FENCE - REMOVABLE POST FOOTING

1" = 1'-0"



8 A1.4.3 SITE - FENCE - STEEL FENCE DETAILS

1 1/2" = 1'-0"



4 A1.4.3 SITE - FENCE - POST FOOTING AT BLDG FACE

1" = 1'-0"

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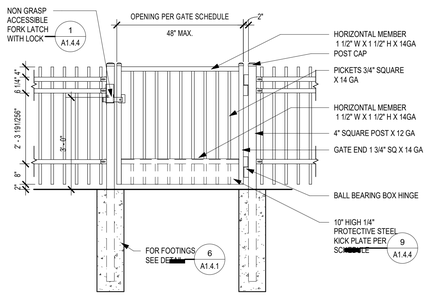
SITE
SITE FENCE DETAILS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

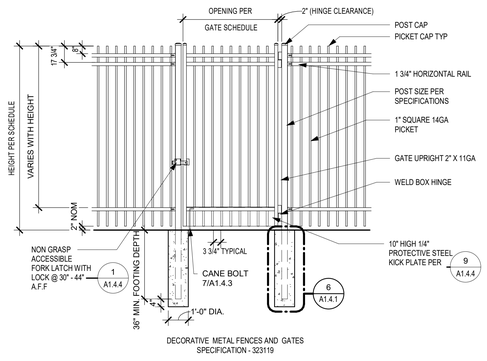
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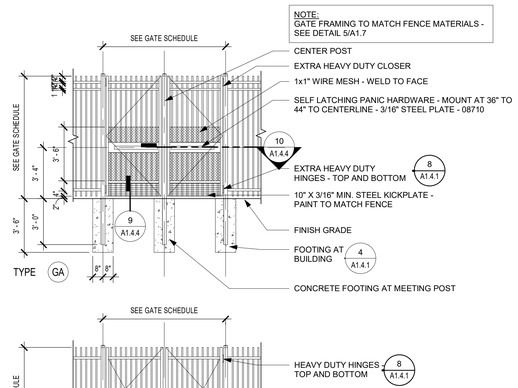
13 SITE - GATE - TYPE 'GE' - METAL FENCING SGL GATE

1/2" = 1'-0"



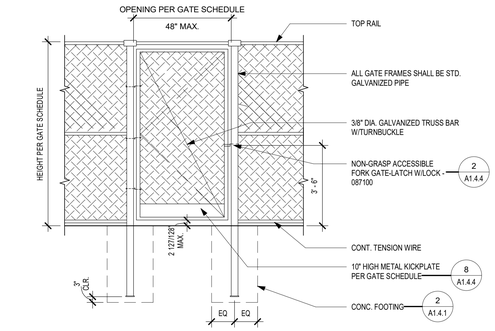
9 SITE - GATE - TYPE 'GF' - MTL FENCING SINGLE - NO PANIC

3/8" = 1'-0"



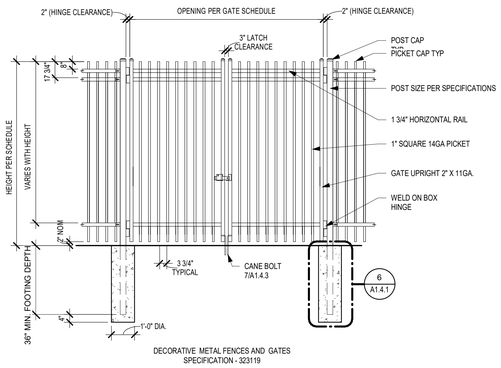
6 SITE - GATE - STEEL GATES - TYPES GA & GB1

1/4" = 1'-0"



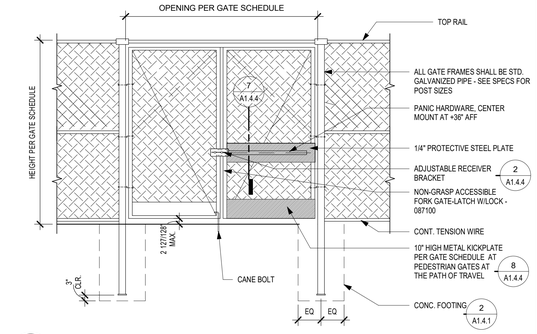
1 SITE - GATE - TYPE 'GK' - CHAIN LINK - SINGLE GATE

3/8" = 1'-0"



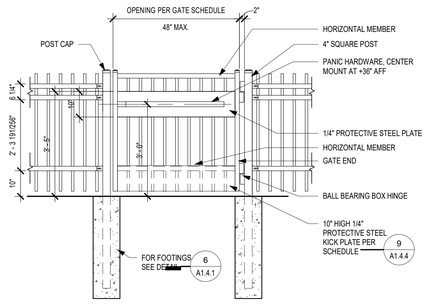
10 SITE - GATE - TYPE 'GK' - METAL FENCING DBL - NO PANIC

3/8" = 1'-0"



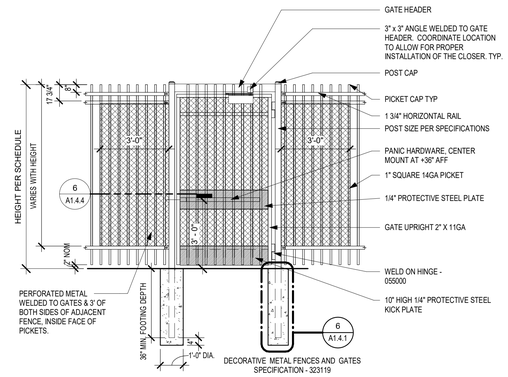
2 SITE - GATE - TYPE 'GP' - CHAIN LINK- DOUBLE GATE - PANIC

3/8" = 1'-0"



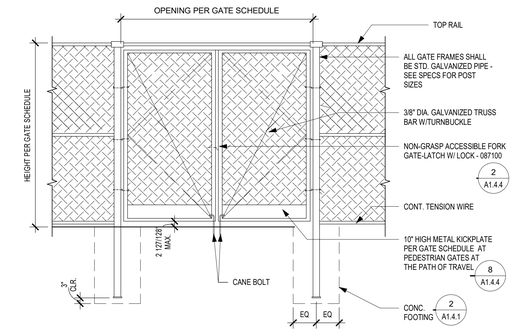
15 SITE - GATE - TYPE 'GD' - METAL FENCING SGL GATE

1/2" = 1'-0"



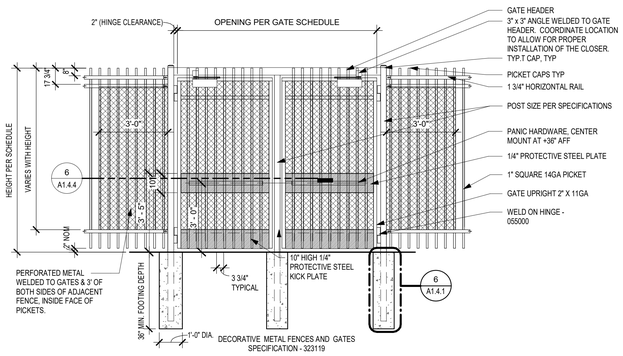
11 SITE - GATE - TYPE 'GH' - METAL FENCING SINGLE

3/8" = 1'-0"



3 SITE - GATE - TYPE 'GE' - CHAIN LINK - DOUBLE GATE

3/8" = 1'-0"



12 SITE - GATE - TYPE 'GG' - METAL FENCING DOUBLE

3/8" = 1'-0"

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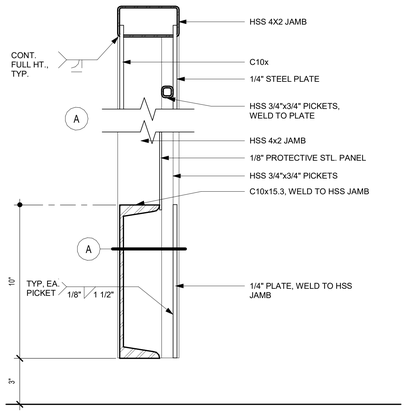
SITE
SITE GATE DETAILS

NO. DATE ISSUE

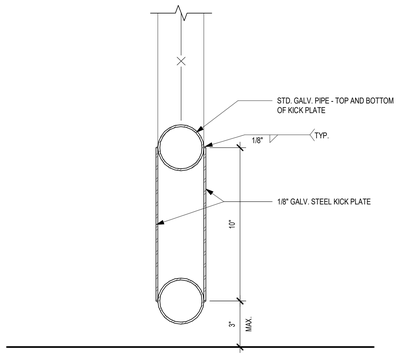
PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
A1.4.3

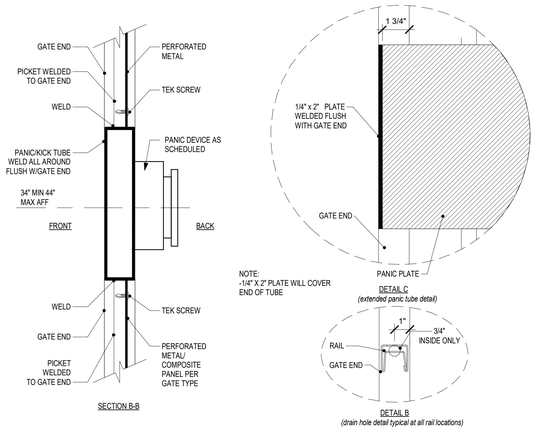
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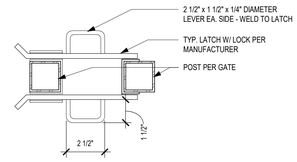
11 SITE - GATE - KICK PLATE DETAIL2
3" = 1'-0"



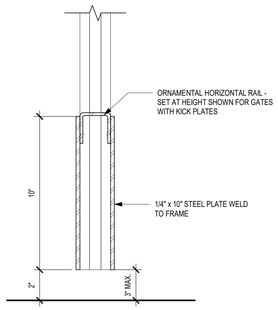
8 SITE - GATE - CHAIN LINK FENCING KICK PLATE
3" = 1'-0"



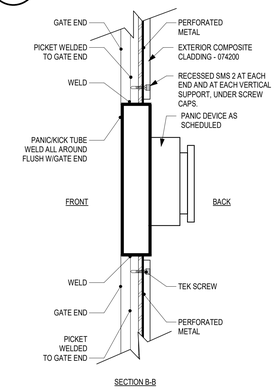
4 A1.4.4 SITE - GATE - METAL FENCE PANIC HARDWARE MOUNTING
3" = 1'-0"



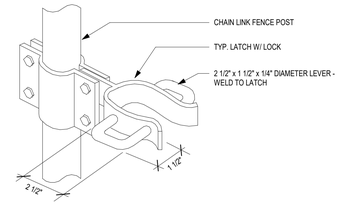
1 A1.4.3 SITE - GATE - METAL FENCE ACCESSIBLE LATCH
3" = 1'-0"



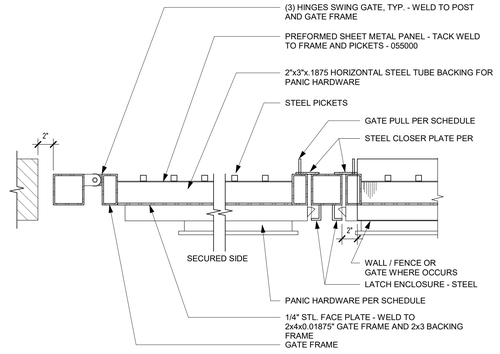
9 A1.4.3 SITE - GATE - METAL FENCING KICK PLATE
3" = 1'-0"



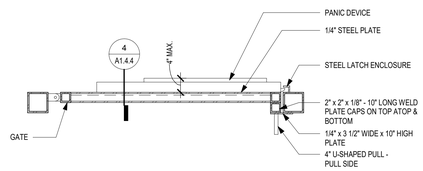
5 SITE - GATE - PANIC HDWR MOUNTING W/ COMPOSITE CLAD
3" = 1'-0"



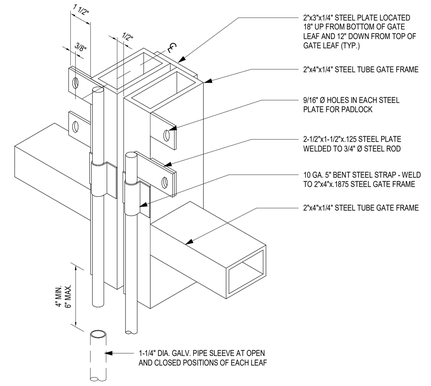
2 A1.4.3 SITE - GATE - NON-GRASP ACCESSIBLE FORK GATE LATCH
6" = 1'-0"



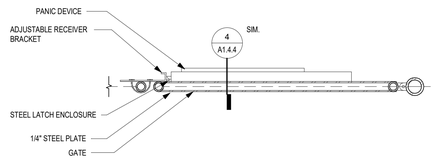
10 A1.4.3 SITE - GATE - METAL GATE SECTION
1 1/2" = 1'-0"



6 A1.4.3 SITE - GATE - METAL FENCE PANIC HARDWARE
1" = 1'-0"



3 SITE - GATE - METAL FENCE CANE BOLT
3" = 1'-0"



7 A1.4.3 SITE - GATE - CHAIN LINK PANIC HARDWARE
1" = 1'-0"

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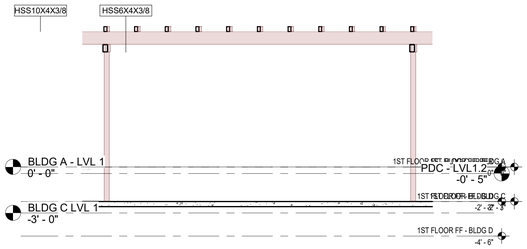
SITE
SITE GATE DETAILS

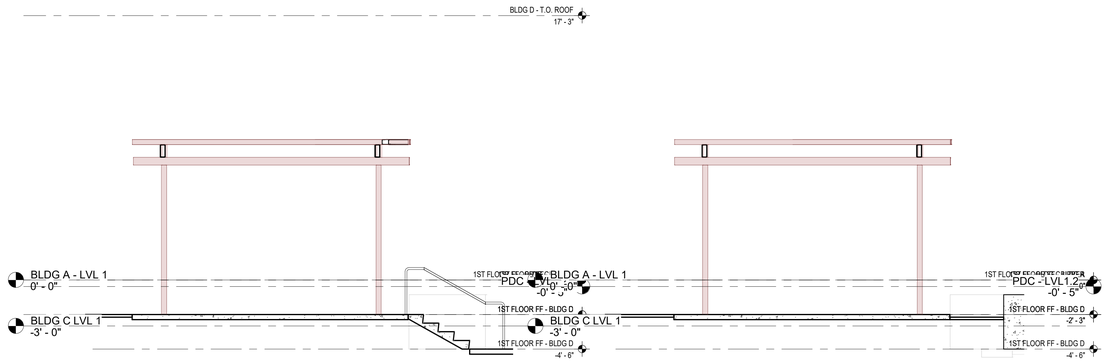
NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

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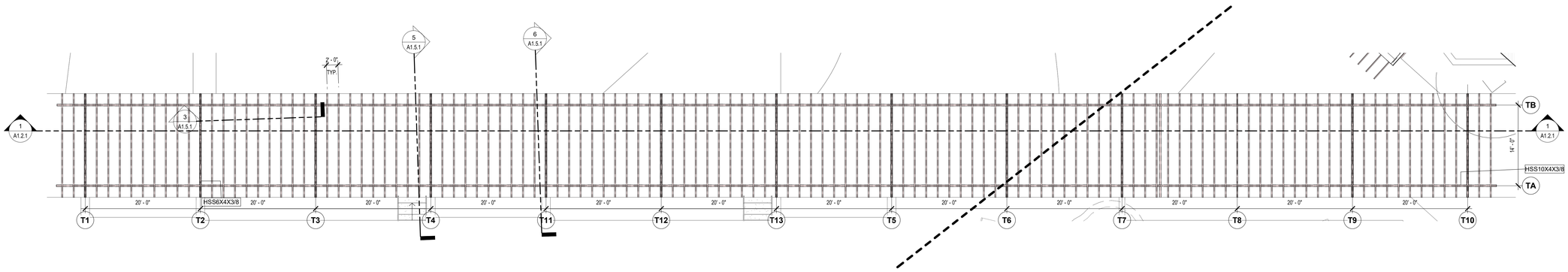




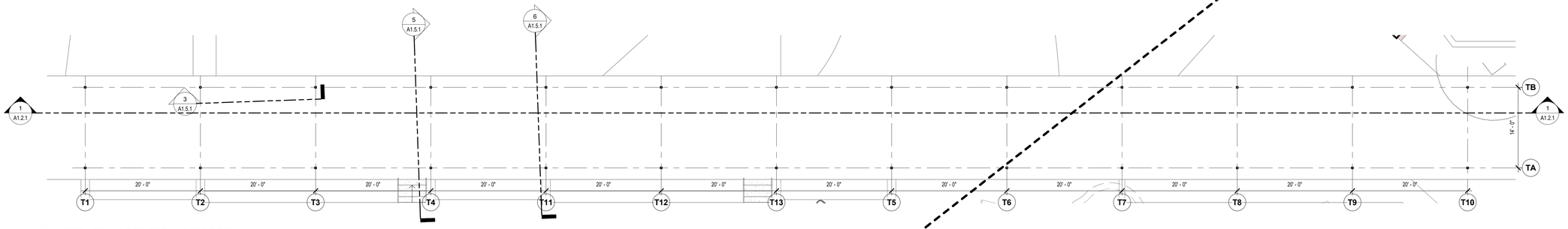
3 SITE - TRELLIS SECTION A
1/4" = 1'-0"

5 SITE - TRELLIS SECTION 2
1/4" = 1'-0"

6 SITE - TRELLIS SECTION 3
1/4" = 1'-0"



1 SITE - ENLARGED TRELLIS ROOF PLAN
1/8" = 1'-0"



2 SITE - ENLARGED TRELLIS FLOOR PLAN
1/8" = 1'-0"

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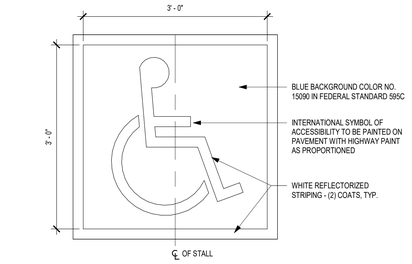
SITE
SITE TRELLIS DETAILS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

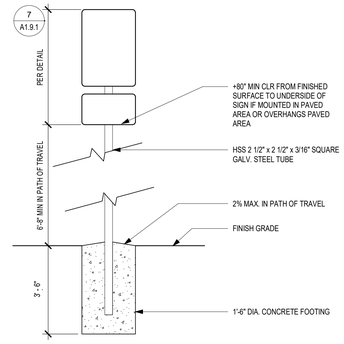
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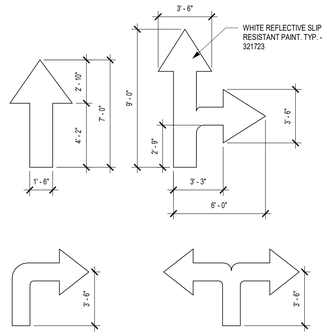
3 SITE - ACCESSIBLE PARKING SYMBOL

1" = 1'-0"



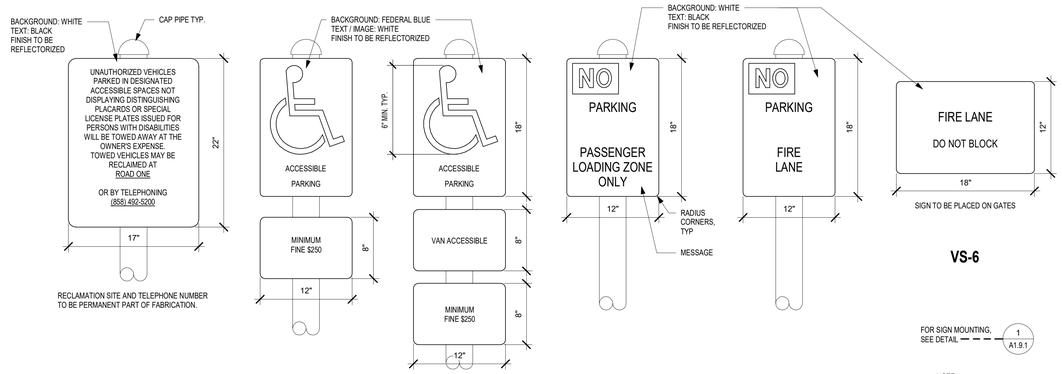
1 A1.9.1 SITE - SIGNS - POST MOUNTED SITE SIGNAGE

1 1/2" = 1'-0"



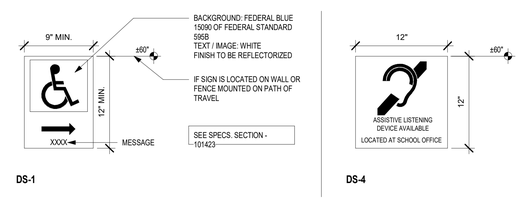
2 SITE - SIGNS - PAVEMENT SIGN

1/4" = 1'-0"



7 A1.9.1 SITE - SIGNS - VEHICLE CONTROL SIGNAGE

1 1/2" = 1'-0"



NOTE: ALL SIGNS SHALL HAVE A NON-GLARE FINISH AND SYMBOL AND CHARACTER COLORS SHALL BE CONTRASTING WITH BACKGROUND COLOR.

8 SITE - SIGNS - SITE DIRECTIONAL, IDENTIFICATION AND INFORMATIONAL SIGNAGE

1 1/2" = 1'-0"

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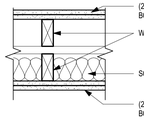
SITE
SITE SIGNAGE DETAILS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

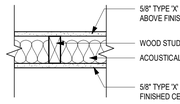
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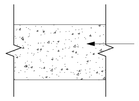
CHASE WALL	WL
UL U342	2-HR
STUD SIZE	**STC**
WL4 = 4"	
WL6 = 6"	

NOTE: CONTINUOUS ACOUSTICAL SEALANT AT TOP AND BOTTOM TRACK.

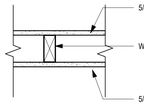


NOT FULL HEIGHT	WA
NONE	NR
STUD SIZE	**STC**
WA4 = 3 1/2"	
WA6 = 5 1/2"	
WA8 = 7 1/4"	

NOTE: TERMINATE WALL 6 INCHES ABOVE FINISHED CEILING

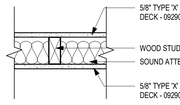


	1A
NONE	NR
WIDTH	
5A6 = 6"	
5A8 = 8"	
5A1 = 12"	



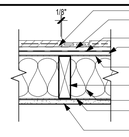
LOW WALL	WM
NONE	NR
STUD SIZE	**STC**
WM4 = 4"	
WM6 = 6"	

NOTE: WALL HEIGHT AS INDICATED

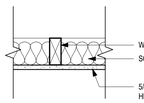


	WB
NONE	NR
STUD SIZE	**STC**
WB4 = 3 1/2"	
WB6 = 5 1/2"	
WB8 = 7 1/4"	

NOTE: CONTINUOUS ACOUSTICAL SEALANT AT TOP AND BOTTOM TRACK.

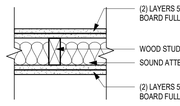


	2A
NONE	NR
STUD SIZE	**STC**
2A4 = 3 1/2"	
2A6 = 5 1/2"	
2A8 = 7 1/4"	
2A1 = 9 1/4"	



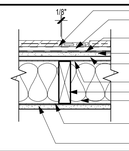
FURRED WALL	WN
NONE	NR
STUD SIZE	**STC**
WN2 = 2 1/2"	
WN4 = 4"	
WN6 = 6"	

NOTE: CONTINUOUS ACOUSTICAL SEALANT AT TOP AND BOTTOM TRACK.

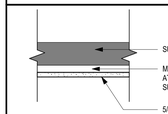


FIRE WALL	WC
UL U301	2-HR
STUD SIZE	**STC**
WC4 = 3 1/2"	
WC6 = 5 1/2"	
WC8 = 7 1/4"	

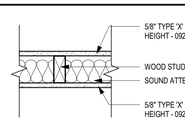
NOTE: CONTINUOUS ACOUSTICAL SEALANT AT TOP AND BOTTOM TRACK.



	2B
NONE	1-HR
STUD SIZE	**STC**
2B4 = 3 1/2"	
2B6 = 5 1/2"	
2B8 = 7 1/4"	
2B1 = 9 1/4"	

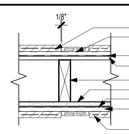


FURRED WALL	WP
NONE	NR
STUD SIZE	**STC**
WP1 = 7/8"	

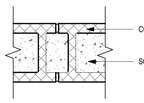


FIRE BARRIER	WD
UL U309	1-HR
STUD SIZE	**STC**
WD4 = 3 1/2"	
WD6 = 5 1/2"	
WD8 = 7 1/4"	

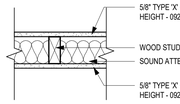
NOTE: CONTINUOUS ACOUSTICAL SEALANT AT TOP AND BOTTOM TRACK.



	2C
NONE	NR
STUD SIZE	**STC**
2C4 = 3 1/2"	
2C6 = 5 1/2"	
2C8 = 7 1/4"	
2C1 = 9 1/4"	

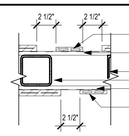


	Q
NONE	NR
CMU WIDTH	
Q4 = 3 5/8"	STC-47
Q6 = 5 5/8"	STC-51
Q8 = 7 5/8"	STC-55
Q12 = 11 5/8"	STC-60

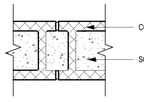


FIRE PARTITION	WE
UL U309	1-HR
STUD SIZE	**STC**
WE4 = 3 1/2"	
WE6 = 5 1/2"	
WE8 = 7 1/4"	

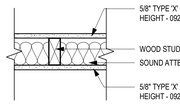
NOTE: CONTINUOUS ACOUSTICAL SEALANT AT TOP AND BOTTOM TRACK.



	3A
NONE	NR
HSS SIZE	**L SIZE**
3A4 = 4X4	3X2
3A6 = 6X6	3X2

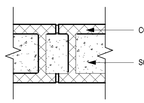


	R
NONE	1-HR
CMU WIDTH	**STC**
R4 = 3 5/8"	STC-47
R6 = 5 5/8"	STC-51
R8 = 7 5/8"	STC-55
R12 = 11 5/8"	STC-60

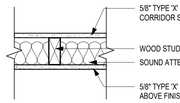


SMOKE BARRIER	WF
NONE	NR
STUD SIZE	**STC**
WF4 = 3 1/2"	
WF6 = 5 1/2"	
WF8 = 7 1/4"	

NOTE: CONTINUOUS ACOUSTICAL SEALANT AT BOTTOM TRACK AND TOP ON CORRIDOR SIDE.

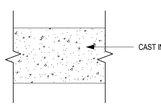


	S
NONE	2-HR
CMU WIDTH	**STC**
S4 = 3 5/8"	STC-47
S6 = 5 5/8"	STC-51
S8 = 7 5/8"	STC-55
S12= 11 5/8"	STC-60

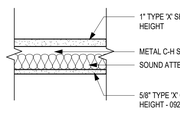


SMOKE PARTITION	WG
NONE	NR
STUD SIZE	**STC**
WG4 = 3 1/2"	
WG6 = 5 1/2"	
WG8 = 7 1/4"	

NOTE: CONTINUOUS ACOUSTICAL SEALANT AT BOTTOM TRACK AND TOP ON CORRIDOR SIDE.

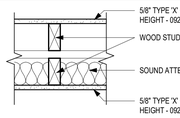


SOLID CONCRETE	T
NONE	NR
WIDTH	**STC**
T6 = 6"	STC-57
T8 = 8"	STC-58
T10 = 10"	
T12 = 12"	



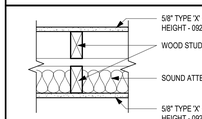
SHAFT WALL	WH
UL U415	1-HR
STUD SIZE	**STC**
WH2 = 2 1/2"	
WH4 = 4"	

NOTE: CONTINUOUS ACOUSTICAL SEALANT AT TOP AND BOTTOM TRACK.



CHASE WALL	WJ
NONE	NR
STUD SIZE	**STC**
WJ4 = 3 1/2"	
WJ6 = 5 1/2"	

NOTE: CONTINUOUS ACOUSTICAL SEALANT AT TOP AND BOTTOM TRACK.



CHASE WALL	WK
UL U341	1-HR
STUD SIZE	**STC**
WK4 = 3 1/2"	
WK6 = 5 1/2"	

NOTE: CONTINUOUS ACOUSTICAL SEALANT AT TOP AND BOTTOM TRACK.

1 WALL TYPES - WOOD STUD

1 1/2" = 1'-0"

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

GENERAL NOTES

1. PROVIDE FIRE BLOCKING IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES & AT CEILINGS AT 10'-0" INTERVALS PER WALL TYPE 'N', WITHOUT INSULATION
2. INTERIOR METAL STUDS SHALL BE 20 GA EXCEPT IN WALLS WITH CASEWORK, ELECTRICAL PANELS, WALL HUNG PLUMBING FIXTURES & WHERE OTHERWISE NOTED. AT THESE LOCATIONS METAL STUDS SHALL BE 16 GA.
3. ALL GYPSUM BOARD EXTENDS TO DECK UNO. FOR GYPSUM BOARD TO DECK TERMINATION DETAILS REFER TO A9.6.1.
4. FOR METAL STUD CONNECTIONS & SECTION PROPERTIES REFER TO S0.8 AND S0.9.
5. 1/2" GLASS MAT, WATER-RESISTANT TILE BACKER BOARD - 092900 AT PORTIONS OF WALLS WITH CERAMIC TILE.

BakerNowicki design studio
731 Ninth Avenue, Suite A, San Diego, California 92101
619.795.2450
www.bndesignstudio.com

ALL
WALL TYPES

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
A2.0.1

BIM 360://19009-00 Del Mar Heights ES/ARCH-BNDS-DMHS.rvt
2/24/2020 7:49:06 AM

FINISHES

NO.	ROOM NAME	FLOOR FIN.	BASE	WALLS NORTH FIN.	WALLS EAST FIN.	WALLS SOUTH FIN.	WALLS WEST FIN.	WAINSCOT FIN.	WAINSCOT HEIGHT	CEILING FIN.	BLINDS INT WIN	BLINDS WIN EXT	REMARKS
A110	RECORDS STORAGE												
C212	ELECTRICAL	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C251	IDF	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
M108	S.O. RR												
M148	IDF/AV												
BUILDING A													
A101	ADMIN LOBBY	PC-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	CWC-1	No	Yes	
A102	CONFERENCE ROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	CWC-1/GB	Yes	Yes	
A103	TEACHER WORKROOM	PC-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	ACP-1	No	Yes	
A104	HEALTH	PC-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	ACP-1	Yes	Yes	
A105	TOILET	CT-2	CTB-1	PF-3	PF-3	PF-3	PF-3	CT-1	6	PF-4	No	No	
A106	STORAGE	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
A107	LACTATION ROOM	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
A108	CORRIDOR	PC-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	ACP-1	No	Yes	
A109	PRINCIPAL	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	ACP-1	No	Yes	
A120	TEACHER LOUNGE	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	ACP-1	No	No	
A121	MECHANICAL	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
A122	RESTROOM	CT-2	CTB-1	PF-3	PF-3	PF-3	PF-3	CT-1	6	PF-4	No	No	
A123	CUSTODIAN	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	FRP	4'	EXP	No	No	
A124	ELECTRICAL	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
A125	RESTROOM	CT-2	CTB-1	PF-3	PF-3	PF-3	PF-3	CT-1	6	PF-4	No	No	
A126	MDF	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
A127	SMALL CONFERENCE	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	ACP-1	No	No	
A128	PSYCH	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	ACP-1	No	No	
A140	KINDERGARTEN	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	CWC-1	No	Yes	
A141	TOILET	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
A142	KINDERGARTEN	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	CWC-1	No	Yes	
A143	TOILET	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
A144	SHARED LEARNING SPACE	PC-1	RB-1	PF-3	RCP-1/GWC-1	PF-3	PF-3	-	-	CWC-1	No	Yes	
A145	KINDERGARTEN	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	CWC-1	No	Yes	
A146	TOILET	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
A147	TOILET	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
A148	FIRE RISER	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
A149	STORAGE	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C													
C101	AFTER SCHOOL CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C102	AFTER SCHOOL CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C103	AFTER SCHOOL CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C104	OT	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C105	TESTING	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	FRP	4'	EXP	No	No	
C106	APE	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C107	SPEECH	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C110	FIRE RISER	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C111	MECHANICAL	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C112	CUSTODIAL	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	FRP	4'	EXP	No	No	
C113	S.O. RR	CT-2	CTB-1	PF-3	PF-3	PF-3	PF-3	CT-1	6	PF-4	No	No	
C114	S.O. RR	CT-2	CTB-1	PF-3	PF-3	PF-3	PF-3	CT-1	6	PF-4	No	No	
C115	ELECTRICAL	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C116	RESTROOM	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
C117	RESTROOM	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
C118	IDF	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C119	STORAGE	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C120	PE	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C121	RESTROOM	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
C122	RESTROOM	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
C130	PRIMARY SDC	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C131	S.O. RR	CT-2	CTB-1	PF-3	PF-3	PF-3	PF-3	CT-1	6	PF-4	No	No	
C132	RSP	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C133	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C134	SMALL GROUP	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C135	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C136	SMALL GROUP	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C140	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C141	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C142	COLLABORATION	PC-1	RB-1	PF-3	RCP-1/GWC-1	PF-3	PF-3	-	-	EXP	No	Yes	
C143	SMALL GROUP	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C150	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C151	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C152	CIRCULATION	PC-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	ACP-1	No	Yes	
C153	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C154	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C155	SMALL GROUP	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C160	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C161	COLLABORATION	PC-1	RB-1	PF-3	RCP-1/GWC-1	PF-3	PF-3	-	-	EXP	No	Yes	
C201	CIRCULATION	PC-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	ACP-1	No	Yes	
C202	STORAGE	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C203	IDF	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C204	S.O. RR	CT-2	CTB-1	PF-3	PF-3	PF-3	PF-3	CT-1	6	PF-4	No	No	
C205	S.O. RR	CT-2	CTB-1	PF-3	PF-3	PF-3	PF-3	CT-1	6	PF-4	No	No	
C206	CUSTODIAL	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	FRP	4'	EXP	No	No	
C207	CIRCULATION	PC-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	ACP-1	No	Yes	
C208	RESTROOM	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
C209	RESTROOM	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
C210	RESTROOM	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
C211	RESTROOM	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
C220	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C221	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C222	SMALL GROUP	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C223	CIRCULATION	PC-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	ACP-1	No	Yes	
C224	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C225	SMALL GROUP	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C230	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C231	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C232	COLLABORATION	PC-1	RB-1	PF-3	RCP-1/GWC-1	PF-3	PF-3	-	-	EXP	No	Yes	
C233	SMALL GROUP	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C234	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C235	SMALL GROUP	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C240	UPPER SDC	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C241	FIRE RISER	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C242	S.O. RR	CT-2	CTB-1	PF-3	PF-3	PF-3	PF-3	CT-1	6	PF-4	No	No	
C243	CUSTODIAL	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	FRP	4'	EXP	No	No	
C244	MECHANICAL	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C245	ELECTRICAL	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C246	CIRCULATION	PC-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	ACP-1	No	Yes	
C247	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C248	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C249	COLLABORATION	PC-1	RB-1	PF-3	RCP-1/GWC-1	PF-3	PF-3	-	-	EXP	No	Yes	
C250	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	

FINISHES

NO.	ROOM NAME	FLOOR FIN.	BASE	WALLS NORTH FIN.	WALLS EAST FIN.	WALLS SOUTH FIN.	WALLS WEST FIN.	WAINSCOT FIN.	WAINSCOT HEIGHT	CEILING FIN.	BLINDS INT WIN	BLINDS WIN EXT	REMARKS
M													
M101	INNOVATION CENTER	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	CWC-1	No	Yes	
M102	QUIET ROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	CWC-1	No	Yes	
M103	RESTROOM	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
M104	STORAGE	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
M105	RESTROOM	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
M106	ELECT	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
M107	IDF	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
M120	MULTI USE ROOM	PC-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	CWC-1	No	Yes	
M121	QUIET ROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	CWC-1	No	Yes	
M122	STORAGE	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
M123	ART STUDIO	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	CWC-1	No	Yes	
M124	STORAGE	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
M125	STORAGE	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
M126	SCIENCE CLASSROOM	PC-1	RB-1	PF-3	RCP-1/GWC-1	PF-3	PF-3	-	-	CWC-1	No	Yes	
M128	STORAGE	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
M129	MUSIC STUDIO	PC-1	RB-1	PF-3	RCP-1/GWC-1	PF-3	PF-3	-	-	CWC-1	No	Yes	
M130	STORAGE	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
M140	FIRE RISER	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
M141	MULTI USE STORAGE	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
M142	FOOD SERVICE YARD										No	No	
M143	CUSTODIAL	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	FRP	4'	EXP	No	No	
M144	WATER HEATER	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
M145	KITCHEN	CT-4	CTB-1	PF-3	PF-3	PF-3	PF-3	FRP	4'	ACP-1	No	Yes	
M146	SERVERY	PC-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	ACP-1	No	Yes	
M147	LOBBY	PC-1	RB-1	PF-3	PF-3/WA	PF-3	PF-3/WA	-	-	ACP-1/CWC-1	No	Yes	
M160	TOILET	CT-2	CTB-1	PF-3	PF-3	PF-3	PF-3	CT-1	6	PF-4	No	No	
M161	PTA	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	CWC-1	No	Yes	
M162	RESTROOM	CT-2	CTB-1	PF-3	PF-3	PF-3	PF-3	CT-1	6	PF-4	No	No	
M163	RESTROOM	CT-2	CTB-1	PF-3	PF-3	PF-3	PF-3	CT-1	6	PF-4	No	No	
M164	QUIET ROOM												
M165	BICYCLE STORAGE												

PAINT FINISHES

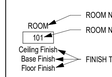
PF-1	PAINT, SEMI-GLOSS, PRIMED STEEL, INTERIOR - 099123
PF-2	PAINT, SEMI-GLOSS, MISC. FERROUS MTL, INT - 099123
PF-3	PAINT, EGGSHELL, GYPSUM BOARD SURFACES - 099123
PF-4	PAINT, SEMI-GLOSS, GYPSUM BOARD SURFACES - 099123
PF-5	PAINT, SEMI-GLOSS, WOOD - 099123
PF-6	PAINT, LOW SHEEN, PREVIOUSLY PAINTED WOOD - 099123
PF-7	DRY FALL, FLAT, CEILINGS - 099123
PFX-1	PAINT, GLOSS, GALV. MTL, EXT - 099113
PFX-2	PAINT, SEMI-GLOSS, MISC. FERROUS MTL, EXT - 099113
PFX-3	PAINT, FLAT, PORTLAND CEMENT PLASTER & CONCRETE - 099113
PFX-4	PAINT, LOW SHEEN, WOOD - 099123

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

FINISH SCHEDULE NOTES

ACP-1	2'X2' ACOUSTICAL CEILING PANEL - 095113
ACP-2	2'X2' ACOUSTICAL CEILING PANEL, WASHABLE - 095113
ACP-3	ACOUSTICAL CEILING CLOUD - 095113
ACP-4	2'X2' ACOUSTICAL CEILING PANEL - 095113
ACP-5	2'X2' ACOUSTICAL CEILING PANEL - 095113
LMC-1	1'X8' METAL PLANK PANEL - 095423
LMC-2	1'X8' CURVED PERFORATED METAL PLANK PANEL - 095423
AWP-1	ACOUSTICAL WALL PANEL, 1" THICK - 098433
AWP-2	ACOUSTICAL WALL PANEL, 2" THICK - 098433
AWP-4	ACOUSTICAL WALL PANEL, 4" THICK - 098433
CPT-1	CARPET - 096816 (FIELD)
CPT-2	CARPET - 096816 (ACCENT)
CPT-3	CARPET - 096816 (ACCENT)
CPT-4	CARPET - 096816 (ACCENT)
CPT-5	CARPET - 096816 (WALK OFF MAT)
CS-1	SEALED CONCRETE (CLEAR) - 033000
CT-1	CERAMIC TILE - 4-1/4"X4-1/4" - INT. WALL - 093000
CT-2	FLOOR TILE - 24"X48" - INT. FLOOR - 093000
CT-3	WALL TILE - 12"X24" - INT. WALL - 093000
CT-4	GLASS MOSAIC TILE - 1"X1" - 93000
CTB-1	CERAMIC TILE - SLIMFOOT BASE - 093000
EXP	EXPOSED STRUCTURE
FF	FACTORY FINISH
FRP	RIGID PROTECTIVE WALL COVERING - 097217
GB	GYP BOARD, 5/8" - 092900
GBX	GYP BOARD FIRE RATED, 5/8" - 092900
GBP	GYP BOARD PAPERLESS, 5/8" - 092900
GBPX	GYP BOARD PAPERLESS, FIRE RATED 5/8" - 092900
GBX	GYP BOARD, FIRE RATED - 092900
GS	GALVANIZED STEEL - 055000
PC-1	POLISHED CONCRETE - 033510 (COLOR 1-NATURAL GREY)
PC-2	POLISHED CONCRETE - 033510 (COLOR 2-CONCRETE DYE)
PC-3	POLISHED CONCRETE - 033510 (COLOR 3-CONCRETE DYE)
PC-4	POLISHED CONCRETE- 033510 (COLOR 4-NATURAL GREY WITH SEEDED AGGREGATE)
PF-1	PAINT, SEMI-GLOSS, PRIMED STEEL, INTERIOR - 099123
PF-2	PAINT, SEMI-GLOSS, MISC. FERROUS MTL, INT - 099123
PF-3	PAINT, EGGSHELL, GYPSUM BOARD SURFACES - 099123
PF-4	PAINT, SEMI-GLOSS, GYPSUM BOARD SURFACES - 099123
PF-5	PAINT, SEMI-GLOSS, WOOD - 099123
PF-6	PAINT, LOW SHEEN, PREVIOUSLY PAINTED WOOD - 099123
PF-7	DRY FALL, FLAT, CEILINGS - 099123
PFX-1	PAINT, GLOSS, GALV. MTL, EXT - 099113
PFX-2	PAINT, SEMI-GLOSS, MISC. FERROUS MTL, EXT - 099113
PFX-3	PAINT, FLAT, PORTLAND CEMENT PLASTER & CONCRETE - 099113
PFX-4	PAINT, LOW SHEEN, WOOD - 099123
PLWD	PLYWOOD 3/4", FIRE RATED - 062023
PLAM	PLASTIC LAMINATE PANEL - 064116
PRFN	PREFINISHED
QT-1	QUARRY TILE - 093000
RB-1	4" RESILIENT BASE - COVED - 096513
RF-1	RESILIENT FLOORING - 096516
RFS-1	RESINOUS FLOORING SYSTEM - 096723
SS	STAINLESS STEEL WALL FACING - 114000
ST-1	TRANSPARENT STAIN, WOOD SURFACES - 099300
VWC-1	VINYL WALL COVERING - 097200
VWC-2	VINYL WALL COVERING - CUSTOM PRINTED- 097200
VWC-3	VINYL WALL COVERING - PROJECTION SURFACE - 097200
VCTWP	VINYL COVERED TACKABLE WALL PANEL - 097200
RCP-1	RESIN COMPOSITE PANEL
GWC-1	GRAPHIC WALL COVERING
CWC-1	COMPOSITE WOOD CLADDING
CWP-1	COMPOSITE WOOD PLANK - FIELD COLOR
CWP-2	COMPOSITE WOOD PLANK - ACCENT COLOR



FINISH REMARKS

1. SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION.
2. SEE FLOOR PLAN FOR PATTERN, LAYOUT AND LOCATION OF FLOOR FINISHES.
3. PAINT ALL EXPOSED STRUCTURAL STEEL, METAL DECK, DUCTWORK & ELECTRICAL COMPONENTS.
4. CERAMIC TILE WAINSCOT (CT-1) AT MOP SINK ONLY, 4' HEIGHT x WIDTH & LENGTH OF SINK.
5. PAINT FLAT BLACK ABOVE CLOUDS
6. SLOPE SLAB TO DRAIN PER PLAN
7. 2" SLAB DEPRESSION, REFER TO FOR CERAMIC TILE ASSEMBLY & UNCOUPLING MEMBRANE 093000
8. 2 1/2" SLAB DEPRESSION
9. 7 1/2" SLAB DEPRESSION
10. STAIRS CARPETED
11. EXTERIOR STAIR FINISH PER ENLARGED SITE PLAN
12. MOTORIZED BLINDS

GENERAL NOTES

A. ALL FINISHES SHALL COMPLY WITH C.B.C. CHAPTER 8, AND WITH TITLE 19 C.C.R. & 2010 C.F.C. CHAPTER 8
B. PAINT ALL EXPOSED STRUCTURAL STEEL, METAL DECK, DUCTWORK & ELECTRICAL COMPONENTS AT INTERIOR
C. WHERE WALL CERAMIC TILE OCCURS- USE 1/2" BACKER BOARD
D. SEE DETAIL FOR TRANSITION BETWEEN FLOOR MATERIALS
E. ALL BLINDS MANUAL U.N.O
F. SEE I.D. SHEETS FOR FLOOR FINISH PLANS
G. ALL FLOORING SHALL HAVE A COEFFICIENT OF FRICTION GREATER THAN 0.6, PER ASTM C1028.

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619.795.2450
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ALL
FINISH SCHEDULE

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
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SCHEDULE-FINISHES - BLDG C

NO.	ROOM NAME	FLOOR FIN.	BASE	WALLS NORTH FIN.	WALLS EAST FIN.	WALLS SOUTH FIN.	WALLS WEST FIN.	WAINSCOT FIN.	WAINSCOT HEIGHT	CEILING FIN.	BLINDS INT WIN	BLINDS WIN EXT	REMARKS
C101	AFTER SCHOOL CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C102	AFTER SCHOOL CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C103	AFTER SCHOOL CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C104	OT	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C105	TESTING	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	FRP	4'	EXP	No	No	
C106	APE	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C107	SPEECH	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C108	CIRCULATION	PC-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	ACP-1	No	Yes	
C110	FIRE RISER	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C111	MECHANICAL	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C112	CUSTODIAL	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	FRP	4'	EXP	No	No	
C113	S.O. RR	CT-2	CTB-1	PF-3	PF-3	PF-3	PF-3	CT-1	6	PF-4	No	No	
C114	S.O. RR	CT-2	CTB-1	PF-3	PF-3	PF-3	PF-3	CT-1	6	PF-4	No	No	
C115	ELECTRICAL	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C116	RESTROOM	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
C117	RESTROOM	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
C118	IDF	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C119	STORAGE	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C120	PE	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C121	RESTROOM	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
C122	RESTROOM	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
C130	PRIMARY SDC	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C131	S.O. RR	CT-2	CTB-1	PF-3	PF-3	PF-3	PF-3	CT-1	6	PF-4	No	No	
C132	RSP	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C133	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C134	SMALL GROUP	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C135	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C136	SMALL GROUP	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C140	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C141	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C142	COLLABORATION	PC-1	RB-1	PF-3	RCP-1/GWC-1	PF-3	PF-3	-	-	EXP	No	Yes	
C143	SMALL GROUP	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C150	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C151	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C152	CIRCULATION	PC-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	ACP-1	No	Yes	
C153	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C154	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C155	SMALL GROUP	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C160	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C161	COLLABORATION	PC-1	RB-1	PF-3	RCP-1/GWC-1	PF-3	PF-3	-	-	EXP	No	Yes	
C201	CIRCULATION	PC-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	ACP-1	No	Yes	
C202	STORAGE	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C203	IDF	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C204	S.O. RR	CT-2	CTB-1	PF-3	PF-3	PF-3	PF-3	CT-1	6	PF-4	No	No	
C205	S.O. RR	CT-2	CTB-1	PF-3	PF-3	PF-3	PF-3	CT-1	6	PF-4	No	No	
C206	CUSTODIAL	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	FRP	4'	EXP	No	No	
C207	CIRCULATION	PC-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	ACP-1	No	Yes	
C208	RESTROOM	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
C209	RESTROOM	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
C210	RESTROOM	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
C211	RESTROOM	CT-4	CTB-2	PF-3	PF-3	PF-3	PF-3	CT-3	6	PF-4	No	No	
C220	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C221	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C222	SMALL GROUP	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C223	CIRCULATION	PC-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	ACP-1	No	Yes	
C224	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C225	SMALL GROUP	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C230	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C231	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C232	COLLABORATION	PC-1	RB-1	PF-3	RCP-1/GWC-1	PF-3	PF-3	-	-	EXP	No	Yes	
C233	SMALL GROUP	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C234	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C235	SMALL GROUP	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C240	UPPER SDC	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C241	FIRE RISER	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C242	S.O. RR	CT-2	CTB-1	PF-3	PF-3	PF-3	PF-3	CT-1	6	PF-4	No	No	
C243	CUSTODIAL	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	FRP	4'	EXP	No	No	
C244	MECHANICAL	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C245	ELECTRICAL	CS-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	No	
C246	CIRCULATION	PC-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	ACP-1	No	Yes	
C247	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C248	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	
C249	COLLABORATION	PC-1	RB-1	PF-3	RCP-1/GWC-1	PF-3	PF-3	-	-	EXP	No	Yes	
C250	CLASSROOM	CPT-1	RB-1	PF-3	PF-3	PF-3	PF-3	-	-	EXP	No	Yes	

PAINT FINISHES

PF-1	PAINT, SEMI-GLOSS, PRIMED STEEL, INTERIOR - 099123
PF-2	PAINT, SEMI-GLOSS, MISC. FERROUS MTL, INT - 099123
PF-3	PAINT, EGGSHELL, GYPSUM BOARD SURFACES - 099123
PF-4	PAINT, SEMI-GLOSS, GYPSUM BOARD SURFACES - 099123
PF-5	PAINT, SEMI-GLOSS, WOOD - 099123
PF-6	PAINT, LOW SHEEN, PREVIOUSLY PAINTED WOOD - 099123
PF-7	DRY FALL, FLAT, CEILINGS - 099123
PFX-1	PAINT, GLOSS, GALV. MTL, EXT - 099113
PFX-2	PAINT, SEMI-GLOSS, MISC. FERROUS MTL, EXT - 099113
PFX-3	PAINT, FLAT, PORTLAND CEMENT PLASTER & CONCRETE - 099113
PFX-4	PAINT, LOW SHEEN, WOOD - 099123

FINISH SCHEDULE NOTES

ACP-1	2'X2' ACOUSTICAL CEILING PANEL - 055113
ACP-2	2'X2' ACOUSTICAL CEILING PANEL, WASHABLE - 055113
ACP-3	ACOUSTICAL CEILING CLOUD - 055113
ACP-4	2'X2' ACOUSTICAL CEILING PANEL - 055113
ACP-5	2'X2' ACOUSTICAL CEILING PANEL - 055113
LMC-1	1'X8' METAL PLANK PANEL - 095423
LMC-2	1'X8' CURVED PERFORATED METAL PLANK PANEL - 095423
AWP-1	ACOUSTICAL WALL PANEL, 1" THICK - 098433
AWP-2	ACOUSTICAL WALL PANEL, 2" THICK - 098433
AWP-4	ACOUSTICAL WALL PANEL, 4" THICK - 098433
CPT-1	CARPET - 096816 (FIELD)
CPT-2	CARPET - 096816 (ACCENT)
CPT-3	CARPET - 096816 (ACCENT)
CPT-4	CARPET - 096816 (ACCENT)
CPT-5	CARPET - 096816 (WALK OFF MAT)
CS-1	SEALED CONCRETE (CLEAR) - 033000
CT-1	CERAMIC TILE - 4-1/4"X4-1/4" - INT. WALL - 093000
CT-2	FLOOR TILE - 24"X48" - INT. FLOOR - 093000
CT-3	WALL TILE - 12"X24" - INT. WALL - 093000
CT-4	GLASS MOSAIC TILE - 1"X1" - 93000
CTB-1	CERAMIC TILE - SLIMFOOT BASE - 093000
EXP	EXPOSED STRUCTURE
FF	FACTORY FINISH
FRP	RIGID PROTECTIVE WALL COVERING - 097217
GB	GYP BOARD, 5/8" - 092900
GBX	GYP BOARD FIRE RATED, 5/8" - 092900
GBP	GYP BOARD PAPERLESS, 5/8" - 092900
GBPX	GYP BOARD PAPERLESS, FIRE RATED 5/8" - 092900
GBX	GYP BOARD, FIRE RATED - 092900
GS	GALVANIZED STEEL - 055000
PC-1	POLISHED CONCRETE - 033510 (COLOR 1-NATURAL GREY)
PC-2	POLISHED CONCRETE - 033510 (COLOR 2-CONCRETE DYE)
PC-3	POLISHED CONCRETE - 033510 (COLOR 3-CONCRETE DYE)
PC-4	POLISHED CONCRETE- 033510 (COLOR 4-NATURAL GREY WITH SEEDED AGGREGATE)
PF-1	PAINT, SEMI-GLOSS, PRIMED STEEL, INTERIOR - 099123
PF-2	PAINT, SEMI-GLOSS, MISC. FERROUS MTL, INT - 099123
PF-3	PAINT, EGGSHELL, GYPSUM BOARD SURFACES - 099123
PF-4	PAINT, SEMI-GLOSS, GYPSUM BOARD SURFACES - 099123
PF-5	PAINT, SEMI-GLOSS, WOOD - 099123
PF-6	PAINT, LOW SHEEN, PREVIOUSLY PAINTED WOOD - 099123
PF-7	DRY FALL, FLAT, CEILINGS - 099123
PFX-1	PAINT, GLOSS, GALV. MTL, EXT - 099113
PFX-2	PAINT, SEMI-GLOSS, MISC. FERROUS MTL, EXT - 099113
PFX-3	PAINT, FLAT, PORTLAND CEMENT PLASTER & CONCRETE - 099113
PFX-4	PAINT, LOW SHEEN, WOOD - 099123
PLWD	PLYWOOD 3/4" FIRE RATED - 062023
PLAM	PLASTIC LAMINATE PANEL - 064116
PRFN	PREFINISHED
QT-1	QUARRY TILE - 093000
RB-1	4" RESILIENT BASE - COVED - 096513
RF-1	RESILIENT FLOORING - 096516
RFS-1	RESINOUS FLOORING SYSTEM - 096723
SS	STAINLESS STEEL WALL FACING - 114000
ST-1	TRANSPARENT STAIN, WOOD SURFACES - 099300
VWC-1	VINYL WALL COVERING - 097200
VWC-2	VINYL WALL COVERING - CUSTOM PRINTED- 097200
VWC-3	VINYL WALL COVERING - PROJECTION SURFACE - 097200
VCTWP	VINYL COVERED TACKABLE WALL PANEL - 097200
RCP-1	RESIN COMPOSITE PANEL
GWC-1	GRAPHIC WALL COVERING
CWC-1	COMPOSITE WOOD CLADDING
CWP-1	COMPOSITE WOOD PLANK - FIELD COLOR
CWP-2	COMPOSITE WOOD PLANK - ACCENT COLOR



FINISH REMARKS

1. SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION.
2. SEE FLOOR PLAN FOR PATTERN, LAYOUT AND LOCATION OF FLOOR FINISHES.
3. PAINT ALL EXPOSED STRUCTURAL STEEL, METAL DECK, DUCTWORK & ELECTRICAL COMPONENTS.
4. CERAMIC TILE WAINSCOT (CT-1) AT MOP SINK ONLY, 4' HEIGHT x WIDTH & LENGTH OF SINK.
5. PAINT FLAT BLACK ABOVE CLOUDS
6. SLOPE SLAB TO DRAIN PER PLAN
7. 2" SLAB DEPRESSION. REFER TO FOR CERAMIC TILE ASSEMBLY & UNCOUPLING MEMBRANE 093000
8. 2 1/2" SLAB DEPRESSION
9. 7 1/2" SLAB DEPRESSION
10. STAIRS CARPETED
11. EXTERIOR STAIR FINISH PER ENLARGED SITE PLAN
12. MOTORIZED BLINDS

GENERAL NOTES

A. ALL FINISHES SHALL COMPLY WITH C.B.C. CHAPTER 8, AND WITH TITLE 19 C.C.R. & 2010 C.F.C. CHAPTER 8

B. PAINT ALL EXPOSED STRUCTURAL STEEL, METAL DECK, DUCTWORK & ELECTRICAL COMPONENTS AT INTERIOR

C. WHERE WALL CERAMIC TILE OCCURS- USE 1/2" BACKER BOARD

D. SEE DETAIL FOR TRANSITION BETWEEN FLOOR MATERIALS

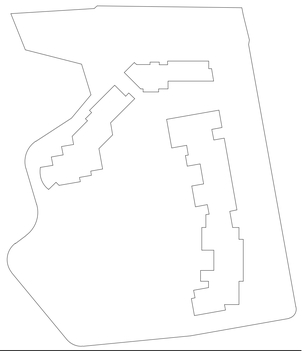
E. ALL BLINDS MANUAL U.N.O

F. SEE I.D. SHEETS FOR FLOOR FINISH PLANS

G. ALL FLOORING SHALL HAVE A COEFFICIENT OF FRICTION GREATER THAN 0.6, PER ASTM C1028.

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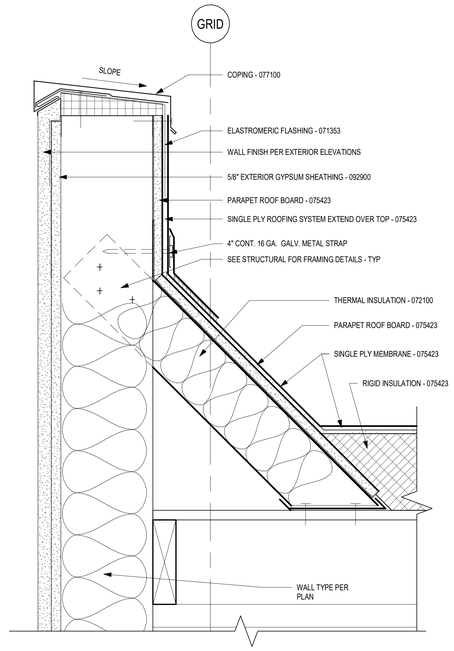
FINISH SCHEDULE

NO. DATE ISSUE

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DATE: 02/28/2020

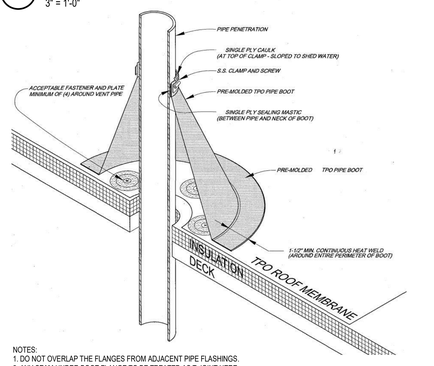
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15 ROOF - SINGLE PLY ROOF - PARAPET BRACING

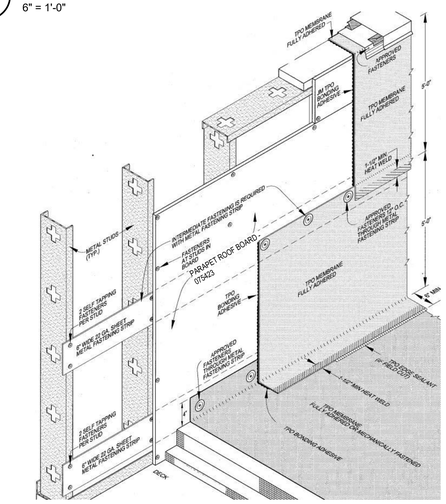
3" = 1'-0"



NOTES:
1. DO NOT OVERLAP THE FLANGES FROM ADJACENT PIPE FLASHINGS.
2. ANY SEAM UNDER BOOT FLANGE TO BE TREATED AS T-JOINT HERE
3. PIPE BOOTS ARE DESIGNED TO BE CUT VERTICALLY AND RE-WELDED, IF NECESSARY. 1" MIN. UP AT CUTS.
4. ON RE-ROOF OR RECOVER PROJECTS, VENT PIPES MUST BE CLEANED OF LARGE DEPOSITS OF ASPHALT. ALUMINUM TAPE IS WRAPPED AROUND THE PIPE AS A SEPARATION LAYER BETWEEN REMAINING ASPHALT AND VENT PIPE. NEW ASPHALT COATED CAST IRON PIPES MUST BE WRAPPED WITH JM ALUMINUM TAPE.
5. WHEN PRE-MOLDED VENT PIPE BOOT CANNOT BE INSTALLED, USE FIELD FABRICATED VENT PIPE FLASHING DETAIL, (SEE TF-51 IN JM BOOK).
6. FOR INSULATED PIPES LIKE CHILLER LINES:
   A) LOCATE OR RELOCATE PENETRATIONS THROUGH ROOF 24" APART FROM EACH OTHER.
   B) CUT AWAY INSULATION WHERE CLAMPING RING WILL BE INSTALLED AND HEAT WELD BASE. INSTALL AND SEAL TOP OF BOOT AROUND BARE PIPING BEFORE RE-INSULATING LINE AS NECESSARY.

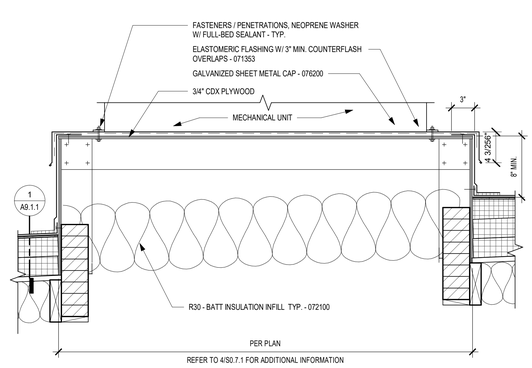
16 SINGLE PLY ROOF - PIPE BOOT

6" = 1'-0"



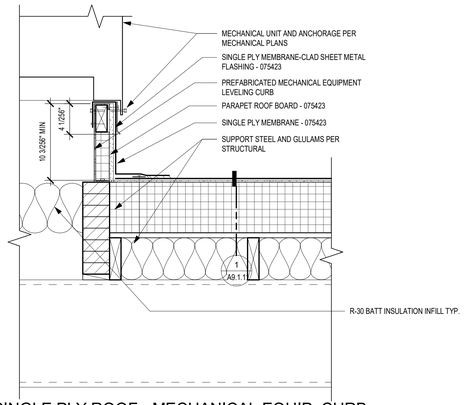
17 SINGLE PLY ROOF - HIGH WALL FLASHING

3" = 1'-0"



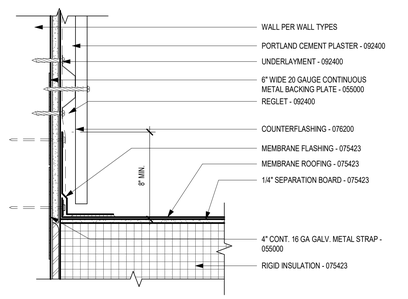
10 SINGLE PLY ROOF - ROOF APURTENANCE CURB

1 1/2" = 1'-0"



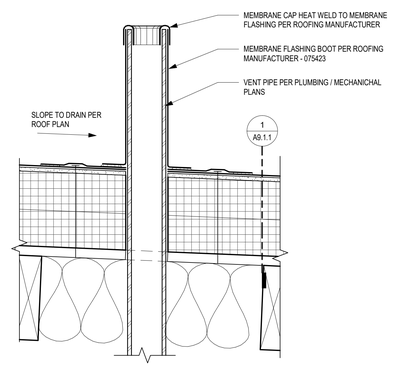
11 SINGLE PLY ROOF - MECHANICAL EQUIP. CURB

1 1/2" = 1'-0"



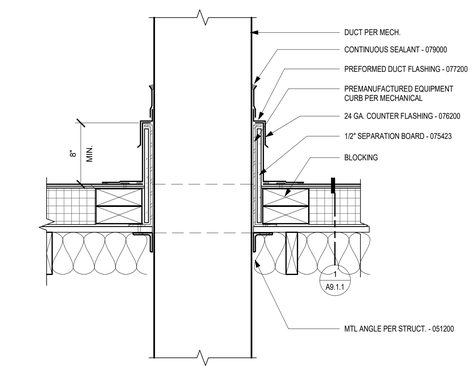
12 SINGLE PLY ROOF - FLASHING

3" = 1'-0"



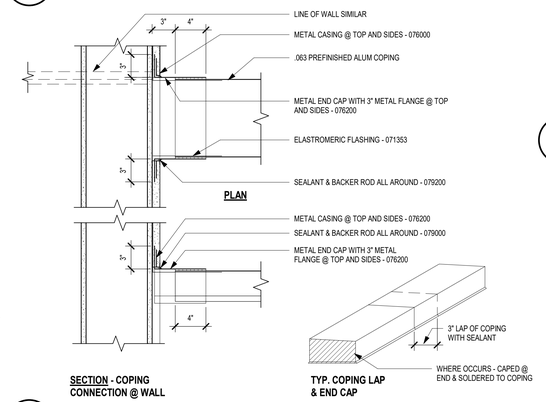
13 SINGLE PLY ROOF - VENT THROUGH ROOF

3" = 1'-0"



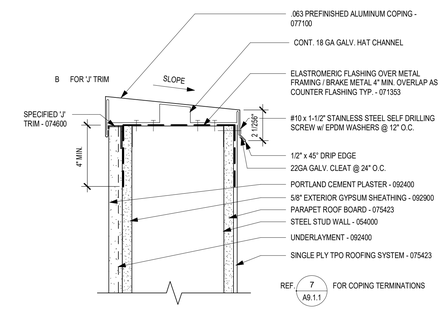
6 SINGLE PLY ROOF - DUCT THROUGH METAL ROOF DECK

1 1/2" = 1'-0"



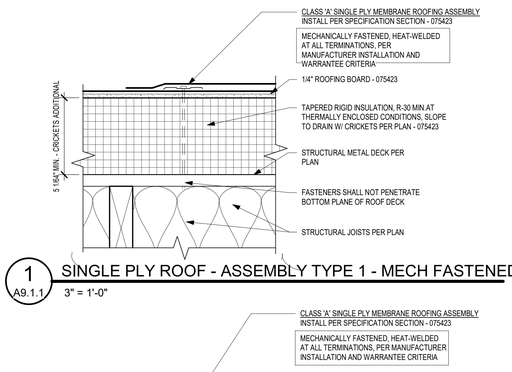
7 A9.1.1 EXT - TYPICAL COPING TERMINATIONS

1 1/2" = 1'-0"



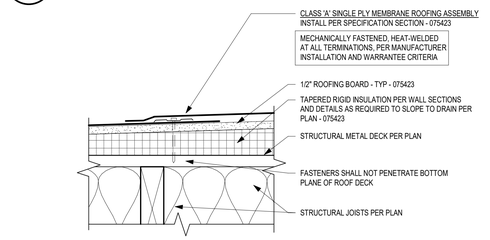
8 SINGLE PLY ROOF - TYP. PARAPET COPING - PLASTER

3" = 1'-0"



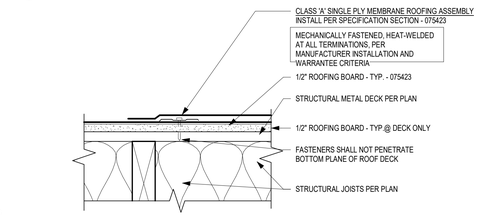
1 A9.1.1 SINGLE PLY ROOF - ASSEMBLY TYPE 1 - MECH FASTENED

3" = 1'-0"



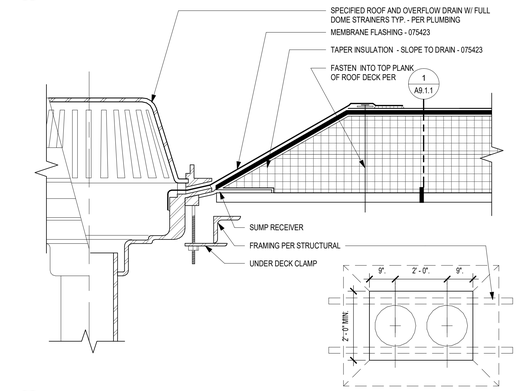
2 SINGLE PLY ROOF - ASSEMBLY TYPE 2 - MECH FASTENED

3" = 1'-0"



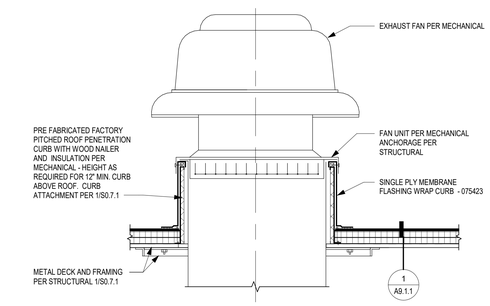
3 SINGLE PLY ROOF - ASSEMBLY TYPE 3 - MECH FASTENED

3" = 1'-0"



4 SINGLE PLY ROOF - TYPICAL ROOF DRAIN

3" = 1'-0"



5 SINGLE PLY ROOF - EXHAUST FAN CURB

1/2" = 1'-0"

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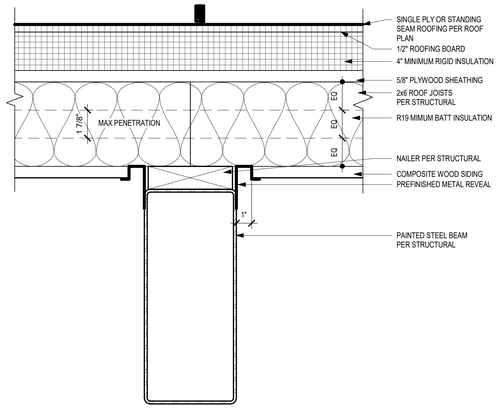
ROOF DETAILS - SINGLE PLY

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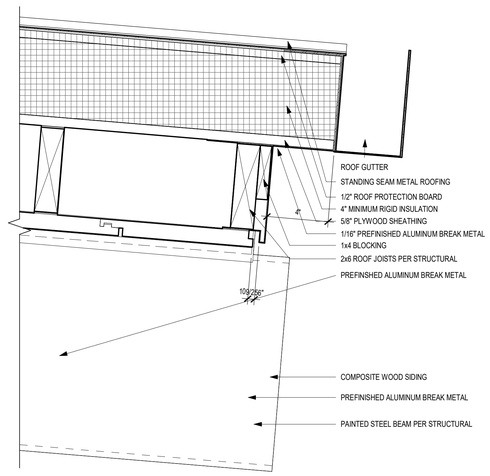
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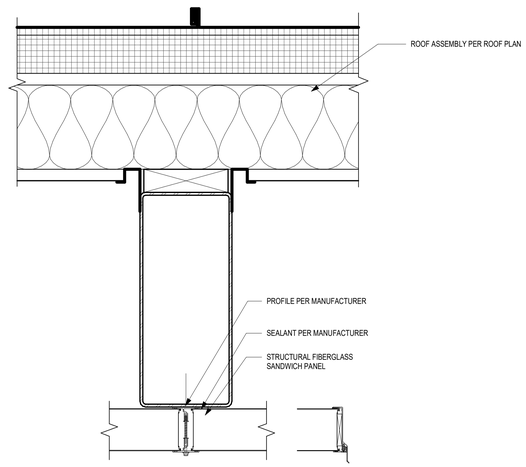
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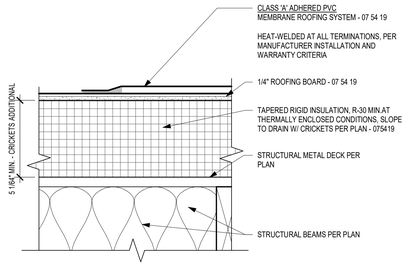
6 ROOF AND CEILING AT BEAM
AA6.0.1
3" = 1'-0"



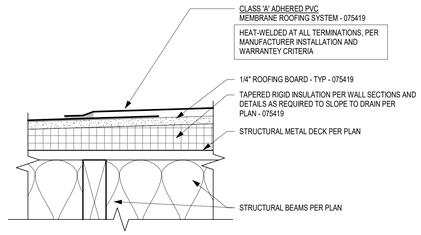
7 EXT - ROOF - ROOF EDGE
3" = 1'-0"



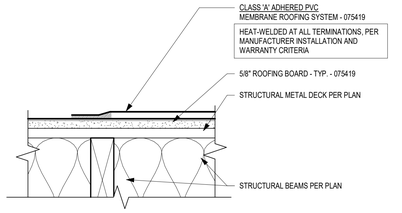
8 CANOPY AT ROOF
3" = 1'-0"



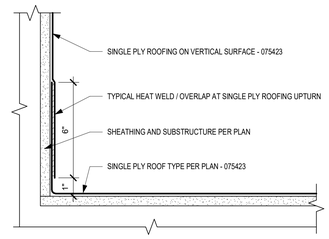
1 SINGLE PLY ROOF - ASSEMBLY TYPE 1 - ADHERED
3" = 1'-0"



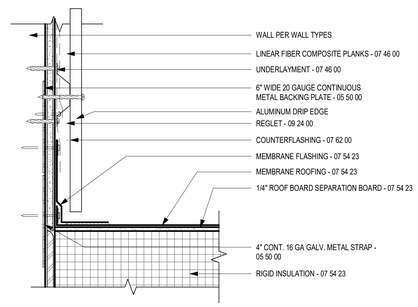
2 SINGLE PLY ROOF - ASSEMBLY TYPE 2 - ADHERED
3" = 1'-0"



3 SINGLE PLY ROOF - ASSEMBLY TYPE 3 - ADHERED
3" = 1'-0"



4 ROOF - SINGLE PLY ROOF - TYPICAL UPTURN
3" = 1'-0"



5 SINGLE PLY ROOF - FLASHING @ F.C. SIDING
3" = 1'-0"

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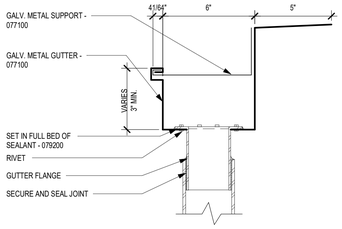
ROOF DETAILS - SINGLE PLY

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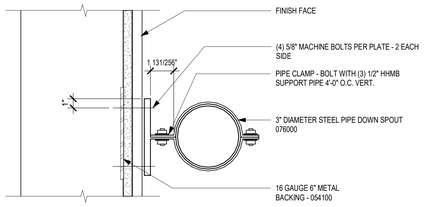
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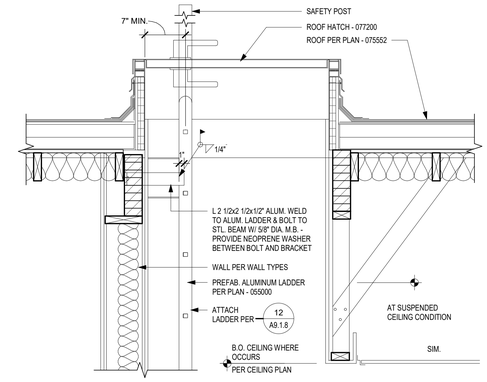
13 ROOF - DOWNSPOUT - GUTTER CONNECTION TYP.

3" = 1'-0"



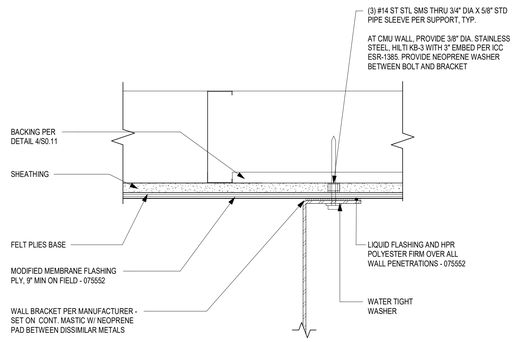
14 ROOF - DOWNSPOUT ATTACHMENT BRACKET

3" = 1'-0"



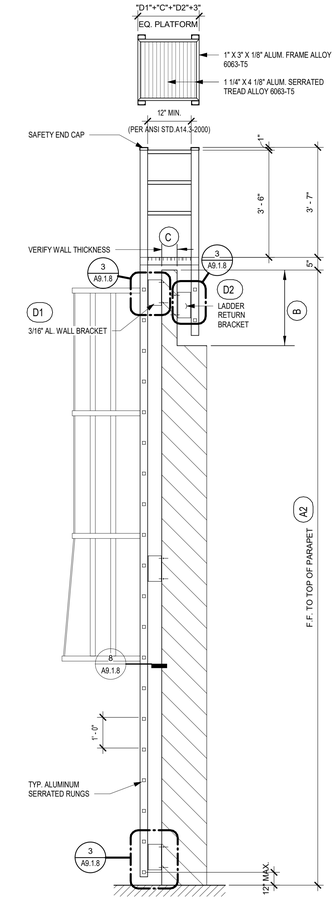
9 ROOF - ROOF HATCH

1" = 1'-0"



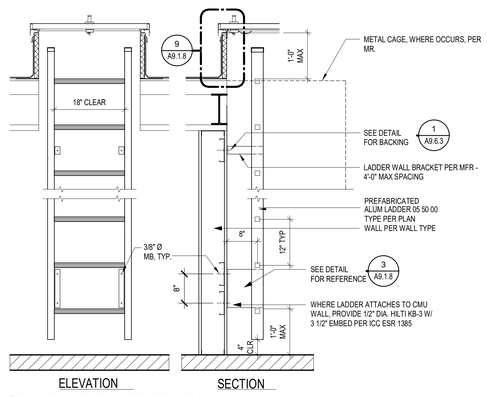
6 BUR ROOF - ROOF LADDER ATTACHMENT FLASHING

3" = 1'-0"



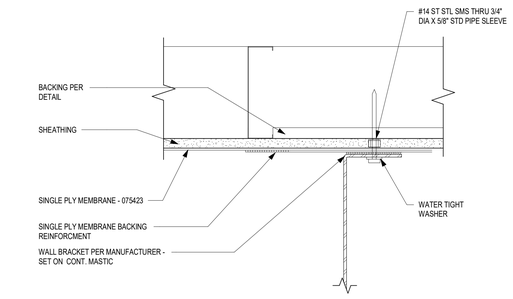
1 EXT - LADDER ELEVATION1

1/2" = 1'-0"



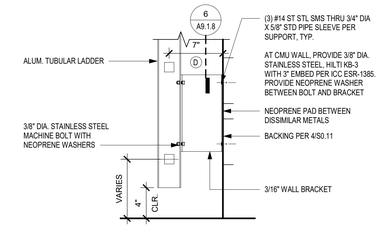
11 EXT - ROOF ACCESS LADDER

3/4" = 1'-0"



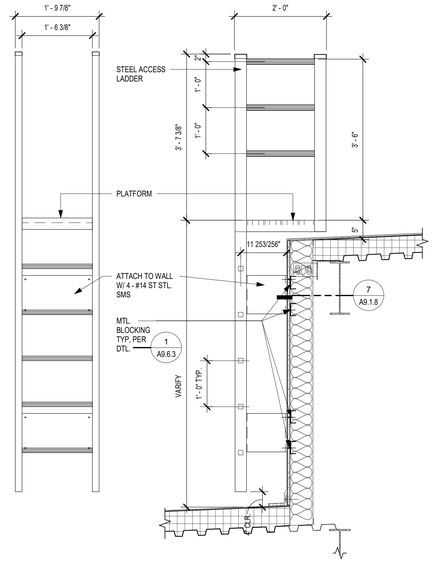
7 SINGLE PLY ROOF - ROOF LADDER ATTACHMENT FLASHING

3" = 1'-0"



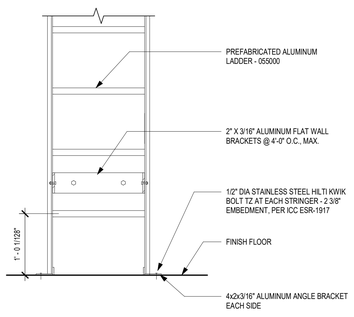
3 EXT - ROOF LADDER SUPPORT

1 1/2" = 1'-0"



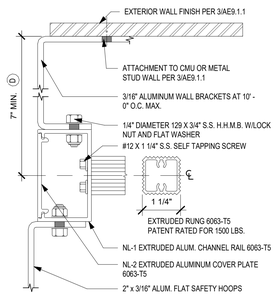
16 ROOF - ROOF LADDER

3/4" = 1'-0"



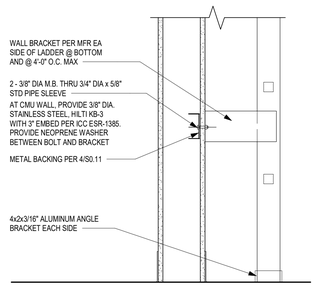
12 EXT - ROOF LADDER ATTACHMENT

1" = 1'-0"



8 EXT - ROOF LADDER CAGE ATTACHMENT

6" = 1'-0"



4 EXT - ROOF LADDER SUPPORT AT BOTTOM

1 1/2" = 1'-0"

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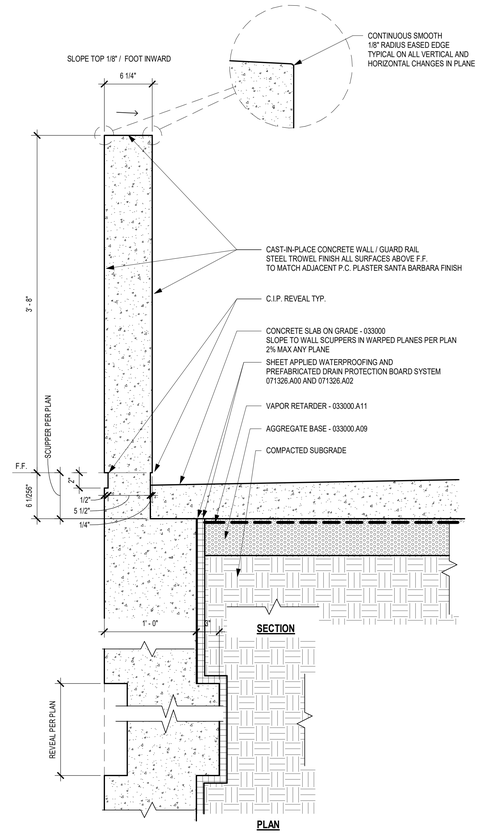
ROOF DETAILS - HATCH/ LADDER/MISC

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PROJECT NO: 19009
DATE: 02/28/2020

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A9.1.8

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1 EXT - C.I.P. CONCRETE GUARDRAIL

1 1/2" = 1'-0"

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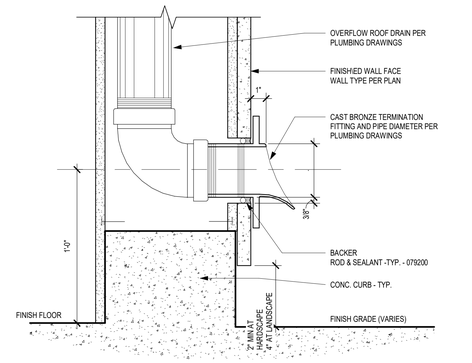
EXTERIOR DETAILS - GUARDRAILS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

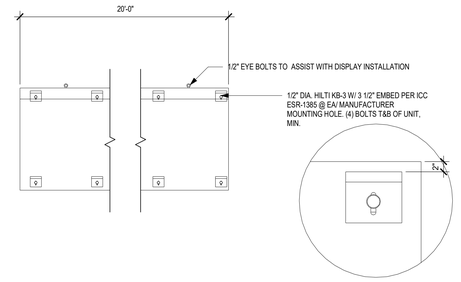
DRAWING
A9.2.5

2/24/2020 7:49:34 AM BIM 360://19009-00 Del Mar Heights ES/ARCH-BNDS-DMHS.rvt



1 EXT - OVERFLOW DRAIN ESCUTCHEON

3" = 1'-0"



3 EXT - MARQUEE ANCHORAGE

1" = 1'-0"

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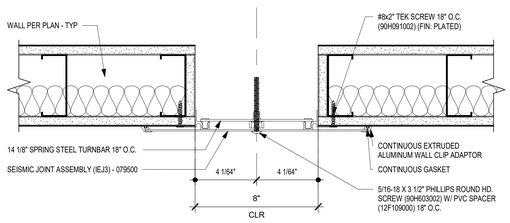
EXTERIOR DETAILS - MISC

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

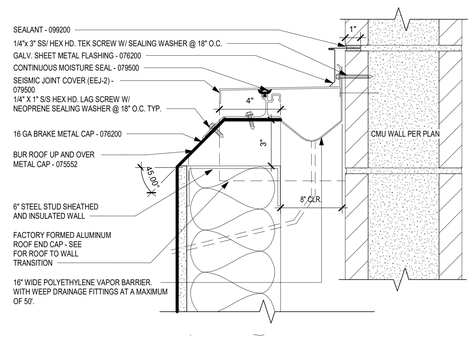
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A9.2.7

2/24/2020 7:49:35 AM BIM 360://19009-00 Del Mar Heights ES/ARCH-BNDS-DMHS.rvt



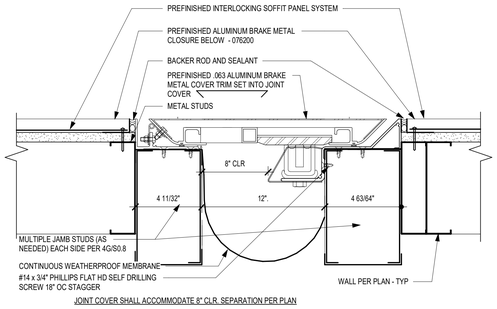
13 INT - SEISMIC JOINT - WALL-TO-WALL (NON RATED)

3" = 1'-0"



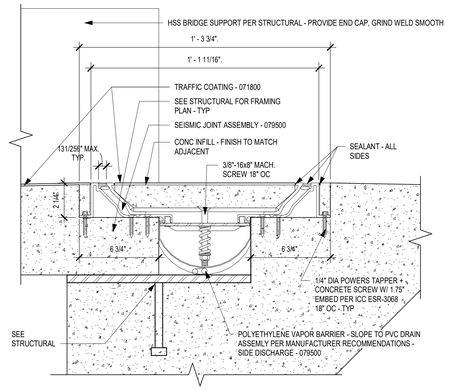
9 ROOF - SEISMIC ROOF CMU JOINT

3" = 1'-0"



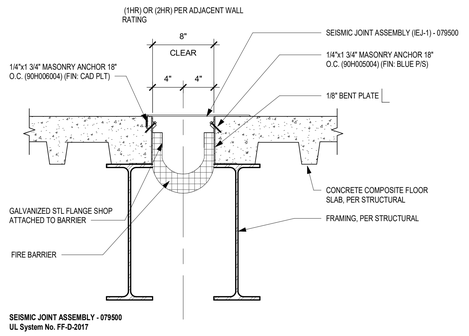
5 EXT - SEISMIC JOINT - WALL/WALL (METAL) - SOFFIT SIM

3" = 1'-0"



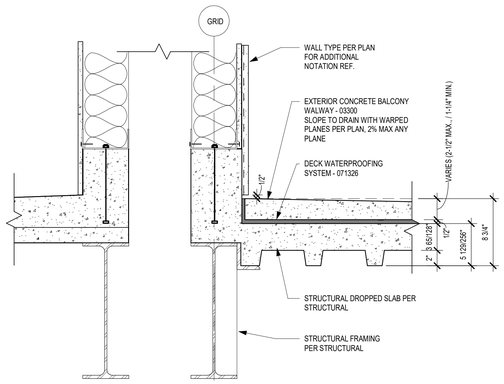
1 EXT - SEISMIC JOINT - BRIDGE

3" = 1'-0"



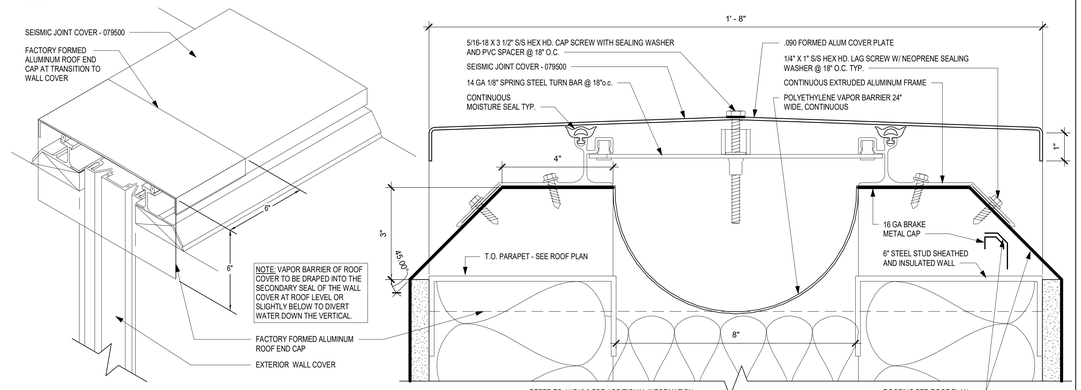
14 INT - SEISMIC JOINT - FLOOR-TO-FLOOR (1HR/2HR)

1 1/2" = 1'-0"



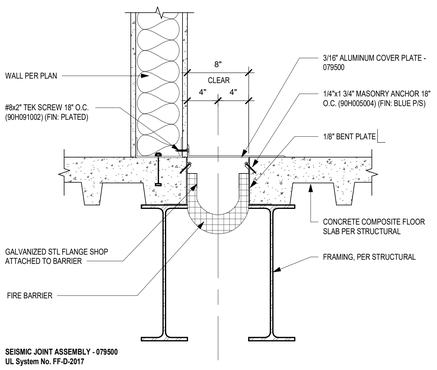
10 EXT - WALL BASE @ DUAL SLAB & EXPANSION JOINT

1 1/2" = 1'-0"



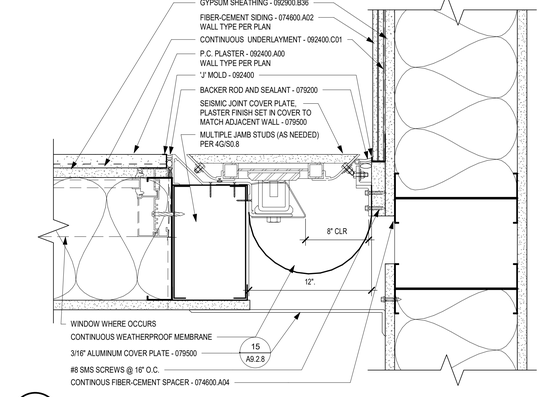
6 ROOF - SEISMIC JOINT COVER - ROOF TO ROOF W/ PARAPET WALL

6" = 1'-0"



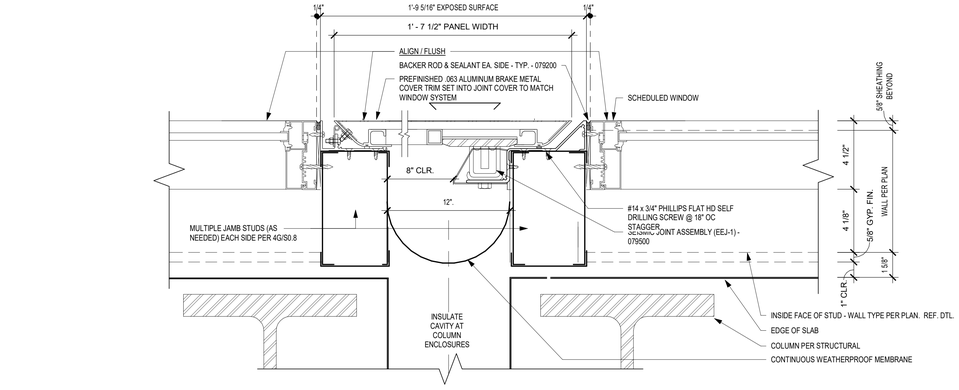
15 INT - SEISMIC JOINT - FLOOR-TO-WALL (1HR)

A9.2.8 1 1/2" = 1'-0"



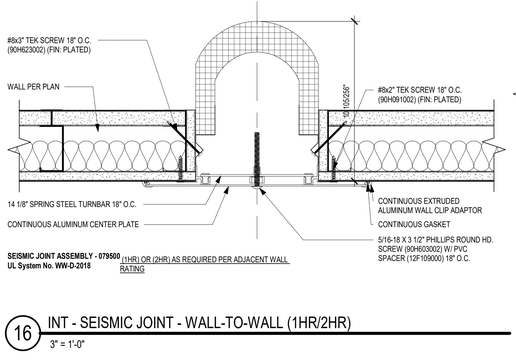
11 EXT - SEISMIC JOINT- WALL TO WALL (PLASTER & SIDING)

A9.2.8 3" = 1'-0"



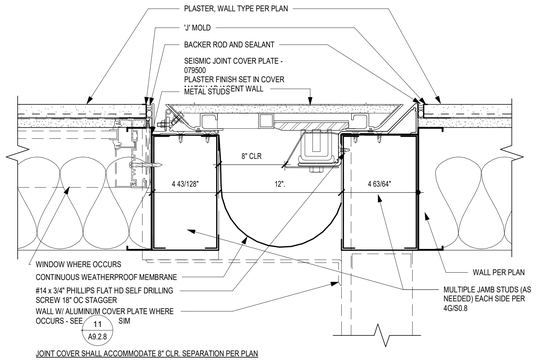
3 EXT - SEISMIC JOINT - WINDOW-WINDOW

3" = 1'-0"



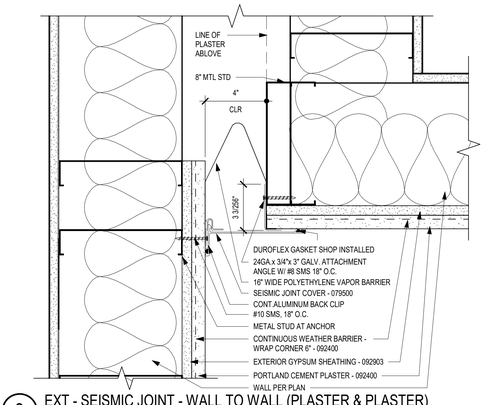
16 INT - SEISMIC JOINT - WALL-TO-WALL (1HR/2HR)

3" = 1'-0"



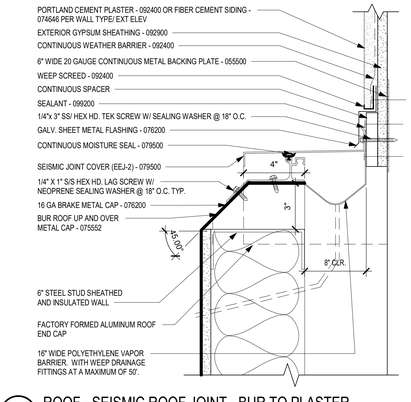
12 EXT - SEISMIC JOINT - WALL TO WALL (PLASTER & TILE)

3" = 1'-0"



8 EXT - SEISMIC JOINT - WALL TO WALL (PLASTER & PLASTER)

3" = 1'-0"



7 ROOF - SEISMIC ROOF JOINT - BUR TO PLASTER

3" = 1'-0"

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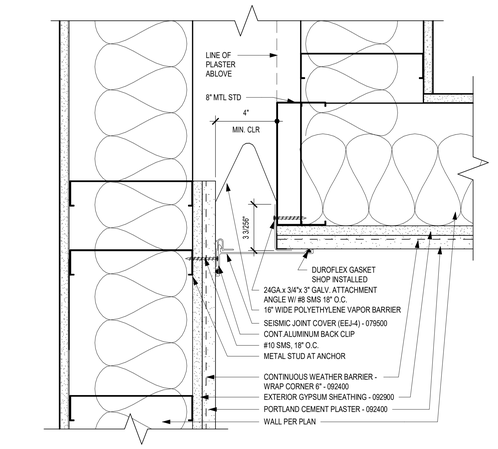
SEISMIC SEPARATION CLOSURE DETAILS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

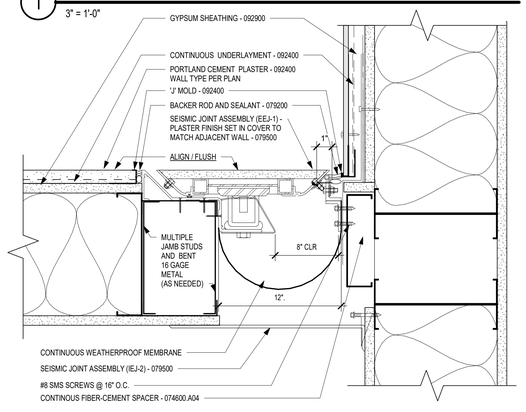
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A9.2.8

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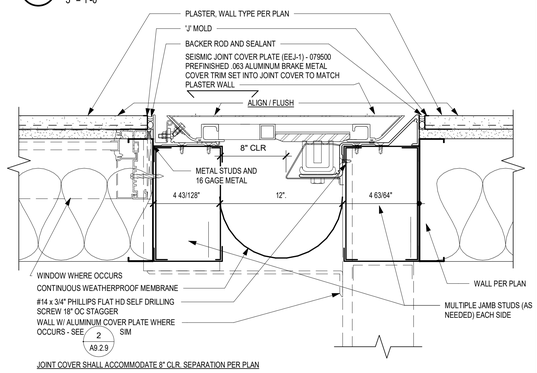
1 EXT - SEISMIC WALL JOINT

3" = 1'-0"



2 EXT - SEISMIC JOINT- WALL/WALL CORNER (PLASTER)

3" = 1'-0"



3 EXT - SEISMIC JOINT - WALL/WALL (PLASTER)

3" = 1'-0"

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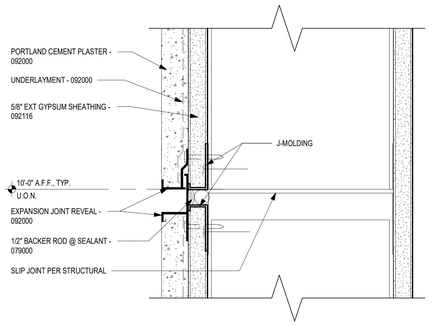
SEISMIC SEPARATION CLOSURE DETAILS

NO. DATE ISSUE

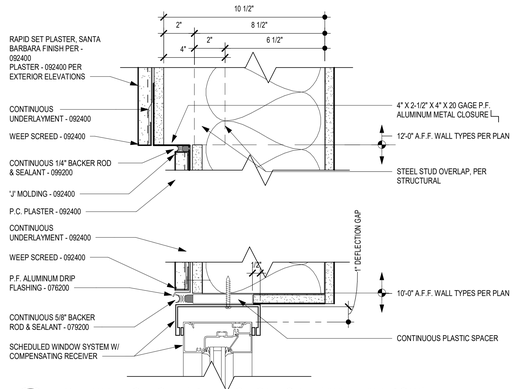
PROJECT NO: 19009
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A9.2.9

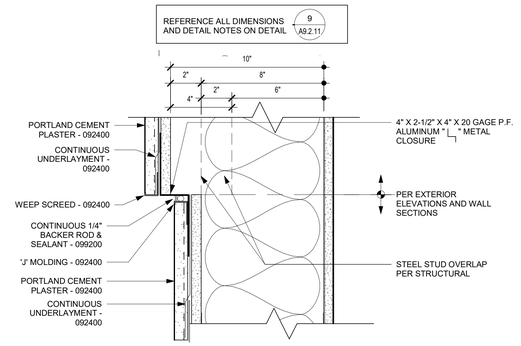
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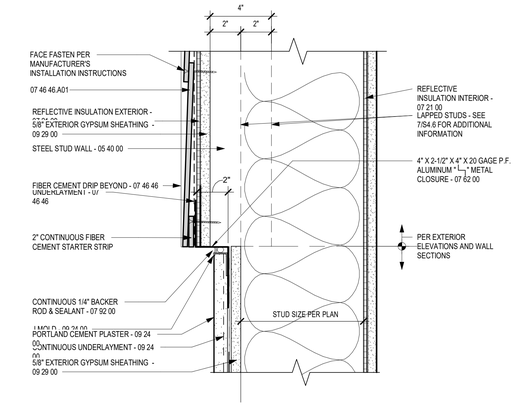
13 EXT - EXP. REVEAL @ PLASTER - ALIGN WITH TOP OF WIN.
6" = 1'-0"



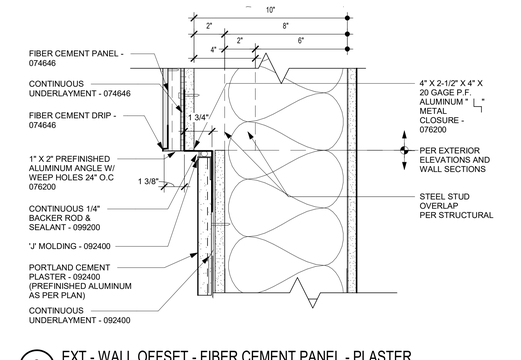
9 EXT - WALL OFFSET / DEFLECTION JOINT (WALL-WINDOW)
3" = 1'-0"



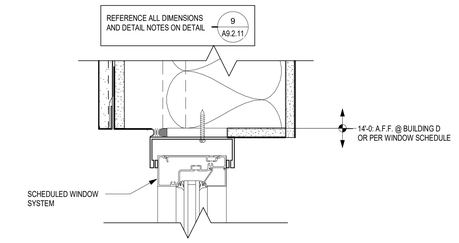
5 EXT - WALL OFFSET - PLASTER
3" = 1'-0"



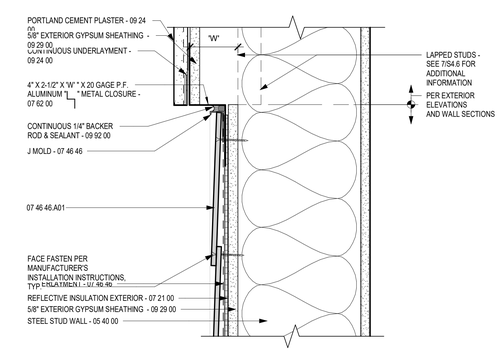
10 EXT - WALL OFFSET - F.C. PANEL / P.C. PLASTER
3" = 1'-0"



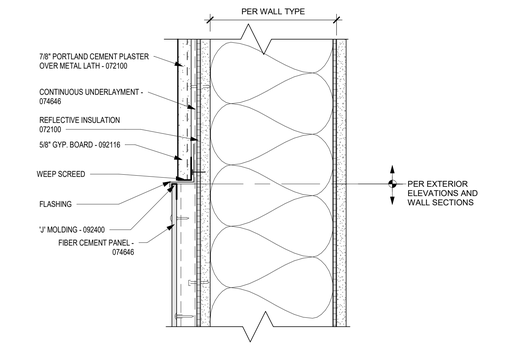
6 EXT - WALL OFFSET - FIBER CEMENT PANEL - PLASTER
3" = 1'-0"



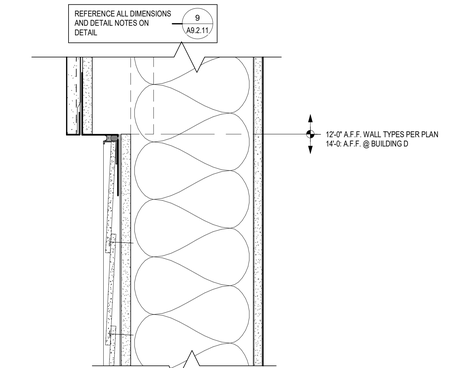
2 EXT - WALL OFFSET
3" = 1'-0"



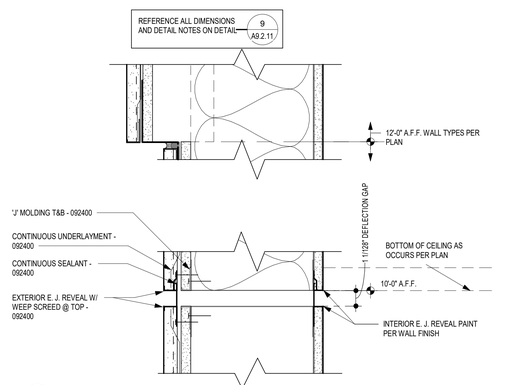
11 EXT - WALL OFFSET - P.C. PLASTER / F.C. SIDING
3" = 1'-0"



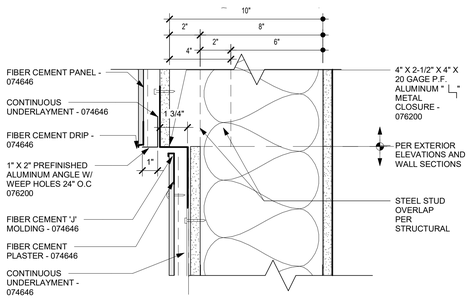
7 EXT - WALL OFFSET - FIBER CEMENT / PLASTER - BLDG B3
3" = 1'-0"



3 EXT - WALL OFFSET (PLASTER-CEMENTITIOUS SIDING)
3" = 1'-0"



8 EXT - WALL OFFSET / DEFLECTION JOINT (WALL-WALL)
3" = 1'-0"



4 EXT - WALL OFFSET - FIBER CEMENT PANEL
3" = 1'-0"

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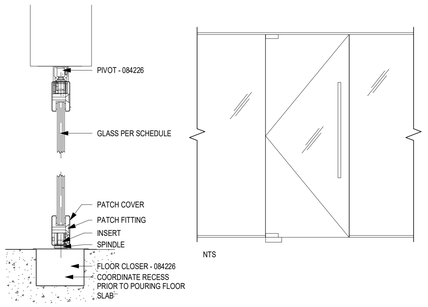
EXTERIOR DETAILS - WALL OFFSETS

NO. DATE ISSUE

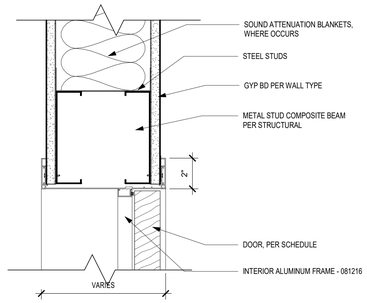
PROJECT NO: 19009
DATE: 02/28/2020

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A9.2.11

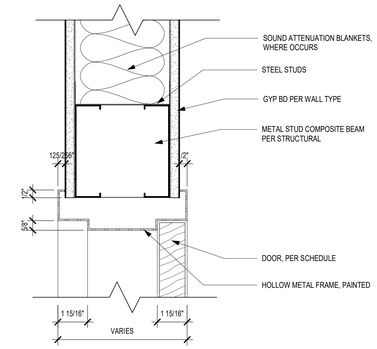
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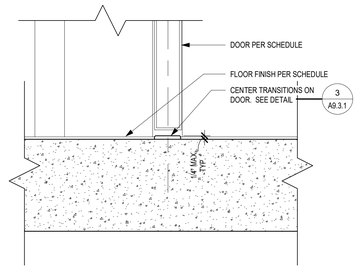
13 DOOR - FULL GLASS INTERIOR
3" = 1'-0"



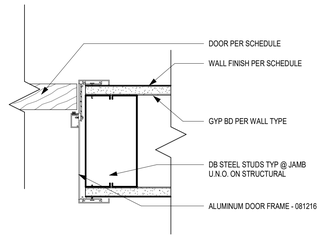
9 DOOR - ALUM FRAME - INTERIOR HEAD
3" = 1'-0"



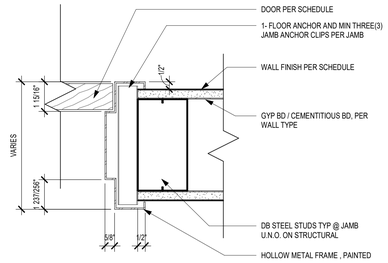
5 DOOR - INTERIOR DOOR HOLLOW METAL HEAD
3" = 1'-0"



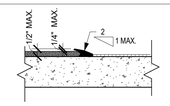
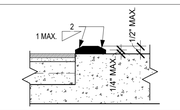
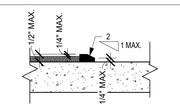
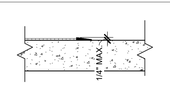
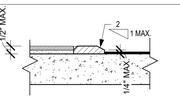
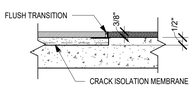
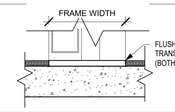
1 DOOR - THRESHOLD (INTERIOR)
3" = 1'-0"



10 DOOR - ALUM FRAME - INTERIOR JAMB
3" = 1'-0"

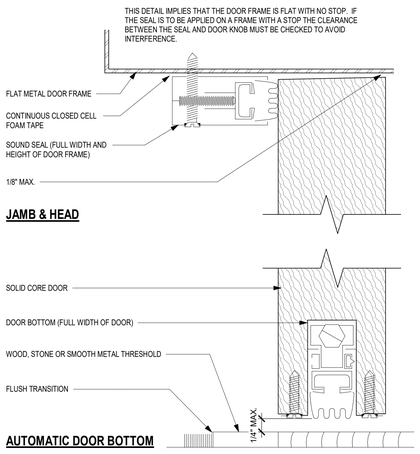


6 DOOR - INTERIOR DOOR HOLLOW METAL JAMB
3" = 1'-0"

A		**TRANSITION #1** CARPET TO RESILIENT MATERIAL: PRE-MOLDED VINYL MANUFACTURE: BURKEMERCER DESIGN: 710 SERIES
B		**TRANSITION #2** TILE TO CONCRETE MATERIAL: MARBLE
C		**TRANSITION #3** CARPET TO CONCRETE MATERIAL: PRE-MOLDED VINYL MANUFACTURE: BURKEMERCER DESIGN: 140 SERIES
D		**TRANSITION #4** RESILIENT TO CONCRETE MATERIAL: PRE-MOLDED VINYL MANUFACTURE: BURKEMERCER DESIGN: 633 SERIES
E		**TRANSITION #5** TILE TO RESILIENT MATERIAL: MARBLE
F		**TRANSITION #6** TILE TO CARPET MATERIAL: SOLID BRASS MANUFACTURE: SCHLUTER DESIGN: SCHIENE E
G		**TRANSITION #7** CARPET TO CARPET AT RATED DOOR MATERIAL: NEOPRENE MANUFACTURE: BURKEMERCER DESIGN: 684 FULL SADDLE THRESHOLD UL-108

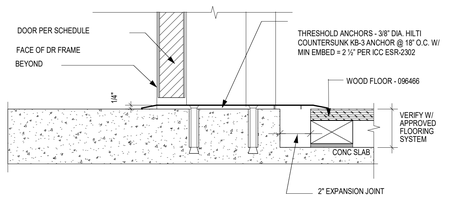
NOTES:
1. CENTER TRANSITION STRIP AT DOOR OPENINGS WHERE OCCURS.
2. SUBSTRATE VARIES.
3. NOT ALL TRANSITION STRIPS USED.

3 A9.3.1 DOOR - FLOOR FINISH TRANSITIONS
3" = 1'-0"

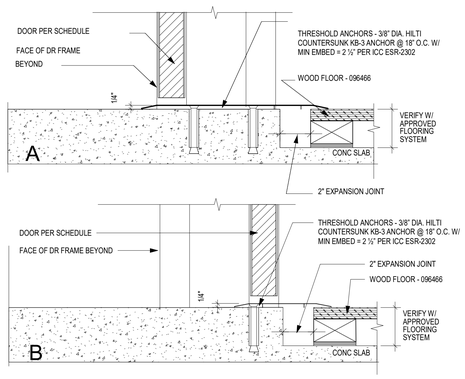


NOTES:
1. ADJUST PERIMETER SEALS AND AUTOMATIC DOOR BOTTOM FOR CONTINUOUS CONTACT WITHOUT BINDING.
2. MITER AND GLUE SEALS AT JUNCTION OF HEAD AND JAMB.

16 DOOR - ACOUSTICAL SOUND SEAL
1 : 1



11 DOOR - INTERIOR - THRESHOLD @ RWF 1
3" = 1'-0"



12 DOOR - INTERIOR - THRESHOLD @ RWF 2
3" = 1'-0"

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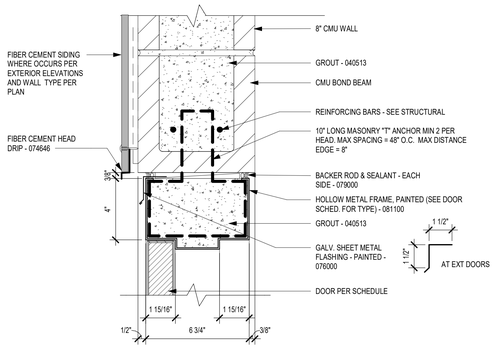
DOOR DETAILS - INTERIOR

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

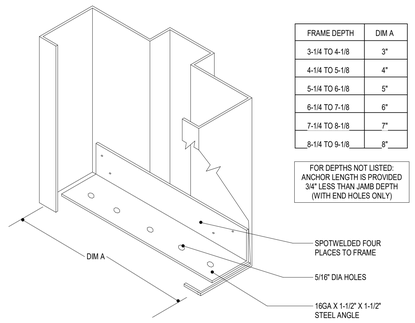
DRAWING
A9.3.1

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2/24/2020 7:49:46 AM



13 DOOR - HEAD @ CMU (4")

3" = 1'-0"

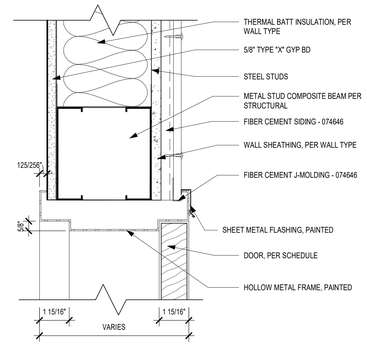


FRAME DEPTH	DIM A
3-1/4 TO 4-1/8	3"
4-1/4 TO 5-1/8	4"
5-1/4 TO 6-1/8	5"
6-1/4 TO 7-1/8	6"
7-1/4 TO 8-1/8	7"
8-1/4 TO 9-1/8	8"

FOR DEPTHS NOT LISTED: ANCHOR LENGTH IS PROVIDED 3/4" LESS THAN JAMB DEPTH (WITH END HOLES ONLY)

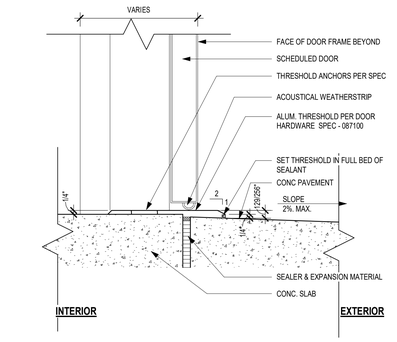
9 DOOR - FLOOR ANCHOR @ MASONRY

6" = 1'-0"



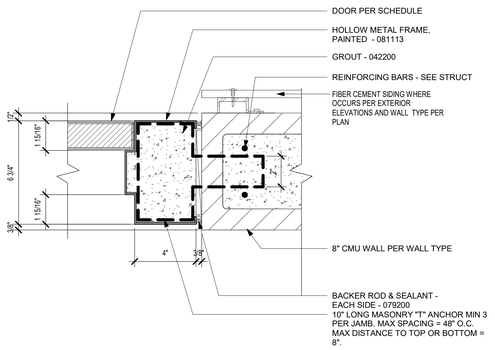
5 DOOR - HM FRAME/EXTERIOR - HEAD @ FIBER CEMENT

3" = 1'-0"



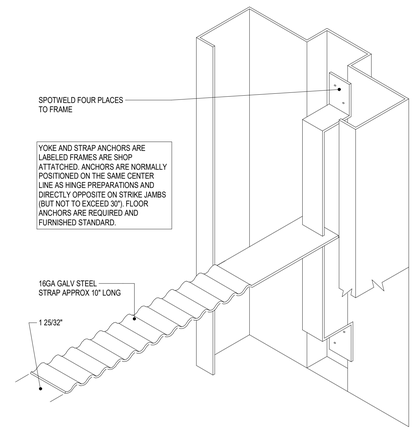
1 DOOR - THRESHOLD (EXTERIOR)

3" = 1'-0"



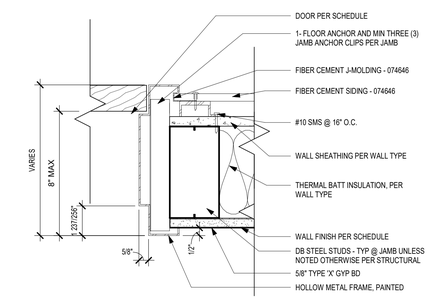
14 DOOR - JAMB @ CMU (4")

3" = 1'-0"



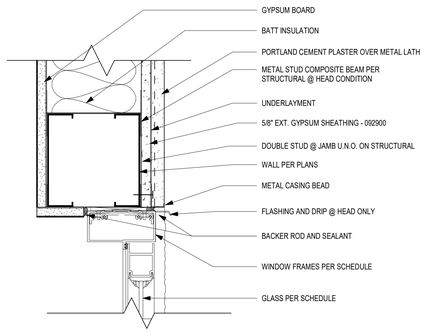
10 DOOR - JAMB ANCHOR @ MASONRY

6" = 1'-0"



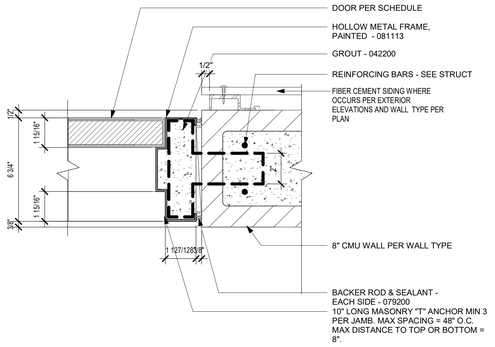
6 EXTERIOR DOOR JAMB - FIBER CEMENT

3" = 1'-0"



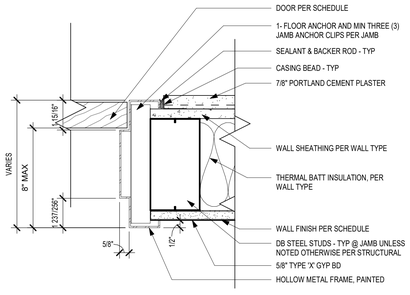
2 DOOR - EXT. ALUM. HEAD/JAMB WALL PLASTER

3" = 1'-0"



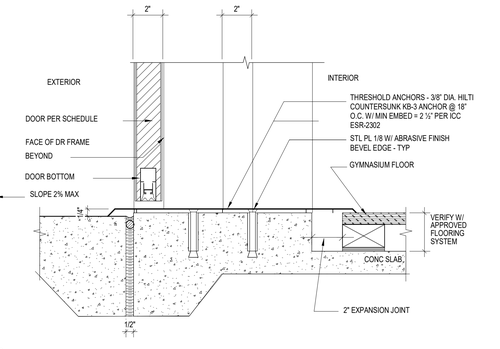
15 DOOR - JAMB @ CMU (2")

3" = 1'-0"



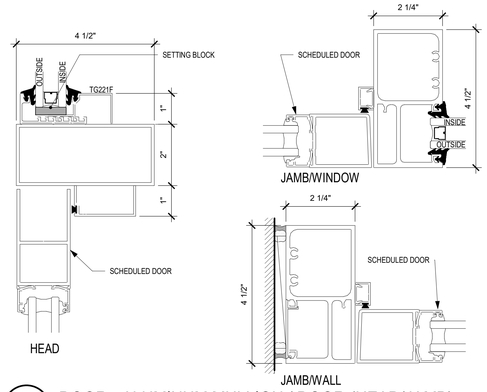
3 DOOR - EXTERIOR DOOR JAMB A

3" = 1'-0"



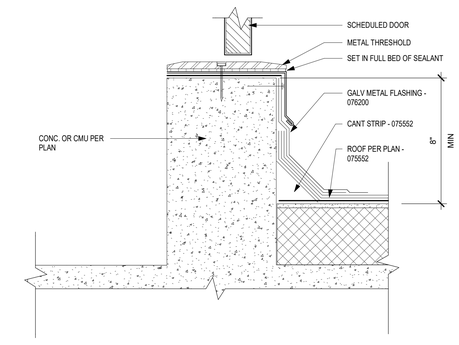
16 DOOR- EXTERIOR - SILL @ RWF

3" = 1'-0"



7 DOOR - ALUMINUM MULLION / DOOR (HEAD/JAMB)

6" = 1'-0"



4 DOOR - THRESHOLD @ MECHANICAL WELL

3" = 1'-0"

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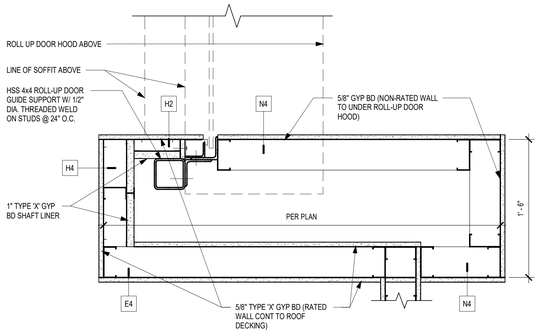
DOOR DETAILS - EXTERIOR

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

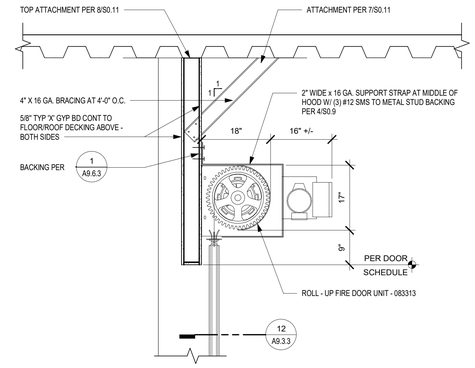
DRAWING
A9.3.2

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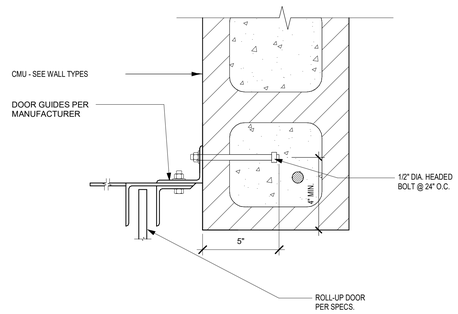
13 DOOR - OVERHEAD DOOR JAMB TYPE 1

1 1/2" = 1'-0"



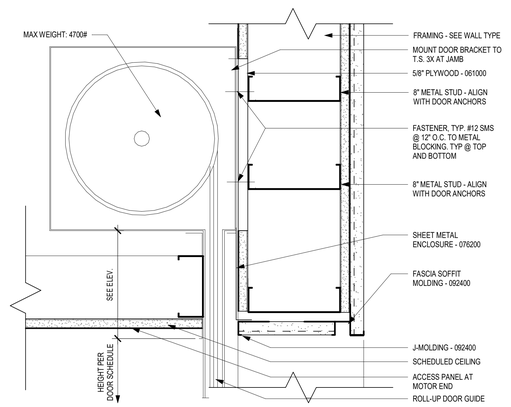
9 DOOR - OVERHEAD DOOR - HEAD

3/4" = 1'-0"



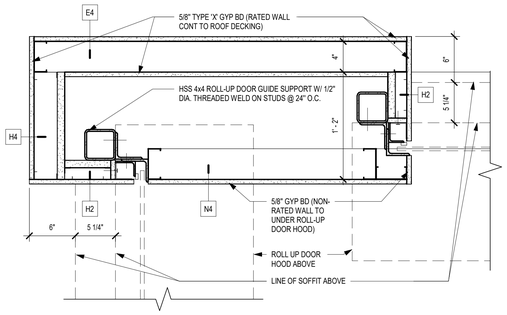
5 DOOR - OVERHEAD DOOR - JAMB @ CMU

3" = 1'-0"



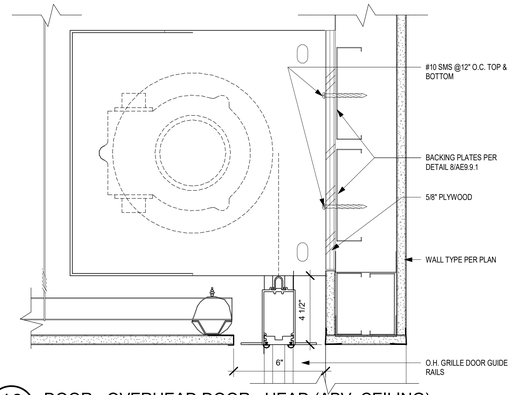
1 DOOR - OH - EXTERIOR DOOR HEAD PLASTER RETURN

3" = 1'-0"



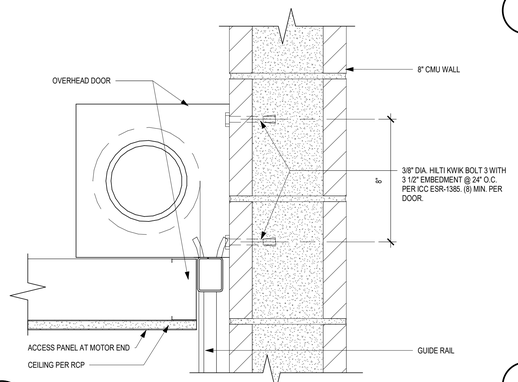
14 DOOR - OVERHEAD DOOR JAMB TYPE 2

1 1/2" = 1'-0"



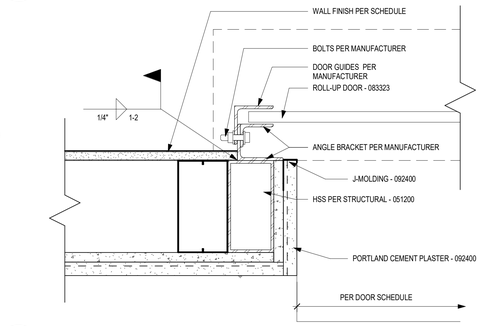
10 DOOR - OVERHEAD DOOR - HEAD (ABV. CEILING)

3" = 1'-0"



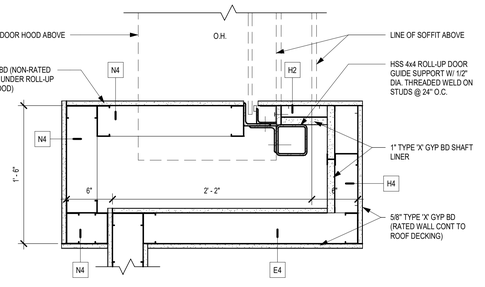
6 DOOR - OVERHEAD DOOR - HEAD @ CMU

3" = 1'-0"



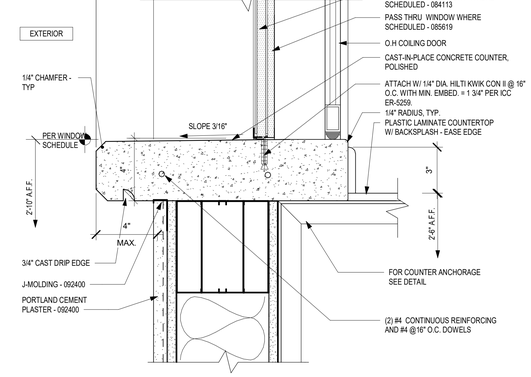
2 DOOR - OH - EXTERIOR DOOR JAMB PLASTER RETURN

3" = 1'-0"



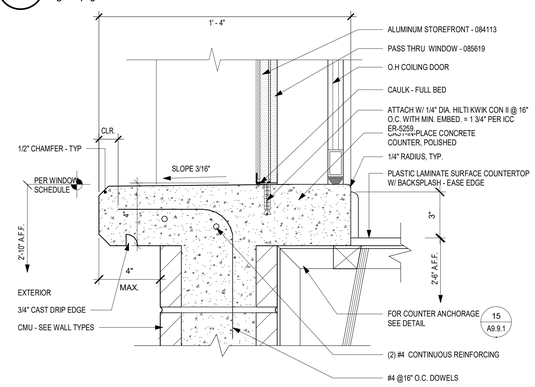
15 DOOR - OVERHEAD DOOR - JAMB (SINGLE)

1 1/2" = 1'-0"



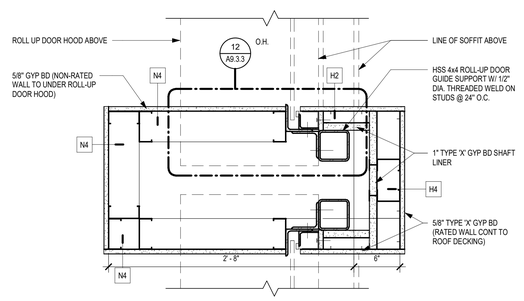
3 DOOR - OH - SILL @ COUNTER OF METAL STUD WALL

3" = 1'-0"



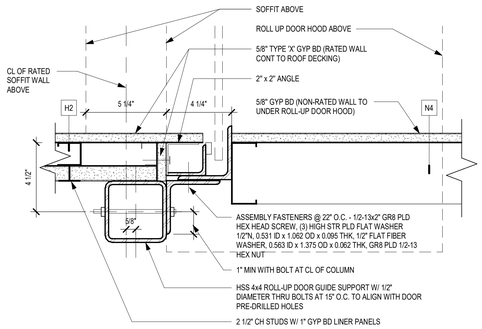
4 DOOR - OVERHEAD DOOR - SILL @ COUNTER OF CMU

3" = 1'-0"



16 DOOR - OVERHEAD DOOR - JAMB (DOUBLE)

1 1/2" = 1'-0"



12 DOOR - OVERHEAD DOOR - JAMB (ENLARGED)

A9.3.3 3" = 1'-0"

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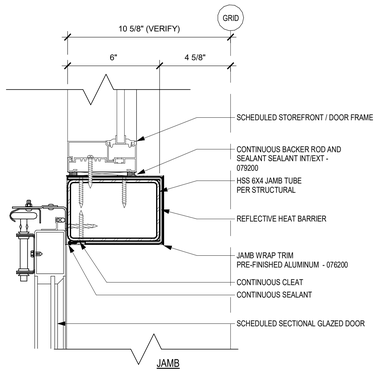
DOOR DETAILS - OH COILING

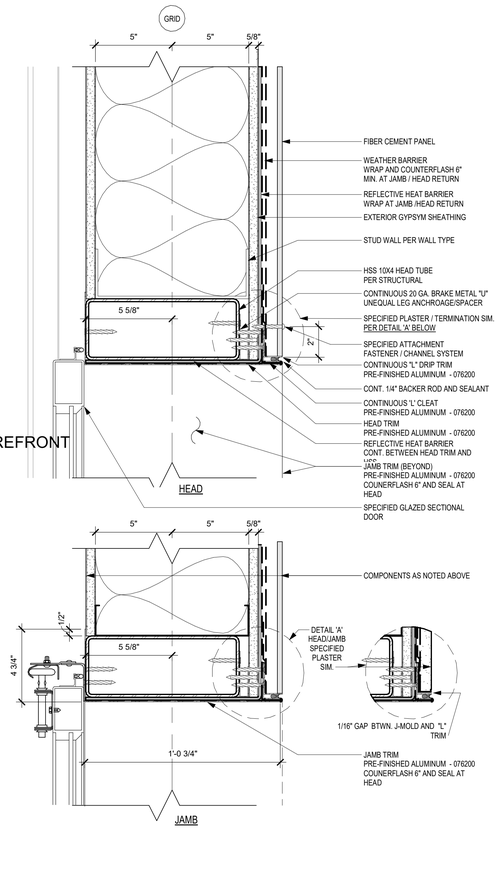
NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
A9.3.3

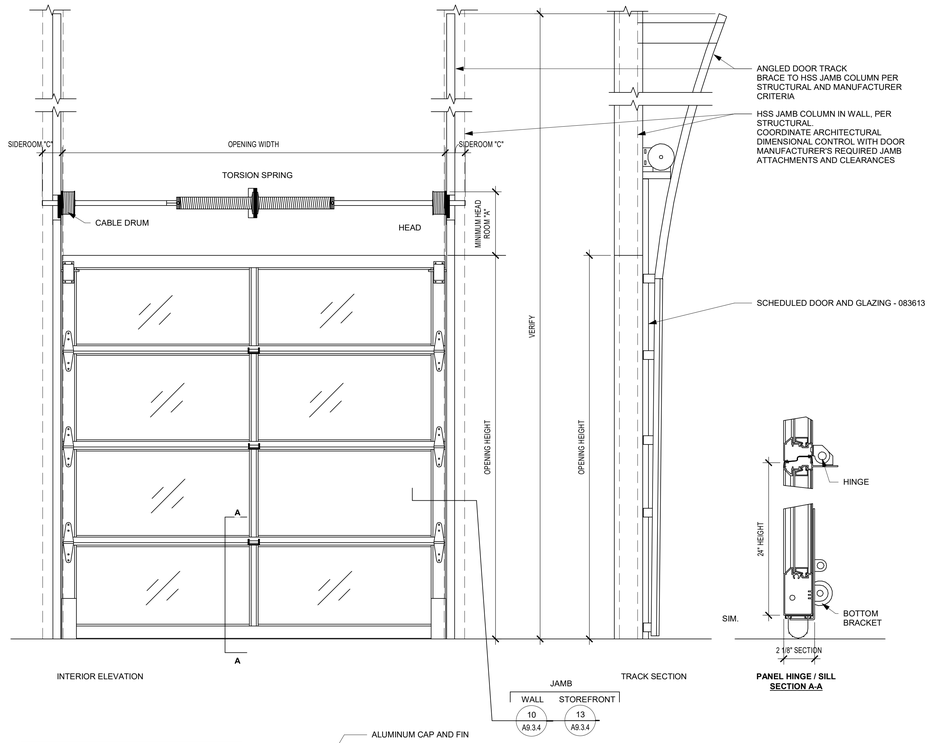
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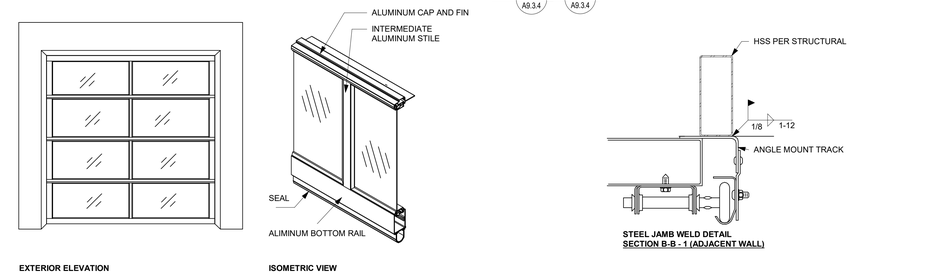




13 A9.3.4 DOOR - SECTIONAL GLASS DOOR - JAMB ADJACENT STOREFRONT

3" = 1'-0"



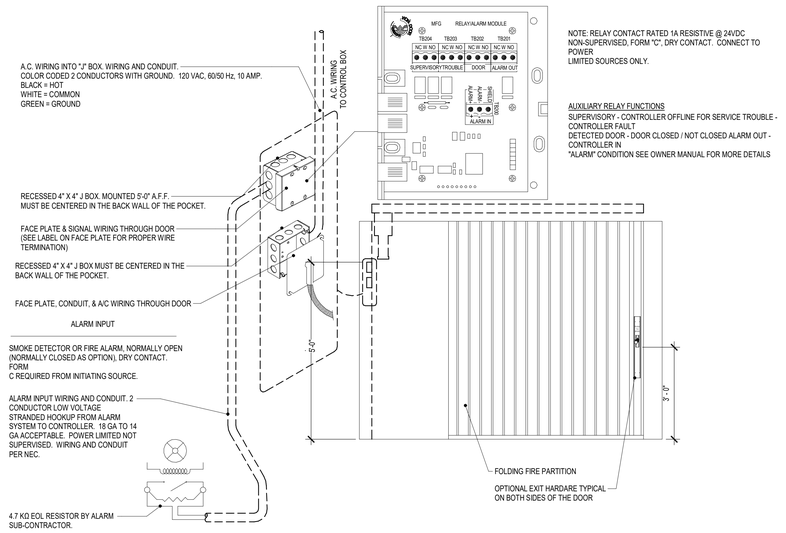


1 DOOR - SECTIONAL GLASS DOOR - EXTERIOR

1" = 1'-0"

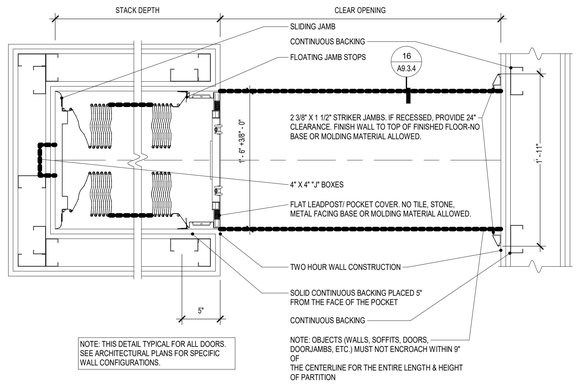
10 A9.3.4 DOOR - SECTIONAL GLASS DOOR - HEAD AND JAMB

3" = 1'-0"



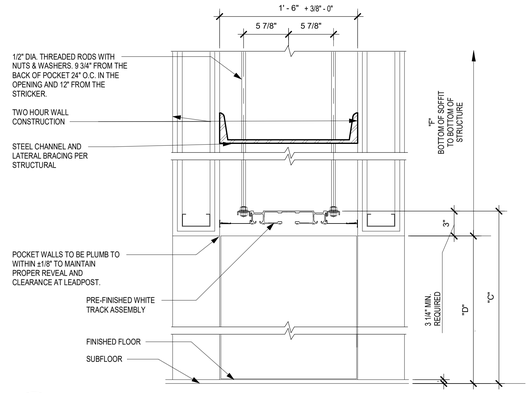
16 A9.3.4 DOOR - FIRE ELEVATION

1/2" = 1'-0"



8 DOOR - FIRE DOOR PLAN

1 1/2" = 1'-0"



4 DOOR - FIRE DOOR SECTION

1 1/2" = 1'-0"

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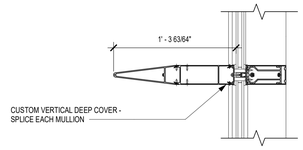
DOOR DETAILS - SECTIONAL/FIRE

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
A9.3.4

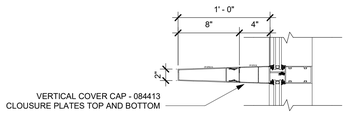
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2/24/2020 7:49:55 AM



DEFERRED APPROVAL

13 WIN - SUNSHADE AT GLAZING SYSTEM - VERT DEEP COVER

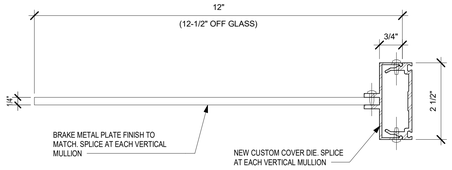
1 1/2" = 1'-0"



PLAN SECTION - SCHEDULED VERTICAL FIN

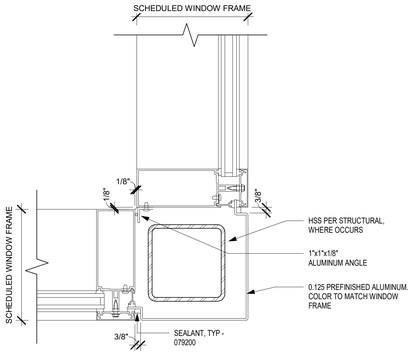
14 WIN - SUNSHADE AT GLAZING SYSTEM - VERTICAL

1 1/2" = 1'-0"



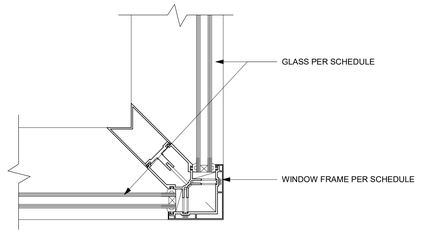
15 WIN - SUNSHADE VERTICAL BLADES

6" = 1'-0"



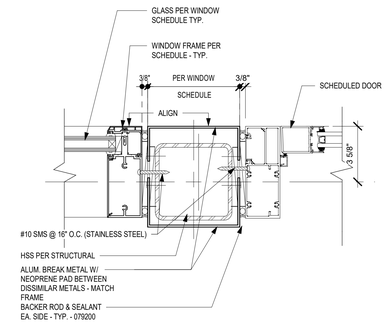
9 WIN - ALUM FRAME - CORNER

3" = 1'-0"



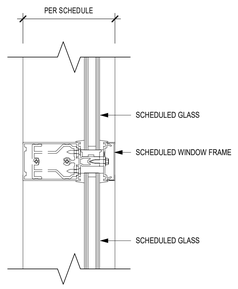
10 WIN - CORNER MULLION

3" = 1'-0"



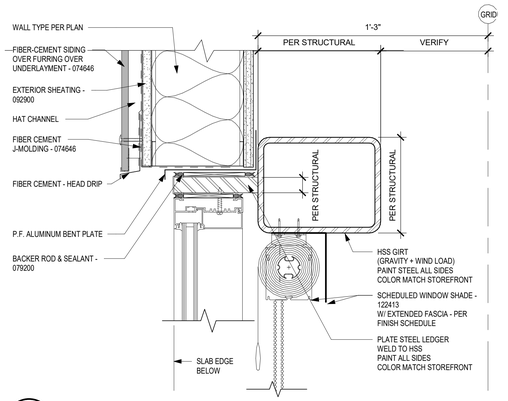
11 WIN - ALUM FRAME - JAMB @ COLUMN

3" = 1'-0"



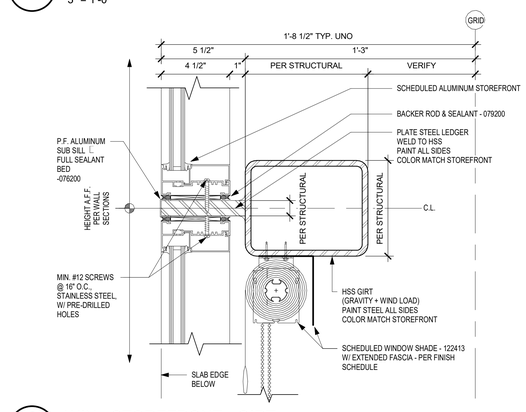
12 WIN - ALUM FRAME - MULLION (HORIZ/ VERT. SIM)

3" = 1'-0"



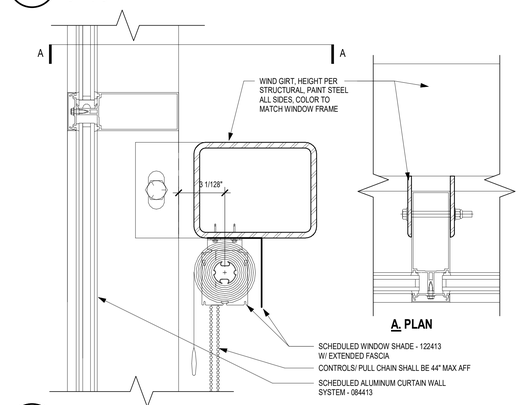
5 WIN - STOREFRONT - GIRT @ FIBER CEMENT

3" = 1'-0"



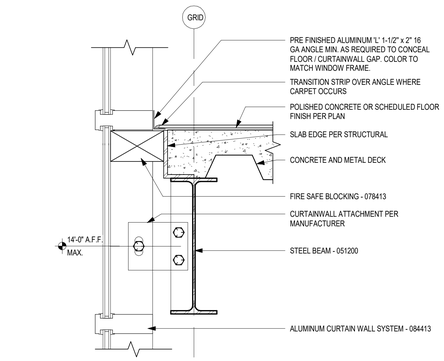
6 WIN - STOREFRONT - GIRT

3" = 1'-0"



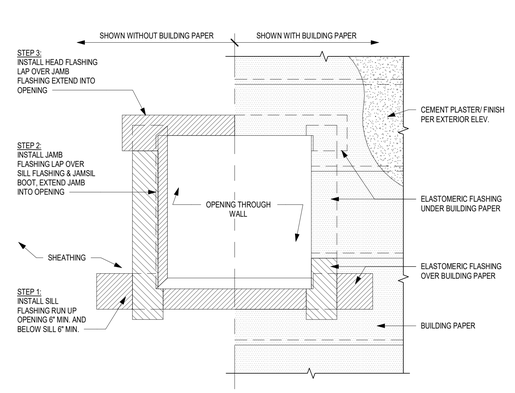
7 WIN - WINDOW SHADE @ GIRT

3" = 1'-0"



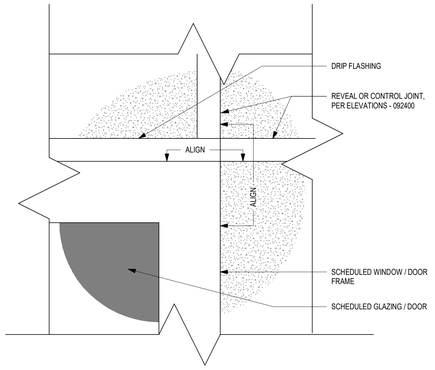
8 WIN - FLOOR / CURTAIN WALL CONNECTION

1 1/2" = 1'-0"



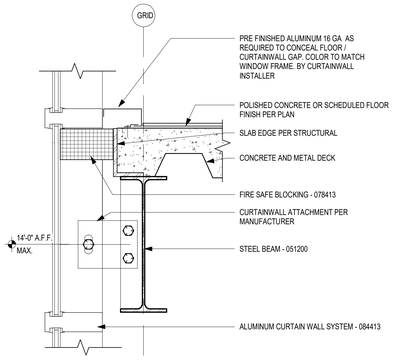
1 WIN - WEATHER PROTECTION OF ROUGH OPENING

NTS



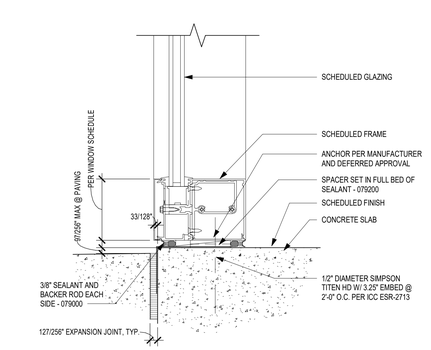
2 WIN - REVEAL CORNER DETAIL (ELEVATION)

6" = 1'-0"



3 WIN - WINDOW WALL CONNECTION @ FLOOR

1 1/2" = 1'-0"



4 WIN - ALUM FRAME - EXTERIOR SILL @ CONC.

3" = 1'-0"

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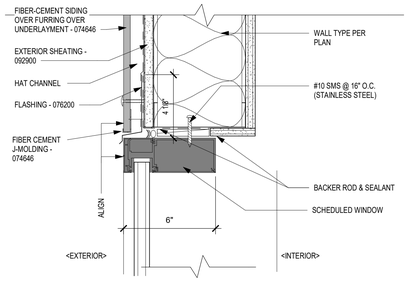
WINDOW DETAILS - EXTERIOR

NO. DATE ISSUE

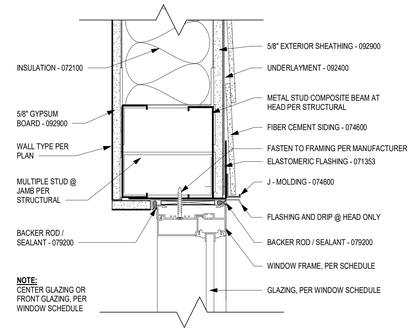
PROJECT NO: 19009
DATE: 02/28/2020

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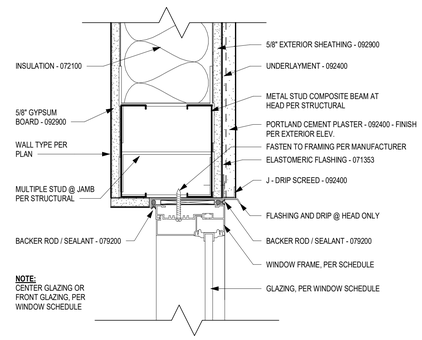
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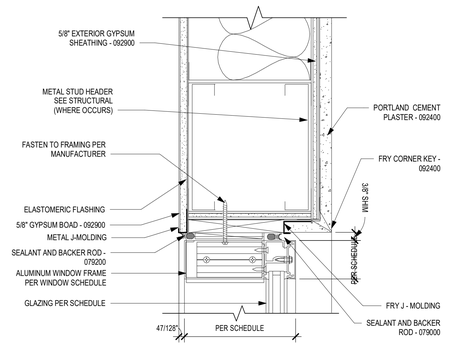
13 WIN - ALUM FRAME - EXTERIOR HEAD @ FIBER CEMENT (JAMB SIM)
3" = 1'-0"



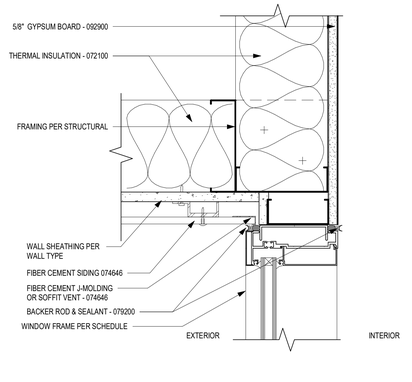
9 WIN - ALUM WINDOW - EXTERIOR HEAD @ SIDING (JAMB SIM.)
3" = 1'-0"



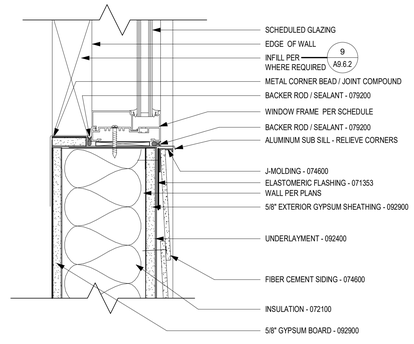
5 WIN - ALUM FRAME - EXTERIOR JAMB (HEAD SIM.)
3" = 1'-0"



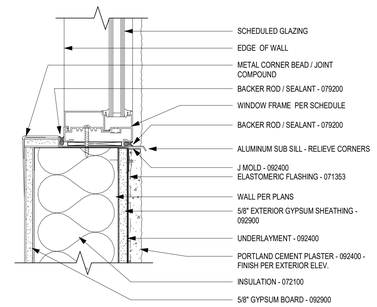
1 WIN - ALUM FRAME - EXTERIOR HEAD (JAMB SIM)
3" = 1'-0"



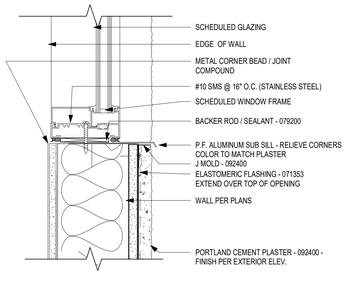
14 WIN - ALUM FRAME - EXTERIOR SILL @ FIBER CEMENT
3" = 1'-0"



10 WIN - ALUM FRAME - EXTERIOR SILL @ SIDING
3" = 1'-0"

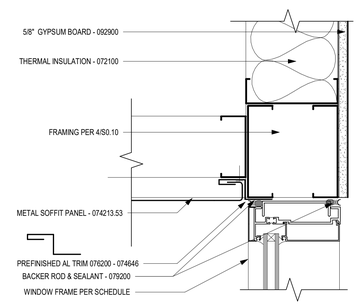


6 WIN - ALUM FRAME - EXTERIOR SILL @ PLASTER (OUT-SET)
3" = 1'-0"

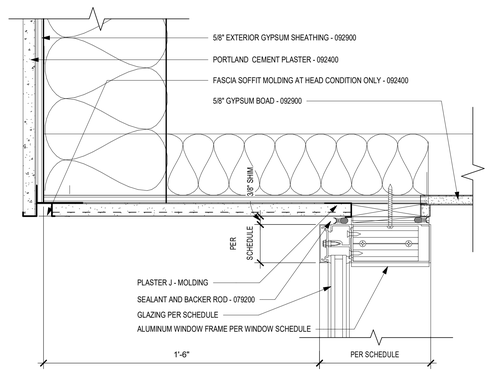


2 WIN - ALUM FRAME - EXTERIOR SILL @ PLASTER (INSET)
3" = 1'-0"

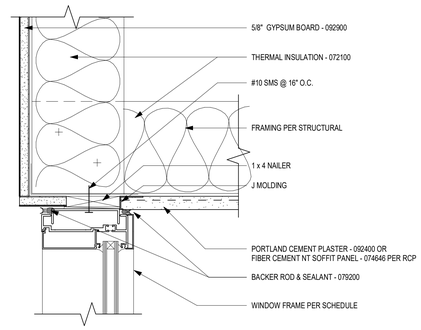
15 WIN - ALUM FRAME - JAMB @ FIBER CEMENT (HEAD SIM)
3" = 1'-0"



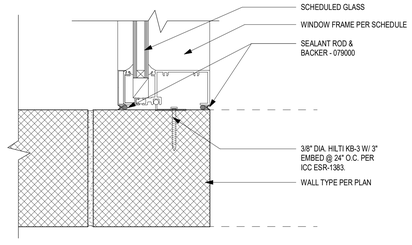
11 WIN - AJLUM FRAME - HEAD @ METAL SOFFIT
3" = 1'-0"



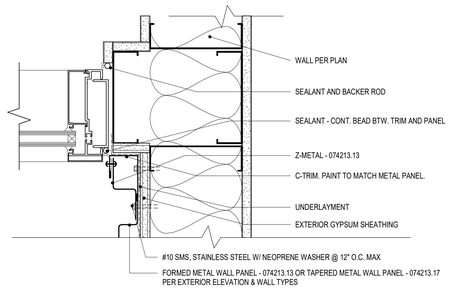
7 WIN - ALUM FRAME - HEAD @ PLASTER SOFFIT (JAMB SIM)
3" = 1'-0"



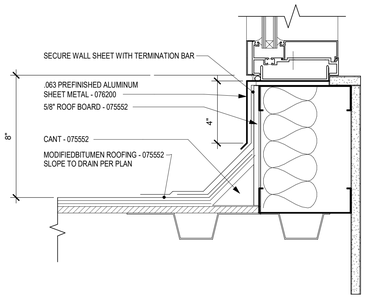
3 WIN - ALUM FRAME - JAMB @ PLASTER
3" = 1'-0"



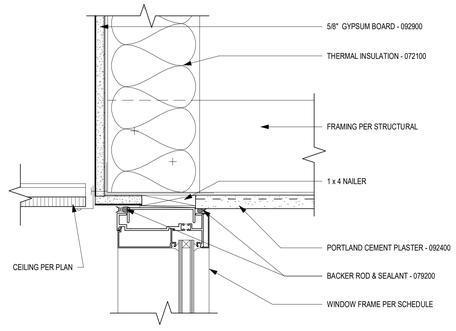
16 WIN - ALUM FRAME - JAMB @ CMU
3" = 1'-0"



12 WIN - ALUM FRAME - JAMB @ FORMED METAL WALL PANEL
3" = 1'-0"



8 WIN - SILL - ALUM FRAME WINDOW
3" = 1'-0"



4 WIN - ALUM FRAME - HEAD @ SOFFIT
3" = 1'-0"

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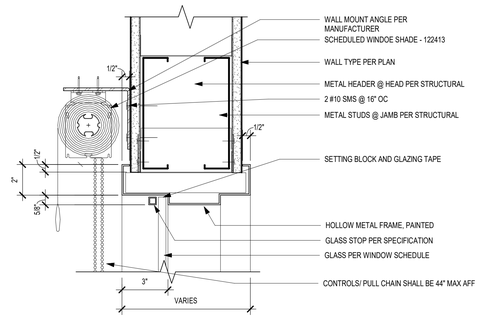
WINDOW DETAILS - EXTERIOR

NO. DATE ISSUE

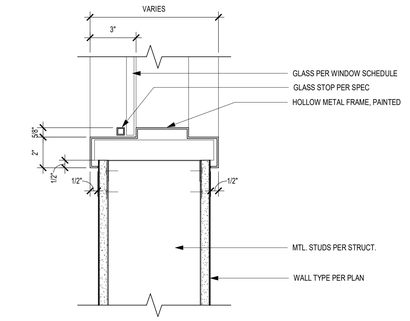
PROJECT NO: 19009
DATE: 02/28/2020

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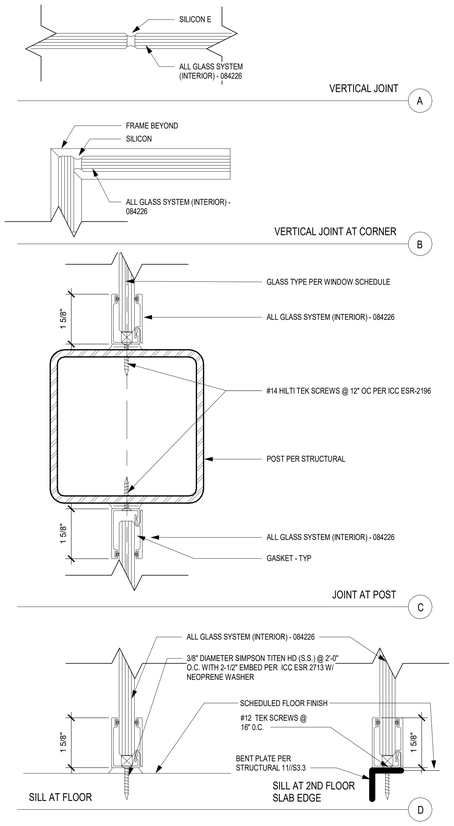
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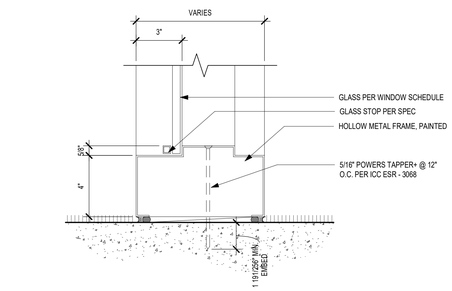
5 WIN - HM INT WINDOW HEAD (JAMB SIM) FRAME
3" = 1'-0"



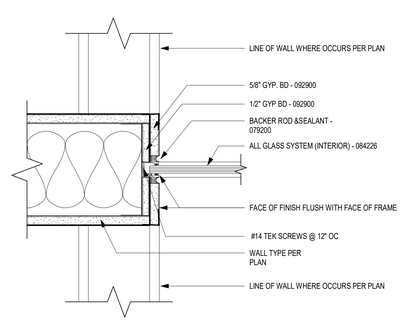
6 WIN - INT HM WINDOW - SILL
3" = 1'-0"



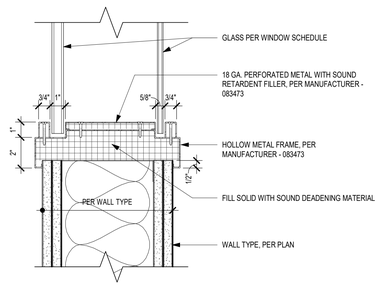
2 WIN - ALL GLASS SYSTEM - JOINT CONDITIONS
6" = 1'-0"



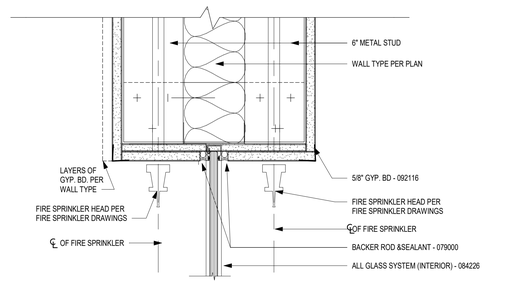
7 WIN - INT HM WINDOW - SILL @ FLOOR
3" = 1'-0"



3 WIN - ALL GLASS SYSTEM - HEAD / JAMB
3" = 1'-0"



8 WIN - ACOUSTICAL WINDOW - JAMB SILL HEAD
3" = 1'-0"



4 WIN - ALL GLASS SYSTEM - HEAD W/ FIRE SPRINKLERS
3" = 1'-0"

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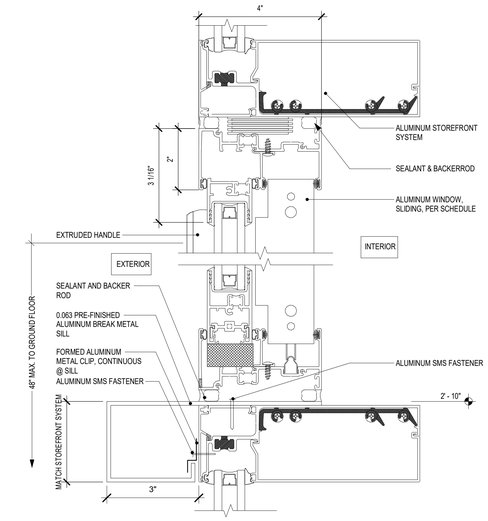
WINDOW DETAILS - INTERIOR

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

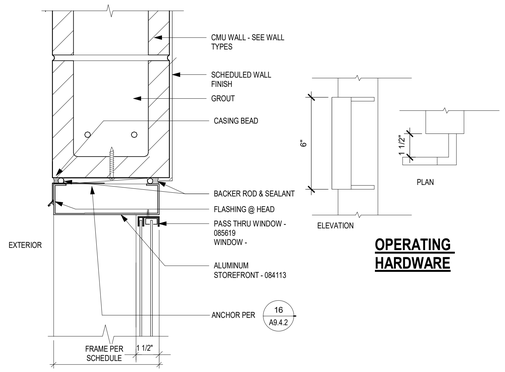
DRAWING
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5 WIN - SLIDING WINDOW STOREFRONT

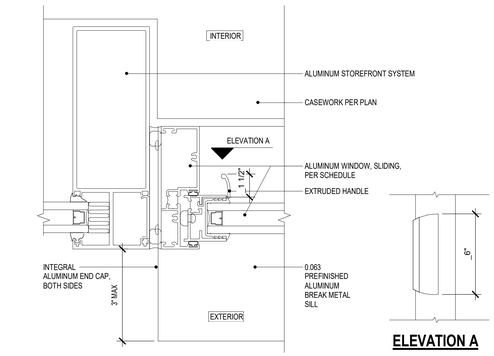
6" = 1'-0"



OPERATING HARDWARE

1 WIN - SERVICE WINDOW - HEAD (JAMB SIM)

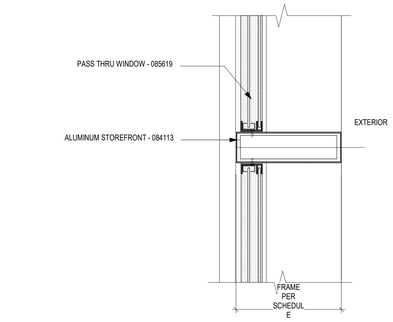
3" = 1'-0"



ELEVATION A

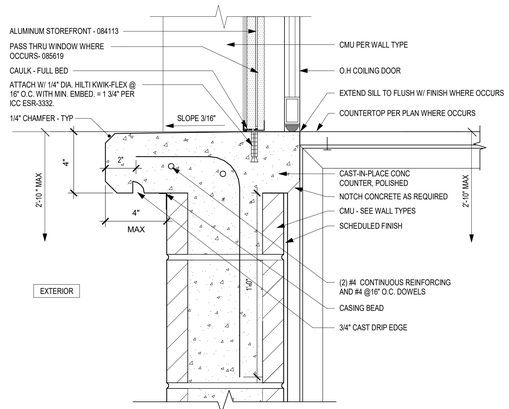
6 WIN - SLIDING WINDOW STOREFRONT JAMB

6" = 1'-0"



2 WIN - SERVICE WINDOW - JAMB @ CENTER MULLION

3" = 1'-0"



3 WIN - SERVICE WINDOW - SILL

3" = 1'-0"

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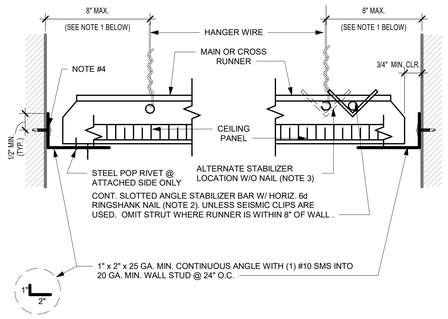
WINDOW DETAILS - SLIDING

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

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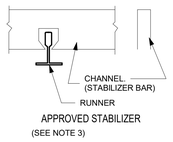
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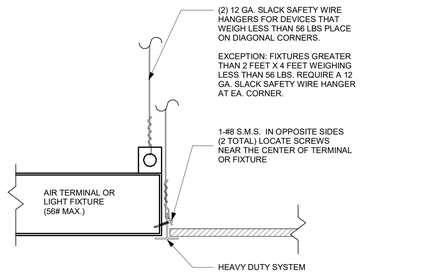
NOTES: ATTACHED JOINT

1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
2. NAILS AT ENDS OF HORIZONTAL STABILIZERS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT. STABILIZER BAR MAY BE SLOTTED APPROVED
3. ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.
4. (1) #10 SMS TO 20 GA. MIN. WALL STUD @ 24" O.C.

FREE JOINT

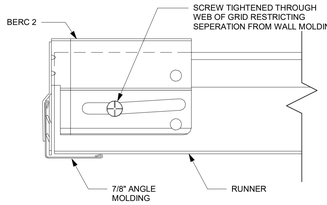


9 2.60_CEILING - CEILING PERIMETER1
3" = 1'-0"

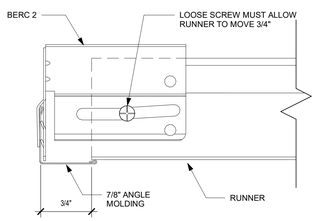


10 2.80_CEILING - SUSPENDED ACOUSTICAL CEILING - LIGHT FIXTURES/ AIR TERMINAL SUPPORT DETAIL
3" = 1'-0"

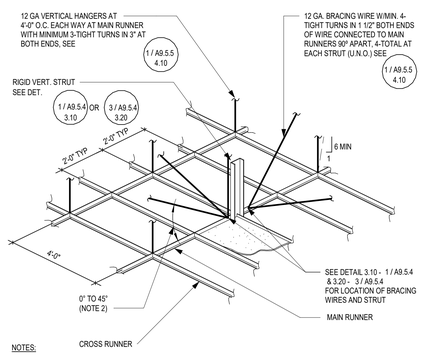
ATTACHED SIDE



UNATTACHED SIDE



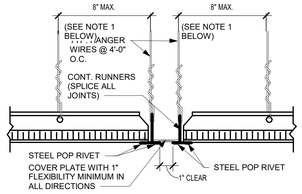
11 CEILING - ANGLE MOLDING AND BERC 2 EXPOSED TEE1
12" = 1'-0"



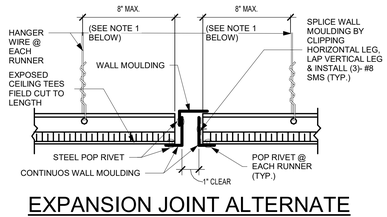
NOTES:

1. STRUTS SHALL NOT REPLACE HANGER WIRES.
2. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.

6 2.35_CEILING - SUSPENDED CEILING SUSPENSION AND BRACING ASSEMBLY
3" = 1'-0"



EXPANSION JOINT



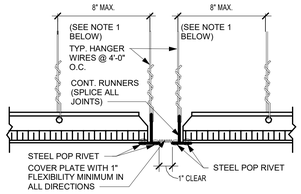
EXPANSION JOINT ALTERNATE

EXPANSION JOINTS AT THE INTERSECTION OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS AND LOBBIES OR OTHER SIMILAR AREAS

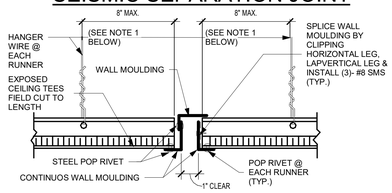
NOTES:

1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.

7 2.40_CEILING - SUSPENDED ACOUSTICAL CEILING - EXPANSION JOINT AT INTERSECTIONS
3" = 1'-0"



SEISMIC SEPARATION JOINT



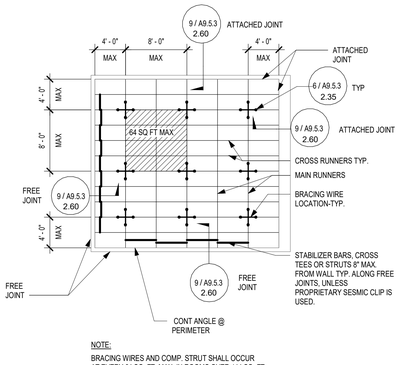
ALTERNATE SEISMIC SEPARATION JOINT

SEISMIC SEPARATION JOINT AT CONTINUOUS CEILING AREAS EXCEEDING 2500 SQ. FT.
SEE CEILING PLANS FOR LOCATION

NOTES:

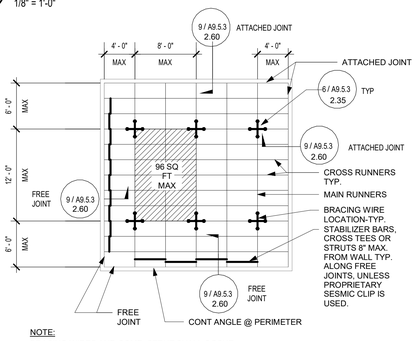
1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.

8 2.45_CEILING - SUSPENDED ACOUSTICAL CEILING - SEISMIC SEPARATION JOINT1
3" = 1'-0"



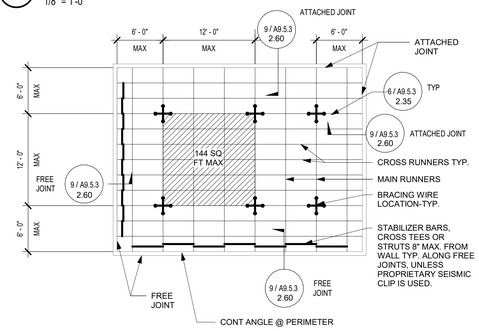
NOTE:
BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 64 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.

2 2.10_CEILING - TYPICAL CEILING PLAN FOR 8'-0" X 8'-0" BRACE ASSEMBLY SPACING
1/8" = 1'-0"



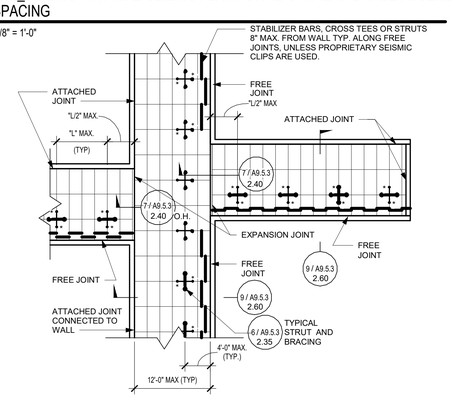
NOTE:
BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 96 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.

3 2.11_CEILING - TYPICAL CEILING PLAN FOR 8'-0" X 12'-0" BRACE ASSEMBLY SPACING
1/8" = 1'-0"



NOTE:
BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 144 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.

4 2.12_CEILING - TYPICAL CEILING PLAN FOR 12'-0" X 12'-0" BRACE ASSEMBLY SPACING
1/8" = 1'-0"



LOCATION OF EXPANSION/SLIP JOINTS IN CORRIDORS
NOTES:

1. "L"IS MAX. BRACE ASSEMBLY SPACING PER CEILING PLAN DETAIL, FOR EXAMPLE, WHERE 8' x 12' SPACING IS SPECIFIED, USE "L" = 8'.

5 2.30_CEILING - SUSPENDED ACOUSTICAL CEILING - CORRIDOR CEILING PLAN
3" = 1'-0"

GENERAL SUSPENDED ACOUSTICAL CEILING NOTES

FULL COMPLIANCE WITH IR 25-2.13 IS REQUIRED

1. CEILING SYSTEM GENERAL NOTES:
1.01 CEILING SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635-07 AND SECTION 5.1 OF ASTM E580-10A.

1.02 THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635-08.

1.03 CEILING SYSTEMS. THE FOLLOWING CEILING SYSTEM(S) IS/ARE PART OF THE SCOPE OF THIS PROJECT:

MANUFACTURER'S NAME ***ARMSTRONG WORLD INDUSTRIES, INC.***
PRODUCT EVALUATION REPORT TYPE AND NUMBER ***ICC ESR-1308.***
MANUFACTURER'S MODEL NUMBER - MAIN RUNNER ***PRELUDE XL 7301.***
MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER ***PRELUDE XL 7741.***

1.04 SEISMIC WALL CLIP:
MANUFACTURER'S MODEL ***BERC2.***

1.05 CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.

1.06 FOR CEILING INSTALLATIONS UTILIZING ACOUSTICAL TILE PANELS OF MINERAL OR GLASS FIBER, IT IS NOT MANDATORY TO PROVIDE ¼" CLEARANCE BETWEEN THE ACOUSTICAL TILE PANELS AND THE WALL ON THE SIDES OF THE CEILING WHICH ARE FREE TO SLIP. FOR ALL OTHER CEILING PANEL TYPES, PROVIDE ¼" CLEARANCE BETWEEN THE CEILING PANEL AND THE WALL ON THE SIDES OF THE CEILING FREE TO SLIP.

2. MATERIALS:
2.01 CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641-09A. WIRE SHALL BE #12 GAGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI.

2.02 GALVANIZED SHEET STEEL (INCLUDING THAT USED FOR METAL STUD AND TRACK COMPRESSION STRUTS/POST) SHALL CONFORM TO ASTM A653-11, OR OTHER EQUIVALENT SHEET STEEL LISTED IN SECTION A2.1 OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2007, INCLUDING SUPPLEMENT 2 DATED 2010 (AISI S100-07/S2-10). MATERIAL 43 MIL (18 GAGE) AND LIGHTER SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI. MATERIAL 54 MIL (16 GAGE) AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.

2.03 ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH (FY) OF 30 KSI AND MINIMUM ULTIMATE STRENGTH (FU) OF 48 KSI.

3. ATTACHMENT OF HANGER AND BRACING WIRES:
3.01 SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.

3.02 HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO: PIPING, DUCTWORK, CONDUIT AND EQUIPMENT.

3.03 HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES.

3.04 SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.

3.05 HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE. (E.G. BRACING WIRE CEILING CLIPS MUST BE BENT AS SHOWN IN THE DETAILS AND ROTATED AS REQUIRED TO ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, SCREW EYES IN WOOD MUST BE INSTALLED SO THEY ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, ETC.)

4. FASTENERS AND WELDING:
4.01 SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513-10, ASME B18.6.4-89 (R2005).
PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.

4.02 EXPANSION ANCHORS SHALL BE: HILTI KB-TZ (ICC EVALUATION REPORT NUMBER ESR-1917). SEE STRUCTURAL FOR LOAD CHART.

4.03 POWER-ACTUATED FASTENERS SHALL BE PER STRUCTURAL.

4.04 IF NOT OTHERWISE SPECIFIED IN THE EVALUATION REPORT, POWER-ACTUATED FASTENERS INSTALLED IN STEEL SHALL BE INSTALLED SO THE ENTIRE POINTED END OF THE FASTENER IS DRIVEN THROUGH THE STEEL MEMBER.
4.05 POWER-ACTUATED FASTENERS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.

4.06 CONCRETE REINFORCEMENT AND PRESTRESSING TENDONS SHALL BE LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO INSTALLING POST - INSTALLED ANCHOR.

4.07 WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES.

5. TESTING: ALL FIELD TESTING MUST BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.
5.01 POST-INSTALLED ANCHORS IN CONCRETE USED TO SUPPORT HANGER WIRES SHALL BE TESTED AT A FREQUENCY OF 10 PERCENT. POWER ACTUATED FASTENERS IN CONCRETE SHALL BE FIELD TESTED FOR 200 LBS. IN TENSION. ALL OTHER POST-INSTALLED ANCHORS IN CONCRETE SHALL BE TESTED IN ACCORDANCE WITH CBC SECTION 1913A.7.

5.02 POST-INSTALLED ANCHORS IN CONCRETE USED TO ATTACH BRACING WIRES SHALL BE TESTED AT A FREQUENCY OF 50 PERCENT IN ACCORDANCE WITH CBC SECTION 1913A.7.

6. LIGHT FIXTURES:
6.01 ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1.

6.02 SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.

6.03 LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.

6.04 LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.

6.05 LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE. EXCEPTION: ALL LIGHT FIXTURES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE AT EACH CORNER.

6.06 ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.

7. SERVICES WITHIN THE CEILING:
7.01 ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.

7.02 CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 LB. SHALL HAVE ONE (1) #12 GAGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.

7.03 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 LB. BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.

7.04 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS.

8. OTHER DEVICES WITHIN THE CEILING:
8.01 ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 LB. SHALL BE SUPPORTED INDEPENDENTLY FROM THE STRUCTURE ABOVE.

1 CEILING NOTES - SUSPENDED ACOUSTICAL CEILING
3" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT
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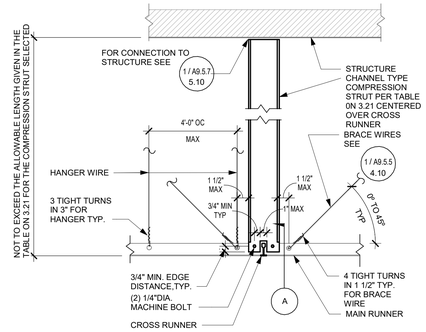
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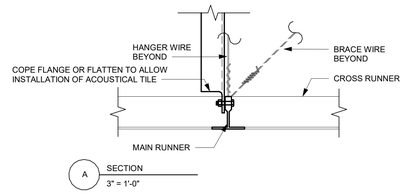
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DATE: 02/28/2020

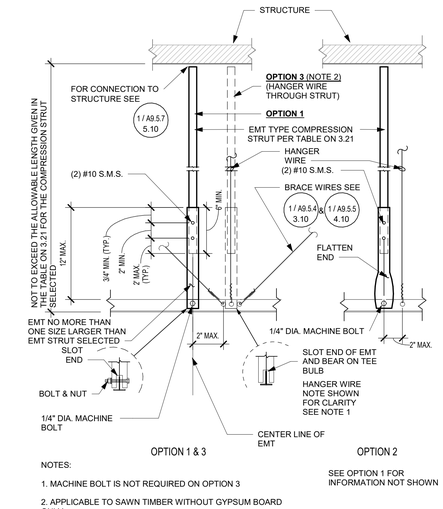
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2/4 SECTION
3.10_CEILING - SUSPENDED ACOUSTICAL CEILING - CHANNEL TYPE STRUT1
1 1/2" = 1'-0"



NOTES:

1. MACHINE BOLT IS NOT REQUIRED ON OPTION 3

2. APPLICABLE TO SAWN TIMBER WITHOUT GYPSUM BOARD ONLY.

3 3.20_CEILING - SUSPENDED ACOUSTICAL CEILING - EMT TYPE STRUT1
1 1/2" = 1'-0"

COMPRESSION STRUT TABLE

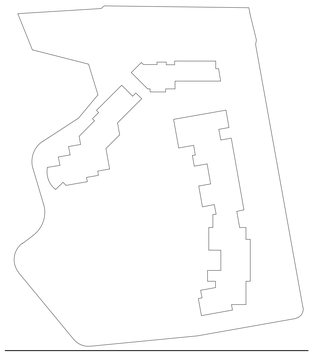
EMT COMPRESSION STRUT	MAXIMUM LENGTH
1/2" DIAMETER EMT (0.042" WALL THICKNESS)	4'-7"
3/4" DIAMETER EMT (0.049" WALL THICKNESS)	7'-5"
1" DIAMETER EMT (0.057" WALL THICKNESS)	9'-9"
1 1/4" DIAMETER EMT (0.065" WALL THICKNESS)	12'-9"
1 1/2" DIAMETER EMT (0.065" WALL THICKNESS)	14'-9"
2" DIAMETER EMT (0.065" WALL THICKNESS)	18'-10"

CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5'-0"
250S137-33	6'-10"
362S137-33	8'-0"
250137-43	8'10"
400S137-43	10'-10"

4 3.21_CEILING - COMPRESSION STRUT TABLE1
3" = 1'-0"

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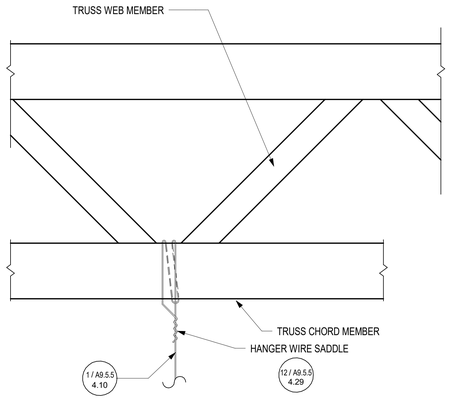
CEILING DETAILS - ACP

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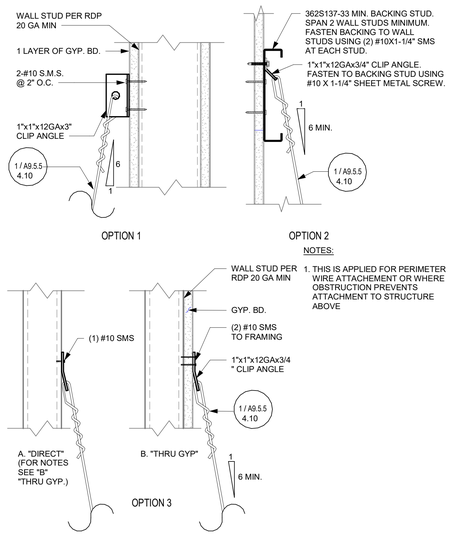
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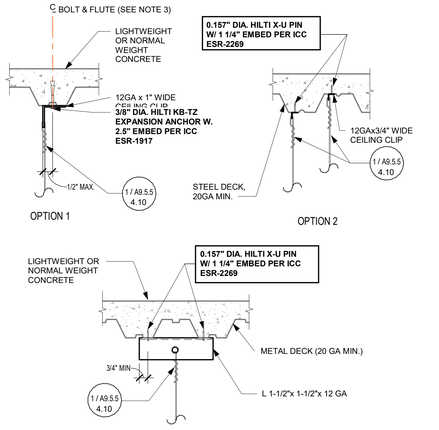
10 4.27_CEILING - HANGER WIRE CONNECTION TO WOOD CHORD TRUSS

1 1/2" = 1'-0"



7 4.24_CEILING - HANGER WIRE CONNECTION TO METAL STUD WALL1

3" = 1'-0"

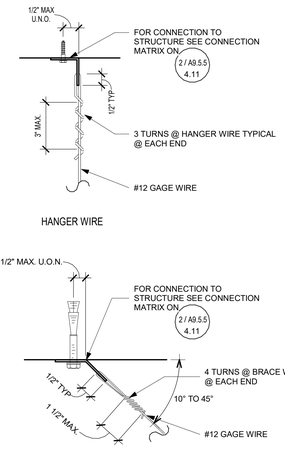


NOTES:

1. REFER TO 4.10 FOR ADDITIONAL DETAILS.
2. POST INSTALLED ANCHORS TO BE PLACED NO MORE THAN 1" OFFSET FROM CENTERLINE OF DECK LOW FLUTE
3. TEST POST INSTALLED ANCHORS IN ACCORDANCE WITH CEILING NOTE 5.01.

4 4.21_CEILING - HANGER WIRE CONNECTION TO CONCRETE OVER METAL DECK1

1 : 10

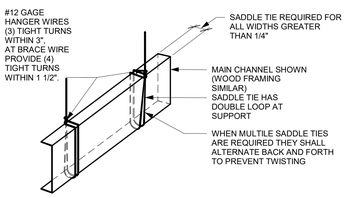


1 4.10_CEILING - HANGER AND BREACING WIRE CONNECTION - TYPICAL WIRE TURNS

3" = 1'-0"

11 4.28_CEILING - HANGER WIRE CONNECTION TO OPEN WEB STEEL JOIST1

1 1/2" = 1'-0"

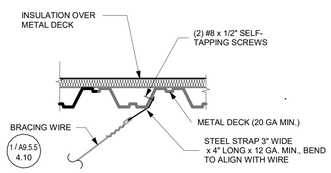


TYPICAL SADDLE TIE DETAIL

HANGER WIRE CONDITION SHOWN. BRACE WIRE CONDITION SIMILAR

12 4.29_CEILING - TYPICAL SADDLE TIE DETAIL1

NTS



NOTES:

1. IF SELF-TAPPING SCREWS ARE USED WITH CONCRETE FILL, SET SCREWS BEFORE PLACING CONCRETE.

13 4.30_CEILING - BRACING WIRE CONNECTION AT METAL DECK1

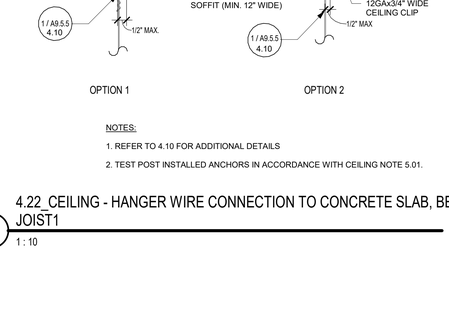
1 : 10

NOTE:

(1) WHEN FIRE RATED GYP. BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES W/ SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP. BOARD AND MEET MIN. PENETRATION.

8 4.25_CEILING - HANGER WIRE CONNECTION TO SAWN TIMBER

1 1/2" = 1'-0"



NOTES:

1. REFER TO 4.10 FOR ADDITIONAL DETAILS
2. TEST POST INSTALLED ANCHORS IN ACCORDANCE WITH CEILING NOTE 5.01.

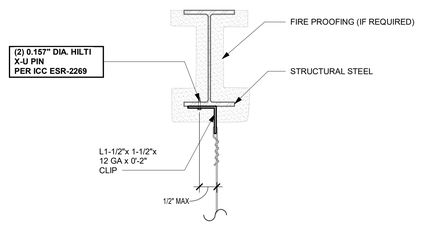
5 4.22_CEILING - HANGER WIRE CONNECTION TO CONCRETE SLAB, BEAM, OR JOIST1

1 : 10

STRUCTURAL CONDITION OF FLOOR/ ROOF ABOVE SUSPENDED CEILING	APPLICABLE HANGER WIRE DETAIL		APPLICABLE BRACING WIRE DETAIL	
METAL DECK	4.20	3 / A9.5.5	4.30	13 / A9.5.5
CONCRETE OVER METAL DECK	4.21	4 / A9.5.5	4.31	1 / A9.5.6
CONCRETE SLAB, BEAM, OR JOIST	4.22	5 / A9.5.5	4.32	2 / A9.5.6
STRUCTURAL STEEL	4.23	6 / A9.5.5	4.33	3 / A9.5.6
METAL STUD WALL	4.24	7 / A9.5.5	4.34	4 / A9.5.6
SAWN TIMBER	4.25, 4.29	8 / A9.5.5 12 / A9.5.5	4.35	5 / A9.5.6
WOOD I JOIST	4.26	9 / A9.5.5	4.36, 4.37	7 / A9.5.6 9 / A9.5.6
WOOD CHORD TRUSS	4.27, 4.29	10 / A9.5.5 12 / A9.5.5	4.38, 4.29	10 / A9.5.6 12 / A9.5.5
OPEN WEB STEEL JOIST	4.28, 4.29	11 / A9.5.5 12 / A9.5.5	4.39, 4.29	11 / A9.5.6 12 / A9.5.5

2 4.11_CEILING - HANGER AND BRACING WIRE CONNECTION MATRIX1

3" = 1'-0"

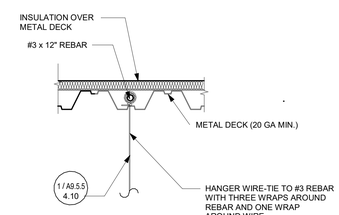


NOTES :

1. BEAM FLANGE THICKNESS SHALL NOT BE LESS THAN 3/16".
2. RDP IN RESPONSIBLE CHARGE, IOR AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER. SEE ANSI/AISC 341-10
3. REFER TO 4.10/ A9.5.5 FOR ADDITIONAL DETAILS

6 4.23_CEILING - HANGER WIRE CONNECTION TO STRUCTURAL STEEL1

1 1/2" = 1'-0"



NOTES:

1. REFER TO 4.10/ A9.5.5 FOR ADDITIONAL DETAILS.

3 4.20_CEILING - HANGER WIRE CONNECTION TO METAL DECK1

1 : 10

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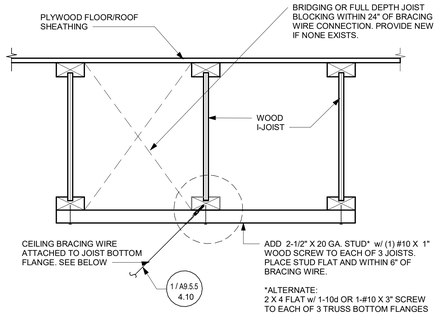
CEILING DETAILS - ACP

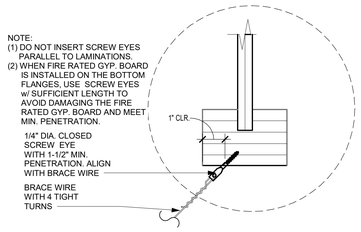
NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
A9.5.5

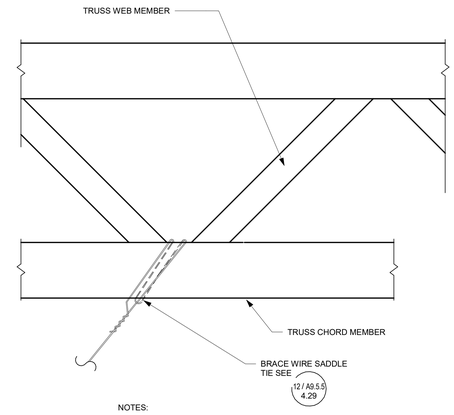
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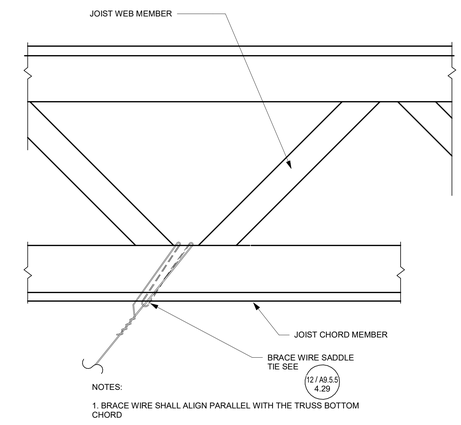


8 4.37_CEILING - BRACE WIRE CONNECTION TO WOOD I - JOIST ENLARGED
1 1/2" = 1'-0"

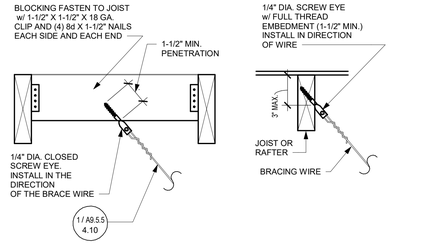
9 4.37A_CEILING - BRACE WIRE CONNECTION TO WOOD I - JOIST
1/2" = 1'-0"

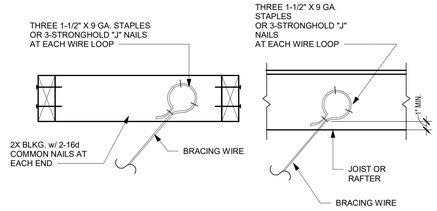


10 4.38_CEILING - BRACE WIRE CONNECTION TO WOOD CHORD TRUSS
1 1/2" = 1'-0"

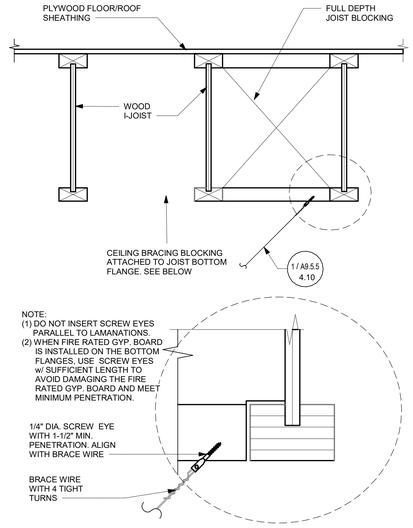


11 4.39_CEILING - BRACE WIRE CONNECTION TO OPEN-WEB STEEL JOIST
1 1/2" = 1'-0"



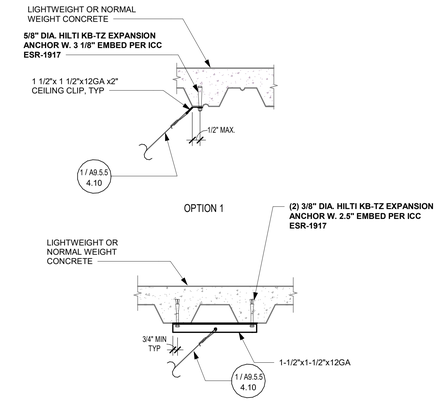


5 4.35_CEILING - BRACING WIRE CONNECTION TO SAWN TIMBER
1 1/2" = 1'-0"



6 4.36_BRACE WIRE CONNECTION TO WOOD I - JOIST - ENLARGED
1 1/2" = 1'-0"

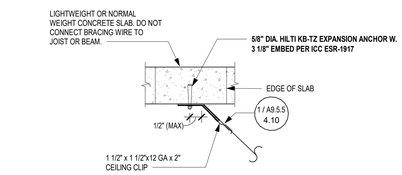
7 4.36_BRACE WIRE CONNECTION TO WOOD I - JOIST
1/2" = 1'-0"



NOTES:

1. TEST POST INSTALLED ANCHORS IN ACCORDANCE WITH CEILING NOTE 5.02
2. REFER TO 4.10 1 / A9.5.5 FOR ADDITIONAL DETAILS
3. POST INSTALLED ANCHORS TO BE PLACED NO MORE THAN 1" OFFSET FROM CENTERLINE OF DECK LOW FLUTE.

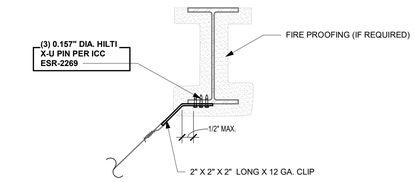
1 4.31_CEILING - BRACING WIRE CONNECTION TO CONCRETE OVER METAL DECK
1 : 10



NOTES:

1. TEST POST INSTALLED ANCHORS IN ACCORDANCE WITH CEILING NOTE 5.02
2. REFER TO 4.10 1 / A9.5.5 FOR ADDITIONAL DETAILS

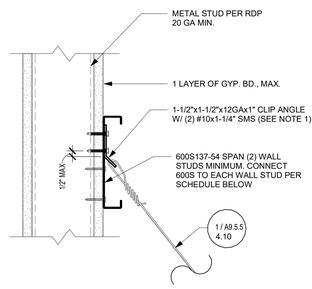
2 4.32_CEILING - BRACING WIRE CONNECTION TO CONCRETE SLAB, BEAM OR JOIST
1 : 10



NOTES :

1. BEAM FLANGE THICKNESS SHALL NOT BE LESS THAN 3/16".
2. RDP IN RESPONSIBLE CHARGE, IOR, AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER. SEE ANSI/AISC 341-10
3. REFER TO 4.10 1 / A9.5.5 FOR ADDITIONAL DETAILS

3 4.33_CEILING - BRACING WIRE CONNECTION TO STRUCTURAL STEEL1
1 1/2" = 1'-0"



4 4.34_CEILING - BRACING WIRE CONNECTION TO METAL STUD WALL1
3" = 1'-0"

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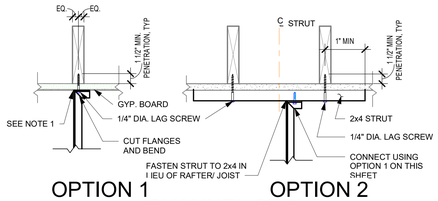
CEILING DETAILS - ACP

NO. DATE ISSUE

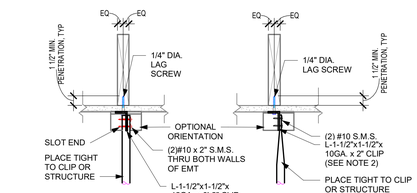
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DATE: 02/28/2020

DRAWING
A9.5.6

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CHANNEL STRUT



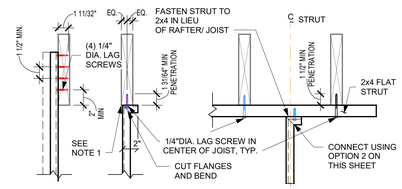
TUBE STRUT

NOTES:

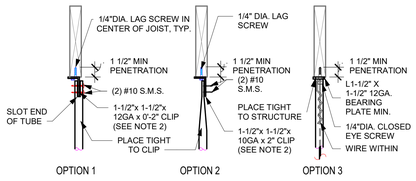
1. WEB OF CHANNEL TO BEAR WITHIN WIDTH OF THE WOOD MEMBER.
2. FOR ANGLE ORIENTED IN THE STANDARD POSITION, VERTICAL LEG TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER.

7 5.50_CEILING - STRUT CONNECTION TO SAWN TIMBER WITH GYPSUM BOARD

1 1/2" = 1'-0"



CHANNEL STRUT



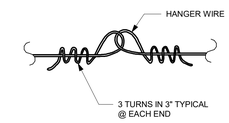
TUBE STRUT

NOTES:

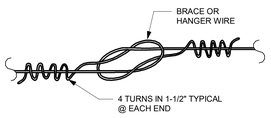
1. WEB OF CHANNEL TO BEAR WITHIN WIDTH OF WOOD MEMBER.
2. VERTICAL LEG OF MEMBER TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER.
3. SEE 5.50 7 / A9.5.7 FOR ADDITIONAL INFORMATION.

8 5.60_CEILING - STRUT CONNECTION TO SAWN TIMBER WITHOUT GYPSUM BOARD

1 1/2" = 1'-0"



HANGER WIRE ONLY



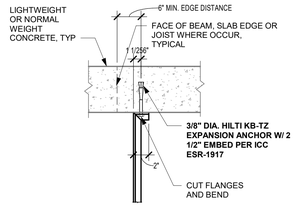
HANGER OR BRACE WIRE

NOTES:

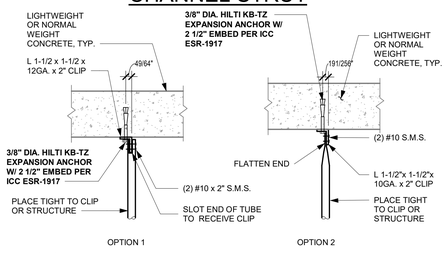
WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.

9 6.10_CEILING - CEILING WIRE SPLICES1

3" = 1'-0"



CHANNEL STRUT

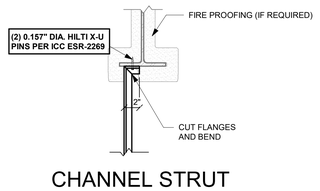


NOTES:
1. TEST POST INSTALLED ANCHORS IN ACCORDANCE WITH CEILING NOTE 5.01

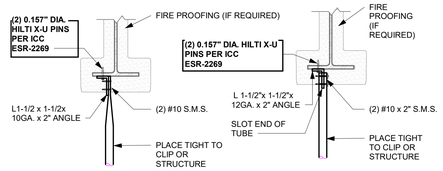
TUBE STRUT

4 5.30_CEILING - STRUT CONNECTION TO CONCRETE SLAB, BEAM, JOIST SOFFIT1

1 1/2" = 1'-0"



CHANNEL STRUT



TUBE STRUT

NOTES:

1. STRUCTURAL STEEL MEMBER SHALL NOT BE LESS THAN 3/16".
2. RDP IN RESPONSIBLE CHARGE, I.O.R. AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE ANSI/AISC 341-10.
3. REFER TO 5.20 2 / A9.5.7 AND 5.30 4 / A9.5.7 FOR ADDITIONAL INFORMATION.

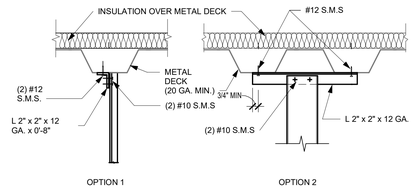
5 5.40_CEILING - STRUT CONNECTION TO STRUCTURAL STEEL1

1 1/2" = 1'-0"

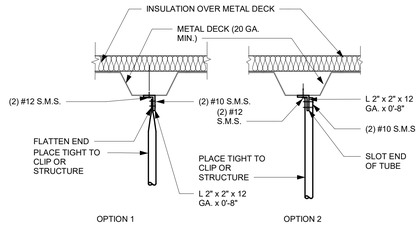
STRUCTURAL CONDITION OF FLOOR / ROOF ABOVE COMPRESSION STRUT	APPLICABLE DETAIL	
METAL DECK	5.20	2 / A9.5.7
CONCRETE OVER METAL DECK	5.21	3 / A9.5.7
CONCRETE SLAB, BEAM, OR JOIST	5.30	4 / A9.5.7
STRUCTURAL STEEL	5.40	5 / A9.5.7
SAWN TIMBER WITH GYPSUM BOARD	5.50	7 / A9.5.7
SAWN TIMBER WITHOUT GYPSUM BOARD	5.60	8 / A9.5.7

1 5.10_CEILING - COMPRESSION STRUT CONNECTION TO STRUCTURE - CONNECTION MATRIX1

3" = 1'-0"



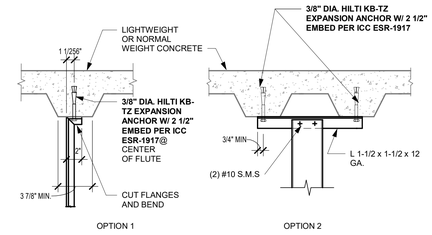
CHANNEL STRUT

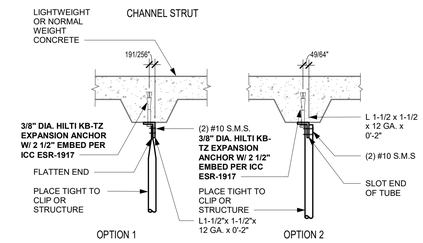


TUBE STRUT

2 5.20_CEILING - STRUT CONNECTION TO METAL DECK1

1 1/2" = 1'-0"





NOTES:
1. POST INSTALLED ANCHORS TO BE PLACED NO MORE THAN 1" OFFSET FROM CENTERLINE OF DECK LOW FLUTE
2. TEST POST INSTALLED ANCHORS IN ACCORDACE WITH CEILING NOTE 5.01

TUBE STRUT

3 5.21_CEILING - STRUT CONNECTION TO CONCRETE OVER METAL DECK1

1 1/2" = 1'-0"

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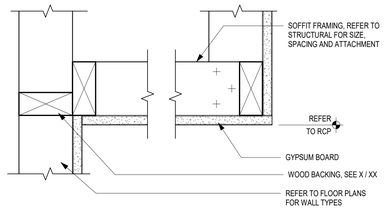
CEILING DETAILS - ACP

NO. DATE ISSUE

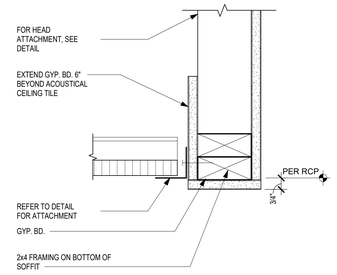
PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
A9.5.7

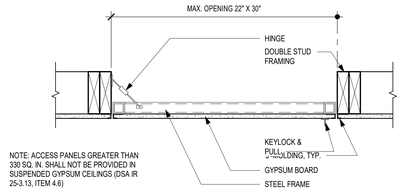
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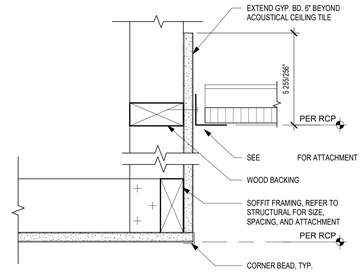
5 GYPSUM BOARD SOFFIT
3" = 1'-0"



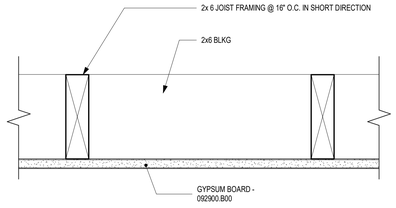
1 GYP SOFFIT TO ACP
3" = 1'-0"



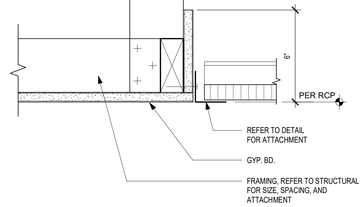
6 HORIZONTAL ACCESS PANEL
1 1/2" = 1'-0"



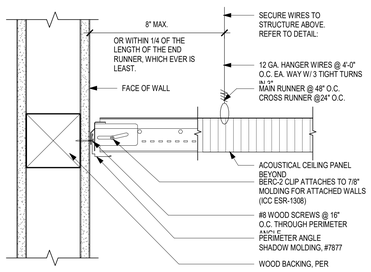
2 GYP TO ACOUSTICAL TILE TRANSITION
3" = 1'-0"



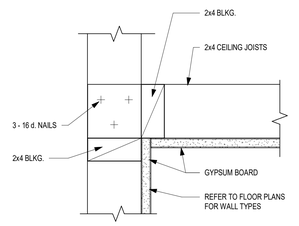
7 INTERIOR CEILINGS - LESS THAN 10' JOIST SPAN
3" = 1'-0"



3 GYP TO ACP
3" = 1'-0"



8 PERIMETER STARTER WALL
3" = 1'-0"



4 GYPSUM BOARD CEILING
3" = 1'-0"

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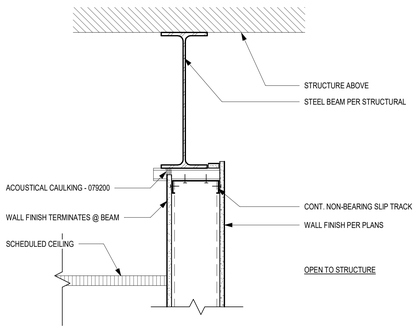
CEILING DETAILS - WD FRAMED

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

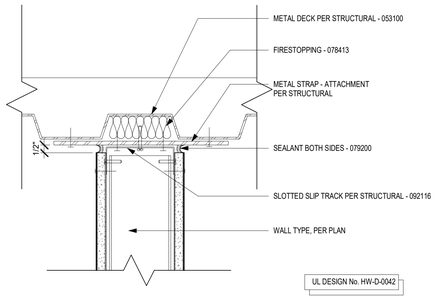
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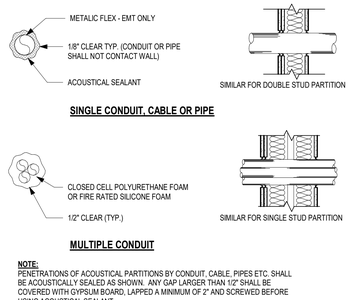
13 ACOUSTIC COND. @ WALL/BEAM CONNECTION - 1

1 1/2" = 1'-0"



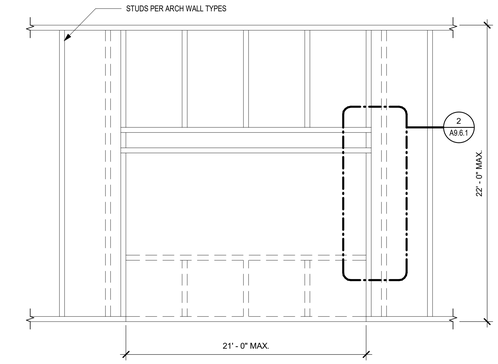
9 ATTACHMENT PARALLEL TO DECK

3" = 1'-0"



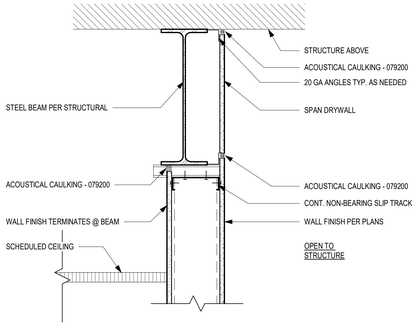
5 PARTITION PENETRATION DETAILS

1" = 1'-0"



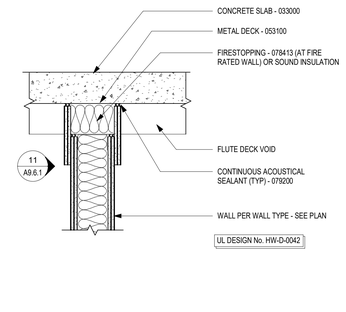
1 INT - INTERIOR METAL STUD WALL OPENING

1/2" = 1'-0"



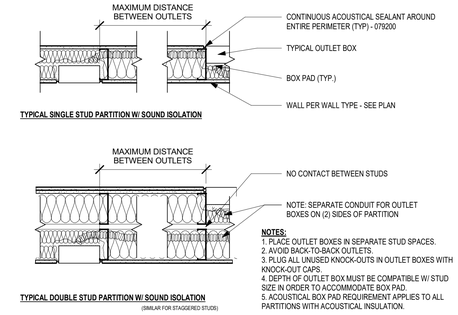
14 ACOUSTIC COND. @ WALL/BEAM CONNECTION - 2

1 1/2" = 1'-0"



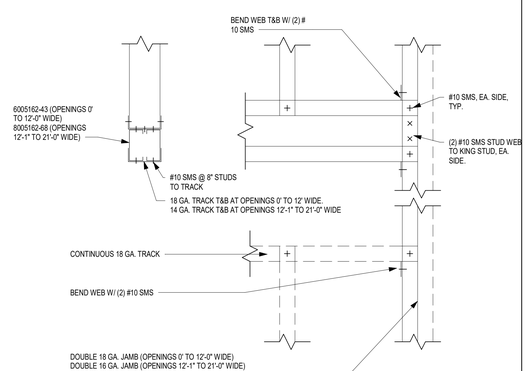
10 SECTION @ METAL DECK

1" = 1'-0"



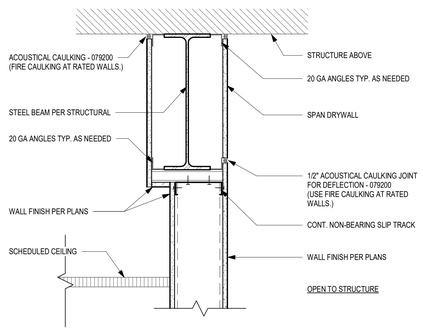
6 OUTLET BOX DETAILS

1" = 1'-0"



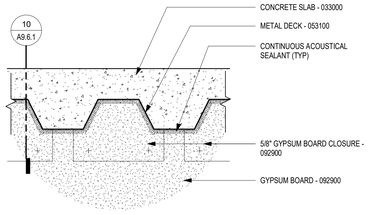
2 INT - INTERIOR METAL STUD WALL OPENING DETAIL

1 1/2" = 1'-0"



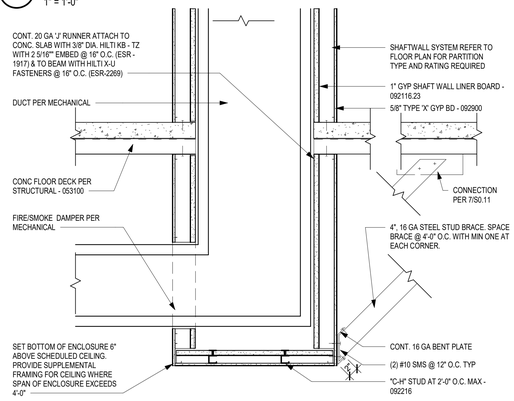
15 ACOUSTIC COND. @ WALL/BEAM CONNECTION - 3

1 1/2" = 1'-0"



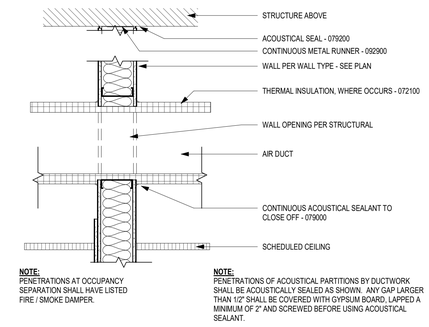
11 INT - ELEVATION @ METAL DECK

1" = 1'-0"



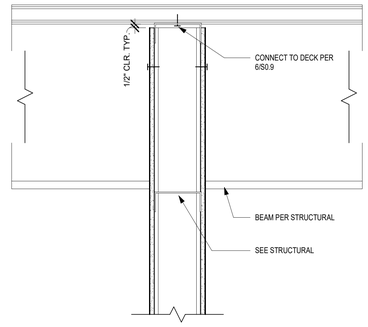
12 INT - SHAFTWALL SECTION DETAIL

1" = 1'-0"



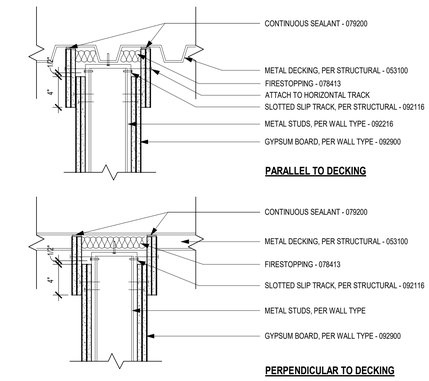
7 DUCT PENETRATION AC PARTITION

1" = 1'-0"



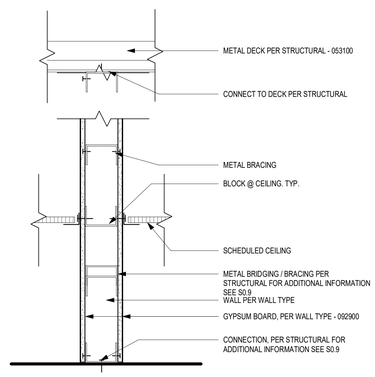
3 TYP. WALL CONN. @ ROOF OR FLOOR DECK/ACROSS BEAM

1 1/2" = 1'-0"



8 FIRE SAFING DETAIL

1 1/2" = 1'-0"



4 METAL STUD BRACING, BLOCKING & BRIDGING

1 1/2" = 1'-0"

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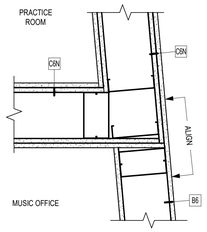
INTERIOR DETAILS

NO. DATE ISSUE

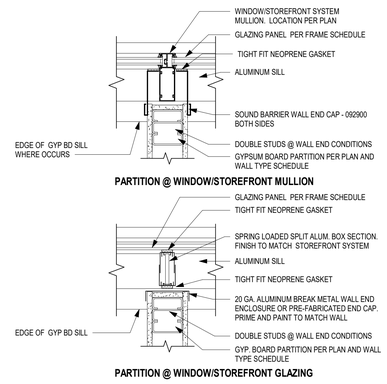
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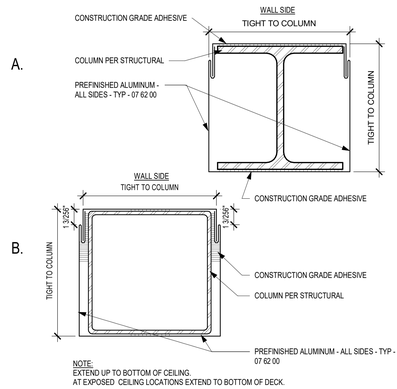
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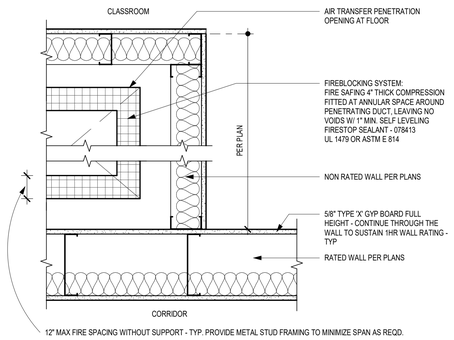
13 INT - SOUND WALL INTERSECTION
1 1/2" = 1'-0"



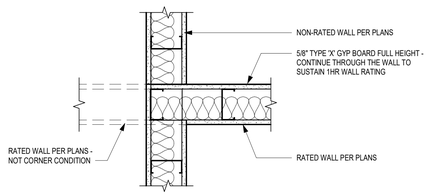
9 INT - PARTITION @ STOREFRONT
1 1/2" = 1'-0"



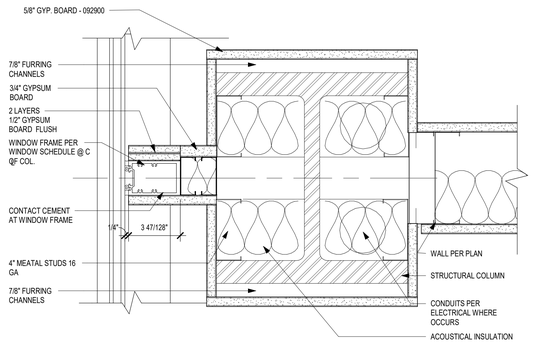
5 INT - COLUMN WRAP
3" = 1'-0"



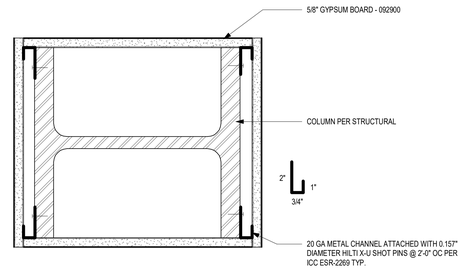
1 INT - AIR TRANSFER PENETRATION AT FLOOR
1 1/2" = 1'-0"



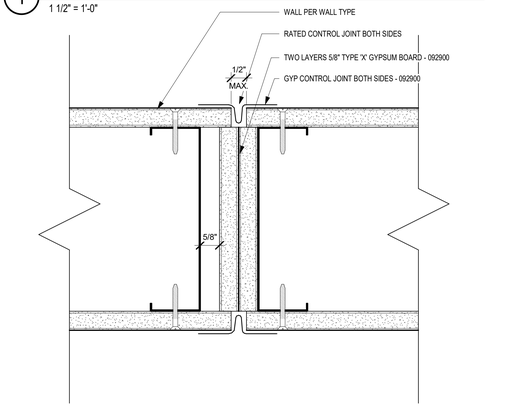
14 INT - 1HR WALL @ CORNER
1 1/2" = 1'-0"



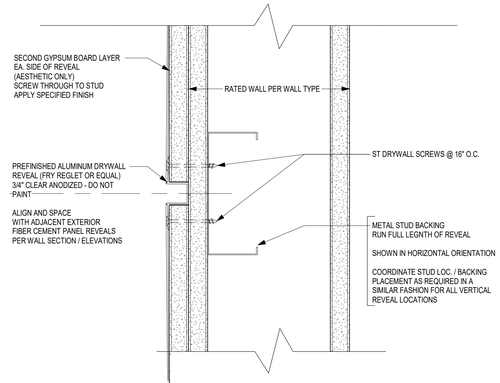
10 INT - GLAZING DETAIL @ PARTITION / COLUMN
3" = 1'-0"



6 INT - GYPSUM BOARD COLUMN WRAP
3" = 1'-0"



2 INT - FIRE RATED CONTROL JOINT - 1HR FIRE RATED
6" = 1'-0"



3 INT - TYPICAL DOUBLE DRYWALL REVEAL
6" = 1'-0"

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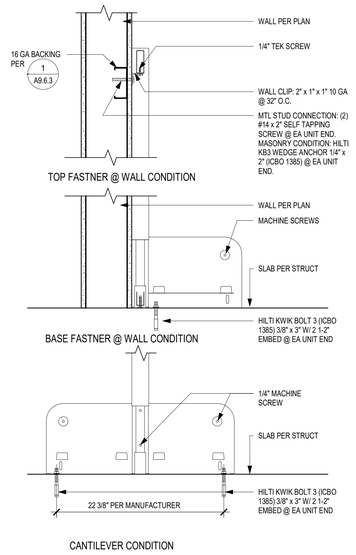
INTERIOR DETAILS

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PROJECT NO: 19009
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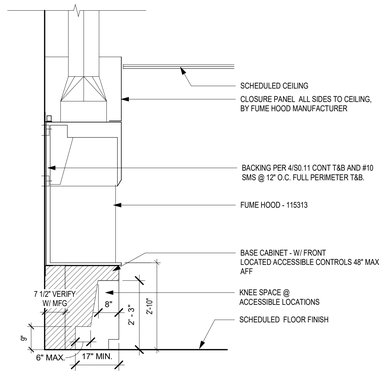
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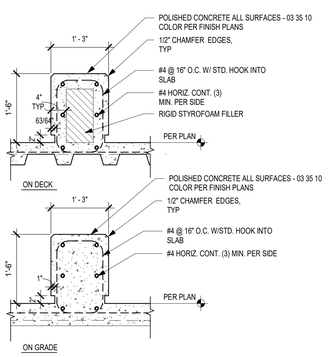
13 INT - LIBRARY SHELVING ANCHORAGE

1 1/2" = 1'-0"



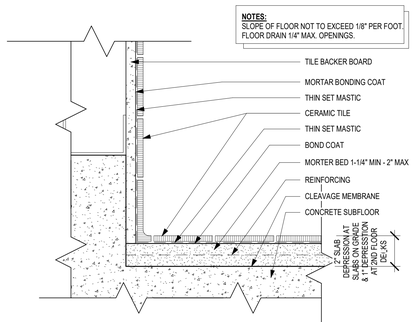
14 INT - FUME HOOD

1/2" = 1'-0"



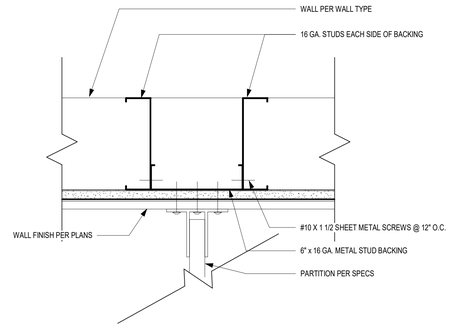
15 INT - CORRIDOR SEAT WALL ON DECK/GRADE

3/4" = 1'-0"



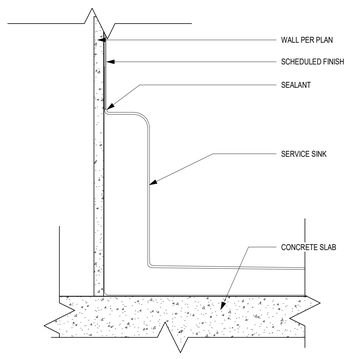
9 INT - CERAMIC TILE TCA-F121-01 & W243-010D FLOOR

3" = 1'-0"



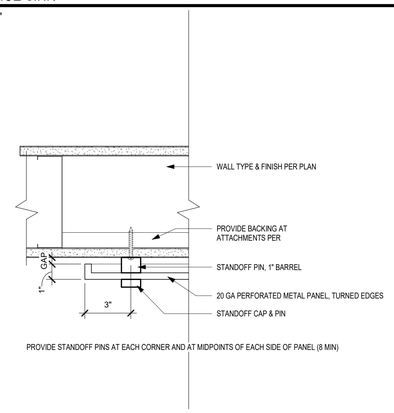
10 TOILET PARTITION ANCHOR DETAIL

3" = 1'-0"



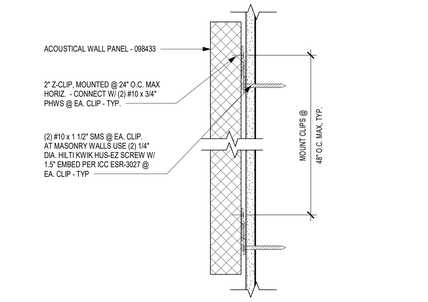
11 SERVICE SINK

3" = 1'-0"



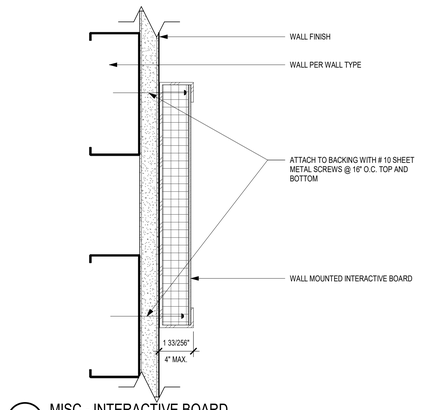
12 INT - PERFORATED METAL PANEL ATTACHMENT TO WALL

3" = 1'-0"



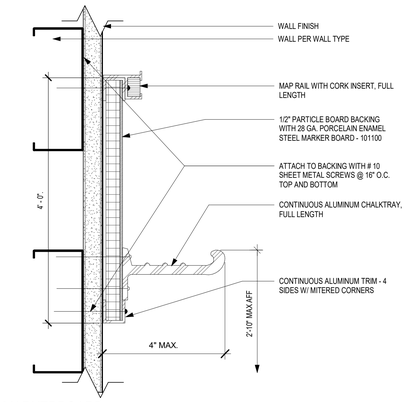
5 INT - ACOUSTICAL WALL PANEL

3" = 1'-0"



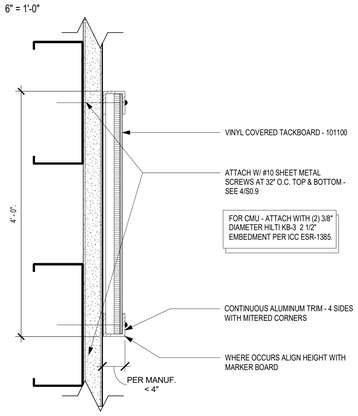
6 MISC - INTERACTIVE BOARD

6" = 1'-0"



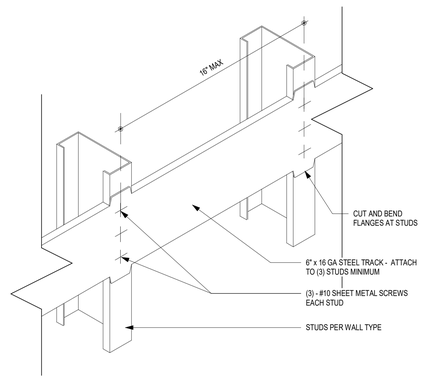
7 MARKERBOARD

6" = 1'-0"



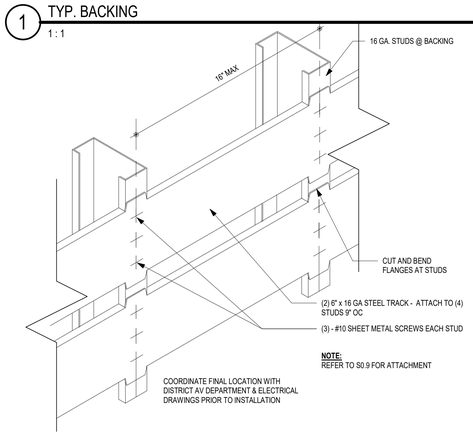
8 DETAIL @ TACKBOARD

6" = 1'-0"



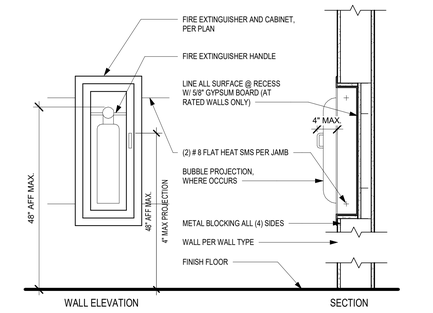
1 TYP. BACKING

1 : 1



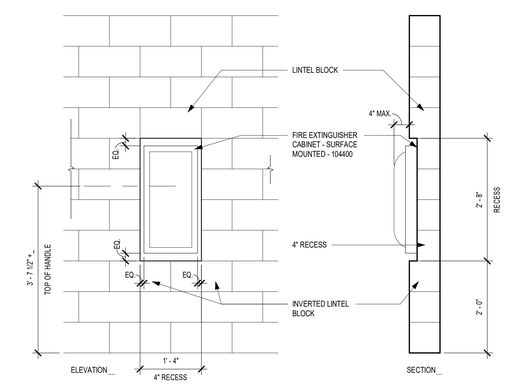
2 TYP. AV BACKING

1 : 1



3 FIRE EXTINGUISHER CABINET - FRAME WALL

1" = 1'-0"



4 INT - CMU WALL RECESS FOR FIRE CABINET

3/4" = 1'-0"

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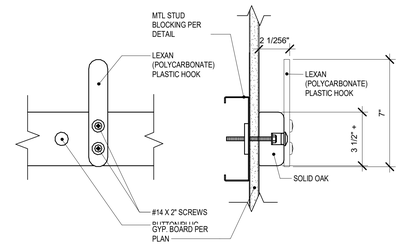
INTERIOR DETAILS

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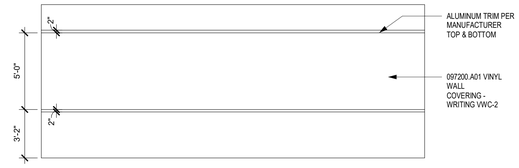
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1 INT - BACKPACK RACK @ METAL STUD BACKING

3" = 1'-0"



2 INT - TYP. CLASSROOM WALL

1/4" = 1'-0"

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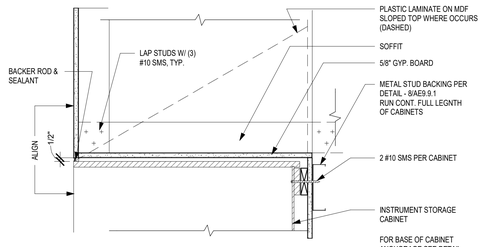
INTERIOR DETAILS

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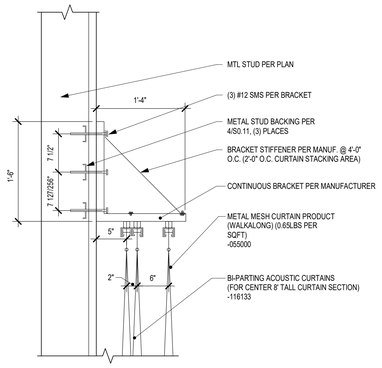
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DATE: 02/28/2020

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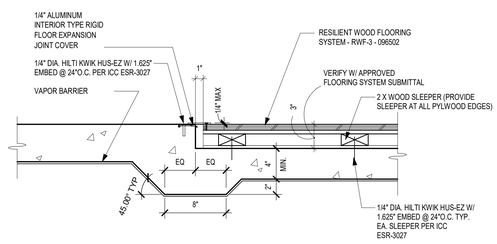
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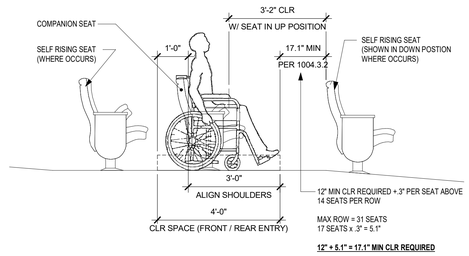
13 INT - INSTRUMENT STORAGE ATTACHMENT
1 1/2" = 1'-0"



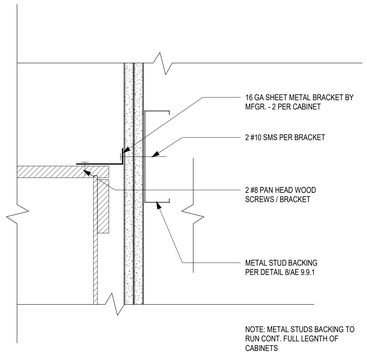
PARTIAL HEIGHT (8' MAX)



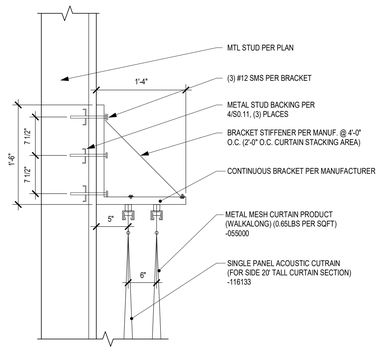
5 INT - FLOOR - WOOD STAGE EDGE
1 1/2" = 1'-0"



1 INT - THEATER SEATING - ACCESSIBLE
1/2" = 1'-0"

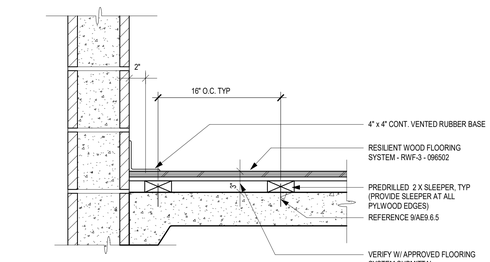


14 INT - WALL ANCHOR @ INSTRUMENT STORAGE
3" = 1'-0"

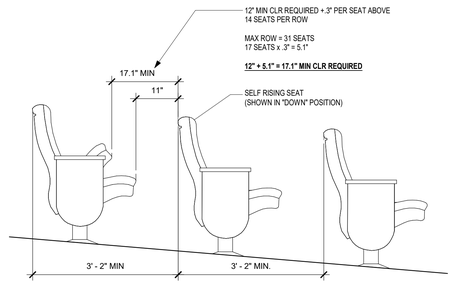


FULL HEIGHT (20' MAX)

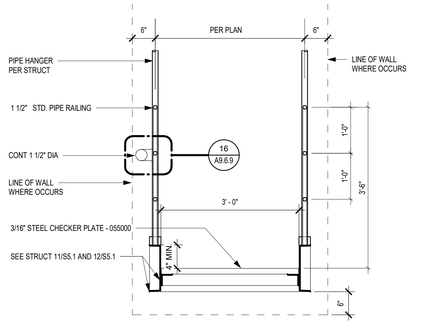
10 ACOUSTIC CURTAIN PANELS
1" = 1'-0"



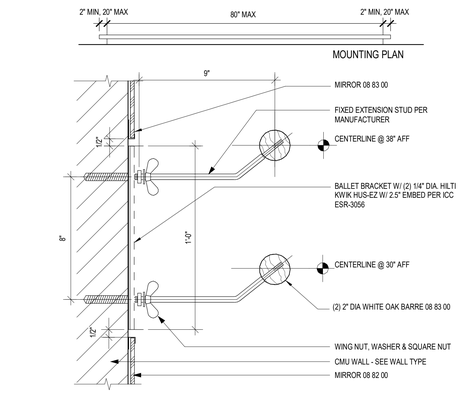
6 INT - FLOOR - WOOD STAGE EDGE @ WALL
1 1/2" = 1'-0"



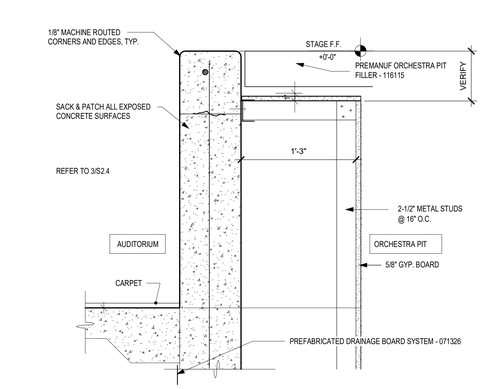
2 INT - THEATER SEATING
3/4" = 1'-0"



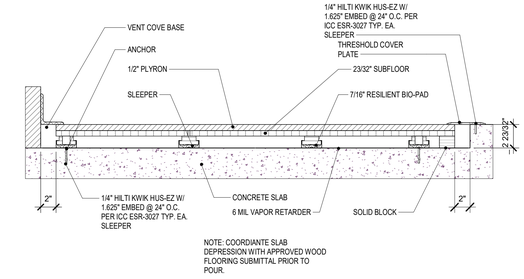
15 INT - CATWALK SECTION
3/4" = 1'-0"



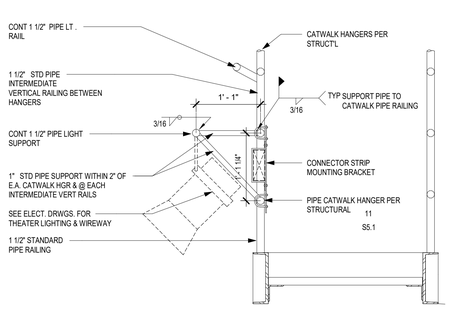
11 DANCE BARRES
3" = 1'-0"



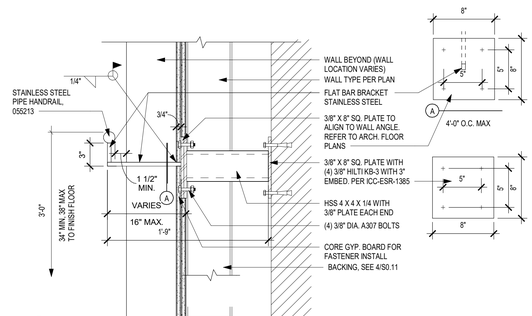
7 INT -OCHESTRA PIT WALL
1 1/2" = 1'-0"



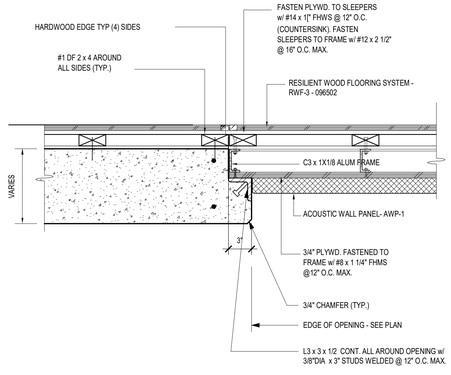
3 INT -STAGE FLOOR - RWF-3
1 1/2" = 1'-0"



16 INT - THEATER LIGHTING AT CATWALK RAILING
1" = 1'-0"



12 INT - HANDRAIL CONNECTION
1 1/2" = 1'-0"



8 REMOVABLE STAGE HATCH DETAIL
1 1/2" = 1'-0"

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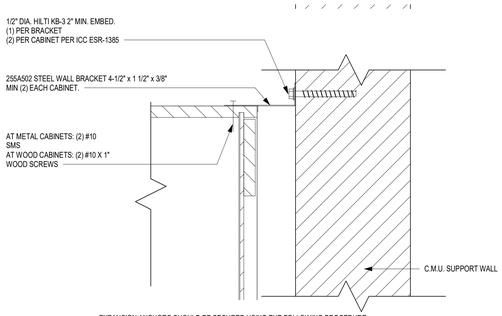
INTERIOR DETAILS - THEATER

NO. DATE ISSUE

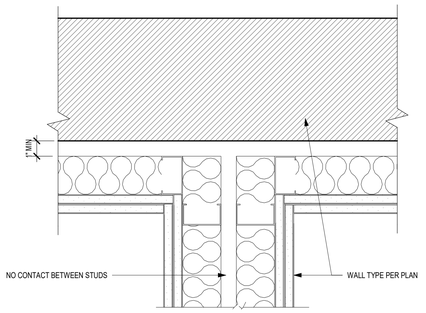
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DATE: 02/28/2020

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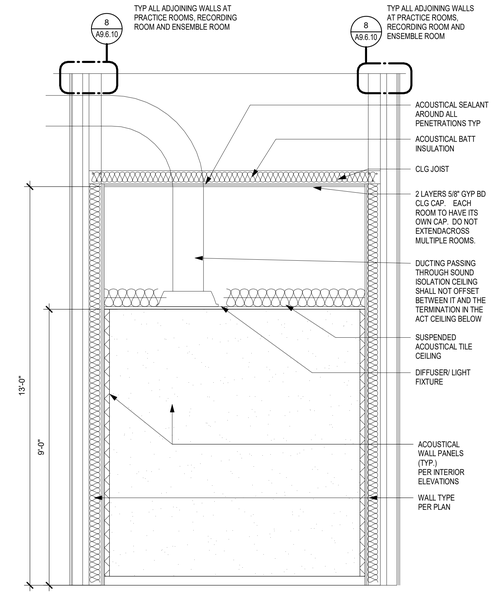
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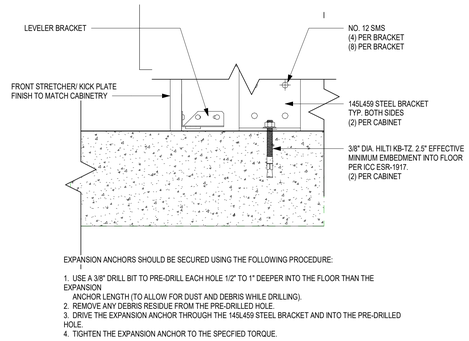
9 INT - INSTRUMENT STORAGE CASEWORK - ANCHORAGE @ CMU
3" = 1'-0"



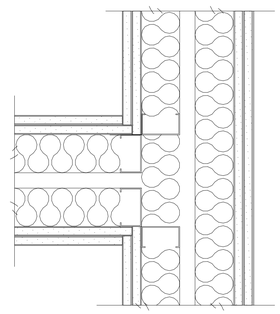
5 INT - PRACTICE ROOM PLAN DETAIL A
3" = 1'-0"



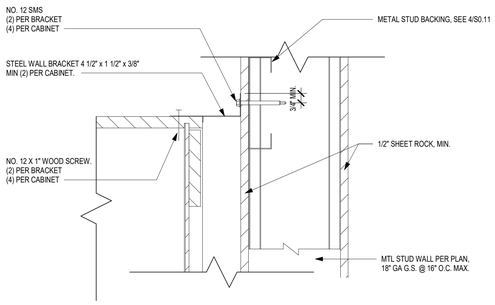
1 TYP PRACTICE ROOM
1/2" = 1'-0"



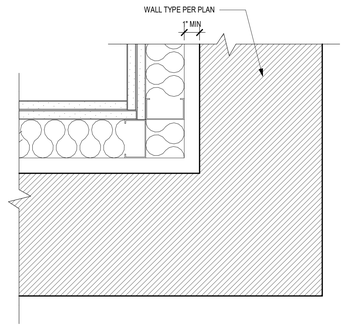
10 INT - INSTRUMENT STORAGE CASEWORK - FLOOR ANCHORAGE1
3" = 1'-0"



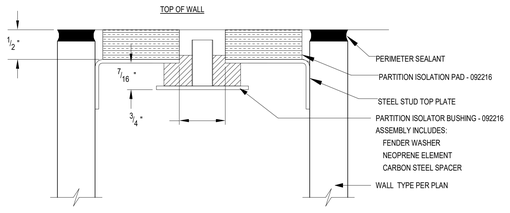
6 INT - PRACTICE ROOM PLAN DETAIL B
3" = 1'-0"



11 INT - INSTRUMENT STORAGE CASEWORK - WALL ANCHORAGE @ MTL STUD
3" = 1'-0"



7 INT - PRACTICE ROOM PLAN DETAIL C
3" = 1'-0"



NOTES:
- TYPICALLY LOCATED 16" OR 24" ON CENTER
- ACCEPTS 1/4" ANCHORS
- REQUIRES MINIMUM 3/8" DIA. HOLE THROUGH PARTITION ISOLATION PAD
- REQUIRES DRILLING 3/4" DIA. HOLE THROUGH STUD TO SEAT NEOPRENE ELEMENT

8 INT - TOP OF WALL
12" = 1'-0"

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INTERIOR DETAILS - THEATER

NO. DATE ISSUE

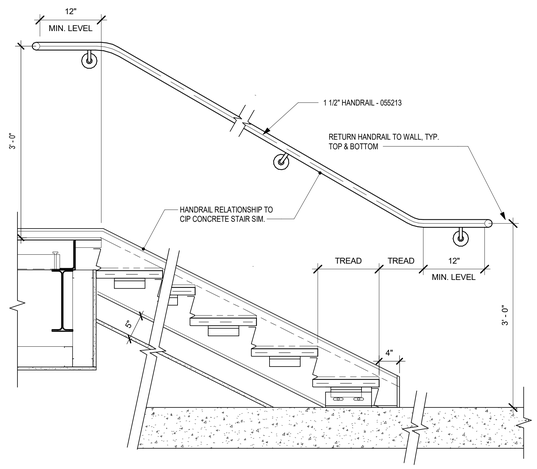
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DATE: 02/28/2020

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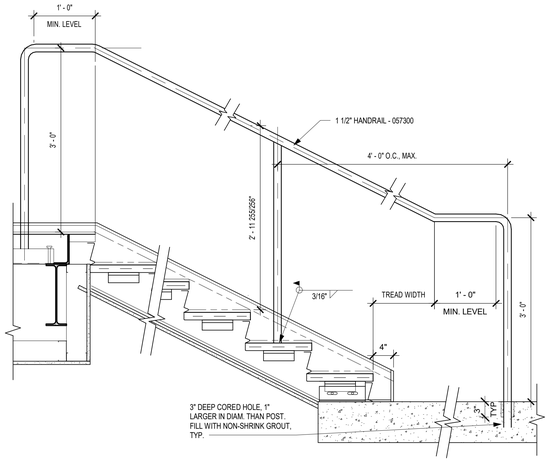
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12 STAIR - METAL - WALL HANDRAIL
1" = 1'-0"



8 STAIR - METAL - CENTER HANDRAIL
1" = 1'-0"

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STAIR DETAILS

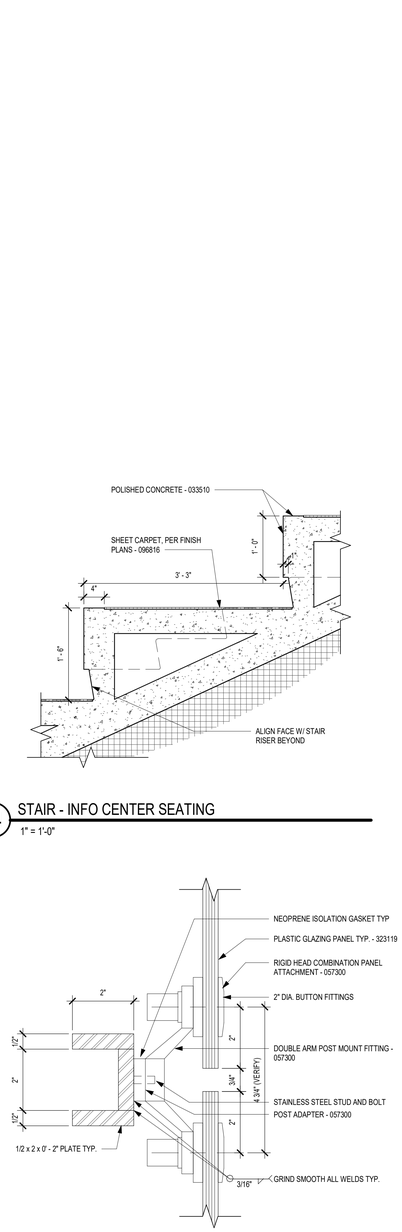
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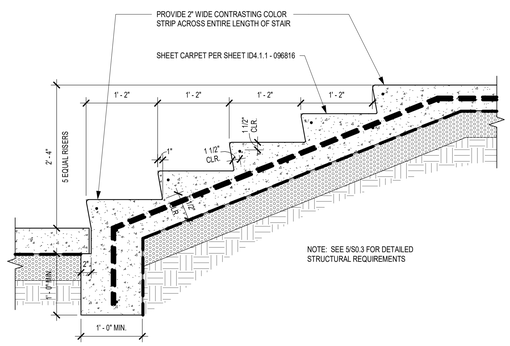
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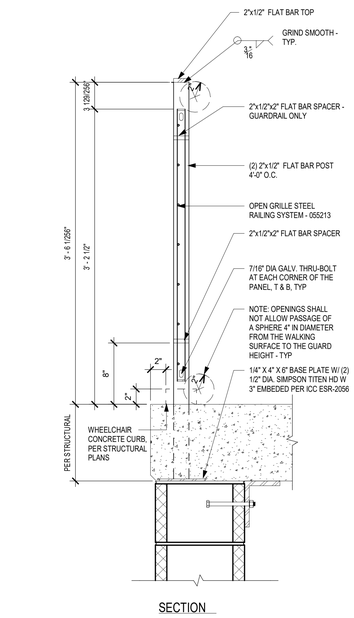
14 STAIR - INFO CENTER SEATING
1" = 1'-0"



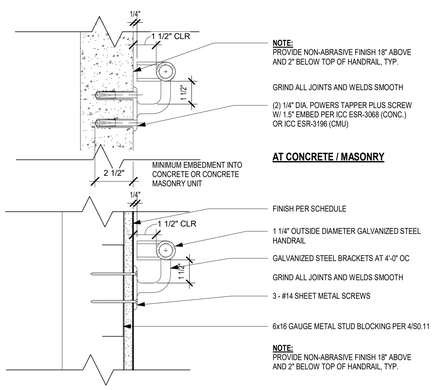
15 STAIR - RAIL ARM SUPPORT
6" = 1'-0"



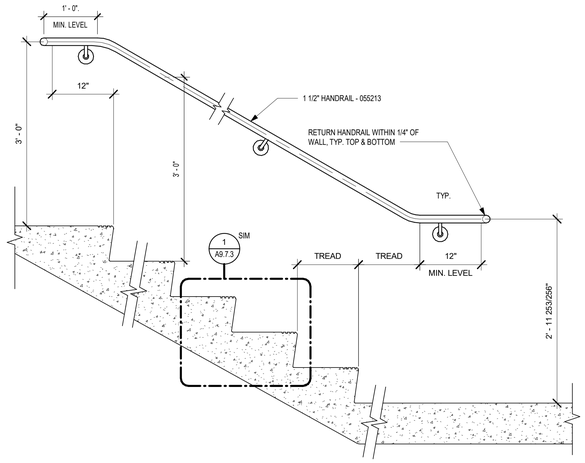
16 STAIR - STEPS AT STAGE
1" = 1'-0"



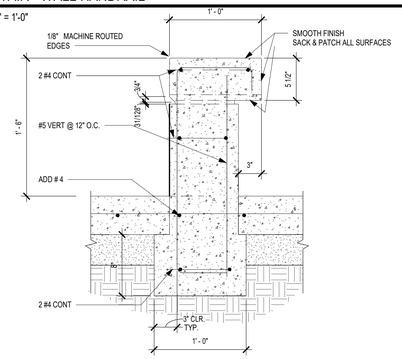
10 STAIR - SURFACE MOUNTED RAILING AND POST DETAIL
1 1/2" = 1'-0"



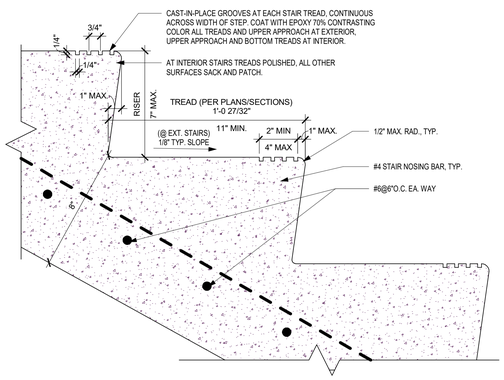
11 HANDRAIL MOUNTING DETAIL
3" = 1'-0"



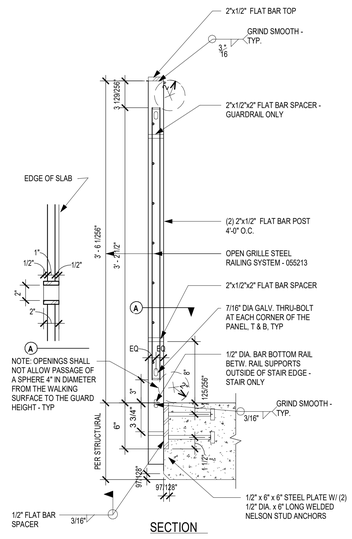
5 STAIR - WALL HANDRAIL
1" = 1'-0"



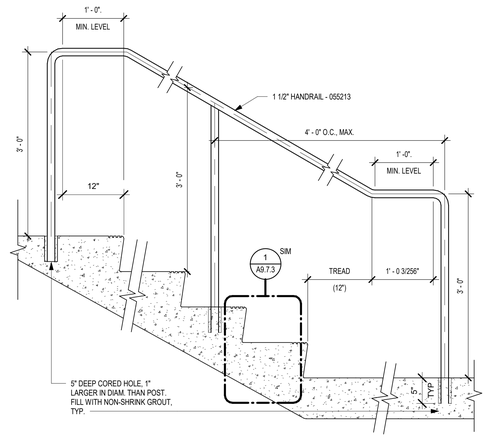
7 STAIR - CONCRETE BENCH
1 1/2" = 1'-0"



1 STAIR - CONCRETE STAIRS
3" = 1'-0"



3 STAIR - RAILING AND POST DETAIL
1 1/2" = 1'-0"



4 STAIR - CENTER HANDRAIL - FLOOR MOUNTED
1" = 1'-0"

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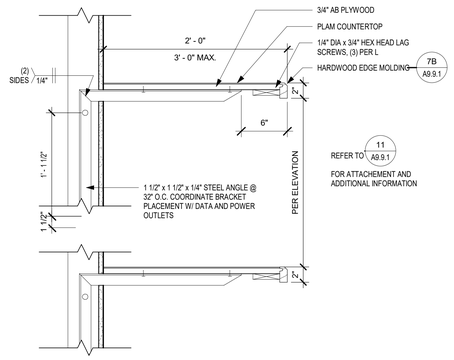
STAIR DETAILS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

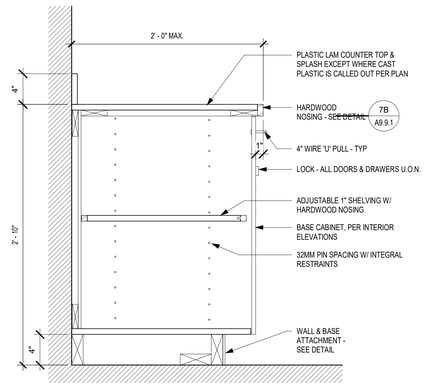
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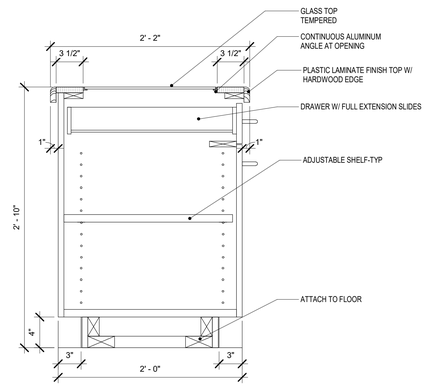
13 COUNTER SUPPORT

1 1/2" = 1'-0"



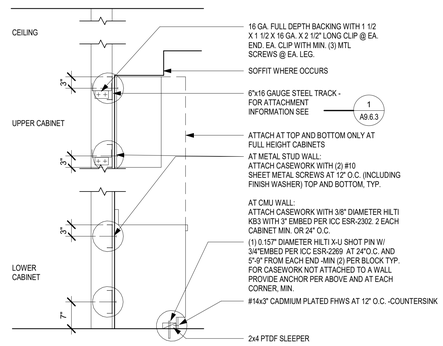
9 BASE COUNTER

1 1/2" = 1'-0"



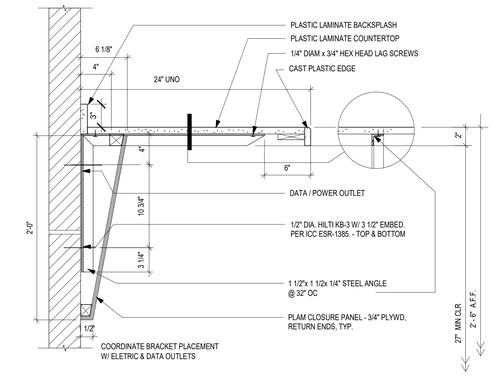
5 MILL - DISPLAY CASE

1 1/2" = 1'-0"



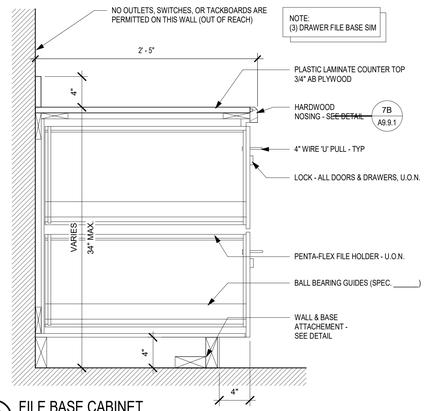
1 MILL - ANCHORAGE

3/4" = 1'-0"



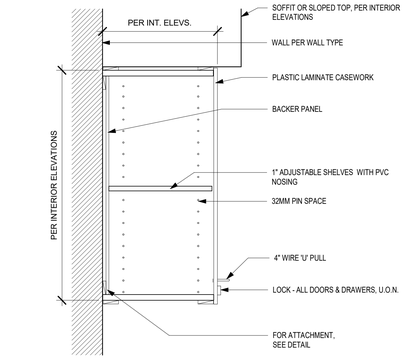
14 MILL - COUNTER SUPPORT 2

1 1/2" = 1'-0"



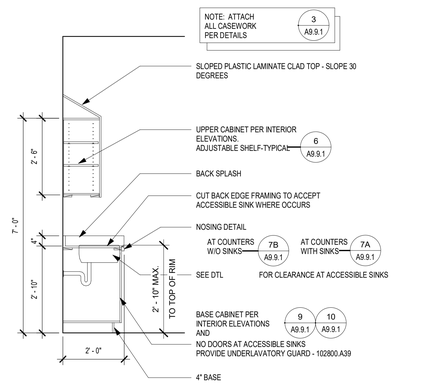
10 FILE BASE CABINET

1 1/2" = 1'-0"



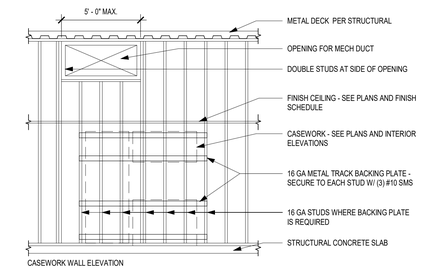
6 UPPER CABINET

1 1/2" = 1'-0"



2 MILL - MILL SECTION B

1/2" = 1'-0"



CASEWORK WALL ELEVATION

1. SEE DETAILS & FOR TYPICAL WALL FRAMING INFORMATION.

2. USE BACKING PLATE FOR WALL-HUNG CABINETS (UP TO 2 SHELVES), BASE CABINETS, FULL HEIGHT CABINETS, AND LOCKERS.

3. USE #10 SELF-TAPPING SHEET METAL SCREWS TO ATTACH ITEMS TO BACKING PLATES.

4. WALL STUD FLANGES MUST BE CONTINUOUS.

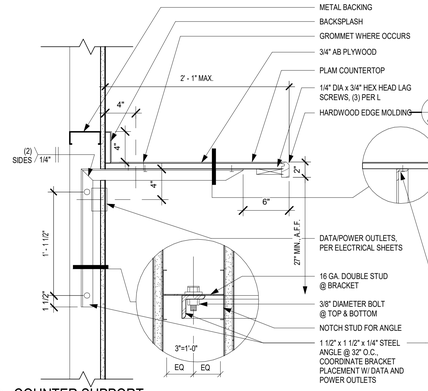
5. ANCHOR BACKING PLATES TO (3) STUDS MINIMUM AND TO (1) STUD BEYOND ITEM.

3 TYP. WALL FRAMING / BACKING

1/4" = 1'-0"

15 MILL - COUNTER SUPPORT @ CMU WALL

1 1/2" = 1'-0"

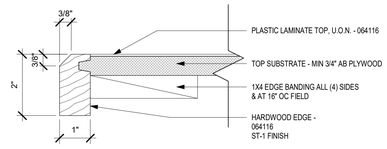


11 COUNTER SUPPORT

1 1/2" = 1'-0"

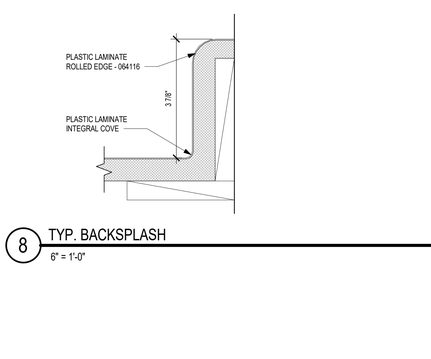
7A EDGE DETAIL - AT COUNTERS WITH SINKS

6" = 1'-0"



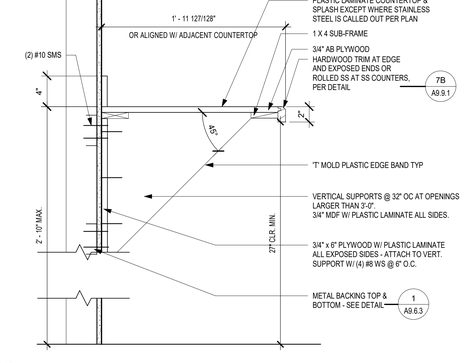
7B EDGE DETAIL - AT COUNTERS WITHOUT SINKS

6" = 1'-0"



12 MILL - SS COUNTER SUPPORT

1 1/2" = 1'-0"



16 MILL - OPEN COUNTER TOP / KNEE SPACE

1 1/2" = 1'-0"

8 TYP. BACKSPLASH

6" = 1'-0"

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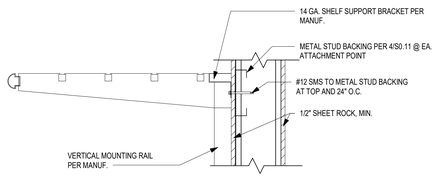
MILLWORK DETAILS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

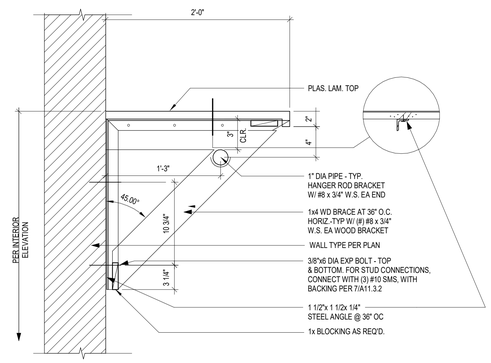
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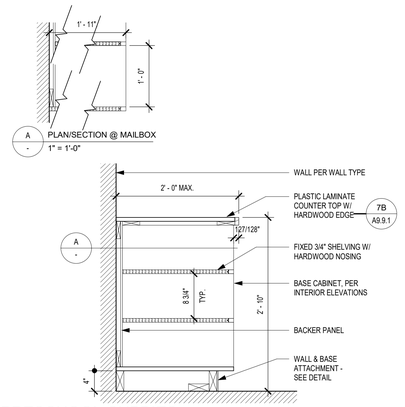
13 MILL - DANCE STORAGE CASEWORK - ANCHORAGE @ MTL STUD

1 1/2" = 1'-0"



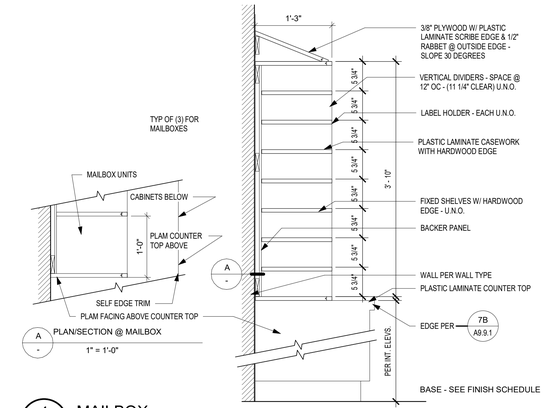
9 MILL - CLOSET SHELVING

1 1/2" = 1'-0"



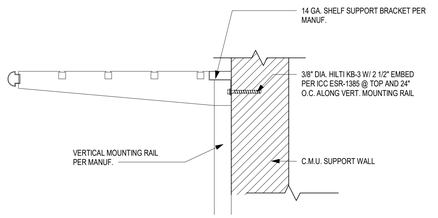
5 PRESCHOOL CUBBIES

1" = 1'-0"



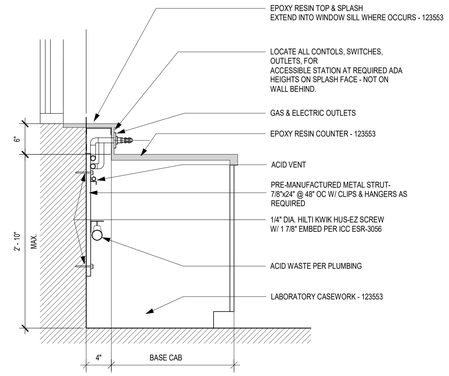
1 MAILBOX

1" = 1'-0"



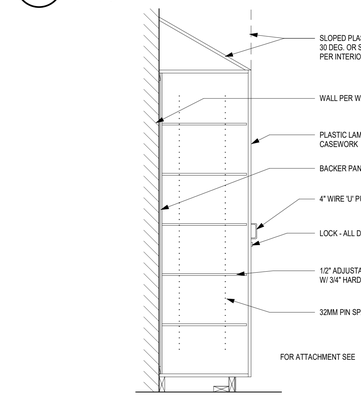
14 MILL - DANCE STORAGE CASEWORK - ANCHORAGE @ CMU

1 1/2" = 1'-0"



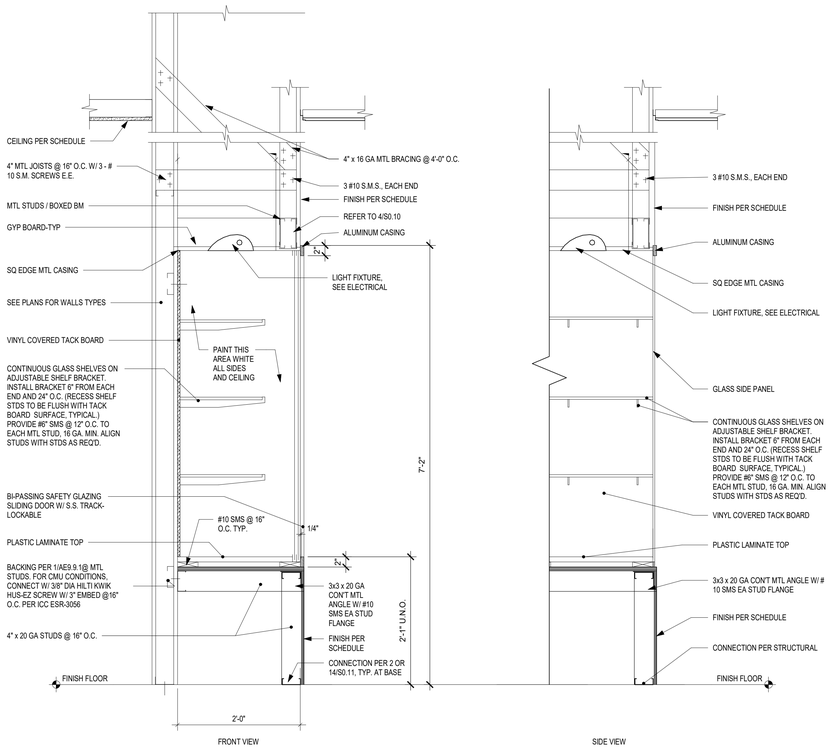
6 MILL - SCIENCE CASEWORK

1" = 1'-0"



2 MILL - FULL HEIGHT CABINET

3/4" = 1'-0"



8 MILL - DISPLAY CASE (WITH LIGHTING)

1" = 1'-0"

3 TYPICAL CLASSROOM CASEWORK

1/2" = 1'-0"

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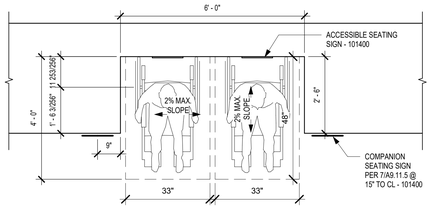
MILLWORK DETAILS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

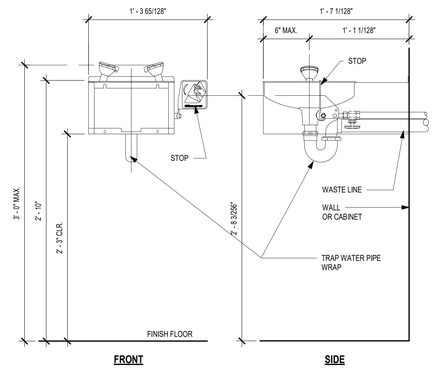
DRAWING
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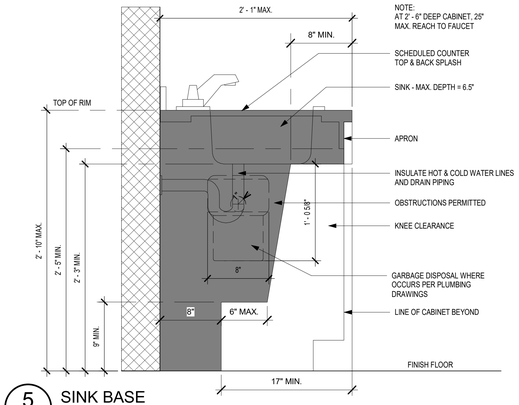
13 ACCESS - SEATING AT LOWER STADIUM LEVEL

1/2" = 1'-0"



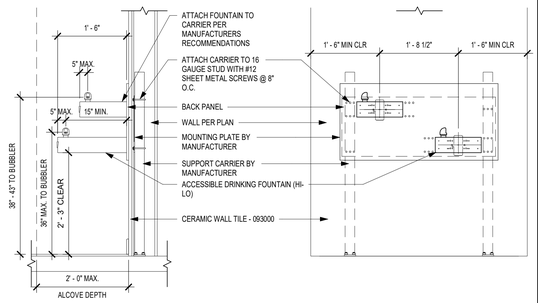
9 ACCESSIBLE EMERGENCY EYE WASH

1 1/2" = 1'-0"



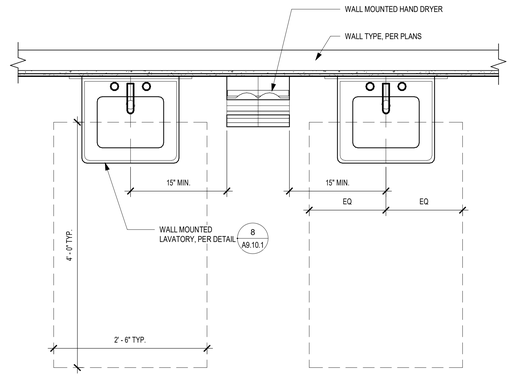
5 SINK BASE

1 1/2" = 1'-0"



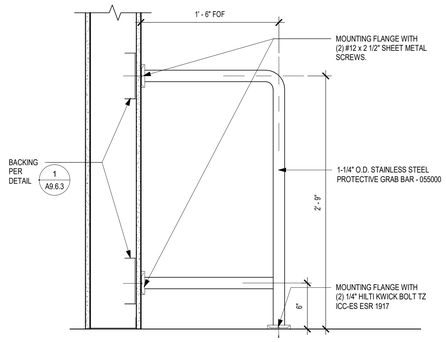
1 A9.10.1 DRINKING FOUNTAIN ACCESSIBILITY

3/4" = 1'-0"



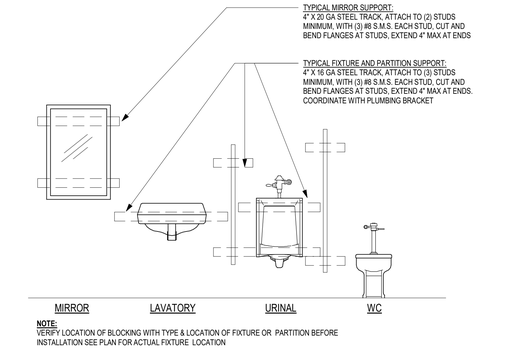
14 ACCESSIBLITY @ SINK AND HANDRYER

1" = 1'-0"



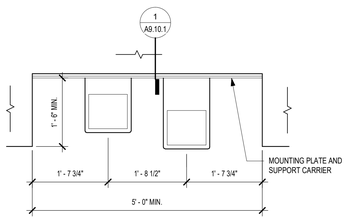
10 ACCESS - PROTECTIVE RAIL

1 1/2" = 1'-0"



2 FIXTURE MOUNTING

1/4" = 1'-0"



15 ACCESS - DRINKING FOUNTAIN (INTERIOR)

3/4" = 1'-0"

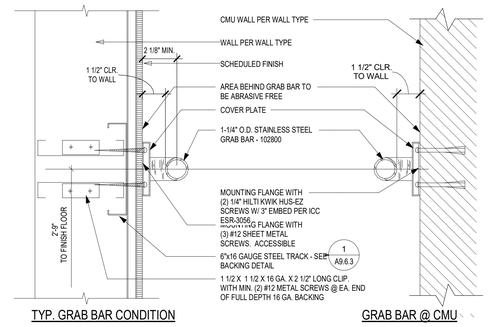
CBC TABLE 11B-604.9
SUGGESTED DIMENSIONS FOR CHILDREN'S USE

DIMENSION	*SUGGESTED*			
	AGE 12+ (INCHES)	*AGE 9-12 (INCHES)*	*AGE 5-8 (INCHES)*	*AGE 3-4 (INCHES)*
TOILET CENTERING FROM WALL	17 - 18	15 - 18	12-15	12
TOILET SEAT DIMENSIONS TO TOP OF SEAT	17 - 19	15-17	12-15	11 - 12
GRAB BAR HEIGHT (TOP OF BAR)	33 - 36	25-27	20-25	18-20
TOILET PAPER DISPENSER HEIGHT	19 MIN.	17-19	14-17	14
TOILET PAPER IN FRONT OF TOILET	7 - 9 (CL)	7 - 9 (CL)	7 - 9 (CL)	7 - 9 (CL)
NAPKIN DISPOSAL IN FRONT OF TOILET	12 MAX.	12 MAX.	12 MAX.	N/A
DISPENSER OR MIRROR HEIGHT	40 MAX.	40 MAX.	36 MAX.	32 MAX.
LAVATORY/SINK TOP HEIGHT	34 MAX.	34 MAX.	27 MAX.	24 MAX.
LAVATORY/SINK KNEE CLEARANCE	27 MIN.	27 MIN.	PARALLEL APPROACH PERMITTED	
URINAL LIP HEIGHT	17 MAX.	17 MAX.	15 MAX.	13 MAX.
URINAL FLUSH HANDLE HEIGHT	44 MAX.	44 MAX.	37 MAX.	32 MAX.
DRINKING FOUNTAIN BUBBLER HEIGHT	36 MAX.	36 MAX.	30 MAX.	30 MAX.
DRINKING FOUNTAIN KNEE CLEARANCE	27 MAX.	27 MAX.	PARALEL APPROACH PERMITTED	PARALEL APPROACH PERMITTED
RAMP/STAIR HANDRAIL HEIGHT	34 - 38	34 - 38	34 - 38	34 - 38

SEE 8/A9.10.1 FOR MOUNTING SCHEDULE

11 A9.10.1 ACCESS - TOILET FIXTURE SUGGESTED DIMENSIONS

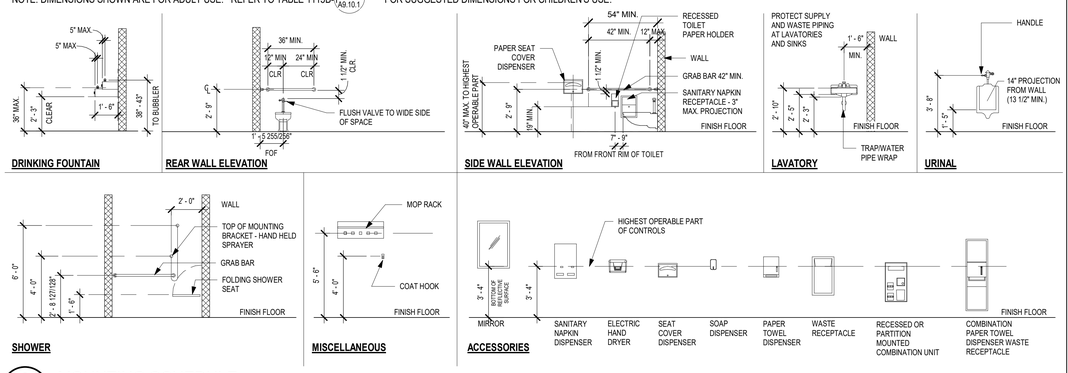
12" = 1'-0"



3 ACCESS - GRAB BAR ATTACHMENT AT FRAME

3" = 1'-0"

NOTE: DIMENSIONS SHOWN ARE FOR ADULT USE. REFER TO TABLE 1115B-1 (11 A9.10.1) FOR SUGGESTED DIMENSIONS FOR CHILDREN'S USE.



8 A9.10.1 MOUNTING SCHEDULE

1/4" = 1'-0"

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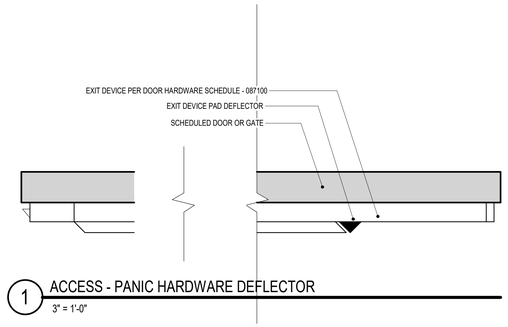
ACCESSIBILITY DETAILS

NO. DATE ISSUE

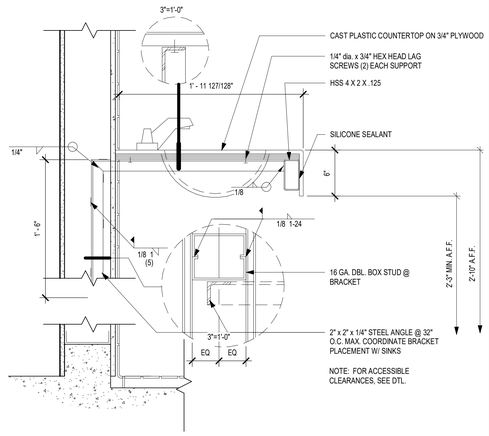
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1 ACCESS - PANIC HARDWARE DEFLECTOR
3" = 1'-0"



4 ACCESS - TOILET ROOM LAVATORY
1 1/2" = 1'-0"

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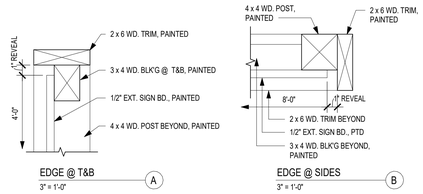
ACCESSIBILITY DETAILS

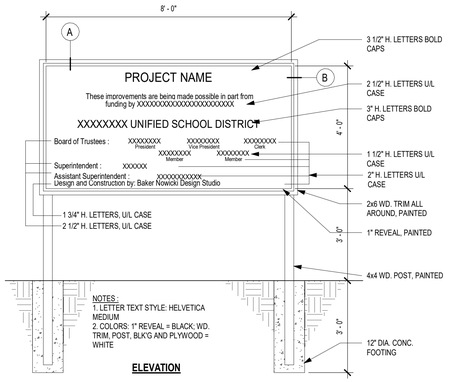
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DATE: 02/28/2020

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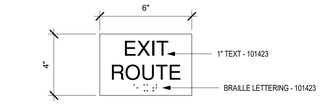




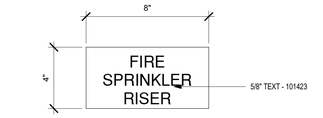
20 SIGN - TEMPORARY JOB SITE SIGN
1/2" = 1'-0"

21 SIGN - DEDICATION PLAQUE
3" = 1'-0"

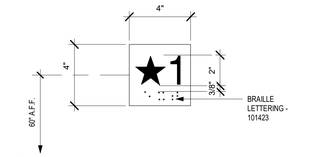
22 SIGN - BUILDING DIRECTORY
3" = 1'-0"



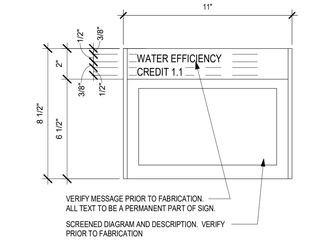
12 SIGN - ROOM IDENTIFICATION SIGN - EXIT ROUTE - DS-8
3" = 1'-0"



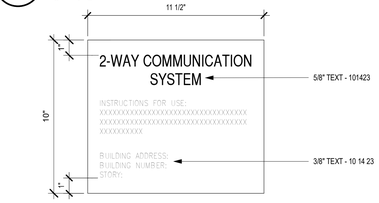
13 SIGN - ROOM IDENTIFICATION SIGN - DS-9
3" = 1'-0"



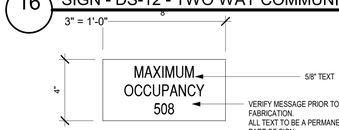
14 SIGN - ELEVATOR FLOOR ID - DS-10
3" = 1'-0"



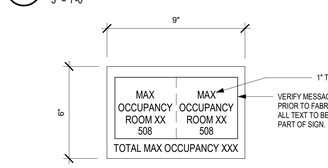
15 SIGN - LEED - DS-11
3" = 1'-0"



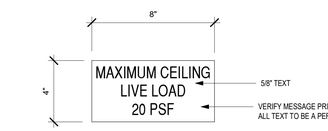
16 SIGN - DS-12 - TWO WAY COMMUNICATION
3" = 1'-0"



17 SIGN - SAFETY SIGN - MAXIMUM OCCUPANCY - SS-1
3" = 1'-0"



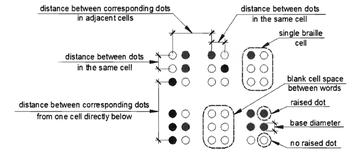
18 SIGN - SAFETY SIGN - MAXIMUM OCCUPANCY - SS-2
3" = 1'-0"



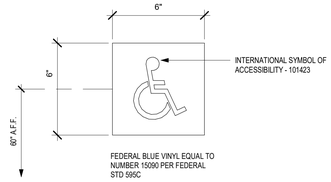
19 SIGN - SAFETY SIGN - MAX LIVE LOAD - SS-3
3" = 1'-0"

MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
Dot base diameter	0.059 (1.5 mm) to 0.063 (1.6 mm)
Distance between two dots in the same cell[1]	0.100 (2.5 mm)
Distance between corresponding dots in adjacent cells[1]	0.300 (7.6 mm)
Dot height	0.025 (0.6 mm) to 0.037 (0.9 mm)
Distance between corresponding dots from one cell directly below[1]	0.395 (10 mm) to 0.400 (10.2 mm)

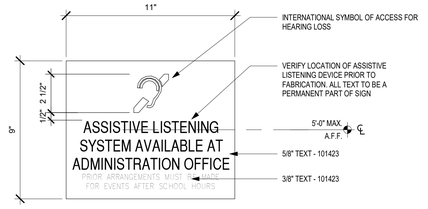
1. Measured center to center.



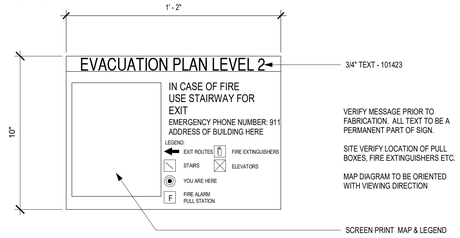
7 SIGN - BRAILLE DIMENSIONS
3/16" = 1'-0"



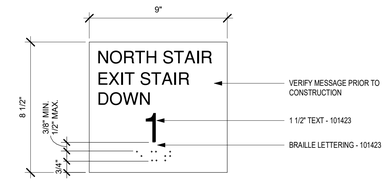
8 SIGN - ACCESSIBILITY - DS-1
3" = 1'-0"



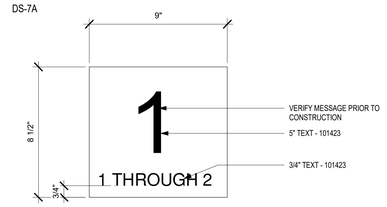
9 SIGN - DIRECTIONAL SIGN- ASSISTIVE LISTENING DEVICE- DS-4
3" = 1'-0"



10 SIGN - ELEVATOR EVACUATION SIGN - DS-6
3" = 1'-0"

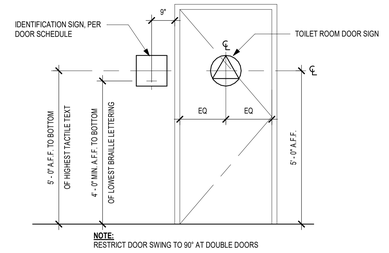


DS-7A

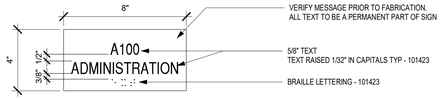


DS-7B

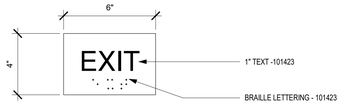
11 SIGN - STAIR SIGN - DS-7A & DS-7B
3" = 1'-0"



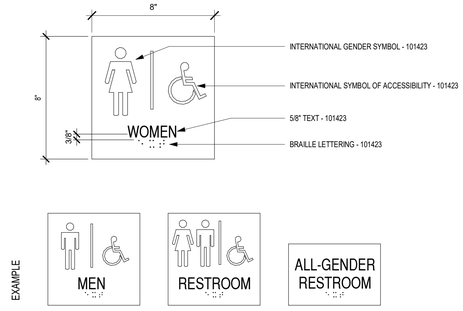
1 SIGN - SIGN MOUNTING DETAIL
1/2" = 1'-0"



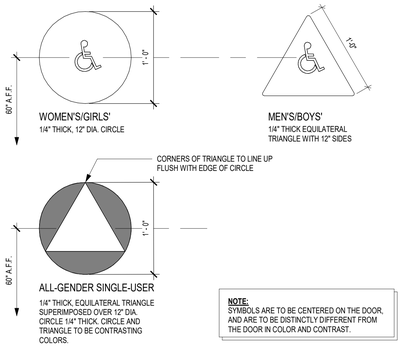
2 SIGN - ROOM IDENTIFICATION SIGN - RS-1
3" = 1'-0"



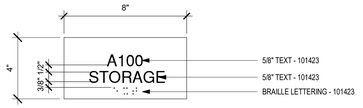
3 SIGN - EXIT-RS-2
3" = 1'-0"



4 SIGN - TOILET ROOM SIGNS - RS-3
3" = 1'-0"



5 SIGN - ROOM IDENTIFICATION SIGN - TOILET ROOM RS-4
1 1/2" = 1'-0"



6 SIGN - ROOM IDENTIFICATION SIGN - ID & NUMBER ONLY- RS-5
3" = 1'-0"

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DEL MAR HEIGHTS SCHOOL REBUILD

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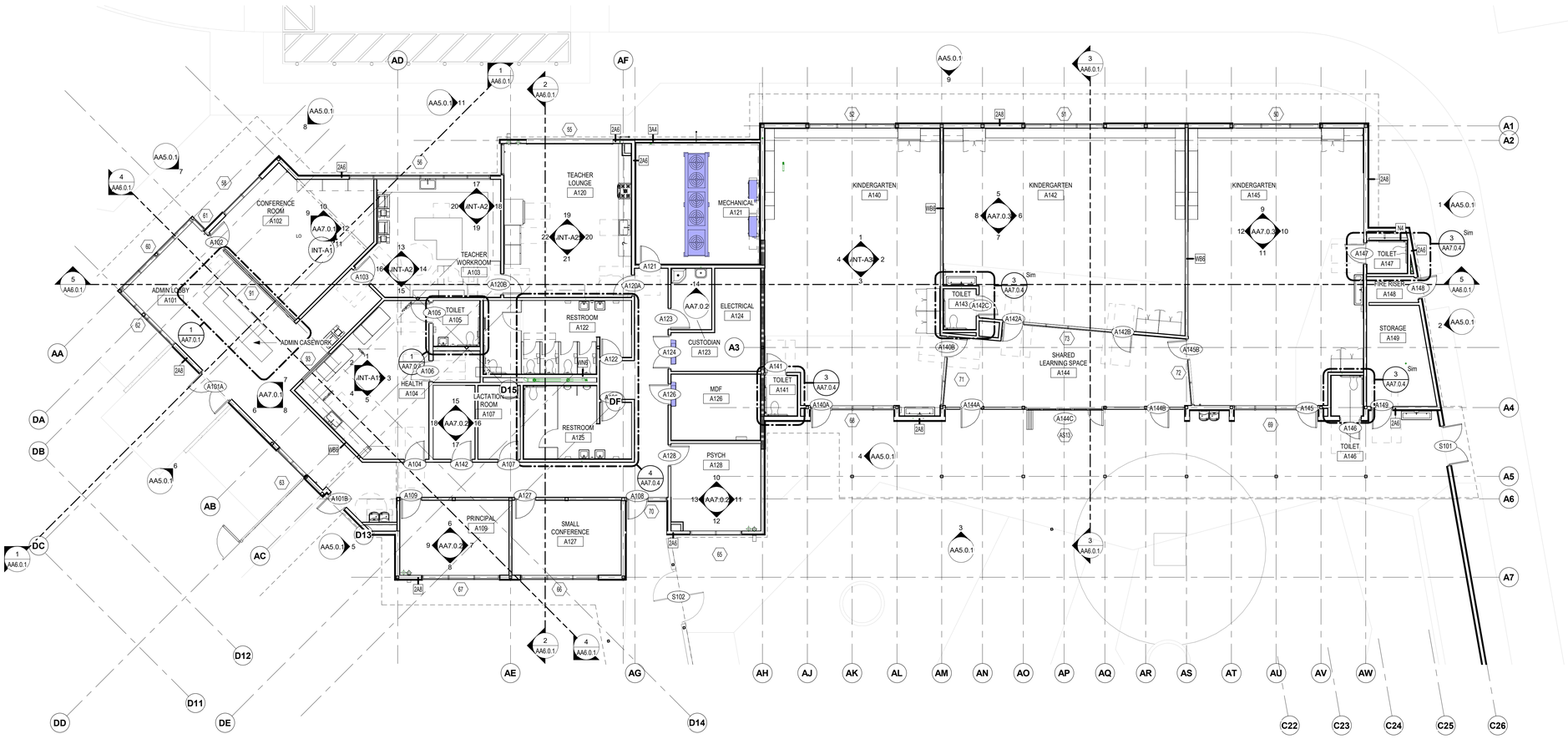
SIGNAGE DETAILS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
A9.11.1

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2/24/2020 7:50:54 AM



1 FLOOR PLAN - BLDG A

1/8" = 1'-0"

BM 360://19009-00 Del Mar Heights ES/ARCH-BN/DS-DMHS.rvt

2/24/2020 7:51:00 AM

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KEYNOTES

WALL LEGEND

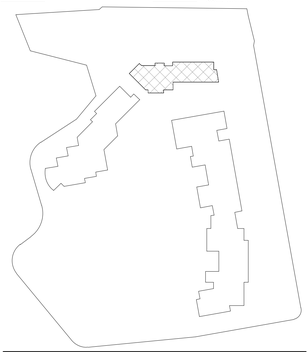
- XX — WALL TYPES PER SHEET A2.0.1
- NON-RATED PARTITION - PER WALL TYPE
- 1 HOUR RATED FIRE BARRIER - PER WALL TYPE - SEE NOTE 8
- 1 HOUR RATED FIRE PARTITION - PER WALL TYPE - SEE NOTE 8
- 1 HOUR RATED SHAFT WALL - PER WALL TYPE - SEE NOTE 8

GENERAL NOTES

1. FINISH FLOOR PER CIVIL
2. DOOR FRAMES LOCATED NEAR ADJACENT WALLS OR CASEWORK TO BE 4" FROM INSIDE CORNER, U.N.O.
3. COORDINATE AND CONFIRM EXACT LOCATIONS OF ALL FLOOR MOUNTED OUTLETS PRIOR TO CONCRETE PLACEMENT, SEE ELECT.
4. FOR TYPICAL WALL FRAMING DETAILS, SEE SHEET A9.6.1 & A9.6.2
5. AREAS WITH DRAINS OR SCUPPERS SHALL HAVE 2% MAX. SLOPE IN ALL DIRECTIONS.
6. FLOOR DRAINS SHALL HAVE 1/2" MAX. STRAINER OPENINGS IN ALL DIRECTIONS.
7. FOR FLOOR FINISH PLANS SEE ID SHEETS.
8. AT RATED WALLS, PROVIDE 1" HIGH PAINTED STENCIL LETTERS ABOVE ACCESSIBLE CEILING SPACE AT 30' INTERVALS WORDING:
   - 1HR FIRE BARRIER - PROTECT ALL OPENINGS
   - 1HR FIRE PARTITION - PROTECT ALL OPENINGS
   - 1HR SHAFT WALL - PROTECT ALL OPENINGS
9. SECOND FLOOR AIR TRANSFER DUCTS ARE REQUIRED TO BE PROTECTED AT ANNULAR SPACE AROUND DUCT PENETRATIONS PER DETAIL - TYP.

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



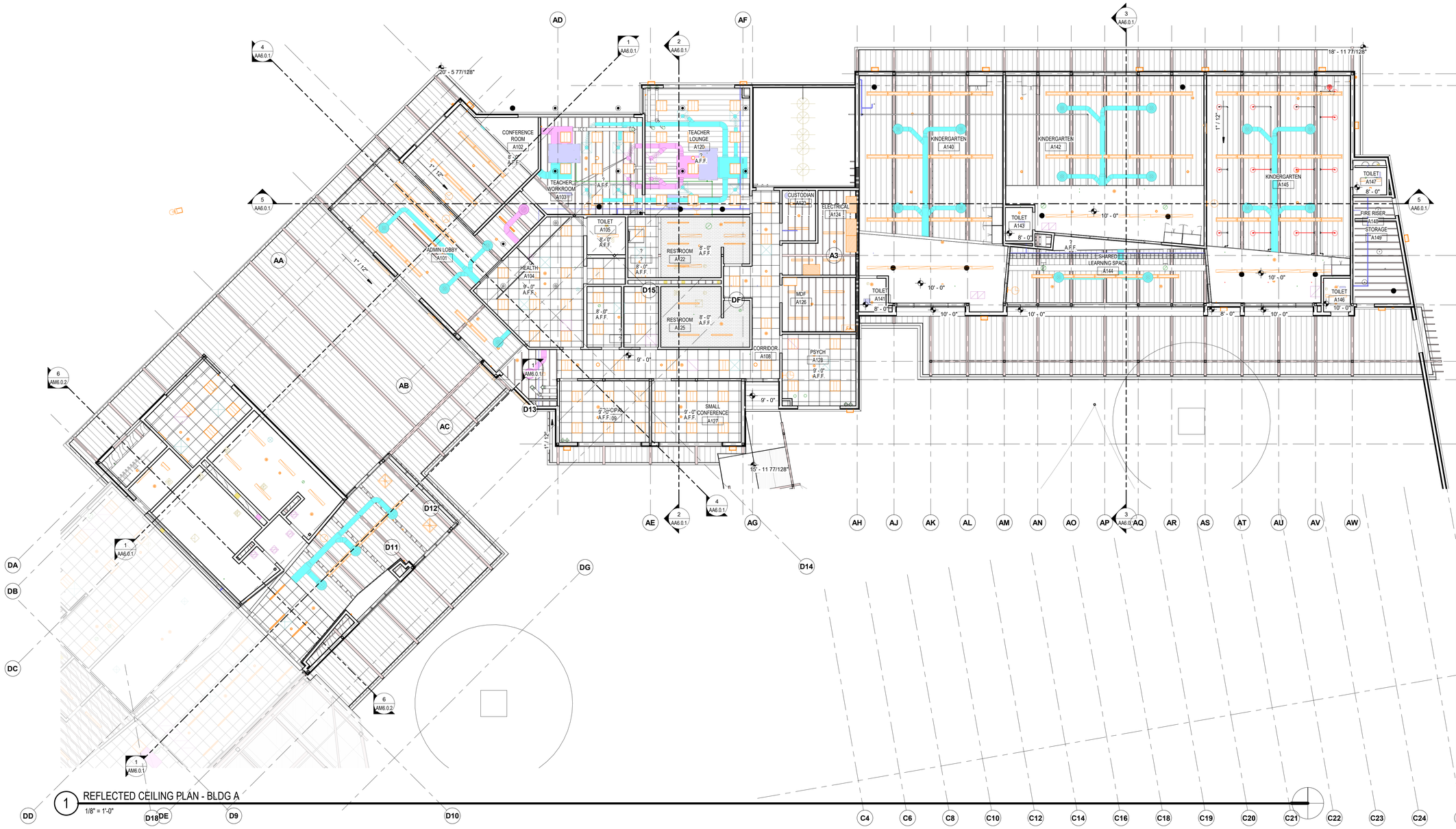
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BUILDING A
FLOOR PLAN

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
AA2.1.1



1 REFLECTED CEILING PLAN - BLDG A
1/8" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

CEILING LEGEND

- COMPOSITE WOOD UNDERSIDE OF SOFFIT
- ACOUSTIC PANELS BETWEEN EXPOSED STRUCTURE
- TRANSLUCENT FIBERGLASS CANOPY SYSTEM
- 2'-0" x 2'-0" SUSPENDED PANELS PER ROOM FINISH SCHEDULE - ACP-1 OR ACP-2 - 095113
- ACOUSTICAL CEILING CLOUD - ACP-3 - 095113
- 1'-0" x 8'-0" SUSPENDED METAL PANELS PER FINISH SCHEDULE - LMC-1 - 095423
- CURVED METAL PLANK PANELS PER FINISH SCHEDULE - LMC-2 - 095423 DIRECTION VARIES
- PAINTED GYPSUM BOARD PER FINISH SCHEDULE - 092900 (SPANS > 10' / SPANS < 10')
- PAINTED CEMENT PLASTER - SAND FINE FINISH - 092400
- PAINTED CEMENT PLASTER - SAND SUPER FINE FINISH - 092400
- METAL SOFFIT PANEL - 074213.53
- 4'x8' FIBER CEMENT SOFFIT - 074646
- THEATRICAL INSULATION SYSTEM (PINNED TO UNDERSIDE OF DECK) - 072100
- + X'-X" HEIGHT OF CEILING / SOFFIT
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- EXHAUST AIR DIFFUSER
- CEILING ACCESS PANEL - 083113
- LIGHT FIXTURES SEE ELECTRICAL DRAWINGS
- FIRE SPRINKLERS SEE FIRE SPRINKLER DRAWINGS

GENERAL NOTES

1. CENTER SUSPENDED CEILING GRIDS EACH WAY WITHIN SPACE, UNLESS NOTED OTHERWISE
2. CENTER MECHANICAL AIR GRILLES BETWEEN LIGHTS / WALLS IN GYPSUM BOARD CEILINGS AS SHOWN
3. CENTER LIGHT FIXTURES WITHIN SPACES UNLESS NOTED OTHERWISE
4. CEILING HEIGHT IS 9'-0" A.F.F. UNLESS NOTED OTHERWISE
5. EXIT LIGHTS NOT SHOWN, SEE ELECTRICAL DRAWINGS
6. FOR TYPICAL CEILING NOTES AND DETAILS, SEE SHEET A9.5.1, A9.5.2 & A9.5.3

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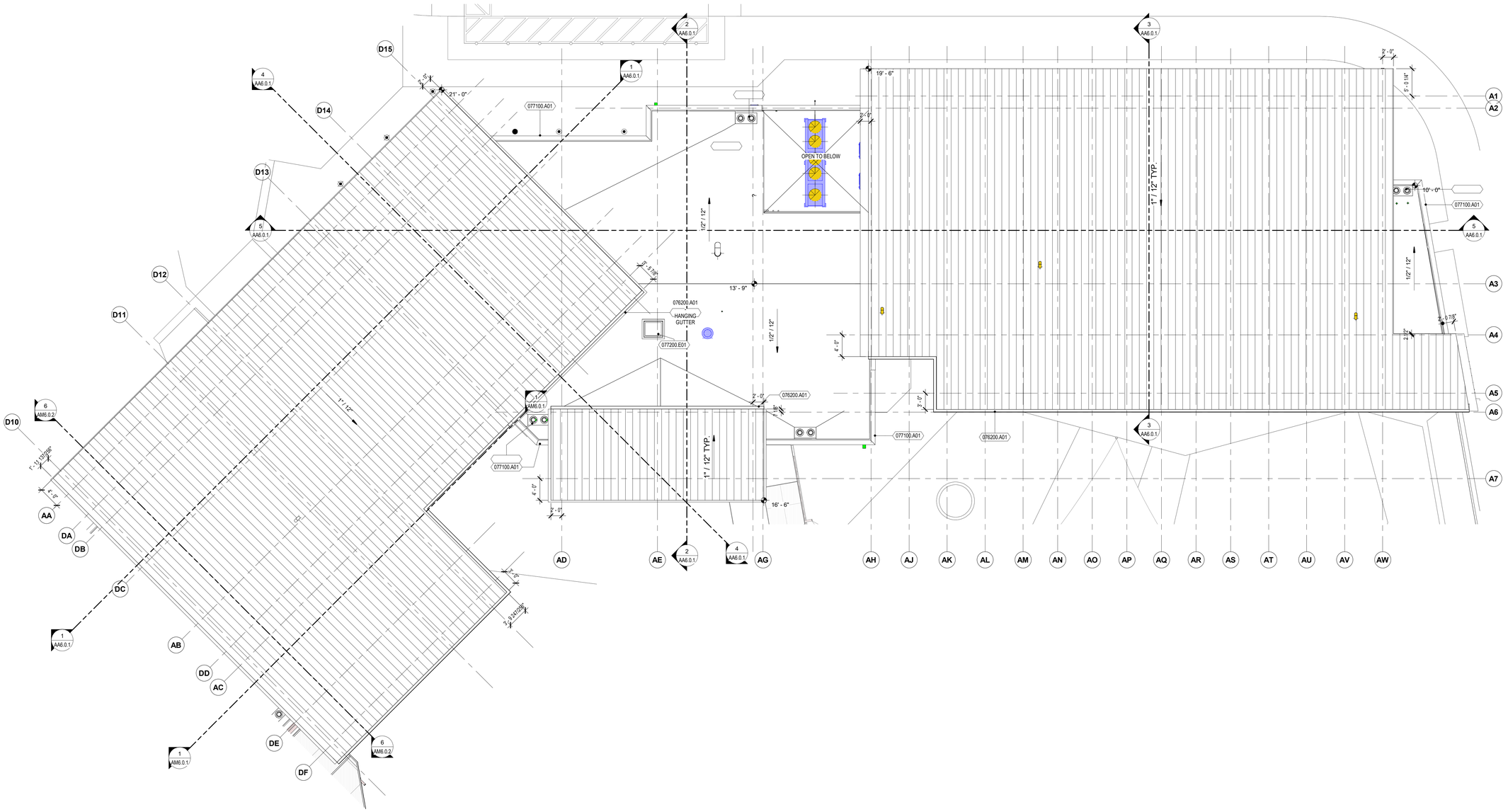
BUILDING A
REFLECTED CEILING PLAN

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
AA3.0.1

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2/24/2020 7:51:16 AM



1 ROOF PLAN - BLDG A

1/8" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT

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KEYNOTES

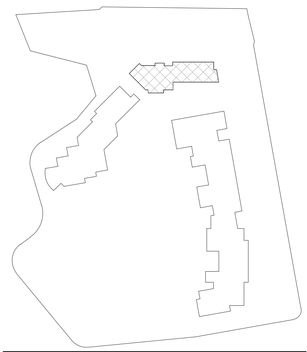
076200.A01	HANGING GUTTER
076200.A01 - HANGING GUTTER	
077100.A01	COPING
077200.E01	ROOF HATCH

LEGEND

- 30" ROOF WALKWAY, PER MANUFACTURER - 075423
- STANDING SEAM METAL ROOFING
- PVC SINGLE PLY ROOFING
- TRANSLUCENT FIBERGLASS CANOPY SYSTEM
- ROOF HATCH 36"x36"

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



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BUILDING A

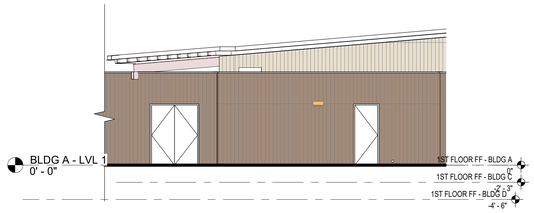
ROOF PLAN

NO. DATE ISSUE

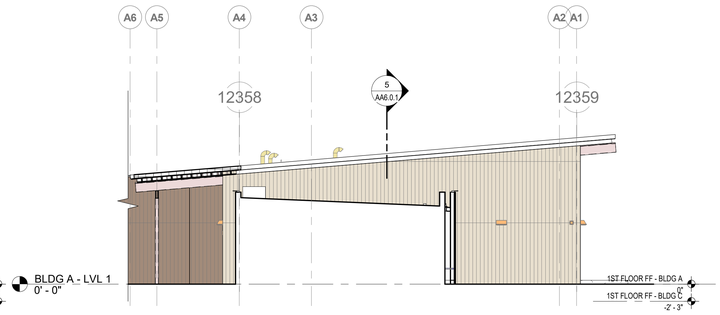
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DRAWING
AA4.0.1

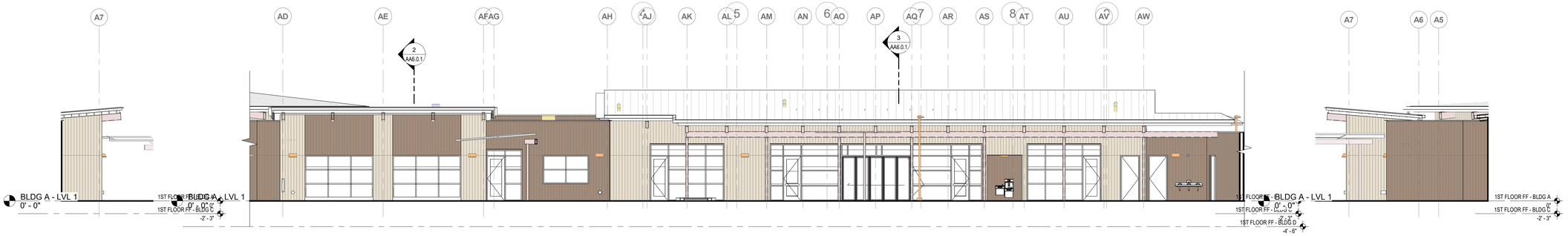
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2/24/2020 7:51:28 AM



2 BLDG A - 2 - ELEVATION E
1/8" = 1'-0"



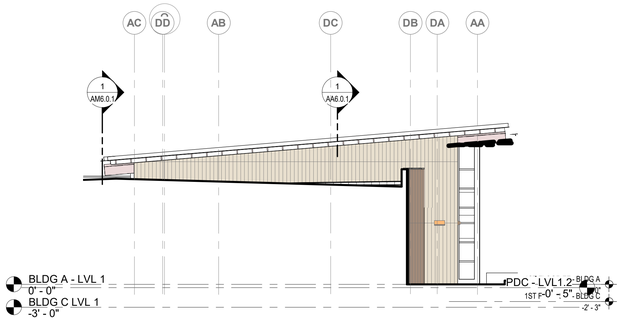
1 BLDG A - 1 - ELEVATION E
1/8" = 1'-0"



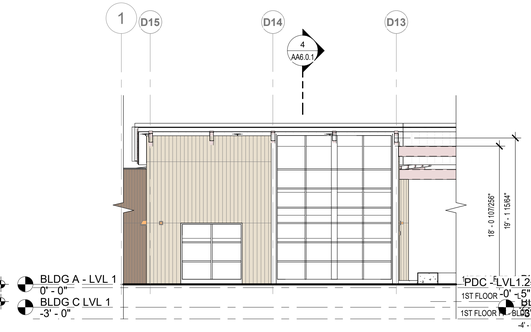
5 BLDG A - 5 - ELEVATION W
1/8" = 1'-0"

3 BLDG A - 3 - ELEVATION S
1/8" = 1'-0"

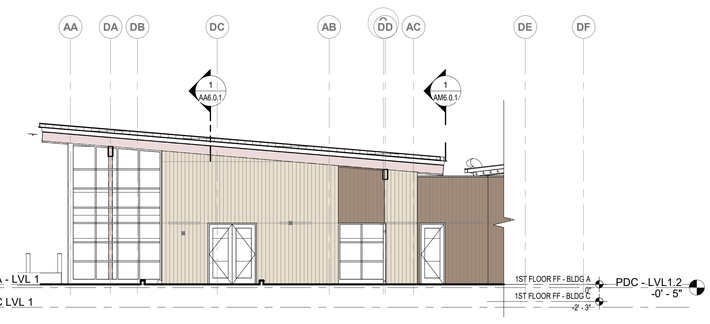
4 BLDG A - 4 - ELEVATION E
1/8" = 1'-0"



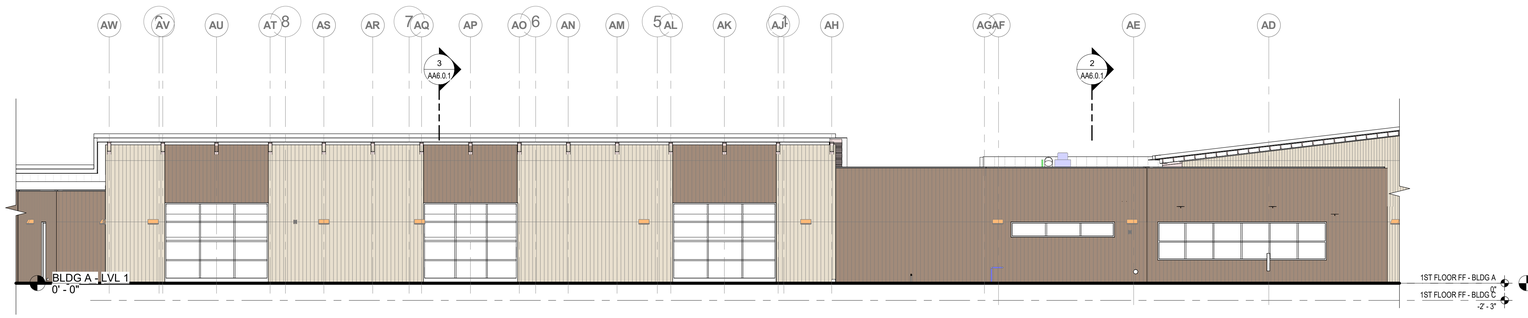
8 BLDG A - 8 - ELEVATION NE
1/8" = 1'-0"



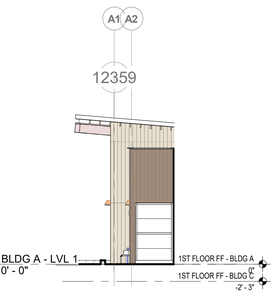
7 BLDG A - 7 - ELEVATION NW
1/8" = 1'-0"



6 BLDG A - 6 - ELEVATION SW
1/8" = 1'-0"



9 BLDG A - 9 - ELEVATION N
1/8" = 1'-0"



11 BLDG A - 11 - ELEVATION W
1/8" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

KEYNOTES

LEGEND

FIBER BASED COMPOSITE WOOD CLADDING - FIELD COLOR - LFC-1

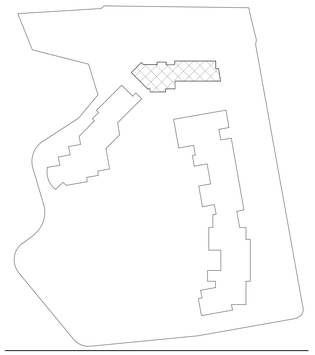
FIBER BASED COMPOSITE WOOD CLADDING - ACCENT COLOR - LFC-2

NOTES:

1 - SEE AND FOR PLASTER AND FIBER-CEMENT ACCESSORIES.

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



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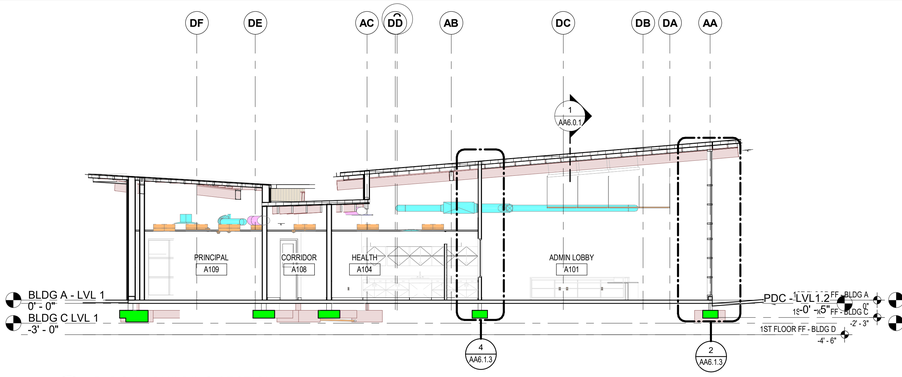
BUILDING A
EXTERIOR ELEVATIONS

NO. DATE ISSUE

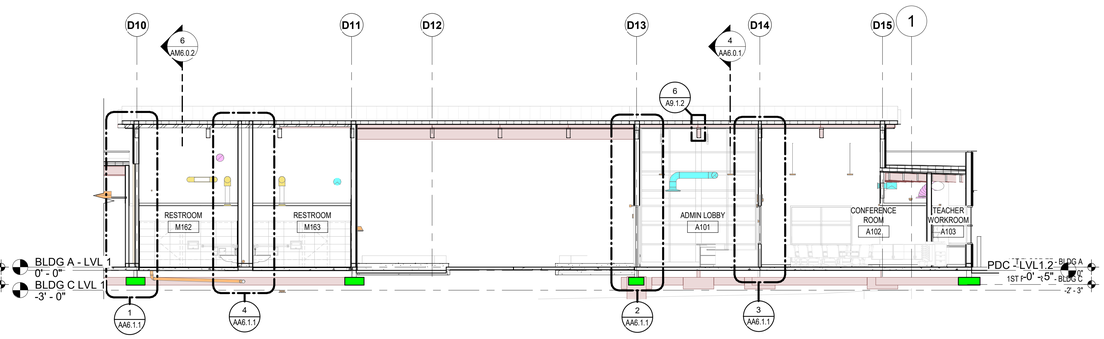
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DATE: 02/28/2020

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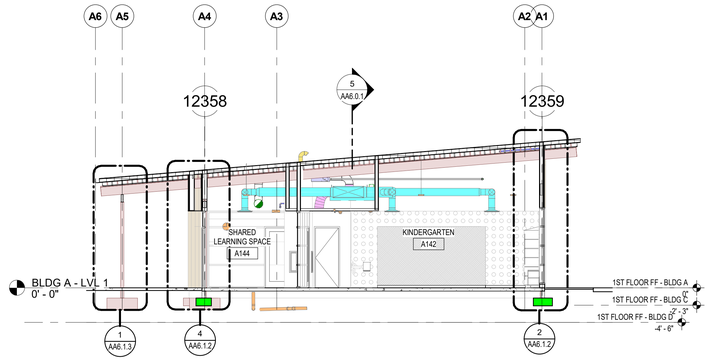
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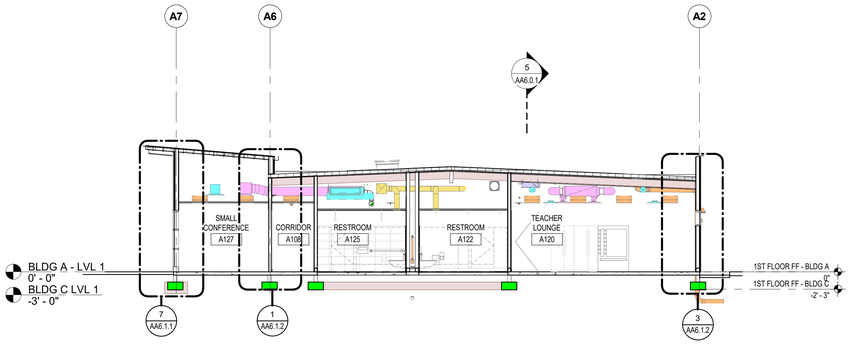
4 BLDG A - BUILDING SECTION 1
1/8" = 1'-0"



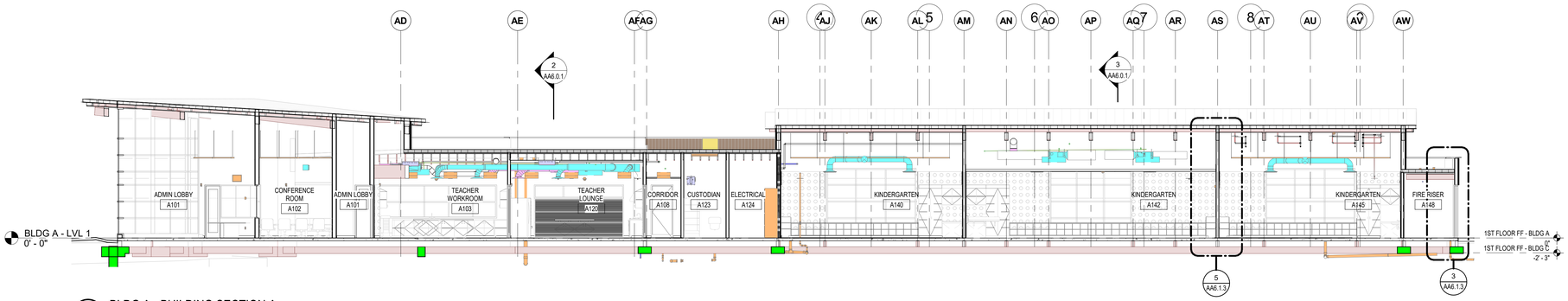
1 BLDG A-M - ROOF SECTION
1/8" = 1'-0"



3 BLDG A - BUILDING SECTION 3
1/8" = 1'-0"



2 BLDG A - BUILDING SECTION 2
1/8" = 1'-0"



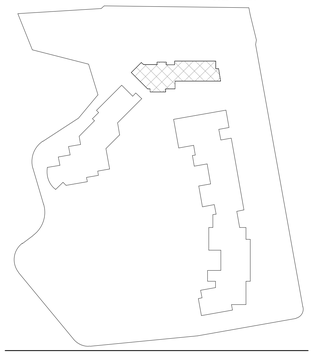
5 BLDG A - BUILDING SECTION A
1/8" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
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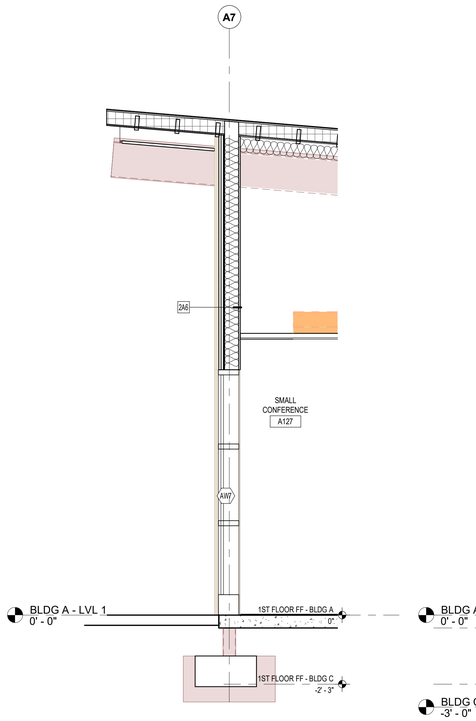
BUILDING A
BUILDING SECTION

NO. DATE ISSUE

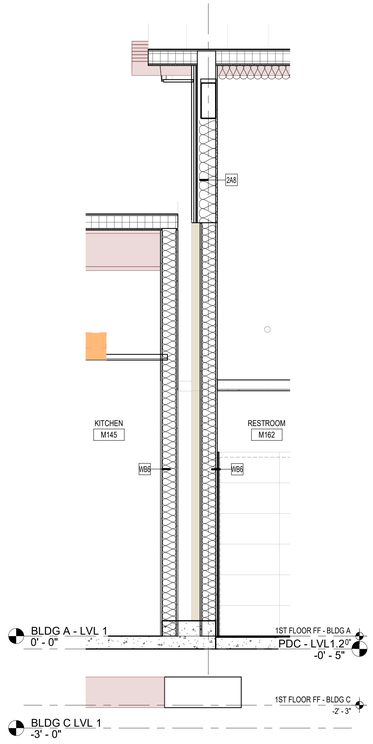
PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
AA6.0.1

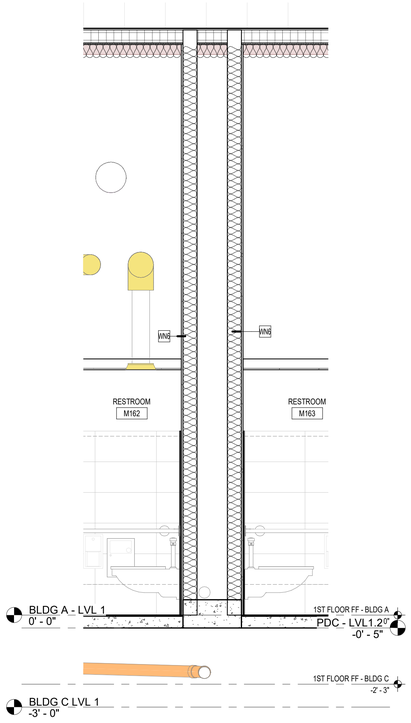
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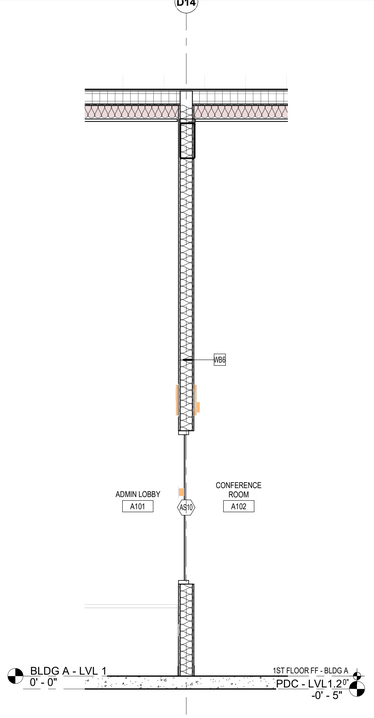
7 BLDG A - WALL SECTION 2.1
1/2" = 1'-0"



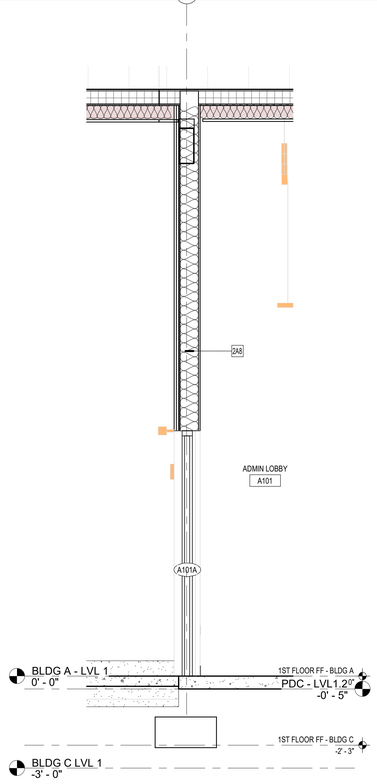
1 BLDG A - WALL SECTION 1.1
1/2" = 1'-0"



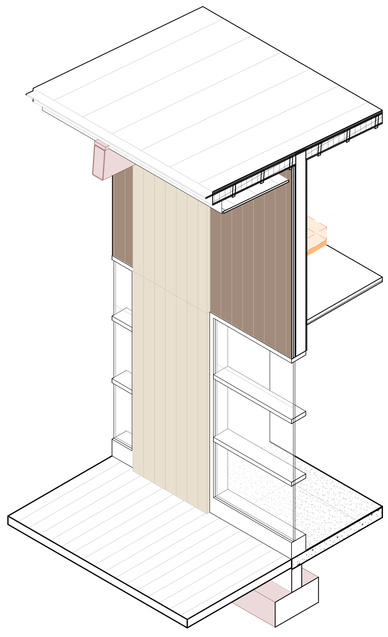
4 BLDG A - WALL SECTION 1.2
1/2" = 1'-0"



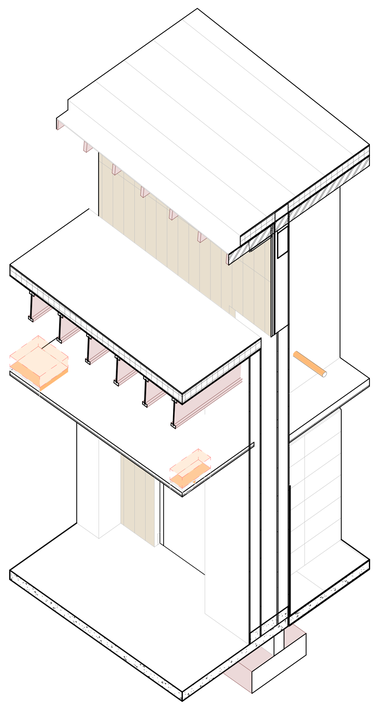
3 BLDG A - WALL SECTION 1.4
1/2" = 1'-0"



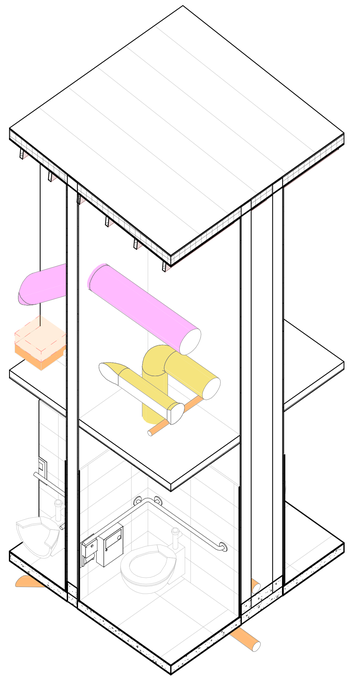
2 BLDG A - WALL SECTION 1.3
1/2" = 1'-0"



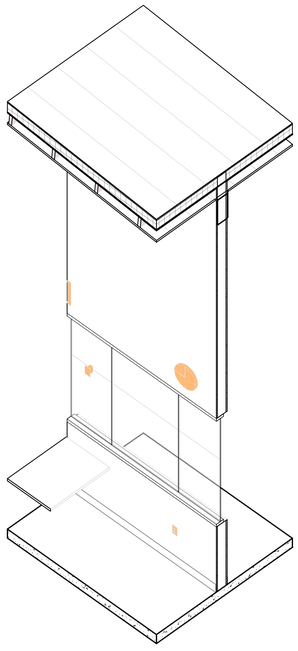
10 BLDG A - WALL SECTION 2.1 - ISO - FOR REFERENCE ONLY



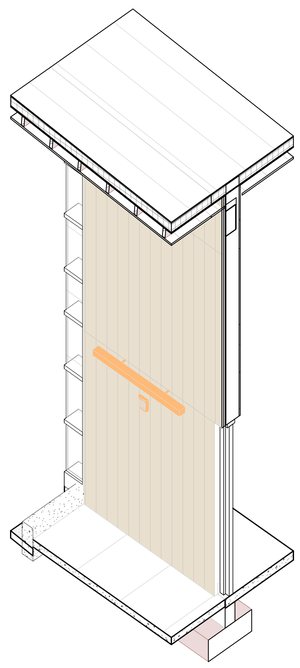
9 BLDG A - WALL SECTION 1.1 - ISO - FOR REFERENCE ONLY



6 BLDG A - WALL SECTION 1.2 - ISO - FOR REFERENCE ONLY



8 BLDG A-M - WALL SECTION 1.4 - ISO - FOR REFERENCE ONLY



5 BLDG A - WALL SECTION 1.3 - ISO - FOR REFERENCE ONLY

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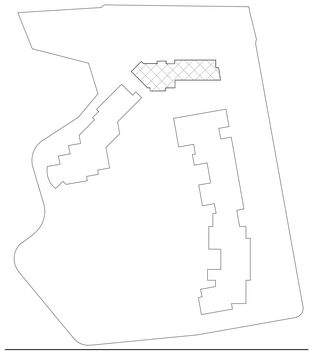
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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



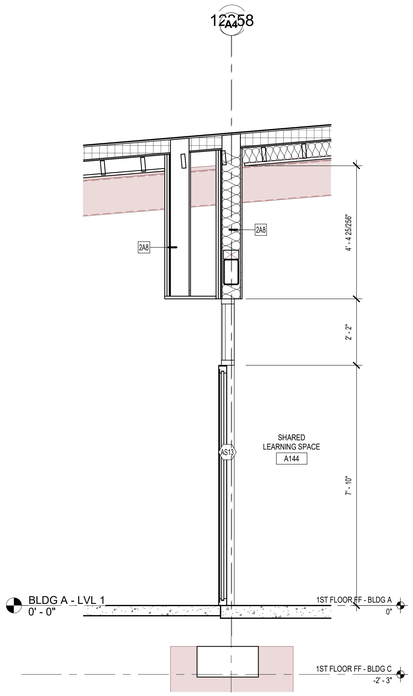
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BUILDING A
WALL SECTIONS

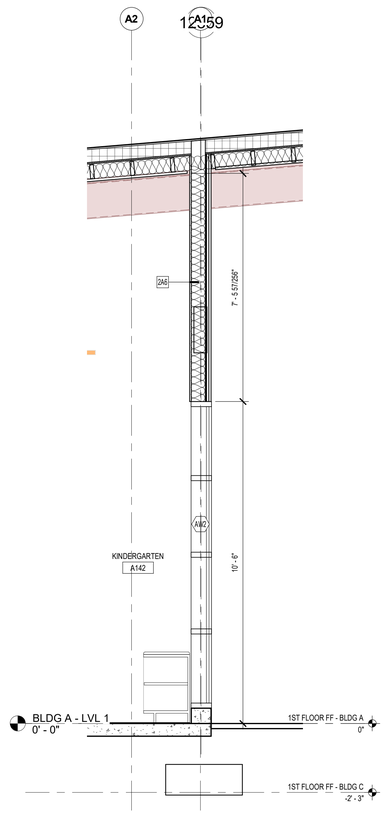
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PROJECT NO: 19009
DATE: 02/28/2020

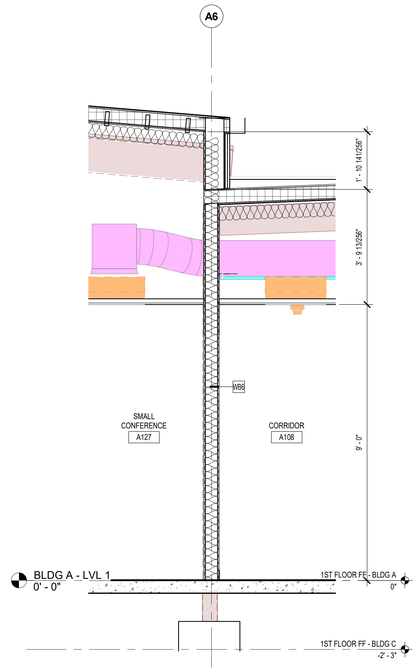
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AA6.1.1



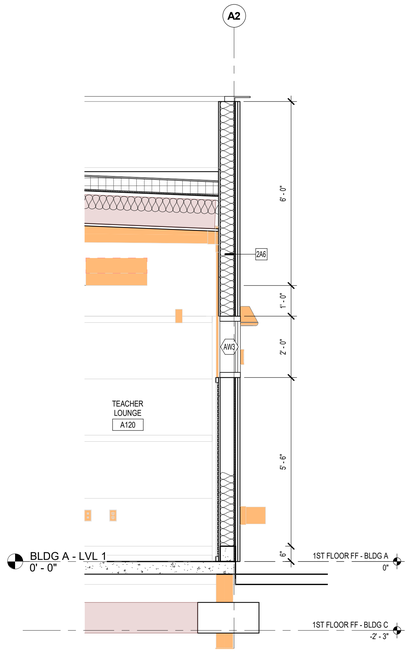
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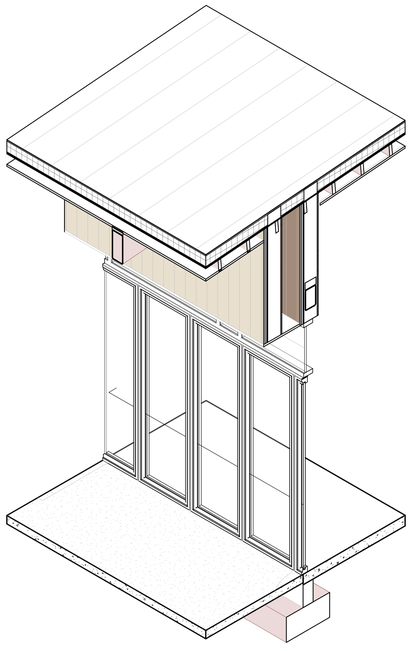
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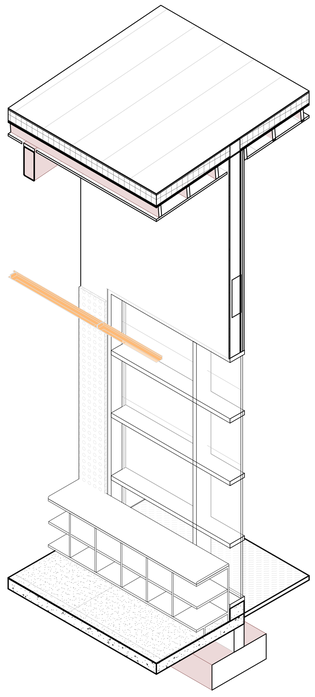
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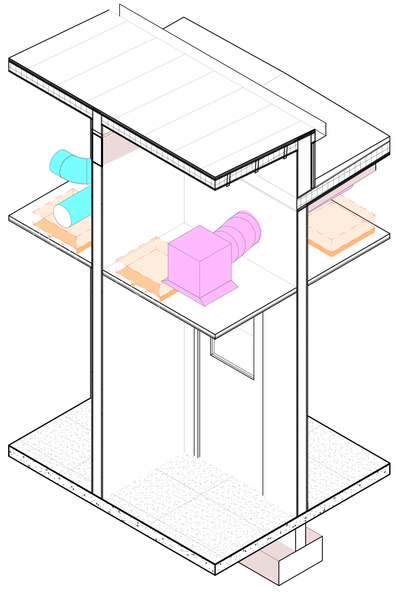
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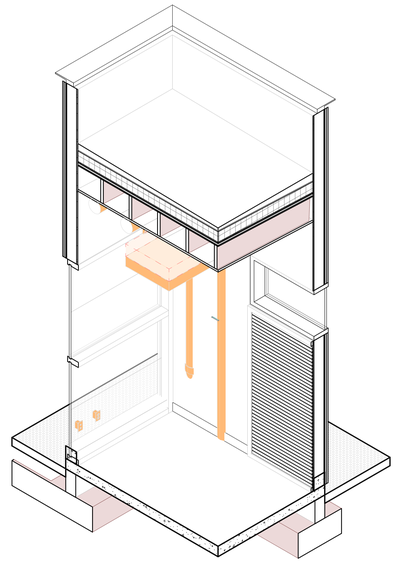
8 BLDG A - WALL SECTION 3.2 - ISO - FOR REFERENCE ONLY



7 BLDG A - WALL SECTION 3.4 - ISO - FOR REFERENCE ONLY



6 BLDG A - WALL SECTION 2.2 - ISO - FOR REFERENCE ONLY



5 BLDG A - WALL SECTION 2.3 - ISO - FOR REFERENCE ONLY

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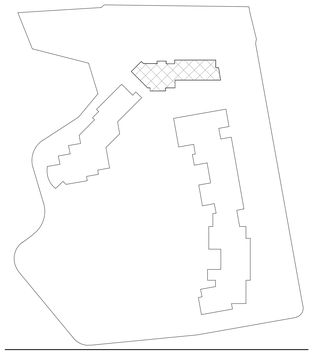
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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



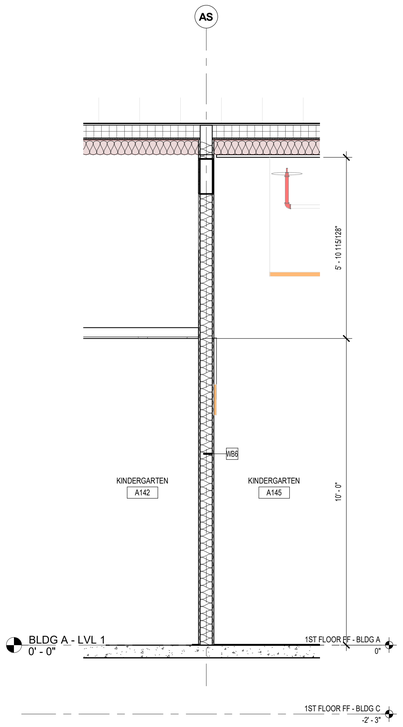
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BUILDING A
WALL SECTIONS

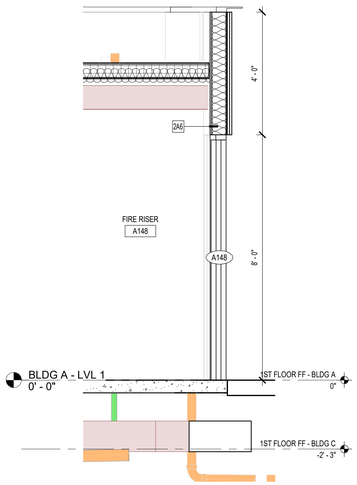
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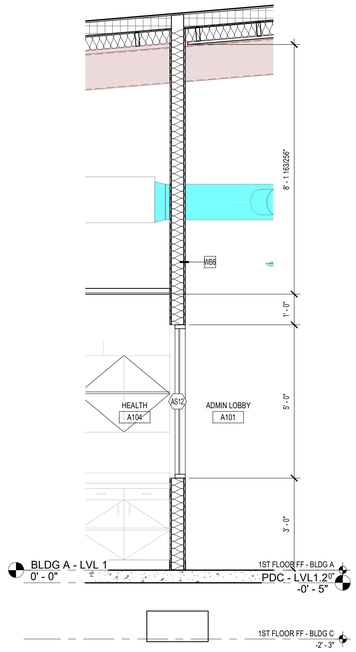
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AA6.1.2



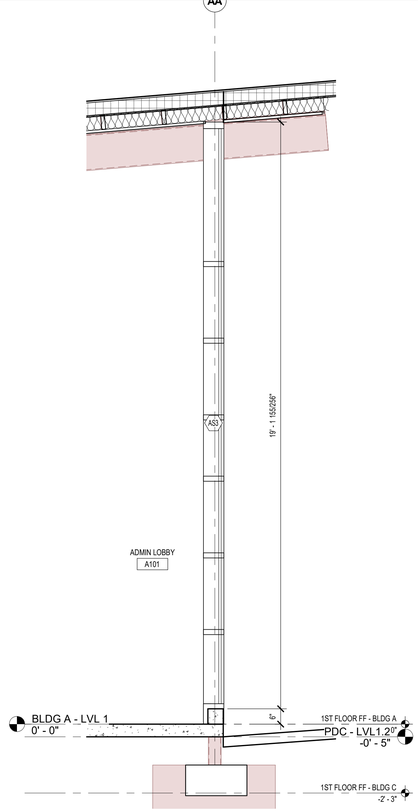
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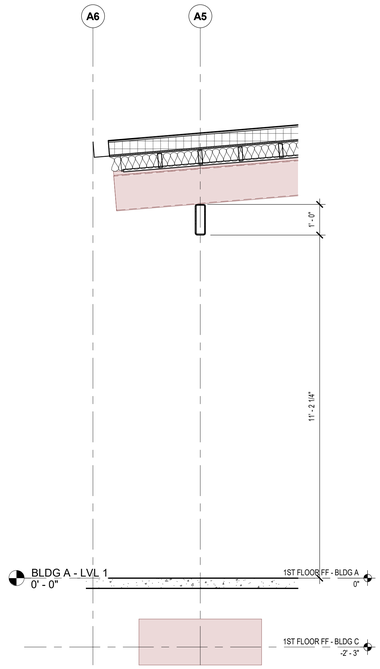
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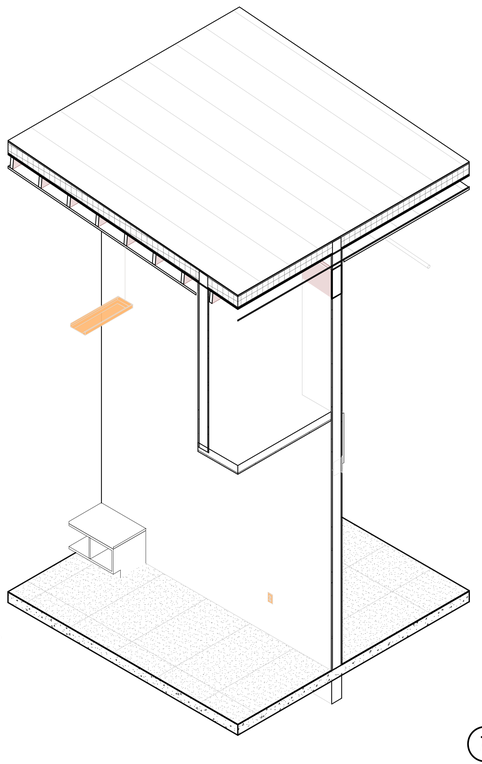
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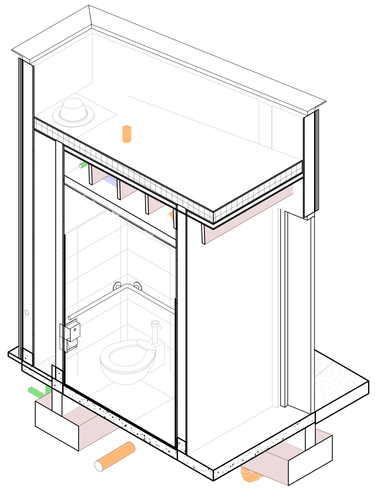
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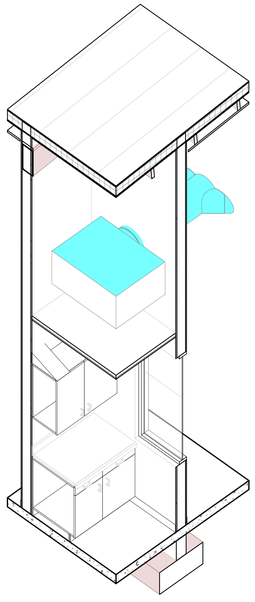
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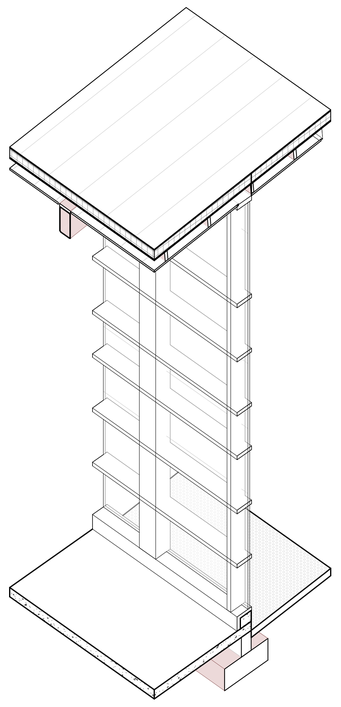
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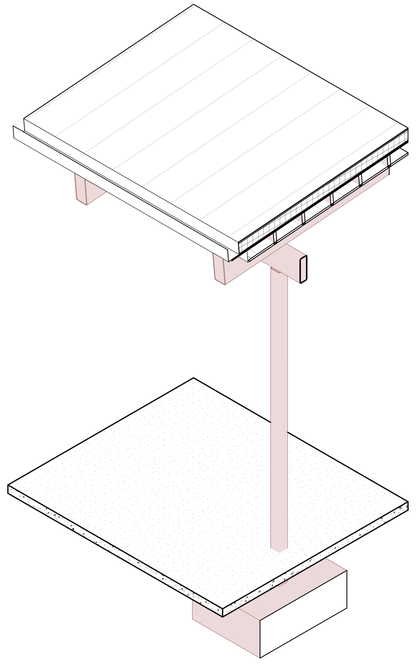
7 BLDG A - WALL SECTION 5.3 - ISO - FOR REFERENCE ONLY



8 BLDG A - WALL SECTION 4.1 - ISO - FOR REFERENCE ONLY



9 BLDG A - WALL SECTION 4.2 - ISO - FOR REFERENCE ONLY



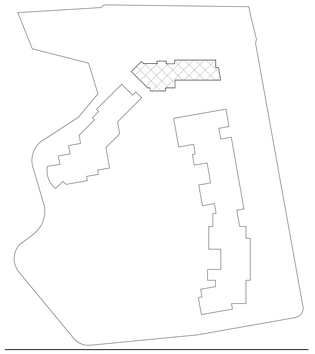
10 BLDG A - WALL SECTION 3.1 - ISO - FOR REFERENCE ONLY

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
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BUILDING A
WALL SECTIONS

NO. DATE ISSUE

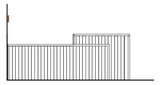
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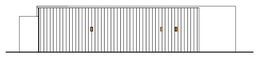
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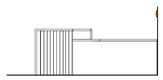
5 AA7.0.1 BLDG A - RECEPTION DESK E (A101)
1/4" = 1'-0"



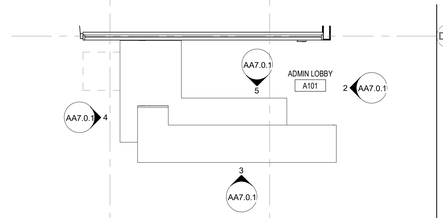
4 AA7.0.1 BLDG A - RECEPTION DESK N (A101)
1/4" = 1'-0"



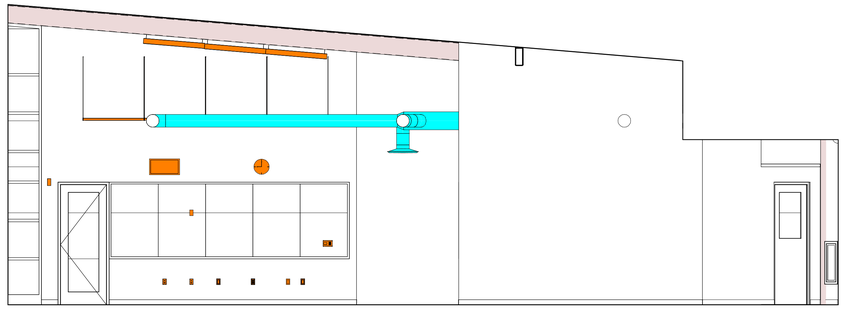
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1/4" = 1'-0"



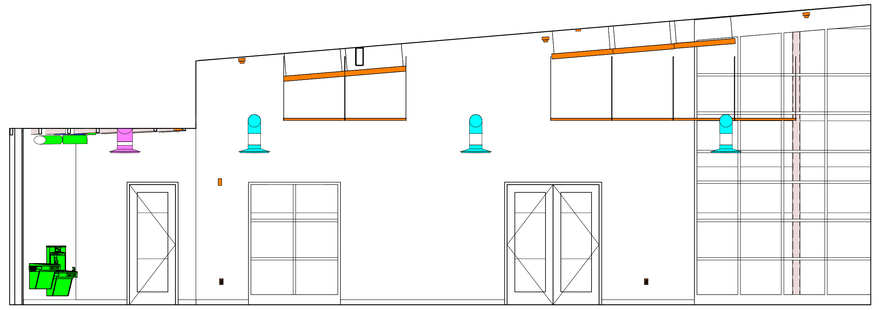
2 AA7.0.1 BLDG A - RECEPTION DESK S (A101)
1/4" = 1'-0"



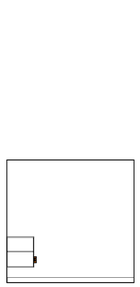
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1/4" = 1'-0"
DB DC



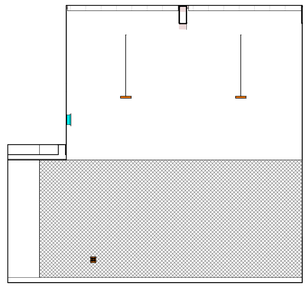
7 AA2.1.1 BLDG A - ADMIN LOBBY E (A101)
1/4" = 1'-0"



6 AA2.1.1 BLDG A - ADMIN LOBBY W (A101)
1/4" = 1'-0"

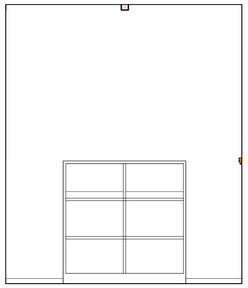


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1/4" = 1'-0"

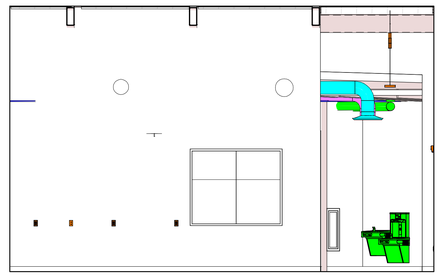


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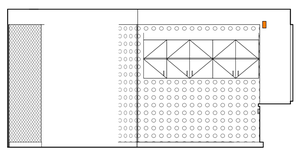
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1/4" = 1'-0"



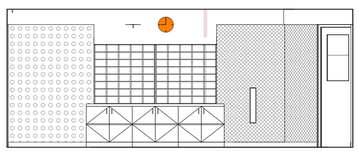
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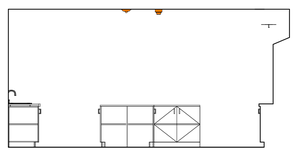
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1/4" = 1'-0"



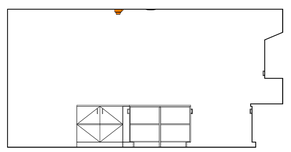
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1/4" = 1'-0"



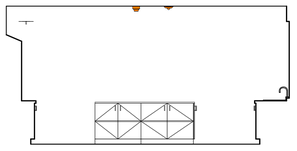
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1/4" = 1'-0"



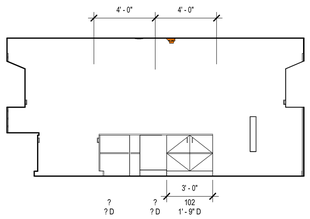
14 AA2.1.1 BLDG A - TEACHER WORKROOM E1 (A103)
1/4" = 1'-0"



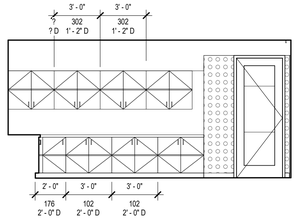
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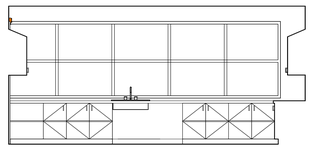
20 AA2.1.1 BLDG A - TEACHER WORKROOM W2 (A103)
1/4" = 1'-0"



19 AA2.1.1 BLDG A - TEACHER WORKROOM S2 (A103)
1/4" = 1'-0"



18 AA2.1.1 BLDG A - TEACHER WORKROOM E2 (A103)
1/4" = 1'-0"



17 AA2.1.1 BLDG A - TEACHER WORKROOM N2 (A103)
1/4" = 1'-0"

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DEL MAR HEIGHTS SCHOOL REBUILD

KEYNOTES

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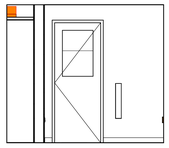
BUILDING A
ENLARGED PLANS & INTERIOR ELEVATIONS

NO. DATE ISSUE

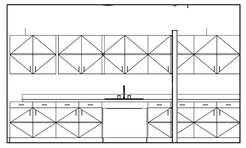
PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
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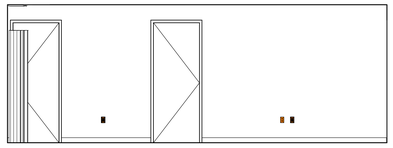
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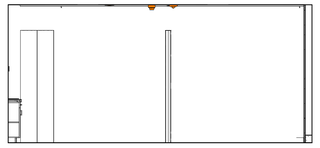
5 AA2.1.1 BLDG A - HEALTH S (A104)
1/4" = 1'-0"



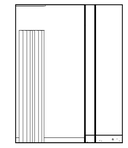
4 AA2.1.1 BLDG A - HEALTH W (A104)
1/4" = 1'-0"



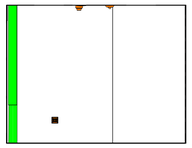
3 AA2.1.1 BLDG A - HEALTH E (A104)
1/4" = 1'-0"



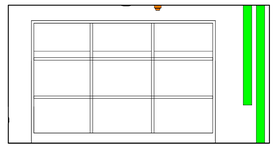
2 AA2.1.1 BLDG A - HEALTH N2 (A104)
1/4" = 1'-0"



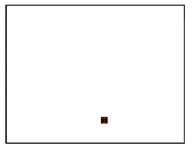
1 AA2.1.1 BLDG A - HEALTH N1 (A104)
1/4" = 1'-0"



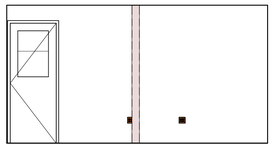
9 AA2.1.1 BLDG A - PRINCIPAL W (A109)
1/4" = 1'-0"



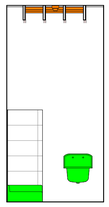
8 AA2.1.1 BLDG A - PRINCIPAL S (A109)
1/4" = 1'-0"



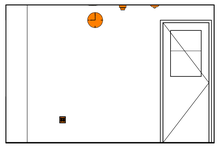
7 AA2.1.1 BLDG A - PRINCIPAL E (A109)
1/4" = 1'-0"



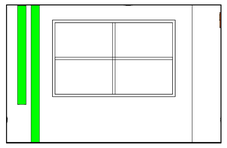
6 AA2.1.1 BLDG A - PRINCIPAL N (A109)
1/4" = 1'-0"



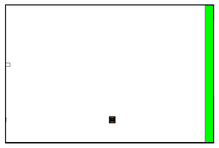
14 AA2.1.1 BLDG A - CUSTODIAN N (A123)
1/4" = 1'-0"



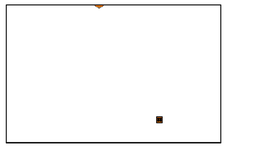
13 AA2.1.1 BLDG A - PSYCH W (A128)
1/4" = 1'-0"



12 AA2.1.1 BLDG A - PSYCH S (A128)
1/4" = 1'-0"



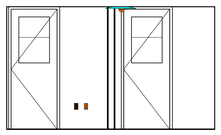
11 AA2.1.1 BLDG A - PSYCH E (A128)
1/4" = 1'-0"



10 AA2.1.1 BLDG A - PSYCH N (A128)
1/4" = 1'-0"



18 AA2.1.1 BLDG A - RECORDS STORAGE W (A107)
1/4" = 1'-0"



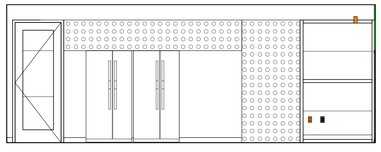
17 AA2.1.1 BLDG A - RECORDS STORAGE S (A107)
1/4" = 1'-0"



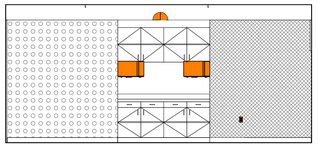
16 AA2.1.1 BLDG A - RECORDS STORAGE E (A107)
1/4" = 1'-0"



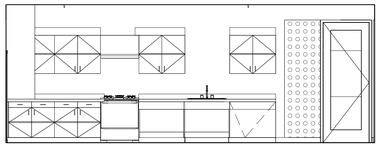
15 AA2.1.1 BLDG A - RECORDS STORAGE N (A107)
1/4" = 1'-0"



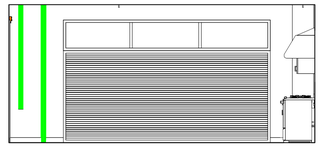
22 AA2.1.1 BLDG A - TEACHER LOUNGE W (A120)
1/4" = 1'-0"



21 AA2.1.1 BLDG A - TEACHER LOUNGE S (A120)
1/4" = 1'-0"



20 AA2.1.1 BLDG A - TEACHER LOUNGE E (A120)
1/4" = 1'-0"



19 AA2.1.1 BLDG A - TEACHER LOUNGE N (A120)
1/4" = 1'-0"

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KEYNOTES

BakerNowicki design studio
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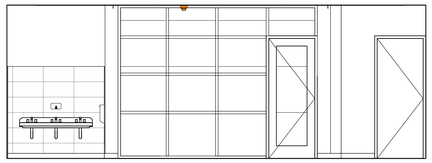
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NO. DATE ISSUE

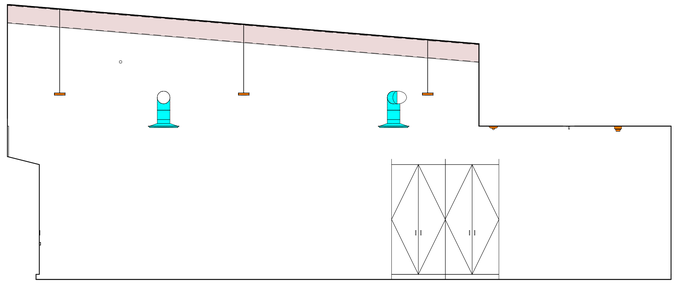
PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
AA7.0.2

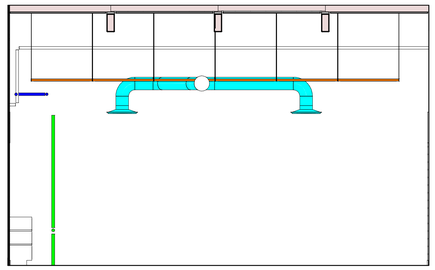
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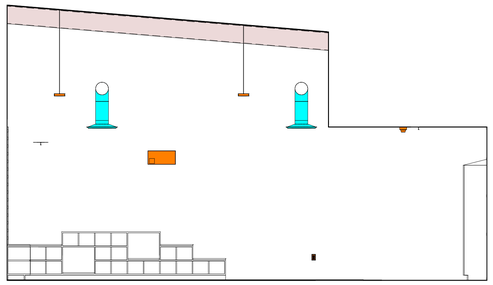
3 AA2.1.1 BLDG A - KINDERGARTEN S (A140)
1/4" = 1'-0"



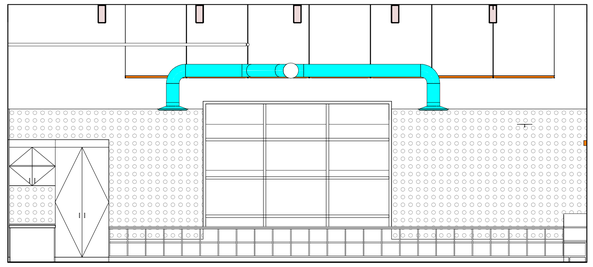
2 AA2.1.1 BLDG A - KINDERGARTEN E (A140)
1/4" = 1'-0"



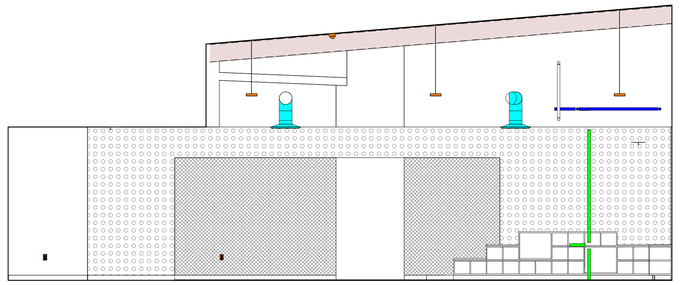
1 AA2.1.1 BLDG A - KINDERGARTEN N (A140)
1/4" = 1'-0"



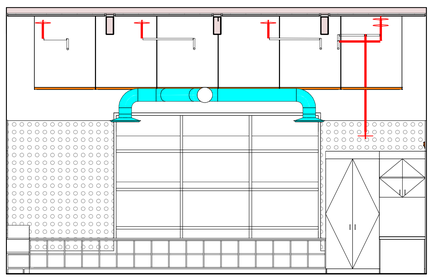
6 AA2.1.1 BLDG A - KINDERGARTEN E (A142)
1/4" = 1'-0"



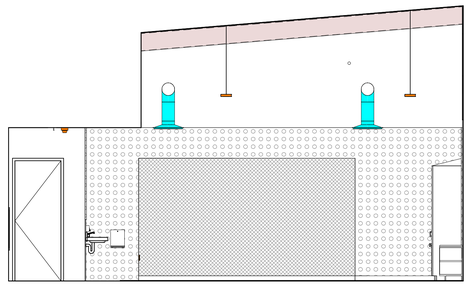
5 AA2.1.1 BLDG A - KINDERGARTEN N (A142)
1/4" = 1'-0"



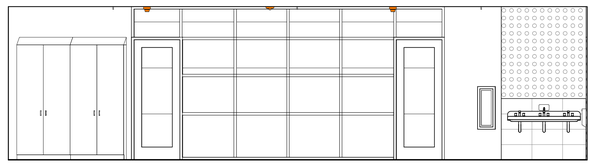
4 AA2.1.1 BLDG A - KINDERGARTEN W (A140)
1/4" = 1'-0"



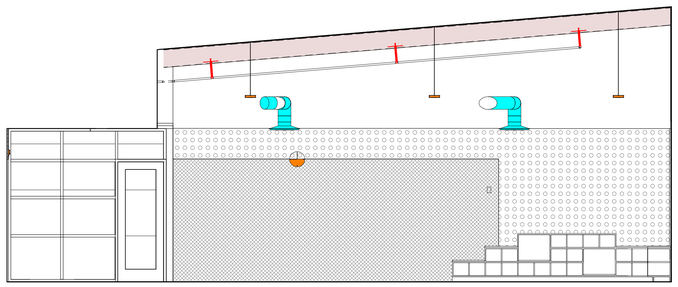
9 AA2.1.1 BLDG A - KINDERGARTEN N (A145)
1/4" = 1'-0"



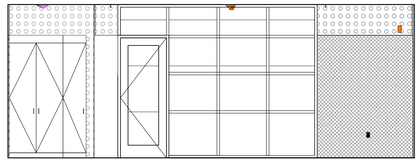
8 AA2.1.1 BLDG A - KINDERGARTEN W (A142)
1/4" = 1'-0"



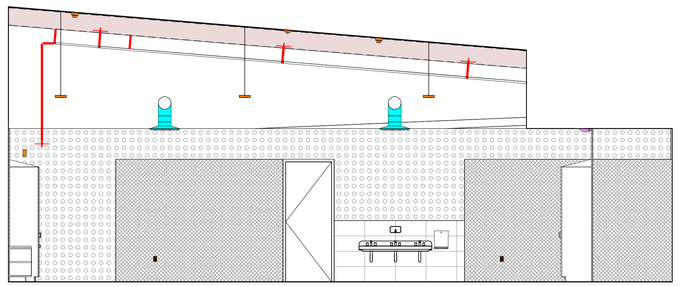
7 AA2.1.1 BLDG A - KINDERGARTEN S (A142)
1/4" = 1'-0"



12 AA2.1.1 BLDG A - KINDERGARTEN W (A145)
1/4" = 1'-0"



11 AA2.1.1 BLDG A - KINDERGARTEN S (A145)
1/4" = 1'-0"



10 AA2.1.1 BLDG A - KINDERGARTEN E (A145)
1/4" = 1'-0"

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KEYNOTES

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731 Ninth Avenue, Suite A, San Diego, California 92101
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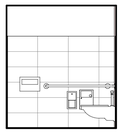
PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
AA7.0.3

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2 BLDG A - INT ELEV - A116 N
1/4" = 1'-0"



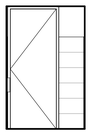
7 BLDG A - INT ELEV - A116 E
1/4" = 1'-0"



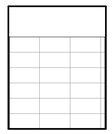
6 BLDG A - INT ELEV - A116 S
1/4" = 1'-0"



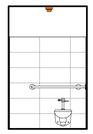
5 BLDG A - INT ELEV - A116 W
1/4" = 1'-0"



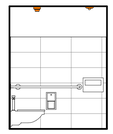
8 BLDG A - INT ELEV - A105 N
1/4" = 1'-0"



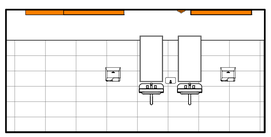
9 BLDG A - INT ELEV - A105 E
1/4" = 1'-0"



10 BLDG A - INT ELEV - A105 S
1/4" = 1'-0"



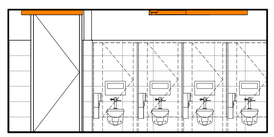
11 BLDG A - INT ELEV - A105 W
1/4" = 1'-0"



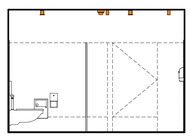
12 BLDG A - INT ELEV - A119 N
1/4" = 1'-0"



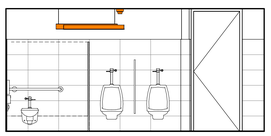
18 BLDG A - INT ELEV - A119 E
1/4" = 1'-0"



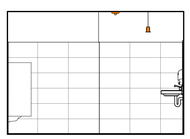
13 BLDG A - INT ELEV - A119 S
1/4" = 1'-0"



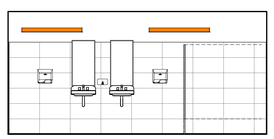
20 BLDG A - INT ELEV - A119 W
1/4" = 1'-0"



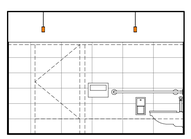
21 BLDG A - INT ELEV - A118 N
1/4" = 1'-0"



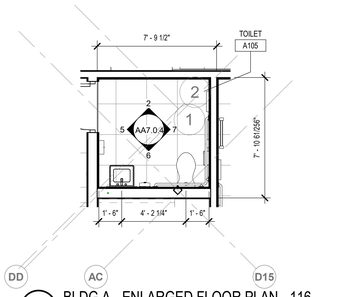
22 BLDG A - INT ELEV - A118 E
1/4" = 1'-0"



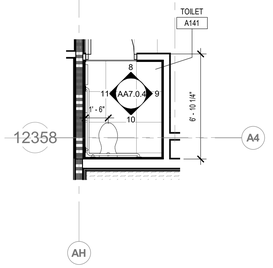
23 BLDG A - INT ELEV - A118 S
1/4" = 1'-0"



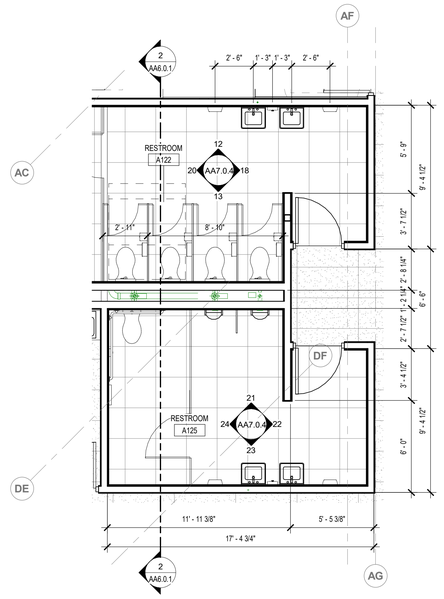
24 BLDG A - INT ELEV - A118 W
1/4" = 1'-0"



1 BLDG A - ENLARGED FLOOR PLAN - 116
1/4" = 1'-0"



3 BLDG A - ENLARGED FLOOR PLAN - KINDER TOILET TYP.
1/4" = 1'-0"



4 BLDG A - ENLARGED FLOOR PLAN - RESTROOM
1/4" = 1'-0"

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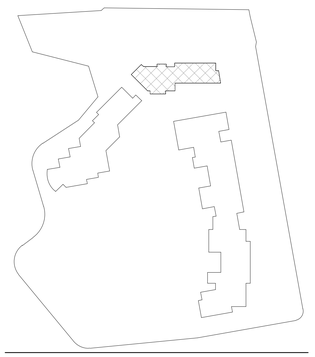
KEYNOTES

LEGEND

- CPT-1 - CARPET TILE
- CT-1 - PORCELAIN TILE - INTERIOR FLOOR
- CT-2 - PORCELAIN TILE - INTERIOR FLOOR
- CT-3 - PORCELAIN TILE - INTERIOR WALL
- CT-4 - PORCELAIN TILE - INTERIOR WALL
- PC-1 - POLISHED CONCRETE
- LVT-1 - LVT
- PF-1 - PAINT FINISH - SEE FINISH PLAN FOR MORE INFORMATION
- VCTWP - VINYL COVER TACKABLE WALL PANEL
- VWC-1 - WRITABLE VINYL WALL COVERING

DISCIPLINE COLOR LEGEND

- ELECTRICAL
- FIRE PROTECTION - SPRINKLER
- MECHANICAL - EQUIPMENT
- MECHANICAL - SANITARY VENT
- MECHANICAL - RETURN
- MECHANICAL - EXHAUST
- MECHANICAL - SUPPLY
- PLUMBING - STORM DRAIN
- STRUCTURAL
- PLUMBING - DOMESTIC COLD WATER



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BUILDING A
ENLARGED RESTROOM PLANS & INTERIOR ELEVATIONS

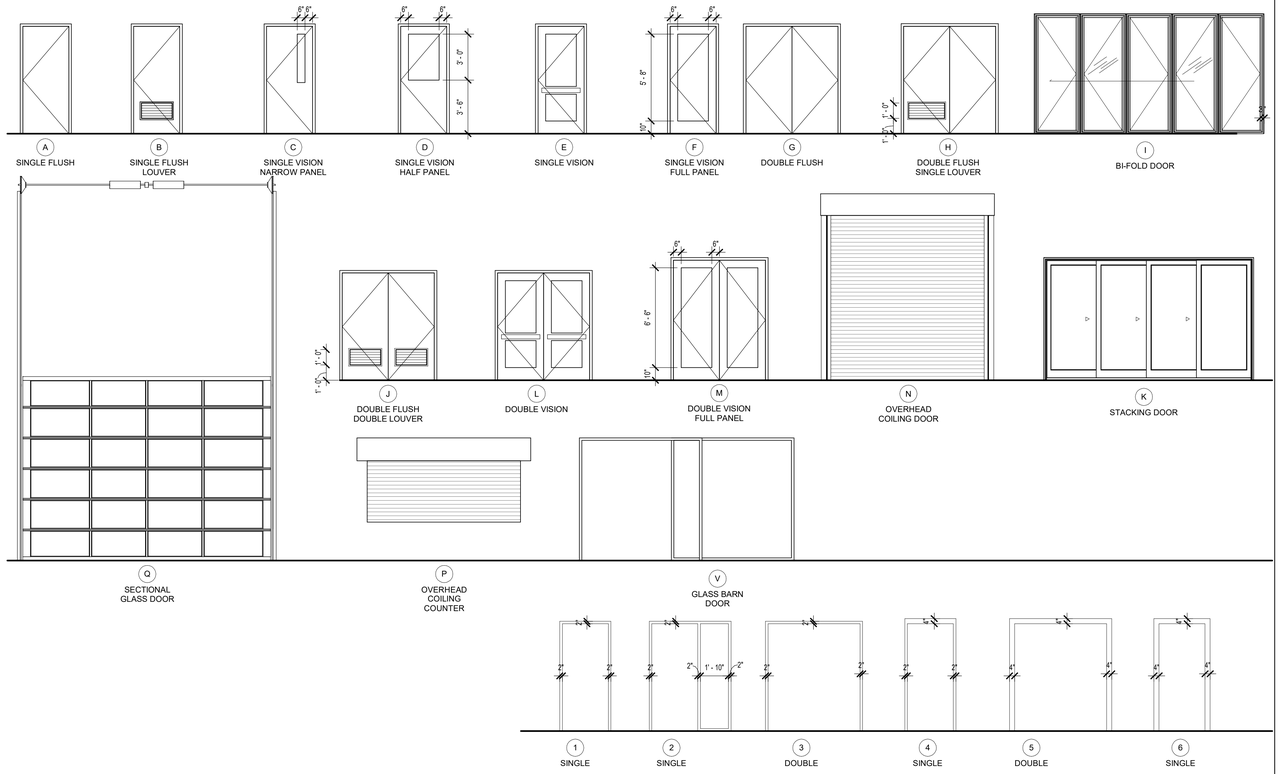
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DATE: 02/28/2020

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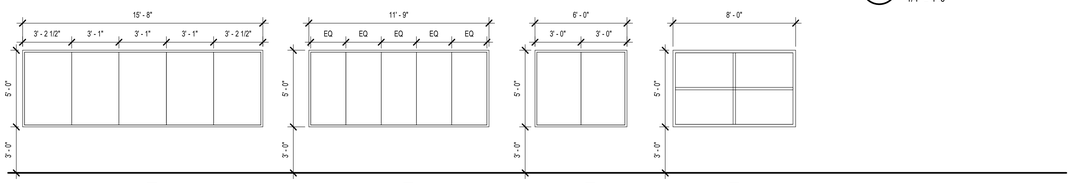
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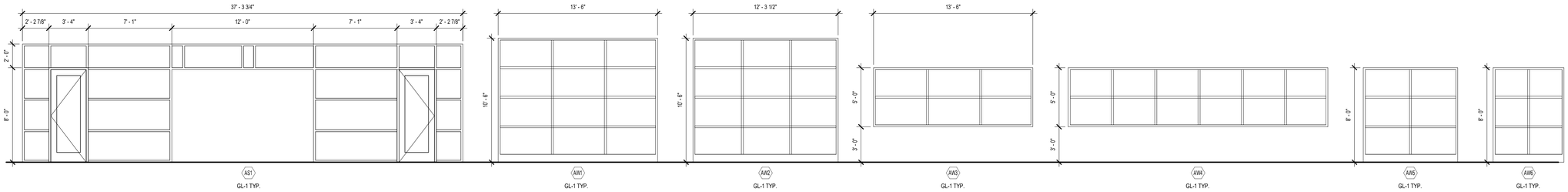
SCHEDULE-DOOR & GATE - A

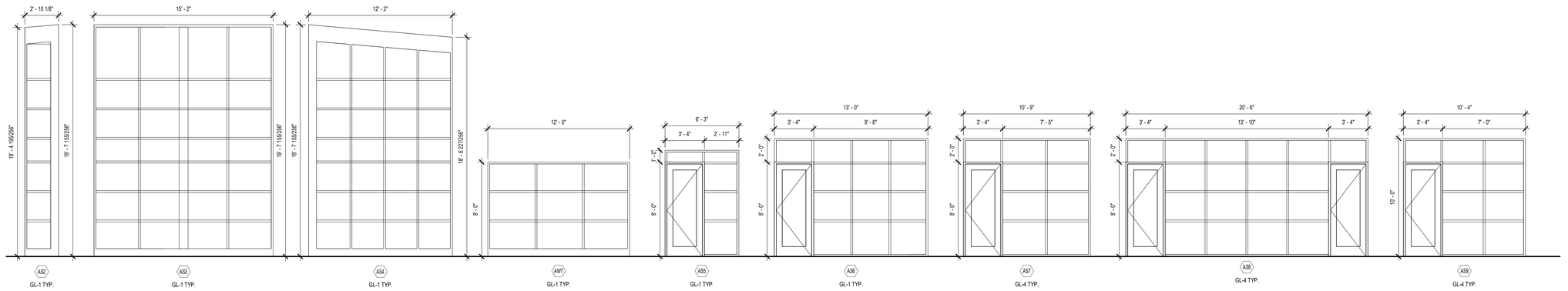
NO.	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MAT.	DOOR FIN.	DOOR GLASS	FRAME TYPE	FRAME MAT.	FRAME FIN.	OPENING LABEL	DETAILS HEAD	DETAILS JAMB	DETAILS THRESH	PANIC HDW	Hardware Group	REMARKS
A101A	6' - 0"	7" - 10"	M	ALUM	FF	GL-1	1	ALUM	FIN							11
A101B	3' - 0"	7" - 10"	F	ALUM	FF	GL-1	1	ALUM	FF							11
A102	3' - 0"	7" - 10"	F	WD	FF	GL-1	1	HM	FF							
A103	3' - 0"	7" - 10"	D	WD	FF	GL-1	1	HM	FF							
A104	3' - 0"	7" - 10"	D	WD	FF	GL-1	1	HM	FF							
A105	3' - 0"	7" - 10"	A	WD	FF	-	1	HM	FF							
A106	3' - 0"	7" - 10"	A	WD	FF	-	1	HM	FF							
A107	3' - 0"	7" - 10"	D	WD	FF	-	1	HM	FF							
A108	3' - 0"	7" - 10"	F	ALUM	FF	GL-1	1	ALUM	FF							11
A109	3' - 0"	7" - 10"	D	WD	FF	GL-1	1	HM	FF							
A120A	3' - 0"	7" - 10"	F	WD	FF	GL-1	1	HM	FF							
A120B	3' - 0"	7" - 10"	F	WD	FF	GL-1	1	HM	FF							
A121	3' - 0"	7" - 10"	A	HM	PF	-	1	HM	PF							11
A122	3' - 0"	7" - 10"	A	WD	FF	-	1	HM	FF							
A123	3' - 0"	7" - 10"	A	WD	FF	-	1	HM	FF							
A124	5' - 0"	7" - 10"	G	WD	FF	-	1	HM	FF							
A125	3' - 0"	7" - 10"	A	WD	FF	-	1	HM	FF							
A126	3' - 0"	7" - 10"	A	WD	FF	-	1	HM	FF							
A127	3' - 0"	7" - 10"	D	WD	FF	GL-1	1	HM	FF							
A128	3' - 0"	7" - 10"	D	WD	FF	GL-1	1	HM	FF							
A140A	3' - 0"	7" - 10"	F	ALUM	FF	GL-1	1	ALUM	FF							11
A140B	3' - 0"	7" - 10"	F	WD	FF	GL-1	1	ALUM	FF							
A141	3' - 0"	7" - 10"	A	WD	FF	-	1	HM	FF							
A142A	3' - 0"	7" - 10"	F	WD	FF	GL-1	1	ALUM	FF							
A142B	3' - 0"	7" - 10"	F	WD	FF	GL-1	1	ALUM	FF							
A142C	3' - 0"	7" - 10"	A	WD	FF	-	1	HM	FF							
A144A	3' - 0"	7" - 10"	E	ALUM	FF	GL-1	1	ALUM	FF					Yes		11
A144B	3' - 0"	7" - 10"	E	ALUM	FF	GL-1	1	ALUM	FF					Yes		11
A144C	12' - 0"	7" - 10"	I	ALUM	FF	GL-1	1	ALUM	FF							11
A145	3' - 0"	7" - 10"	F	ALUM	FF	GL-1	1	ALUM	FF							11
A145B	3' - 0"	7" - 10"	F	WD	FF	GL-1	1	ALUM	FF							
A146	3' - 0"	7" - 10"	A	HM	PF	-	1	HM	PF							11
A147	3' - 0"	7" - 10"	A	WD	FF	-	1	HM	FF							
A148	3' - 0"	7" - 10"	A	HM	PF	-	1	HM	PF							11
A149	3' - 0"	7" - 10"	A	HM	PF	-	1	HM	PF							11



LEGEND-DOORS
1/4" = 1'-0"







BLDG A - WINDOW LEGEND
1/4" = 1'-0"

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DEL MAR HEIGHTS SCHOOL REBUILD

DOOR SCHEDULE REMARKS

1. NOT USED
2. 90 DEGREE INHIBITOR/ DOOR STOP
3. 1" UNDERCUT
4. MAGNETIC HOLD OPEN
5. DOOR BY FOLDING PARTITION MANUFACTURER.
6. DOOR BELL
7. PEEP HOLE
8. STC - 40 SOUND CONTROL DOOR - 083473
9. STC - 53 SOUND CONTROL DOOR - 083473
10. FIRE RATED ENTRANCE DOOR SYSTEM - 084413
11. PROVIDE 20 MINUTE RATED DOORS.

GENERAL NOTES

1. DIMENSIONS TO EDGE MULLIONS ARE TO FACE OF FRAME.
2. FOR TYPICAL EXTERIOR WINDOW FLASHING DETAIL, SEE
3. REFERENCE WINDOW TYPES FOR DOOR / WINDOW FRAME COMBINATIONS
4. WHEN WINDOW TYPES ARE IMMEDIATELY ADJACENT ONLY ONE VERTICAL MULLION OCCURS, REFERENCE PLANS AND ELEVATIONS, AND WINDOW DETAILS.
5. REFERENCE FINISH SCHEDULES FOR WINDOW SHADE LOCATIONS
6. INSTALL WINDOW SHADES PER TYPICAL DETAILS # 14, 15 & 16 / A9.4.1
7. PROVIDE DRIP EDGE AT EXTERIOR ALUMINUM DOOR HEADS, BY DOOR MANUFACTURER, FINISH TO MATCH.
8. ALL CLASSROOM DOORS STC - 31 - 081416
9. FOR DOOR HARDWARE TYPES, REFER TO SPEC SECTION 087100
10. PROVIDE BACKING PER 8/A9.9.1 AT ALL WALL MOUNTED DOOR STOPS.

SCHEDULE NOTES

GLASS TYPES

GL-1	INSULATED UNIT, TINTED, TEMPERED - 088000
GL-2	1/2", CLEAR, TEMPERED - 088000
GL-3	1/4" SINGLE VISION, TINTED, TEMPERED - 088000
GL-4	1/4" SINGLE VISION, CLEAR, TEMPERED - 088000
GL-5	SPANDREL, TEMPERED - 088000
GL-6	ACOUSTICAL, LAMINATED, CLEAR - 088000
GL-7	INSULATED UNIT, LAMINATED, TRANSPARENT COLORED - 088000
COLOR 1	
COLOR 2	
GL-8	FIRE RATED GLASS - 60 MIN - 088000
GL-9	FIRE RATED GLASS - 45 MIN - 088000
GL-10	INSULATED UNIT, LAMINATED, OPAQUE COLORED - 088000

MATERIALS

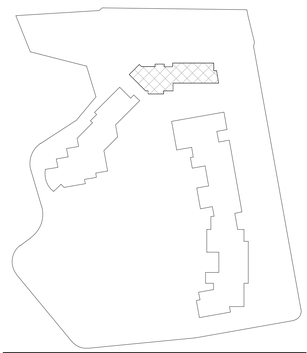
ALUM	ALUMINUM
HM	HOLLOW METAL
WD	WOOD
STL	STEEL
FG	FULL GLASS
SS	STAINLESS STEEL
FF	FACTORY FINISH

WINDOW FRAME TYPES

SF-1	ALUMINUM STOREFRONT - CENTER GLAZING - 084113
CW-1	ALUMINUM CURTAIN WALL - 6" DEEP - 084413
CW-2	ALUMINUM CURTAIN WALL - 7 1/2" DEEP - 084413
CW-3	ALUMINUM CURTAIN WALL - 5" DEEP - 60 MIN RATED - 084413

WINDOW FASTENING

1. WINDOW FASTENERS - FASTENER SPACING: WITHIN 6" OF VERTICAL JAMBS, WITHIN 6" EA. SIDE OF VERTICAL MULLIONS, AND EVERYWHERE ELSE 24" O.C. BETWEEN VERTICAL AND HORIZONTAL SPACING. FOR END REACTIONS UP TO 500 LBS FOR TYPE OF ATTACHMENT SEE NOTES 2 - 3.
2. WINDOW FASTENER @ STEEL STUDS: 1/4" - 20 SAE GRADE 2 - LENGTHS TO ACCOMMODATE STRUCTURAL SUBSTRATE CONDITIONS.
3. WINDOW FASTENER @ STEEL MEMBER: HILTI X-U NAIL (ESR 2269).



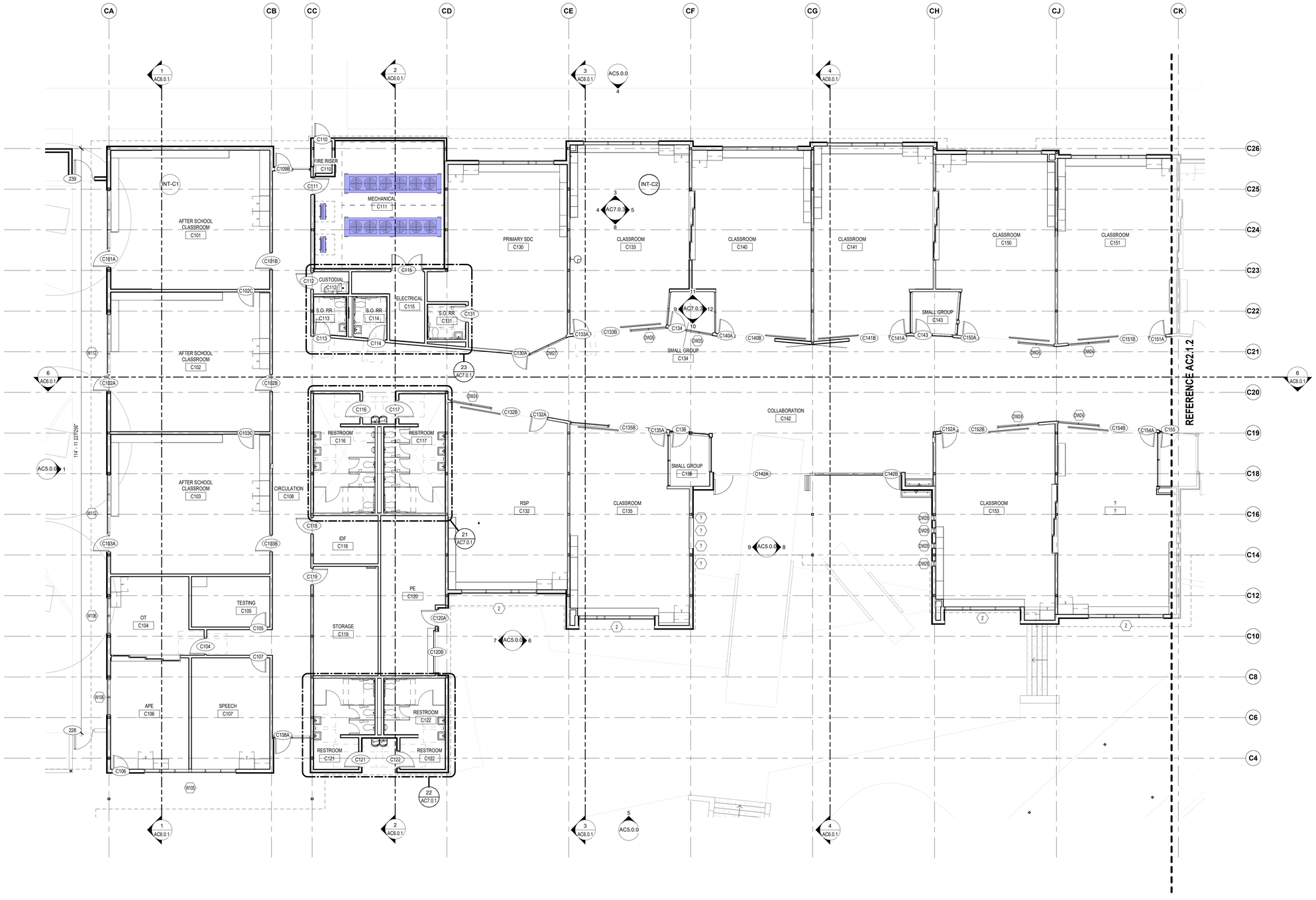
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BUILDING A
DOOR AND WINDOW SCHEDULE

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
AA8.0.1



1 FLOOR PLAN - BLDG C - C1
1/8" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

WALL LEGEND

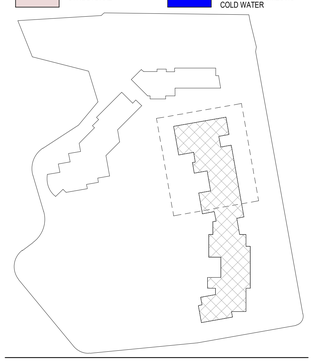
- XX — WALL TYPES PER SHEET A2.0.1
- NON-RATED PARTITION - PER WALL TYPE
- 1 HOUR RATED FIRE BARRIER - PER WALL TYPE - SEE NOTE 8
- 1 HOUR RATED FIRE PARTITION - PER WALL TYPE - SEE NOTE 8
- 1 HOUR RATED SHAFT WALL - PER WALL TYPE - SEE NOTE 8

GENERAL NOTES

1. FINISH FLOOR PER CIVIL
2. DOOR FRAMES LOCATED NEAR ADJACENT WALLS OR CASEWORK TO BE 4" FROM INSIDE CORNER, U.N.O.
3. COORDINATE AND CONFIRM EXACT LOCATIONS OF ALL FLOOR MOUNTED OUTLETS PRIOR TO CONCRETE PLACEMENT, SEE ELECT.
4. FOR TYPICAL WALL FRAMING DETAILS, SEE SHEET A9.6.1 & A9.6.2
5. AREAS WITH DRAINS OR SCUPPERS SHALL HAVE 2% MAX. SLOPE IN ALL DIRECTIONS.
6. FLOOR DRAINS SHALL HAVE 1/2" MAX. STRAINER OPENINGS IN ALL DIRECTIONS.
7. FOR FLOOR FINISH PLANS SEE ID SHEETS.
8. AT RATED WALLS, PROVIDE 1" HIGH PAINTED STENCIL LETTERS ABOVE ACESSIBLE CEILING SPACE AT 30' INTERVALS WORDING:
   - 1HR FIRE BARRIER - PROTECT ALL OPENINGS
   - 1HR FIRE PARTITION - PROTECT ALL OPENINGS
   - 1HR SHAFT WALL - PROTECT ALL OPENINGS
9. SECOND FLOOR AIR TRANSFER DUCTS ARE REQUIRED TO BE PROTECTED AT ANNULAR SPACE AROUND DUCT PENETRATIONS PER DETAIL - TYP.

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



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BUILDING C
FLOOR PLAN - C1

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PROJECT NO: 19009
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AC2.1.1

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REFERENCE AQ2.1.1

CLASSROOM C160 · COLLABORATION C161 · CIRCULATION C201 · STORAGE C202 · IDF C203 · ELECTRICAL C212 · S.O. RR C204 · S.O. RR C205 · CUSTODIAL C206 · CIRCULATION C207 · RESTROOM C208 · RESTROOM C209 · RESTROOM C210 · RESTROOM C211 · CLASSROOM C220 820 SF · CLASSROOM C221 822 SF · CLASSROOM C224 · SMALL GROUP C225 · CIRCULATION C223 · SMALL GROUP C222 · CLASSROOM C230 · CLASSROOM C231 · COLLABORATION C232 · SMALL GROUP C233 · CLASSROOM C234 · SMALL GROUP C235 · UPPER SDC C240 · S.O. RR C242 · CUSTODIAL C243 · MECHANICAL C244 · IDF C251 · ELECTRICAL C245 · CIRCULATION C246 · CLASSROOM C247 · CLASSROOM C248 · COLLABORATION C249 · CLASSROOM C250

DN · INT-C1

WALL LEGEND

- XX — WALL TYPES PER SHEET A2.0.1
- C24 — NON-RATED PARTITION - PER WALL TYPE
- 1 HOUR RATED FIRE BARRIER - PER WALL TYPE - SEE NOTE 8
- C23 — 1 HOUR RATED FIRE PARTITION - PER WALL TYPE - SEE NOTE 8
- 1 HOUR RATED SHAFT WALL - PER WALL TYPE - SEE NOTE 8

GENERAL NOTES

1. FINISH FLOOR PER CIVIL
2. DOOR FRAMES LOCATED NEAR ADJACENT WALLS OR CASEWORK TO BE 4" FROM INSIDE CORNER, U.N.O.
3. COORDINATE AND CONFIRM EXACT LOCATIONS OF ALL FLOOR MOUNTED OUTLETS PRIOR TO CONCRETE PLACEMENT, SEE ELECT.
4. FOR TYPICAL WALL FRAMING DETAILS, SEE SHEET A9.6.1 & A9.6.2
5. AREAS WITH DRAINS OR SCUPPERS SHALL HAVE 2% MAX. SLOPE IN ALL DIRECTIONS.
6. FLOOR DRAINS SHALL HAVE 1/2" MAX. STRAINER OPENINGS IN ALL DIRECTIONS.
7. FOR FLOOR FINISH PLANS SEE ID SHEETS.
8. AT RATED WALLS, PROVIDE 1" HIGH PAINTED STENCIL LETTERS ABOVE ACCESSIBLE CEILING SPACE AT 30' INTERVALS WORDING:
   - 1HR FIRE BARRIER - PROTECT ALL OPENINGS
   - 1HR FIRE PARTITION - PROTECT ALL OPENINGS
   - 1HR SHAFT WALL - PROTECT ALL OPENINGS
9. SECOND FLOOR AIR TRANSFER DUCTS ARE REQUIRED TO BE PROTECTED AT ANNULAR SPACE AROUND DUCT PENETRATIONS PER DETAIL - TYP.

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER

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BUILDING C
FLOOR PLAN - C2

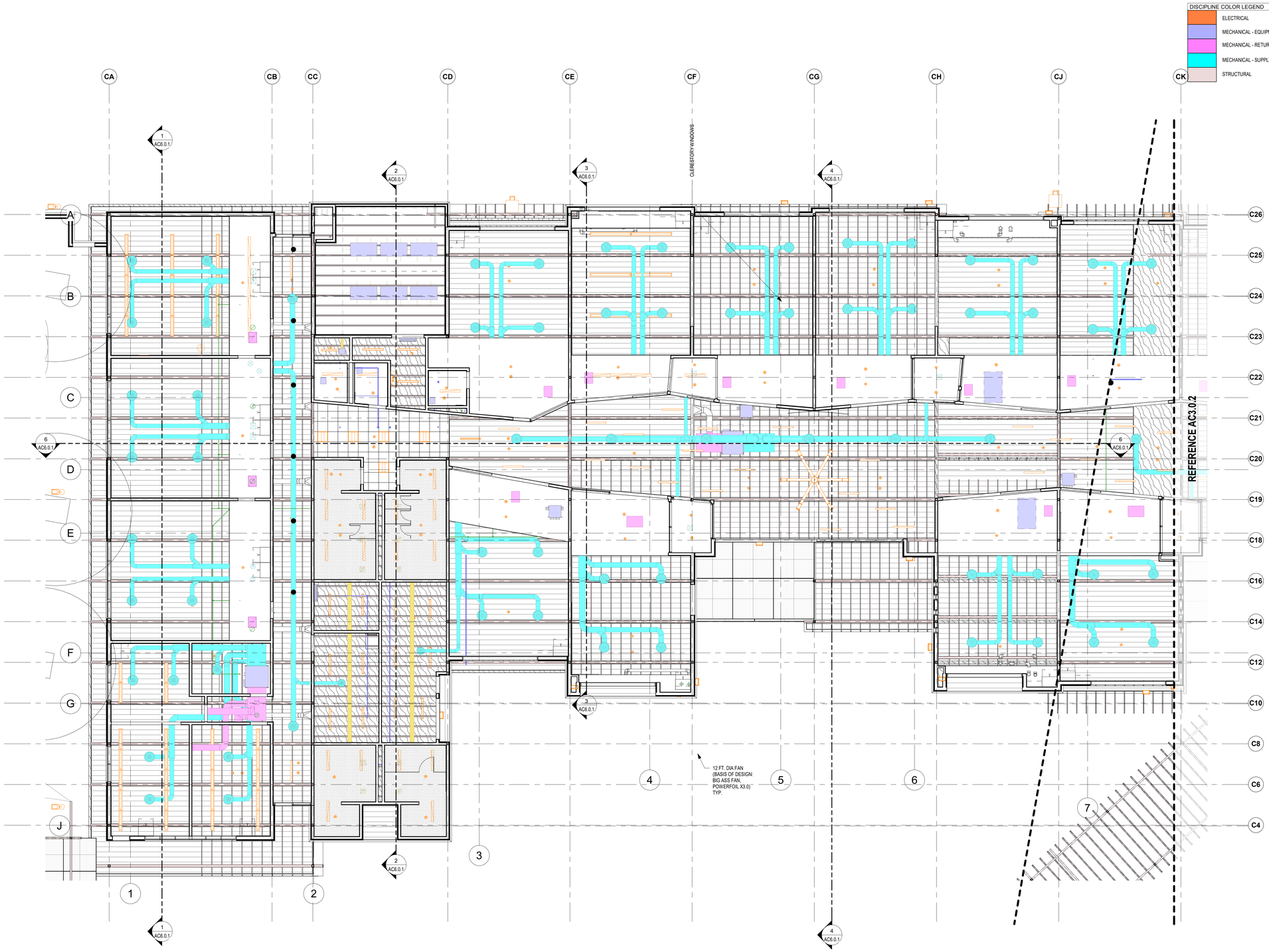
NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
AC2.1.2

1 FLOOR PLAN - BLDG C - C2
1/8" = 1'-0"

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1 REFLECTED CEILING PLAN - BLDG C - C1
1/8" = 1'-0"

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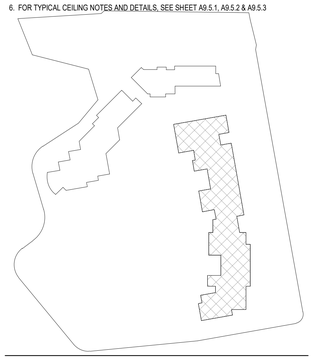
DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

CEILING LEGEND

- COMPOSITE WOOD UNDERSIDE OF SOFFIT
- ACOUSTIC PANELS BETWEEN EXPOSED STRUCTURE
- TRANSLUCENT FIBERGLASS CANOPY SYSTEM
- 2'-0" x 2'-0" SUSPENDED PANELS PER ROOM FINISH SCHEDULE - ACP-1 OR ACP-2 - 095113
- ACOUSTICAL CEILING CLOUD - ACP-3 - 095113
- 1'-0" x 8'-0" SUSPENDED METAL PANELS PER FINISH SCHEDULE - LMC-1 - 095423
- CURVED METAL PLANK PANELS PER FINISH SCHEDULE - LMC-2 - 095423 DIRECTION VARIES
- PAINTED GYPSUM BOARD PER FINISH SCHEDULE - 092900 — SPANS > 10' / SPANS < 10'
- PAINTED CEMENT PLASTER - SAND FINE FINISH - 092400
- PAINTED CEMENT PLASTER - SAND SUPER FINE FINISH - 092400
- METAL SOFFIT PANEL - 074213.53
- 4'x8' FIBER CEMENT SOFFIT - 074646
- THEATRICAL INSULATION SYSTEM (PINNED TO UNDERSIDE OF DECK) - 072100
- + X'-X" HEIGHT OF CEILING / SOFFIT
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- EXHAUST AIR DIFFUSER
- CEILING ACCESS PANEL - 083113
- LIGHT FIXTURES SEE ELECTRICAL DRAWINGS
- FIRE SPRINKLERS SEE FIRE SPRINKLER DRAWINGS

GENERAL NOTES

1. CENTER SUSPENDED CEILING GRIDS EACH WAY WITHIN SPACE, UNLESS NOTED OTHERWISE
2. CENTER MECHANICAL AIR GRILLES BETWEEN LIGHTS / WALLS IN GYPSUM BOARD CEILINGS AS SHOWN
3. CENTER LIGHT FIXTURES WITHIN SPACES UNLESS NOTED OTHERWISE
4. CEILING HEIGHT IS 9'-0" A.F.F. UNLESS NOTED OTHERWISE
5. EXIT LIGHTS NOT SHOWN, SEE ELECTRICAL DRAWINGS
6. FOR TYPICAL CEILING NOTES AND DETAILS, SEE SHEET A9.5.1, A9.5.2 & A9.5.3



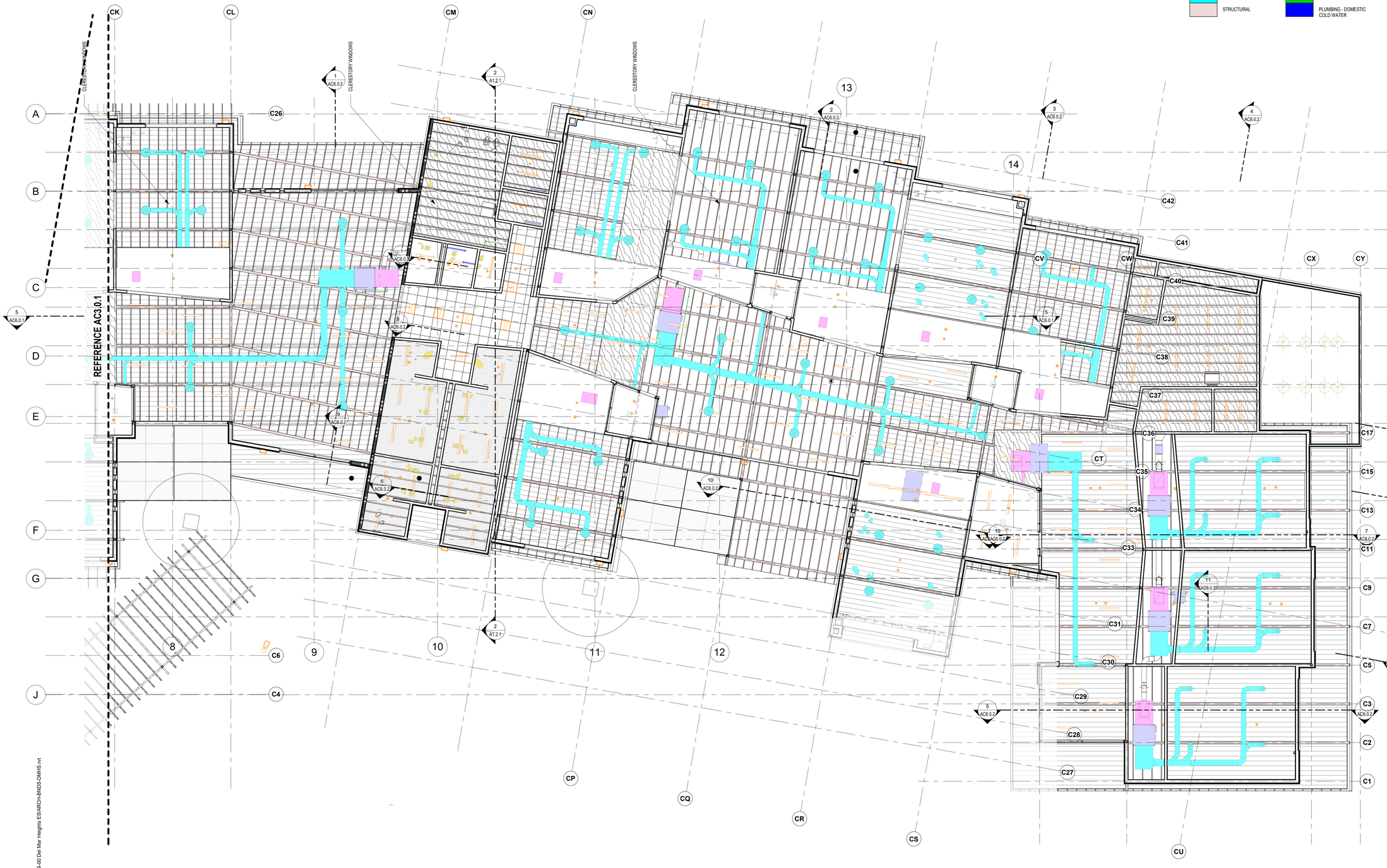
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BUILDING C
REFLECTED CEILING PLAN - C1

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PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
AC3.0.1



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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

CEILING LEGEND

- C25 — COMPOSITE WOOD UNDERSIDE OF SOFFIT
- ACOUSTIC PANELS BETWEEN EXPOSED STRUCTURE
- TRANSLUCENT FIBERGLASS CANOPY SYSTEM
- 2'-0" x 2'-0" SUSPENDED PANELS PER ROOM FINISH SCHEDULE - ACP-1 OR ACP-2 - 095113
- ACOUSTICAL CEILING CLOUD - ACP-3 - 095113
- C24 — 1'-0" x 8'-0" SUSPENDED METAL PANELS PER FINISH SCHEDULE - LMC-1 - 095423
- C23 — CURVED METAL PLANK PANELS PER FINISH SCHEDULE - LMC-2 - 095423 DIRECTION VARIES
- PAINTED GYPSUM BOARD PER FINISH SCHEDULE - 092900 (SPANS > 10' / SPANS < 10')
- C22 — PAINTED CEMENT PLASTER - SAND FINE FINISH - 092400
- C21 — PAINTED CEMENT PLASTER - SAND SUPER FINE FINISH - 092400
- METAL SOFFIT PANEL - 074213.53
- C20 — 4'x8' FIBER CEMENT SOFFIT - 074646
- THEATRICAL INSULATION SYSTEM (PINNED TO UNDERSIDE OF DECK) - 072100
- + X'-X" HEIGHT OF CEILING / SOFFIT
- C19 — SUPPLY AIR DIFFUSER / RETURN AIR DIFFUSER / EXHAUST AIR DIFFUSER / CEILING ACCESS PANEL - 083113
- C18 — LIGHT FIXTURES SEE ELECTRICAL DRAWINGS
- C16 — FIRE SPRINKLERS SEE FIRE SPRINKLER DRAWINGS

GENERAL NOTES

1. ALIGN SUSPENDED CEILING GRIDS EACH WAY WITHIN SPACE, UNLESS NOTED OTHERWISE
2. CENTER MECHANICAL AIR GRILLES BETWEEN LIGHTS / WALLS IN GYPSUM BOARD CEILINGS AS SHOWN
3. CENTER LIGHT FIXTURES WITHIN SPACES UNLESS NOTED OTHERWISE
4. CEILING HEIGHT IS 9'-0" A.F.F. UNLESS NOTED OTHERWISE
5. EXIT LIGHTS NOT SHOWN, SEE ELECTRICAL DRAWINGS
- C10 — TYPICAL CEILING NOTES AND DETAILS, SEE SHEET A9.5.1, A9.5.2 & A9.5.3

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BUILDING C

REFLECTED CEILING PLAN - C2

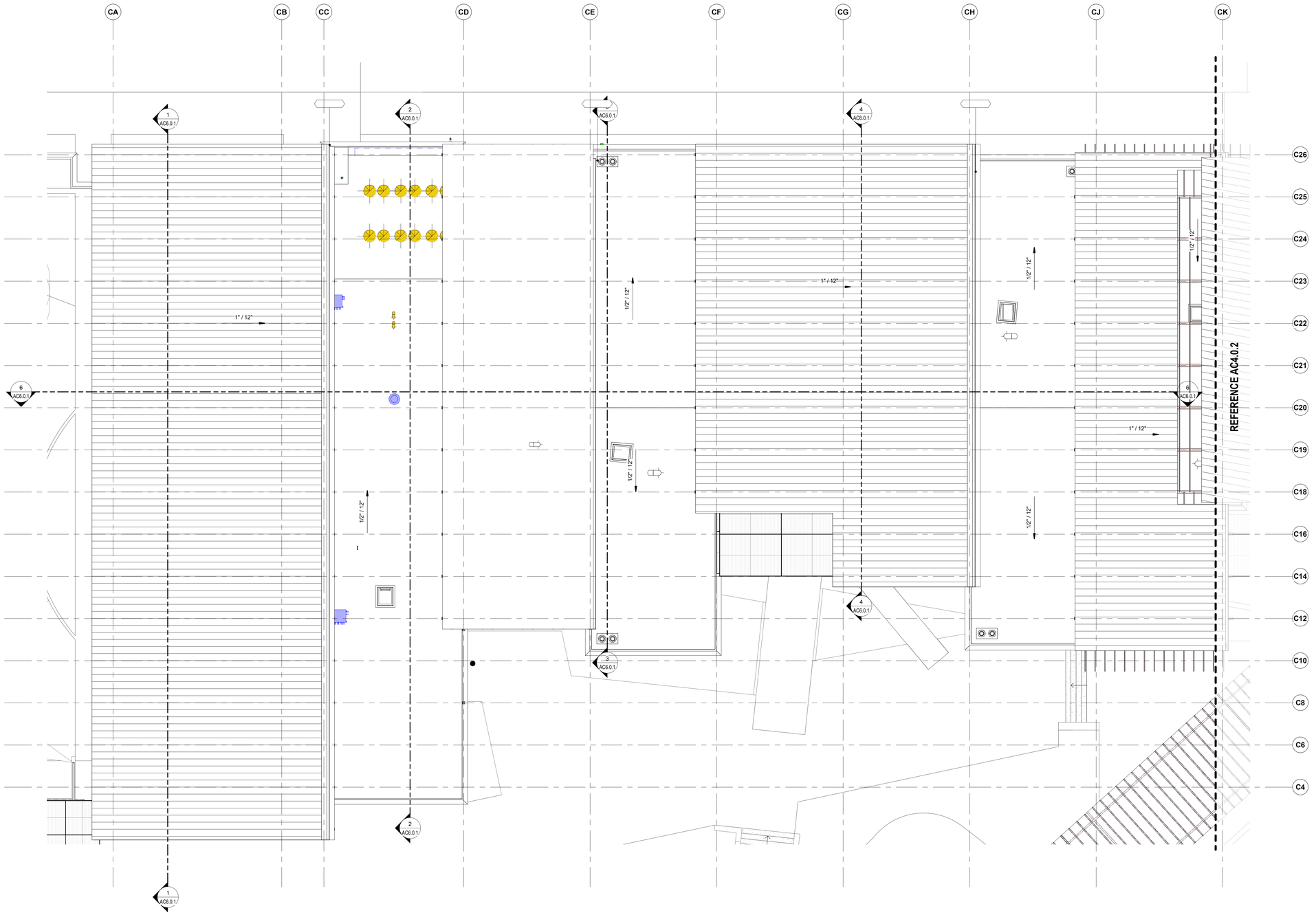
NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
AC3.0.2

1 REFLECTED CEILING PLAN - BLDG C - C2
1/8" = 1'-0"

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2/24/2020 7:55:03 AM



1 ROOF PLAN - BLDG C - C1
1/8" = 1'-0"

FOR PLAN REVIEW ONLY

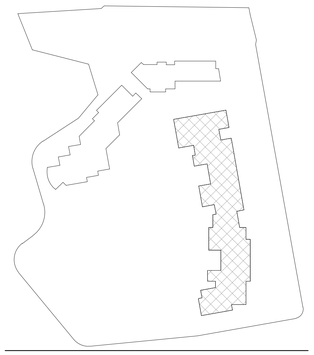
DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER

LEGEND

- 30" ROOF WALKWAY, PER MANUFACTURER - 075423
- STANDING SEAM METAL ROOFING
- PVC SINGLE PLY ROOFING
- TRANSLUCENT FIBERGLASS CANOPY SYSTEM
- ROOF HATCH 36"x36"



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BUILDING C
ROOF PLAN - C1

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
AC4.0.1

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2/24/2020 7:55:10 AM

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

REFERENCE AC4.0.1

1 ROOF PLAN - BLDG C - C2
1/8" = 1'-0"

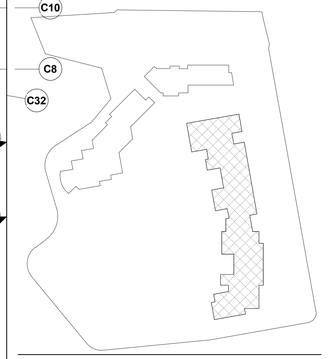
DISCIPLINE COLOR LEGEND

C20	ELECTRICAL		FIRE PROTECTION - SPRINKLER
	MECHANICAL - EQUIPMENT		MECHANICAL - SANITARY VENT
	MECHANICAL - RETURN		MECHANICAL - EXHAUST
C19	MECHANICAL - SUPPLY		PLUMBING - STORM DRAIN
	STRUCTURAL		PLUMBING - DOMESTIC COLD WATER

Discipline Color Legend
12" = 1'-0"

LEGEND-ROOF
1/8" = 1'-0"

- C17 — 30" ROOF WALKWAY, PER MANUFACTURER - 075423
- C15 — STANDING SEAM METAL ROOFING
- C14 — PVC SINGLE PLY ROOFING
- C12 — TRANSLUCENT FIBERGLASS CANOPY SYSTEM
- C11 — ROOF HATCH 36"x36"



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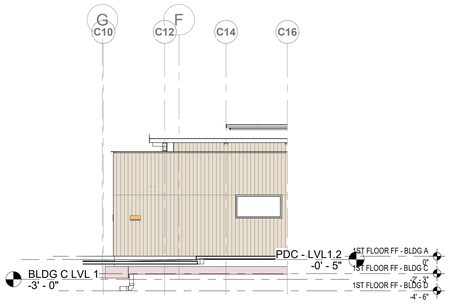
BUILDING C
ROOF PLAN - C2

NO. DATE ISSUE

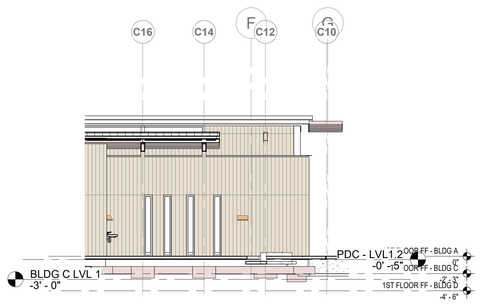
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DATE: 02/28/2020

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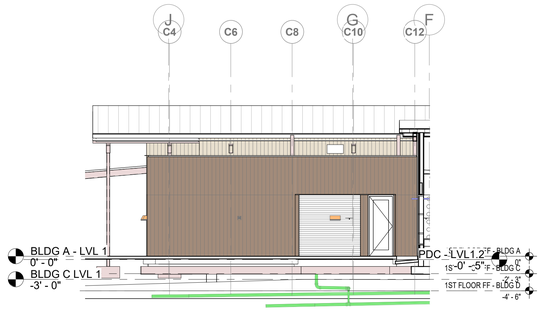
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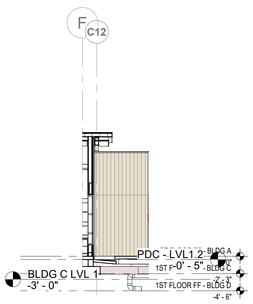
9 AC2.1.1 BLDG C1 - ELEVATION S4
1/8" = 1'-0"



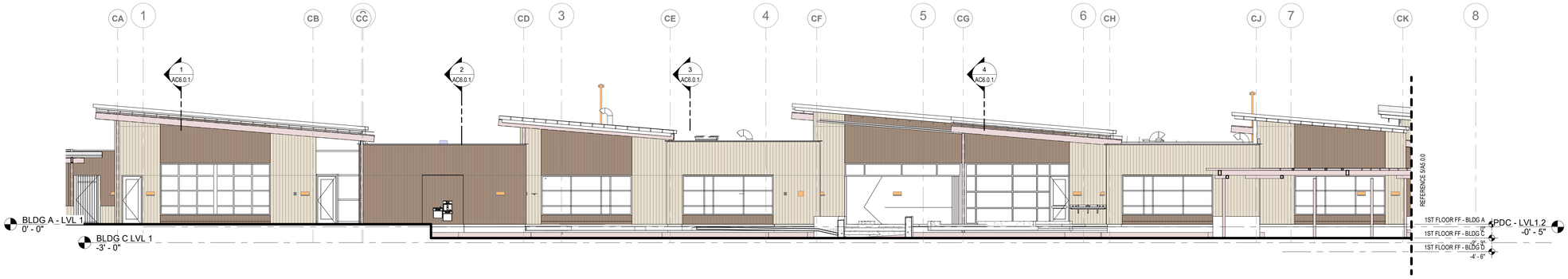
8 AC2.1.1 BLDG C1 - ELEVATION - N3
1/8" = 1'-0"



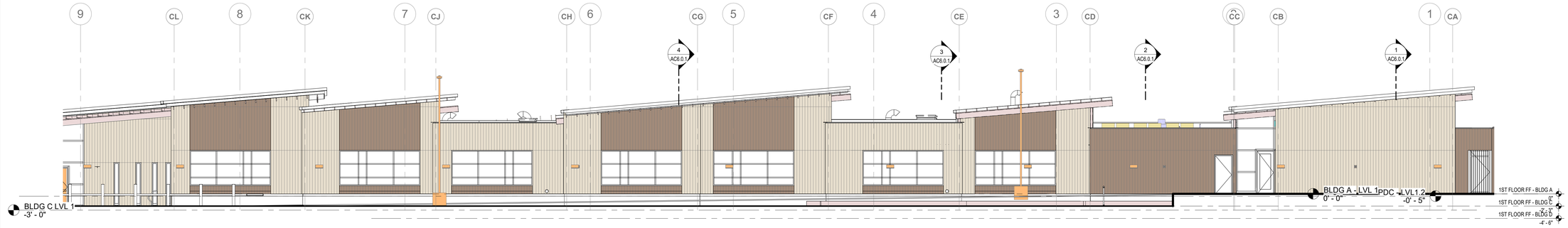
7 AC2.1.1 BLDG C1 - ELEVATION S3
1/8" = 1'-0"



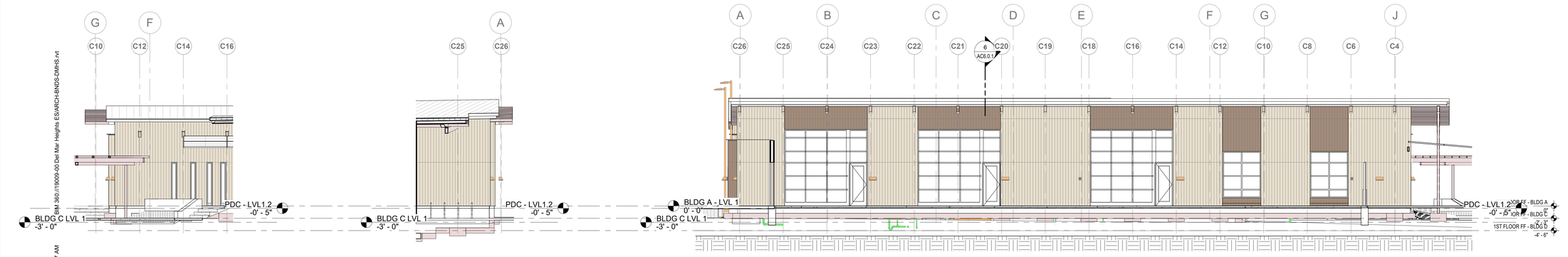
6 AC2.1.1 BLDG C1 - ELEVATION - N2
1/8" = 1'-0"



5 AC2.1.1 BLDG C1 - ELEVATION W
1/8" = 1'-0"



4 BLDG C1 - ELEVATION E
1/8" = 1'-0"



3 AC2.1.2 BLDG C1 - ELEVATION S2
1/8" = 1'-0"

2 AC2.1.2 BLDG C1 - ELEVATION S1
1/8" = 1'-0"

1 BLDG C1 - ELEVATION - N1
1/8" = 1'-0"

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DEL MAR HEIGHTS SCHOOL REBUILD

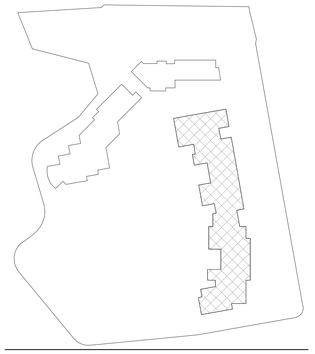
DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER

LEGEND

- FIBER BASED COMPOSITE WOOD CLADDING - FIELD COLOR - LFC-1
- FIBER BASED COMPOSITE WOOD CLADDING - ACCENT COLOR - LFC-2

NOTES:
1 - SEE AND FOR PLASTER AND FIBER-CEMENT ACCESSORIES.



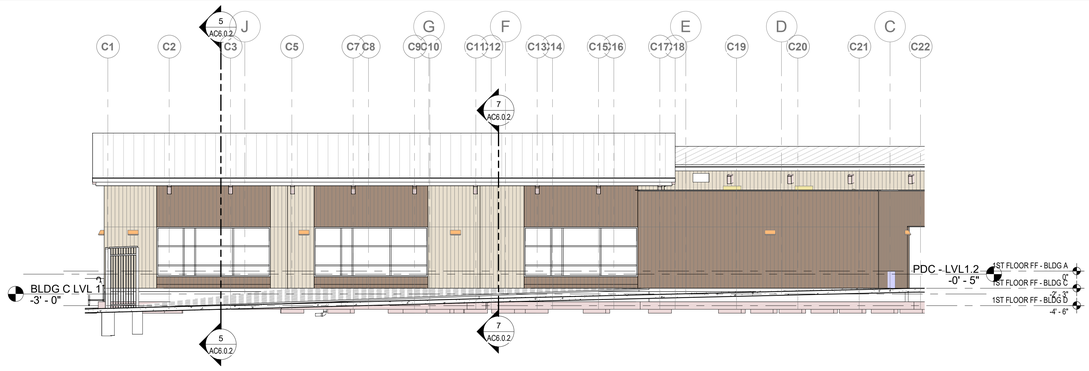
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BUILDING C
EXTERIOR ELEVATIONS

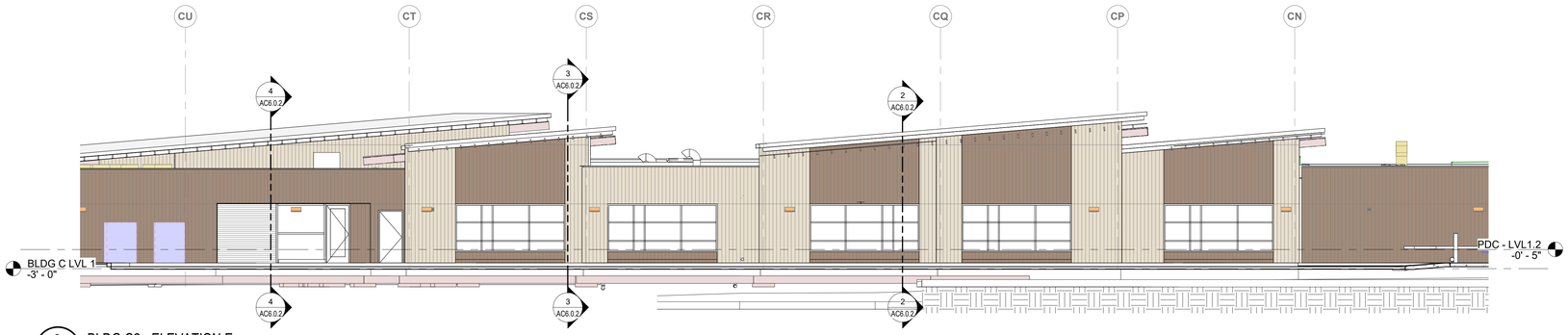
NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

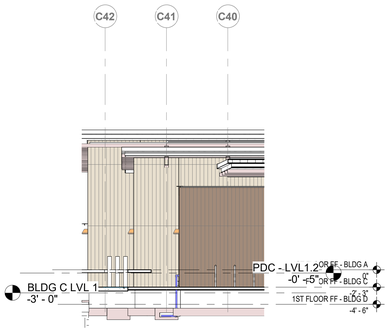
DRAWING
AC5.0.0



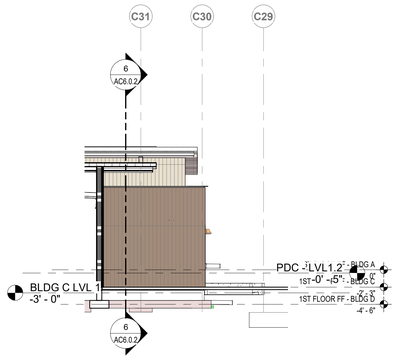
7 BLDG C2 - ELEVATION S
1/8" = 1'-0"



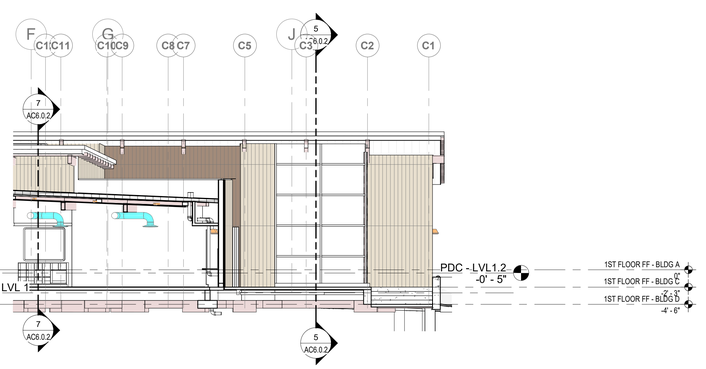
6 AC2.1.2 BLDG C2 - ELEVATION E
1/8" = 1'-0"



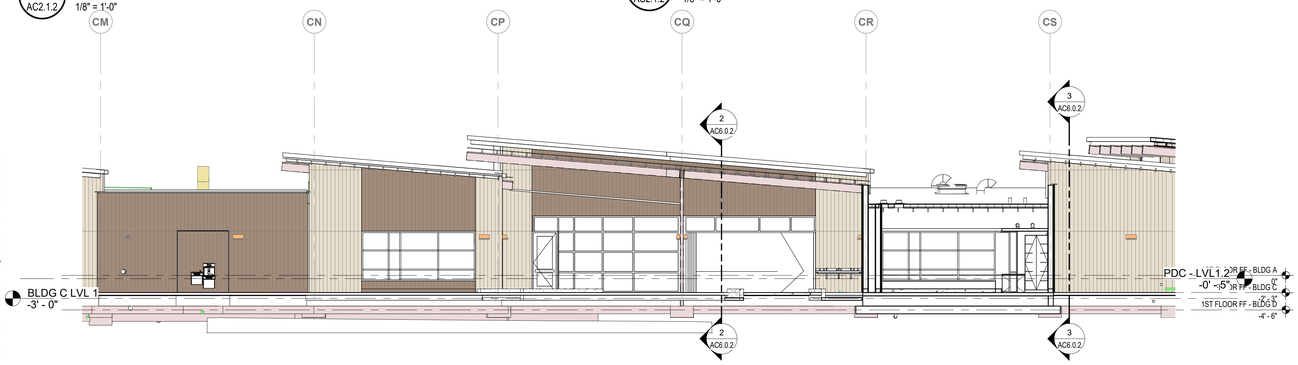
5 AC2.1.2 BLDG C2 - ELEVATION N3
1/8" = 1'-0"



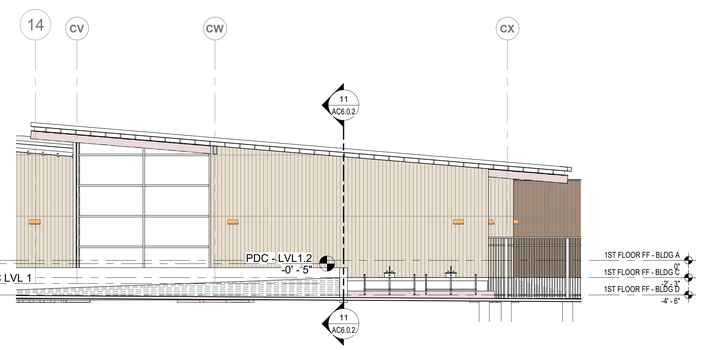
4 AC2.1.2 BLDG C2 - ELEVATION N2
1/8" = 1'-0"



3 BLDG C2 - ELEVATION N1
1/8" = 1'-0"



2 AC2.1.2 BLDG C2 - ELEVATION W2
1/8" = 1'-0"



1 AC2.1.2 BLDG C2 - ELEVATION W1
1/8" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER

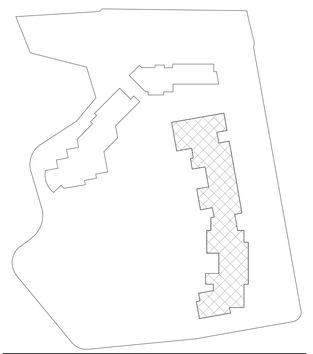
LEGEND

FIBER BASED COMPOSITE WOOD CLADDING - FIELD COLOR - LFC-1

FIBER BASED COMPOSITE WOOD CLADDING - ACCENT COLOR - LFC-2

NOTES:

1 - SEE AND FOR PLASTER AND FIBER-CEMENT ACCESSORIES.



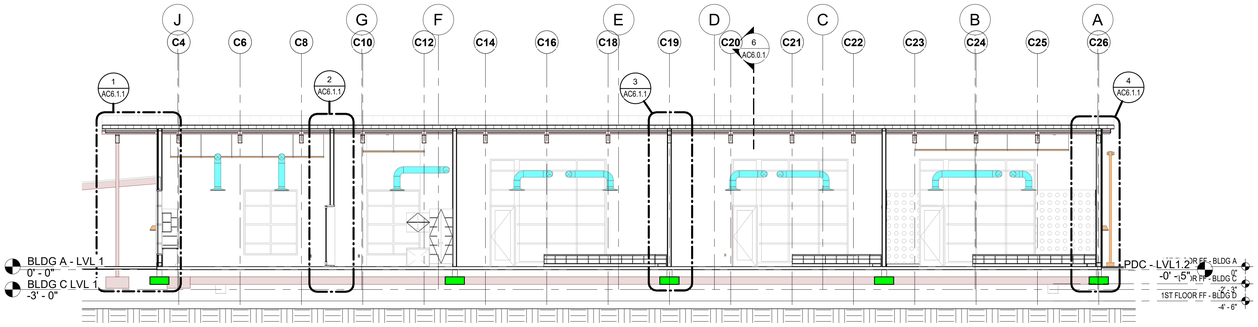
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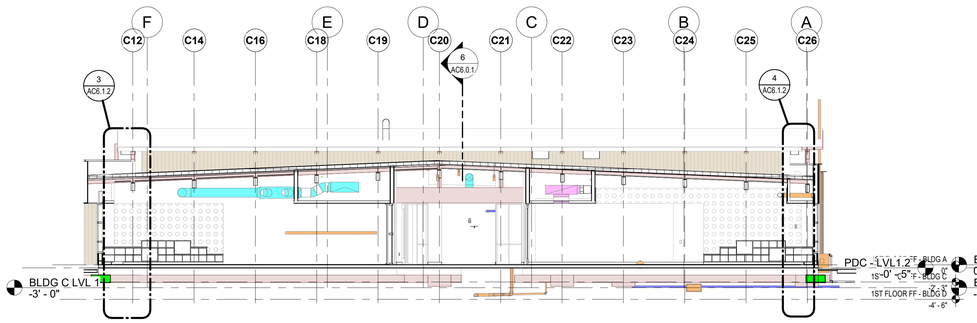
BUILDING C
EXTERIOR ELEVATIONS

NO. DATE ISSUE

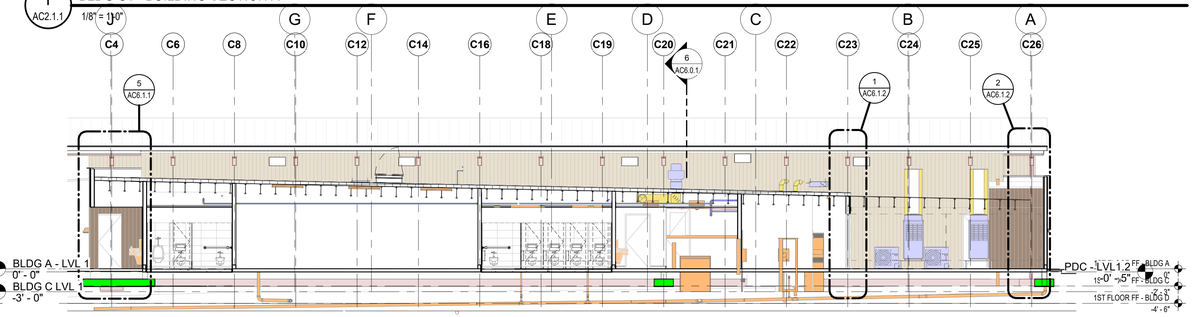
PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
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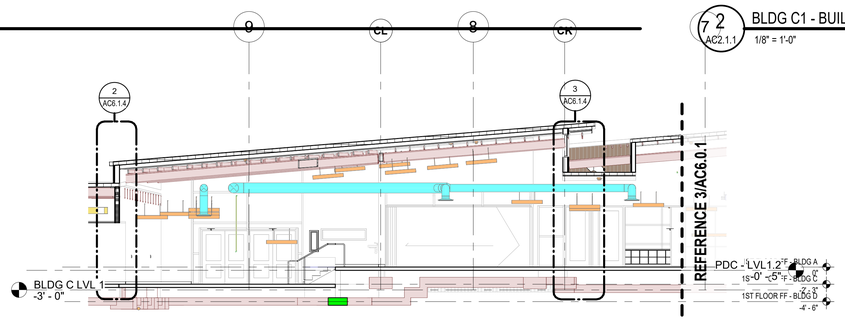




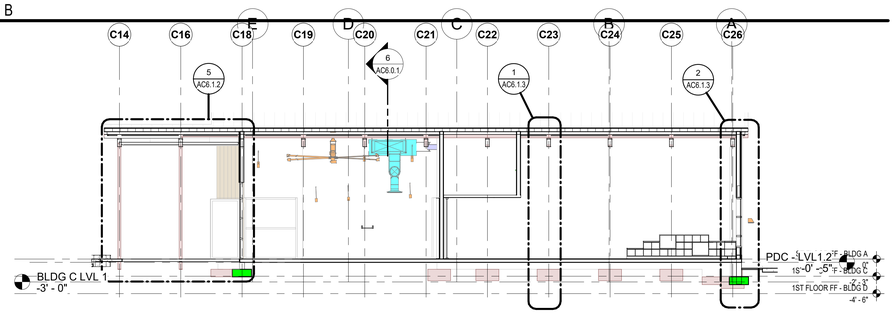
1 AC2.1.1 BLDG C1 - BUILDING SECTION A
1/8" = 1'-0"



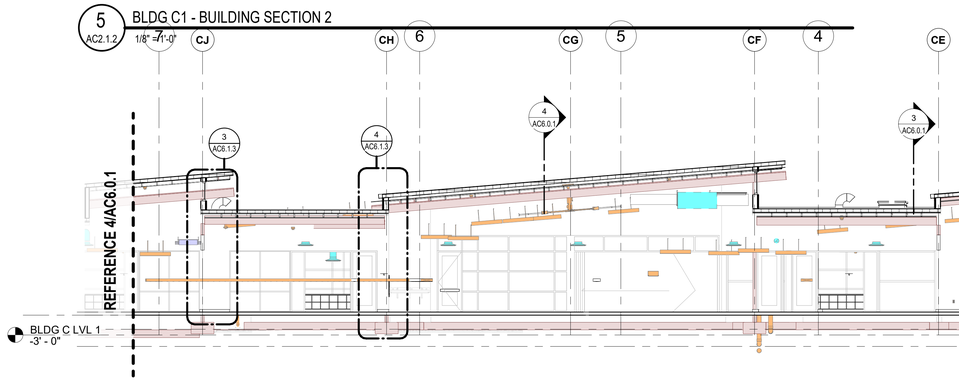
3 AC2.1.1 BLDG C1 - BUILDING SECTION C
1/8" = 1'-0"



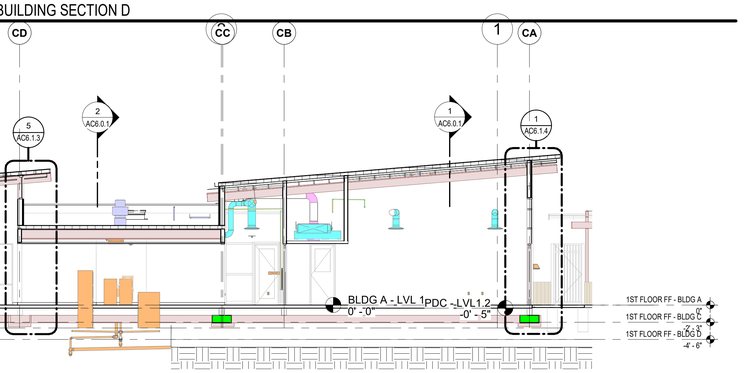
2 AC2.1.1 BLDG C1 - BUILDING SECTION B
1/8" = 1'-0"



5 AC2.1.2 BLDG C1 - BUILDING SECTION 2
1/8" = 1'-0"



4 AC2.1.1 BLDG C1 - BUILDING SECTION D
1/8" = 1'-0"



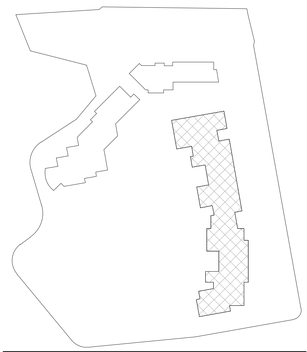
6 AC2.1.1 BLDG C1 - BUILDING SECTION 1
1/8" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



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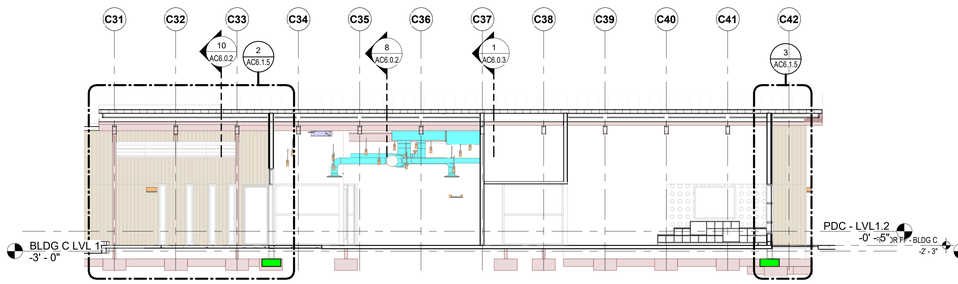
BUILDING C
BUILDING SECTION

NO. DATE ISSUE

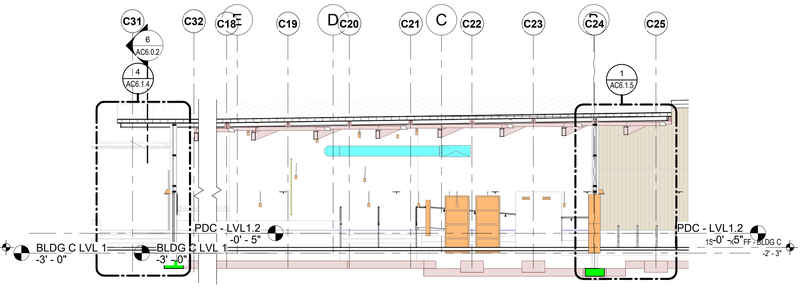
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DATE: 02/28/2020

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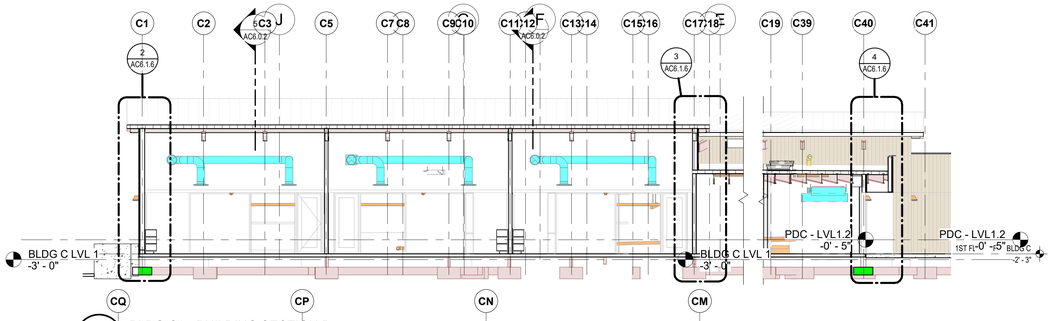
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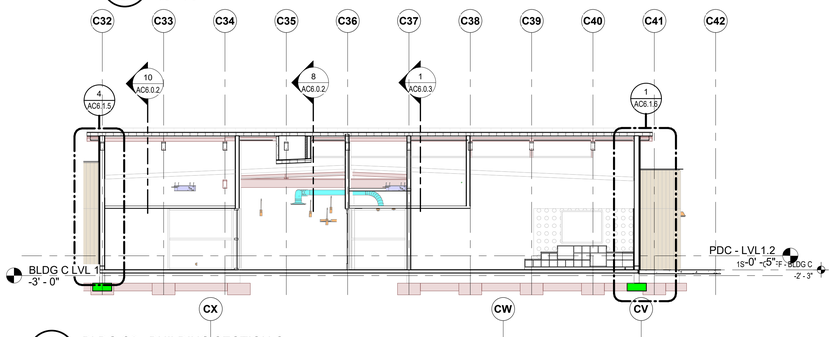
2 AC2.1.2 BLDG C2 - BUILDING SECTION B
1/8" = 1'-0"



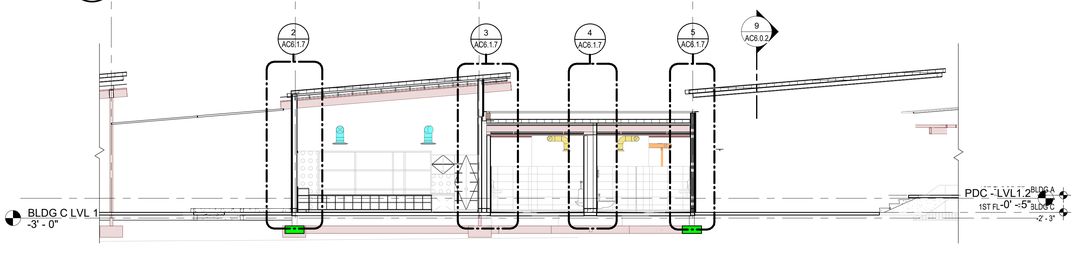
1 AC2.1.2 BLDG C2 - BUILDING SECTION A
1/8" = 1'-0"

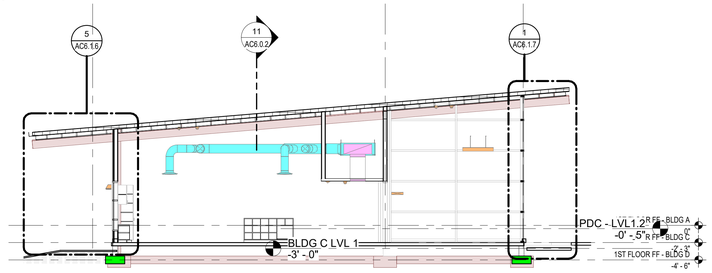


4 AC2.1.2 BLDG C2 - BUILDING SECTION D
1/8" = 1'-0"



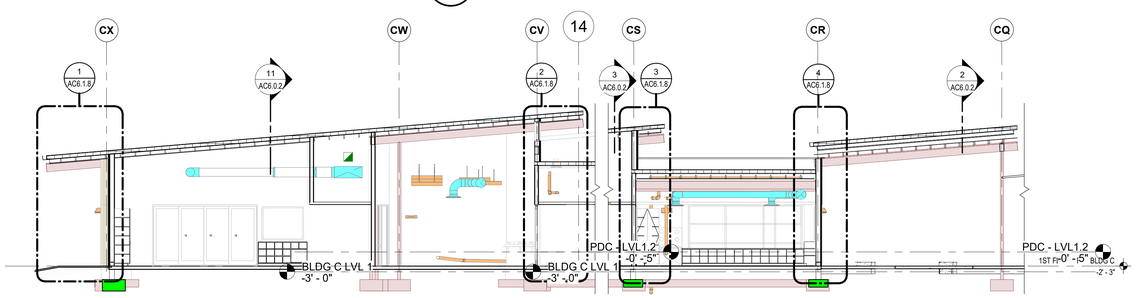
3 AC2.1.2 BLDG C2 - BUILDING SECTION C
1/8" = 1'-0"



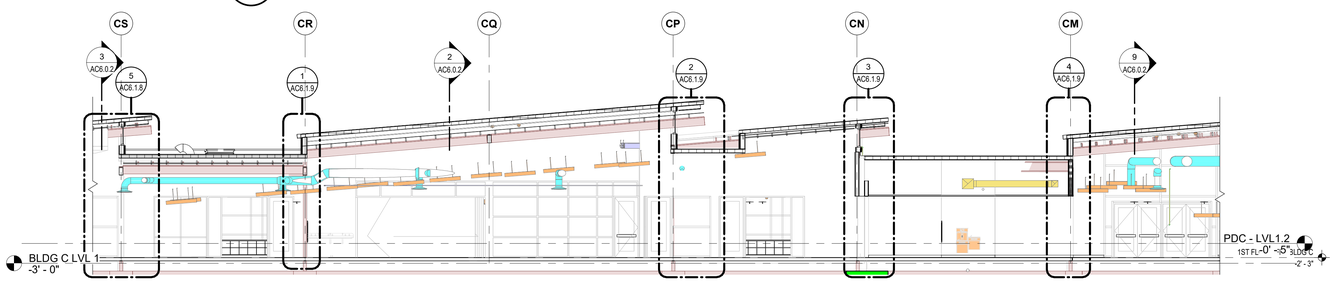


6 A1.5.1 BLDG C2 - BUILDING SECTION 2
1/8" = 1'-0"

5 AC2.1.2 BLDG C2 - BUILDING SECTION 1
1/8" = 1'-0"



7 AC2.1.2 BLDG C2 - BUILDING SECTION 3
1/8" = 1'-0"



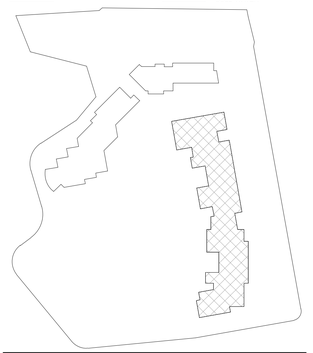
8 AC2.1.2 BLDG C2 - BUILDING SECTION 4
1/8" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



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BUILDING C
BUILDING SECTION

NO. DATE ISSUE

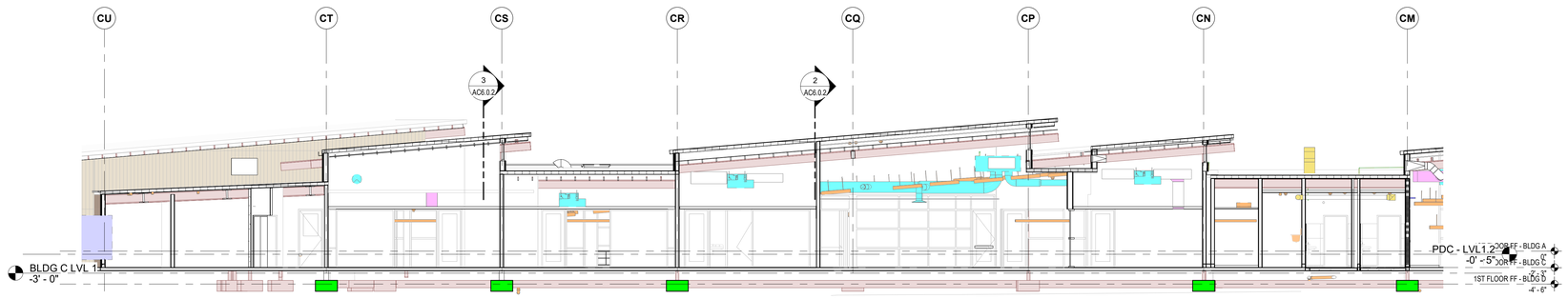
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DATE: 02/28/2020

DRAWING
AC6.0.2

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD



1 AC2.1.2 BLDG C2 - BUILDING SECTION 5
1/8" = 1'-0"

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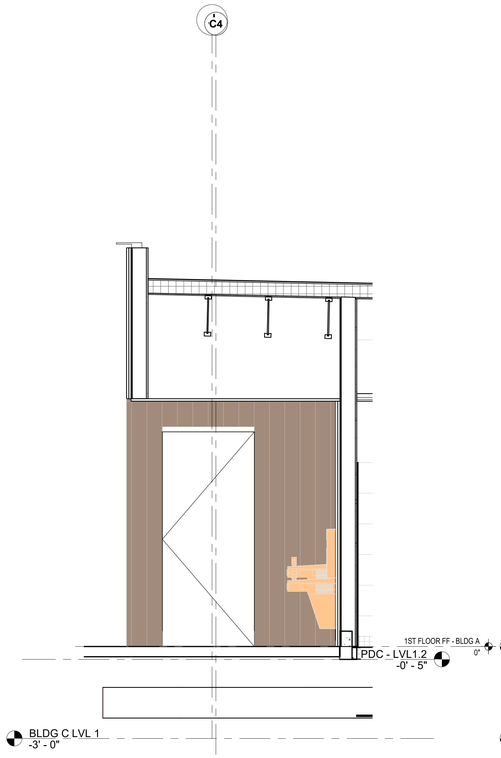
BUILDING C
BUILDING SECTION

NO.	DATE	ISSUE

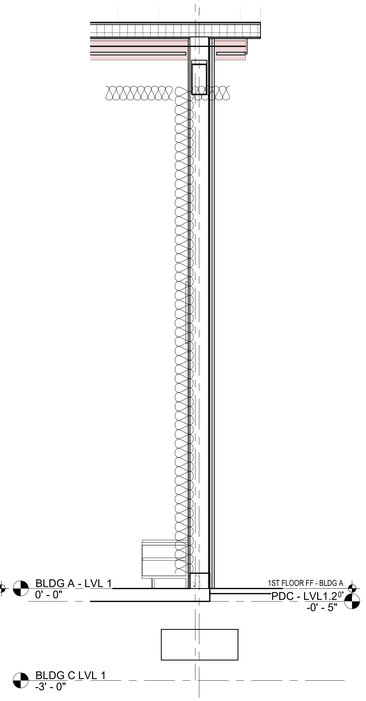
PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
AC6.0.3

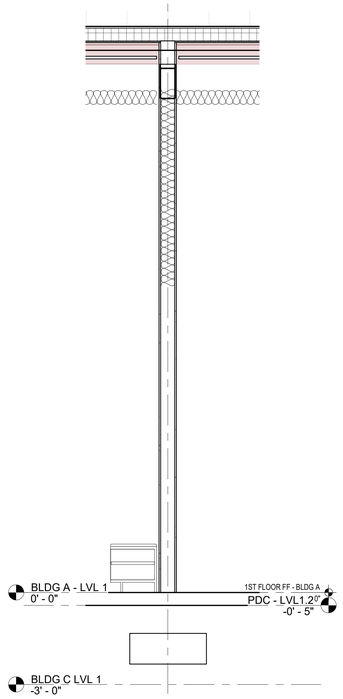
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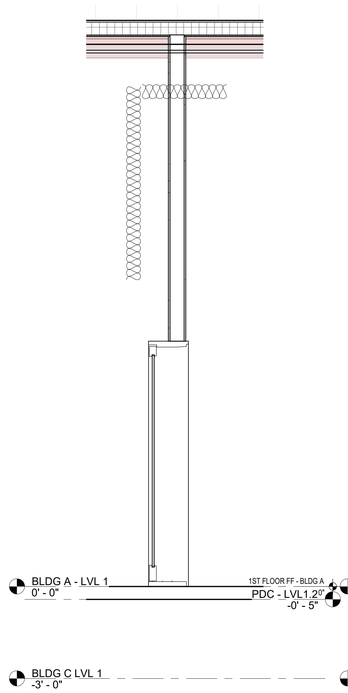
5 BLDG C1 - WALL SECTION B.1
AC6.0.1 1/2" = 1'-0"



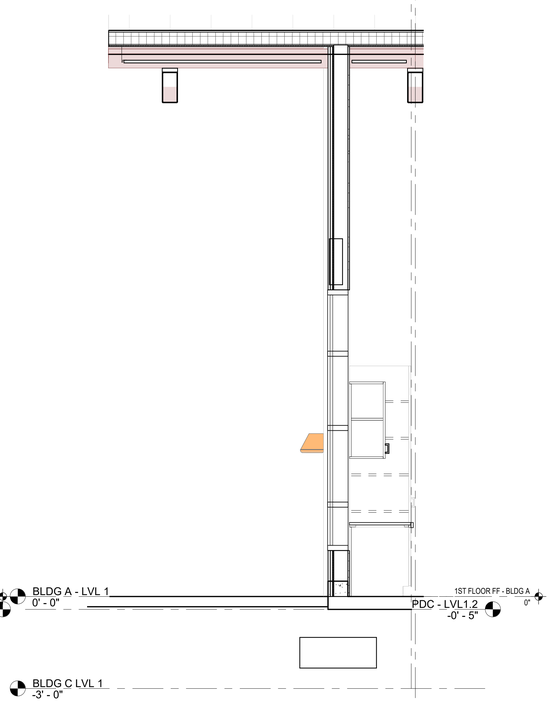
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AC6.0.1 1/2" = 1'-0"



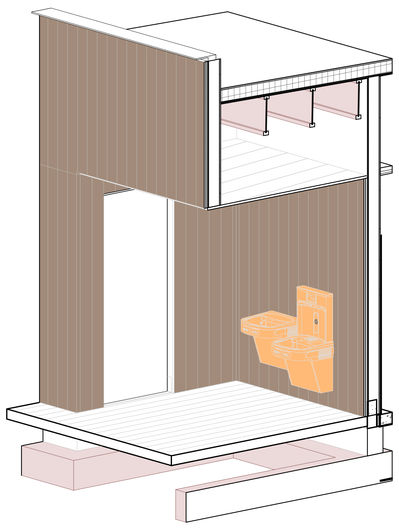
3 BLDG C1 - WALL SECTION A.3
AC6.0.1 1/2" = 1'-0"



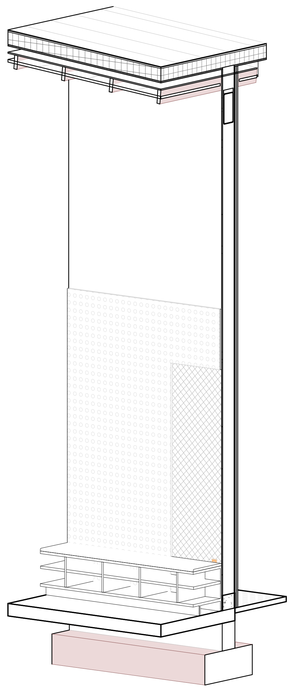
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AC6.0.1 1/2" = 1'-0"

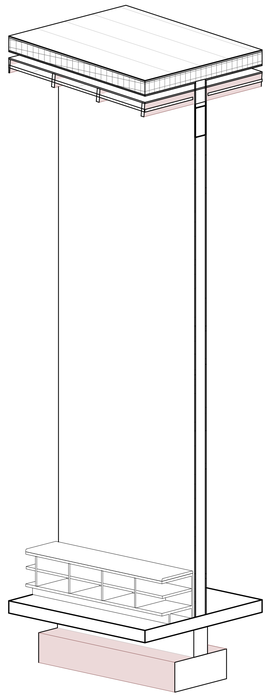


1 BLDG C1 - WALL SECTION A.1
AC6.0.1 1/2" = 1'-0"

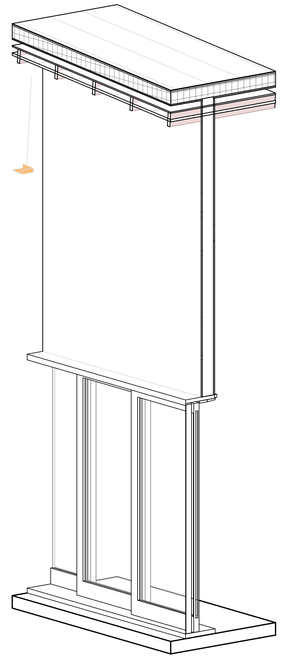


9 BLDG C1 - WALL SECTION A.4 - ISO - FOR REFERENCE ONLY

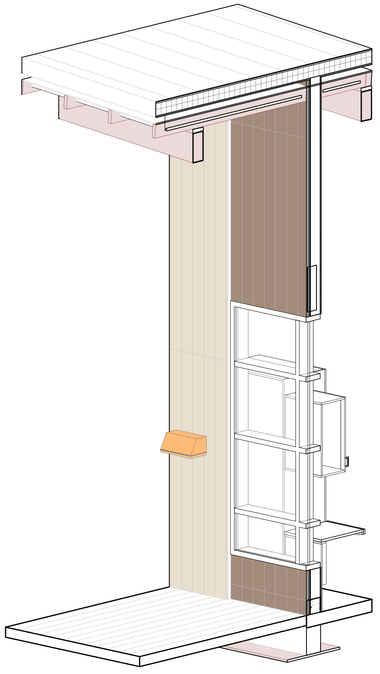




8 BLDG C1 - WALL SECTION A.3 - ISO - FOR REFERENCE ONLY



7 BLDG C1 - WALL SECTION A.2 - ISO - FOR REFERENCE ONLY



6 BLDG C1 - WALL SECTION A.1 - ISO - FOR REFERENCE ONLY

10 BLDG C1 - WALL SECTION B.1 - ISO - FOR REFERENCE ONLY

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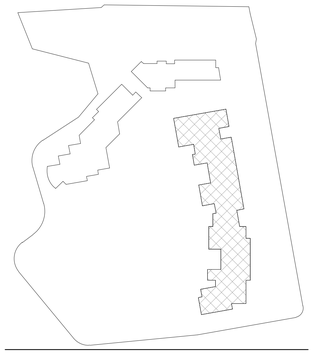
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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



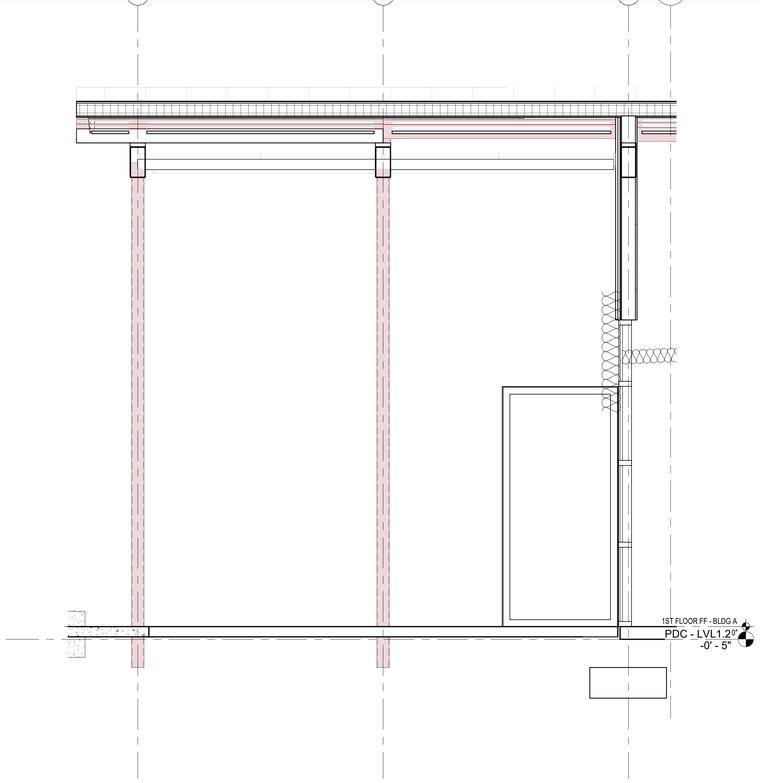
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BUILDING C
WALL SECTION

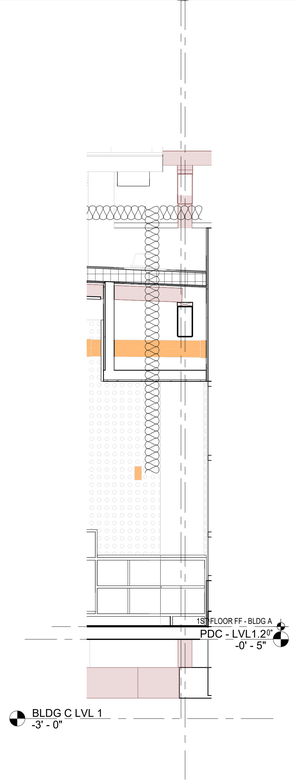
NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

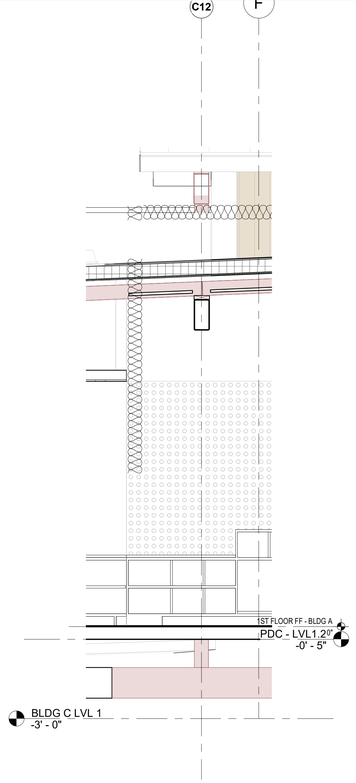
DRAWING
AC6.1.1



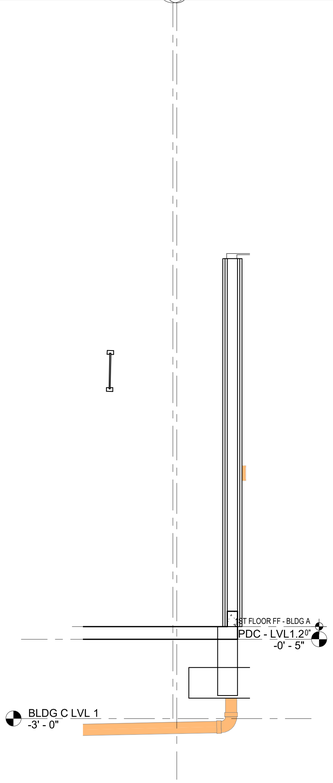
5 BLDG C1 - WALL SECTION D.1
AC6.0.1 1/2" = 1'-0"



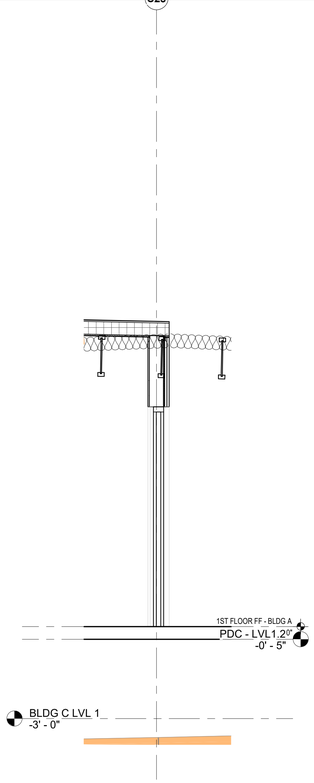
4 BLDG C1 - WALL SECTION C.2
AC6.0.1 1/2" = 1'-0"



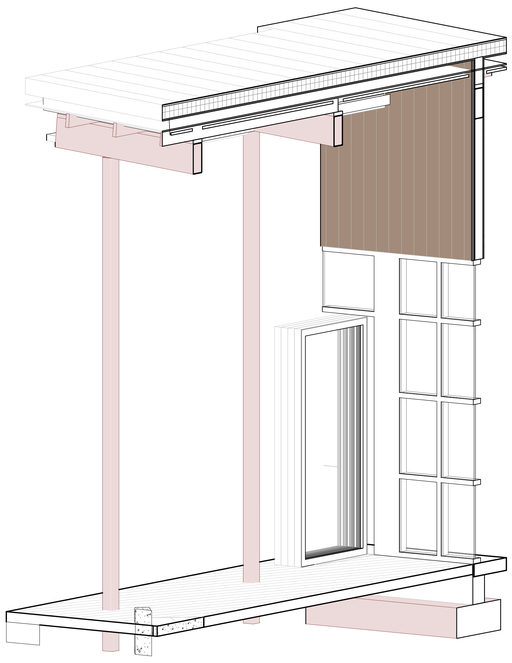
3 BLDG C1 - WALL SECTION C.1
AC6.0.1 1/2" = 1'-0"



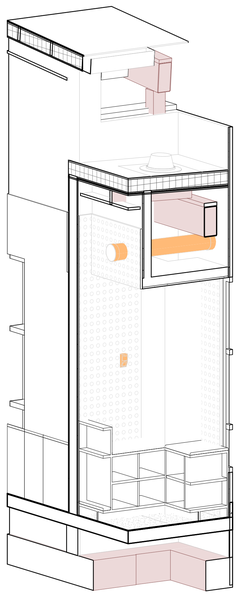
2 BLDG C1 - WALL SECTION B.3
AC6.0.1 1/2" = 1'-0"



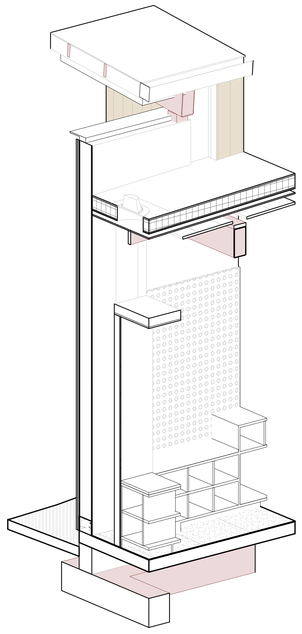
1 BLDG C1 - WALL SECTION B.2
AC6.0.1 1/2" = 1'-0"



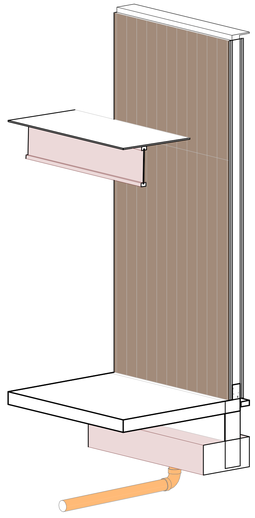
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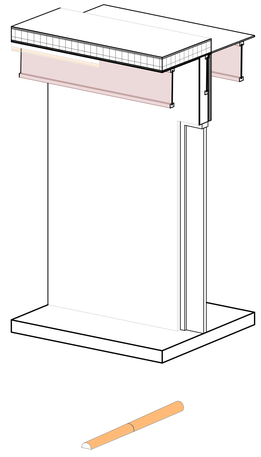
9 BLDG C1 - WALL SECTION C.2 - ISO - FOR REFERENCE ONLY



8 BLDG C1 - WALL SECTION C.1 - ISO - FOR REFERENCE ONLY



7 BLDG C1 - WALL SECTION B.3 - ISO - FOR REFERENCE ONLY



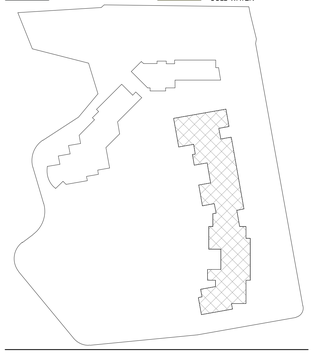
6 BLDG C1 - WALL SECTION B.2 - ISO - FOR REFERENCE ONLY

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
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MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



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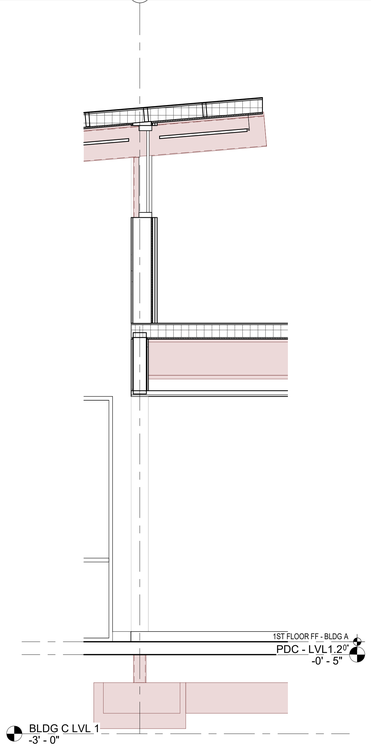
BUILDING C
WALL SECTION

NO. DATE ISSUE

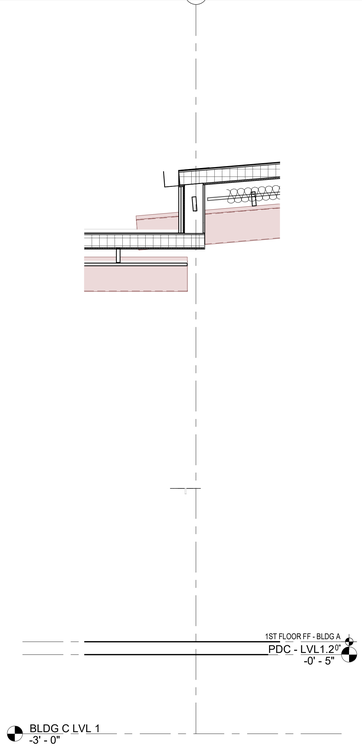
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DATE: 02/28/2020

DRAWING
AC6.1.2

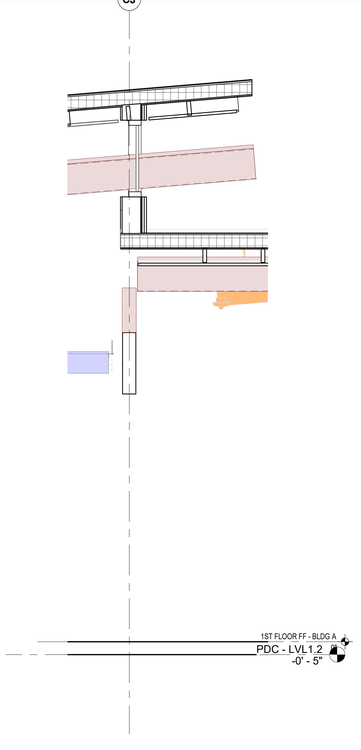
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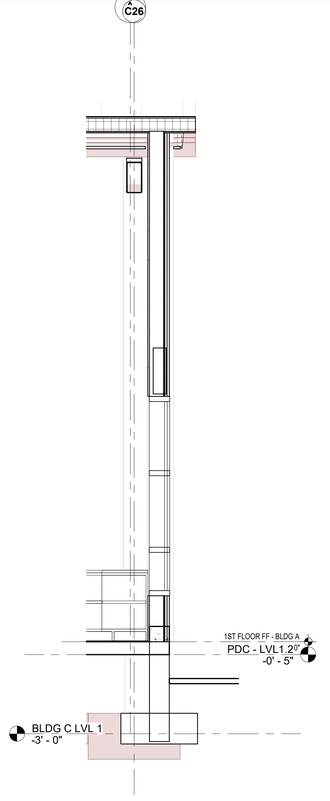
5 BLDG C1 - WALL SECTION 1.3
AC6.0.1 1/2" = 1'-0"



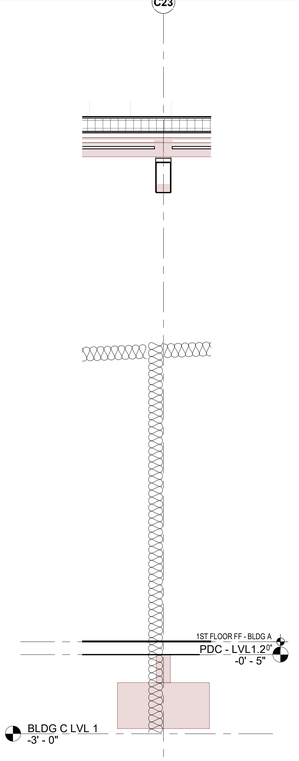
4 BLDG C1 - WALL SECTION 1.2
AC6.0.1 1/2" = 1'-0"



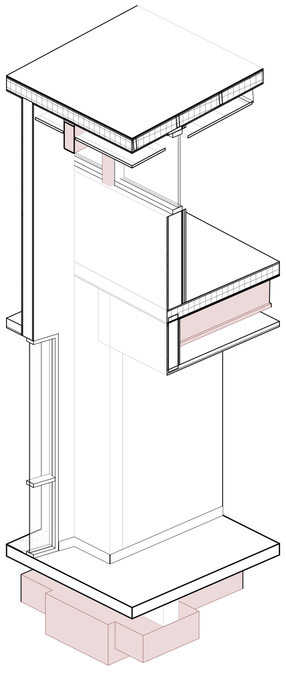
3 BLDG C1 - WALL SECTION 1.1
AC6.0.1 1/2" = 1'-0"



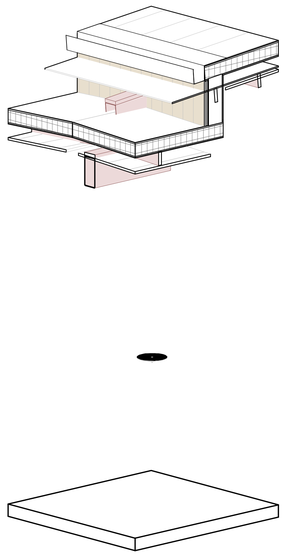
2 BLDG C1 - WALL SECTION D.3
AC6.0.1 1/2" = 1'-0"



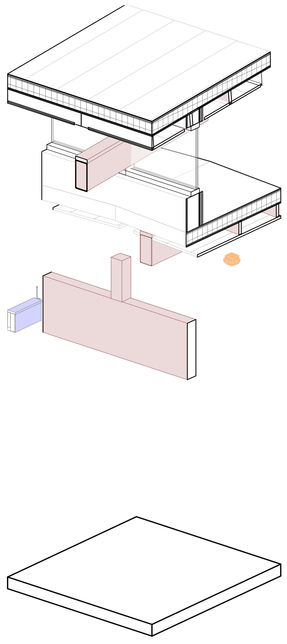
1 BLDG C1 - WALL SECTION D.2
AC6.0.1 1/2" = 1'-0"



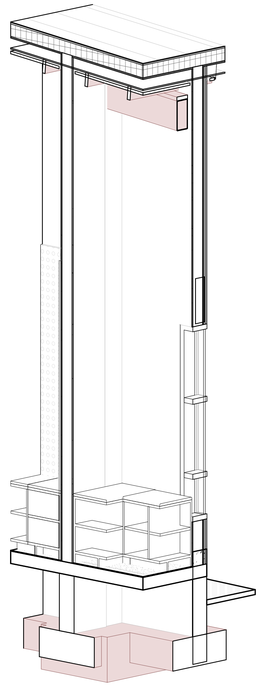
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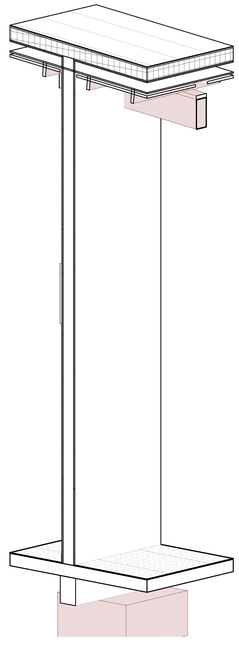
9 BLDG C1 - WALL SECTION 1.2 - ISO - FOR REFERENCE ONLY



8 BLDG C1 - WALL SECTION 1.1 - ISO - FOR REFERENCE ONLY



7 BLDG C1 - WALL SECTION D.3 - ISO - FOR REFERENCE ONLY



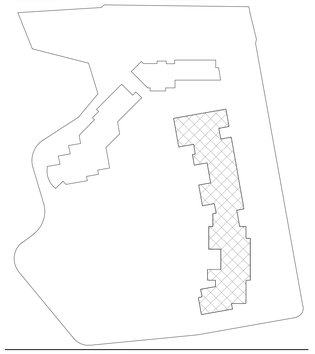
6 BLDG C1 - WALL SECTION D.2 - ISO - FOR REFERENCE ONLY

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
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MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



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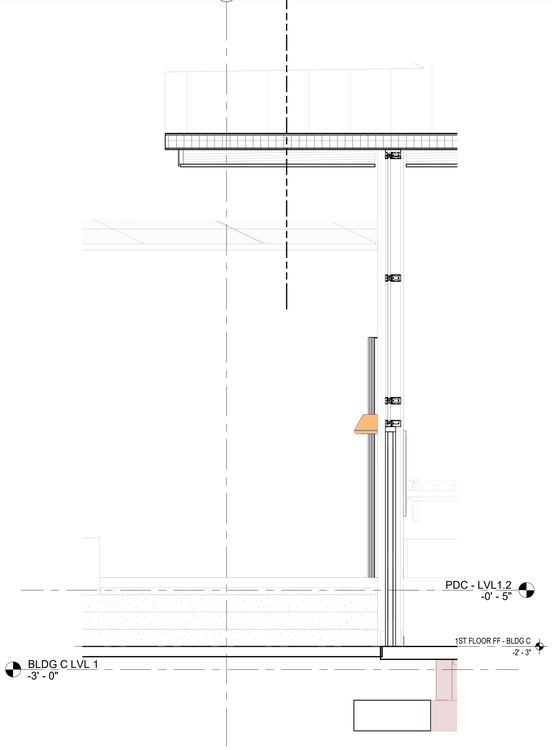
BUILDING C
WALL SECTION

NO. DATE ISSUE

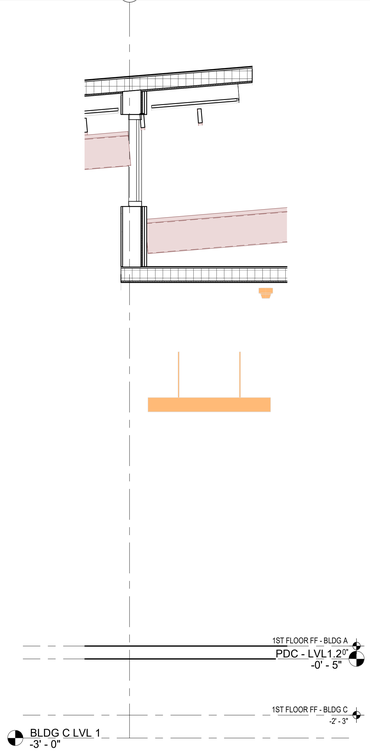
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DATE: 02/28/2020

DRAWING
AC6.1.3

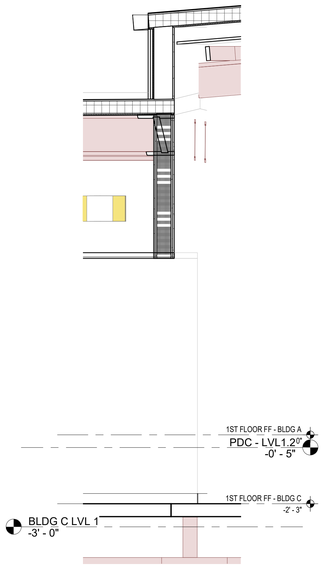
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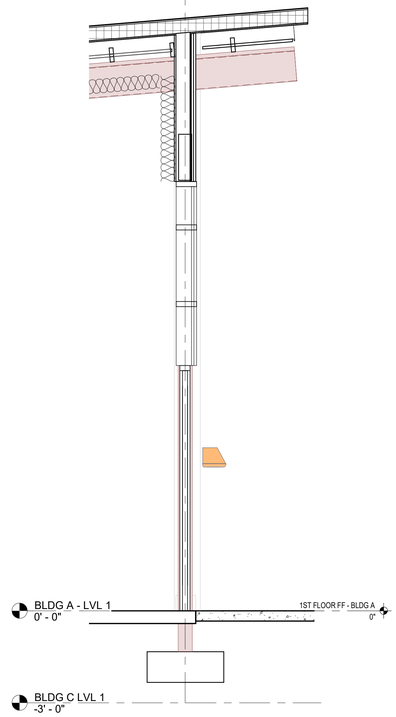
4 AC6.0.2 BLDG C2 - BUILDING SECTION A.1
1/2" = 1'-0"



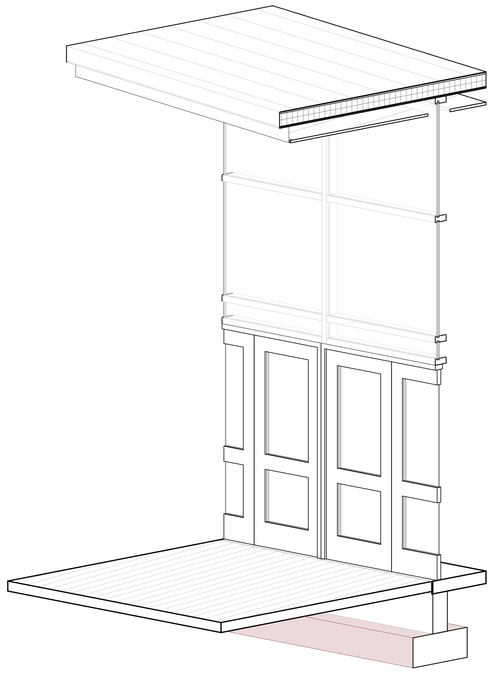
3 AC6.0.1 BLDG C1 - WALL SECTION 2.2
1/2" = 1'-0"



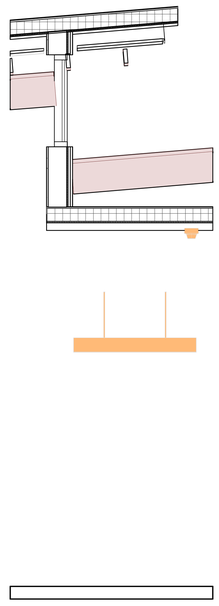
2 AC6.0.1 BLDG C1 - WALL SECTION 2.1
1/2" = 1'-0"



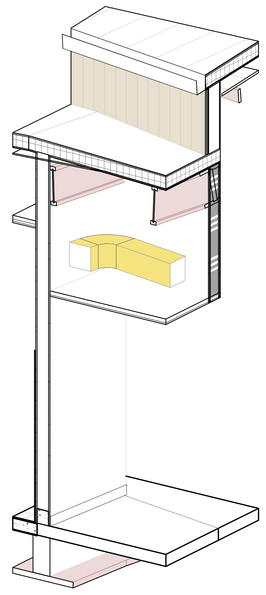
1 AC6.0.1 BLDG C1 - WALL SECTION 1.4
1/2" = 1'-0"



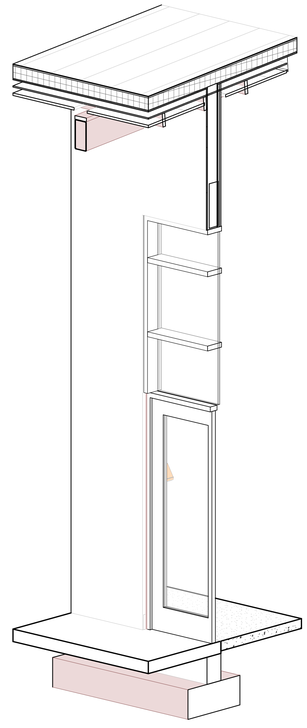
8 BLDG C - WALL SECTION A.1 - ISO - FOR REFERENCE ONLY



7 BLDG C1 - WALL SECTION 2.2 - ISO - FOR REFERENCE ONLY



6 BLDG C1 - WALL SECTION 2.1 - ISO - FOR REFERENCE ONLY



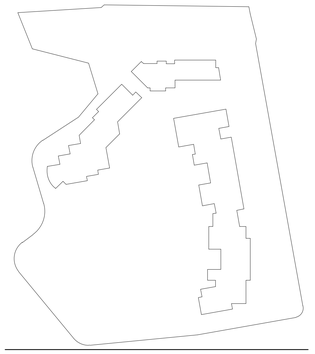
5 BLDG C1 - WALL SECTION 1.4 - ISO - FOR REFERENCE ONLY

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
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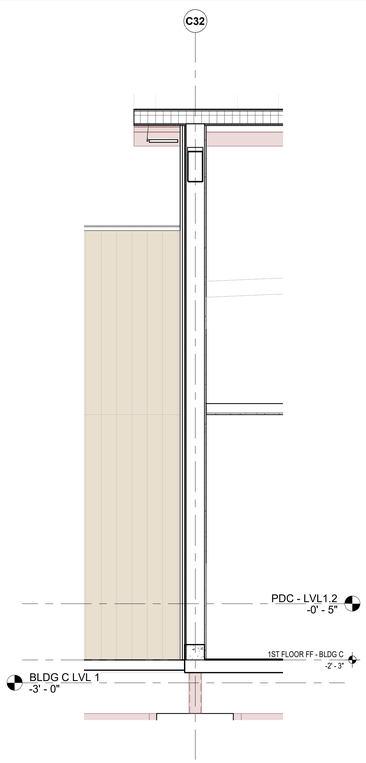
BUILDING C
WALL SECTION

NO. DATE ISSUE

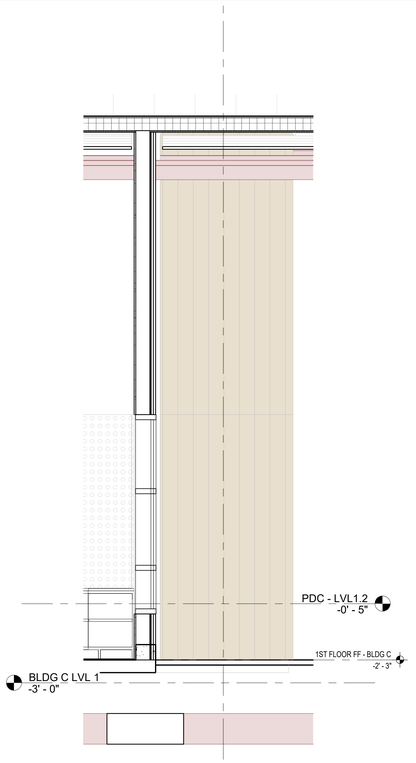
PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
AC6.1.4

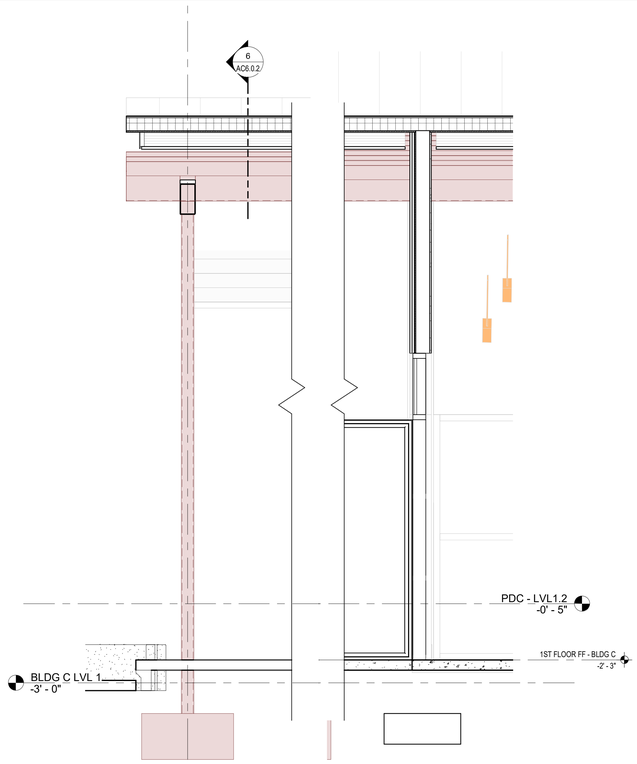
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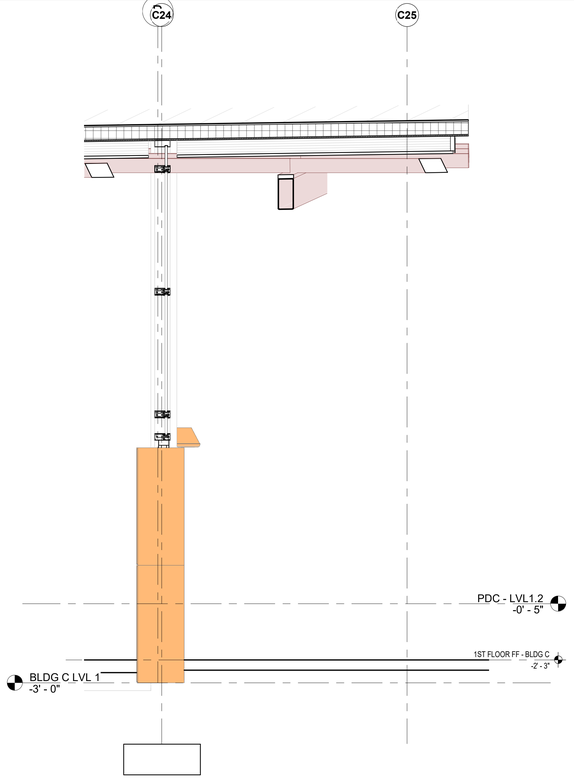
4 AC6.0.2 BLDG C2 - WALL SECTION C.1
1/2" = 1'-0"



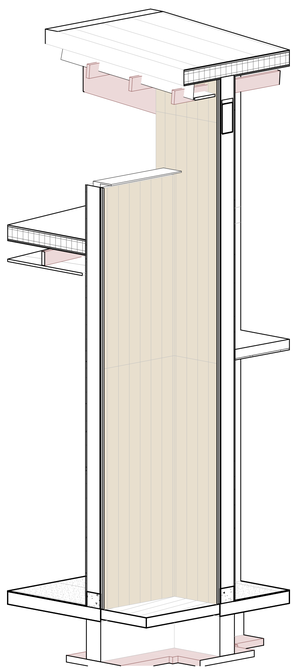
3 AC6.0.2 BLDG C2 - WALL SECTION B.2
1/2" = 1'-0"



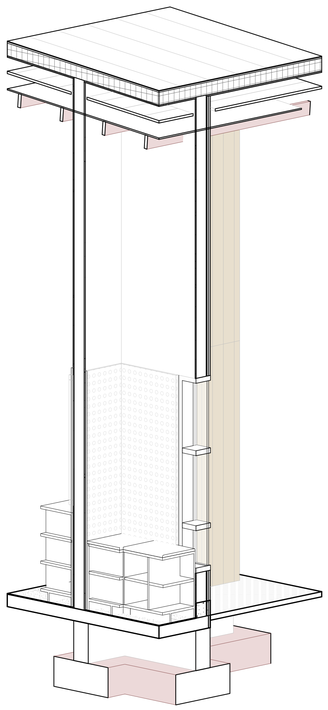
2 AC6.0.2 BLDG C2 - WALL SECTION B.1
1/2" = 1'-0"



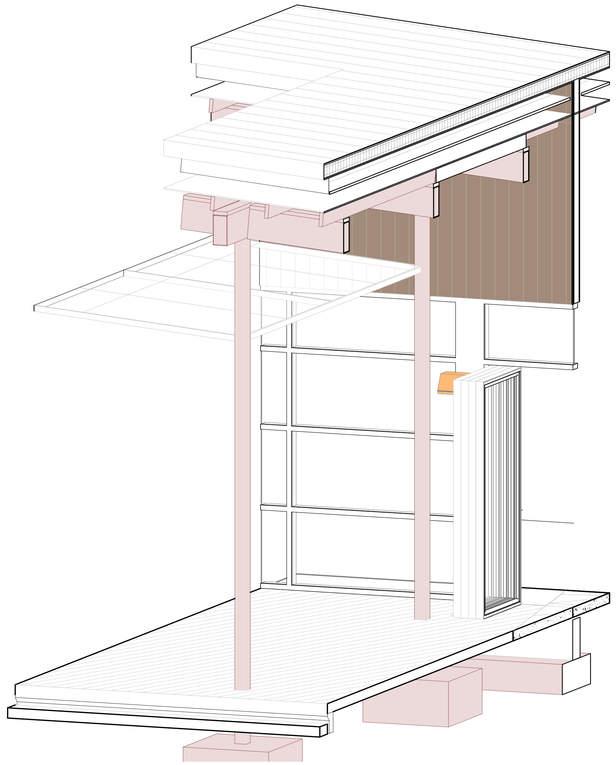
1 AC6.0.2 BLDG C2 - WALL SECTION A.2
1/2" = 1'-0"



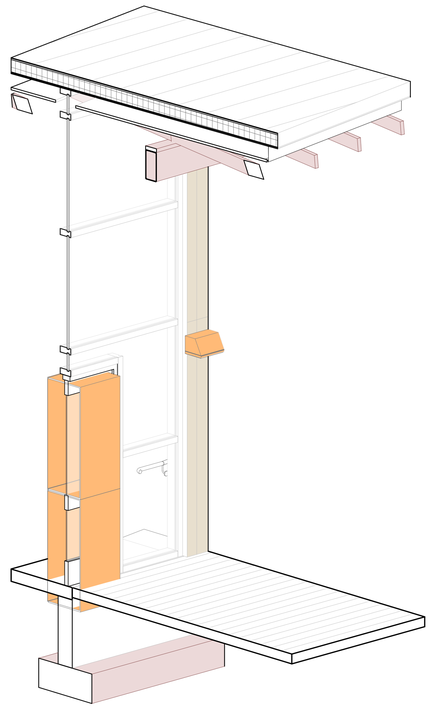
8 BLDG C2 - WALL SECTION C.1 - ISO - FOR REFERENCE ONLY



7 BLDG C2 - WALL SECTION B.2 - ISO - FOR REFERENCE ONLY



6 BLDG C2 - WALL SECTION B.1 - ISO - FOR REFERENCE ONLY



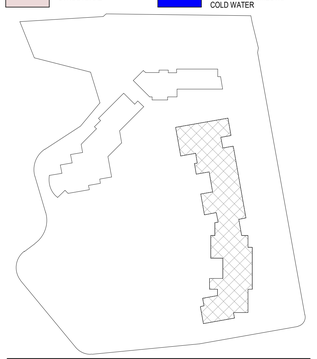
5 BLDG C2 - WALL SECTION A.2 - ISO - FOR REFERENCE ONLY

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



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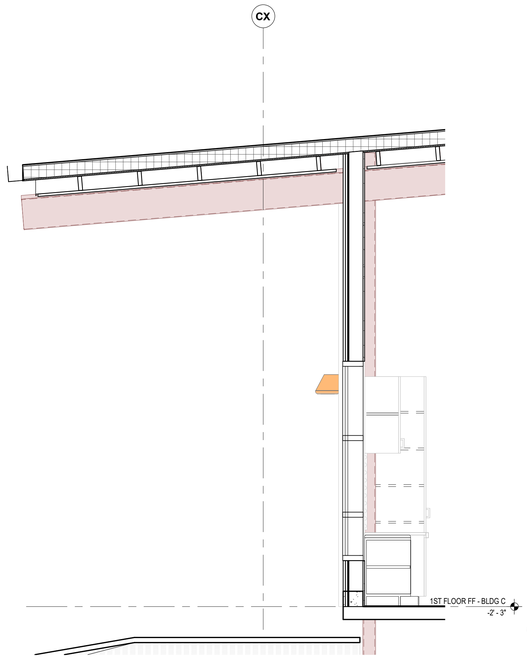
BUILDING C
WALL SECTION

NO. DATE ISSUE

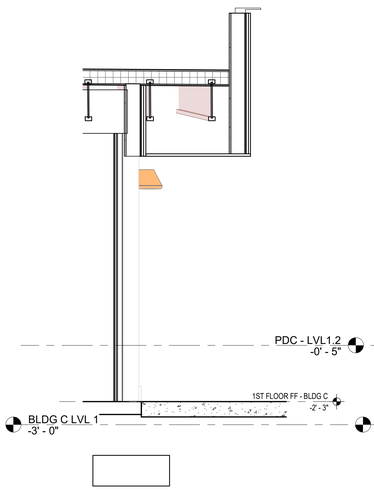
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DATE: 02/28/2020

DRAWING
AC6.1.5

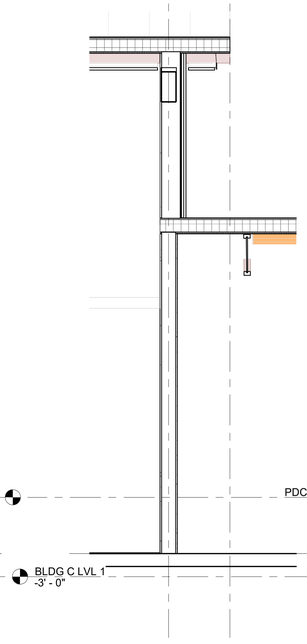
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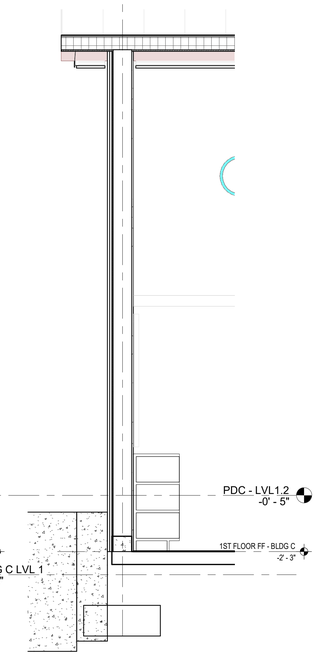
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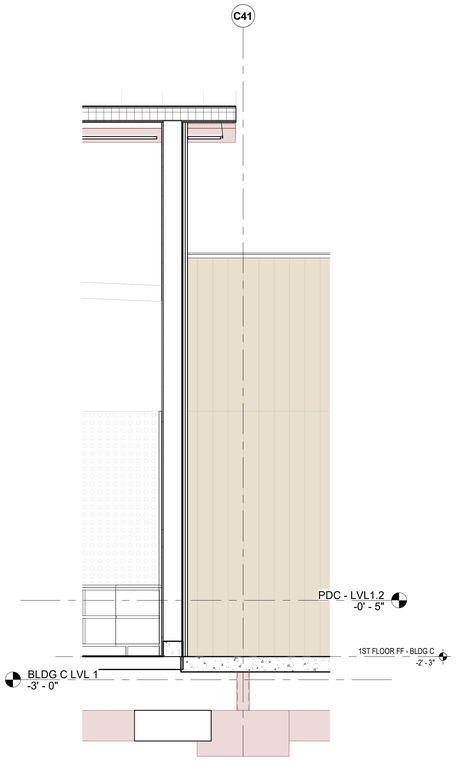
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1/2" = 1'-0"



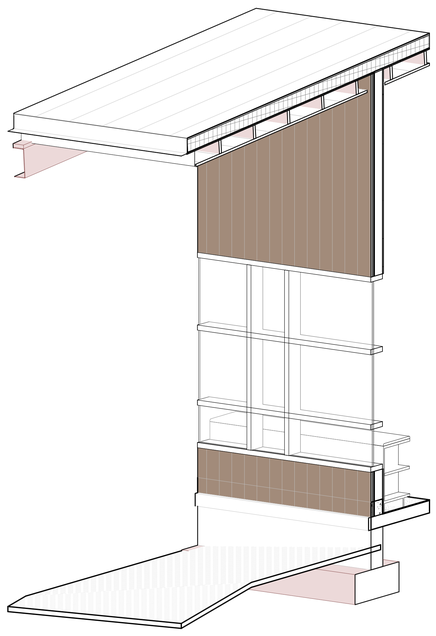
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1/2" = 1'-0"



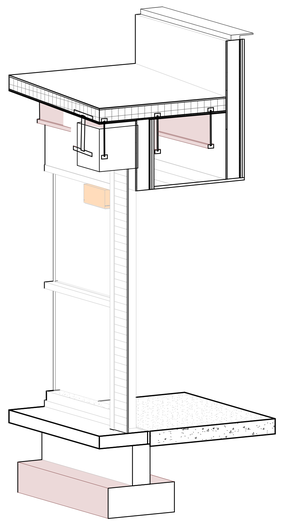
2 AC6.0.2 BLDG C2 - WALL SECTION D.1
1/2" = 1'-0"

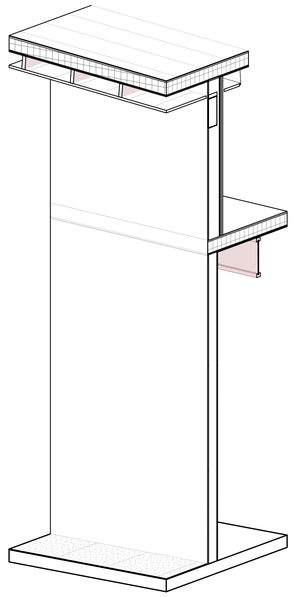


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1/2" = 1'-0"

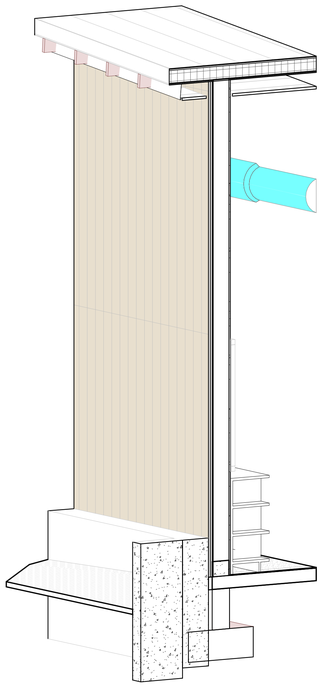


9 BLDG C2 - WALL SECTION D.3 - ISO - FOR REFERENCE ONLY

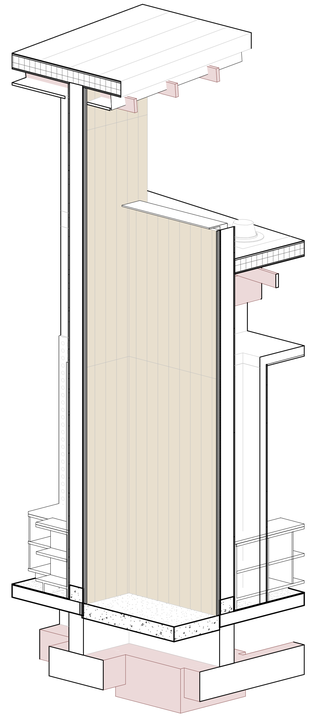




8 BLDG C2 - WALL SECTION D.2 - ISO - FOR REFERENCE ONLY



7 BLDG C2 - WALL SECTION D.1 - ISO - FOR REFERENCE ONLY



6 BLDG C2 - WALL SECTION C.2 - ISO - FOR REFERENCE ONLY

10 BLDG C2 - WALL SECTION 1.1 - ISO - FOR REFERENCE ONLY

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DEL MAR UNION SCHOOL DISTRICT
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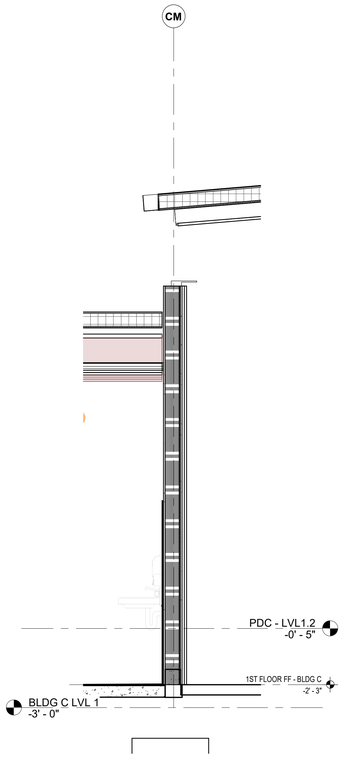
BUILDING C
WALL SECTION

NO. DATE ISSUE

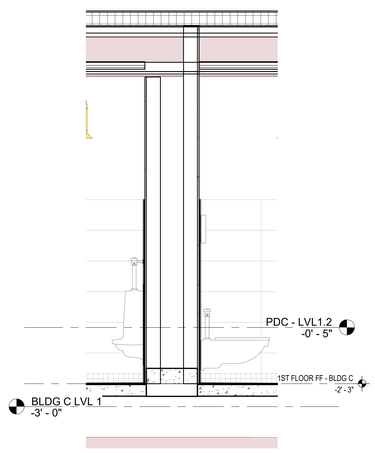
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DRAWING
AC6.1.6

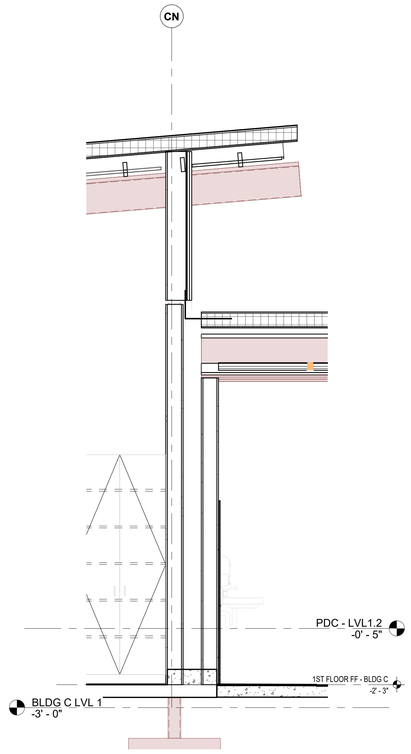
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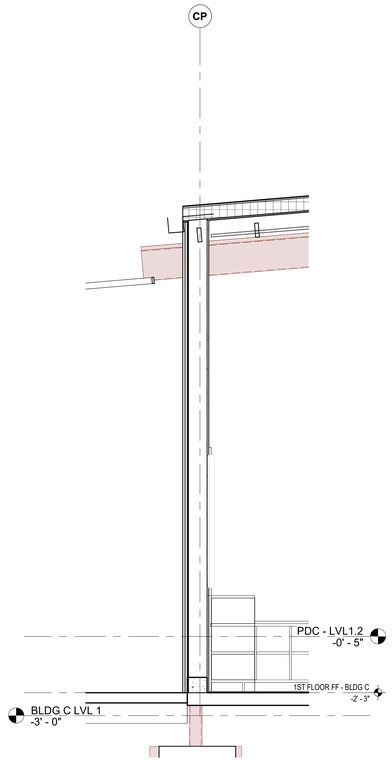
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AC6.0.2 1/2" = 1'-0"



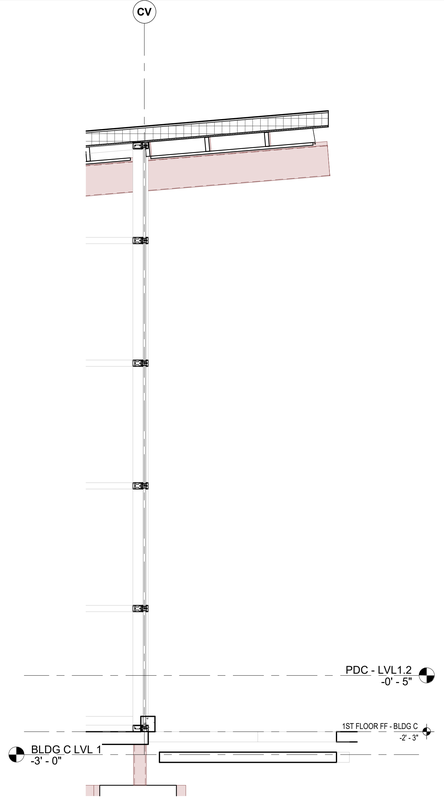
4 BLDG C2 - WALL SECTION 2.3
AC6.0.2 1/2" = 1'-0"



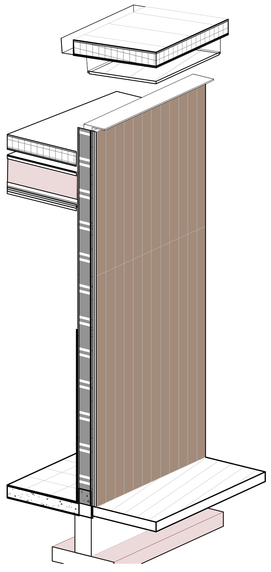
3 BLDG C2 - WALL SECTION 2.2
AC6.0.2 1/2" = 1'-0"



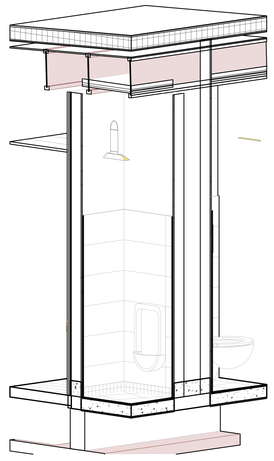
2 BLDG C2 - WALL SECTION 2.1
AC6.0.2 1/2" = 1'-0"



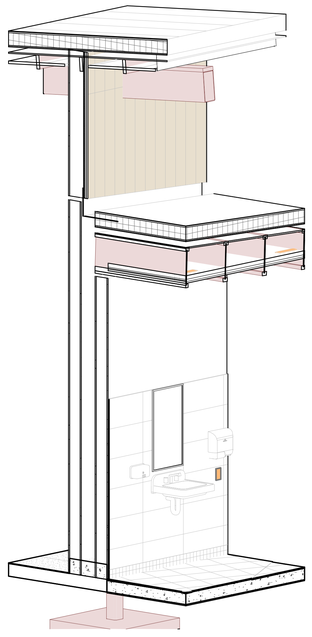
1 BLDG C2 - WALL SECTION 1.2
AC6.0.2 1/2" = 1'-0"



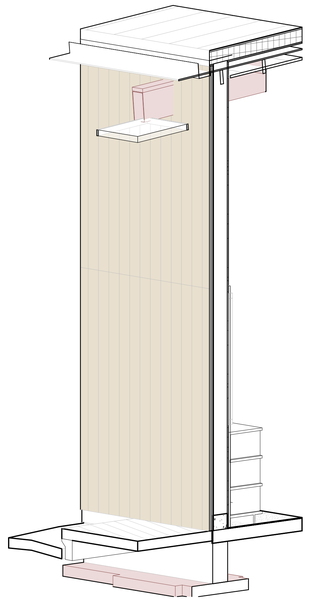
9 BLDG C2 - WALL SECTION 2.3 - ISO - FOR REFERENCE ONLY



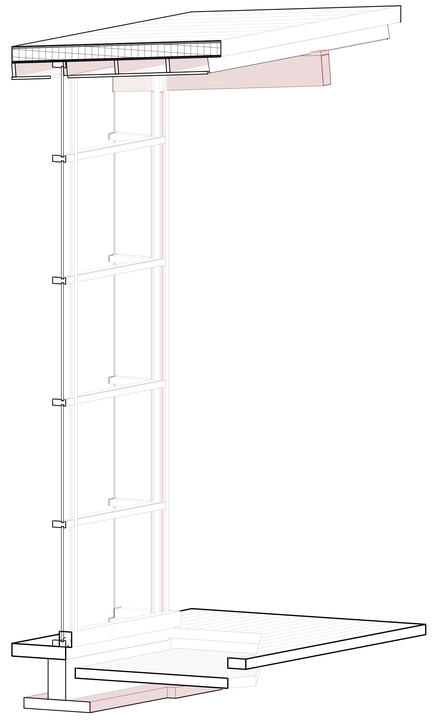
10 BLDG C2 - WALL SECTION 2.4 - ISO - FOR REFERENCE ONLY



8 BLDG C2 - WALL SECTION 2.2 - ISO - FOR REFERENCE ONLY



7 BLDG C2 - WALL SECTION 2.1 - ISO - FOR REFERENCE ONLY



6 BLDG C2 - WALL SECTION 1.2 - ISO - FOR REFERENCE ONLY

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DEL MAR UNION SCHOOL DISTRICT
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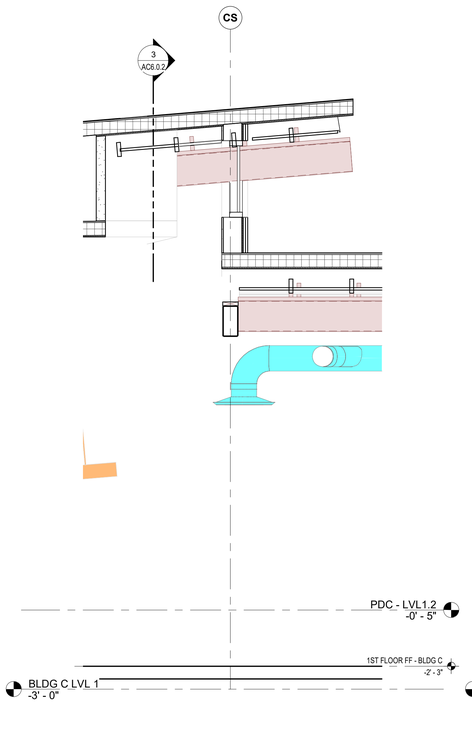
BUILDING C
WALL SECTION

NO. DATE ISSUE

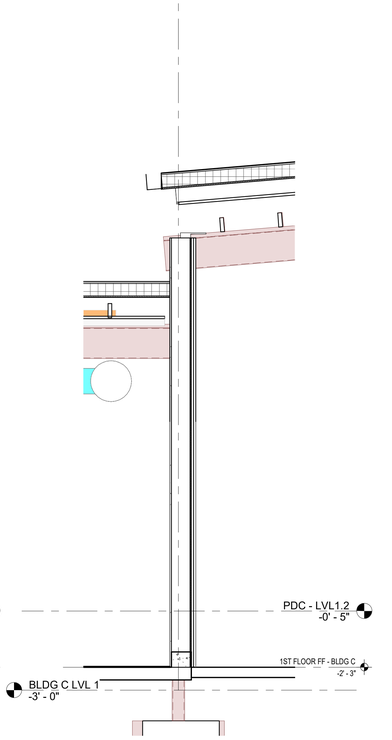
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DRAWING
AC6.1.7

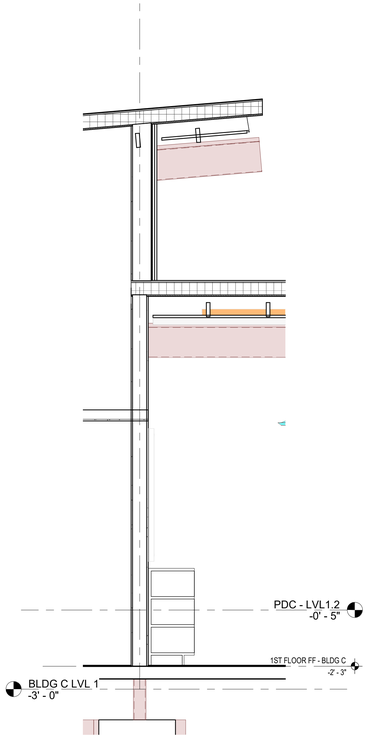
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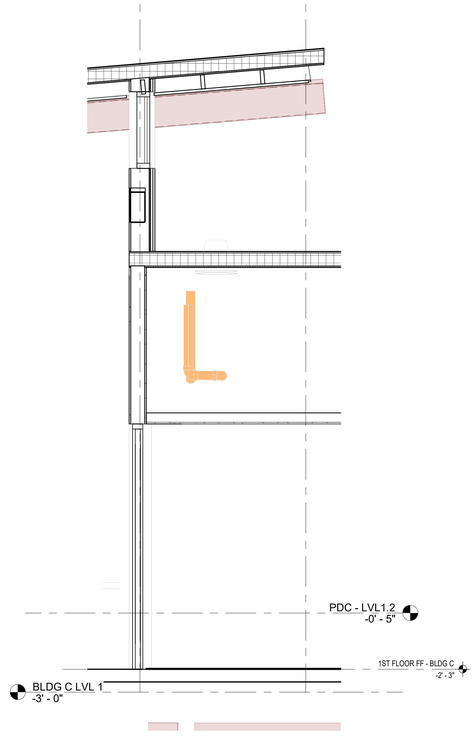
5 AC6.0.2 BLDG C2 - WALL SECTION 4.1
1/2" = 1'-0"



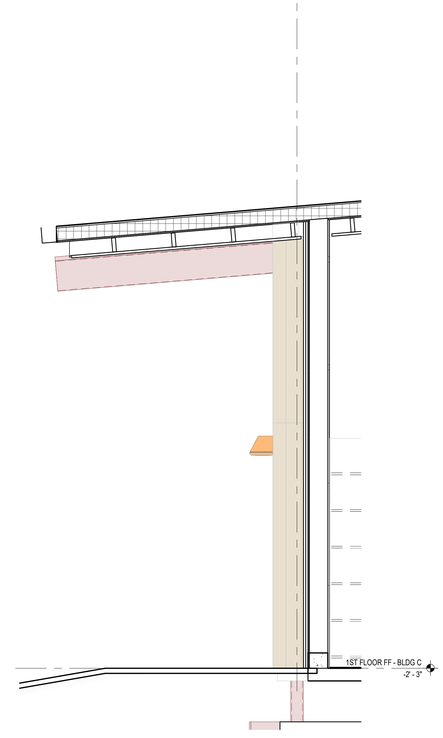
4 AC6.0.2 BLDG C2 - WALL SECTION 3.4
1/2" = 1'-0"



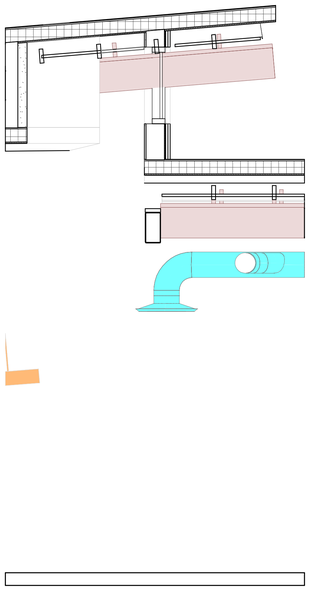
3 AC6.0.2 BLDG C2 - WALL SECTION 3.3
1/2" = 1'-0"



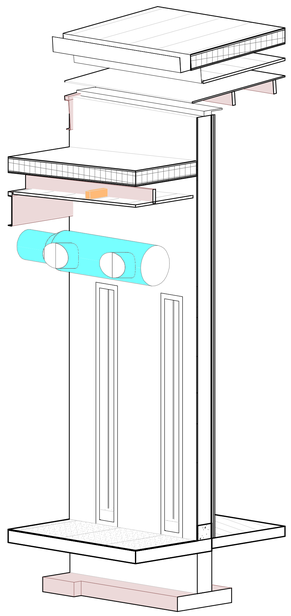
2 AC6.0.2 BLDG C2 - WALL SECTION 3.2
1/2" = 1'-0"



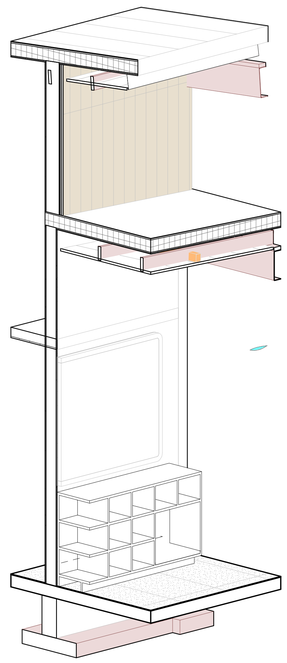
1 AC6.0.2 BLDG C2 - WALL SECTION 3.1
1/2" = 1'-0"



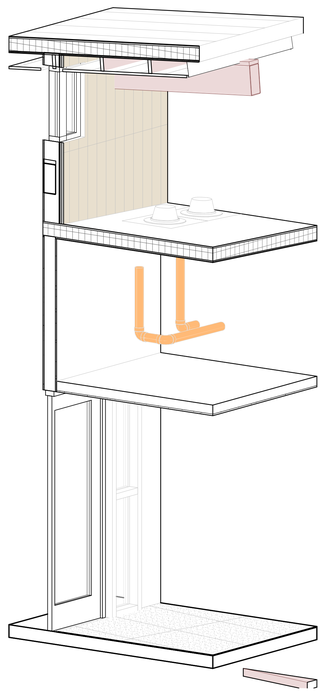
10 BLDG C2 - WALL SECTION 4.1 - ISO - FOR REFERENCE ONLY



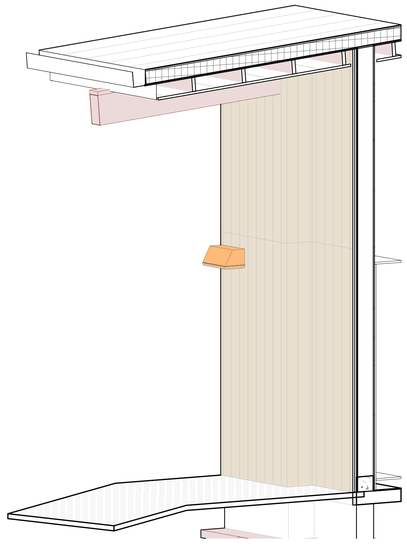
9 BLDG C2 - WALL SECTION 3.4 - ISO - FOR REFERENCE ONLY



8 BLDG C2 - WALL SECTION 3.3 - ISO - FOR REFERENCE ONLY



7 BLDG C2 - WALL SECTION 3.2 - ISO - FOR REFERENCE ONLY



6 BLDG C2 - WALL SECTION 3.1 - ISO - FOR REFERENCE ONLY

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DEL MAR UNION SCHOOL DISTRICT
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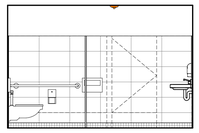
BUILDING C
WALL SECTION

NO. DATE ISSUE

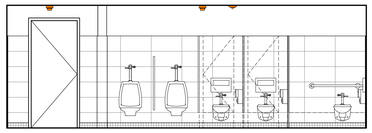
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DRAWING
AC6.1.8

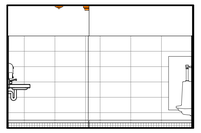
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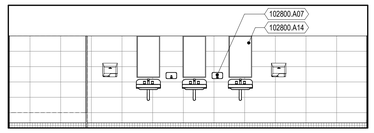
4 AC7.0.1 BLDG C - INTERIOR ELEVATION - 116 W
1/4" = 1'-0"



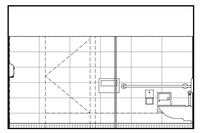
3 AC7.0.1 BLDG C - INTERIOR ELEVATION - 116 S
1/4" = 1'-0"



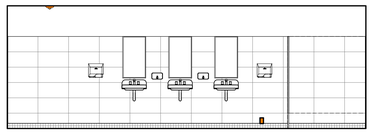
2 AC7.0.1 BLDG C - INTERIOR ELEVATION - 116 E
1/4" = 1'-0"



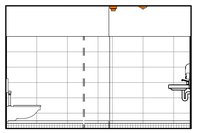
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1/4" = 1'-0"



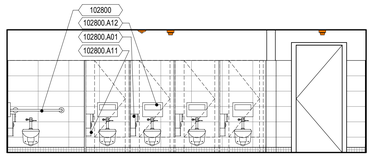
8 AC7.0.1 BLDG C - INTERIOR ELEVATION - 117 W
1/4" = 1'-0"



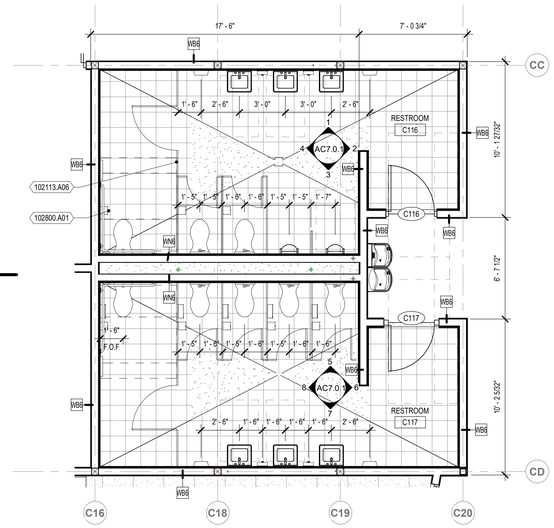
7 AC7.0.1 BLDG C - INTERIOR ELEVATION - 117 S
1/4" = 1'-0"



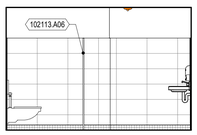
6 AC7.0.1 BLDG C - INTERIOR ELEVATION - 117 E
1/4" = 1'-0"



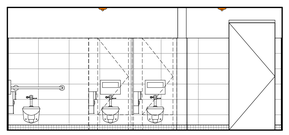
5 AC7.0.1 BLDG C - INTERIOR ELEVATION - 117 N
1/4" = 1'-0"



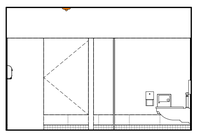
21 AC2.1.1 BLDG C - ENLARGED FLOOR PLAN - RESTROOMS C128-129
1/4" = 1'-0"



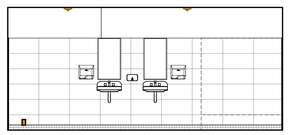
12 AC7.0.1 BLDG C - INTERIOR ELEVATION - 121 W
1/4" = 1'-0"



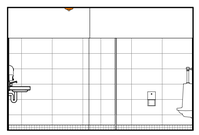
11 AC7.0.1 BLDG C - INTERIOR ELEVATION - 121 S
1/4" = 1'-0"



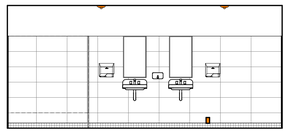
10 AC7.0.1 BLDG C - INTERIOR ELEVATION - 121 E
1/4" = 1'-0"



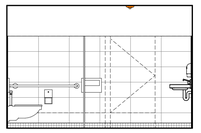
9 AC7.0.1 BLDG C - INTERIOR ELEVATION - 121 N
1/4" = 1'-0"



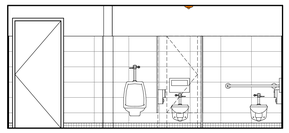
16 AC7.0.1 BLDG C - INTERIOR ELEVATION - 122 W
1/4" = 1'-0"



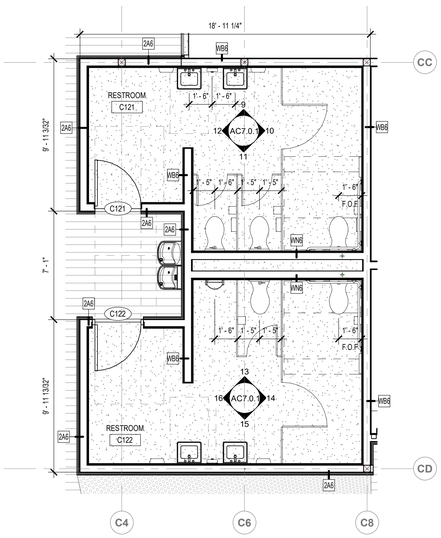
15 AC7.0.1 BLDG C - INTERIOR ELEVATION - 122 S
1/4" = 1'-0"



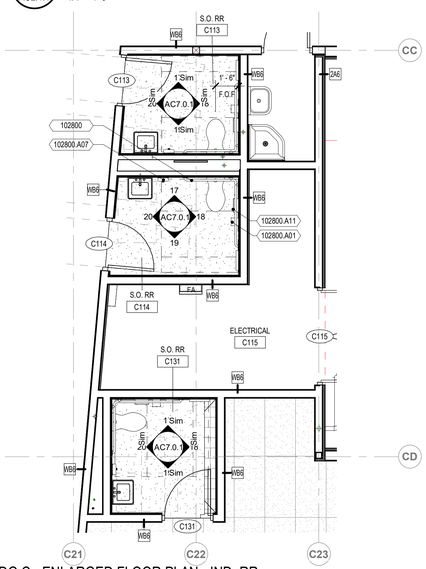
14 AC7.0.1 BLDG C - INTERIOR ELEVATION - 122 E
1/4" = 1'-0"



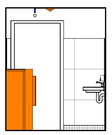
13 AC7.0.1 BLDG C - INTERIOR ELEVATION - 122 N
1/4" = 1'-0"



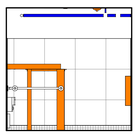
22 AC2.1.1 BLDG C - ENLARGED FLOOR PLAN - SPECIAL C162
1/4" = 1'-0"



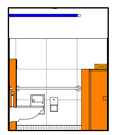
23 AC2.1.1 BLDG C - ENLARGED FLOOR PLAN - IND. RR
1/4" = 1'-0"



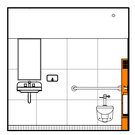
20 AC7.0.1 BLDG C - INTERIOR ELEVATION - 144 W
1/4" = 1'-0"



19 AC7.0.1 BLDG C - INTERIOR ELEVATION - 144 S
1/4" = 1'-0"



18 AC7.0.1 BLDG C - INTERIOR ELEVATION - 144 E
1/4" = 1'-0"



17 AC7.0.1 BLDG C - INTERIOR ELEVATION - 144 N
1/4" = 1'-0"

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

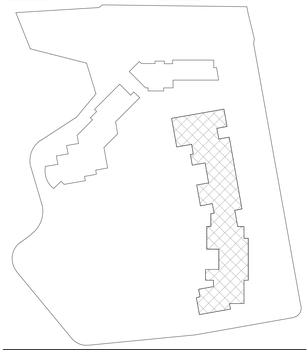
102113.A06	
102800	SECTION 102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES
102800.A01	TOILET TISSUE (ROLL) DISPENSER-TPD-1 - RECESSED (MAX 3" PROJECTION)
102800.A07	LIQUID-SOAP DISPENSER - SD-1
102800.A11	SANITARY-NAPKIN DISPOSAL UNIT - SND-1
102800.A12	SEAT-COVER DISPENSER - SCD-1
102800.A14	MIRROR - M-1

LEGEND

- CPT-1 - CARPET TILE
- CT-1 - PORCELAIN TILE - INTERIOR FLOOR
- CT-2 - PORCELAIN TILE - INTERIOR FLOOR
- CT-3 - PORCELAIN TILE - INTERIOR WALL
- CT-4 - PORCELAIN TILE - INTERIOR WALL
- PC-1 - POLISHED CONCRETE
- LVT-1 - LVT
- PF-1 - PAINT FINISH - SEE FINISH PLAN FOR MORE INFORMATION
- VCTWP - VINYL COVER TACKABLE WALL PANEL
- VWC-1 - WRITABLE VINYL WALL COVERING

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



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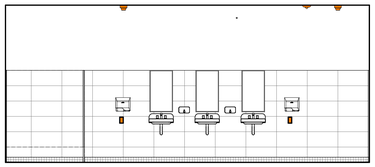
BUILDING C
ENLARGED RR PLANS & INTERIOR ELEVATIONS

NO. DATE ISSUE

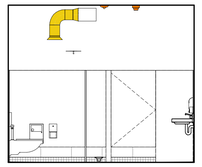
PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
AC7.0.1

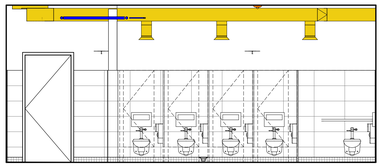
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2/24/2020 7:59:18 AM



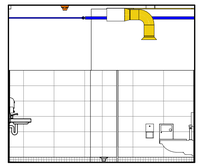
7 AC7.0.2 BLDG C - INTERIOR ELEVATION - 208 W
1/4" = 1'-0"



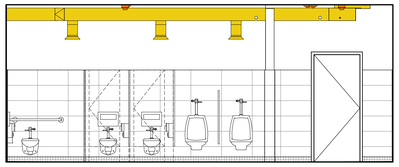
6 AC7.0.2 BLDG C - INTERIOR ELEVATION - 208 S
1/4" = 1'-0"



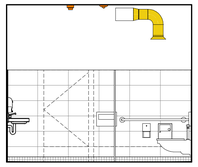
5 AC7.0.2 BLDG C - INTERIOR ELEVATION - 208 E
1/4" = 1'-0"



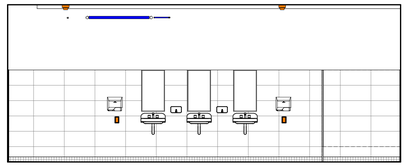
4 AC7.0.2 BLDG C - INTERIOR ELEVATION - 208 N
1/4" = 1'-0"



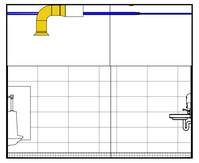
11 AC7.0.2 BLDG C - INTERIOR ELEVATION - 209 W
1/4" = 1'-0"



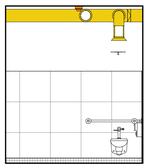
10 AC7.0.2 BLDG C - INTERIOR ELEVATION - 209 S
1/4" = 1'-0"



9 AC7.0.2 BLDG C - INTERIOR ELEVATION - 209 E
1/4" = 1'-0"



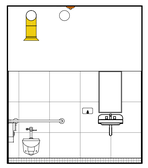
8 AC7.0.2 BLDG C - INTERIOR ELEVATION - 209 N
1/4" = 1'-0"



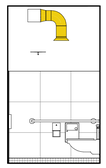
15 AC7.0.2 BLDG C - INTERIOR ELEVATION - 204 W
1/4" = 1'-0"



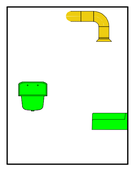
14 AC7.0.2 BLDG C - INTERIOR ELEVATION - 204 S
1/4" = 1'-0"



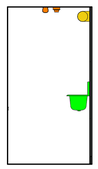
13 AC7.0.2 BLDG C - INTERIOR ELEVATION - 204 E
1/4" = 1'-0"



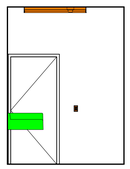
12 AC7.0.2 BLDG C - INTERIOR ELEVATION - 204 N
1/4" = 1'-0"



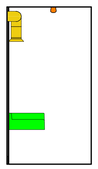
19 AC7.0.2 BLDG C - INTERIOR ELEVATION - 206 W
1/4" = 1'-0"



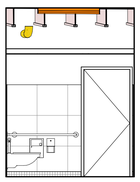
18 AC7.0.2 BLDG C - INTERIOR ELEVATION - 206 S
1/4" = 1'-0"



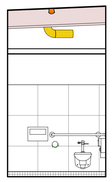
17 AC7.0.2 BLDG C - INTERIOR ELEVATION - 206 E
1/4" = 1'-0"



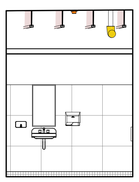
16 AC7.0.2 BLDG C - INTERIOR ELEVATION - 206 N
1/4" = 1'-0"



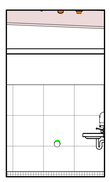
23 AC7.0.2 BLDG C - INTERIOR ELEVATION - 242 W
1/4" = 1'-0"



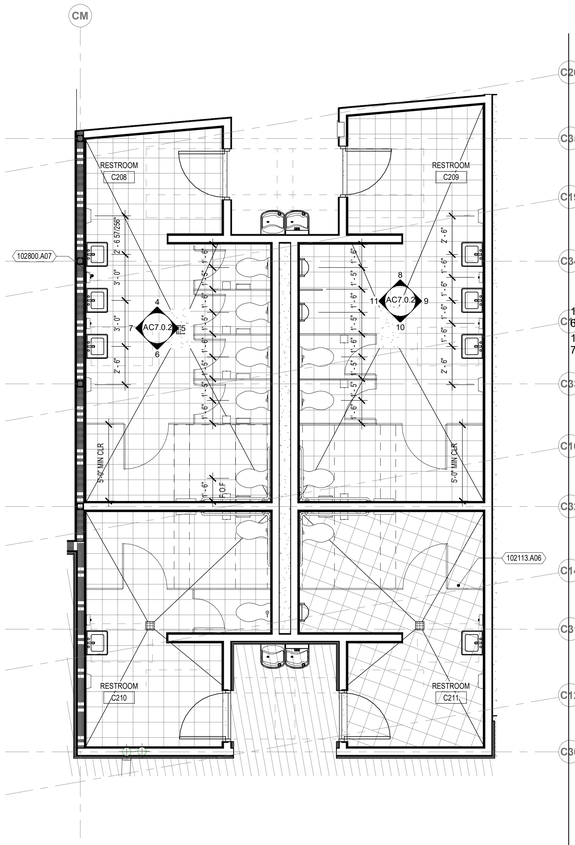
22 AC7.0.2 BLDG C - INTERIOR ELEVATION - 242 S
1/4" = 1'-0"



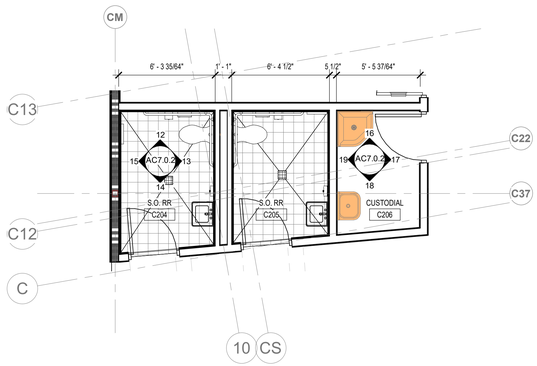
21 AC7.0.2 BLDG C - INTERIOR ELEVATION - 242 E
1/4" = 1'-0"



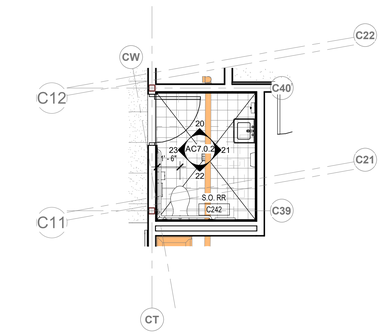
20 AC7.0.2 BLDG C - INTERIOR ELEVATION - 242 N
1/4" = 1'-0"



1 AC2.1.2 BLDG C - ENLARGED RESTROOM PLAN - C2
1/4" = 1'-0"



2 AC2.1.2 BLDG C - ENLARGED RESTROOM PLAN - C21
1/4" = 1'-0"



3 AC2.1.2 BLDG C - ENLARGED RESTROOM PLAN - C22
1/4" = 1'-0"

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

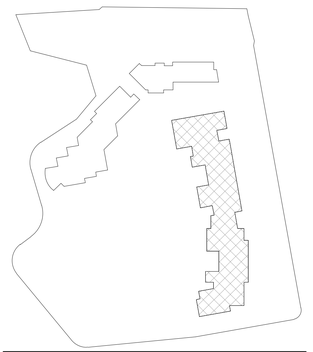
102113.A0
8
102800.A0 LIQUID-SOAP DISPENSER - SD-1
7

LEGEND

- CPT-1 - CARPET TILE
- CT-1 - PORCELAIN TILE - INTERIOR FLOOR
- CT-2 - PORCELAIN TILE - INTERIOR FLOOR
- CT-3 - PORCELAIN TILE - INTERIOR WALL
- CT-4 - PORCELAIN TILE - INTERIOR WALL
- PC-1 - POLISHED CONCRETE
- LVT-1 - LVT
- PF-1 - PAINT FINISH - SEE FINISH PLAN FOR MORE INFORMATION
- VCTWP - VINYL COVER TACKABLE WALL PANEL
- VWC-1 - WRITABLE VINYL WALL COVERING

DISCIPLINE COLOR LEGEND

- ELECTRICAL
- MECHANICAL - EQUIPMENT
- MECHANICAL - RETURN
- MECHANICAL - SUPPLY
- STRUCTURAL
- FIRE PROTECTION - SPRINKLER
- MECHANICAL - SANITARY VENT
- MECHANICAL - EXHAUST
- PLUMBING - STORM DRAIN
- PLUMBING - DOMESTIC COLD WATER



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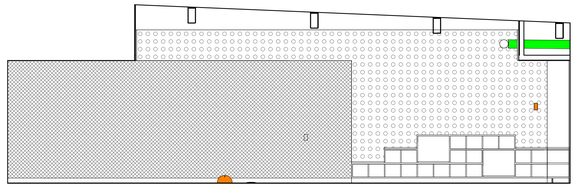
BUILDING C
ENLARGED RR PLANS & INTERIOR ELEVATIONS

NO. DATE ISSUE

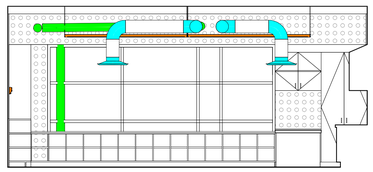
PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
AC7.0.2

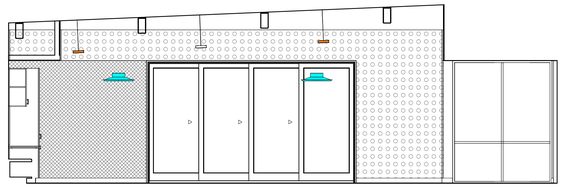
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2/24/2020 7:59:23 AM



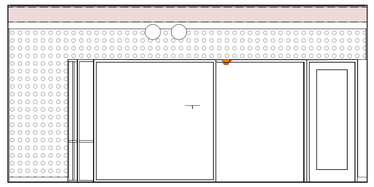
4 BLDG C - INT ELEV - C140 N
1/4" = 1'-0"



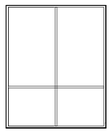
3 BLDG C - INT ELEV - C140 E
1/4" = 1'-0"



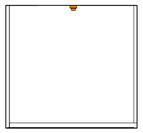
5 BLDG C - INT ELEV - C140 S
1/4" = 1'-0"



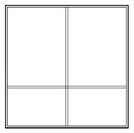
8 BLDG C - INT ELEV - C140 W
1/4" = 1'-0"



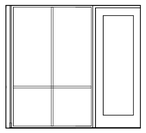
9 BLDG C - INT ELEV - 169 N
1/4" = 1'-0"



11 BLDG C - INT ELEV - 169 E
1/4" = 1'-0"



12 BLDG C - INT ELEV - 169 S
1/4" = 1'-0"



10 BLDG C - INT ELEV - 169 W
1/4" = 1'-0"

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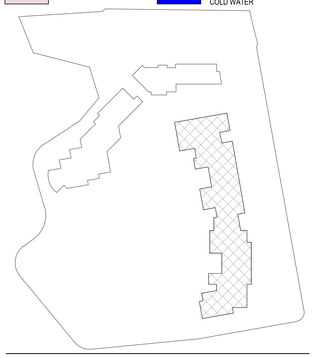
DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

LEGEND

- CPT-1 - CARPET TILE
- CT-1 - PORCELAIN TILE - INTERIOR FLOOR
- CT-2 - PORCELAIN TILE - INTERIOR FLOOR
- CT-3 - PORCELAIN TILE - INTERIOR WALL
- CT-4 - PORCELAIN TILE - INTERIOR WALL
- PC-1 - POLISHED CONCRETE
- LVT-1 - LVT
- PF-1 - PAINT FINISH - SEE FINISH PLAN FOR MORE INFORMATION
- VCTWP - VINYL COVER TACKABLE WALL PANEL
- VWC-1 - WRITABLE VINYL WALL COVERING

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



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BUILDING C
ENLARGED PLANS, INTERIOR ELEVATIONS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

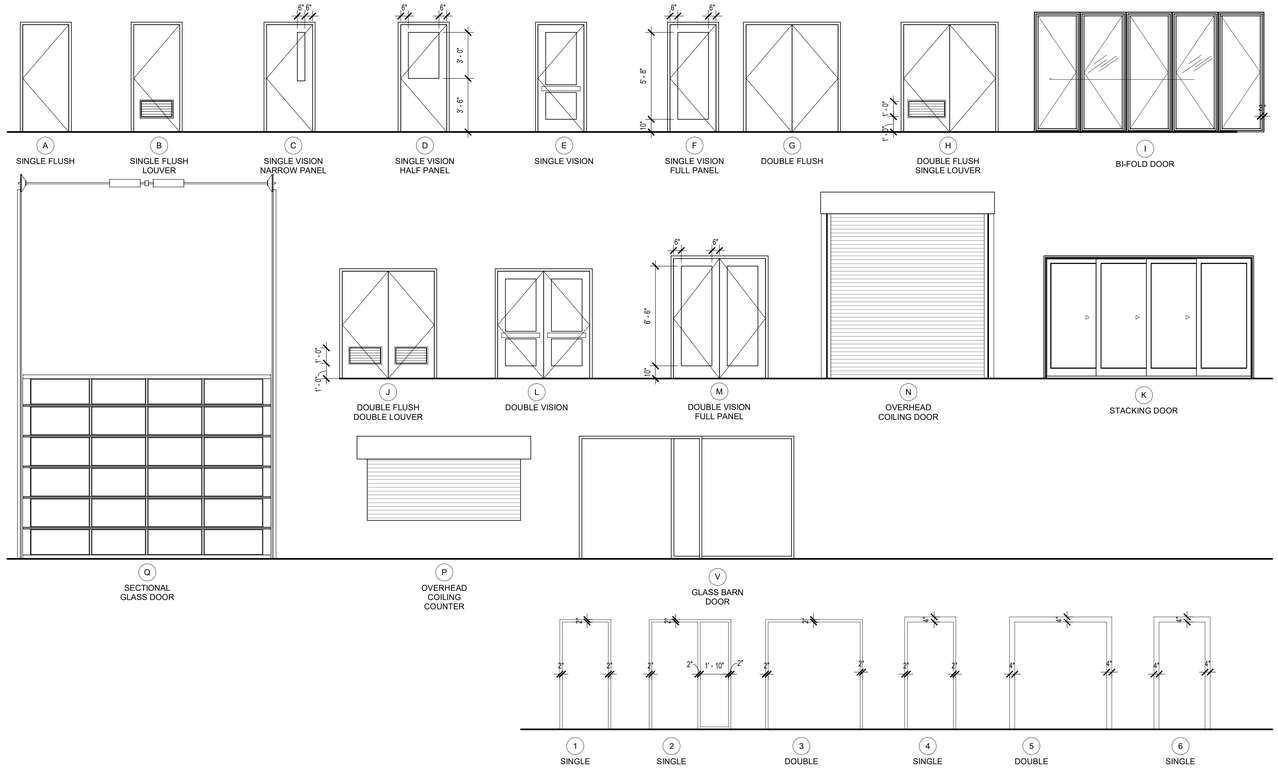
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SCHEDULE-DOOR & GATE - C

NO.	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MAT.	DOOR FIN.	DOOR GLASS	FRAME TYPE	FRAME MAT.	FRAME FIN.	OPENING LABEL	DETAILS HEAD	DETAILS JAMB	DETAILS THRESH	PANIC HDW	Hardware Group	REMARKS
C101A	3' - 0"	7' - 10"	F	ALUM	FF	GL-1	1	ALUM	FF					No		11
C101B	3' - 0"	7' - 10"	D	WD	FF	GL-2	1	HM	FF							
C102A	3' - 0"	7' - 10"	F	ALUM	FF	GL-1	1	ALUM	FF					No		11
C102B	3' - 0"	7' - 10"	D	WD	FF	GL-2	1	HM	FF							
C102C	3' - 0"	7' - 10"	D	WD	FF	GL-2	1	HM	FF							
C103A	3' - 0"	7' - 10"	F	ALUM	FF	GL-1	1	ALUM	FF					No		11
C103B	3' - 0"	7' - 10"	D	WD	FF	GL-2	1	HM	FF							
C103C	3' - 0"	7' - 10"	D	WD	FF	GL-2	1	HM	FF							
C104	3' - 0"	7' - 10"	D	WD	FF	GL-2	1	HM	FF							
C105	3' - 0"	7' - 10"	D	WD	FF	GL-4	1	HM	FF							
C106	3' - 0"	7' - 10"	F	ALUM	FF	GL-1	1	ALUM	FF					No		11
C107	3' - 0"	7' - 10"	D	WD	FF	GL-2	1	HM	FF							
C108A	3' - 0"	7' - 10"	F	ALUM	FF	GL-1	1	ALUM	FF					No		11
C109B	3' - 0"	7' - 10"	F	ALUM	FF	GL-1	1	ALUM	FF					No		11
C110	3' - 0"	7' - 0"	A	HM	FF	-	1	HM	FF					No		11
C111	3' - 0"	7' - 0"	A	HM	FF	-	1	HM	FF					No		11
C112	3' - 0"	7' - 0"	A	HM	FF	-	1	HM	FF							
C113	3' - 0"	7' - 0"	A	WD	FF	-	1	HM	FF							
C114	3' - 0"	7' - 0"	A	WD	FF	-	1	HM	FF							
C115	6' - 0"	7' - 0"	G	WD	FF	GL-2	1	HM	FF							11
C116	3' - 0"	7' - 0"	A	WD	FF	-	1	HM	FF							
C117	3' - 0"	7' - 0"	A	WD	FF	-	1	HM	FF							
C118	3' - 0"	7' - 0"	A	WD	FF	-	1	HM	FF							
C119	3' - 0"	7' - 10"	D	WD	FF	GL-2	1	HM	FF							
C120A	3' - 0"	7' - 10"	F	ALUM	FF	GL-1	1	ALUM	FF							11
C120B	8' - 0"	8' - 0"	N	FF	FF	-	1	FF	FF							11
C121	3' - 0"	7' - 0"	A	HM	FF	-	1	HM	FF					No		11
C122	3' - 0"	7' - 0"	A	HM	FF	-	1	HM	FF					No		11
C130A	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C131	3' - 0"	7' - 0"	A	ALUM	FF	-	1	ALUM	FF							
C132A	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C132B	8' - 0"	8' - 0"	V	-	-	GL-2	1	HM	FF							
C133A	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C133B	8' - 0"	8' - 0"	V	-	-	GL-2	1	HM	FF							
C134	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C135A	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C135B	8' - 0"	8' - 0"	V	-	-	GL-2	1	HM	FF							
C136	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C140A	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C140B	8' - 0"	8' - 0"	V	-	-	GL-2	1	HM	FF							
C141A	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C141B	8' - 0"	8' - 0"	V	-	-	GL-2	1	HM	FF							
C142A	18' - 11"	7' - 10"	I	ALUM	FF	GL-1	-	ALUM	FF					Yes		11
C142B	3' - 0"	7' - 10"	E	ALUM	FF	GL-1	1	ALUM	FF					Yes		11
C143	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C150A	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C150B	8' - 0"	8' - 0"	V	-	-	GL-2	1	HM	FF							
C151A	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C151B	8' - 0"	8' - 0"	V	-	-	GL-2	1	HM	FF							
C152A	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C152B	8' - 0"	8' - 0"	V	-	-	GL-2	1	HM	FF							
C154A	3' - 0"	7' - 10"	F	ALUM	FF	GL-1	1	ALUM	FF					Yes		
C154B	8' - 0"	8' - 0"	V	-	-	GL-2	1	HM	FF							
C155	3' - 0"	7' - 10"	F	ALUM	FF	GL-2	1	ALUM	FF							
C160A	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C160B	8' - 0"	8' - 0"	V	-	-	GL-2	-	-	-							
C161A	19' - 1"	7' - 10"	I	ALUM	FF	GL-1	1	ALUM	FF					Yes		11
C201A	6' - 0"	7' - 0"	L	ALUM	FF	GL-1	1	ALUM	FF					Yes		11
C201B	6' - 0"	7' - 0"	L	ALUM	FF	GL-1	1	ALUM	FF					Yes		11
C201C	6' - 0"	7' - 0"	L	ALUM	FF	GL-1	1	ALUM	FF					Yes		11
C201D	6' - 0"	7' - 0"	L	ALUM	FF	GL-1	1	ALUM	FF					Yes		11
C202	3' - 0"	7' - 0"	D	WD	FF	GL-2	1	ALUM	FF							
C203	3' - 0"	7' - 0"	A	WD	FF	-	1	HM	FF							
C204	3' - 0"	7' - 0"	A	WD	FF	-	1	HM	FF							
C205	3' - 0"	7' - 0"	A	WD	FF	-	1	HM	FF							
C206	3' - 0"	7' - 0"	A	WD	FF	-	1	HM	FF							
C208	3' - 0"	7' - 0"	A	WD	FF	-	1	HM	FF					No		
C209	3' - 0"	7' - 0"	A	WD	FF	-	1	HM	FF					No		
C210	3' - 0"	7' - 0"	A	WD	FF	-	1	HM	FF					No		11
C211	3' - 0"	7' - 0"	A	WD	FF	-	1	HM	FF					No		11
C212	3' - 0"	7' - 0"	A	WD	FF	-	1	ALUM	FF							
C220A	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C221A	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C221B	8' - 0"	8' - 0"	V	-	-	GL-2	1	HM	FF							
C222	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C224A	8' - 0"	8' - 0"	V	-	-	GL-2	1	HM	FF							
C224B	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C225	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C230A	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C230B	8' - 0"	8' - 0"	V	-	-	GL-2	1	HM	FF							
C231A	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C231B	8' - 0"	8' - 0"	V	-	-	GL-2	1	HM	FF					No		
C232A	3' - 0"	7' - 10"	E	ALUM	FF	GL-1	1	ALUM	FF					Yes		11
C232B	16' - 11"	7' - 10"	I	FF	FF	GL-1	1	FF	FF					Yes		11
C232E	13' - 8 3/16"	7' - 10 1/16"	X	HM	FF	GL-4	1	HM	FF							
C232F	13' - 8 3/16"	7' - 10 1/16"	X	HM	FF	GL-4	1	HM	FF							
C232G	13' - 8 3/16"	7' - 10 1/16"	X	HM	FF	GL-4	1	HM	FF							
C232H	13' - 8 3/16"	7' - 10 1/16"	X	HM	FF	GL-4	1	HM	FF							
C232I	13' - 8 3/16"	7' - 10 1/16"	X	HM	FF	GL-4	1	HM	FF							
C232K	13' - 8 3/16"	7' - 10 1/16"	X	HM	FF	GL-4	1	HM	FF							
C232L	13' - 8 3/16"	7' - 10 1/16"	X	HM	FF	GL-4	1	HM	FF							
C233	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C234A	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C234B	8' - 0"	8' - 0"	V	-	-	GL-2	1	HM	FF							
C235	3' - 0"	7' - 10"	F	ALUM	FF	GL-1	1	ALUM	FF							
C240A	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C240B	8' - 0"	8' - 0"	V	-	-	GL-2	1	HM	FF							
C241	3' - 0"	7' - 0"	A	WD	FF	-	1	HM	FF							11
C242	3' - 0"	7' - 0"	A	WD	FF	-	1	HM	FF							
C243A	3' - 0"	7' - 10"	F	ALUM	FF	GL-1	1	ALUM	FF							11
C243B	3' - 0"	7' - 10"	D	WD	FF	GL-2	1	HM	FF							
C243C	8' - 0"	8' - 0"	N	FF	FF	-	1	FF	FF							11
C244	3' - 0"	7' - 0"	A	WD	FF	-	1	HM	FF							11
C245	3' - 0"	7' - 0"	A	WD	FF	-	1	HM	FF							
C247A	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C247B	8' - 0"	8' - 0"	V	-	-	GL-2	1	HM	FF							
C248A	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C248B	8' - 0"	8' - 0"	V	-	-	GL-2	1	HM	FF							
C249B	15' - 0"	7' - 10"	I	FF	FF	GL-1	1	FF	FF					Yes		11
C250A	3' - 0"	7' - 10"	F	WD	FF	GL-2	1	ALUM	FF							
C250B	8' - 0"	8' - 0"	V	-	-	GL-2	1	HM	FF							
C251	3' - 0"	7' - 0"	A	WD	FF	GL-2	1	HM	FF							

Grand total: 112



LEGEND-DOORS

1/4" = 1'-0"

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DOOR SCHEDULE REMARKS

1. NOT USED
2. 90 DEGREE INHIBITOR/ DOOR STOP
3. 1" UNDERCUT
4. MAGNETIC HOLD OPEN
5. DOOR BY FOLDING PARTITION MANUFACTURER.
6. DOOR BELL
7. PEEP HOLE
8. STC - 40 SOUND CONTROL DOOR - 083473
9. STC - 53 SOUND CONTROL DOOR - 083473
10. FIRE RATED ENTRANCE DOOR SYSTEM - 084413
11. PROVIDE 20 MINUTE RATED DOORS.

GENERAL NOTES

1. DIMENSIONS TO EDGE MULLIONS ARE TO FACE OF FRAME.
2. FOR TYPICAL EXTERIOR WINDOW FLASHING DETAIL, SEE
3. REFERENCE WINDOW TYPES FOR DOOR / WINDOW FRAME COMBINATIONS
4. WHEN WINDOW TYPES ARE IMMEDIATELY ADJACENT ONLY ONE VERTICAL MULLION OCCURS, REFERENCE PLANS AND ELEVATIONS, AND WINDOW DETAILS.
5. REFERENCE FINISH SCHEDULES FOR WINDOW SHADE LOCATIONS
6. INSTALL WINDOW SHADES PER TYPICAL DETAILS # 14, 15 & 16 / A9.4.1
7. PROVIDE DRIP EDGE AT EXTERIOR ALUMINUM DOOR HEADS, BY DOOR MANUFACTURER, FINISH TO MATCH.
8. ALL CLASSROOM DOORS STC - 31 - 081416
9. FOR DOOR HARDWARE TYPES, REFER TO SPEC SECTION 087100
10. PROVIDE BACKING PER 8/A9.9.1 AT ALL WALL MOUNTED DOOR STOPS.

SCHEDULE NOTES

GLASS TYPES

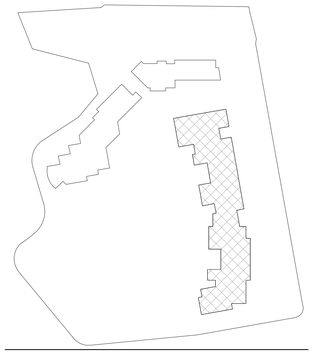
GL-1	INSULATED UNIT, TINTED, TEMPERED - 088000
GL-2	1/2", CLEAR, TEMPERED - 088000
GL-3	1/4" SINGLE VISION, TINTED, TEMPERED - 088000
GL-4	1/4" SINGLE VISION, CLEAR, TEMPERED - 088000
GL-5	SPANDREL, TEMPERED - 088000
GL-6	ACOUSTICAL, LAMINATED, CLEAR - 088000
GL-7	INSULATED UNIT, LAMINATED, TRANSPARENT COLORED - 088000
COLOR 1	
COLOR 2	
GL-8	FIRE RATED GLASS - 60 MIN - 088000
GL-9	FIRE RATED GLASS - 45 MIN - 088000
GL-10	INSULATED UNIT, LAMINATED, OPAQUE COLORED - 088000

MATERIALS

ALUM	ALUMINUM
HM	HOLLOW METAL
WD	WOOD
STL	STEEL
FG	FULL GLASS
SS	STAINLESS STEEL
FF	FACTORY FINISH

WINDOW FRAME TYPES

SF-1	ALUMINUM STOREFRONT - CENTER GLAZING - 084113
CW-1	ALUMINUM CURTAIN WALL - 6" DEEP - 084413
CW-2	ALUMINUM CURTAIN WALL - 7 1/2" DEEP - 084413
CW-3	ALUMINUM CURTAIN WALL - 5" DEEP - 60 MIN RATED - 084413



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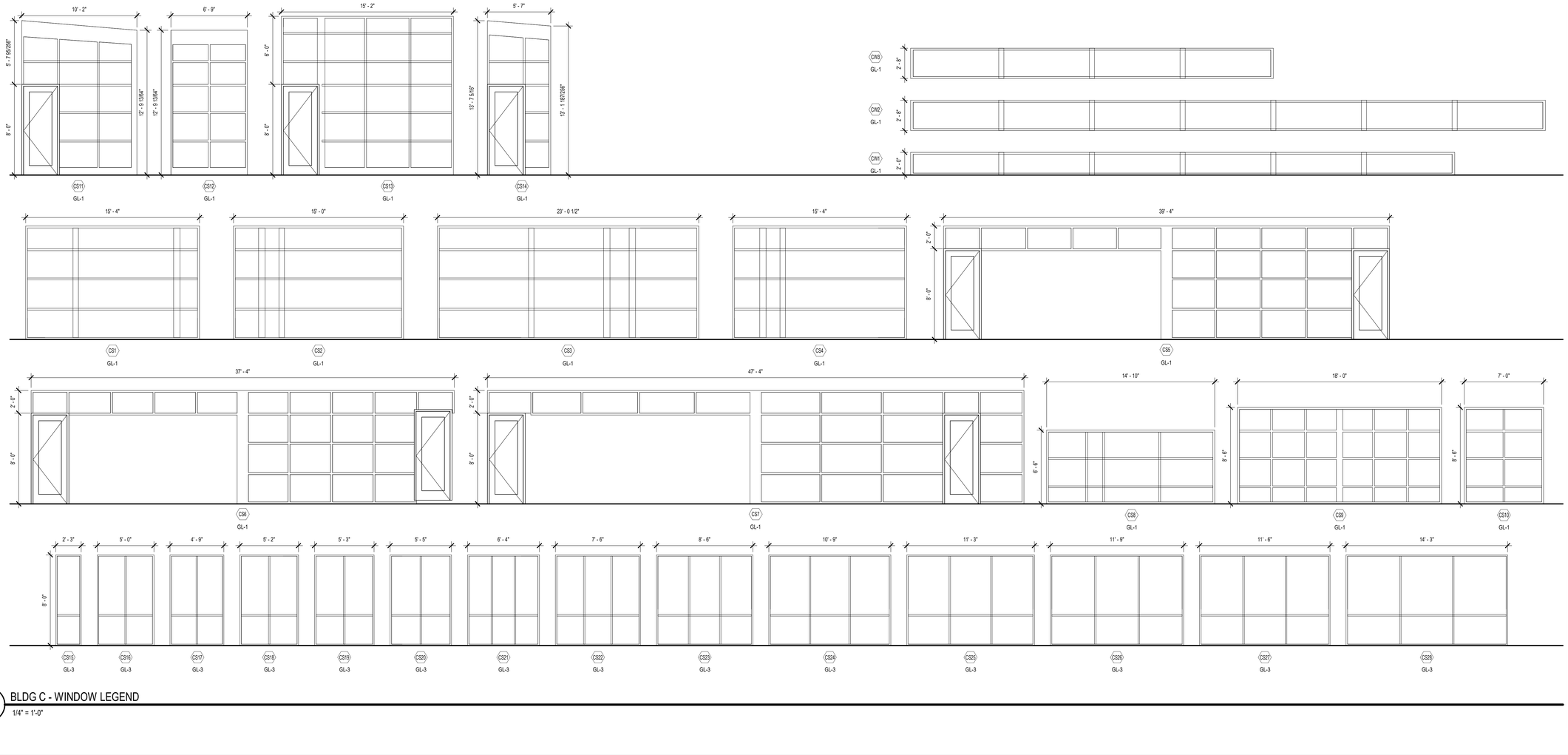
BUILDING C
DOOR SCHEDULES

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

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AC8.0.1

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2/24/2020 7:59:43 AM



BLDG C - WINDOW LEGEND

1/4" = 1'-0"

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12/4/2020 7:39:45 AM

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DEL MAR UNION SCHOOL DISTRICT

DEL MAR HEIGHTS SCHOOL REBUILD

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BUILDING C

WINDOW SCHEDULS

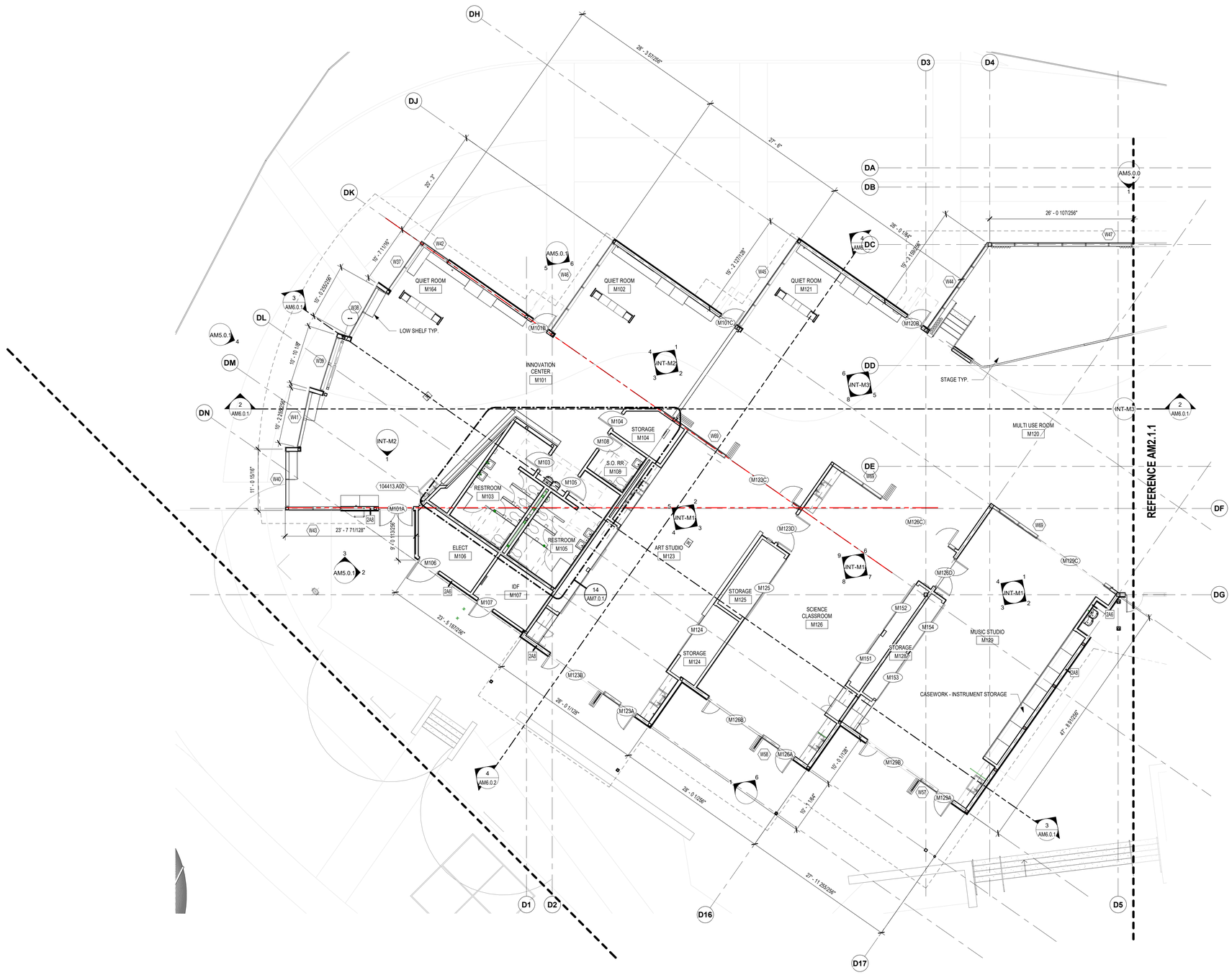
NO. DATE ISSUE

PROJECT NO: 19009

DATE: 02/28/2020

DRAWING

AC8.02



1 BLDG M - FLOOR PLAN M1
1/8" = 1'-0"

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER

FOR PLAN REVIEW ONLY

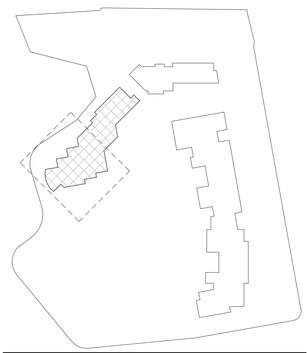
DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

WALL LEGEND

- XX — WALL TYPES PER SHEET A2.0.1
- NON-RATED PARTITION - PER WALL TYPE
- 1 HOUR RATED FIRE BARRIER - PER WALL TYPE - SEE NOTE 8
- 1 HOUR RATED FIRE PARTITION - PER WALL TYPE - SEE NOTE 8
- 1 HOUR RATED SHAFT WALL - PER WALL TYPE - SEE NOTE 8

GENERAL NOTES

1. FINISH FLOOR PER CIVIL
2. DOOR FRAMES LOCATED NEAR ADJACENT WALLS OR CASEWORK TO BE 4" FROM INSIDE CORNER, U.N.O.
3. COORDINATE AND CONFIRM EXACT LOCATIONS OF ALL FLOOR MOUNTED OUTLETS PRIOR TO CONCRETE PLACEMENT, SEE ELECT.
4. FOR TYPICAL WALL FRAMING DETAILS, SEE SHEET A9.6.1 & A9.6.2
5. AREAS WITH DRAINS OR SCUPPERS SHALL HAVE 2% MAX. SLOPE IN ALL DIRECTIONS.
6. FLOOR DRAINS SHALL HAVE 1/2" MAX. STRAINER OPENINGS IN ALL DIRECTIONS.
7. FOR FLOOR FINISH PLANS SEE ID SHEETS.
8. AT RATED WALLS, PROVIDE 1" HIGH PAINTED STENCIL LETTERS ABOVE ACCESSIBLE CEILING SPACE AT 30' INTERVALS WORDING:
   - 1HR FIRE BARRIER - PROTECT ALL OPENINGS
   - 1HR FIRE PARTITION - PROTECT ALL OPENINGS
   - 1HR SHAFT WALL - PROTECT ALL OPENINGS
9. SECOND FLOOR AIR TRANSFER DUCTS ARE REQUIRED TO BE PROTECTED AT ANNULAR SPACE AROUND DUCT PENETRATIONS PER DETAIL - TYP.



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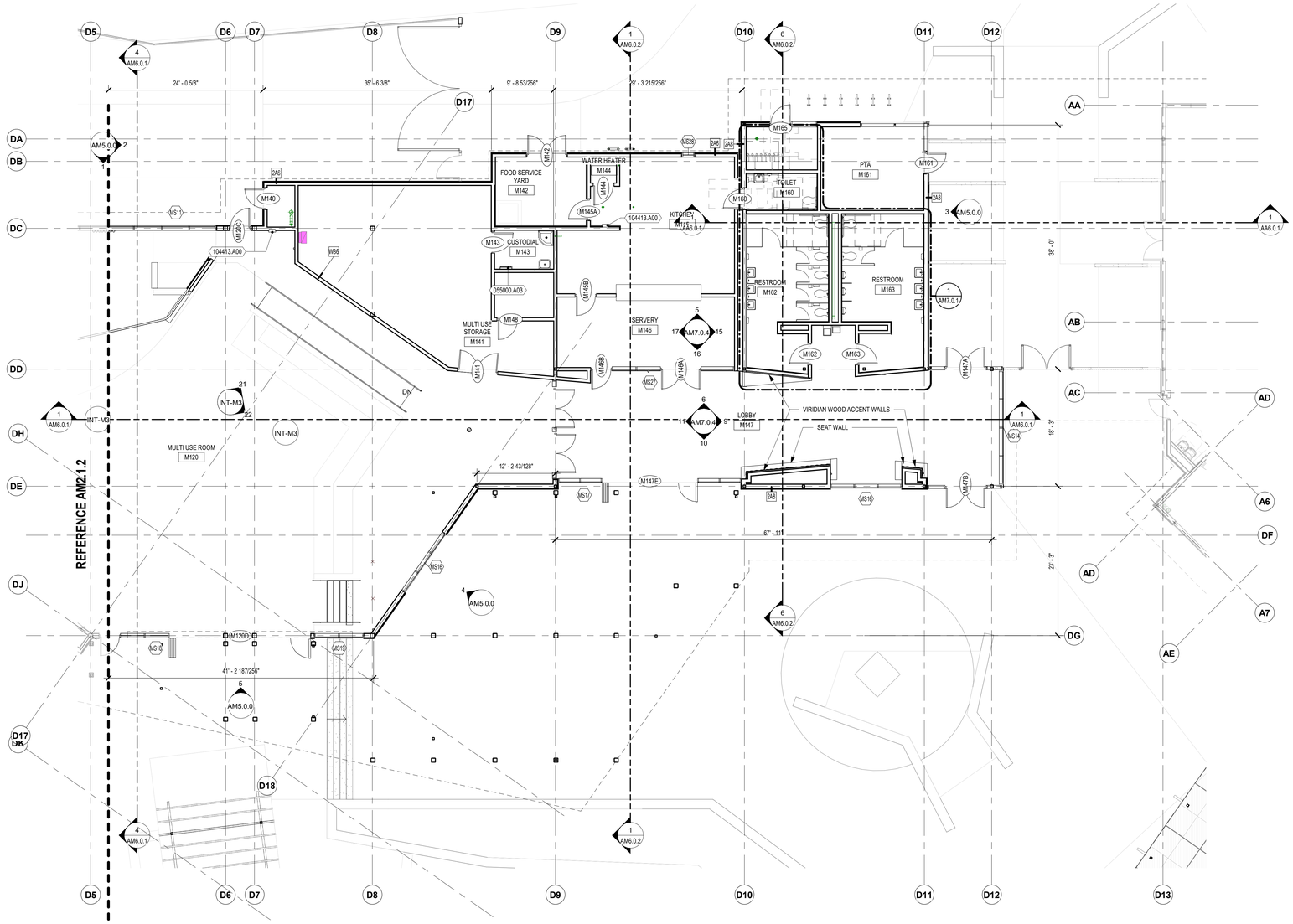
BUILDING M
FLOOR PLAN - M1

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
AM2.1.1

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2/24/2020 7:59:50 AM



1 BLDG M - FLOOR PLAN M2

1/8" = 1'-0"

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER

FOR PLAN REVIEW ONLY

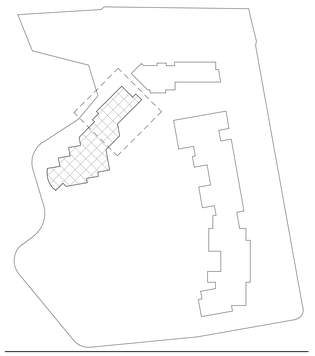
DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

WALL LEGEND

- XX — WALL TYPES PER SHEET A2.0.1
- NON-RATED PARTITION - PER WALL TYPE
- 1 HOUR RATED FIRE BARRIER - PER WALL TYPE - SEE NOTE 8
- 1 HOUR RATED FIRE PARTITION - PER WALL TYPE - SEE NOTE 8
- 1 HOUR RATED SHAFT WALL - PER WALL TYPE - SEE NOTE 8

GENERAL NOTES

1. FINISH FLOOR PER CIVIL
2. DOOR FRAMES LOCATED NEAR ADJACENT WALLS OR CASEWORK TO BE 4" FROM INSIDE CORNER, U.N.O.
3. COORDINATE AND CONFIRM EXACT LOCATIONS OF ALL FLOOR MOUNTED OUTLETS PRIOR TO CONCRETE PLACEMENT, SEE ELECT.
4. FOR TYPICAL WALL FRAMING DETAILS, SEE SHEET A9.6.1 & A9.6.2
5. AREAS WITH DRAINS OR SCUPPERS SHALL HAVE 2% MAX. SLOPE IN ALL DIRECTIONS.
6. FLOOR DRAINS SHALL HAVE 1/2" MAX. STRAINER OPENINGS IN ALL DIRECTIONS.
7. FOR FLOOR FINISH PLANS SEE ID SHEETS.
8. AT RATED WALLS, PROVIDE 1" HIGH PAINTED STENCIL LETTERS ABOVE ACESSIBLE CEILING SPACE AT 30' INTERVALS WORDING:
   - 1HR FIRE BARRIER - PROTECT ALL OPENINGS
   - 1HR FIRE PARTITION - PROTECT ALL OPENINGS
   - 1HR SHAFT WALL - PROTECT ALL OPENINGS
9. SECOND FLOOR AIR TRANSFER DUCTS ARE REQUIRED TO BE PROTECTED AT ANNULAR SPACE AROUND DUCT PENETRATIONS PER DETAIL - TYP.



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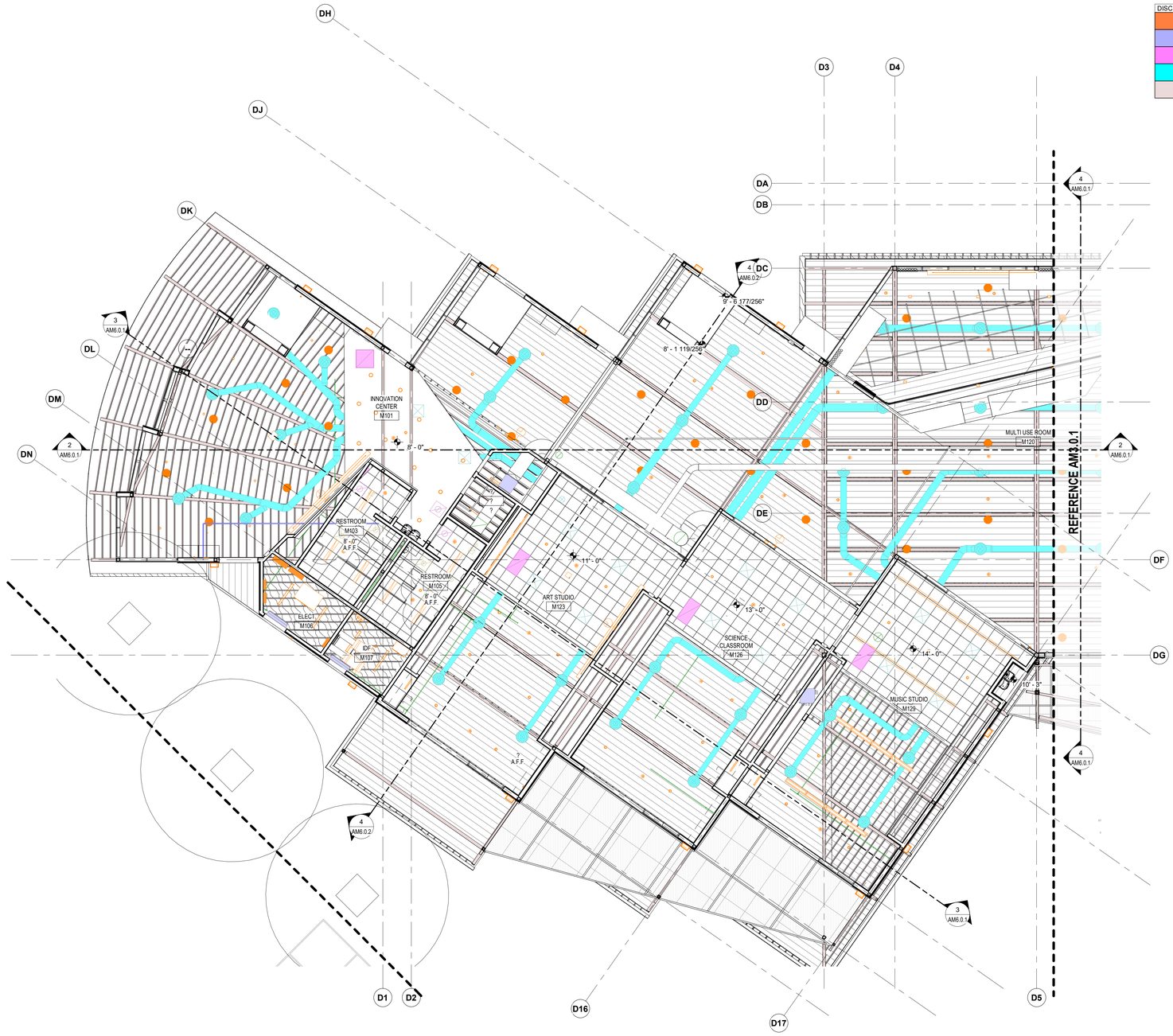
BUILDING M
FLOOR PLAN - M2

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

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AM2.1.2

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2/24/2020 7:59:55 AM



1 BLDG M - REFLECTED CEILING PLAN M1
1/8" = 1'-0"

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

CEILING LEGEND

- COMPOSITE WOOD UNDERSIDE OF SOFFIT
- ACOUSTIC PANELS BETWEEN EXPOSED STRUCTURE
- TRANSLUCENT FIBERGLASS CANOPY SYSTEM
- 2'-0" x 2'-0" SUSPENDED PANELS PER ROOM FINISH SCHEDULE - ACP-1 OR ACP-2 - 095113
- ACOUSTICAL CEILING CLOUD - ACP-3 - 095113
- 1'-0" x 8'-0" SUSPENDED METAL PANELS PER FINISH SCHEDULE - LMC-1 - 095423
- CURVED METAL PLANK PANELS PER FINISH SCHEDULE - LMC-2 - 095423 DIRECTION VARIES
- PAINTED GYPSUM BOARD PER FINISH SCHEDULE - 092900 (SPANS > 10' / SPANS < 10')
- PAINTED CEMENT PLASTER - SAND FINE FINISH - 092400
- PAINTED CEMENT PLASTER - SAND SUPER FINE FINISH - 092400
- METAL SOFFIT PANEL - 074213.53
- 4'x8' FIBER CEMENT SOFFIT - 074646
- THEATRICAL INSULATION SYSTEM (PINNED TO UNDERSIDE OF DECK) - 072100
- + X'-X" HEIGHT OF CEILING / SOFFIT
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- EXHAUST AIR DIFFUSER
- CEILING ACCESS PANEL - 083113
- LIGHT FIXTURES SEE ELECTRICAL DRAWINGS
- FIRE SPRINKLERS SEE FIRE SPRINKLER DRAWINGS

GENERAL NOTES

1. CENTER SUSPENDED CEILING GRIDS EACH WAY WITHIN SPACE, UNLESS NOTED OTHERWISE
2. CENTER MECHANICAL AIR GRILLES BETWEEN LIGHTS / WALLS IN GYPSUM BOARD CEILINGS AS SHOWN
3. CENTER LIGHT FIXTURES WITHIN SPACES UNLESS NOTED OTHERWISE
4. CEILING HEIGHT IS 9'-0" A.F.F. UNLESS NOTED OTHERWISE
5. EXIT LIGHTS NOT SHOWN, SEE ELECTRICAL DRAWINGS
6. FOR TYPICAL CEILING NOTES AND DETAILS, SEE SHEET A9.5.1, A9.5.2 & A9.5.3

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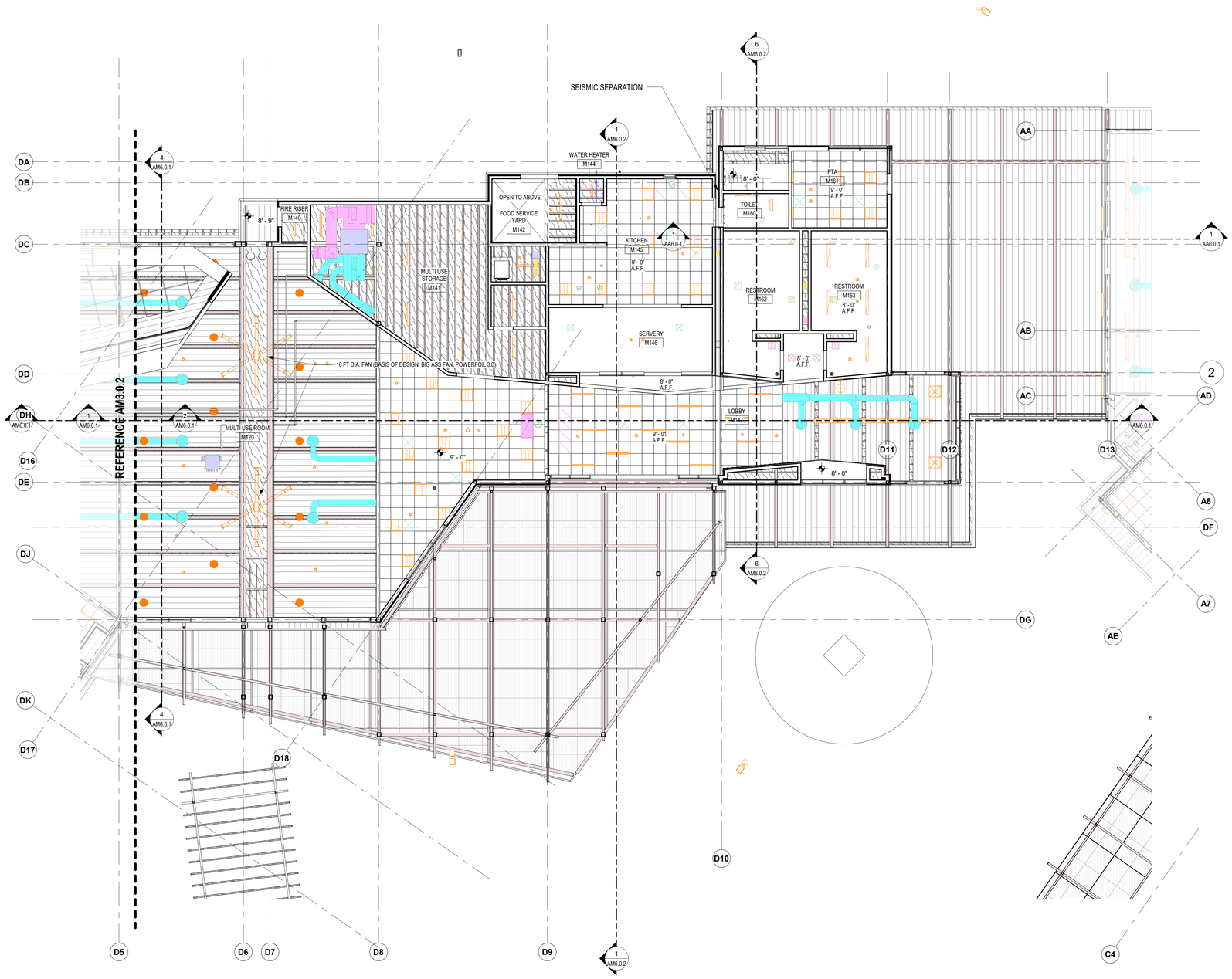
BUILDING M
REFLECTED CEILING PLAN - M1

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

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AM3.0.1

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2/24/2020 8:00:09 AM



1 BLDG M - REFLECTED CEILING PLAN M2
1/8" = 1'-0"

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER

Discipline Color Legend
12" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

CEILING LEGEND

- COMPOSITE WOOD UNDERSIDE OF SOFFIT
- ACOUSTIC PANELS BETWEEN EXPOSED STRUCTURE
- TRANSLUCENT FIBERGLASS CANOPY SYSTEM
- 2'-0" x 2'-0" SUSPENDED PANELS PER ROOM FINISH SCHEDULE - ACP-1 OR ACP-2 - 095113
- ACOUSTICAL CEILING CLOUD - ACP-3 - 095113
- 1'-0" x 8'-0" SUSPENDED METAL PANELS PER FINISH SCHEDULE - LMC-1 - 095423
- CURVED METAL PLANK PANELS PER FINISH SCHEDULE - LMC-2 - 095423 DIRECTION VARIES
- PAINTED GYPSUM BOARD PER FINISH SCHEDULE - 092900 (SPANS > 10' / SPANS < 10')
- PAINTED CEMENT PLASTER - SAND FINE FINISH - 092400
- PAINTED CEMENT PLASTER - SAND SUPER FINE FINISH - 092400
- METAL SOFFIT PANEL - 074213.53
- 4'x8' FIBER CEMENT SOFFIT - 074646
- THEATRICAL INSULATION SYSTEM (PINNED TO UNDERSIDE OF DECK) - 072100

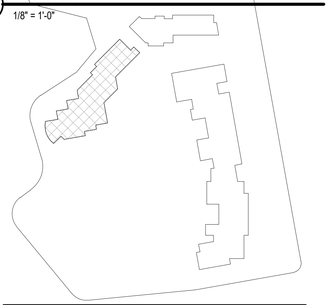
+ X'-X" HEIGHT OF CEILING / SOFFIT

- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- EXHAUST AIR DIFFUSER
- CEILING ACCESS PANEL - 083113
- LIGHT FIXTURES SEE ELECTRICAL DRAWINGS
- FIRE SPRINKLERS SEE FIRE SPRINKLER DRAWINGS

GENERAL NOTES

1. CENTER SUSPENDED CEILING GRIDS EACH WAY WITHIN SPACE, UNLESS NOTED OTHERWISE
2. CENTER MECHANICAL AIR GRILLES BETWEEN LIGHTS / WALLS IN GYPSUM BOARD CEILINGS AS SHOWN
3. CENTER LIGHT FIXTURES WITHIN SPACES UNLESS NOTED OTHERWISE
4. CEILING HEIGHT IS 9'-0" A.F.F. UNLESS NOTED OTHERWISE
5. EXIT LIGHTS NOT SHOWN, SEE ELECTRICAL DRAWINGS
6. FOR TYPICAL CEILING NOTES AND DETAILS, SEE SHEET A9.5.1, A9.5.2 & A9.5.3

LEGEND-CEILING
1/8" = 1'-0"



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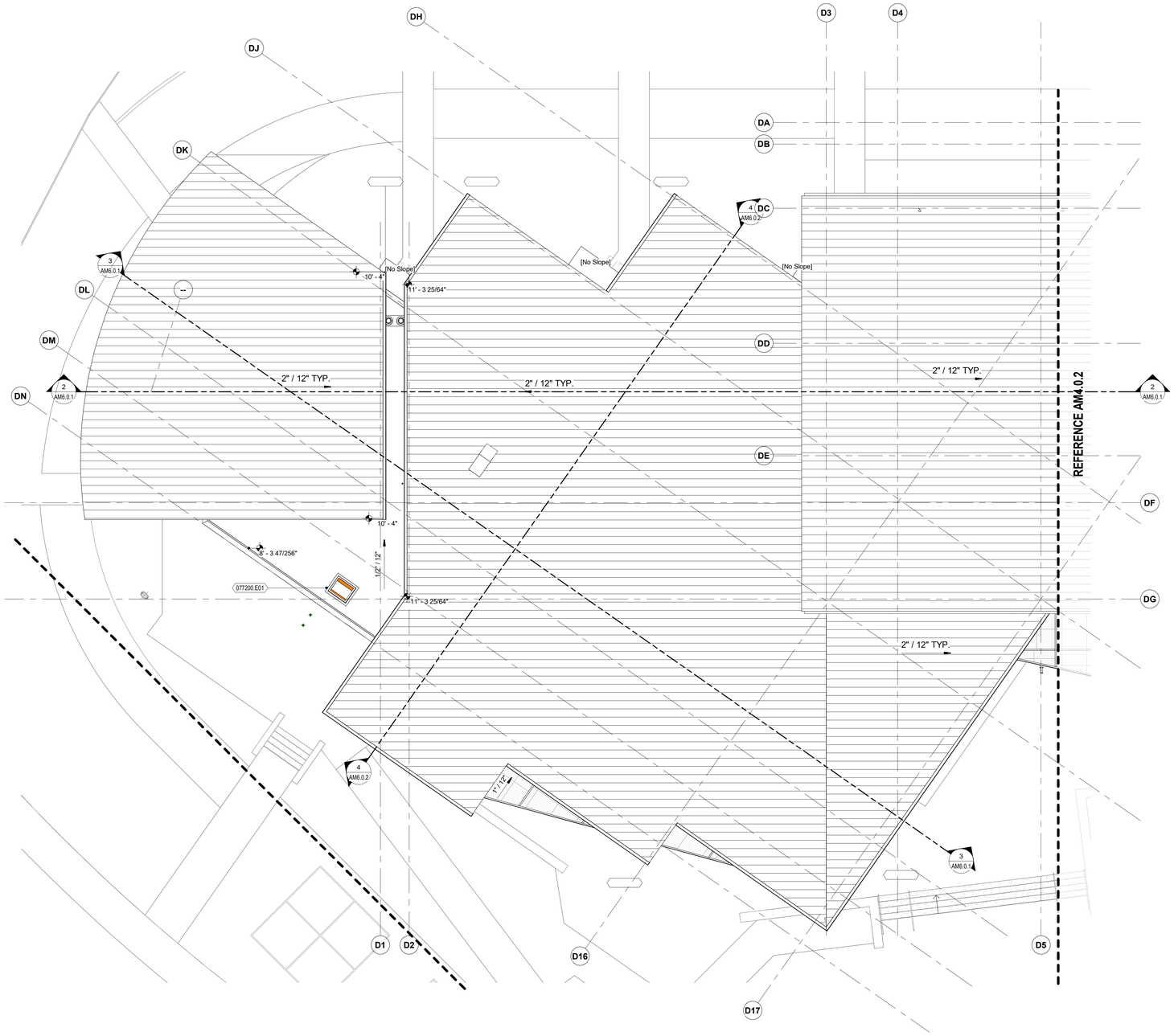
BUILDING M
REFLECTED CEILING PLAN -M2

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
AM3.0.2

BIM 360://19009-00 Del Mar Heights ES/ARCH-BNDS-DMHS.rvt
2/24/2020 8:00:19 AM



1 BLDG M - ROOOF PLAN M1

1/8" = 1'-0"

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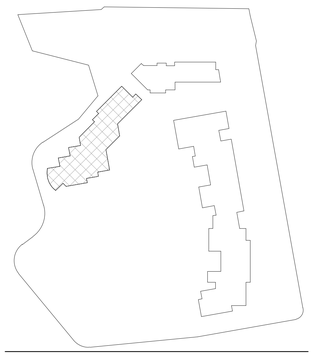
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER

LEGEND

- 30" ROOF WALKWAY, PER MANUFACTURER - 075423
- STANDING SEAM METAL ROOFING
- PVC SINGLE PLY ROOFING
- TRANSLUCENT FIBERGLASS CANOPY SYSTEM
- ROOF HATCH 36"x36"



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BUILDING M

ROOF PLAN - M1

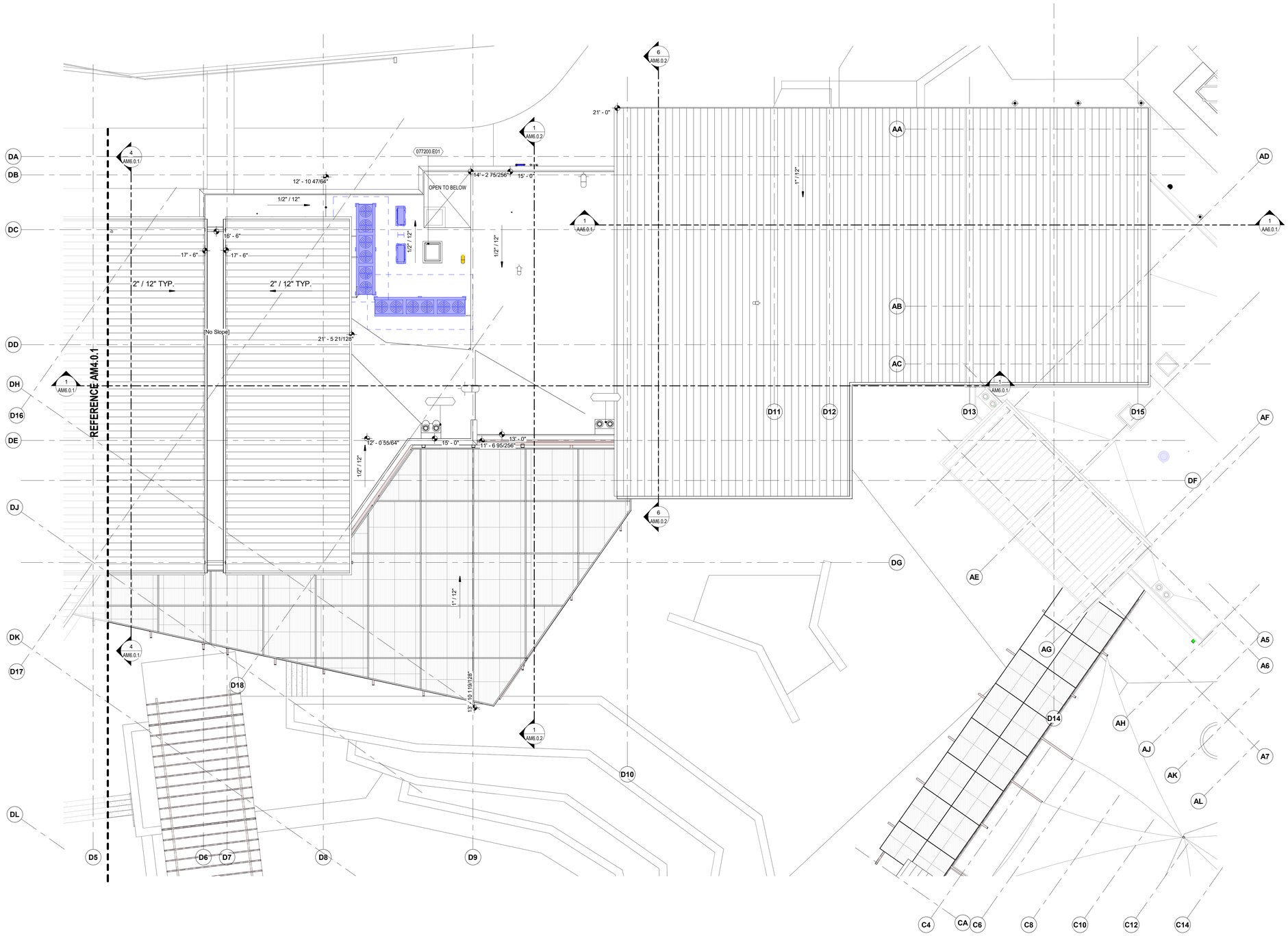
NO.	DATE	ISSUE

PROJECT NO: 19009

DATE: 02/28/2020

DRAWING

AM4.0.1



1 BLDG M - ROOF PLAN M1
1/8" = 1'-0"

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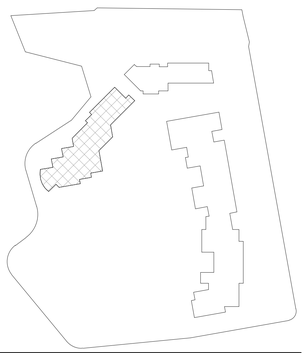
DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER

LEGEND

- 30" ROOF WALKWAY, PER MANUFACTURER - 075423
- STANDING SEAM METAL ROOFING
- PVC SINGLE PLY ROOFING
- TRANSLUCENT FIBERGLASS CANOPY SYSTEM
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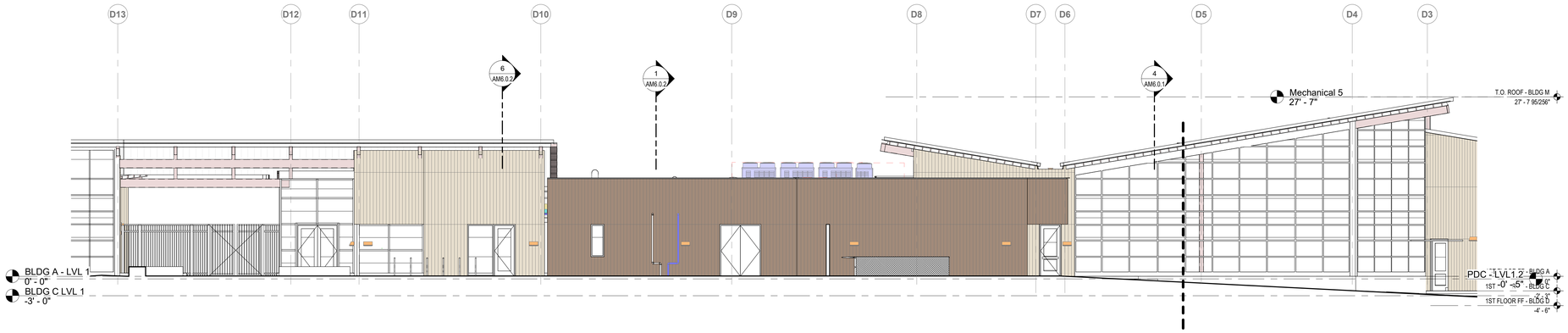
BUILDING M
ROOF PLAN - M2

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

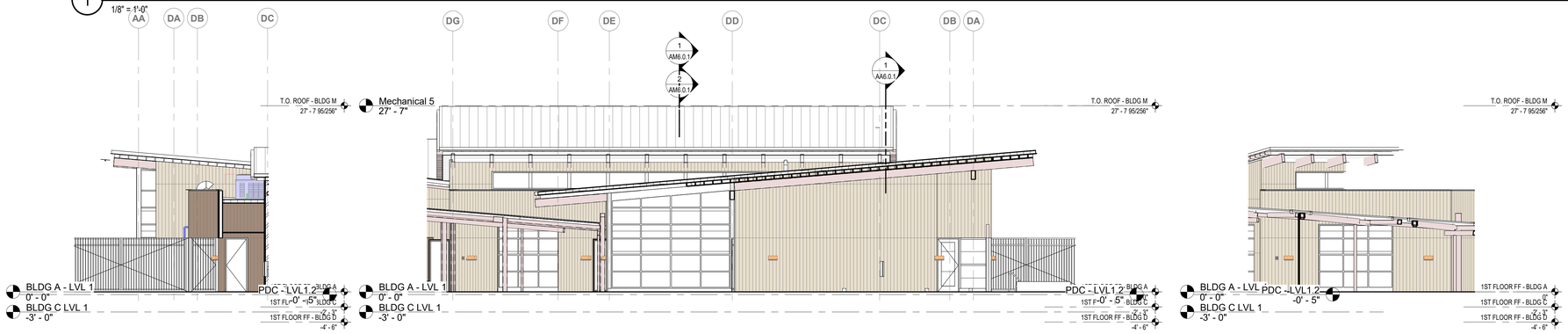
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2/24/2020 8:00:30 AM



1 BLDG M - 1.1 - ELEVATION N

1/8" = 1'-0"



2 BLDG M - 1.2 - ELEVATION W

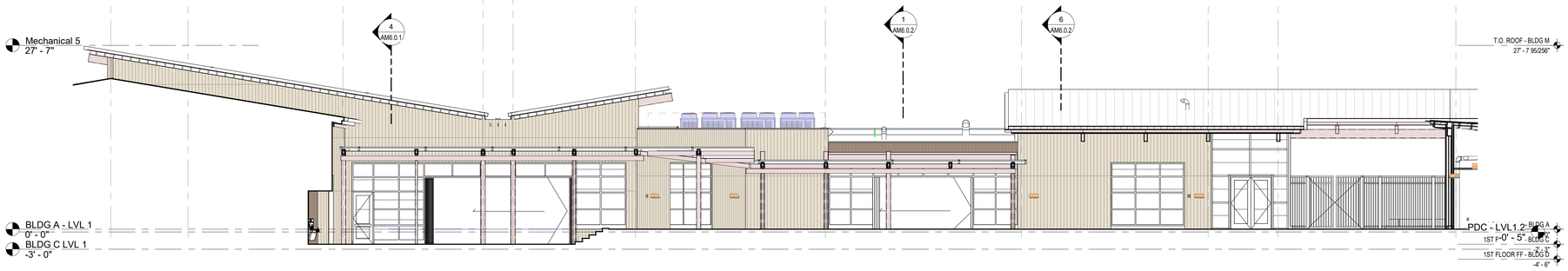
1/8" = 1'-0"

3 BLDG M - 1.3 - ELEVATION E

1/8" = 1'-0"

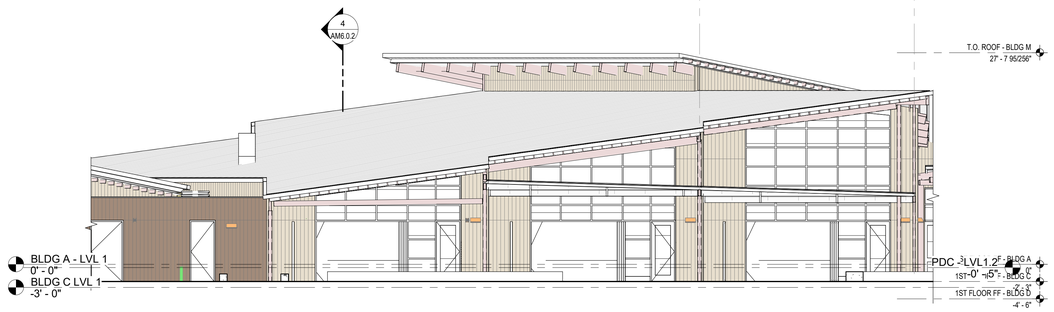
4 BLDG M - 1.4 - ELEVATION SE

1/8" = 1'-0"



5 BLDG M - 1.5 - ELEVATION S

1/8" = 1'-0"



6 BLDG M - 2.1 - ELEVATION SW

1/8" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

LEGEND

FIBER BASED COMPOSITE WOOD CLADDING - FIELD COLOR - LFC-1

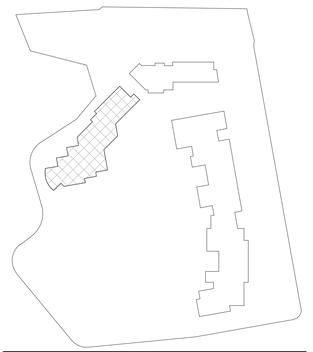
FIBER BASED COMPOSITE WOOD CLADDING - ACCENT COLOR - LFC-2

NOTES:

1 - SEE AND FOR PLASTER AND FIBER-CEMENT ACCESSORIES.

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



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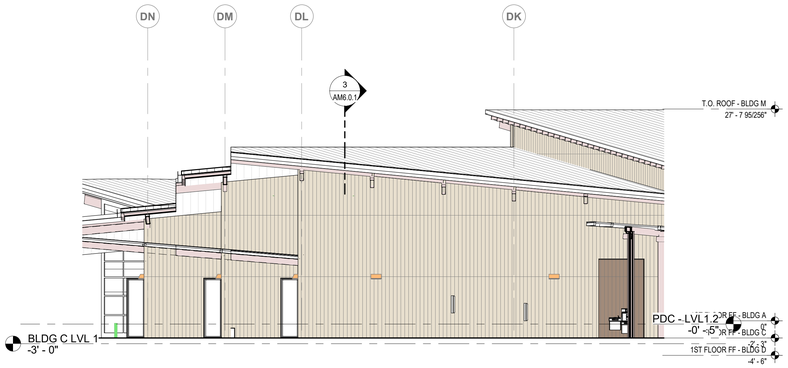
BUILDING M
EXTERIOR ELEVATIONS

NO. DATE ISSUE

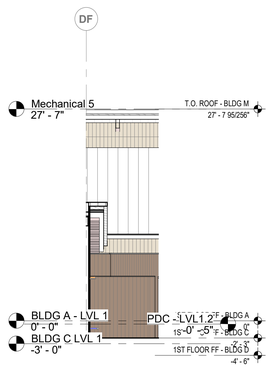
PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
AM5.0.0

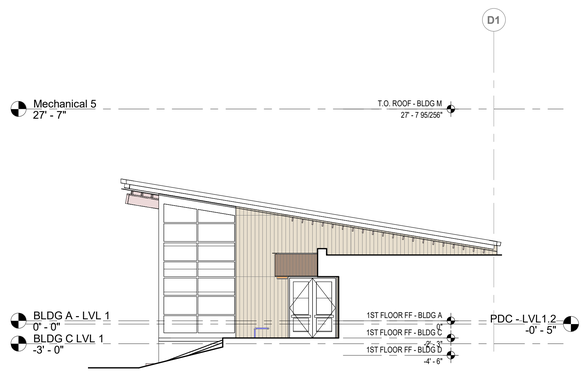
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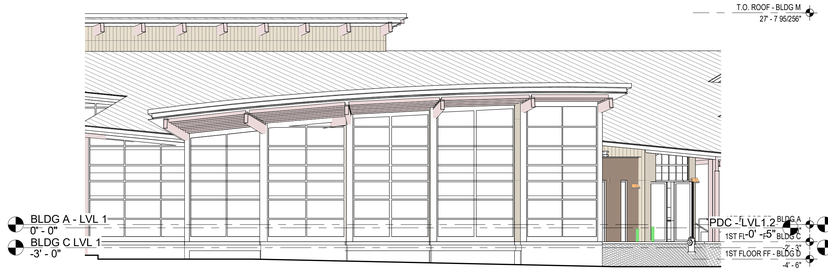
1 BLDG M - 2.2 - ELEVATION SE
1/8" = 1'-0"



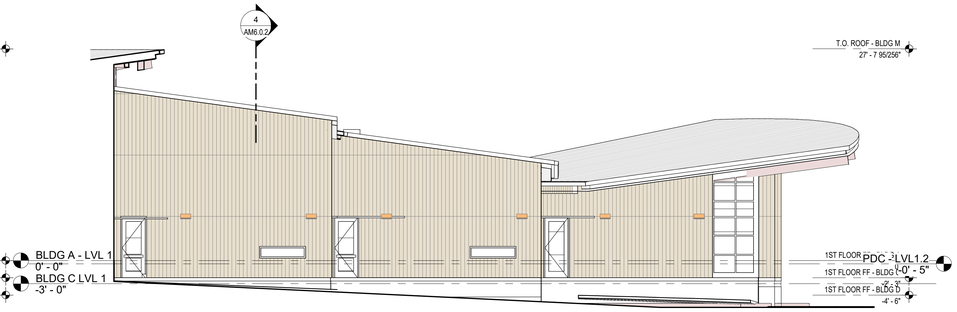
2 BLDG M - 2.3 - ELEVATION W
1/8" = 1'-0"



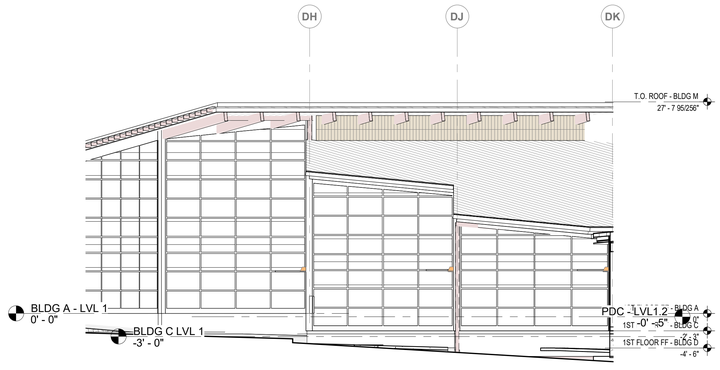
3 BLDG M - 2.4 - ELEVATION S
1/8" = 1'-0"



4 BLDG M - 2.5 - ELEVATION SW
1/8" = 1'-0"



5 BLDG M - 2.6 - ELEVATION NE
1/8" = 1'-0"



6 BLDG M - 2.7 - ELEVATION NW
1/8" = 1'-0"

BIM 360://19009-00 Del Mar Heights ES/ARCH-BNDS-DMHS.rvt

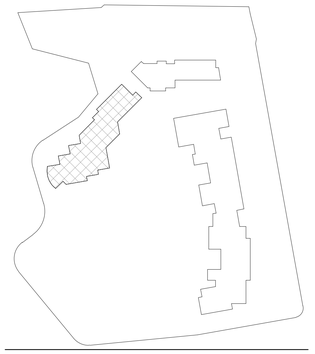
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FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



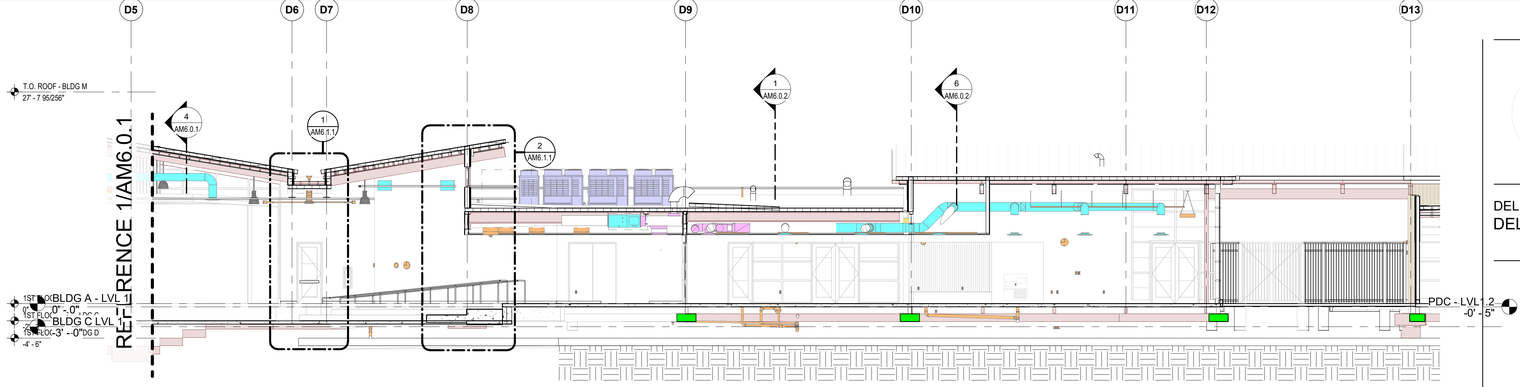
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BUILDING M
EXTERIOR ELEVATIONS

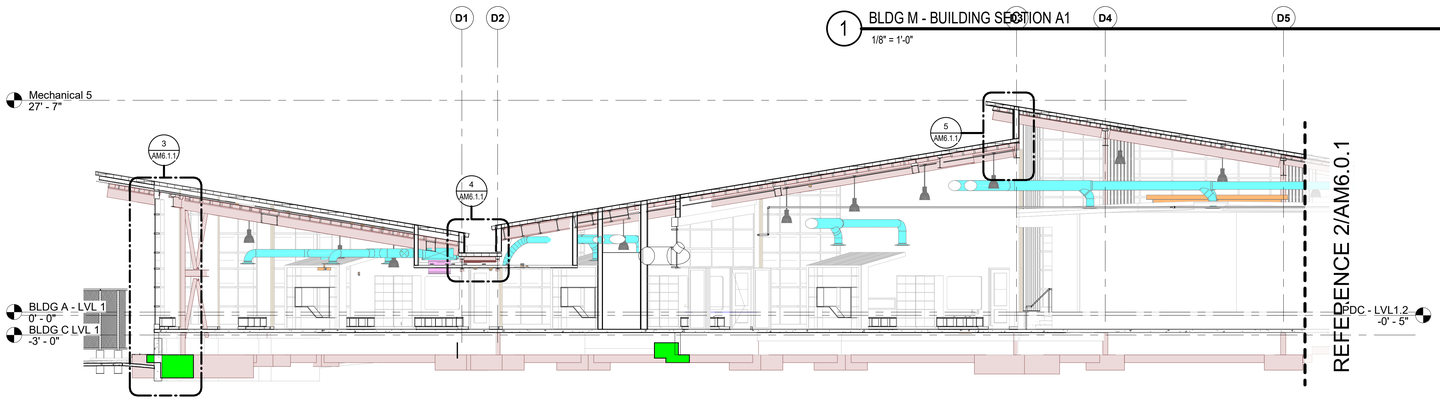
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PROJECT NO: 19009
DATE: 02/28/2020

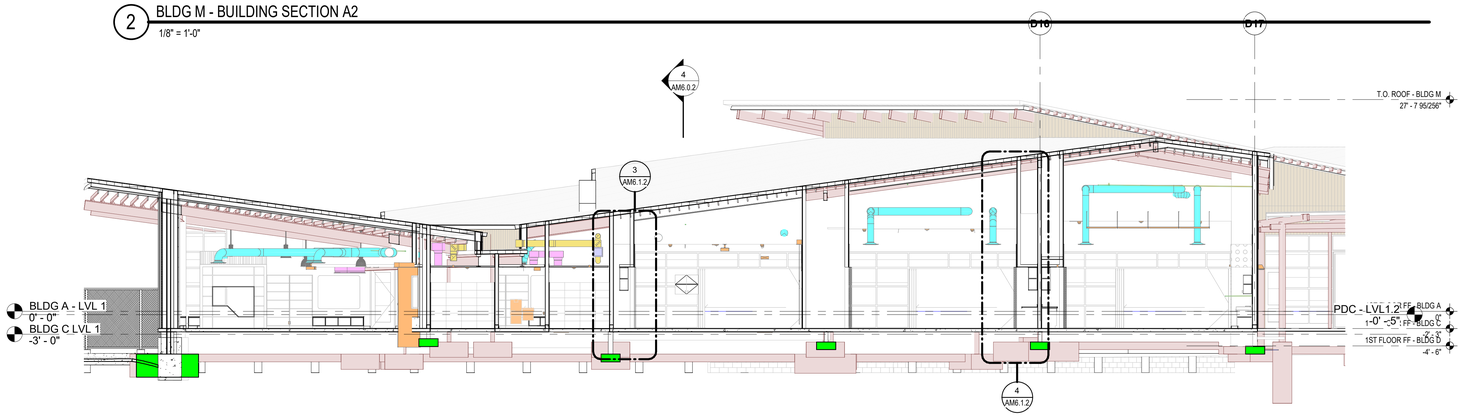
DRAWING
AM5.0.1



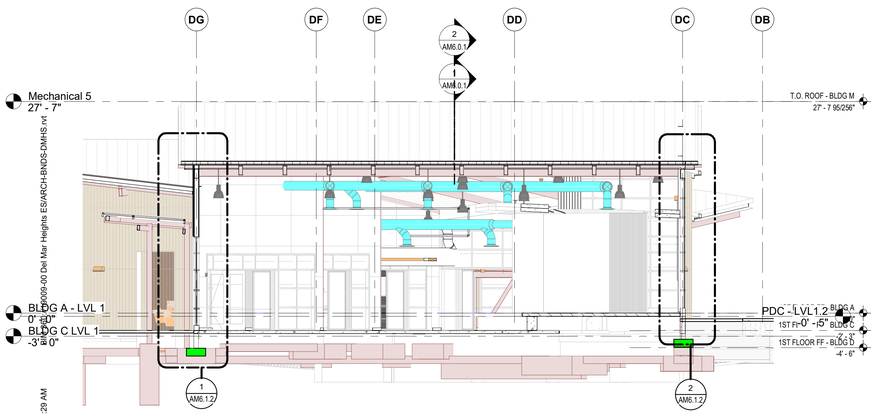
1 BLDG M - BUILDING SECTION A1
1/8" = 1'-0"



2 BLDG M - BUILDING SECTION A2
1/8" = 1'-0"



3 BLDG M - BUILDING SECTION 2
1/8" = 1'-0"



4 BLDG M - BUILDING SECTION 1
1/8" = 1'-0"

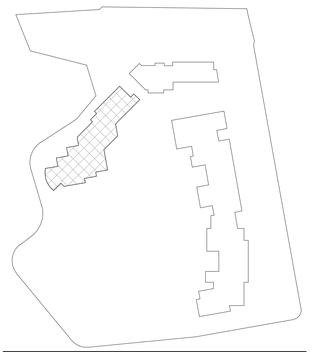
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19009-00 Del Mar Heights ES/ARCH-BND5-DMHS.rvt

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



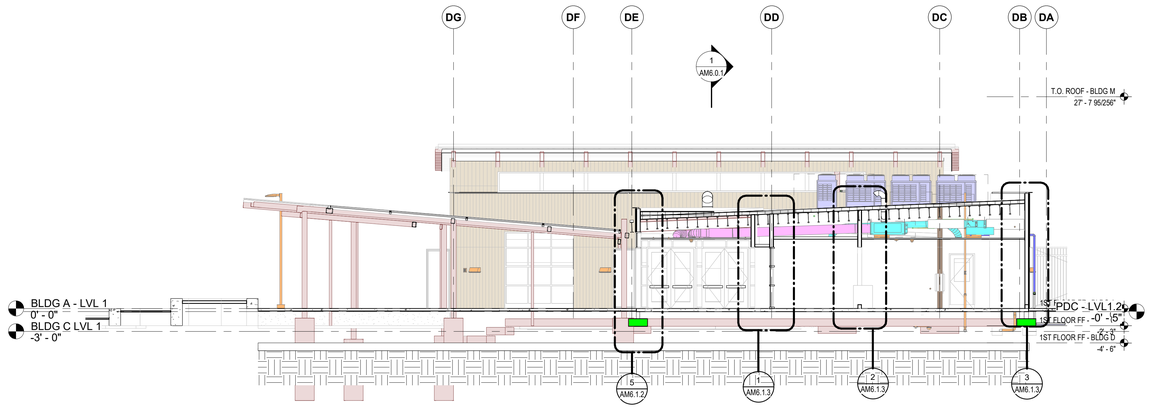
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BUILDING M
BUILDING SECTION

NO. DATE ISSUE

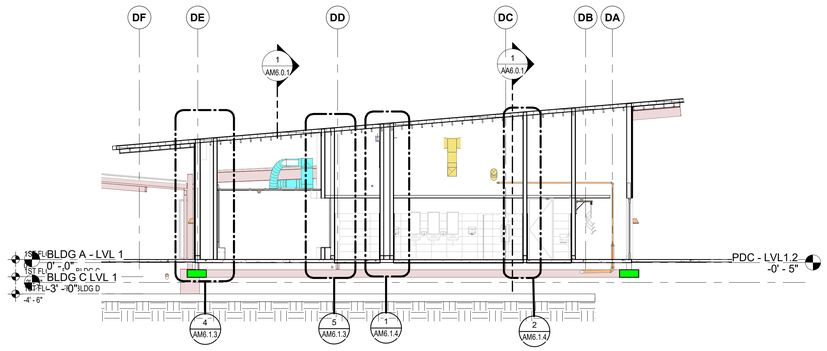
PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
AM6.0.1



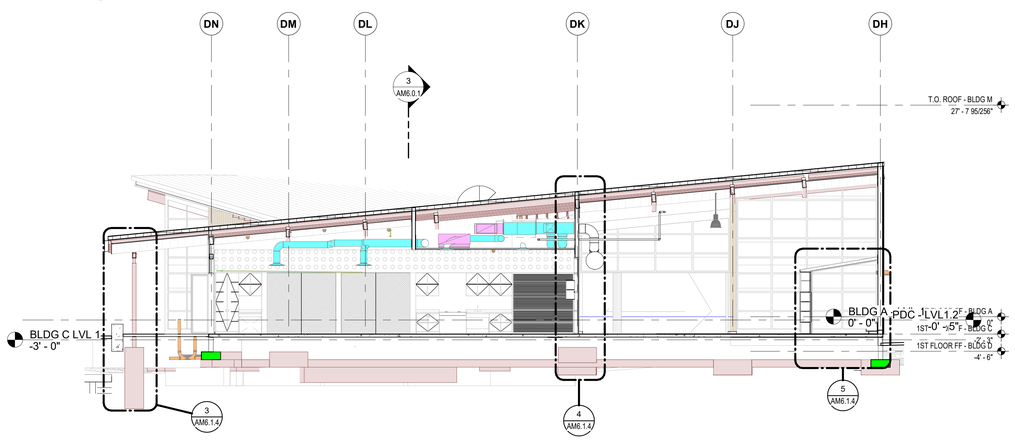
1 BLDG M - BUILDING SECTION 3

1/8" = 1'-0"



6 BLDG M - BUILDING SECTION 4

1/8" = 1'-0"



4 BLDG M - BUILDING SECTION 5

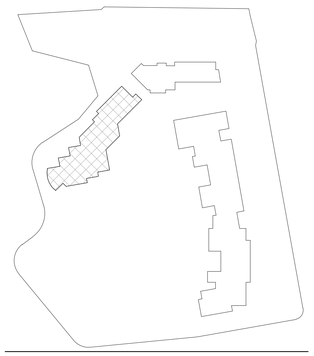
1/8" = 1'-0"

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



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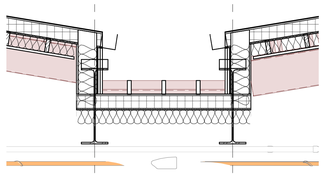
BUILDING M
BUILDING SECTION

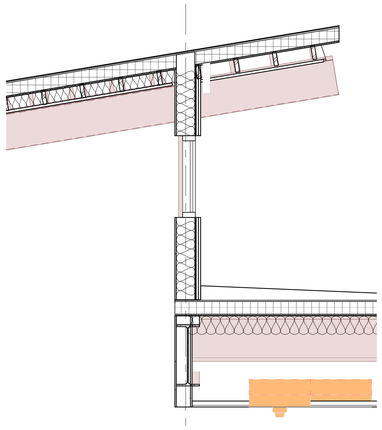
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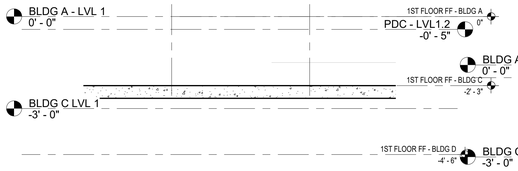
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DATE: 02/28/2020

DRAWING
AM6.0.2

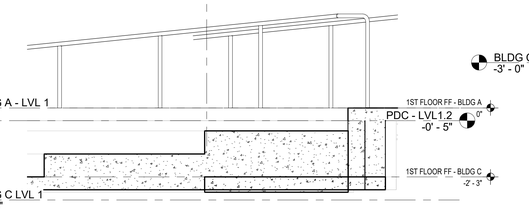
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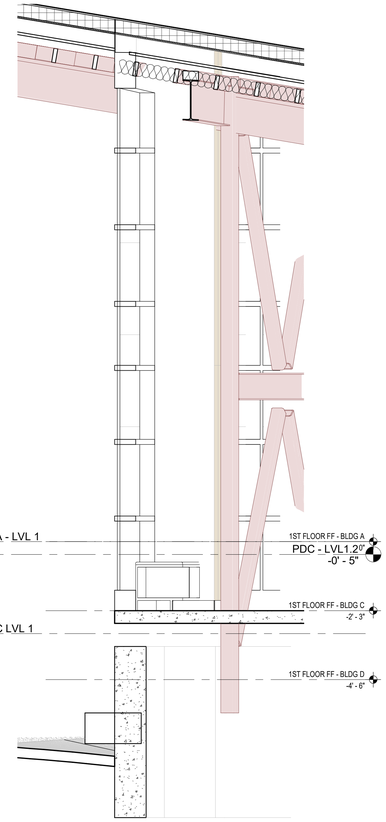




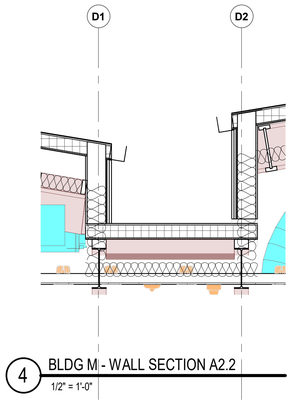
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1/2" = 1'-0"



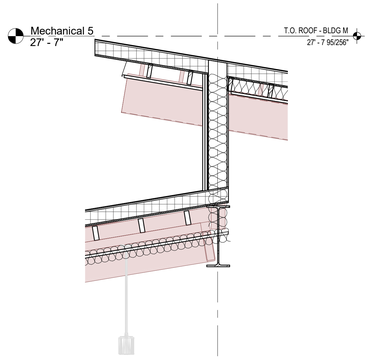
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1/2" = 1'-0"



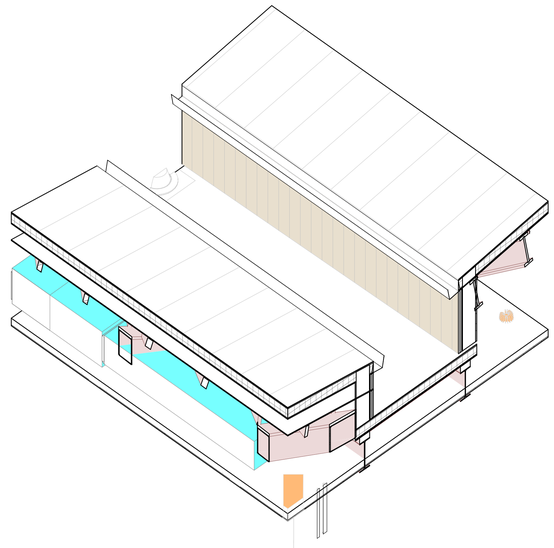
3 BLDG M - WALL SECTION A2.1
1/2" = 1'-0"



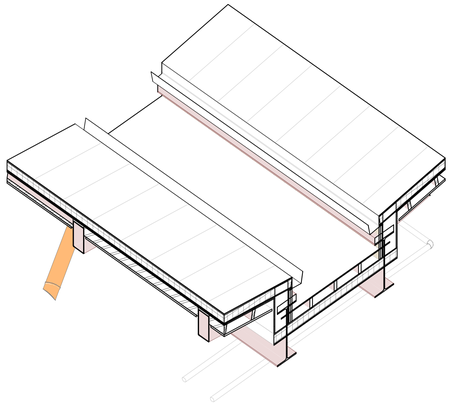
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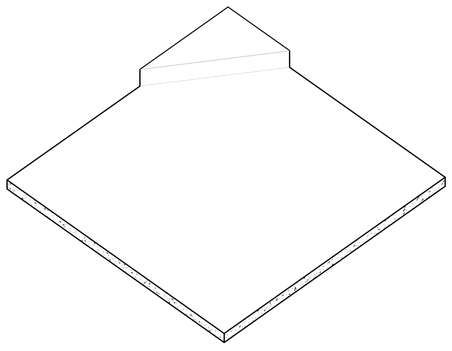


5 BLDG M - WALL SECTION A2.3
1/2" = 1'-0"

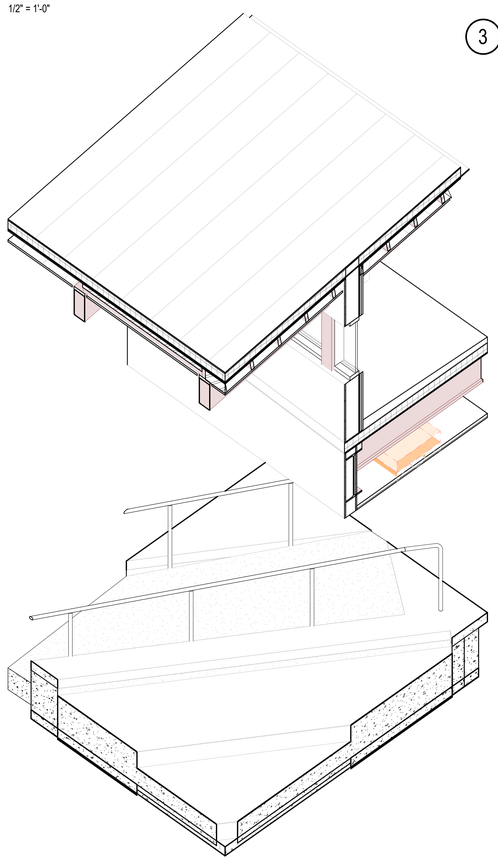


9 BLDG M - WALL SECTION A2.2 - ISO - FOR REFERENCE ONLY

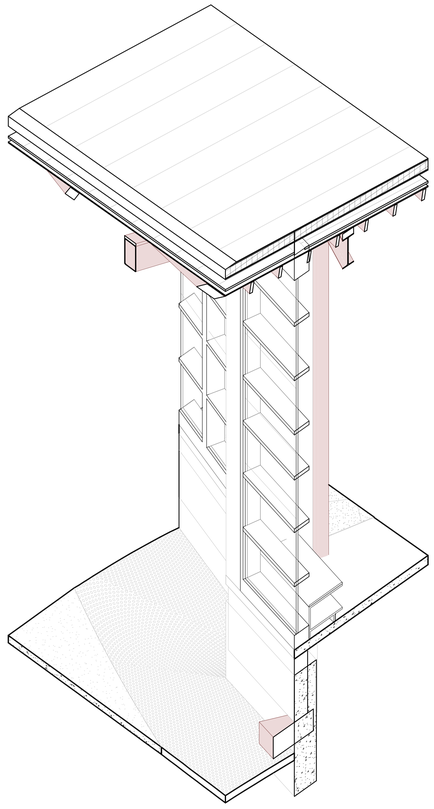




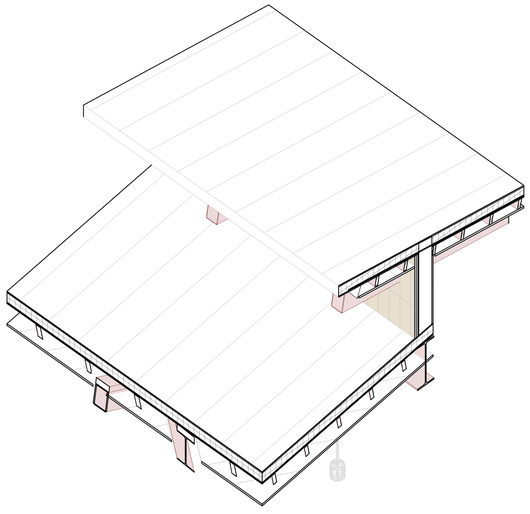
6 BLDG M - WALL SECTION A1.1 - ISO - FOR REFERENCE ONLY



7 BLDG M - WALL SECTION A1.2 - ISO - FOR REFERENCE ONLY



8 BLDG M - WALL SECTION A2.1 - ISO - FOR REFERENCE ONLY



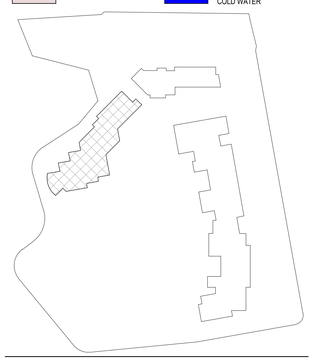
10 BLDG M - WALL SECTION A2.3 - ISO - FOR REFERENCE ONLY

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
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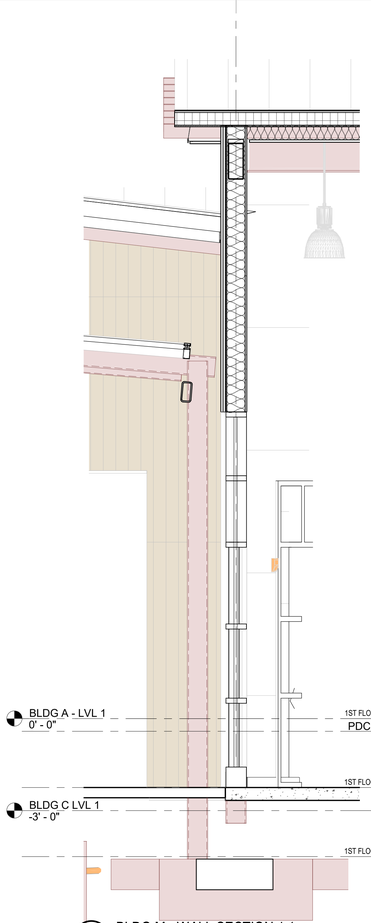
BUILDING M
WALL SECTIONS

NO. DATE ISSUE

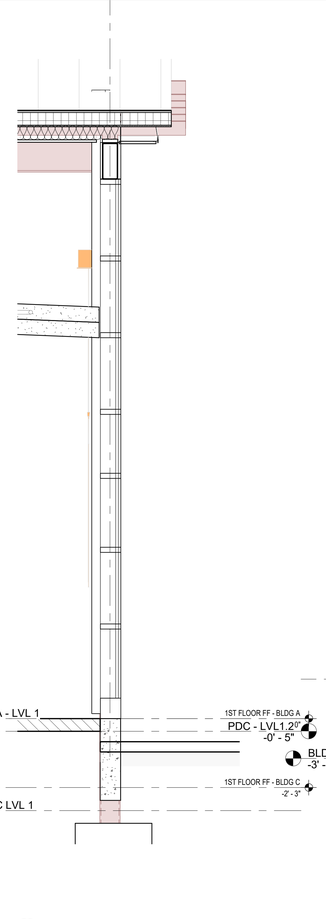
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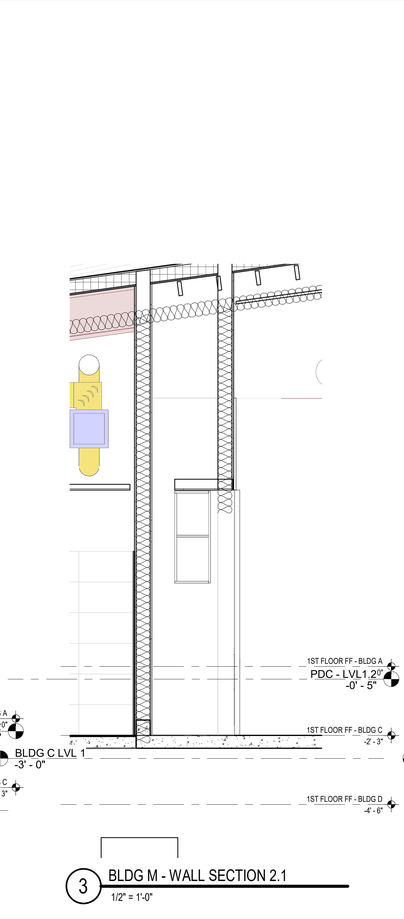
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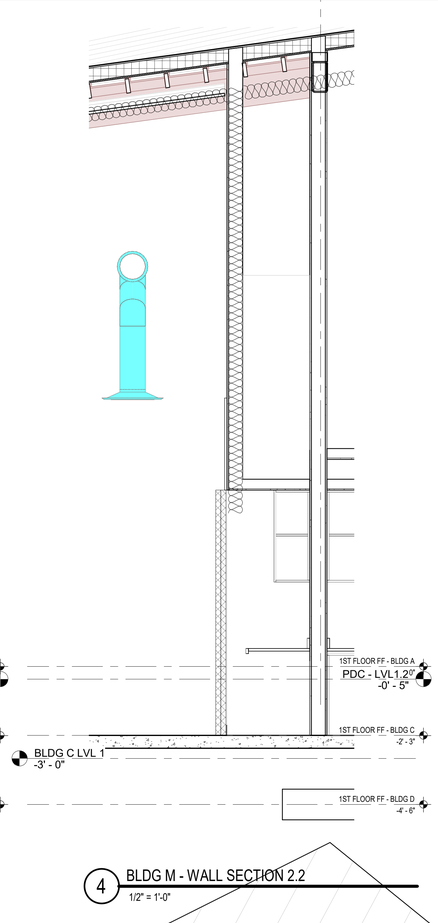
1 BLDG M - WALL SECTION 1.1
1/2" = 1'-0"



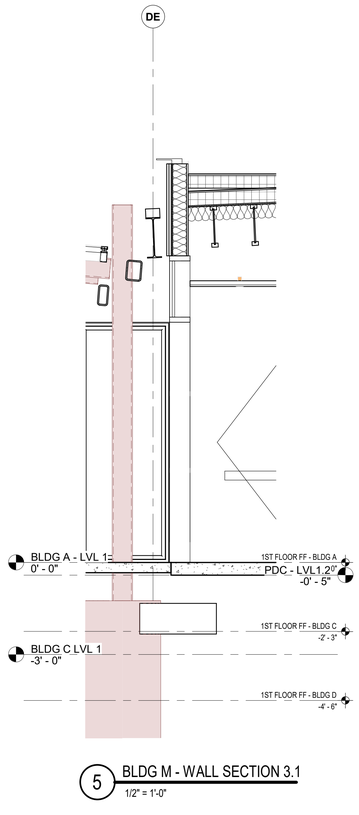
2 BLDG M - WALL SECTION 1.2
1/2" = 1'-0"



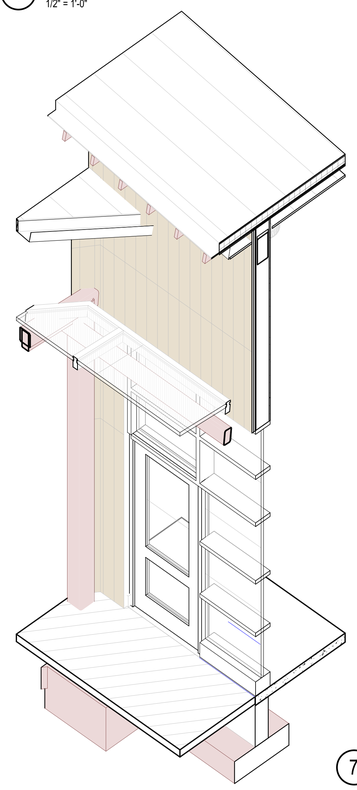
3 BLDG M - WALL SECTION 2.1
1/2" = 1'-0"



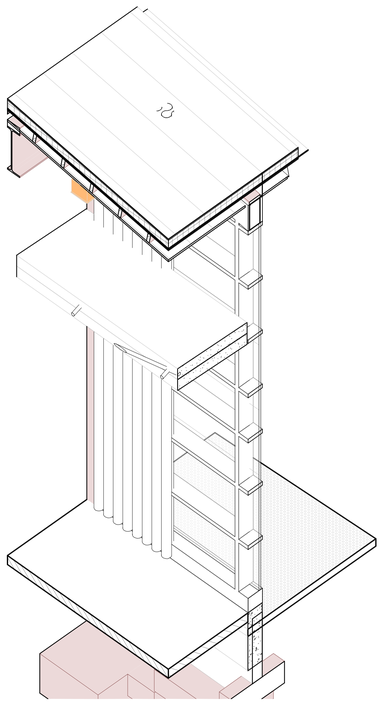
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1/2" = 1'-0"



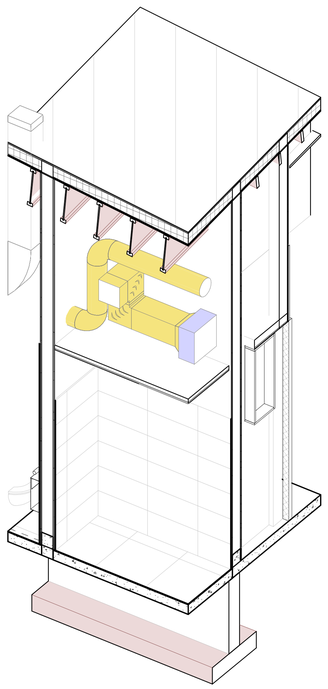
5 BLDG M - WALL SECTION 3.1
1/2" = 1'-0"



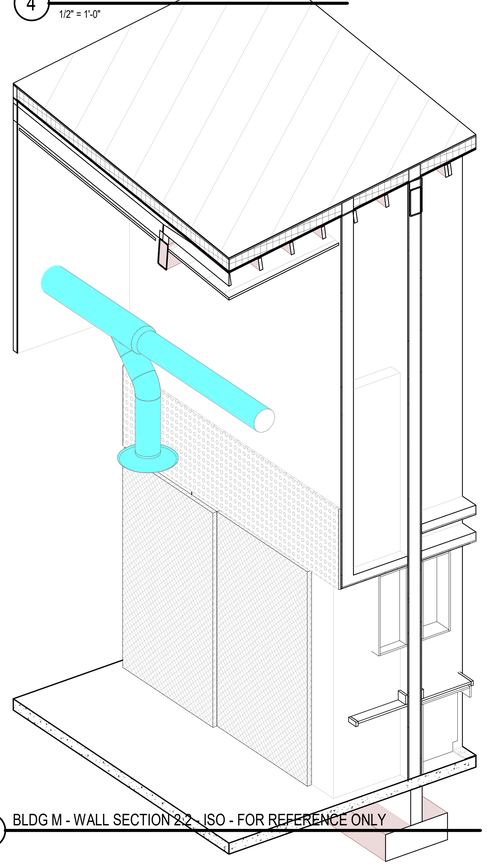
6 BLDG M - WALL SECTION 1.1 - ISO - FOR REFERENCE ONLY



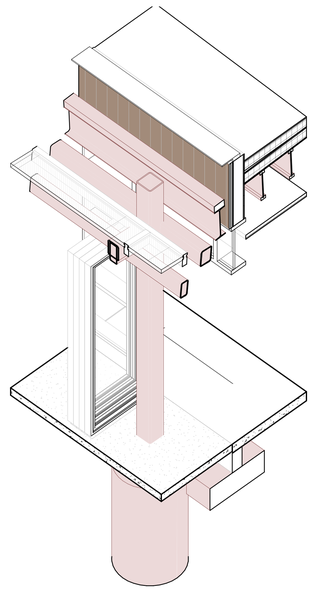
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8 BLDG M - WALL SECTION 2.1 - ISO - FOR REFERENCE ONLY



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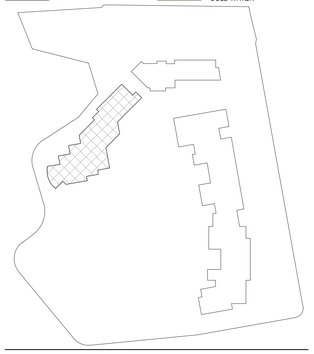
10 BLDG M - WALL SECTION 3.1 - ISO - FOR REFERENCE ONLY

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
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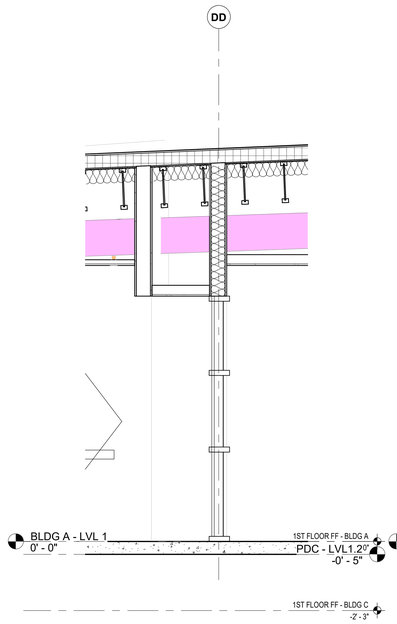
BUILDING M
WALL SECTIONS

NO. DATE ISSUE

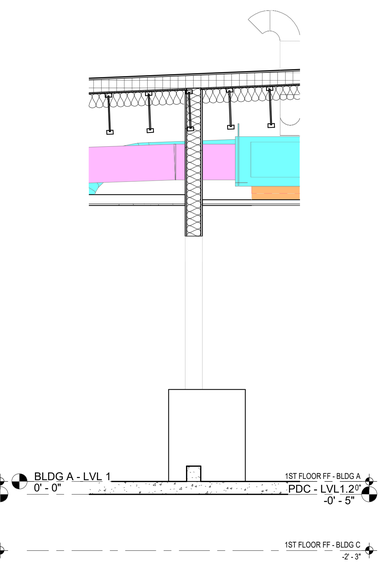
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DATE: 02/28/2020

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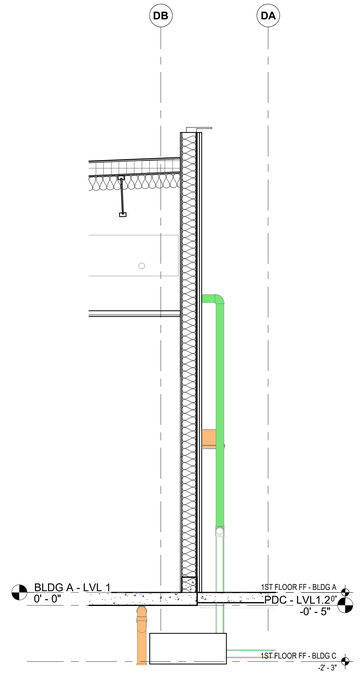
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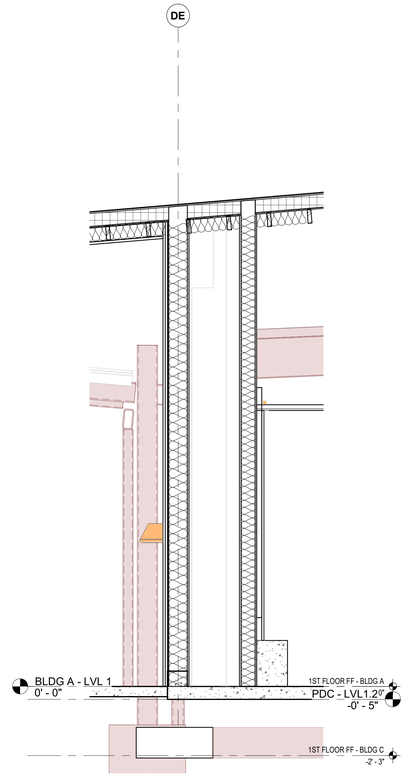
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1/2" = 1'-0"



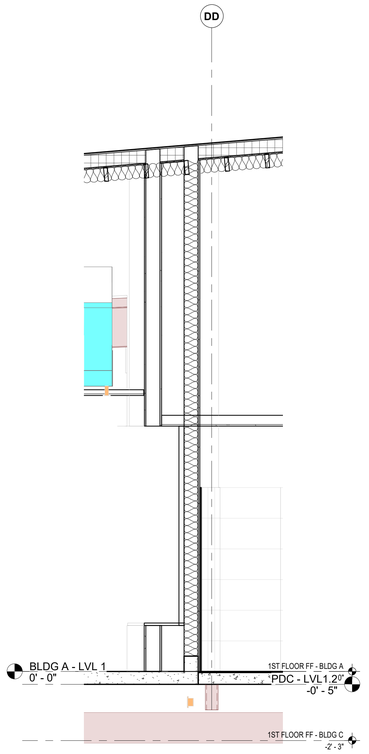
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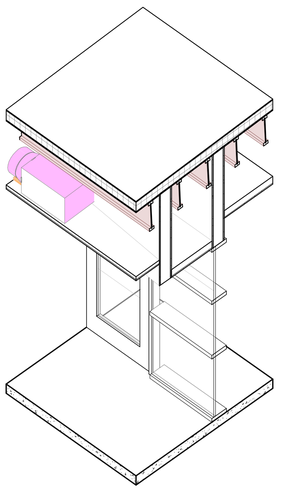
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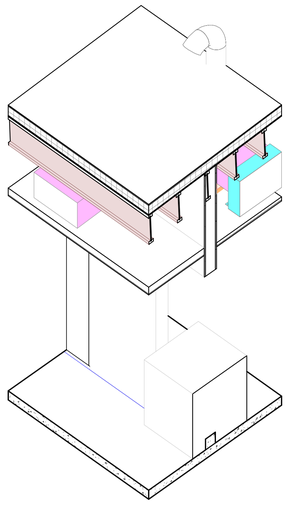
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1/2" = 1'-0"



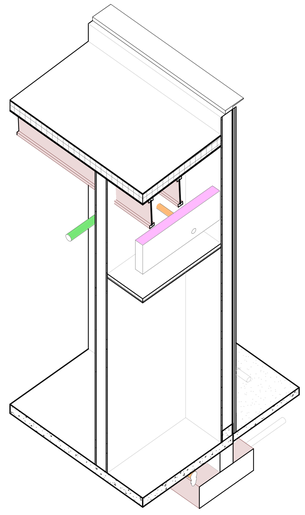
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1/2" = 1'-0"



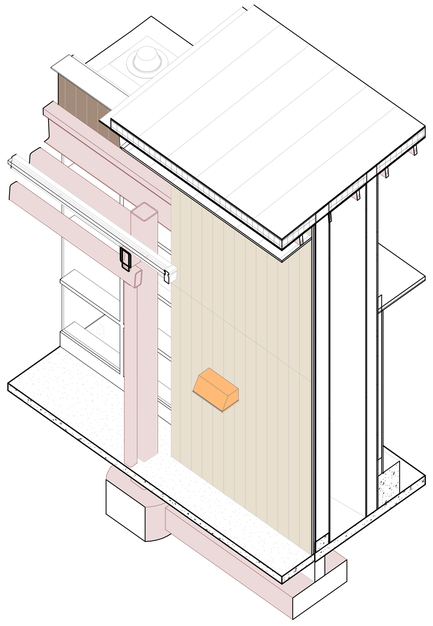
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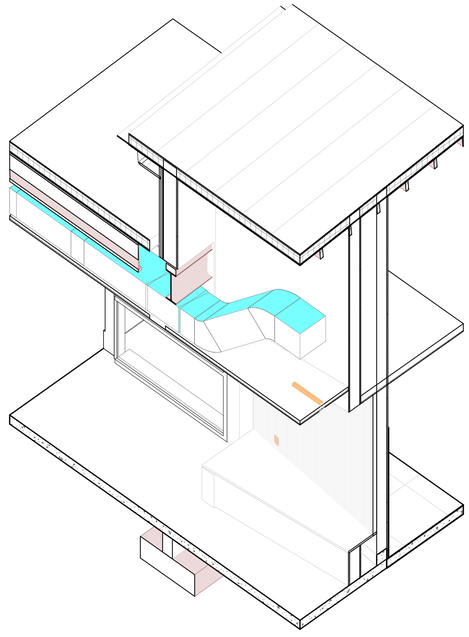
9 BLDG M - WALL SECTION 3.3 - ISO - FOR REFERENCE ONLY



8 BLDG M - WALL SECTION 3.4 - ISO - FOR REFERENCE ONLY



7 BLDG M - WALL SECTION 4.1 - ISO - FOR REFERENCE ONLY



6 BLDG M - WALL SECTION 4.2 - ISO - FOR REFERENCE ONLY

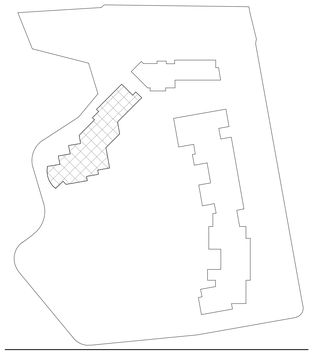
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FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
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MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



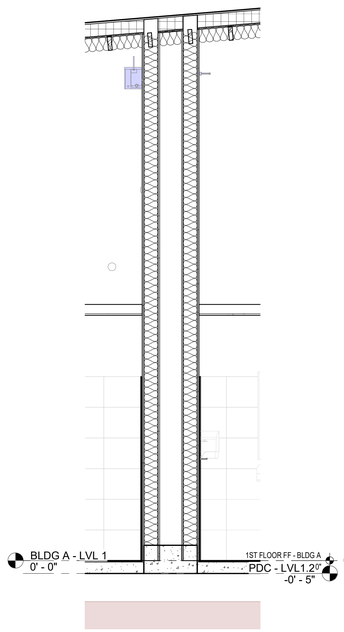
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BUILDING M
WALL SECTIONS

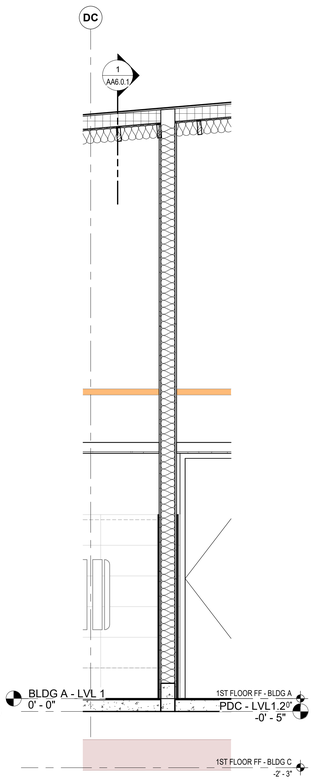
NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

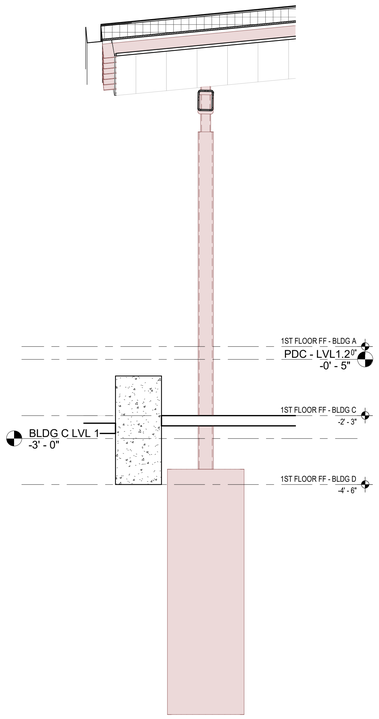
DRAWING
AM6.1.3



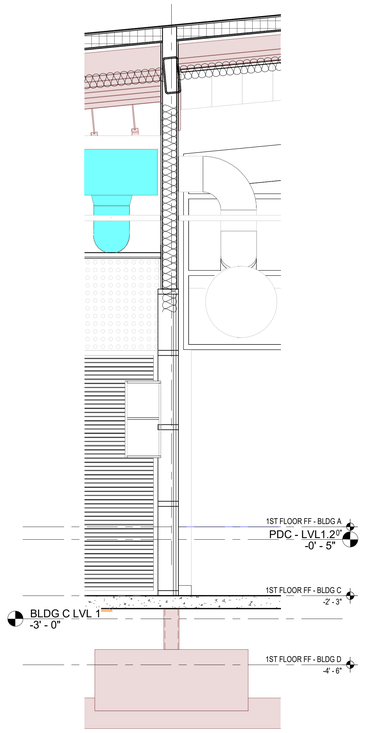
1 BLDG M - WALL SECTION 4.3
1/2" = 1'-0"



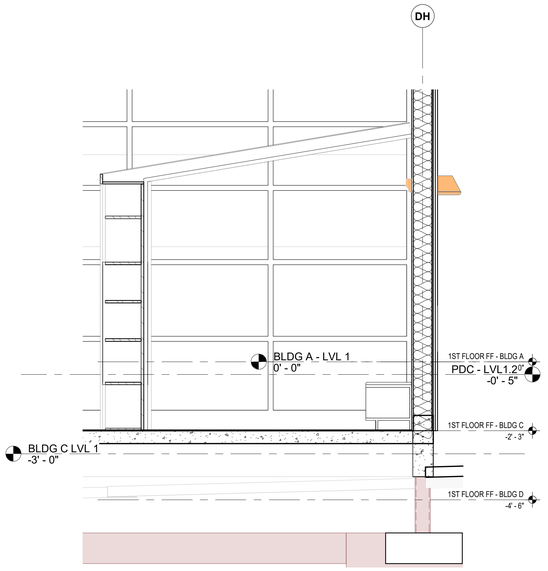
2 BLDG M - WALL SECTION 4.4
1/2" = 1'-0"



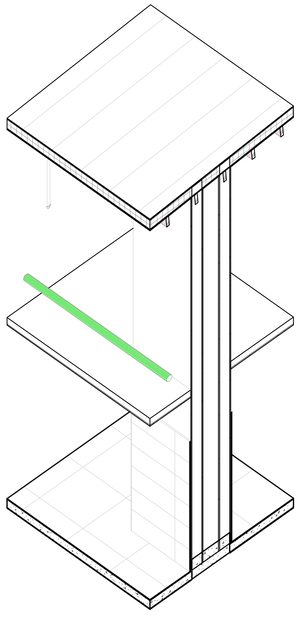
3 BLDG M - WALL SECTION 5.1
1/2" = 1'-0"



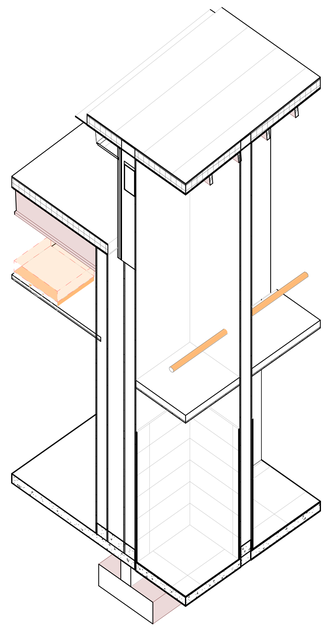
4 BLDG M - WALL SECTION 5.2
1/2" = 1'-0"



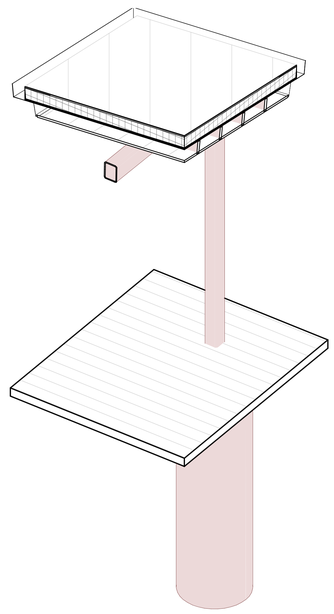
5 BLDG M - WALL SECTION 5.3
1/2" = 1'-0"



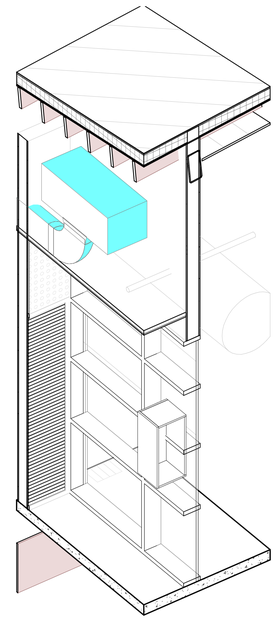
10 BLDG M - WALL SECTION 4.3 - ISO - FOR REFERENCE ONLY



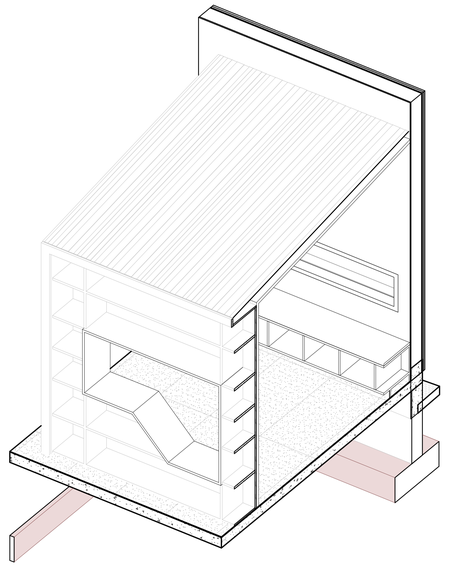
9 BLDG M - WALL SECTION 4.4 - ISO - FOR REFERENCE ONLY



8 BLDG M - WALL SECTION 5.1 - ISO - FOR REFERENCE ONLY



7 BLDG M - WALL SECTION 5.2 - ISO - FOR REFERENCE ONLY



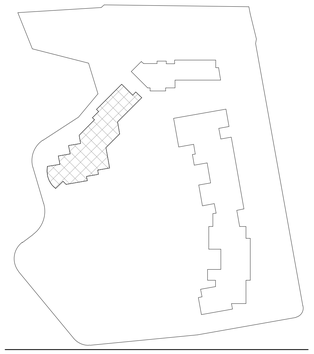
6 BLDG M - WALL SECTION 5.3 - ISO - FOR REFERENCE ONLY

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



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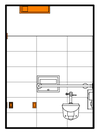
BUILDING M
WALL SECTIONS

NO. DATE ISSUE

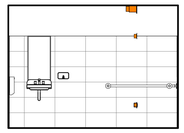
PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
AM6.1.4

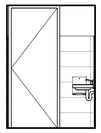
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2/24/2020 8:02:57 AM



2 BLDG M - INT ELEV - M160 NE
1/4" = 1'-0"



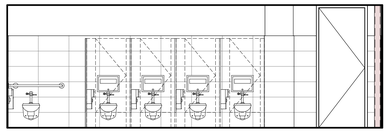
3 BLDG M - INT ELEV - M160 NW
1/4" = 1'-0"



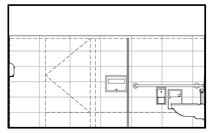
4 BLDG M - INT ELEV - M160 SW
1/4" = 1'-0"



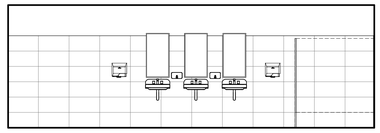
5 BLDG M - INT ELEV - M160 SE
1/4" = 1'-0"



6 BLDG M - INT ELEV - M152 NE
1/4" = 1'-0"



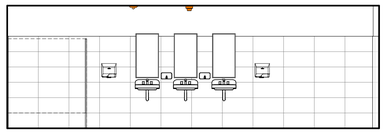
7 BLDG M - INT ELEV - M152 NW
1/4" = 1'-0"



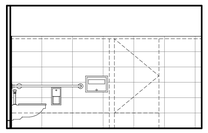
8 BLDG M - INT ELEV - M152 SW
1/4" = 1'-0"



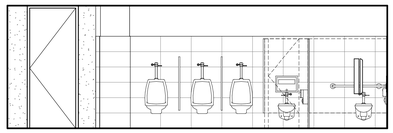
9 BLDG M - INT ELEV - M152 SE
1/4" = 1'-0"



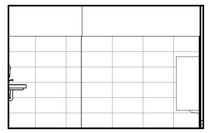
10 BLDG M - INT ELEV - M153 NE
1/4" = 1'-0"



11 BLDG M - INT ELEV - M153 NW
1/4" = 1'-0"



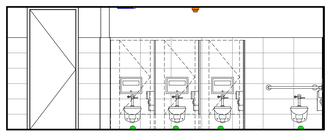
12 BLDG M - INT ELEV - M153 SW
1/4" = 1'-0"



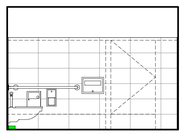
13 BLDG M - INT ELEV - M153 SE
1/4" = 1'-0"



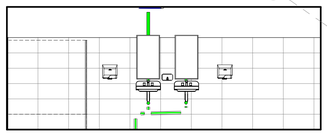
15 BLDG M - INT ELEV - M103 N
1/4" = 1'-0"



16 BLDG M - INT ELEV - M103 E
1/4" = 1'-0"



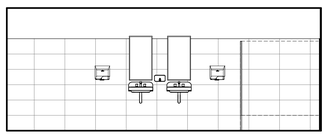
17 BLDG M - INT ELEV - M103 S
1/4" = 1'-0"



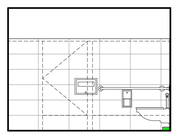
18 BLDG M - INT ELEV - M103 W
1/4" = 1'-0"



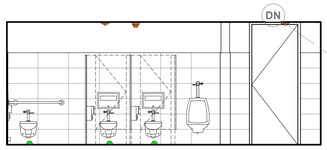
19 BLDG M - INT ELEV - M104 N
1/4" = 1'-0"



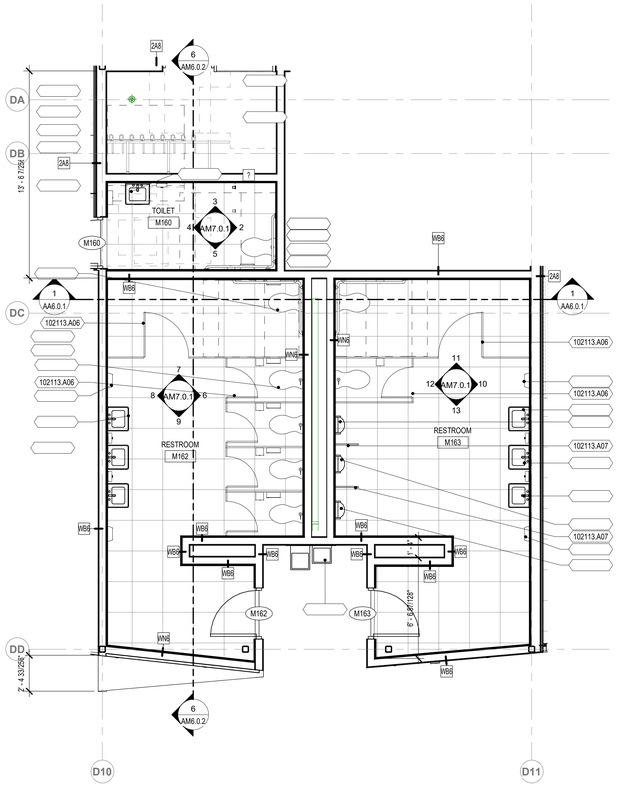
20 BLDG M - INT ELEV - M104 E
1/4" = 1'-0"



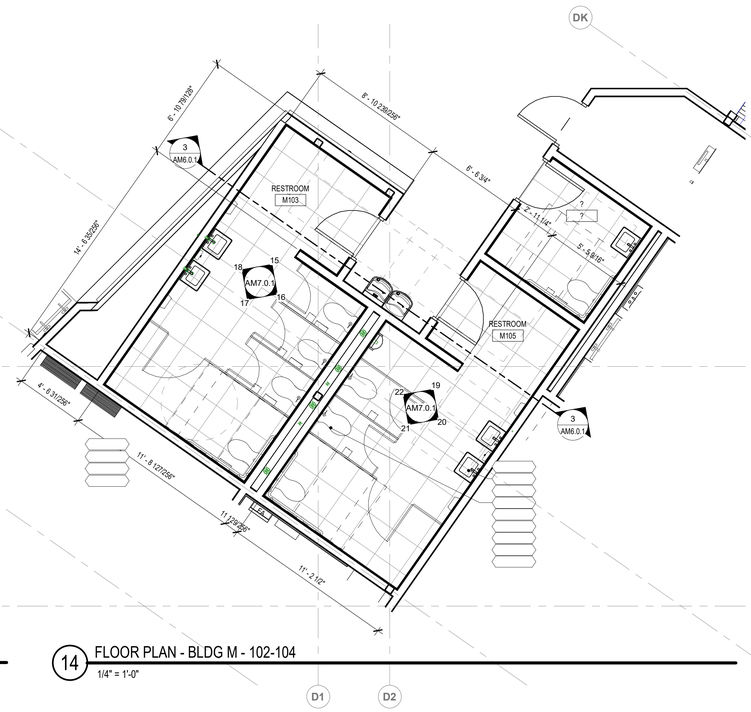
21 BLDG M - INT ELEV - M104 S
1/4" = 1'-0"



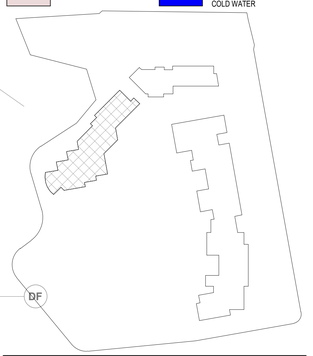
22 BLDG M - INT ELEV - M104 W
1/4" = 1'-0"



1 FLOOR PLAN - BLDG M - 150-153
1/4" = 1'-0"



14 FLOOR PLAN - BLDG M - 102-104
1/4" = 1'-0"



FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

102113.A06

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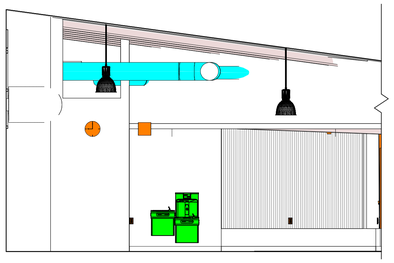
BUILDING M
ENLARGED PLANS,
INTERIOR ELEVATIONS

NO.	DATE	ISSUE

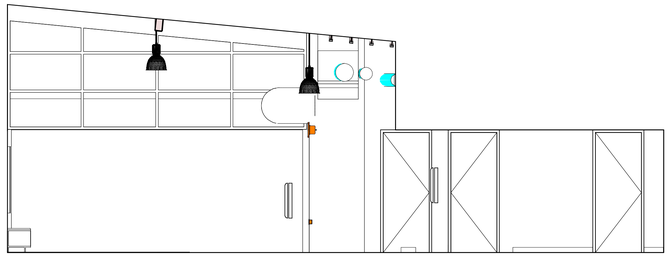
PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
AM7.0.1

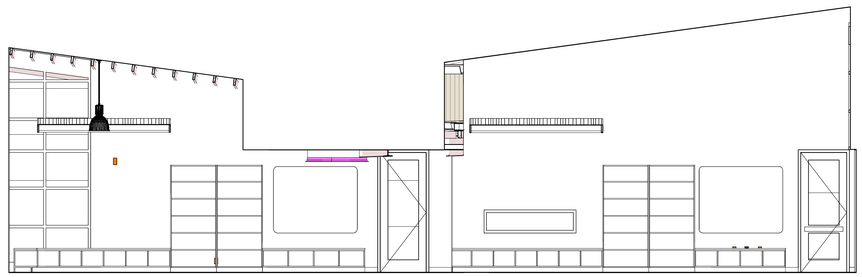
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2/24/2020 8:03:40 AM



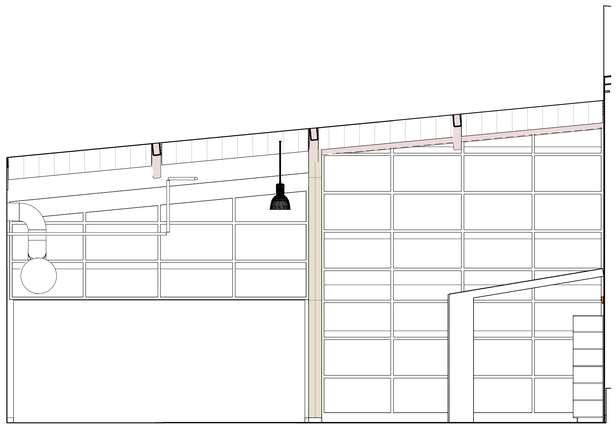
3 AM2.1.1 BLDG M - INT ELEV - M101 S
1/4" = 1'-0"



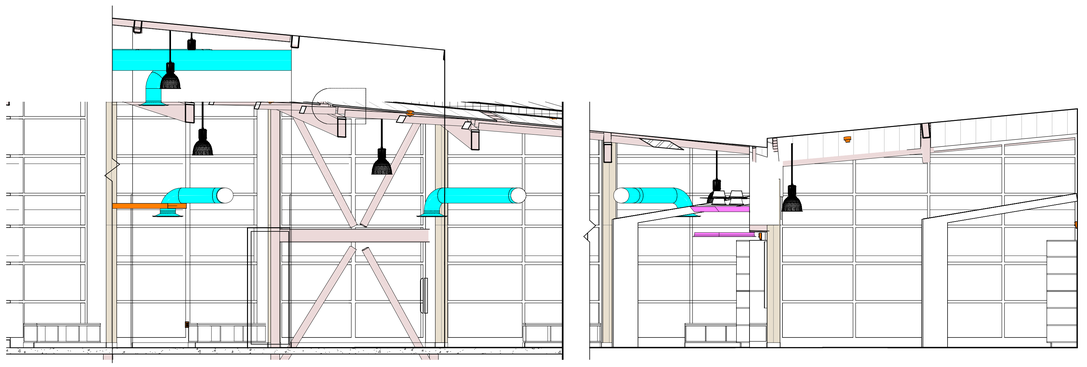
2 AM2.1.1 BLDG M - INT ELEV - M101 E
1/4" = 1'-0"



1 AM2.1.1 BLDG M - INT ELEV - M101 N
1/4" = 1'-0"

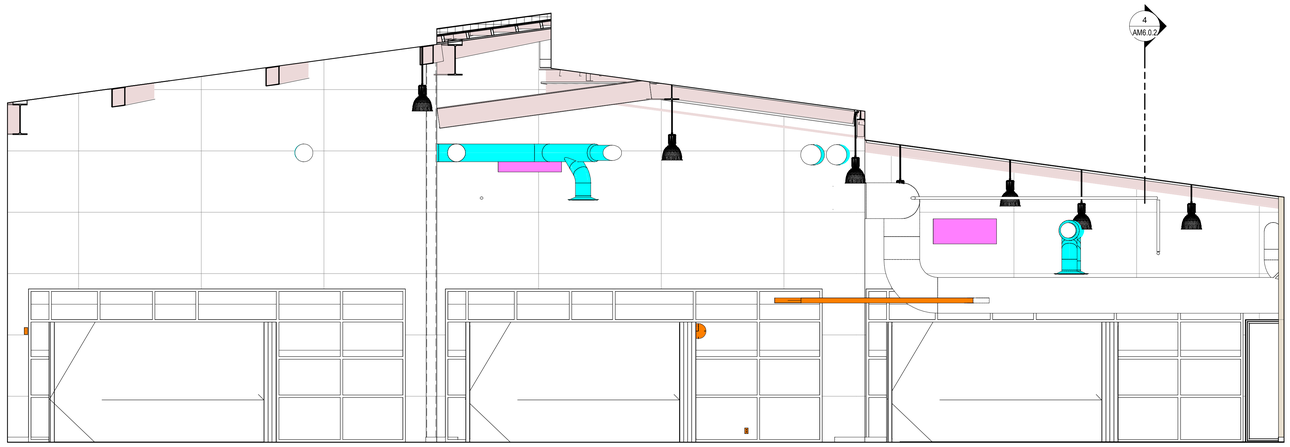


6 AM2.1.1 BLDG M - INT ELEV - M120 W1
1/4" = 1'-0"

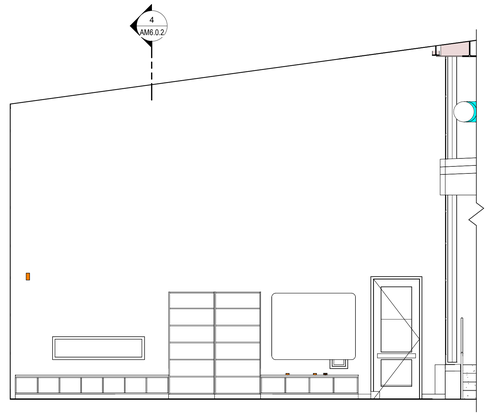


5 AM2.1.1 BLDG M - INT ELEV - M120 E1
1/4" = 1'-0"

4 AM2.1.1 BLDG M - INT ELEV - M101 W
1/4" = 1'-0"



8 AM2.1.1 BLDG M - INT ELEV - M120 S1
1/4" = 1'-0"



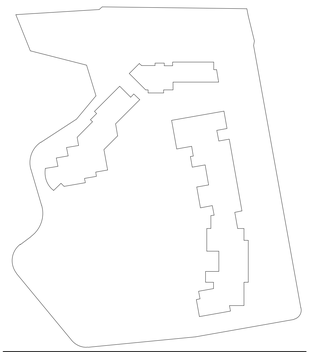
7 AM2.1.1 BLDG M - INT ELEV - M120 N1
1/4" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
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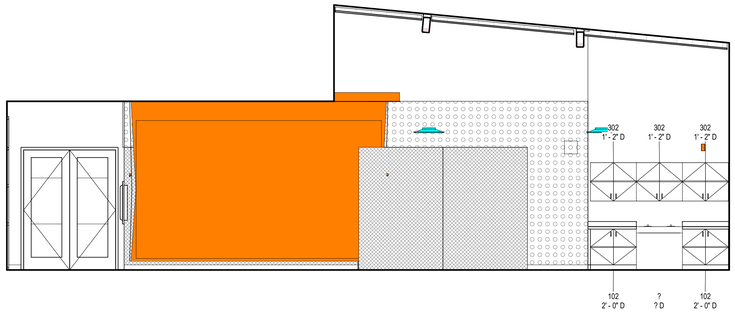
BUILDING M
INTERIOR ELEVATIONS

NO. DATE ISSUE

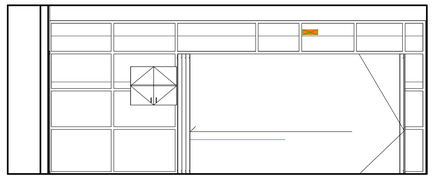
PROJECT NO: 19009
DATE: 02/28/2020

DRAWING
AM7.0.2

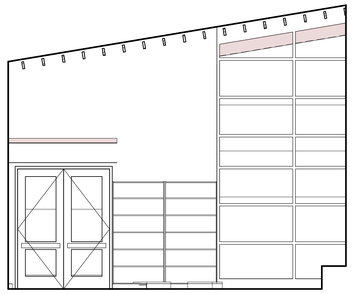
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2/24/2020 8:04:01 AM



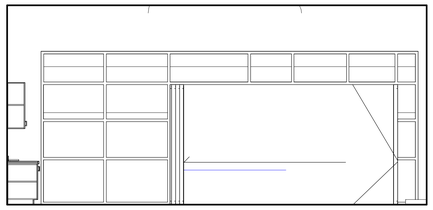
3 AM2.1.1 BLDG M - INT ELEV - M111 E
1/4" = 1'-0"



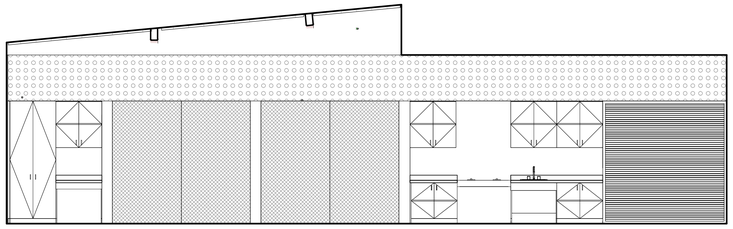
2 AM2.1.1 BLDG M - INT ELEV - M111 N
1/4" = 1'-0"



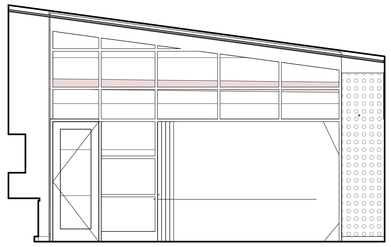
1 AM2.1.1 BLDG M - M101 SE
1/4" = 1'-0"



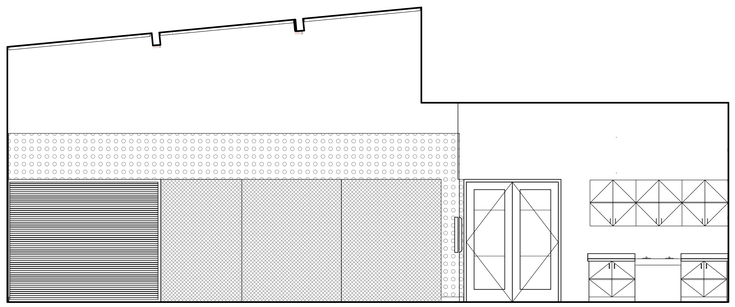
6 BLDG M - INT ELEV - M121 N
1/4" = 1'-0"



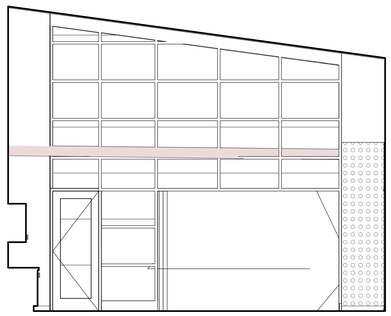
5 AM2.1.1 BLDG M - INT ELEV - M111 W
1/4" = 1'-0"



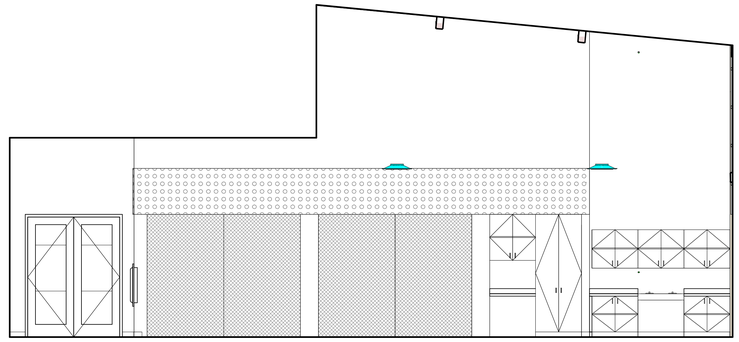
4 AM2.1.1 BLDG M - INT ELEV - M111 S
1/4" = 1'-0"



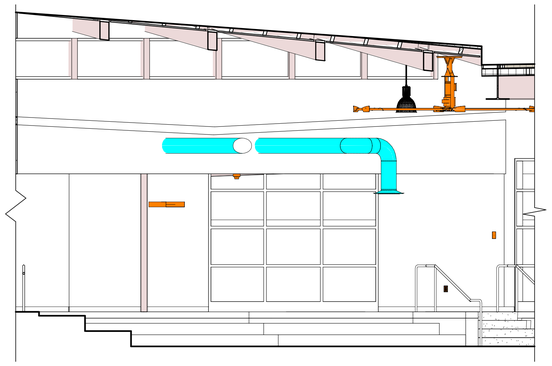
9 BLDG M - INT ELEV - M121 W
1/4" = 1'-0"



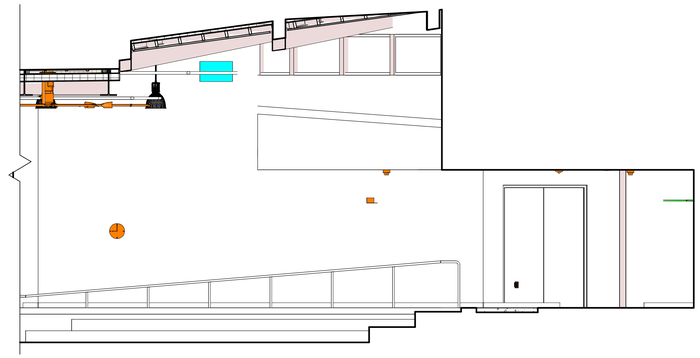
8 BLDG M - INT ELEV - M121 S
1/4" = 1'-0"



7 BLDG M - INT ELEV - M121 E
1/4" = 1'-0"



22 BLDG M - INT ELEV - M120 E2
1/4" = 1'-0"



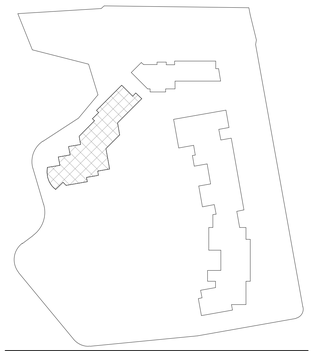
21 BLDG M - INT ELEV - M120 N2
1/4" = 1'-0"

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



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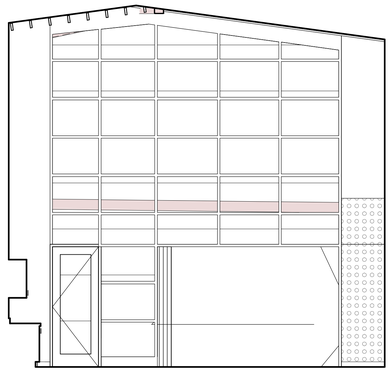
BUILDING M
INTERIOR ELEVATIONS

NO. DATE ISSUE

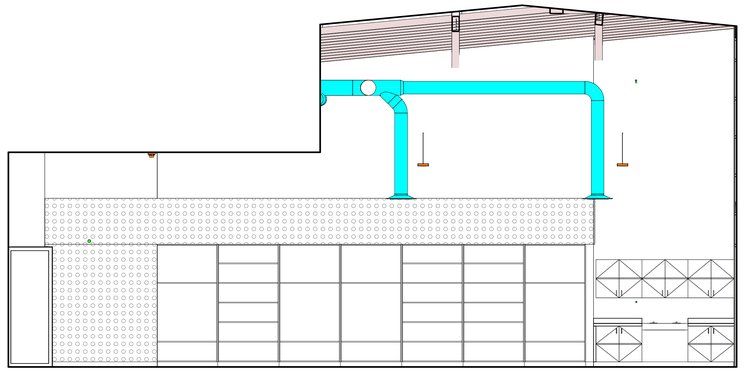
PROJECT NO: 19009
DATE: 02/28/2020

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AM7.0.3

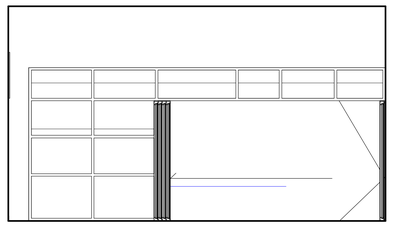
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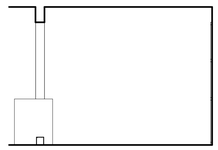
3 BLDG M - INT ELEV - M122 S
1/4" = 1'-0"



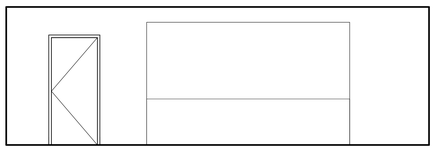
2 BLDG M - INT ELEV - M122 E
1/4" = 1'-0"



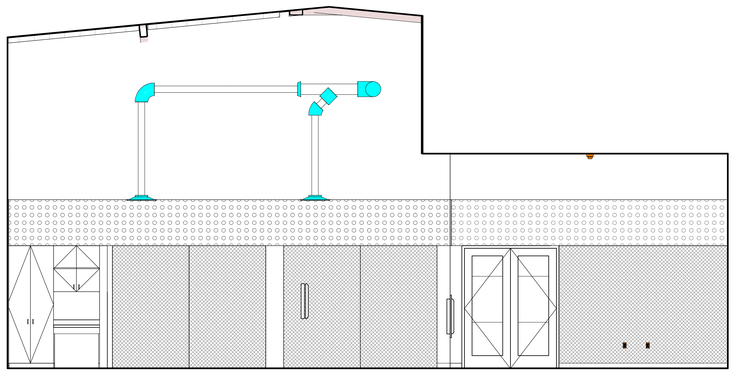
1 BLDG M - INT ELEV - M122 N
1/4" = 1'-0"



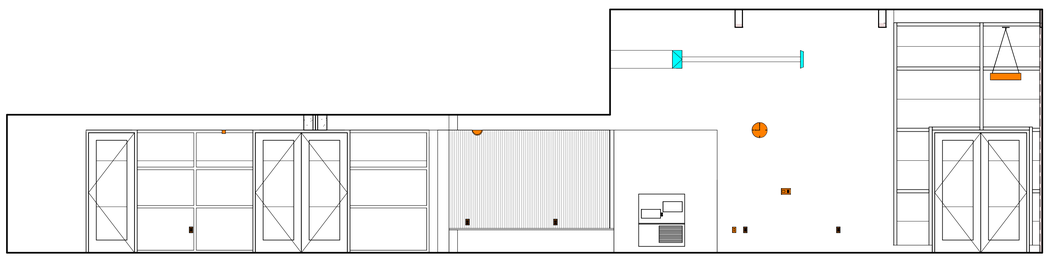
15 BLDG M - INT ELEV - M140 NE
1/4" = 1'-0"



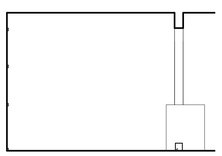
5 BLDG M - INT ELEV - M140 NW
1/4" = 1'-0"



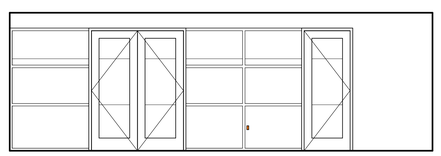
4 BLDG M - INT ELEV - M122 W
1/4" = 1'-0"



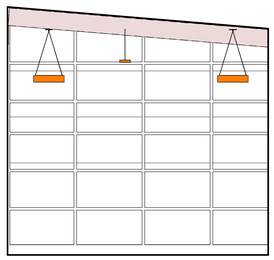
6 AA2.1.1 BLDG M - INT ELEV - M142 NW
1/4" = 1'-0"



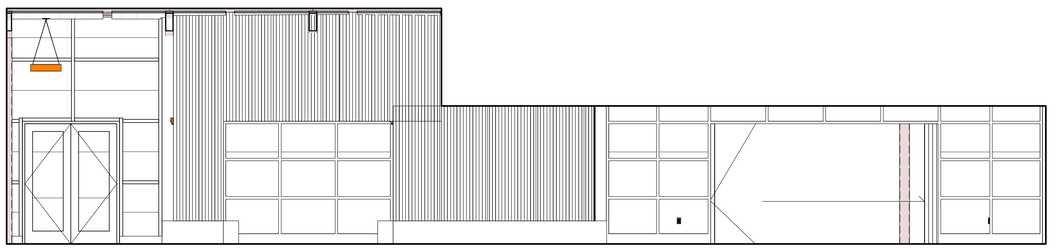
17 BLDG M - INT ELEV - M140 SW
1/4" = 1'-0"



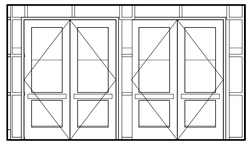
16 BLDG M - INT ELEV - M140 SE
1/4" = 1'-0"



9 BLDG M - INT ELEV - M142 NE
1/4" = 1'-0"



10 BLDG M - INT ELEV - M142 SE
1/4" = 1'-0"



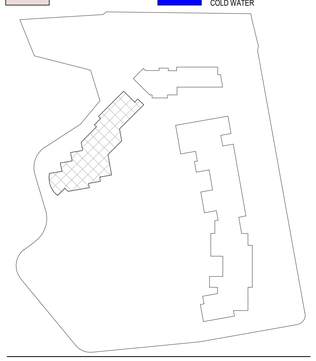
11 BLDG M - INT ELEV - M142 SW
1/4" = 1'-0"

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
MECHANICAL - SUPPLY	PLUMBING - STORM DRAIN
STRUCTURAL	PLUMBING - DOMESTIC COLD WATER



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BUILDING M
INTERIOR ELEVATIONS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

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AM7.0.4

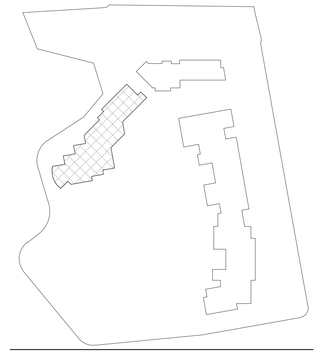
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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DISCIPLINE COLOR LEGEND

ELECTRICAL	FIRE PROTECTION - SPRINKLER
MECHANICAL - EQUIPMENT	MECHANICAL - SANITARY VENT
MECHANICAL - RETURN	MECHANICAL - EXHAUST
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BUILDING M
INTERIOR ELEVATIONS

NO. DATE ISSUE

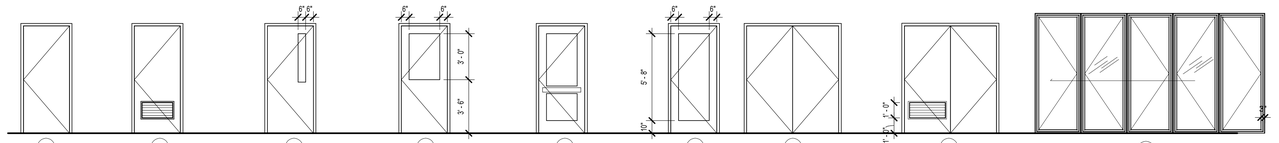
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DATE: 02/28/2020

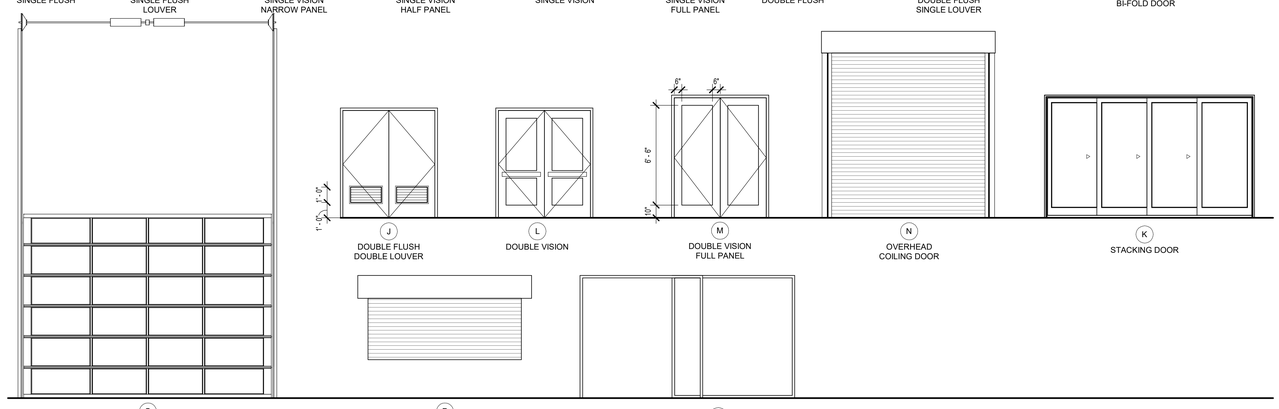
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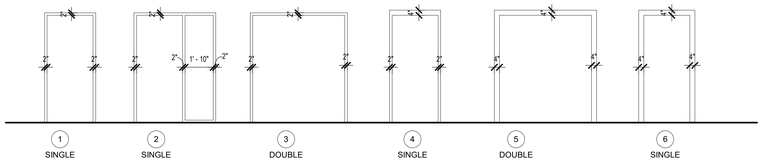
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SCHEDULE-DOOR & GATE - M

NO.	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MAT.	DOOR FIN.	DOOR GLASS	FRAME TYPE	FRAME MAT.	FRAME FIN.	OPENING LABEL	DETAILS HEAD	DETAILS JAMB	DETAILS THRESH	PANIC HDW	Hardware Group	REMARKS
M101A	6' - 0"	7' - 10"	L	ALUM	FF	GL-1	1	ALUM	FF					Yes		11
M101B	3' - 0"	7' - 10"	F	ALUM	FF	GL-1	1	ALUM	FF							11
M101C	3' - 0"	7' - 10"	E	ALUM	FF	GL-1	1	ALUM	FF					Yes		11
M101D	19' - 0"	8' - 0"	I	ALUM	FF	GL-3	1	ALUM	FF							
M103	3' - 0"	7' - 10"	A	WD	FF	-	1	HM	FF							
M104	3' - 0"	7' - 10"	A	WD	FF	-	1	HM	FF							
M105	3' - 0"	7' - 10"	A	WD	FF	-	1	HM	FF							
M106	4' - 0"	7' - 10"	A	HM	PFX	-	1	HM	PFX							11
M107	3' - 0"	7' - 10"	A	HM	PFX	-	1	HM	PFX							11
M108	3' - 0"	7' - 10"	A	HM	FF	-	1	HM	FF							
M120A	3' - 0"	7' - 10"	E	ALUM	FF	GL-1	1	ALUM	FF					Yes		11
M120B	3' - 0"	7' - 10"	E	ALUM	FF	GL-1	1	ALUM	FF					Yes		11
M120C	3' - 0"	7' - 10"	E	ALUM	FF	GL-1	1	ALUM	FF					Yes		11
M120D	22' - 0"	10' - 0"	I	ALUM	FF	GL-1	1	ALUM	FF							11
M122B	9' - 0"	8' - 0"	Z	WD	VCW-1	-	1	HM	FF							
M123A	3' - 0"	7' - 10"	F	ALUM	FF	GL-1	1	ALUM	FF							11
M123B	12' - 0"	7' - 10"	I	ALUM	FF	GL-1	1	ALUM	FF							11
M123C	14' - 10"	7' - 10"	I	ALUM	FF	GL-3	1	ALUM	FF					No		
M123D	6' - 0"	7' - 10"	M	WD	FF	GL-3	1	HM	FF							
M124	11' - 0"	8' - 0"	BB	WD	VCW-1	-	1	HM	FF							
M125	13' - 0"	8' - 0"	FF	WD	VCW-1	-	1	HM	FF							
M126A	3' - 0"	7' - 10"	F	ALUM	FF	GL-1	1	ALUM	FF							11
M126B	12' - 0"	7' - 10"	I	ALUM	FF	GL-1	1	ALUM	FF							11
M126C	14' - 10"	7' - 10"	I	ALUM	FF	GL-3	1	ALUM	FF					No		
M126D	6' - 0"	7' - 10"	M	WD	FF	GL-3	1	HM	FF							
M129A	3' - 0"	7' - 10"	F	ALUM	FF	GL-1	1	ALUM	FF							11
M129B	12' - 0"	7' - 10"	I	ALUM	FF	GL-1	1	ALUM	FF							11
M129C	14' - 10"	7' - 10"	I	ALUM	FF	GL-3	1	ALUM	FF							
M140	3' - 0"	7' - 10"	A	ALUM	FF	-	1	ALUM	FF							11
M141	6' - 0"	7' - 10"	G	WD	FF	-	1	HM	FF							
M142	6' - 0"	7' - 10"	G	HM	PFX	-	1	HM	FF							11
M143	3' - 0"	7' - 0"	A	WD	FF	-	1	HM	FF							
M144	3' - 0"	7' - 10"	A	WD	FF	-	1	HM	FF							
M145A	3' - 0"	7' - 0"	D	HM	PFX	-	1	HM	PFX							
M145B	3' - 0"	7' - 0"	A	WD	FF	-	1	HM	FF							
M146A	6' - 0"	7' - 10"	M	WD	FF	GL-3	1	HM	FF							
M146B	3' - 0"	7' - 10"	F	WD	FF	GL-3	1	ALUM	FF							
M147A	6' - 0"	7' - 10"	M	ALUM	FF	GL-1	1	ALUM	FF							11
M147B	6' - 0"	7' - 10"	M	ALUM	FF	GL-1	1	ALUM	FF							11
M147C	6' - 0"	7' - 10"	L	WD	FF	GL-3	1	HM	FF							
M147D	6' - 0"	7' - 10"	L	WD	FF	GL-3	1	HM	FF							
M147E	14' - 10"	7' - 10"	I	ALUM	FF	GL-1	1	ALUM	FF					Yes		11
M148	3' - 0"	7' - 10"	A	WD	PF-1		1	HM	PF-1							
M149	9' - 0"	8' - 0"	Z	WD	VCW-1	-	1	HM	FF							
M160	3' - 0"	7' - 10"	A	WD	FF	-	1	HM	FF							
M161	3' - 0"	7' - 10"	F	ALUM	FF	GL-1	1	ALUM	FF							11
M162	3' - 0"	7' - 10"	A	WD	FF	-	1	HM	FF							
M163	3' - 0"	7' - 10"	A	WD	FF	-	1	HM	FF							
M165	3' - 0"	7' - 10"	F	ALUM	FF	GL-1	1	ALUM	FF							11

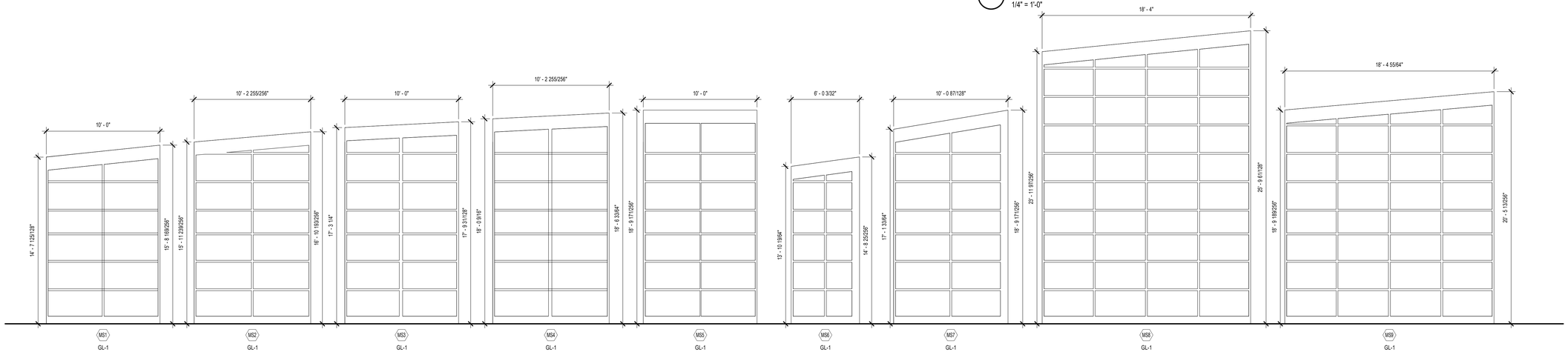






LEGEND-DOORS

1/4" = 1'-0"



BLDG M - WINDOW LEGEND

1/4" = 1'-0"

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2/24/2020 8:04:57 AM

LICENSED ARCHITECT JON ALAN BAKER NO.C14513 EXP. 2-29-19 STATE OF CALIFORNIA
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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DOOR SCHEDULE REMARKS

1. NOT USED
2. 90 DEGREE INHIBITOR/ DOOR STOP
3. 1" UNDERCUT
4. MAGNETIC HOLD OPEN
5. DOOR BY FOLDING PARTITION MANUFACTURER.
6. DOOR BELL
7. PEEP HOLE
8. STC - 40 SOUND CONTROL DOOR - 083473
9. STC - 53 SOUND CONTROL DOOR - 083473
10. FIRE RATED ENTRANCE DOOR SYSTEM - 084413
11. PROVIDE 20 MINUTE RATED DOORS.

GENERAL NOTES

1. DIMENSIONS TO EDGE MULLIONS ARE TO FACE OF FRAME.
2. FOR TYPICAL EXTERIOR WINDOW FLASHING DETAIL, SEE
3. REFERENCE WINDOW TYPES FOR DOOR / WINDOW FRAME COMBINATIONS
4. WHEN WINDOW TYPES ARE IMMEDIATELY ADJACENT ONLY ONE VERTICAL MULLION OCCURS, REFERENCE PLANS AND ELEVATIONS, AND WINDOW DETAILS
5. REFERENCE FINISH SCHEDULES FOR WINDOW SHADE LOCATIONS
6. INSTALL WINDOW SHADES PER TYPICAL DETAILS # 14, 15 & 16 / A9.4.1
7. PROVIDE DRIP EDGE AT EXTERIOR ALUMINUM DOOR HEADS, BY DOOR MANUFACTURER. FINISH TO MATCH.
8. ALL CLASSROOM DOORS STC - 31 - 081416
9. FOR DOOR HARDWARE TYPES, REFER TO SPEC SECTION 087100
10. PROVIDE BACKING PER 8/A9.9.1 AT ALL WALL MOUNTED DOOR STOPS.

SCHEDULE NOTES

GLASS TYPES

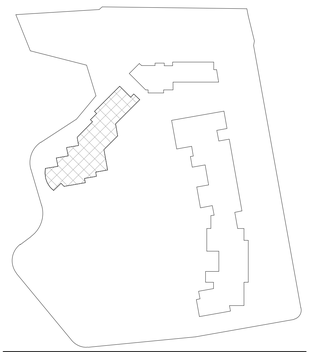
GL-1	INSULATED UNIT, TINTED, TEMPERED - 088000
GL-2	1/2", CLEAR, TEMPERED - 088000
GL-3	1/4" SINGLE VISION, TINTED, TEMPERED - 088000
GL-4	1/4" SINGLE VISION, CLEAR, TEMPERED - 088000
GL-5	SPANDREL, TEMPERED - 088000
GL-6	ACOUSTICAL, LAMINATED, CLEAR - 088000
GL-7	INSULATED UNIT, LAMINATED, TRANSPARENT COLORED - 088000
COLOR 1	
COLOR 2	
GL-8	FIRE RATED GLASS - 60 MIN - 088000
GL-9	FIRE RATED GLASS - 45 MIN - 088000
GL-10	INSULATED UNIT, LAMINATED, OPAQUE

MATERIALS COLORED - 088000

ALUM	ALUMINUM
HM	HOLLOW METAL
WD	WOOD
STL	STEEL
FG	FULL GLASS
SS	STAINLESS STEEL
FF	FACTORY FINISH

WINDOW FRAME TYPES

SF-1	ALUMINUM STOREFRONT - CENTER GLAZING - 084113
CW-1	ALUMINUM CURTAIN WALL - 6" DEEP - 084413
CW-2	ALUMINUM CURTAIN WALL - 7 1/2" DEEP - 084413
CW-3	ALUMINUM CURTAIN WALL - 5" DEEP - 60 MIN RATED - 084413



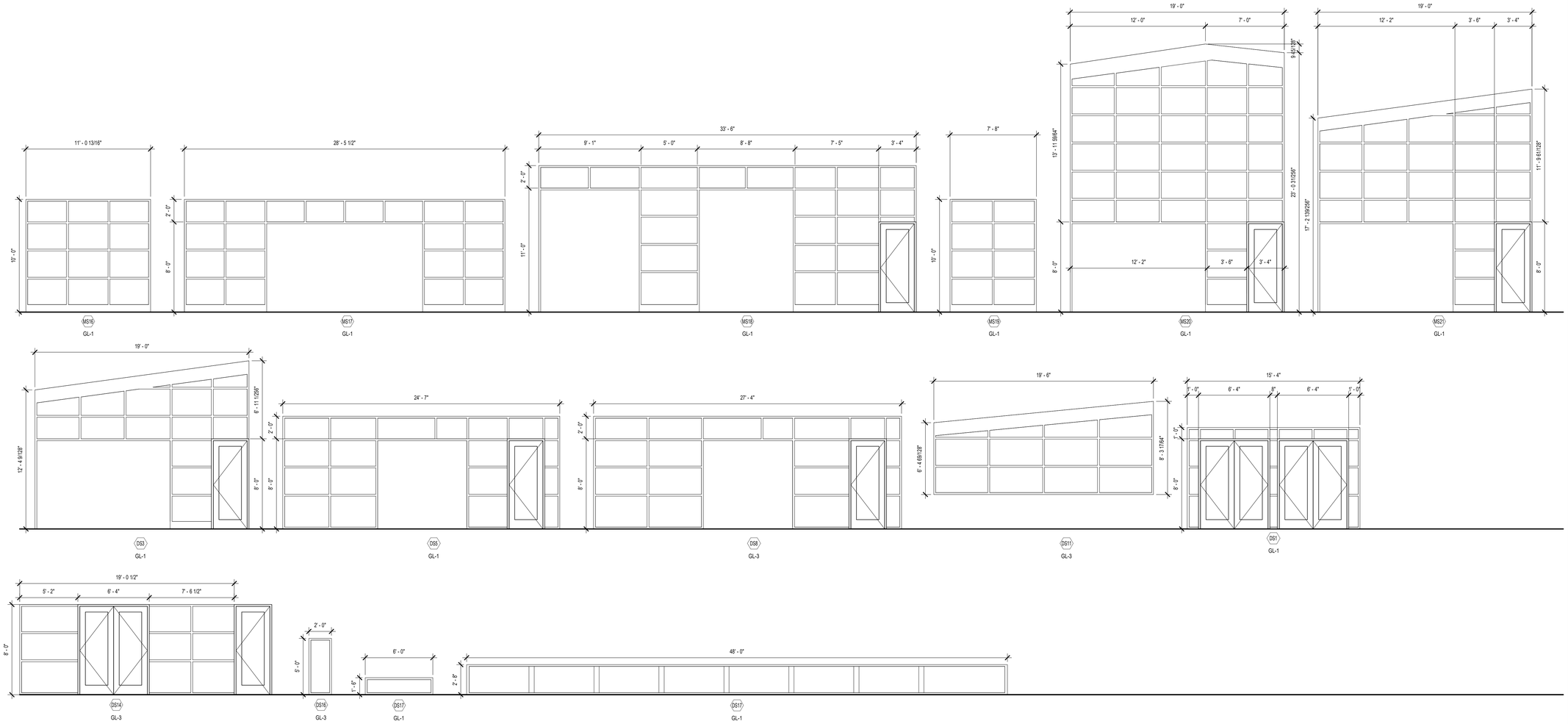
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BUILDING M
DOOR AND WINDOW SCHEDULES

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/28/2020

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AM8.0.1



BLDG M - WINDOW LEGEND - CONT'D

1/4" = 1'-0"

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL REBUILD

DOOR SCHEDULE REMARKS

1. NOT USED
2. 90 DEGREE INHIBITOR/ DOOR STOP
3. 1" UNDERCUT
4. MAGNETIC HOLD OPEN
5. DOOR BY FOLDING PARTITION MANUFACTURER.
6. DOOR BELL
7. PEEP HOLE
8. STC - 40 SOUND CONTROL DOOR - 083473
9. STC - 53 SOUND CONTROL DOOR - 083473
10. FIRE RATED ENTRANCE DOOR SYSTEM - 084413
11. PROVIDE 20 MINUTE RATED DOORS.

GENERAL NOTES

1. DIMENSIONS TO EDGE MULLIONS ARE TO FACE OF FRAME.
2. FOR TYPICAL EXTERIOR WINDOW FLASHING DETAIL, SEE
3. REFERENCE WINDOW TYPES FOR DOOR / WINDOW FRAME COMBINATIONS
4. WHEN WINDOW TYPES ARE IMMEDIATELY ADJACENT ONLY ONE VERTICAL MULLION OCCURS, REFERENCE PLANS AND ELEVATIONS, AND WINDOW DETAILS.
5. REFERENCE FINISH SCHEDULES FOR WINDOW SHADE LOCATIONS
6. INSTALL WINDOW SHADES PER TYPICAL DETAILS # 14, 15 & 16 / A9.4.1
7. PROVIDE DRIP EDGE AT EXTERIOR ALUMINUM DOOR HEADS, BY DOOR MANUFACTURER. FINISH TO MATCH.
8. ALL CLASSROOM DOORS STC - 31 - 081416
9. FOR DOOR HARDWARE TYPES, REFER TO SPEC SECTION 087100
10. PROVIDE BACKING PER 8/A9.9.1 AT ALL WALL MOUNTED DOOR STOPS.

SCHEDULE NOTES

GLASS TYPES

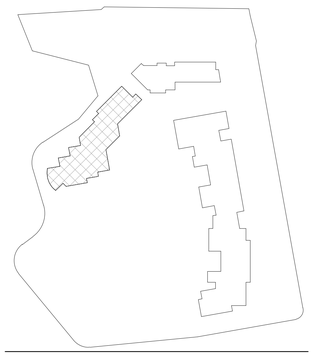
GL-1	INSULATED UNIT, TINTED, TEMPERED - 088000
GL-2	1/2", CLEAR, TEMPERED - 088000
GL-3	1/4" SINGLE VISION, TINTED, TEMPERED - 088000
GL-4	1/4" SINGLE VISION, CLEAR, TEMPERED - 088000
GL-5	SPANDREL, TEMPERED - 088000
GL-6	ACOUSTICAL, LAMINATED, CLEAR - 088000
GL-7	INSULATED UNIT, LAMINATED, TRANSPARENT COLORED - 088000
COLOR 1	
COLOR 2	
GL-8	FIRE RATED GLASS - 60 MIN - 088000
GL-9	FIRE RATED GLASS - 45 MIN - 088000
GL-10	INSULATED UNIT, LAMINATED, OPAQUE

MATERIALS

ALUM	ALUMINUM
HM	HOLLOW METAL
WD	WOOD
STL	STEEL
FG	FULL GLASS
SS	STAINLESS STEEL
FF	FACTORY FINISH

WINDOW FRAME TYPES

SF-1	ALUMINUM STOREFRONT - CENTER GLAZING - 084113
CW-1	ALUMINUM CURTAIN WALL - 6" DEEP - 084413
CW-2	ALUMINUM CURTAIN WALL - 7 1/2" DEEP - 084413
CW-3	ALUMINUM CURTAIN WALL - 5" DEEP - 60 MIN RATED - 084413



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BUILDING M

DOOR AND WINDOW SCHEDULES

NO. DATE ISSUE

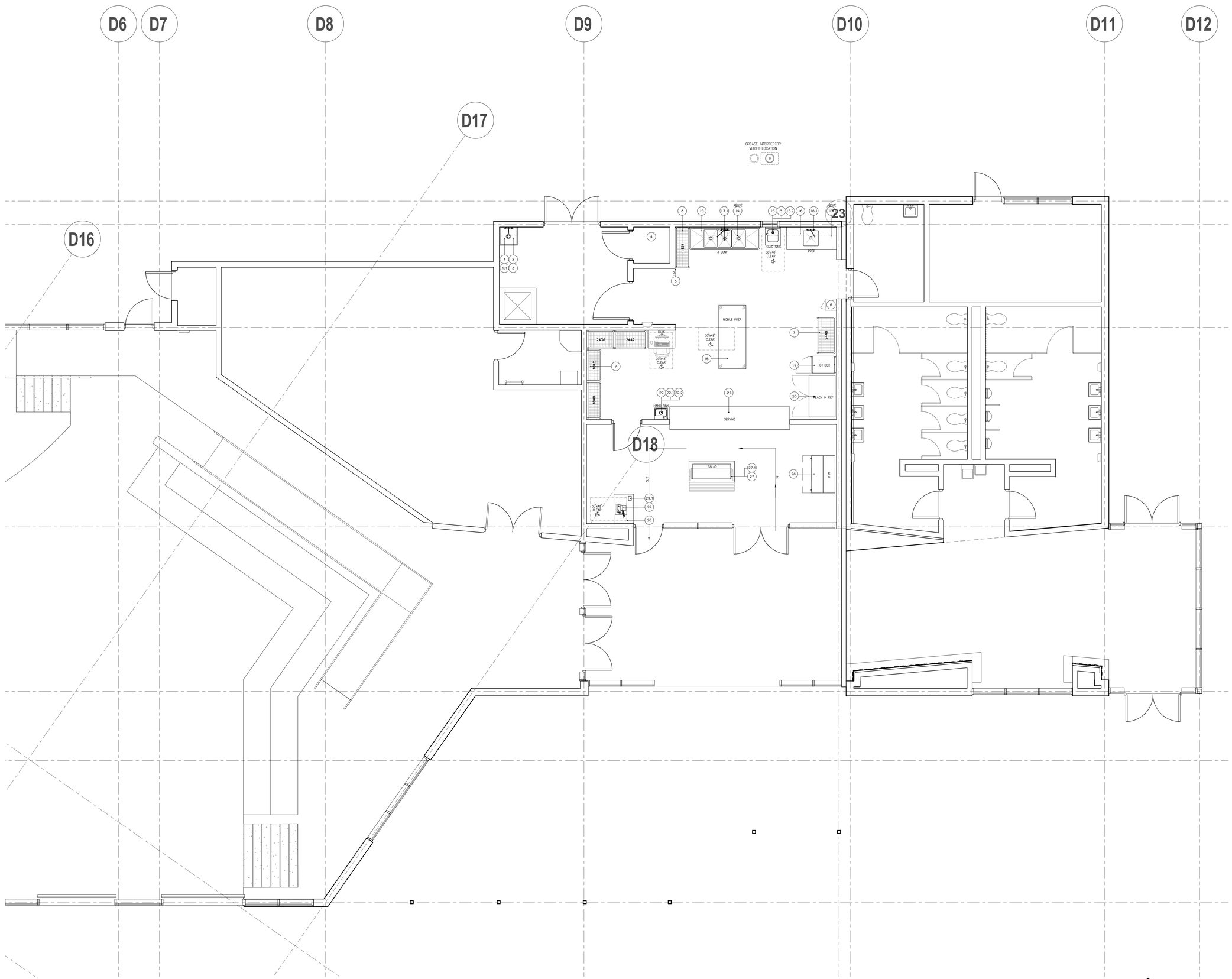
PROJECT NO: 19009
DATE: 02/28/2020

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NOTE:
KITCHEN IS ENTIRELY ENCLOSED WITH NON OPERABLE WINDOWS. ALL DOORS TO BE SELF CLOSING.

NOTE:
EQUIPMENT TAG CORRESPONDS TO EQUIPMENT SCHEDULE ON SHEET FS-2



1 FOOD SERVICE FLOOR PLAN
1/4" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

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FOODSERVICE EQUIPMENT FLOOR PLAN

NO.	DATE	ISSUE

PROJECT NO: 19009
DATE: 12/12/2019

DRAWING
FS-1

EQUIPMENT SCHEDULE

ITEM NO	QTY	EQUIPMENT CATEGORY	AMPS	HP	VOLTS	PHASE	DIRECT	PLUG	NEMA	COLD WATER SIZE (IN)	HOT WATER SIZE (IN)	DIRECT DRAIN SIZE (IN)	INDIR DRAIN SIZE (IN)	GAS SIZE (IN)	MBTUH	EQUIPMENT REMARKS
1	1	MOPSINK, FLOOR MOUNTED (24"X24"X12")										3				(PROVIDED & INSTALLED BY PLUMBING CONTRACTOR) NON-POROUS CONSTRUCTION
1.1	1	MOPSINK FAUCET								1/2	1/2					W/ INTEGRAL ATMOSPHERIC VACUUM BREAKER (PROVIDED & INSTALLED BY PLUMBER). G.C. TO PROVIDE WALL BACKING FOR SUPPORT
2	1	RACK, BRUSH/BROOM														STEEL TYPE, PROVIDED BY K.E.C.
3	1	MOPSINK STORAGE WALL SHELF														STAINLESS STEEL. G.C. TO PROVIDE WALL BACKING FOR SUPPORT.
4	1	WATER HEATER	X				X			X				X		--- GPH RECOVERY AT -- DEGREE RISE. SEE PLUMBING DRAWINGS FOR MORE INFO
5	LOT	CORNER GUARDS & END CAPS														STAINLESS STEEL. AT ALL EXPOSED CORNERS
6	1	EMPLOYEE LOCKERS														MIN. (1) TO BE ACCESSIBLE
7	LOT	DRY STORAGE														TOP SHELF NO HIGHER THAN 5'-9" A.F.F; WIRE TYPE W/ 6" NSF LEGS. PROVIDE MIN. 96 LINEAR FEET
8	LOT	DISH STORAGE														TOP SHELF NO HIGHER THAN 5'-9" A.F.F; WIRE TYPE W/ 6" NSF LEGS
9	1L	GREASE INTERCEPTOR														SEE PLUMBING DRAWINGS FOR MORE INFORMATION; CAN NOT BE LOCATED IN OR SERVICED THROUGH ANY FOOD PREP, FOOD STORAGE OR FOOD HANDLING AREAS
10	–	SPARE NUMBER														
11	–	SPARE NUMBER														
12	–	SPARE NUMBER														
13	1	3 COMPARTMENT SINK											3			CUSTOM STAINLESS STEEL; 18"X24"X14"D., W/ INTEGRATED 18" MIN. DRAINBOARD EACH SIDE AND 8" BACKSPLASH. DRAINS TO FLOOR SINK (FLOOR SINK TO HAVE 3" TRAPPED DRAIN)
13.1	1	PRE-RINSE SPRAYER W/ ADD ON FAUCET								1/2	1/2					
14	1	WALL SHELF, STAINLESS STEEL														G.C. TO PROVIDE WALL BACKING FOR SUPPORT
15	1	HAND SINK W/ FAUCET, WALL MOUNT, ACCESSIBLE										1-1/2				PROVIDE 6" STAINLESS STEEL SPLASHGUARDS
15.1	1	FAUCET								1/2	1/2					FOR USE WITH HAND SINK
15.2	1	SOAP & SINGLE SERVICE TOWEL DISPENSER														FOR USE WITH HAND SINK
16	1	PREP TABLE W/ INTEGRAL PREP SINK											1-1/2			STAINLESS STEEL. 20"X20" BOWL. MEETS EHP-883. DRAINS TO FLOOR SINK.
16.1	1	FAUCET, DECK MOUNT								1/2	1/2					USED FOR PREP SINK
17	1	WALL SHELF, STAINLESS STEEL														G.C. TO PROVIDE WALL BACKING FOR SUPPORT
18	1	PORTABLE PREP TABLE, MOBILE (36"X84")														STAINLESS STEEL. ON LOCKING CASTERS.
19	1	CABINET, MOBILE, WARMING & HOLDING	16.0		120	1		X	5-20P							
20	1	REFRIGERATOR, REACH-IN	8.0		115	1		X	5-15P							SELF CONTAINED
21	1	SERVICE CABINET WITH COUNTERTOP														CUSTOM NSF STAINLESS STEEL CABINET AND TOP, DOORS & SHELVES WHERE NEEDED. +34"
22	1	HAND SINK, WALL MOUNT										1-1/2				STAINLESS STEEL. 14"X10"X6"D. PROVIDE 6" STAINLESS STEEL SPLASHGUARD AS REQUIRED
22.1	1	FAUCET								1/2	1/2					USED FOR HAND SINK
22.2	1	SOAP & SINGLE SERVICE TOWEL DISPENSER														FOR USE WITH HAND SINK
23	–	SPARE NUMBER														
24	–	SPARE NUMBER														
25	–	SPARE NUMBER														
26	1	MILK COOLER	7.5	1/4	115	1		X	5-15P				3/4			
27	1	SALAD BAR W/ TRAY SLIDE		5 2/3	120	1		X	5-15P				3/4			DRAINS TO FLOOR SINK
27.1	1	SNEEZE GUARD, STAINLESS STEEL W/ TEMPERED GLASS														SELF SERVE TYPE; INCLUDE WITH ITEM #10
28	1	POS STATION - ADA ACCESSIBLE FOR CASHIER														ADA COMPLIANT, W/ TRAY SLIDES, ON CASTERS 2 LOCKING
29	1	P.O.S.	5.0		120		X									
29.1	1	P.O.S. CARD READER	5.0		120		X									

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FOODSERVICE EQUIPMENT SCHEDULE

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LIST OF ABBREVIATIONS

ADD'L.	ADDITIONAL
ALT.	ALTERNATE
ACI	AMERICAN CONCRETE INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
A.B.	ANCHOR BOLT(S)
APPROX.	APPROXIMATELY
ARCH.	ARCHITECT / ARCHITECTURAL
@	AT
B. PL.	BASE PLATE
BM.	BEAM
BRG.	BEARING
BTWN.	BETWEEN
BLK.	BLOCK
BLKG.	BLOCKING
B.E.	BOTH ENDS
BOT. OR BOTT.	BOTTOM
B.N.	BOUNDARY NAILS
BLDG.	BUILDING
C	CAMBER
CBC	CALIFORNIA BUILDING CODE
CIP	CAST IN PLACE
CLG.	CEILING
CJ	CEILING JOIST OR CONSTRUCTION JOINT OR CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION WELD
CL	CENTER LINE
CLR.	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CMU	CONCRETE MASONRY UNIT
COND.	CONDITION
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONT'D	CONTINUED
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CSK.	COUNTERSINK
DL	DEAD LOAD
DP	DEEP
DEMO.	DEMOLISH
DTL. OR DET.	DETAIL
DIAG.	DIAGONAL
DIA. OR ø	DIAMETER
DIM.	DIMENSION
DO	DITTO
DBL.	DOUBLE
D.F.	DOUGLAS FIR
DWL.	DOWEL
DN.	DOWN
DWG.	DRAWING
EA.	EACH
E.F.	EACH FACE
E.S.	EACH SIDE
E.W.	EACH WAY
E.N.	EDGE NAIL(S)
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EMBED.	EMBEDMENT
ENG.	ENGINEER
EQ.	EQUAL
EQUIP.	EQUIPMENT
EXCAV.	EXCAVATION
(E)	EXISTING
EXP.	EXPANSION
EJ	EXPANSION JOINT
EXT.	EXTERIOR
F.O.C.	FACE OF CONCRETE
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD OR FACE OF SLAB
F.S.	FAR SIDE
FIN.	FINISH
F.F.	FINISHED FLOOR
FHWS	FLAT HEAD WOOD SCREW
FLR.	FLOOR
FD	FLOOR DRAIN
FTG.	FOOTING
FNDN.	FOUNDATION
FRMG.	FRAMING
GALV.	GALVANIZE
GA.	GAUGE
GLU-LAM	GLUED LAMINATED
GLB	GLUED LAMINATED BEAM
GR.	GRADE
HGR.	HANGER
HR	HARDROCK
HDR.	HEADER
HT.	HEIGHT
HD	HOLD DOWN
HSS	HOLLOW STRUCTURAL SECTION
HORIZ.	HORIZONTAL
INFO.	INFORMATION
I.D.	INSIDE DIAMETER
INT.	INTERIOR
IBC	INTERNATIONAL BUILDING CODE
ICC	INTERNATIONAL CODE COUNCIL
INV.	INVERT
JST.	JOIST
KP.	KING POST
KSI	KIPS PER SQUARE INCH
LAM.	LAMINATED
LDGR.	LEDGER
LT. WT. OR LW	LIGHT WEIGHT
LL	LIVE LOAD
LG.	LONG OR LENGTH
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LO-HY	LOW HYDROGEN
M.B.	MACHINE BOLT(S)
MFR.	MANUFACTURER
MAS.	MASONRY
M.O.	MASONRY OPENING
MATL.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MTL.	METAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MU	MECHANICAL UNIT
N.F.	NEAR FACE
N.S.	NEAR SIDE
NSA	NELSON STUD ANCHOR
(N)	NEW
NIC.	NOT IN CONTRACT
NTS.	NOT TO SCALE
NO. OR #	NUMBER
O.C.	ON CENTER
OPNG.	OPENING
OPP.	OPPOSITE
O.H.	OPPOSITE HAND
O.D.	OUTSIDE DIAMETER
PHWS	PAN HEAD WOOD SCREW
P.J.	PANEL JOINT
d	PENNY
PIL.	PILASTER
PL. OR ℙ	PLATE (STEEL OR WOOD)
PLY.	PLYWOOD
PWJ	PLYWOOD WEB JOIST
PCF	POUNDS PER CUBIC FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTDF	PRESSURE TREATED DOUGLAS FIR
PL	PROPERTY LINE
RAD.	RADIUS
RFTR.	RAFTER
REF.	REFERENCE
REINF.	REINFORCING
REQ'D	REQUIRED
REQMT.	REQUIREMENT
RF.	ROOF
R.D.	ROOF DRAIN
RO.	ROUGH
R.O.	ROUGH OPENING
SCHED.	SCHEDULE
SEC.	SECTION
SEL.	SELECT
SEP.	SEPARATION
SHTG.	SHEATHING
SHT.	SHEET

LIST OF ABBREVIATIONS (CONT'D)

S.M.	SHEET METAL
SMS	SHEET METAL SCREWS
SIM.	SIMILAR
SIMP.	SIMPSON
SPCG.	SPACING
SPECS.	SPECIFICATION
SQ.	SQUARE
STGR.	STAGGER
S.S.	STAINLESS STEEL
SPC	STANDARD PIPE COLUMN
STD.	STANDARD
STL.	STEEL
STIFF.	STIFFENER
STIRR.	STIRRUP
STRUCT.	STRUCTURAL
SYM.	SYMMETRICAL
TSG	TAPERED STEEL GIRDER
THK.	THICK
K OR KIP	1,000 POUNDS
THRU	THROUGH
TN	TOE NAIL
T&G	TONGUE AND GROOVE
T&B	TOP AND BOTTOM
T.O.F.	TOP OF FOOTING
T.O.L.	TOP OF LEDGER
T.O.S.	TOP OF STEEL OR TOP OF SHEATHING
T.O.W.	TOP OF WALL
TL	TOTAL LOAD
TS	TUBE STEEL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
WT.	WEIGHT
WWF	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT
WD.	WOOD
WJ	WOOD-I-JOIST
WP	WORK POINT
W.S.	WOOD SCREW

GENERAL

1. THESE STRUCTURAL DRAWINGS AND SPECIFICATIONS, INCLUDING ANY ADDENDA (COLLECTIVELY "THE PLANS") INCORPORATE ALL LEGAL AND INDUSTRY REQUIREMENTS AND STANDARDS INCLUDING WITHOUT LIMITATION THE FOLLOWING:
   - THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 1 (CALIFORNIA ADMINISTRATIVE CODE), 2019 EDITION.
   - THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2 (CALIFORNIA BUILDING CODE), 2019 EDITION.
   - OTHER REGULATING AGENCIES WHICH MAY HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
   - THE FUNCTIONALITY STANDARDS SET FORTH IN TITLE 7 OF THE CALIFORNIA CIVIL CODE ("THE 'RIGHT TO REPAIR ACT').
   - THE MANUFACTURER'S REQUIREMENTS OR RECOMMENDATIONS FOR ANY INCORPORATED PRODUCTS.
   - THE MOST CURRENT APPROVED ISSUES OF ANY NOTED SPECIFICATIONS, CODES AND STANDARDS, INCLUDING SUPPLEMENTS, UNLESS NOTED OTHERWISE.
2. THE PLANS REPRESENT ONLY THE FINISHED STRUCTURE, AND THEY ARE NOT INTENDED TO INDICATE OR REQUIRE ANY CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES. IN PARTICULAR AND WITHOUT LIMITATION, THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR ANY AND ALL EXCAVATION, DEMOLITION, SHORING AND ERECTION PROCEDURES AND FOR ANY AND ALL SAFETY PROGRAMS AND PRECAUTIONS.
3. IN USING THE PLANS FOR BIDDING OR CONSTRUCTION PURPOSES, THE CONTRACTOR IS REQUIRED TO REVIEW ALL OF THE PROJECT'S CONSTRUCTION DOCUMENTS AS A WHOLE IN ORDER TO IDENTIFY ALL REQUIREMENTS THAT DIRECTLY OR INDIRECTLY AFFECT ITS PORTION OF THE STRUCTURAL WORK, EVEN REQUIREMENTS LOCATED IN SECTIONS DESIGNATED AS APPLICABLE TO OTHER TRADES. IN CASE OF CONFLICTS, THE CONTRACTOR SHALL EITHER OBTAIN DIRECTION FROM AN APPROPRIATE OWNER REPRESENTATIVE OR OTHERWISE APPLY THE MORE STRINGENT REQUIREMENT.
4. IN INTERPRETING THE PLANS, THE FOLLOWING GENERAL RULES APPLY:
   - WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.
   - SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
   - WORK NOT PARTICULARLY SHOWN OR SPECIFIED SHALL BE THE SAME AS SIMILAR PARTS THAT ARE SHOWN OR SPECIFIED.
   - SCALED DIMENSIONS AND GRAPHICALLY SHOWN LOCATIONS ARE TO BE CONSIDERED ONLY APPROXIMATE.
5. IN IMPLEMENTING THE PLANS, THE FOLLOWING GENERAL RULES APPLY:
   - BECAUSE THE PLANS ARE INTENDED TO SET FORTH THE REQUIREMENTS FOR CONSTRUCTION IN ONLY AN INDUSTRY-STANDARD LEVEL OF QUALITY AND DETAIL, AND THEREFORE ARE INTENDED TO BE SUPPLEMENTED BY APPROPRIATE REQUESTS FOR CLARIFICATION AND INFORMATION, ERRORS AND OMISSIONS ARE TO BE EXPECTED AND ANTICIPATED; AND THE CONTRACTOR IS REQUIRED TO CAREFULLY REVIEW THE PLANS FOR ERRORS AND OMISSIONS AND TO BRING THESE ERRORS AND OMISSIONS TO THE ATTENTION OF AN APPROPRIATE OWNER REPRESENTATIVE IN A TIMELY MANNER AND ASSUME THE RISK OF THE CONSEQUENCES OF FAILING TO DO SO BEFORE BIDDING OR OTHERWISE PROCEEDING.
   - THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION, AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.
6. SUBMITTALS WILL BE REVIEWED BY THE STRUCTURAL ENGINEER, IF AT ALL, ONLY PURSUANT TO THE INDUSTRY-STANDARD PROTOCOL SET FORTH IN AIA DOCUMENT A201, AND IN NO EVENT WILL THE SUBMITTAL REVIEW PROCESS RELIEVE OR LESSEN THE SUBMITTING CONTRACTOR'S RESPONSIBILITY FOR AN INAPPROPRIATE SUBMITTAL.
7. IN NO EVENT WILL ANY SITE VISITS BY THE STRUCTURAL ENGINEER CONCERN CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY, AND ALL SUCH MATTERS SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
8. COPIES OF THE PLANS PROVIDED IN ANY ELECTRONIC FORM ARE SUBJECT TO THE SAME PROVISIONS AS THE OTHER INSTRUMENTS OF SERVICE PREPARED BY OR ON BEHALF OF STRUCTURAL ENGINEER FOR THE PROJECT, INCLUDING WITHOUT LIMITATION THE ENGINEER'S COMMON LAW, STATUTORY OR OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. A RECIPIENT IS GRANTED AT MOST A TRANSFERABLE NONEXCLUSIVE LICENSE TO REUSE THE PLANS SOLELY FOR PROJECT PURPOSES; AND NO RECIPIENT IS AUTHORIZED TO USE OR TO ALLOW THE USE OF ALL OR ANY PORTION OF THESE PLANS FOR ANY OTHER PURPOSE, AND ANY USE FOR ANY OTHER PURPOSE WOULD CONSTITUTE ACTIONABLE PLAGIARISM. STRUCTURAL ENGINEER PROVIDES DOCUMENTS IN AN ELECTRONIC FORM ONLY IN ITS STANDARD FORMATS AND CONVENTIONS AND WITH NO GUARANTEE OF COMPATIBILITY WITH ANY RECIPIENT'S SOFTWARE OR HARDWARE, AND ANY USE WITH OR CONVERSION TO OTHER FORMATS OR CONVENTIONS, OR THE USE WITH ANY PARTICULAR SOFTWARE OR HARDWARE, IS AT THE RECIPIENT'S SOLE RISK.

PROJECT DESIGN CRITERIA

1. BASIC DESIGN LIVE LOADS:

   ROOF: 20 PSF (REDUCIBLE)
   5 PSF (SHADE STRUCTURE)

2. WIND LOADS

   RISK CATEGORY: III
   EXPOSURE CATEGORY: C
   ULTIMATE DESIGN WIND SPEED (3-SECOND GUST), V_{ULT} = 115 MPH
   NOMINAL DESIGN WIND SPEED, V_{ASD} = 89 MPH
   VELOCITY PRESSURE EXPOSURE COEFFICIENT, K_z = 0.92 (z = 22' MAX)
   TOPOGRAPHIC FACTOR, K_{zt} = 1.0
   WIND DIRECTIONALITY FACTOR, K_d = 0.85

   A. MWFRS - DIRECTIONAL PROCEDURE (ASCE 7-16, CH. 27)

   $q_z = 0.00256\ K_z\ K_{zt}\ K_d\ V_{ULT}^2 = 26.5$ PSF

   $P = qGC_p - q_i(GC_{pi})$

   GUST EFFECT FACTOR, G = 0.85
   EXTERNAL PRESSURE COEFFICIENT, C_p = [FIG. 27.4-1 THRU 27.4-3]
   INTERNAL PRESSURE COEFFICIENT, (GC_{pi}) = TABLE 26.11-1

   B. COMPONENTS & CLADDING (ASCE 7-16, CH. 30)

   $q_h = 0.00256\ K_z\ K_{zt}\ K_d\ V_{ULT}^2 = 26.5$ PSF

   $P = q_h\ [(GC_p) - (GC_{pi})]$

   GUST EFFECT FACTOR, G = 0.85
   EXTERNAL PRESSURE COEFFICIENT, (G_{Cp}) = [FIG. 30.4-1 THRU 30.4-7]
   INTERNAL PRESSURE COEFFICIENT, (GC_{pi}) = TABLE 26.11-1

3. EARTHQUAKE LOADS

   SEISMIC DESIGN CRITERIA

   S_S = 1.191
   S_1 = 0.422
   SITE CLASS: C
   F_a = 1.2
   F_v = 1.50
   S_{DS} = 0.953
   S_{D1} = 0.422
   RISK CATEGORY: III
   SEISMIC DESIGN CATEGORY: D

   SEISMIC DESIGN REQUIREMENTS

   DESIGN BASE SHEAR $V = C_SW$
   WHERE $C_S = S_{DS}/(R/I_e)$
   BUT SHALL NOT BE LESS THAN $C_S = 0.044S_{DS}I_e > 0.01$
   BUT NEED NOT EXCEED $C_S = S_{D1}/[T(R/I_e)]$

BUILDING	R	Ω_0	T	I_e	C_S	PRIMARY LATERAL FORCE RESISTING SYSTEM	ANALYSIS PROCEDURE	STRUCT. IRREG.	LOC. OF BASE
A	6.5 1.25	3.0 1.25			0.147 0.762	(1) (2)	(A)		T.O.F.
C	6.5	3.0			0.147	(1)	(A)		T.O.F.
M	6.5 1.25 3.25	3.0 1.25 2			0.147 0.762 0.293	(1) (2) (3)	(A)		T.O.F.

(1) LIGHT-FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR (ASCE 7-10, TABLE 12.2-1, ITEM A.15.)

(2) STEEL ORDINARY CANTILEVER COLUMN SYSTEMS (ASCE 7-10, TABLE 12.2-1, ITEM G.2.)

(3) STEEL ORDINARY CONCENTRICALLY BRACED FRAME (ASCE 7-10, TABLE 12.2-1, ITEM B.3.)

(A) EQUIVALENT LATERAL FORCE PROCEDURE

(H2) TYPE 2 - REENTRANT CORNER IRREGULARITY

DIMENSIONS

1. DIMENSIONS SHALL BE DEFINED TO INCLUDE BOTH HORIZONTAL DIMENSIONS AND VERTICAL DIMENSIONS (ELEVATIONS).
2. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.
3. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT NOTED ON STRUCTURAL DRAWINGS.
4. SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS FOR FINISH FLOOR ELEVATIONS.
5. SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND/OR ROOF ELEVATIONS.
6. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.

EXISTING CONDITIONS

1. ALL INFORMATION SHOWN ON THE PLANS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE FROM PLANS SUPPLIED BY THE OWNER, BUT WITHOUT GUARANTEE OF ACCURACY.
2. WHERE ACTUAL CONDITIONS ARE NOT IN ACCORDANCE WITH THE INFORMATION PRESENTED, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY. NO MODIFICATIONS OF THE PLANS FOR NEW CONSTRUCTION SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

EXISTING UNDERGROUND UTILITIES

1. THE ARCHITECT AND ENGINEERS ARE NOT RESPONSIBLE FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS. THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS, IF ANY, IS APPROXIMATE. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THE SITE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD ANY SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.

DEMOLITION

1. ALL DEMOLITION SHALL BE CARRIED ON IN SUCH A WAY AS NOT TO DAMAGE EXISTING ELEMENTS, WHICH ARE TO REMAIN IN THE FINISHED STRUCTURE.
2. ALL ELEMENTS OF THE STRUCTURE, WHICH ARE TO REMAIN, AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDITIONAL COST. EXISTING ELEMENTS SHALL BE PROTECTED TO THE FULLEST EXTENT POSSIBLE, IN ORDER TO MITIGATE DAMAGE.
3. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ALL EXISTING ELEMENTS THAT ARE NECESSARY FOR THE INSTALLATION OF ALL NEW WORK.
4. DO NOT CORE OR CUT NEW OPENINGS IN EXISTING CONCRETE OR MASONRY WITHOUT SPECIFIC APPROVAL OF THE STRUCUTRAL ENGINEER. SUBMIT DIMENSIONED LAYOUT OF ALL PROPOSED NEW OPENINGS TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CORING OR CUTTING OPENINGS. CONTRACTOR, AT HIS OWN EXPENSE, SHALL USE NON-DESTRUCTIVE METHODS TO LOCATE EXISTING REINFORCING. EXISTING REINFORCING SHALL NOT BE CUT WITHOUT SPECIFIC APPROVAL OF THE STRUCTURAL ENGINEER.

FOUNDATION

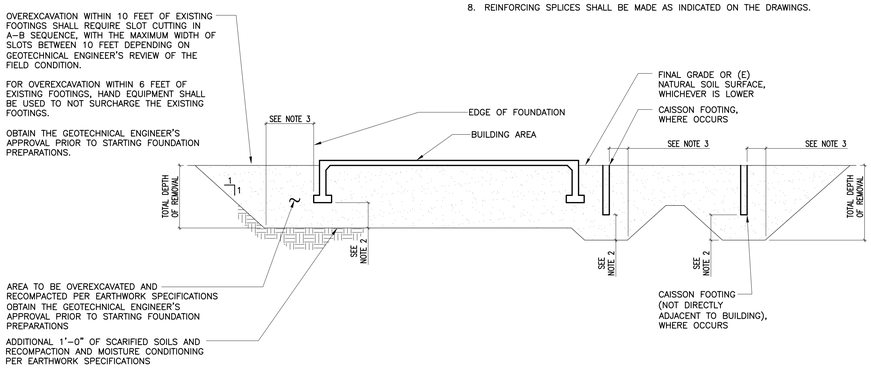
1. ALL PORTIONS OF WORK PERTAINING TO EXCAVATIONS, FOUNDATIONS AND RETAINING WALLS SHALL CONFORM TO TITLE 24, PART 2, CHAPTER 18A.
2. THE FOUNDATION DESIGN IS BASED ON A GEOTECHNICAL REPORT BY:

   NOVA SERVICES INC.
   NOVA PROJECT #2019129
   FILE NO.: S-14142
   DATED: SEPT. 30, 2019

3. AN ALLOWABLE SOIL BEARING PRESSURE OF 2500 PSF WAS USED FOR DESIGN AT R4 MINIMUM EMBEDMENT BELOW LOWEST ADJACENT GRADE WITH AN ALLOWABLE INCREASE OF 500 PSF FOR EVERY 12" INC. IN EMBEDMENT DEPTH UP TO A MAX. OF 3500 PSF. THIS VALUE MAY BE INC. BY ONE-THIRD FOR TRANSIENT LOADS SUCH AS WIND AND SEISMIC AND BEAR ON APPROVED NATURAL GRADE OR COMPACTED FILL.
4. SEE SPECIFICATIONS FOR EARTHWORK OPERATIONS.
5. THE CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE.
6. THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, APPROVALS, PERMITS, INSTALLATION AND MONITORING OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY RETAIN TEMPORARY EXCAVATIONS.
7. EXCAVATIONS FOR FOOTINGS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE AND REINFORCING. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER WHEN EXCAVATIONS ARE READY FOR INSPECTION. THE GEOTECHNICAL ENGINEER SHALL SUBMIT A LETTER OF COMPLIANCE TO THE OWNER.
8. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE HAS ATTAINED FULL DESIGN STRENGTH. THE CONTRACTOR SHALL BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL DESIGN STRENGTH. THE CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION AND REMOVAL OF SUCH BRACING.
9. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS, TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER. FLOODING WILL NOT BE PERMITTED.
10. ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH NEW CONSTRUCTION, SHALL BE REMOVED.
11. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD ANY BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC., BE FOUND.

CAISSONS (FLAG POLE TYPE FOOTINGS)

1. SEE FOUNDATION NOTES FOR ADDITIONAL INFORMATION.
2. DO NOT ALLOW SHAFTS TO REMAIN OPEN OVERNIGHT. FILL SHAFTS WITH CONCRETE IMMEDIATELY AFTER INSPECTION AND APPROVAL BY THE GEOTECHNICAL ENGINEER.
3. WHERE REQUIRED, PROVIDE FULL-LENGTH WATERTIGHT STEEL CASING OF SUFFICIENT THICKNESS TO WITHSTAND COMPRESSIVE DISPLACEMENT AND WITHDRAWAL STRESSES AND TO MAINTAIN SHAFT WALLS. TEMPORARY CASING SHALL BE WITHDRAWN AS CONCRETE IS PLACED. MAINTAIN A HEAD OF CONCRETE APPROXIMATELY 5 FEET ABOVE CASING BOTTOM.
4. KEEP EXCAVATIONS FREE OF WATER BEFORE PLACING CONCRETE.
5. REINFORCING CAGES IN SHAFTS ARE TO BE ONE CONTINUOUS UNIT. PLACE REINFORCEMENT ACCURATELY IN HOLE AND BRACE SECURELY IN POSITION DURING CONCRETE PLACEMENT.
6. USE PLYWOOD PROTECTION SHEETS WITH CUT OUTS TO RECEIVE CONCRETE AT EXCAVATION OPENINGS. EXTEND PLYWOOD AT LEAST 12" BEYOND EDGE.
7. USE ELEPHANT TRUNK, TREMIE, ETC., TO PLACE CONCRETE SO THAT FREE FALL DOES NOT EXCEED 5 FEET. PROVIDE MECHANICAL VIBRATION FOR FULL HEIGHT OF SHAFT TO CONSOLIDATE CONCRETE. PLACE CONCRETE IN EACH SHAFT IN ONE CONTINUOUS OPERATION. INTERRUPTED PLACING OPERATIONS OF OVER ONE-HOUR DURATION WILL REQUIRE A COLD JOINT INSTALLATION AND MUST BE APPROVED BY THE STRUCTURAL ENGINEER.



SCHEMATIC DIAGRAM OF FOUNDATION PREPARATION

NOTE:
1. SEE SPECIFICATIONS FOR EARTHWORK OPERATIONS.
2. 2'-0" MIN. BELOW BOTTOM OF FOOTING.
3. EQUAL TO "TOTAL DEPTH OF REMOVAL" OR 5'-0", MIN. WHICHEVER DISTANCE IS GREATER.

CONCRETE

1. ALL PORTIONS OF WORK PERTAINING TO CONCRETE CONSTRUCTION SHALL CONFORM TO TITLE 24, PART 2, CHAPTER 19A.
2. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY. MIX DESIGNS SHALL CONFORM TO ACI 318, SEC. 26.4, CBC SEC.1903A AND 1904A. MIX DESIGNS SHALL INCORPORATE THE FOLLOWING CRITERIA:
   - MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE. MAXIMUM OF 7 SACKS OF CEMENT PER YARD OF CONCRETE.
   - MAXIMUM WATER/CEMENT RATIO (BY WEIGHT) OF CONCRETE IN CONTACT WITH SOIL SHALL BE 0.45.
   - MAXIMUM SLUMP SHALL NOT EXCEED 3" ± 1" FOR FOOTINGS, SLABS ON GRADE, AND MASS CONCRETE; AND 4" ± 1" FOR OTHER CONCRETE. SLUMP LIMITATIONS NOTED SHALL APPLY TO CONCRETE MIX PRIOR TO THE ADDITION OF ANY WATER-REDUCING ADMIXTURES OR SUPER-PLASTICIZERS. MAXIMUM SLUMP MAY BE INCREASED TO 5 +/- 1" FOR MIX INCLUDING WATER-REDUCING ADMIXTURES OR SUPER-PLASTICIZERS.
   - CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CHLORIDE(S) SHALL NOT BE USED.
3. SCHEDULE OF STRUCTURAL CONCRETE 28 DAY MINIMUM STRENGTHS AND TYPES:
   - FOOTINGS, CAISSONS, GRADE BEAMS 145 PCF, f'c = 4,500 PSI
   - SLABS ON GRADE (NOTE: 2,500 PSI USED FOR DESIGN) 145 PCF, f'c = 4,500 PSI
   - ELSEWHERE UNLESS NOTED 145 PCF, f'c = 4,500 PSI
4. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II. CEMENT USED FOR CONCRETE IN CONTACT WITH SOIL SHALL CONFORM TO ASTM C-150, TYPE V.
5. AGGREGATE FOR NORMALWEIGHT CONCRETE SHALL CONFORM TO ASTM C-33. COMBINED AGGREGATE GRADATION OF ⅜" MAXIMUM (PEA GRAVEL) SHALL NOT BE USED.
6. READY MIXED CONCRETE SHALL CONFORM TO ASTM C-94.
7. PLACEMENT OF CONCRETE SHALL CONFORM TO ACI 304. CLEAN AND ROUGHEN TO ¼" AMPLITUDE ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED.
8. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING CONCRETE.
9. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED EXCEPT AS SHOWN. NOTIFY THE STRUCTURAL ENGINEER, IN ADVANCE, OF CONDITIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
10. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

    CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ..... 3"

    CONCRETE EXPOSED TO EARTH OR WEATHER:
    #6 THROUGH #18 BARS ..... 2"
    #5 BARS, W31 OR D31 WIRE, AND SMALLER ..... 1½"

    CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
    SLABS, WALLS, JOISTS:
    #14 AND #18 BARS ..... 1½"
    #11 BAR AND SMALLER ..... ¾"
    BEAMS, COLUMNS:
    PRIMARY REINFORCEMENT STIRRUPS, TIES, SPIRALS ..... 1½"
11. CONDUITS OR PIPES SHALL NOT BE EMBEDDED WITHIN A SLAB, WALL, BEAM, OR COLUMN, UNLESS SPECIFICALLY DETAILED.
12. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL MOLDS, GROOVES, REVEALS, ORNAMENTS AND GROUNDS TO BE CAST IN CONCRETE.
13. DRYPACK WHERE NOTED ON DRAWINGS SHALL CONSIST OF 1 PART PORTLAND CEMENT AND 2½ PARTS OF FINE AGGREGATE CONFORMING TO ASTM C-33 WITH ENOUGH WATER TO FORM A BALL WHEN SQUEEZED IN THE HAND. THE SPACE BETWEEN TWO SURFACES REQUIRING DRYPACK SHALL BE PACKED WITH THE DRYPACK MATERIAL BY TAMPING OR RAMMING WITH A BAR OR ROD UNTIL THE VOIDS ARE COMPLETELY FILLED.
14. NON-SHRINK GROUT WHERE NOTED ON DRAWINGS SHALL BE A PRE-MIXED COMPOUND CONSISTING OF NON-METALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING ADDITIVES, CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 8,000 PSI AT 28 DAYS. WHERE APPLICATION THICKNESS EXCEEDS MANUFACTURER'S LIMITATIONS, EXTEND WITH ⅜" (GRAVEL) AGGREGATE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
15. CONCRETE FOR SLAB ON GRADE DOES NOT REQUIRE BATCH PLANT INSPECTION. A MINIMUM OF ONE SET OF CYLINDERS SHALL BE TAKEN AND TESTED FOR EACH 50 CUBIC YARDS OF CONCRETE OR FRACTION THEREOF.

REINFORCING STEEL

1. ALL PORTIONS OF WORK PERTAINING TO FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL CONFORM TO TITLE 24, PART 2, CHAPTER 19A.
2. REINFORCING BARS SHALL CONFORM TO ASTM A-615 GRADE 60, EXCEPT #3 BARS MAY BE GRADE 40. REINFORCING BARS THAT ARE TO BE WELDED SHALL CONFORM TO ASTM A-706, GRADE 60.
3. WELDING OF REINFORCEMENT SHALL BE

STRUCTURAL STEEL AND MISCELLANEOUS METAL

1. ALL PORTIONS OF WORK PERTAINING TO STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO TITLE 24, PART 2, CHAPTER 22A.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A–992, UNLESS NOTED OTHERWISE.
3. ROUND HOLLOW STRUCTURAL SECTION (HSS) SHALL CONFORM TO ASTM A–500, GRADE B.
4. SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A–500, GRADE B.
5. CHANNELS, ANGLES AND PLATES SHALL CONFORM TO ASTM A–36, UNLESS NOTED OTHERWISE.
6. ALL BOLTS SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE:
   - ANCHOR BOLTS: ASTM F1554, GRADE 36
   - TYPICAL STEEL CONNECTIONS: ASTM A–325N OR F1852PT (NON–SLIP–CRITICAL)
   - DRAG CONNECTIONS: ASTM A–325SC OR F1852PT (SLIP–CRITICAL)
   - MISCELLANEOUS CONNECTIONS NOT NOTED OTHERWISE: ASTM A–307
7. HIGH STRENGTH BOLTS SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE:
   - JOINT ASSEMBLIES USING HIGH–STRENGTH BOLTS SHALL BE IN ACCORDANCE WITH SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR F1852PT TWIST OFF TYPE BOLTS, BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
   - ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A325 OR F1852PT TWIST OFF TYPE, NUTS SHALL CONFORM TO ASTM A–563, AND WASHERS SHALL CONFORM TO ASTM F–436.
   - PAINT SHALL NOT BE PERMITTED ON CONTACT SURFACES UNLESS NOTED OTHERWISE. CONTACT SURFACES OF BOLTED PARTS SHALL BE DESCALED AND FREE OF DIRT, OIL, BURRS, PITS, AND OTHER DEFECTS WHICH PREVENT SOLID SEATING OF PARTS.
   - ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION, UNLESS IDENTIFIED ON THE PLANS AS SLIP–CRITICAL.
   - SLIP–CRITICAL JOINT ASSEMBLIES SHALL BE FULLY PRE–TENSIONED BY TURN–OF–NUT TIGHTENING, CALIBRATED WRENCH TIGHTENING, INSTALLATION OF ALTERNATE DESIGN BOLTS OR BY DIRECT TENSION INDICATOR TIGHTENING.
8. ALL BOLTS CONNECTING STEEL FRAMING MEMBERS SHALL BE FULLY PRETENSIONED AND INSPECTED PER AISC.
9. STRUCTURAL STEEL IN SFRS LINES SHALL BE CONNECTED IN SLIP–CRITICAL JOINTS COMPLYING WITH AISC 341–10, SECTION D.2.2, CLASS A FAYING SURFACE.
10. ANCHOR BOLTS SHALL BE HEX HEADED. BENT BAR ANCHORS SHALL NOT BE USED.
11. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
12. ALL WELDING SHALL CONFORM TO THE STRUCTURAL WELDING CODE – STEEL, AWS D1.1 AND SUPPLEMENT AWS D1.8, BY THE AMERICAN WELDING SOCIETY. WELDING RODS SHALL BE E70XX.
13. THE FILLER METAL FOR ALL WELDING SHALL HAVE A NOTCH TOUGHNESS OF NOT LESS THAN 20 FT–LBS AT 0 DEGREES F, AS MEASURED BY A STANDARD CHARPY V–NOTCH TEST, ASTM E23, IN ACCORDANCE WITH THE APPLICABLE FILLER METAL SPECIFICATION REFERENCED IN AWS D1.1 AND SEISMIC SUPPLEMENT AWS D1.8.
14. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS.
15. ALL WELDS NOT SPECIFIED SHALL BE CONTINUOUS FILLET WELDS. SIZE OF WELDS SHALL BE BASED ON AWS D1.1 FOR THICKER PART JOINED.
16. BOLT HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, UNLESS NOTED OTHERWISE. BOLT HOLES AT COLUMN BASEPLATES MAY BE 3/16" MAXIMUM LARGER IN DIAMETER THAN NOMINAL SIZE OF ANCHOR BOLT USED, UNLESS NOTED OTHERWISE.
17. DO NOT PAINT STRUCTURAL STEEL SURFACES THAT ARE TO RECEIVE SPRAY–APPLIED FIREPROOFING OR TO BE ENCASED IN CONCRETE OR MASONRY.
18. ALL STRUCTURAL STEEL AND MISCELLANEOUS METAL ITEMS, INCLUDING CONNECTORS, EXPOSED TO THE WEATHER SHALL BE HOT–DIPPED GALVANIZED, AFTER FABRICATION.
19. STRUCTURAL STEEL SHALL BE DELIVERED TO THE JOB SITE FREE OF EXCESSIVE RUST, MILL SCALE, GREASE, ETC.
20. OPENINGS SHALL NOT BE PLACED IN STEEL MEMBERS UNLESS SPECIFICALLY DETAILED.

WOOD

1. ALL PORTIONS OF WORK PERTAINING TO WOOD CONSTRUCTION SHALL CONFORM TO TITLE 24, PART 2, CHAPTER 23, INCLUDING ADDITIONAL REQUIREMENTS AND EXCEPTIONS, AS APPLICABLE.
2. LUMBER SHALL BE GRADED IN ACCORDANCE WITH THE STANDARD GRADING RULES NO. 17 OF THE WEST COAST LUMBER INSPECTION BUREAU, OR THE STANDARD GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION.
3. DIMENSION LUMBER SHALL BE DOUGLAS FIR–LARCH, NO. 1 AND BETTER GRADE, UNLESS NOTED OTHERWISE. TIMBERS SHALL BE DOUGLAS FIR LARCH, NO. 1 GRADE, UNLESS NOTED OTHERWISE. MOISTURE CONTENT AT TIME OF INSTALLATION SHALL BE 19% OR LESS.
4. ALL PLYWOOD SHALL BE STRUCTURAL 1 AND COMPLY WITH PRODUCT STANDARD PS–1. USE PLYWOOD NAILS SAME GAUGE AS COMMON WIRE NAILS WITH LENGTHS AT LEAST EQUAL TO PLYWOOD THICKNESS PLUS REQUIRED PENETRATION IN ACCORDANCE WITH SECTIONS 2306.2 (AWC SDPWS TABLE 4.2A) OR 2306.3 (AWC SDPWS TABLE 4.3A), AS APPLICABLE.
5. EXPOSED MEMBERS SHALL BE SELECT STRUCTURAL GRADE, FREE OF HEART CENTER (WHERE SIZE PERMITS), AND SELECTED FOR APPEARANCE AND STRAIGHTNESS.
6. BOLT HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER DIAMETER THAN NOMINAL SIZE OF BOLT USED. RETIGHTEN ALL NUTS PRIOR TO CLOSING IN.
7. STANDARD CUT WASHERS SHALL BE USED UNDER BOLT HEADS AND NUTS AGAINST WOOD. USE HEAVY PLATE OR MALLEABLE IRON WASHERS WHERE NOTED.
8. DO NOT BORE OR NOTCH MEMBERS, EXCEPT WHERE SHOWN IN DETAILS. OBTAIN ENFORCEMENT AGENCY AND STRUCTURAL ENGINEER'S APPROVAL FOR ANY HOLES OR NOTCHES NOT DETAILED.
9. METAL CONNECTORS FOR WOOD CONSTRUCTION SHALL BE SIMPSON "STRONG–TIE", KC METALS, OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. PRODUCT CALLOUT ON PLANS REFERS TO SIMPSON "STRONG TIE" MODEL NUMBER AND KC METALS PRODUCT REFERENCE NUMBER. FILL ALL ROUND AND TRIANGLE HOLES WITH THE SPECIFIED NAILS. APPROVED EQUALS MAY ONLY BE USED WITH PRIOR APPROVAL FROM ENFORCEMENT AGENCY AND THE STRUCTURAL ENGINEER.
10. ALL SILL PLATES WHICH REST ON FOUNDATION OR SLAB ON GRADE SHALL BE PRESERVATIVE–TREATED IN ACCORDANCE WITH SEC. 2303.1.9, AND SHALL BEAR THE QUALITY MARK OF AN APPROVED INSPECTION AGENCY THAT MAINTAINS CONTINUING SUPERVISION, TESTING AND INSPECTION OVER THE QUALITY OF PRESERVATIVE–TREATED WOOD. CUTS AND HOLES SHALL BE RETREATED.
11. JOISTS MORE THAN 8–INCH DEPTH SHALL BE CONTINUOUSLY BRIDGED BY SOLID BLOCKING, 2 INCHES THICK AND THE FULL DEPTH OF THE JOIST, SPACED AT 8 FEET ON CENTER.
12. ALL NAILING SHALL CONFORM TO TABLE 2304.10.1 – FASTENING SCHEDULE, USING COMMON WIRE NAILS. PREDRILL ALL NAILS 20D AND LARGER AND WHERE REQUIRED TO PREVENT SPLITTING. FASTENERS IN CONTACT WITH PRESERVATIVE–TREATED WOOD SHALL BE OF HOT–DIPPED ZINC–COATED GALVANIZED STEEL.
13. LAG BOLTS SHALL HAVE LEAD HOLES BORED BEFORE INSTALLING. HOLE DIAMETERS SHALL BE AS FOLLOWS:

    A. SHANK PORTION — SAME DIAMETER AND LENGTH OF SHANK

    B. THREAD PORTION — 0.40 TO 0.70 DIAMETER OF THREAD AND SAME LENGTH

GLUED LAMINATED WOOD

1. SEE WOOD NOTES FOR ADDITIONAL INFORMATION.
2. GLUED LAMINATED WOOD MEMBERS SHALL BE FABRICATED IN ACCORDANCE WITH ANSI/AITC A190.1 AND ASTM D–3737.
3. BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F–V8 DF/DF, DRY SERVICE CONDITIONS. SIMPLE SPAN BEAMS MAY BE DOUGLAS FIR COMBINATION 24F–V4 DF/DF, DRY SERVICE CONDITIONS. ALL HEARTWOOD ALASKAN YELLOW CEDAR, COMBINATION 20F–V12 AC/AC, WET SERVICE CONDITIONS, SHALL BE USED FOR EXTERIOR EXPOSED MEMBERS. EXTERIOR TYPE ADHESIVES SHALL BE USED IN ALL CASES.
4. BEAMS SHALL BE ARCHITECTURAL APPEARANCE GRADE WHERE EXPOSED, AND FRAMING APPEARANCE GRADE ELSEWHERE.
5. ALL LAMINATIONS FOR GLUED LAMINATED BEAMS SHALL BE 2" NOMINAL THICKNESS AND OF THE WIDTH SHOWN OR NOTED. ALL LAMINATIONS SHALL BE PARALLEL TO THE BOTTOM EDGE OF THE BEAM, EXCEPT AS NOTED.
6. THE MAXIMUM MOISTURE CONTENT AT THE TIME OF GLUING SHALL NOT EXCEED 16 PERCENT. THE RANGE OF MOISTURE CONTENT OF LAMINATIONS ASSEMBLED INTO A SINGLE MEMBER SHALL NOT EXCEED 5 PERCENT AT THE TIME OF GLUING.
7. ALL GLUED LAMINATED TIMBER SHALL BE CONTINUOUSLY INSPECTED DURING FABRICATION BY A SPECIAL INSPECTOR SPECIFICALLY APPROVED BY THE ENFORCEMENT AGENCY FOR THAT PURPOSE. AN AITC CERTIFICATE WILL NOT MEET THIS REQUIREMENT. SPECIAL INSPECTION IS NOT REQUIRED FOR NONCUSTOM MEMBERS 5⅛" MAXIMUM WIDTH AND 18" MAXIMUM DEPTH, AND WITH A MAXIMUM CLEAR SPAN OF 32 FEET, MANUFACTURED AND MARKED IN ACCORDANCE WITH ANSI/AITC A190.1, SECTION 13.1.1 FOR NONCUSTOM MEMBERS.
8. WRAP AND PROTECT MEMBERS IN ACCORDANCE WITH AITC 111. BUNDLE WRAP CONCEALED BEAMS. INDIVIDUALLY WRAP BEAMS THAT WILL BE EXPOSED TO VIEW. LEAVE INDIVIDUAL WRAPPING IN PLACE UNTIL FINISHING OCCURS.
9. MEMBERS SHALL NOT BE DRAGGED OR DROPPED. CARE SHALL BE TAKEN IN HANDLING TO PREVENT DAMAGE TO FINISHED SURFACE.
10. NOTCHING OR BORING OF GLUED LAMINATED BEAMS SHALL NOT BE ALLOWED UNLESS SPECIFICALLY DETAILED.

WOOD I-JOISTS

1. SEE WOOD NOTES FOR ADDITIONAL INFORMATION.
2. WOOD I–JOISTS SHALL BE MANUFACTURED BY REDBUILT OR APPROVED EQUAL.
3. JOISTS BY MANUFACTURERS OTHER THAN THOSE SPECIFIED SHALL BE SUBMITTED AS A SUBSTITUTION, AND ARE SUBJECT TO THE REVIEW AND APPROVAL OF THE ENFORCEMENT AGENCY, THE ARCHITECT, AND THE STRUCTURAL ENGINEER. JOISTS SHALL BE SUPPLIED BY ONE MANUFACTURER. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. JOISTS SUBMITTED AS A SUBSTITUTION SHALL RECEIVE APPROVAL TO BID FROM ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO BID. JOISTS SUBMITTED AS A SUBSTITUTION SHALL MEET THE FOLLOWING CRITERIA:

   MANUFACTURER SHALL HAVE A MINIMUM OF 5 YEARS DOCUMENTED EXPERIENCE MANUFACTURING AND DELIVERING SPECIFIED PRODUCTS TO PROJECTS OF SIMILAR SIZE AND SCOPE IN CALIFORNIA

   MANUFACTURER SHALL HAVE A CURRENT ICC EVALUATION REPORT

   PRODUCTS SHALL BE FABRICATED IN A FACILITY CURRENTLY LICENSED BY THE LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY.
5. BLOCKING, BRIDGING, STIFFENERS, FILLERS AND BACKER BLOCKS SHALL BE INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S STANDARDS, AND AS DETAILED.
6. SIZE, SPACING, AND LOCATION OF HOLES IN WEBS OF JOISTS SHALL BE IN CONFORMANCE WITH THE MANUFACTURER'S STANDARDS.
7. DO NOT CUT, DRILL, OR NOTCH CHORDS.
8. JOISTS SHALL BE CONTINUOUSLY BRIDGED AT MID–SPAN. PROVIDE ADDITIONAL BRIDGING AT 16 FEET ON CENTER WHEN JOIST SPAN EXCEEDS 32 FEET.
9. MULTIPLE JOIST ASSEMBLIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH MANUFACTURER'S STANDARDS.
10. SHOP DRAWINGS AND CALCULATIONS PREPARED BY THE MANUFACTURER SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. DRAWINGS AND CALCULATIONS SHALL BEAR THE SIGNATURE OF A CIVIL OR STRUCTURAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA.
11. DESIGN LOADS:

	DEAD LOAD	LIVE LOAD	PARTITION
ROOF	21 PSF	20 PSF	NOT APPLICABLE

    A. LIVE LOAD REDUCTION PERMITTED WHEN APPLICABLE

12. DEFLECTION CRITERIA:

	LIVE LOADS	TOTAL LOAD
ROOF MEMBER SUPPORTING PLASTER	L/360	L/240
ROOF MEMBER NOT SUPPORTING PLASTER	L/240	L/180

MACHINE APPLIED NAILING

1. THE USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION AND THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE ENFORCEMENT AGENCY. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER, OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY AND SHALL BE DISCONTINUED.

STRUCTURAL COMPOSITE LUMBER

1. SEE WOOD NOTES FOR ADDITIONAL INFORMATION.
2. ALL STRUCTURAL COMPOSITE LUMBER SHALL BE MANUFACTURED BY REDBUILT IN ACCORDANCE WITH ICC NO. ESR–1387.
3. COMPOSITE LUMBER OTHER THAN THAT SPECIFIED SHALL BE SUBMITTED AS A SUBSTITUTION, AND IS SUBJECT TO THE REVIEW AND APPROVAL OF THE ENFORCEMENT AGENCY, THE ARCHITECT, AND THE STRUCTURAL ENGINEER.
4. MICROLAM LVL SHALL BE MANUFACTURED FROM VENEERS OF A SINGLE WOOD SPECIES, OR SPECIES COMBINATIONS, AND ADHESIVES MEETING THE REQUIREMENTS SPECIFIED IN THE APPROVED QUALITY CONTROL MANUAL AND MANUFACTURING STANDARD PREPARED BY THE MANUFACTURER.
5. PARALLAM PSL SHALL BE MANUFACTURED FROM STRANDS OF A SINGLE WOOD SPECIES, OR SPECIES COMBINATIONS, THAT ARE ORIENTED PARALLEL TO THE LENGTH OF THE MEMBER AND COATED WITH A PHENOL–FORMALDEHYDE ADHESIVE.
6. TIMBERSTRAND LSL SHALL BE MANUFACTURED FROM STRANDS OF A SINGLE WOOD SPECIES, OR A COMBINATION OF WOOD SPECIES, BLENDED WITH AN ISOCYANATE–BASED ADHESIVE.

POST-INSTALLED ANCHORS

1. ACCEPTABLE EQUIVALENT MANUFACTURERS OF POST–INSTALLED EXPANSION ANCHORS AND SCREW ANCHORS SHALL BE HILTI INC., SIMPSON STRONG–TIE COMPANY INC., OR DEWALT, UNO.
2. TESTS FOR POST–INSTALLED ANCHORS IN HARDENED CONCRETE SHALL CONFORM TO TITLE 24, PART 2, CHAPTER 19A, SECTION 1910A.5.
3. POST–INSTALLED ANCHOR INSTALLATION SHALL BE INSPECTED BY A SPECIAL INSPECTOR SPECIFICALLY APPROVED BY THE ENFORCEMENT AGENCY FOR THAT PURPOSE.
4. POST–INSTALLED ANCHOR TESTING SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR.
5. TEST QUANTITY OF POST–INSTALLED ANCHORS AS NOTED BELOW:

APPLICATION	QUANTITY
SILL PLATES	10% OF BOLTS
STRUCTURAL	100% OF BOLTS
NON–STRUCTURAL (EQUIP. ANCHORAGE, ETC.)	50% OF BOLTS

6. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME INITIAL TESTING FREQUENCY.
7. TORQUE TESTING SHALL BE APPLIED BY CALIBRATED WRENCH. TENSION TESTING (WHERE INDICATED) SHALL BE APPLIED BY HYDRAULIC JACK OR CALIBRATED SPRING LOADING DEVICE.
8. THE FOLLOWING CRITERIA SHALL APPLY FOR THE ACCEPTANCE OF INSTALLED POST–INSTALLED ANCHORS:

   A. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE ATTAINED WITHIN ONE–HALF (½) TURN OF THE NUT. SLEEVE ANCHORS ⅜ INCH DIAMETER OR LESS MUST ATTAIN THE SPECIFIED TEST TORQUE WITHIN ONE–QUARTER (¼) TURN OF THE NUT, AND THREADED ANCHORS MUST ATTAIN THE SPECIFIED TEST TORQUE WITHIN ONE–QUARTER (¼) TURN OF THE SCREW AFTER INITIAL SEATING OF THE SCREW HEAD.

   B. HYDRAULIC RAM METHOD: (FOR TENSION TESTING WHERE INDICATED) ANCHORS SHALL MAINTAIN THE TENSION TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNABLE MOVEMENT DURING THE TENSION TEST. (AN EXAMPLE OF DISCERNABLE MOVEMENT WOULD BE LOOSENING OF THE WASHER UNDER THE NUT).

8. TEST LOADS (1)(2)(3)

TORQUE TEST VALUES – EXPANSION ANCHORS NORMAL WEIGHT CONCRETE		
ANCHOR DIAMETER (INCH)	ANCHOR DEPTH (INCHES)	TORQUE (FT–LBF)
⅜	2	25
½	2	40
	3¼	40
⅝	3⅜	60
	4	60
¾	3¾	110
	4¾	110

(1) TEST VALUES ARE BASED ON KWIK BOLT TZ (KB–TZ) EXPANSION ANCHORS BY HILTI, INC. (ICC EVALUATION REPORT NUMBER ESR–1917).

(2) TEST VALUES ARE BASED ON CARBON STEEL ANCHORS.

(3) VERIFY TORQUE VALUES WITH MANUFACTURER FOR SIMPSON STRONG–BOLT 2 (ICC ESR–3037) OR DEWALT POWER–STUD+SD2 (ICC ESR–2502)

TORQUE TEST VALUES – EXPANSION ANCHORS GROUT–FILLED CMU		
ANCHOR DIAMETER (INCH)	ANCHOR DEPTH (INCHES)	TORQUE (FT–LBF)
⅜	2	15
½	2	25
	3¼	25
⅝	3⅜	35
	4	35
¾	3¾	70
	4¾	70

(1) TEST VALUES ARE BASED ON KWIK BOLT TZ (KB–TZ) EXPANSION ANCHORS BY HILTI, INC. (ICC EVALUATION REPORT NUMBER ESR–3785).

(2) TEST VALUES ARE BASED ON CARBON STEEL ANCHORS.

(3) VERIFY TORQUE VALUES WITH MANUFACTURER FOR SIMPSON WEDGE–ALL (ICC ESR–1396) OR DEWALT POWER–STUD+SD1 (ICC ESR–2966)

TORQUE TEST VALUES – SCREW ANCHORS NORMAL WEIGHT CONCRETE		
ANCHOR DIAMETER (INCH)	ANCHOR DEPTH (INCHES)	TORQUE (FT–LBF)
⅜	2¼	50
	3½	50
½	3¼	65
	4½	65
⅝	4½	100
	6	100
¾	6	150
	6¾	150

(1) TEST VALUES ARE BASED ON TITEN HD SCREW ANCHORS BY SIMPSON STRONG–TIE, (ICC EVALUATION REPORT NUMBER ESR–2713).

(3) VERIFY TORQUE VALUES WITH MANUFACTURER FOR HILTI HUS–EZ SCREW ANCHORS (ICC ESR–3027) OR DEWALT SCREW–BOLT+SCREW ANCHOR (ICC ESR–3889)

POWDER DRIVEN CONCRETE FASTENERS

1. THE USE OF POWDER DRIVEN FASTENERS FOR TENSION LOADS IS LIMITED TO SUPPORT OF MINOR LOADS, SUCH AS ACOUSTICAL CEILINGS, DUCTWORK, CONDUIT, ETC. POWDER DRIVEN CONCRETE FASTENERS MAY NOT BE USED IN CURBS.
2. ALLOWABLE TENSION LOADS SHALL BE LIMITED TO 90 POUNDS, OR 80% OF ICC APPROVED VALUES, WHICHEVER IS LESS. QUALIFICATION FOR USE OF ALL POWER ACTUATED TOOLS MUST MEET ANSI A10.3 STANDARD AS REQUIRED BY THE MANUFACTURER AND ALL OSHA REQUIREMENTS.
3. THE OPERATOR, TOOL, AND FASTENERS SHALL BE PREQUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST TEN FASTENER INSTALLATIONS. A "PULL–OUT" TEST LOAD OF 200 LBS. SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER, RANDOM TESTS, UNDER THE PROJECT INSPECTOR'S SUPERVISION, SHALL BE MADE OF APPROXIMATELY ONE IN TEN PINS. IF ANY PIN FAILS TESTING, TEST ALL PINS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.
4. FASTENERS SHALL HAVE ICC APPROVAL FOR THE TYPE OF CONCRETE INTO WHICH THE FASTENERS ARE INSTALLED.
5. POWDER DRIVEN CONCRETE FASTENERS ARE NOT PERMITTED IN PRESTRESSED CONCRETE MEMBERS.
6. WHEN INSTALLING DRILLED–IN ANCHORS AND/OR POWDER DRIVEN PINS IN NON–PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGE TO THE REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND DRILLED–IN ANCHOR AND/OR PIN.

ANCHORS AND/OR DOWELS INSTALLED WITH ADHESIVE

1. ANCHORS AND/OR DOWELS SHALL BE INSTALLED WITH ADHESIVE ONLY WHERE INDICATED ON DRAWINGS.
2. ANCHORS AND/OR DOWELS SHALL BE INSTALLED IN CONCRETE USING ONE OF THE FOLLOWING PRODUCTS IN ACCORDANCE WITH THE APPLICABLE ICC/IAPMO REPORT:
   - HILTI HIT–HY 200 ADHESIVE — ICC NO. ESR–3187
   - SIMPSON SET–XP ADHESIVE — ICC NO. ESR–2508
   - DEWALT PURE110+ ADHESIVE — ICC NO. ESR–3298
3. ANCHORS AND/OR DOWELS SHALL BE INSTALLED IN GROUTED MASONRY USING ONE OF THE FOLLOWING PRODUCTS IN ACCORDANCE WITH THE APPLICABLE ICC REPORT:
   - HILTI HIT–HY 200 ADHESIVE — ICC NO. ESR–3963
   - SIMPSON SET–XP ADHESIVE — IAPMO NO. ER–265
4. ADHESIVE SYSTEMS OTHER THAN THOSE SPECIFIED SHALL BE SUBMITTED AS A SUBSTITUTION, AND ARE SUBJECT TO THE REVIEW AND APPROVAL OF THE ENFORCEMENT AGENCY, THE ARCHITECT, AND THE STRUCTURAL ENGINEER.
5. HOLES SHALL BE DRILLED WITH NON–REBAR–CUTTING DRILL BITS.
6. HOLES SHALL BE CLEAN OF CONCRETE DUST AND DEBRIS USING A NYLON BRUSH AND OIL–FREE COMPRESSED AIR. HOLES SHALL ALSO BE FREE OF STANDING WATER.
7. PROJECT INSPECTOR SHALL VERIFY INSTALLATION OF ANCHORS OR DOWELS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, INCLUDING CLEANLINESS OF DRILL HOLES AND PROPER EMBEDMENT.
8. ANCHORS SET IN CONCRETE AND GROUTED MASONRY SHALL BE TESTED TO 2 TIMES THE ASD ALLOWABLE TENSION LOAD, 1.25 TIMES THE LRFD STRENGTH CAPACITY, OR 80% OF THE YIELD STRENGTH OF THE BOLT FOR THE SPECIFIC LOCATION OF THE ANCHOR TO BE TESTED, WHICHEVER IS LESS. TORQUE TESTING IS NOT PERMITTED. SEE DETAILS FOR TEST LOADS.
9. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION TO SUPPORT SUSTAINED TENSION LOADS SHALL BE DONE BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI/CRSI (ACI 318–14 17.8.2.2). PROOF OF CURENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION.
10. ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS.

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KNA JOB NO: 323.080

REGISTERED PROFESSIONAL ENGINEER — LARRY W. KAPPATEIN — No. 2795 Exp. 9-30-21 — STATE OF CALIFORNIA — STRUCTURAL

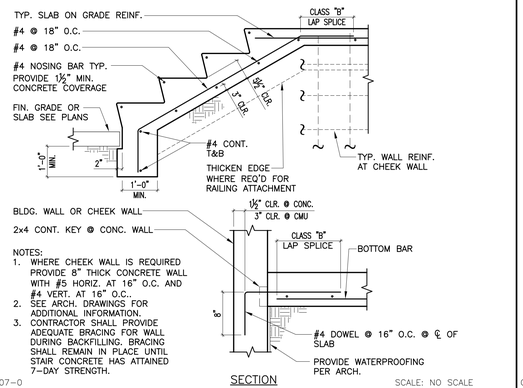
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GENERAL NOTES

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/20/2020

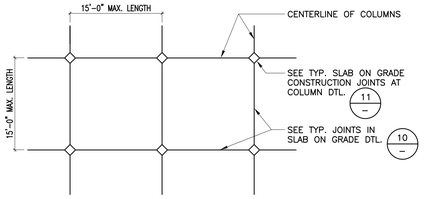
DRAWING
S0.2



NOTES:
1. WHERE CHEEK WALL IS REQUIRED PROVIDE 8" THICK CONCRETE WALL WITH #5 HORIZ. AT 16" O.C. AND #4 VERT. AT 16" O.C..
2. SEE ARCH. DRAWINGS FOR ADDITIONAL INFORMATION.
3. CONTRACTOR SHALL PROVIDE ADEQUATE BRACING FOR WALL DURING BACKFILLING. BRACING SHALL REMAIN IN PLACE UNTIL STAIR CONCRETE HAS ATTAINED 7-DAY STRENGTH.

C207-0 SCALE: NO SCALE

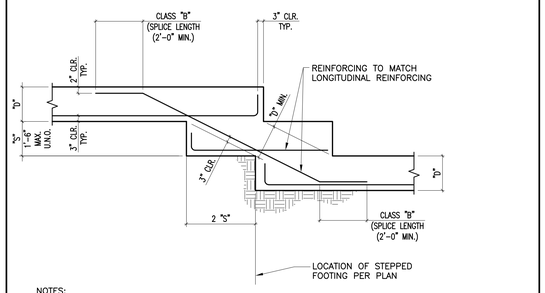
CONCRETE STAIR ON GRADE | 13



NOTES:
1. PANELS SHALL BE DIVIDED BY CONTROL JOINTS AND CONSTRUCTION JOINTS.
2. PROVIDE CONTROL JOINTS PERPENDICULAR TO CONSTRUCTION JOINTS.
3. IN AREAS WHERE COLUMNS DO NOT OCCUR PROVIDE CONSTRUCTION OR CONTROL JOINTS AT 15'-0" MAX.
4. BETWEEN 1:1 TO 2:1 PANEL SHALL NOT EXCEED 200 SQUARE FEET IN AREA.
5. SEE PLANS FOR LOCATIONS WHERE ADDITIONAL JOINTS MAY BE REQUIRED.
6. THE CONTRACTOR SHALL SUBMIT A PROPOSED LAYOUT OF JOINTS FOR APPROVAL PRIOR TO POURING SLABS.
7. PROVIDE JOINTS @ ALL RE-ENTRANT CORNERS IN SLAB CONSTRUCTION.

C201-0 SCALE: NO SCALE

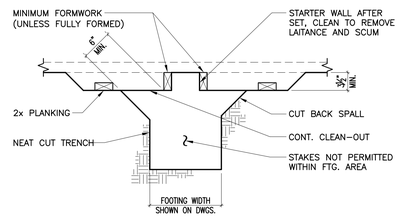
METHOD OF POURING S.O.G. | 9



NOTES:
1. FOR FOOTING REINFORCING SEE FOOTING ELEVATIONS AND/OR SECTIONS.
2. VERTICAL WALL DOWELS SHALL EXTEND TO BOTTOM OF FOOTING.

C108-0 SCALE: NO SCALE

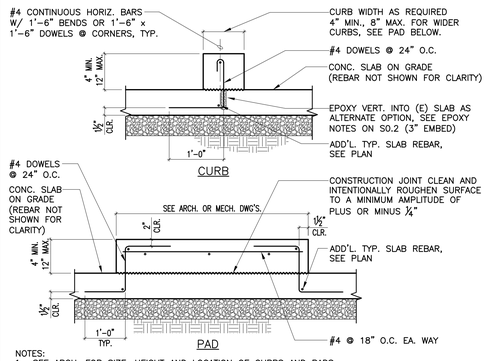
STEPPED FTG: ONE LAYER OF REINF. | 5



NOTES:
1. FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
2. FOOTING WIDTHS SHALL NOT BE MORE THAN 4" WIDER THAN SHOWN ON PLAN.
3. FORMWORK NOT PERMITTED BELOW GRADE UNLESS FULLY FORMED.

C101-0 SCALE: NO SCALE

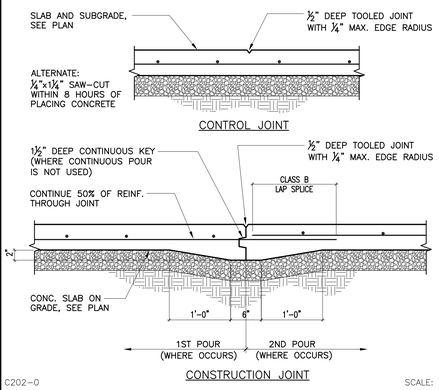
FOOTING POURED AGAINST EARTH | 1



NOTES:
1. SEE ARCH. FOR SIZE, HEIGHT AND LOCATION OF CURBS AND PADS.
2. PROVIDE INSERTS AS REQ'D BY ARCH & MECH. DRAWINGS.

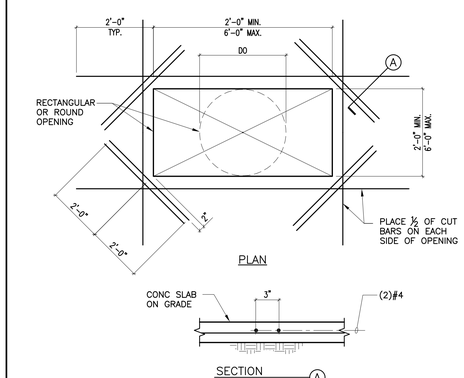
C208-0 SCALE: NO SCALE

CONCRETE CURB AND PADS | 14



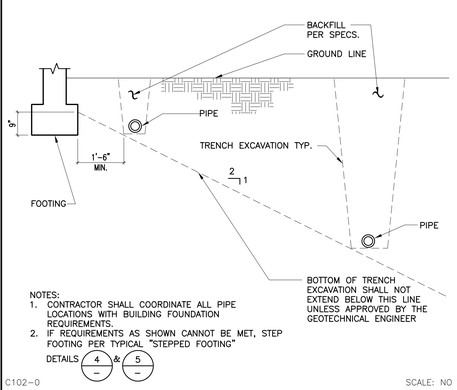
C202-0 SCALE: NO SCALE

JOINT IN SLAB ON GRADE | 10



C205-0 SCALE: NO SCALE

OPENING IN SLAB ON GRADE | 6



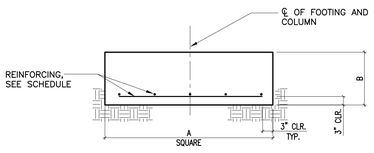
NOTES:
1. CONTRACTOR SHALL COORDINATE ALL PIPE LOCATIONS WITH BUILDING FOUNDATION REQUIREMENTS.
2. IF REQUIREMENTS AS SHOWN CANNOT BE MET, STEP FOOTING PER TYPICAL "STEPPED FOOTING"

DETAILS 4/— & 5/—

C102-0 SCALE: NO SCALE

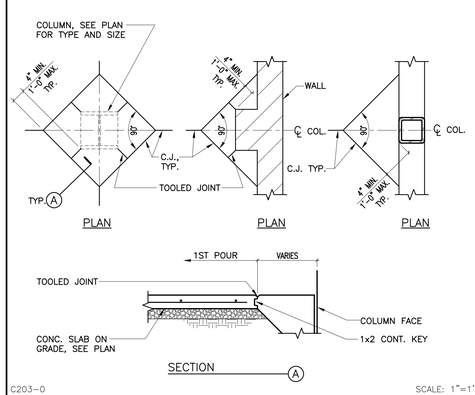
PIPES PARALLEL TO FOOTINGS | 2

PAD FOOTING SCHEDULE				
	A	B	REINF.	REMARKS
PF-3	3'-0"	2'-0"	(5)#5 EA. WAY	
PF-4	4'-0"	2'-0"	(7)#5 EA. WAY	
PF-5	5'-0"	2'-0"	(9)#5 EA. WAY	
PF-6	6'-0"	2'-0"	(10)#5 EA. WAY	



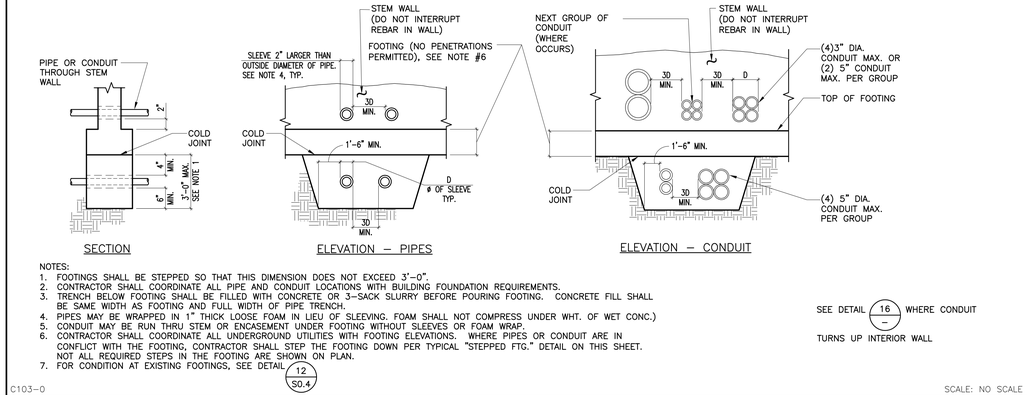
C107-0 SCALE: NO SCALE

PAD FOOTING SCHEDULE | 15



C203-0 SCALE: 1"=1'-0"

S.O.G. CONST. JOINTS AT COL. | 11

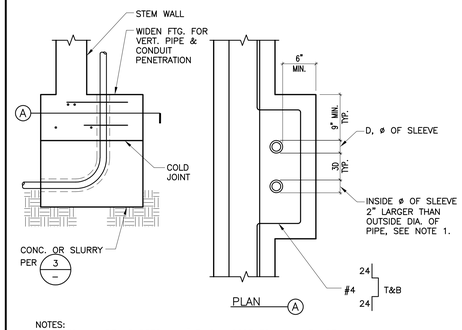


NOTES:
1. FOOTINGS SHALL BE STEPPED SO THAT THIS DIMENSION DOES NOT EXCEED 3'-0".
2. CONTRACTOR SHALL COORDINATE ALL PIPE AND CONDUIT LOCATIONS WITH BUILDING FOUNDATION REQUIREMENTS.
3. TRENCH BELOW FOOTING SHALL BE FILLED WITH CONCRETE OR 3-SACK SLURRY BEFORE POURING FOOTING. CONCRETE FILL SHALL BE SAME WIDTH AS FOOTING AND FULL WIDTH OF PIPE TRENCH.
4. PIPES MAY BE WRAPPED IN 1" THICK LOOSE FOAM IN LIEU OF SLEEVING. FOAM SHALL NOT COMPRESS UNDER WHT. OF WET CONC.)
5. CONDUIT MAY BE RUN THRU STEM OR ENCASEMENT UNDER FOOTING WITHOUT SLEEVES OR FOAM WRAP.
6. CONTRACTOR SHALL COORDINATE ALL UNDERGROUND UTILITIES WITH FOOTING ELEVATIONS. WHERE PIPES OR CONDUIT ARE IN CONFLICT WITH THE FOOTING, CONTRACTOR SHALL STEP THE FOOTING DOWN PER TYPICAL "STEPPED FTG." DETAIL ON THIS SHEET. NOT ALL REQUIRED STEPS IN THE FOOTING ARE SHOWN ON PLAN.
7. FOR CONDITION AT EXISTING FOOTINGS, SEE DETAIL 12/S0.4

SEE DETAIL 16/— WHERE CONDUIT TURNS UP INTERIOR WALL

C103-0 SCALE: NO SCALE

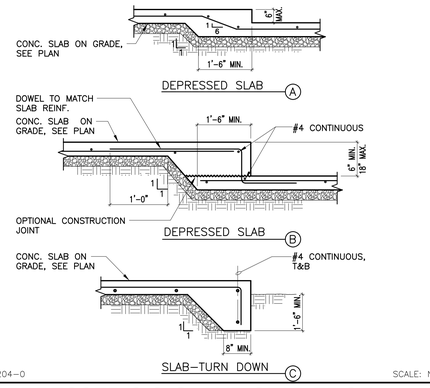
PIPES AND CONDUIT PERPENDICULAR TO FOOTINGS | 3



NOTES:
1. PIPES MAY BE WRAPPED IN 1" THICK LOOSE FOAM IN LIEU OF SLEEVING. (FOAM SHALL NOT COMPRESS UNDER WHT. OF WET CONC.)
2. CONDUIT MAY BE ROUTED UP THROUGH FOOTING WITHOUT SLEEVES OR FOAM WRAP.

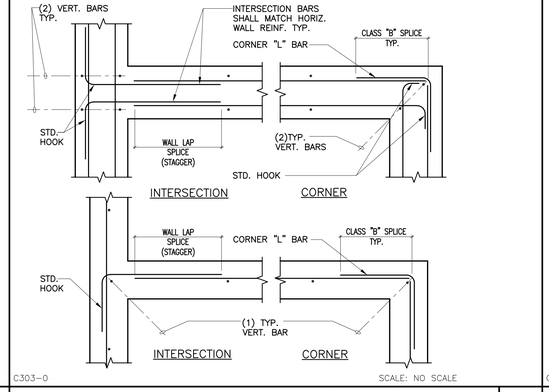
C109-0 SCALE: NO SCALE

TYP. VERT. PIPES OR COND. THRU FTG. | 16



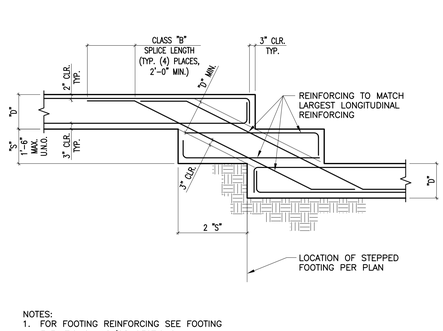
C204-0 SCALE: NO SCALE

DEPRESSED S.O.G. AND SLAB EDGE | 12



C303-0 SCALE: NO SCALE

REINF. AT FNDN. WALL INTERSECTION | 8



NOTES:
1. FOR FOOTING REINFORCING SEE FOOTING ELEVATIONS AND/OR SECTIONS.
2. VERTICAL WALL DOWELS SHALL EXTEND TO BOTTOM OF FOOTING.

C104-0 SCALE: NO SCALE

STEPPED FTG. TWO LAYERS OF REINF. | 4

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REGISTERED PROFESSIONAL ENGINEER KARIM R. KAPRIELIAN No. 2795 Exp. 9-30-21 STRUCTURAL STATE OF CALIFORNIA

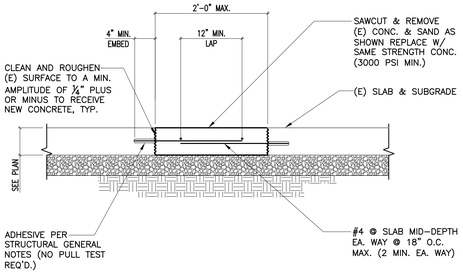
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TYPICAL
CONCRETE DETAILS

NO.	DATE	ISSUE

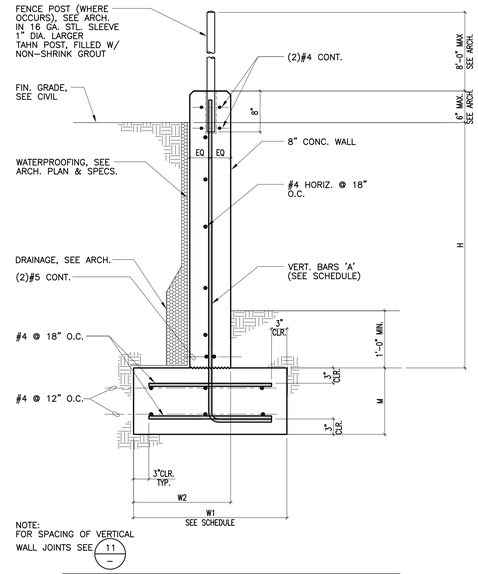
PROJECT NO: 19009
DATE: 02/20/2020

DRAWING
S0.3



C210-0 SCALE: NO SCALE

TYPICAL SLAB PATCH DETAIL | 13



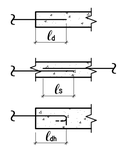
SCHEDULE				
H (FT.)	W1 (FT.)	W2 (FT.)	M (IN.)	VERT. BARS 'A'
0'-0" TO 2'-0"	2'-0"	1'-3"	1'-0"	#5 @ 18" O.C.
2'-1" TO 3'-0"	2'-5"	1'-8"	1'-0"	#5 @ 18" O.C.
3'-1" TO 4'-0"	3'-6"	2'-3"	1'-0"	#5 @ 18" O.C.

DMHES-020 SCALE: 1"=1'-0"

SITE RETAINING WALL SCHEDULE - LEVEL BACKFILL | 10

REINFORCING DEVELOPMENT & SPLICE LENGTHS (GRADE 60)																													
TYPE	BAR LOCATION	CONCRETE		BAR SIZE																									
		TYPE	STRENGTH	#3			#4			#5			#6			#7			#8			#9			#10			#11		
				ℓ_d	ℓ_s	ℓ_{dh}	ℓ_d	ℓ_s	ℓ_{dh}	ℓ_d	ℓ_s	ℓ_{dh}	ℓ_d	ℓ_s	ℓ_{dh}	ℓ_d	ℓ_s	ℓ_{dh}	ℓ_d	ℓ_s	ℓ_{dh}	ℓ_d	ℓ_s	ℓ_{dh}	ℓ_d	ℓ_s	ℓ_{dh}	ℓ_d	ℓ_s	ℓ_{dh}
1	VERT. REINF. IN CONC WALL	NWC	fc'>4ksi	14	18	6	19	25	7	24	31	9	28	37	10	42	54	12	47	62	14	54	70	15	61	79	17	67	87	19
2	HORIZ. REINF. IN CONC. WALL, FTGS., BEAMS, MISC. (SEE NOTE 5)	NWC	fc'>4ksi	18	24	6	25	32	7	31	40	9	37	48	10	54	70	12	62	80	14	70	91	15	79	102	17	87	113	19
3	SLAB ON GRADE (SEE NOTE 6)	NWC	fc'>4ksi	14	18	6	19	25	7	24	31	9	28	37	10	42	54	12	47	62	14	54	70	15	61	79	17	67	87	19

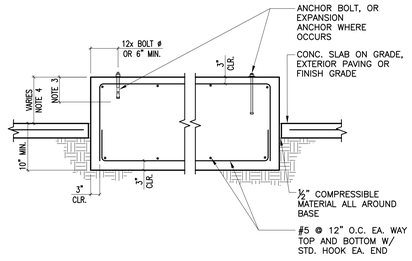
NOTES:
1. ℓ_d = DEVELOPMENT
   ℓ_s = LAP SPLICE LENGTH
   ℓ_{dh} = HOOK DEVELOPMENT LENGTH



2. THE ABOVE DEVELOPMENT & SPLICE LENGTHS ARE CLASS B & APPLY TO ALL REINF. U.N.O. ON DWGS.
3. FOR NONCONTACT LAP SPLICES AND ALL SPLICES IN SHOTCRETE WALLS, ADD 6" TO THE LENGTHS IN THE TABLE ABOVE.
4. WHEN SPLICING BARS OF DIFFERENT SIZE, USE THE LAP SPLICE LENGTH OF LARGER BAR.
5. TYPE 2 VALUES NOTED HAVE ALREADY BEEN INCREASED BY 1.3, ASSUMING A "TOP BAR" CONDITION.
6. FOR SLABS OR CURBS THICKER THAN 12", THE REBAR LAPS SHALL BE INCREASED TO COMPLY WITH TYPE 2 VALUES.

C415-0 SCALE: NO SCALE

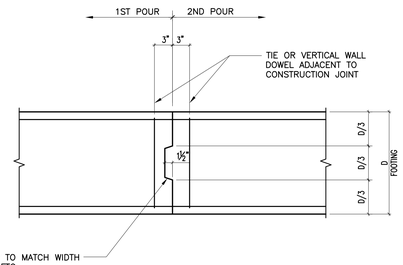
DETAIL | 1



NOTES:
SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
1. LOCATION AND DIMENSIONS OF BASES.
2. LOCATION, NUMBER, SIZE AND TYPE OF BOLTS.
3. EMBEDMENT OF EXPANSION ANCHORS WHERE OCCURS.
4. CURB HEIGHT, 4" MIN.

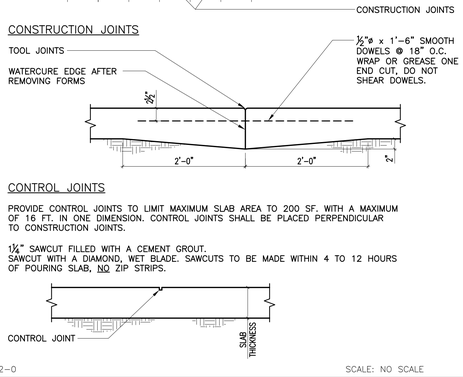
C209-0 SCALE: NO SCALE

CONCRETE BASE FOR EQUIPMENT | 6



C105-0 SCALE: NO SCALE

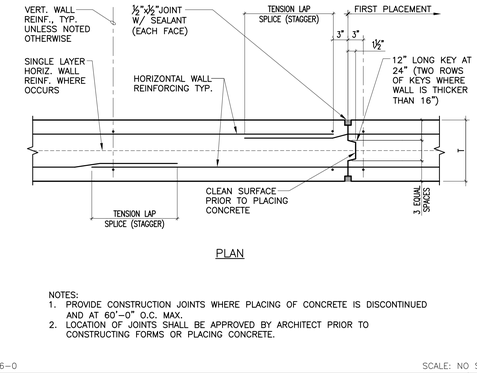
CONTINUOUS FOOTING CONST. JOINT | 2



NOTE:
1. CONTRACTOR TO FIELD LOCATE ALL EXISTING REINFORCING IN EXISTING FOOTING. NO REBAR SHALL BE CUT

C109-0 SCALE: NO SCALE

TYP. VERT. PIPES OR COND. THRU FTG. | 16



NOTES:
1. CONTRACTOR SHALL COORDINATE ALL PIPE AND CONDUIT LOCATIONS WITH BUILDING FOUNDATION REQUIREMENTS.
2. CONDUIT MAY BE RUN THRU STEM OR ENCASEMENT UNDER FOOTING WITHOUT SLEEVES OR FOAM WRAP.
3. CONTRACTOR SHALL X-RAY CONC. STEM WALL PRIOR TO CORING HOLES. NO EXISTING BARS SHALL BE CUT.

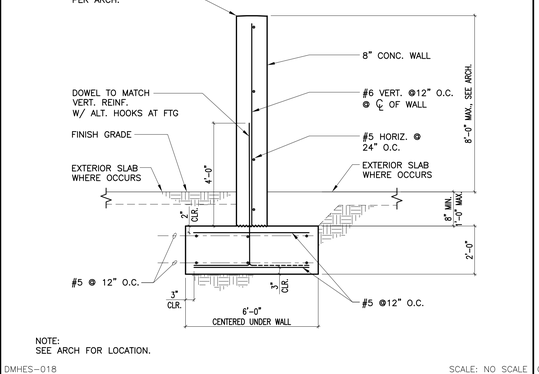
C103-1 SCALE: NO SCALE

PIPES AND CONDUIT TO (E) FOOTINGS | 12

NOTES:
1. PROVIDE CONSTRUCTION JOINTS WHERE PLACING OF CONCRETE IS DISCONTINUED AND AT 60'-0" O.C. MAX.
2. LOCATION OF JOINTS SHALL BE APPROVED BY ARCHITECT PRIOR TO CONSTRUCTING FORMS OR PLACING CONCRETE.

C306-0 SCALE: NO SCALE

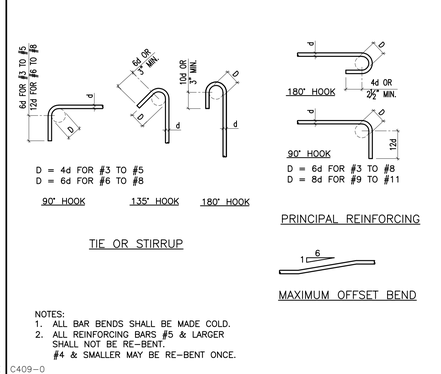
VERTICAL WALL JOINTS | 11



NOTE:
SEE ARCH FOR LOCATION.

DMHES-018 SCALE: NO SCALE

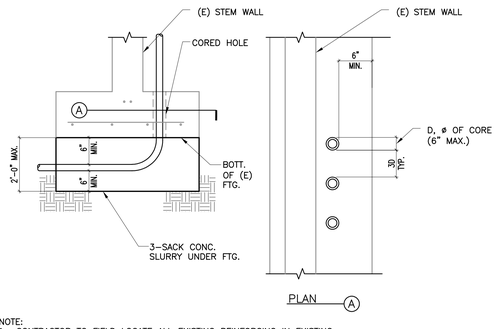
FREESTANDING CONC. WALL | 7



NOTES:
1. ALL BAR BENDS SHALL BE MADE COLD.
2. ALL REINFORCING BARS #5 & LARGER SHALL NOT BE RE-BENT. #4 & SMALLER MAY BE RE-BENT ONCE.

C409-0 SCALE: NO SCALE

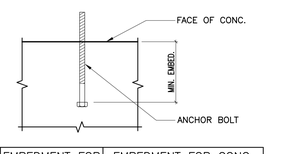
BAR BENDS | 3



NOTE:
FOR SPACING OF VERTICAL WALL JOINTS SEE 11

DMHES-019 SCALE: 1"=1'-0"

TYP. RETAINING SEAT WALL | 8



BOLT SIZE	EMBEDMENT FOR CONCRETE U.N.O.	EMBEDMENT FOR CONC. @ SHEAR WALLS
½"	4"	6"
⅝"	5"	7½"
¾"	6"	9"
⅞"	7"	10½"
1"	8"	12"
1⅛"	9"	13½"
1¼"	10"	15"

NOTES:
1. MINIMUM BOLT SPACING SHALL BE 12 BOLT DIAMETERS WITH A MINIMUM EDGE DISTANCE OF 12 DIAMETERS, UNLESS NOTED OTHERWISE.
2. PROVIDE AN ADDITIONAL 2" OF EMBEDMENT FOR ANCHOR BOLTS LOCATED IN THE TOP OF COLUMNS.
3. ANCHOR BOLTS SHALL BE HEX HEADED WITH THE DIMENSIONS OF THE HEX CONFORMING TO ANSI/ASME B18.2.1 BENT BAR ANCHORS SHALL NOT BE USED.

C501-0 SCALE: NO SCALE

CONCRETE ANCHOR BOLT SCHEDULE | 4

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www.KNAstructural.com
KNA JOB NO: 323.080
No. 2795 Exp. 9-30-21 LARRY R. KAPHEIM REGISTERED PROFESSIONAL ENGINEER STRUCTURAL STATE OF CALIFORNIA

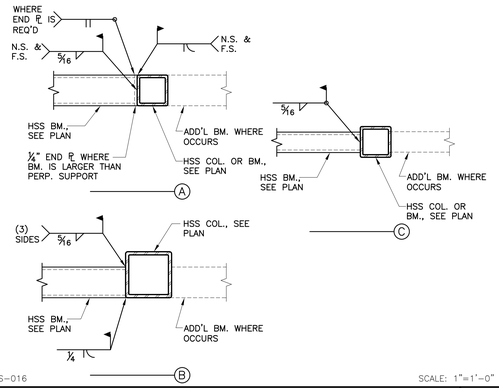
BakerNowicki design studio
731 NINTH AVE, SUITE A, SAN DIEGO, CALIFORNIA 92101
619.795.2490
www.bndesignstudio.com

TYPICAL
CONCRETE & REINFORCING DETAILS

NO.	DATE	ISSUE

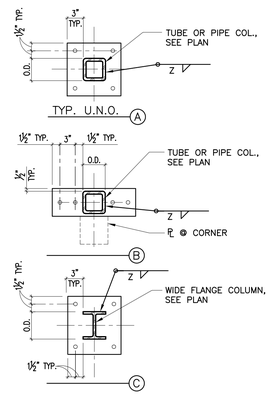
PROJECT NO: 19009
DATE: 02/20/2020

DRAWING
S0.4

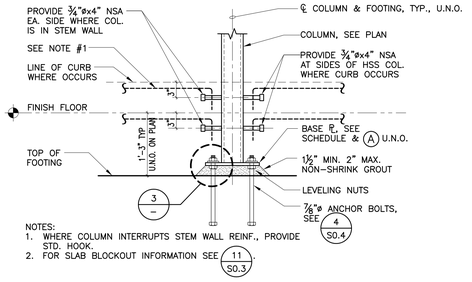


DMHES-016 SCALE: 1"=1'-0"

13 HSS BEAM TO HSS COLUMN 9



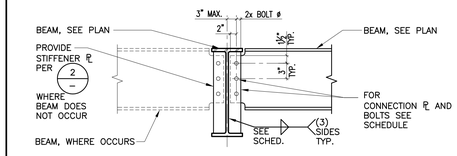
BASE ℄ SCHEDULE		
MEMBER SIZE O.D.	℄ THICKNESS	WELD Z
4" OR LESS	5/8"	¼"
GREATER THAN 4" TO 6"	¾"	¼"
GREATER THAN 6"	1"	5/16"



NOTES:
1. WHERE COLUMN INTERRUPTS STEM WALL REINF., PROVIDE STD. HOOK.
2. FOR SLAB BLOCKOUT INFORMATION SEE 11 S0.3

S111-0 SCALE: NO SCALE

6 COLUMN BASE PLATES

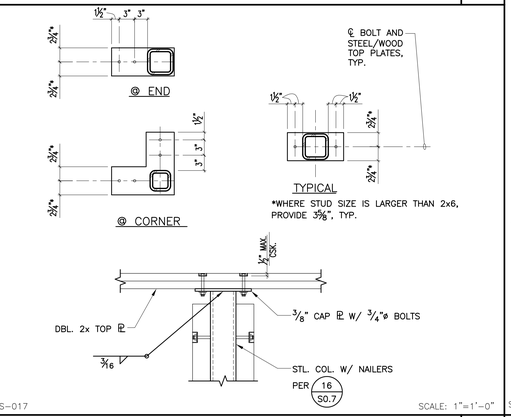


BEAM TO BEAM CONNECTION SCHEDULE				
BEAM DEPTH	CONN. ℄ THICKNESS	NO. AND ø OF A325N HS BOLTS	WELD SIZE	REMARKS
W12 – W14	¼"	(3)⅞"	¼"	
W16	⅜"	(4)⅞"	¼"	
W18 – W21	⅜"	(5)⅞"	5/16"	

NOTES:
1. FILLET WELD SHALL BE AS SHOWN, UNLESS A GREATER SIZE IS REQUIRED BY THE MANUAL OF STEEL CONSTRUCTION ALLOWABLE STRESS DESIGN, BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, CHAPTER J, SEC. J2, TABLE J2.4.
2. HORIZONTAL SHORT SLOTTED HOLES OPTIONAL. (PROHIBITED @ SLIP CRITICAL CONNECTIONS).

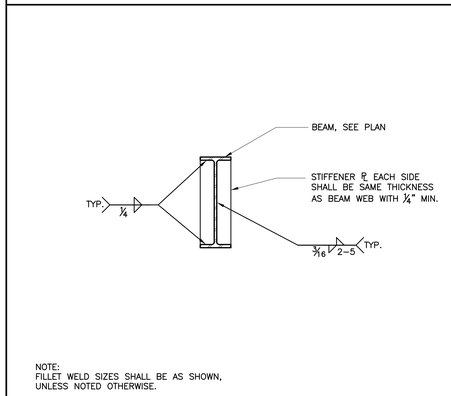
S101-0 SCALE: NO SCALE

1 BEAM TO BEAM CONNECTION



DMHES-017 SCALE: 1"=1'-0"

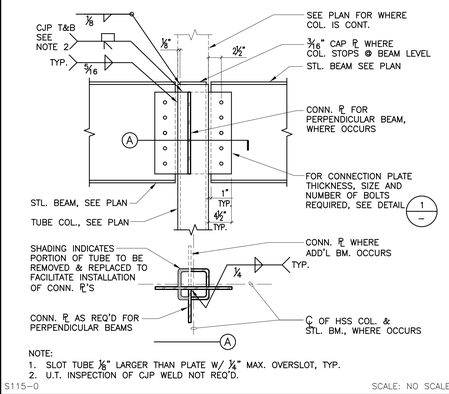
14 HSS COL. TO TOP PLATE CONN. 10



NOTE:
FILLET WELD SIZES SHALL BE AS SHOWN, UNLESS NOTED OTHERWISE.

S105-0 SCALE: NO SCALE

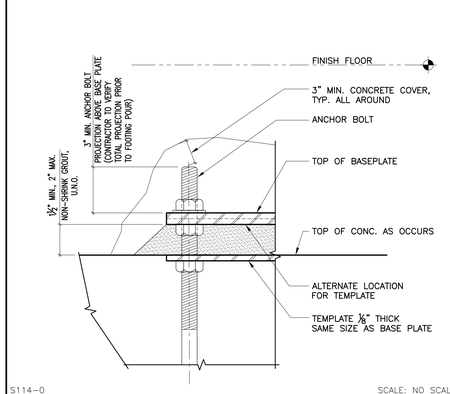
2 BEAM STIFFENER PLATES



NOTE:
1. SLOT TUBE ⅛" LARGER THAN PLATE W/ ¼" MAX. OVERSLOT, TYP.
2. U.T. INSPECTION OF CJP WELD NOT REQ'D.

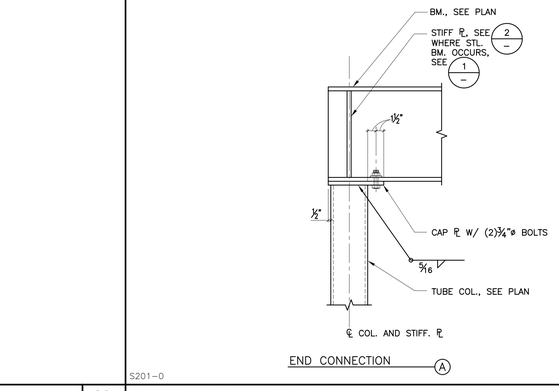
S115-0 SCALE: NO SCALE

11 BEAM TO SIDE OF HSS COL. CONN. (2 SIDES) 7

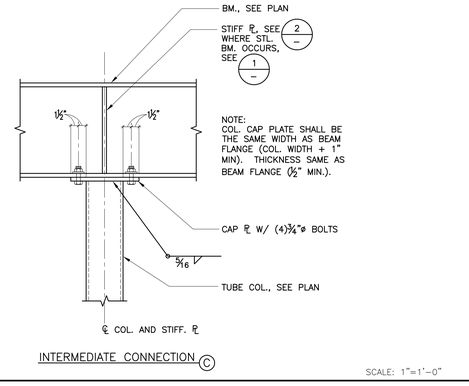


S114-0 SCALE: NO SCALE

3 ANCHOR BOLT PROJECTION

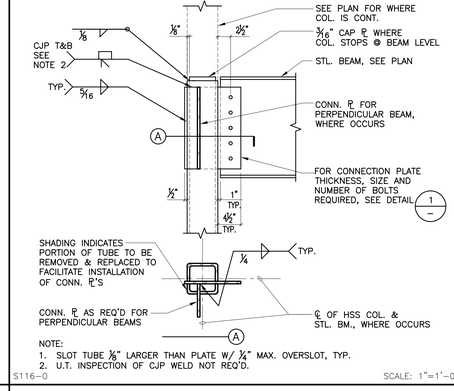


S201-0



SCALE: 1"=1'-0"

16 STEEL CONNECTION - BEAM TO COLUMN 8



NOTE:
1. SLOT TUBE ⅛" LARGER THAN PLATE W/ ¼" MAX. OVERSLOT, TYP.
2. U.T. INSPECTION OF CJP WELD NOT REQ'D.

S116-0 SCALE: 1"=1'-0"

4 BEAM TO SIDE OF HSS COL. CONN. (ONE SIDE)

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KNA JOB NO: 323.080
REGISTERED PROFESSIONAL ENGINEER DENNIS R. KAPRETICH No. 2795 Exp. 9-30-21 STRUCTURAL STATE OF CALIFORNIA

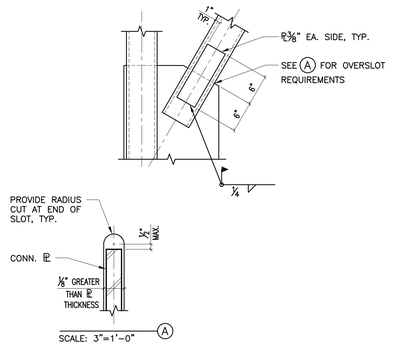
BakerNowicki design studio
731 NINTH AVE, SUITE A, SAN DIEGO, CALIFORNIA 92101
619.795.2450
www.bndesignstudio.com

TYPICAL
STEEL DETAILS

NO. DATE ISSUE

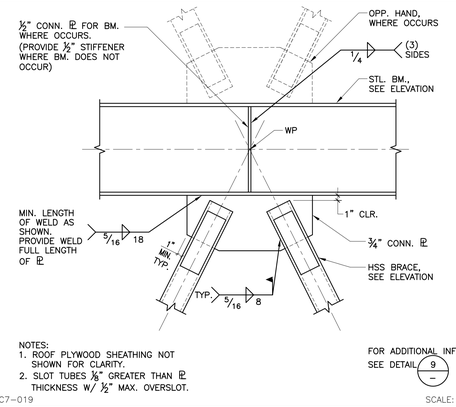
PROJECT NO: 19009
DATE: 02/20/2020

DRAWING
S0.5



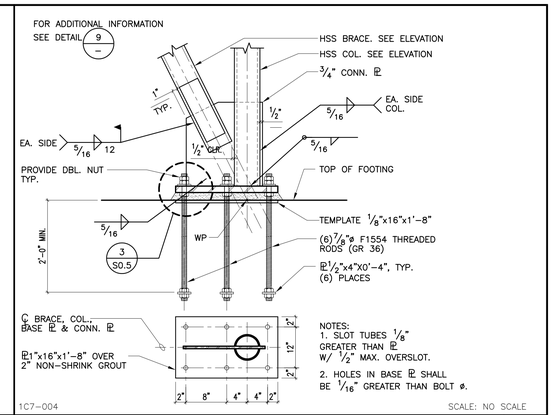
DMHES-015 SCALE: 1"=1'-0"

13 BRACED FRAME CONNECTION



1C7-019 SCALE: NO SCALE

9 BRACED FRAME CONNECTION



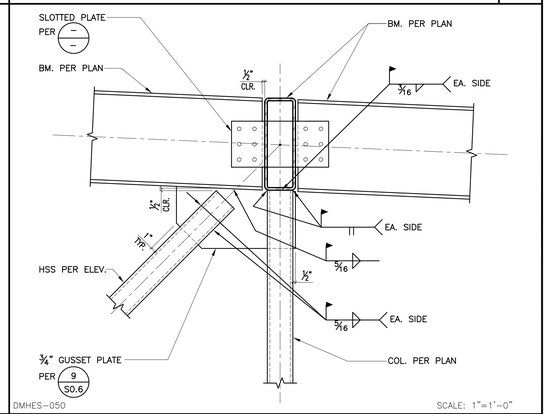
1C7-004 SCALE: NO SCALE

1 BRACED FRAME CONNECTION AT BASE

14

10

6



DMHES-050 SCALE: 1"=1'-0"

2 DETAIL

15

11

7

3

16

12

8

4

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REGISTERED PROFESSIONAL ENGINEER
KAREN K. KAPPETTAS
No. 2795
Exp. 9-30-21
STRUCTURAL
STATE OF CALIFORNIA

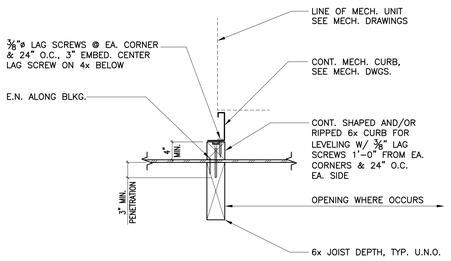
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TYPICAL
STEEL DETAILS

NO. DATE ISSUE

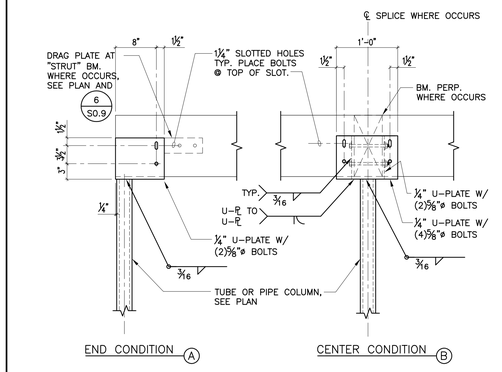
PROJECT NO: 19009
DATE: 02/20/2020

DRAWING
S0.6



DMHES-012 SCALE: 1"=1'-0"

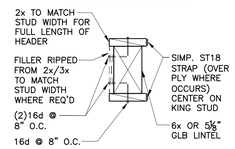
EQUIPMENT SUPPORT PARALLEL TO ROOF JOISTS | 13



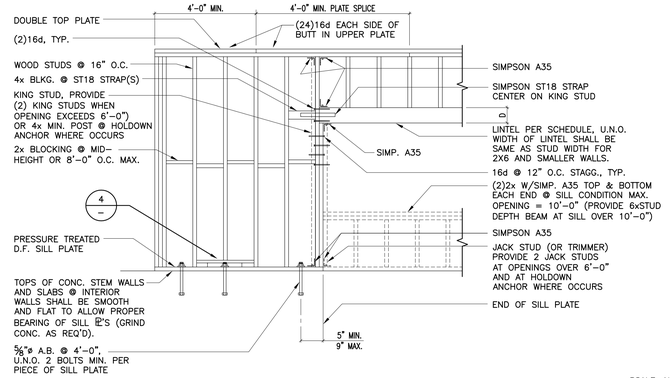
W108-0 SCALE: NO SCALE

WOOD BEAM TO STEEL COLUMN | 9

LINTEL SCHEDULE	
SPAN	D
UP TO 6'-0"	5½"
6'-1" TO 8'-0"	7¼"
8'-1" TO 10'-0"	9¼"
OVER 10'-0"	SEE PLAN

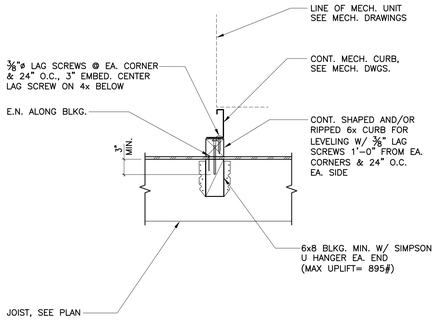


HDR. IN 2x8 AND LARGER STUD WALL



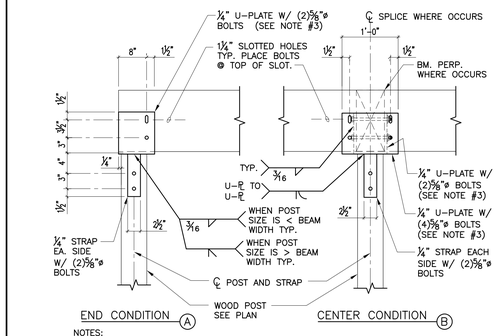
W101-0 SCALE: NO SCALE

WOOD STUD WALL FRAMING | 1



DMHES-013 SCALE: 1"=1'-0"

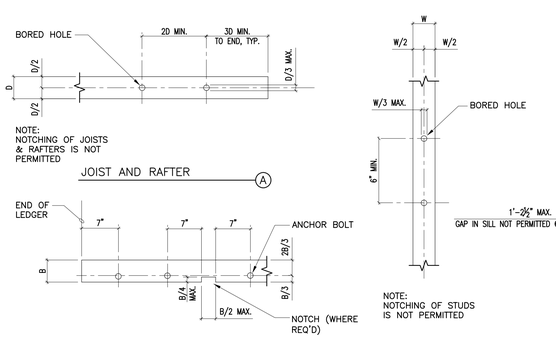
EQUIPMENT SUPPORT PERPENDICULAR TO ROOF JOIST | 14



NOTES:
1. DAP IN POST STRAPS WHEN POST IS GREATER THAN BEAM WIDTH.
2. EASE BEAM CORNERS TO FIT RADIUS OF U-PLATE.
3. AT CONTRATOR'S OPTION PROVIDE SIMPSON ECC, CC, CCT, OR CCC IN LIEU OF CUSTOM ℄'S.

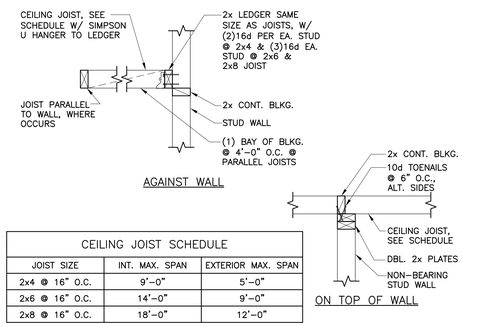
W106-0 SCALE: NO SCALE

WOOD BEAM TO WOOD POST | 10



W103 SCALE: NO SCALE

WOOD FRAMING HOLES AND NOTCHING | 2

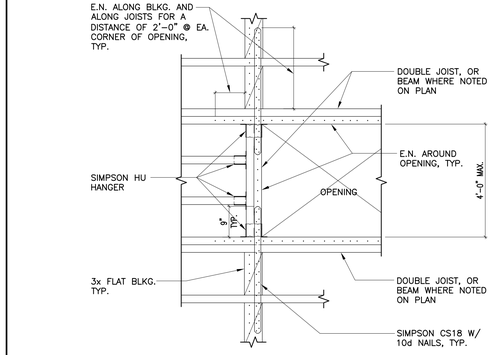


CEILING JOIST SCHEDULE		
JOIST SIZE	INT. MAX. SPAN	EXTERIOR MAX. SPAN
2x4 @ 16" O.C.	9'-0"	5'-0"
2x6 @ 16" O.C.	14'-0"	9'-0"
2x8 @ 16" O.C.	18'-0"	12'-0"

NOTE: THIS DETAIL IS INTENDED FOR CEILING JOISTS THAT SPAN FROM WALL TO WALL @ CONTRACTORS OPTION.

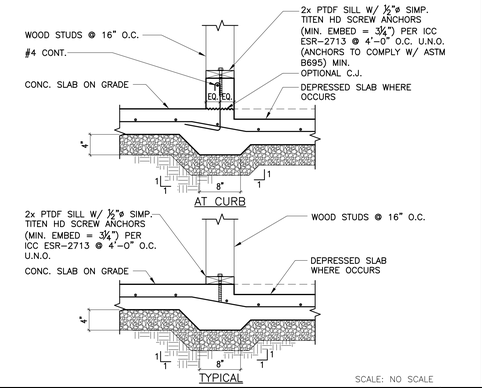
W212-0 SCALE: NO SCALE

CEILING JOIST SCHEDULE & DETAIL | 15



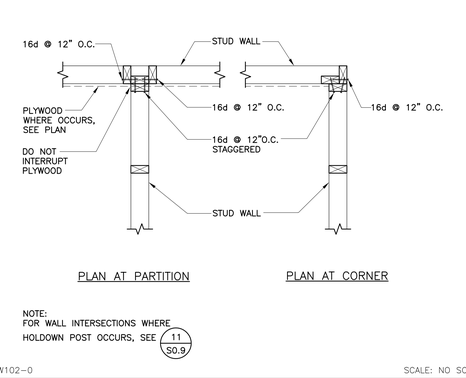
W111-0 SCALE: NO SCALE

OPENING IN HORIZ. WOOD FRAMING | 11



W113-0 SCALE: NO SCALE

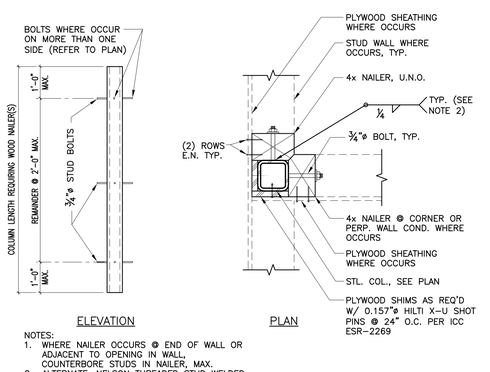
WOOD STUD PARTITION BOTTOM (NON-BEARING) | 7



NOTE: FOR WALL INTERSECTIONS WHERE HOLDOWN POST OCCURS, SEE 11/S0.9

W102-0 SCALE: NO SCALE

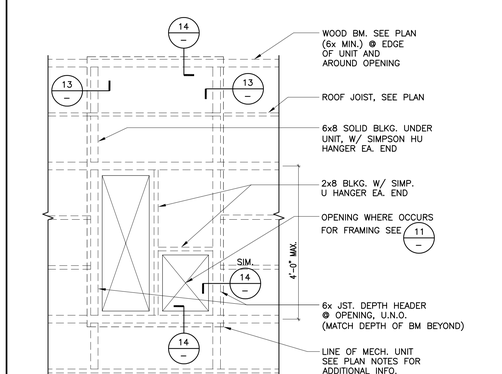
WOOD STUD WALL INTERSECTIONS | 3



NOTES:
1. WHERE NAILER OCCURS @ END OF WALL OR ADJACENT TO OPENING IN WALL, COUNTERBORE STUDS IN NAILER, MAX.
2. ALTERNATE: NELSON THREADED STUD WELDED

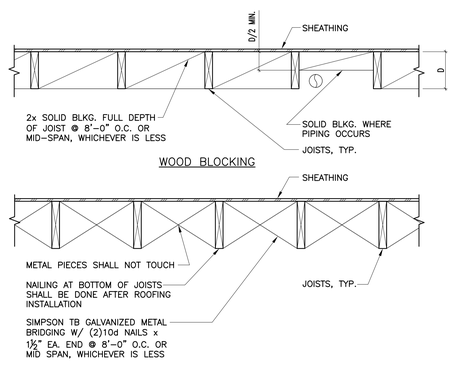
W116-0 SCALE: NO SCALE

WOOD NAILERS TO STEEL COLUMNS | 16



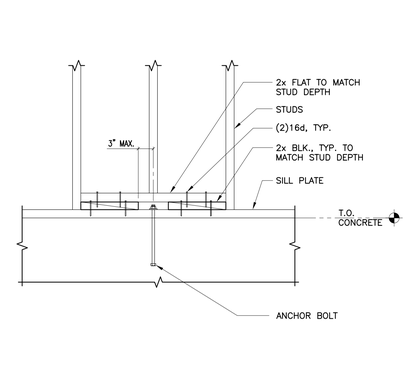
W120-0 SCALE: NO SCALE

ROOF FRAMING AT MECHANICAL UNIT | 12



W110-0 SCALE: NO SCALE

WOOD JOIST BRIDGING | 8



W114-0 SCALE: NO SCALE

ANCHOR BOLT AT WOOD STUD | 4

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
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KNA JOB NO: 323.080
REGISTERED PROFESSIONAL ENGINEER CARRY R. KAPPELLER No. 2785 Exp. 9-30-21 STRUCTURAL STATE OF CALIFORNIA

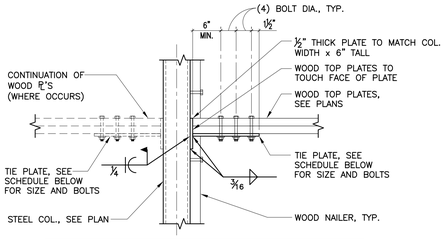
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TYPICAL
WOOD FRAMING DETAILS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/20/2020

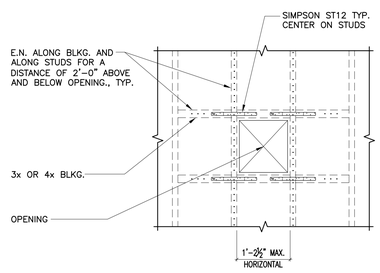
DRAWING
S0.7



TIE PLATE SCHEDULE			
MARK	TIE PLATE	BOLTS	REMARKS
A	¼"x5"	(2)¾"ø	
B	¼"x5"	(3)¾"ø	
C	3/8"x5"	(4)¾"ø	
D	3/8"x5"	(5)¾"ø	

W210–0 SCALE: NO SCALE

TIE PLATE CONN. AND SCHEDULE 13

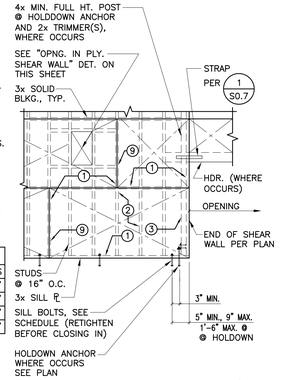


NOTES:
1. DO NOT CUT STUDS UNLESS SPECIFICALLY DETAILED.
2. MAX. VERT. DIMENSION = 2x HORIZONTAL DIMENSION.
3. IF OPENINGS LINE UP HORIZONTALLY, NO MORE THAN ONE OPENING IN EVERY TEN STUD SPACES IS PERMITTED.

W204–0 SCALE: NO SCALE

OPEN IN PLYWOOD SHEAR WALL 9

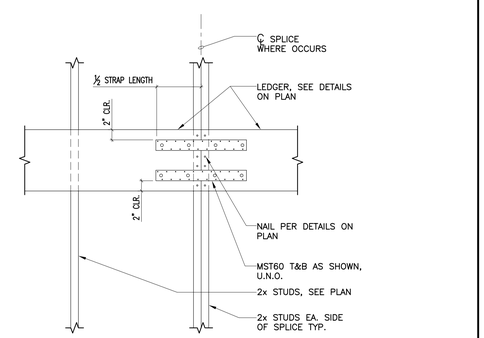
NOTES:
1. EDGE NAILING (E.N.), SEE SCHEDULE.
2. INTERMEDIATE NAILING @ 12", SAME SIZE AS E.N.
3. E.N. ALONG POST WHERE HOLDDOWN ANCHOR OCCURS.
4. EDGE DISTANCE FOR NAILS SHALL BE ⅜" FOR 2x MEMBERS & ½" FOR 3x MEMBERS.
5. PLYWOOD MAY BE INSTALLED HORIZONTALLY OR VERTICALLY, STAGGERED JOINTS.
6. SEE PLAN FOR LOCATION OF PLYWOOD SHEATHING.
7. EXTEND PLYWOOD FOR FULL LENGTH OF WALL ABOVE DOORS AND AROUND WINDOWS.
8. MINIMUM PLYWOOD WIDTH SHALL BE 12".
9. PROVIDE 3x STUDS AT SPLICE OF SHEETS AT WALLS DESIGNATED BY *
10. STAGGER E.N. ALONG ADJOINING PANEL EDGES. SILL BOLTS SHALL HAVE PLATE WASHERS PER 6/– & EMBED PER 4/S0.4



SHEATHED WALL SCHEDULE			
MARK	THICKNESS	E.N.	SILL BOLTS
A	15/32"	10d @ 6"	⅝" @ 42"
* B	15/32"	10d @ 4"	⅝" @ 30"
* C	15/32"	10d @ 3"	⅝" @ 24"
* E	15/32"	10d @ 2"	⅝" @ 16"

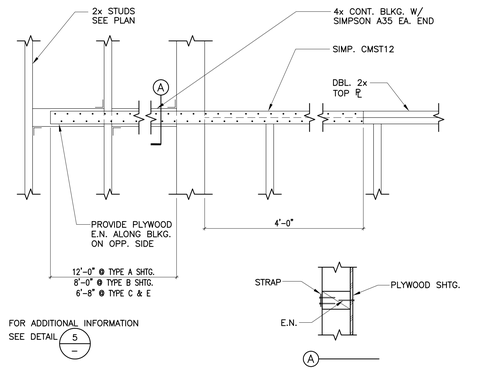
DMHES–008 SCALE: ¾"=1'–0"

PLYWOOD SHEATHING - WALLS 5



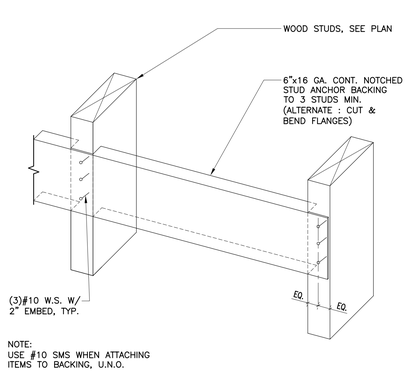
W119–0 SCALE: NO SCALE

TYPICAL LEDGER SPLICE 1



DMHES–009 SCALE: NO SCALE

TOP PLATES TO WD. WALL - DRAG DETAIL 14

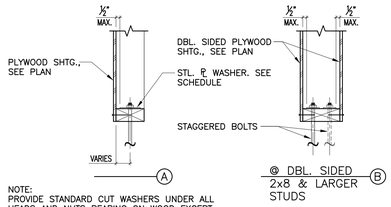


NOTE:
USE #10 SMS WHEN ATTACHING ITEMS TO BACKING, U.N.O.

W216–0 SCALE: NO SCALE

BACKING AT WOOD STUDS 10

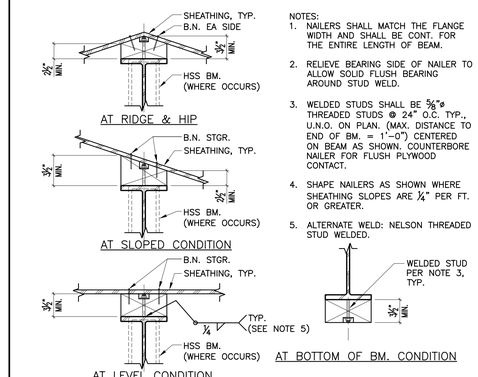
BOLT SIZE	MALLEABLE IRON WASHER	STEEL PLATE WASHER	SIMPSON PRODUCT
½"ø	⅛"x2½"ø	¼"x4½"x3"	BPS½–6
⅝"ø	5/16"x2½"ø	¼"x4½"x3"	BPS⅝–6
¾"ø	3/8"x3"ø	5/16"x4½"x3"	BPS¾–6
⅞"ø	7/16"x3½"ø	⅜"x3½"x3½"	BP⅞
1"ø	½"x4"ø	7/16"x4"x4"	BP1



NOTE:
PROVIDE STANDARD CUT WASHERS UNDER ALL HEADS AND NUTS BEARING ON WOOD EXCEPT WHERE SPECIFICALLY NOTED ON DRAWINGS.

W112–0 SCALE: NO SCALE

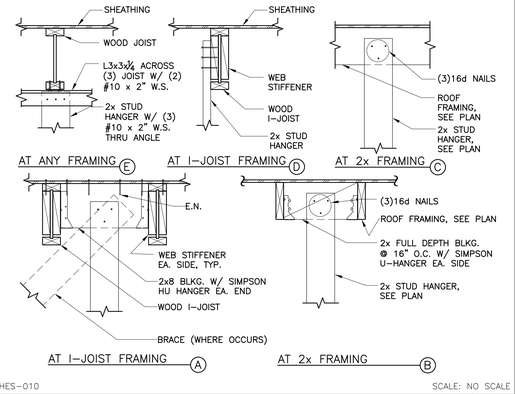
WOOD FRAMING WASHER SCHEDULE 6



NOTES:
1. NAILERS SHALL MATCH THE FLANGE WIDTH AND SHALL BE CONT. FOR THE ENTIRE LENGTH OF BEAM.
2. RELIEVE BEARING SIDE OF NAILER TO ALLOW SOLID FLUSH BEARING AROUND STUD WELD.
3. WELDED STUDS SHALL BE ⅝"ø THREADED STUDS @ 24" O.C. TYP., U.N.O. ON PLAN. (MAX. DISTANCE TO END OF BM. = 1'–0") CENTERED ON BEAM AS SHOWN. COUNTERBORE NAILER FOR FLUSH PLYWOOD CONTACT.
4. SHAPE NAILERS AS SHOWN WHERE SHEATHING SLOPES ARE ¼" PER FT. OR GREATER.
5. ALTERNATE WELD: NELSON THREADED STUD WELDED.

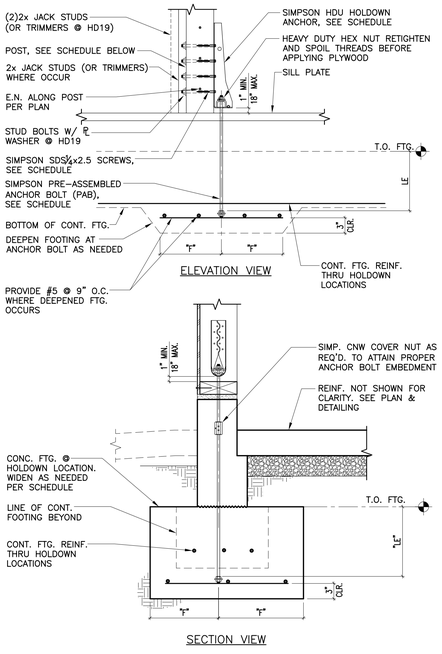
W118–0 SCALE: NO SCALE

STEEL BEAM NAILERS 2



DMHES–010 SCALE: NO SCALE

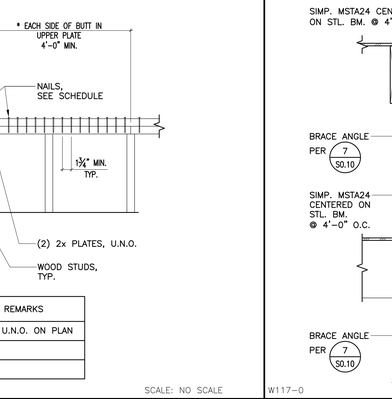
TYP. STUD SOFFIT TO ROOF FRAMING 15



SCREW & BOLT SCHEDULE					
HOLDOWN	# OF SIMPSON SDS¼"x 2½" SCREWS U.N.O.	MIN. POST	"LE"	PAB SIZE	"F"	PLATE WASHER
HDU2–SDS2.5	6	4x STUD DEPTH	6½"	PAB5 ⅝"ø	10"	1½"x1¾"x¼"x¾"
HDU4–SDS2.5	10	4x STUD DEPTH	6½"	PAB5 ⅝"ø	10"	1½"x1¾"x¼"x¾"
HDU5–SDS2.5	14	4x STUD DEPTH	6½"	PAB5 ⅝"ø	10"	1½"x1 1/2"x1¾"
HDU8–SDS2.5	20	6x STUD DEPTH	9"	PAD7 ⅞"ø	13½"	1½"x2¾"x2¾"x¾"
HDU11–SDS2.5	30	6x STUD DEPTH	11"	PAB8 1"ø	16½"	5"øx3x2¾"x¾"
HDU14–SDS2.5	36	6x STUD DEPTH	11"	PAB8 1"ø	16½"	5"øx3x2¾"x¾"

W215–0 SCALE: NO SCALE

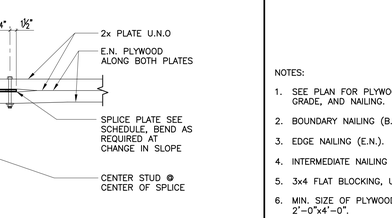
HOLDOWN ANCHORS 12



MARK	16d NAILS *	REMARKS
C	24	TYP., U.N.O. ON PLAN
D	30	
E	36	

W207–0 SCALE: NO SCALE

WOOD FRAMING WASHER SCHEDULE 6

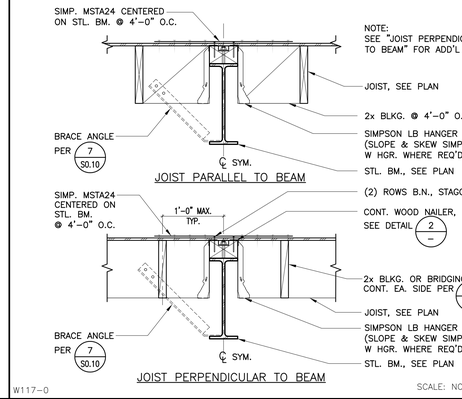


NOTE:
DO NOT DAP WOOD R'S FOR STEEL SPLICE PLATES.

MARK	NO. OF BOLTS EACH SIDE	SPLICE PLATE
F	(2)¾"ø	¼"x5"
G	(3)¾"ø	¼"x5"
H	(4)¾"ø	⅜"x5"
J	(5)¾"ø	⅜"x5"

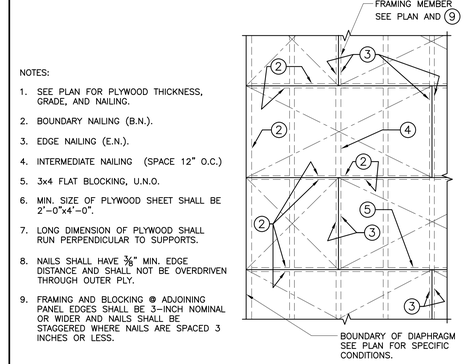
W209–0 SCALE: NO SCALE

TOP PLATE SPLICE 8



W117–0 SCALE: NO SCALE

JOIST TO STEEL BEAMS 3



NOTES:
1. SEE PLAN FOR PLYWOOD THICKNESS, GRADE, AND NAILING.
2. BOUNDARY NAILING (B.N.).
3. EDGE NAILING (E.N.).
4. INTERMEDIATE NAILING (SPACE 12" O.C.)
5. 3x4 FLAT BLOCKING, U.N.O.
6. MIN. SIZE OF PLYWOOD SHEET SHALL BE 2'–0"x4'–0".
7. LONG DIMENSION OF PLYWOOD SHALL RUN PERPENDICULAR TO SUPPORTS.
8. NAILS SHALL HAVE ⅜" MIN. EDGE DISTANCE AND SHALL NOT BE OVERDRIVEN THROUGH OUTER PLY.
9. FRAMING AND BLOCKING @ ADJOINING PANEL EDGES SHALL BE 3–INCH NOMINAL OR WIDER AND NAILS SHALL BE STAGGERED WHERE NAILS ARE SPACED 3 INCHES OR LESS.

W202–0 SCALE: NO SCALE

HORIZONTAL PLYWOOD SHEATHING 4

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KNA JOB NO: 323.080
REGISTERED PROFESSIONAL ENGINEER TERRY R. KAPPETAS No. 2795 Exp. 9-30-21 STRUCTURAL STATE OF CALIFORNIA

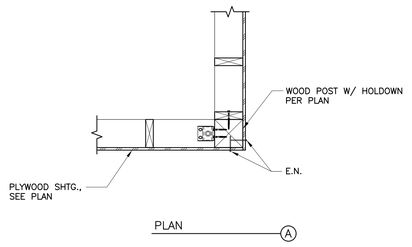
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TYPICAL
WOOD FRAMING DETAILS

NO.	DATE	ISSUE

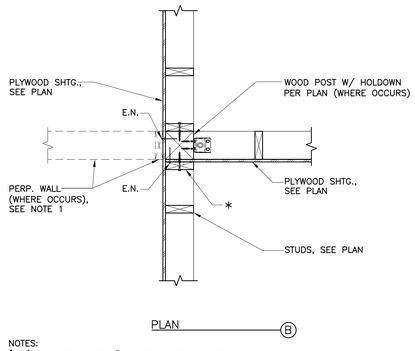
PROJECT NO: 19009
DATE: 02/20/2020

DRAWING
S0.8



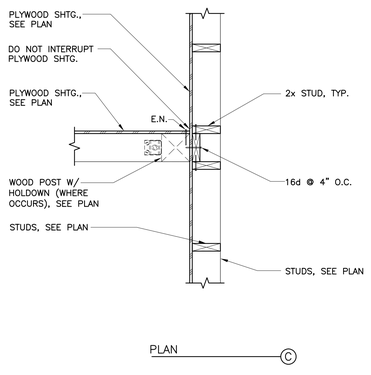
NOTE:
NON-BEARING STUDS NOT SHOWN FOR CLARITY.

13



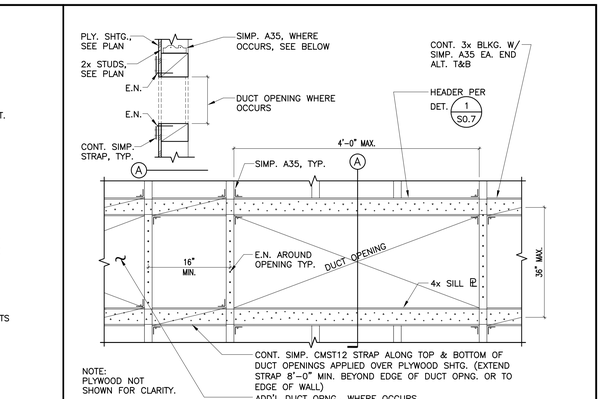
NOTES:
1. * INDICATES NOTE, "DO NOT PLACE THIS STUD UNTIL INSPECTOR HAS APPROVED PANEL NAILING".
2. NON-BEARING STUDS NOT SHOWN FOR CLARITY.

14



W702-0 SCALE: 1"=1'-0"

15 WALL INTERSECTION 11

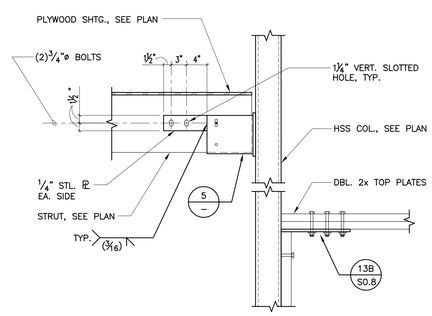


DMHES-006 SCALE: 1"=1'-0"

WOOD BEAM TO STEEL COLUMN 5

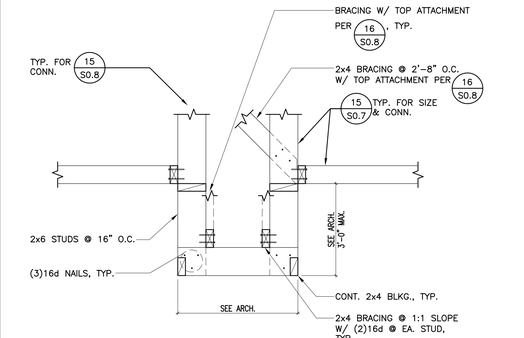
DMHES-004 SCALE: 1"=1'-0"

OPENING IN PLYWOOD SHEARWALL 1



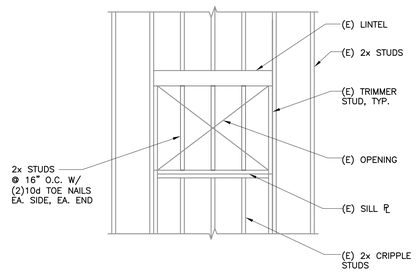
DMHES-007 SCALE: 1"=1'-0"

DRAG DETAIL 6



DMHES-005 SCALE: NO SCALE

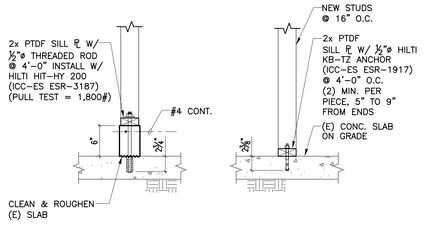
TYP. STUD SOFFIT ELEVATION CHANGE 2



NOTE:
ALL NEW FRAMING TO MATCH WIDTH OF (E) WALL FRAMING.

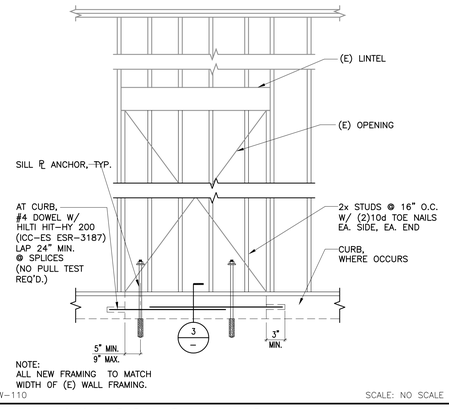
MW-111 SCALE: NO SCALE

IN-FILL (E) WINDOW OPENING 7



MW-112 SCALE: NO SCALE

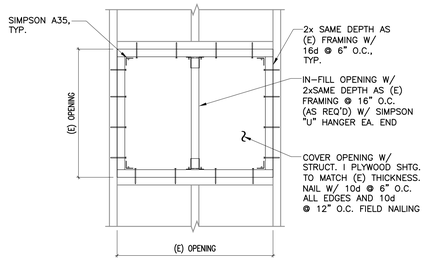
NEW WOOD STUD BOTTOM 3



NOTE:
ALL NEW FRAMING TO MATCH WIDTH OF (E) WALL FRAMING.

MW-110 SCALE: NO SCALE

INFILL (E) DOOR OPENING 8



MW116-0 SCALE: NO SCALE

IN-FILL (E) ROOF OPENING 4

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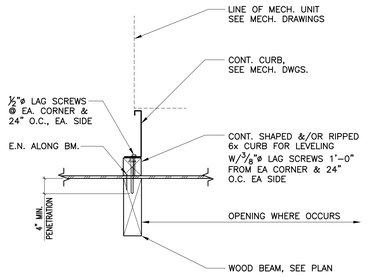
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TYPICAL
WOOD FRAMING
DETAILS

NO. DATE ISSUE

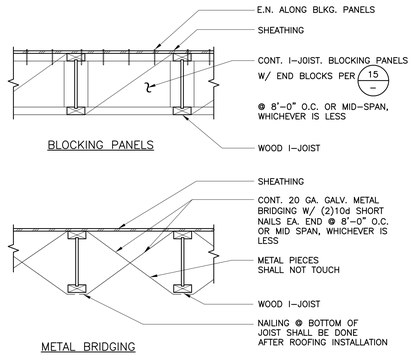
PROJECT NO: 19009
DATE: 02/20/2020

DRAWING
S0.9



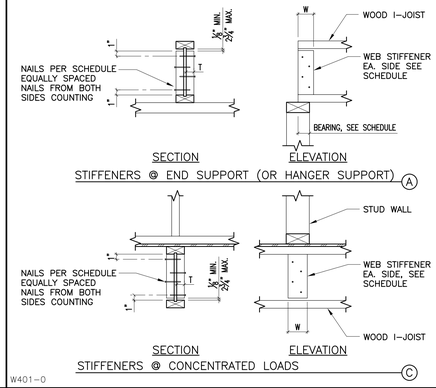
DMHES-002 SCALE: 1"=1'-0"

EQUIPMENT SUPPORT PARALLEL TO ROOF JOISTS 13



W407-0 SCALE: NO SCALE

WOOD I-JOIST BRIDGING 9

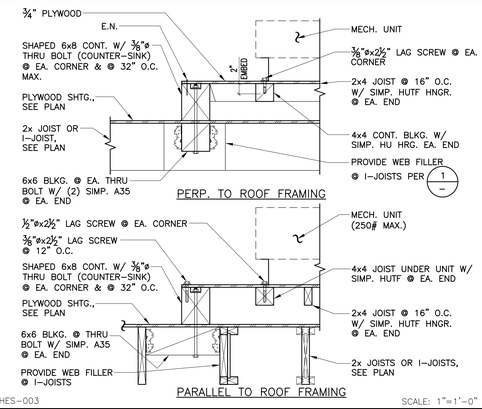


WEB STIFFENER SCHEDULE						
JOIST DEPTH	T	W MIN.	NAILS REQUIRED		BEARING	
			END	INT.	END	INT.
18" RED-I65	1"	2 5/16"	(7)8d	(7)8d	2½"	3½"
20" RED-I65	1"	2 5/16"	(8)8d	(8)8d	2½"	3½"
24" RED-I65	1"	2 5/16"	(10)8d	(10)8d	2½"	3½"

NOTES:
1. WEB STIFFENERS SHALL BE PLYWOOD SHTG. MEETING PS-1 OR PS-2 W/ FACE GRAIN PARALLEL W/ LONG DIR.
2. WEB STIFFENERS MAY BE FIELD INSTALLED, EXCEPT STIFFENERS FOR JOISTS 22" DEEP AND DEEPER WHICH SHALL BE FACTORY INSTALLED.

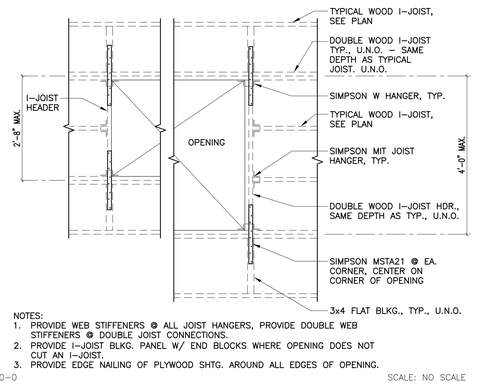
W401-0 SCALE: NO SCALE

WOOD I-JOIST WEB STIFFENERS 1



DMHES-003 SCALE: 1"=1'-0"

MECHANICAL UNIT PLATFORM (WT. ≤ 250#) 14

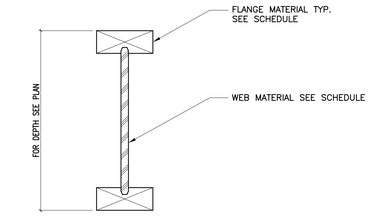


NOTES:
1. PROVIDE WEB STIFFENERS @ ALL JOIST HANGERS, PROVIDE DOUBLE WEB STIFFENERS @ DOUBLE JOIST CONNECTIONS.
2. PROVIDE I-JOIST BLKG. PANEL W/ END BLOCKS WHERE OPENING DOES NOT CUT AN I-JOIST.
3. PROVIDE EDGE NAILING OF PLYWOOD SHTG. AROUND ALL EDGES OF OPENING.

W410-0 SCALE: NO SCALE

WOOD I-JOIST FRAMING AT OPENING 10

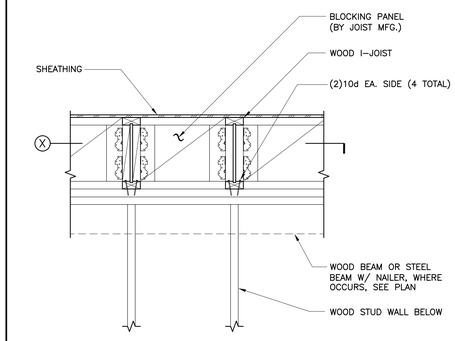
MANUFACTURER	SERIES	FLANGE MATERIAL	WEB MATERIAL
REDBUILT	RED I-65	LAMINATED VENEER LUMBER (LVL)	7/16" PERFORMANCE PLUS (OSB)

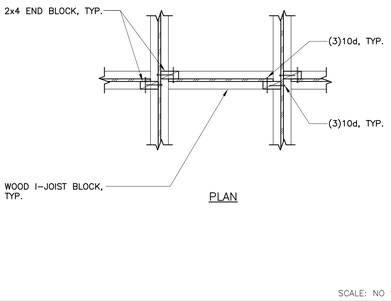


NOTES:
1. JOISTS SHALL BE MANUFACTURED BY REDBUILT (ICC ESR-2994).
2. SEE SHEET S0.2 FOR ADDITIONAL NOTES.

W404-0 SCALE: NO SCALE

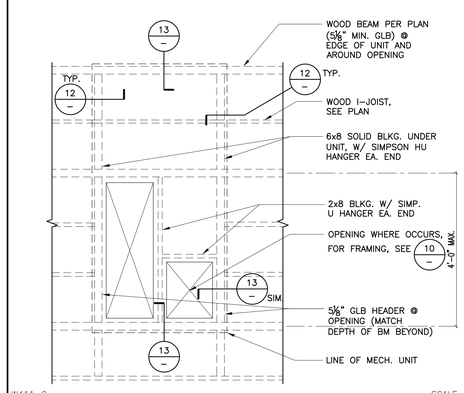
TYPICAL WOOD I-JOIST 6





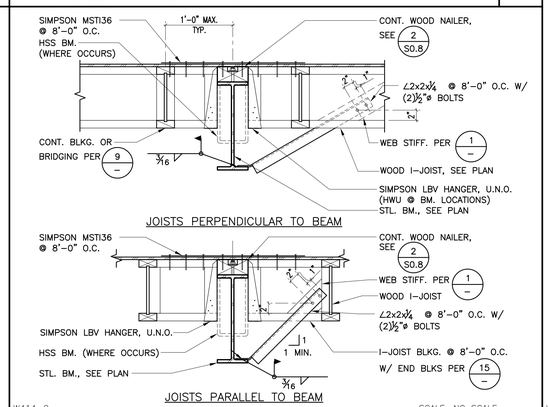
W405-0 SCALE: NO SCALE

WOOD I-JOIST BLOCKING PANEL 15



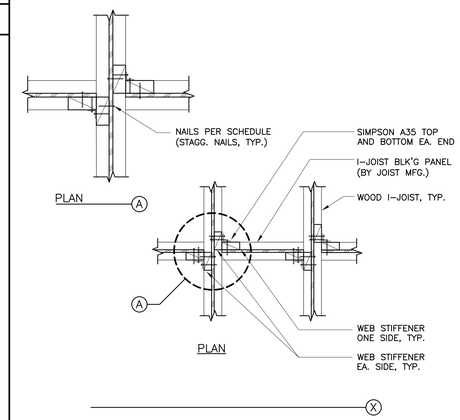
W411-0 SCALE: NO SCALE

ROOF FRAMING AT MECHANICAL UNIT 11



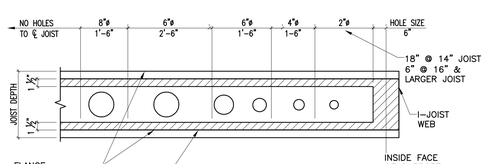
W414-0 SCALE: NO SCALE

WOOD I-JOIST TO STEEL BEAMS 7



W402-0 SCALE: NO SCALE

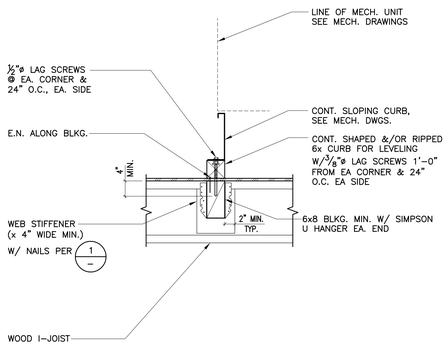
WOOD I-JOIST BEARING CONNECTION 3



NOTES:
1. HOLES MAY BE CUT IN WEB FOR ELECTRICAL, PLUMBING OR HVAC DUCTS.
2. THE MAXIMUM ALLOWABLE SIZE OF HOLE THRU THE I-JOIST WEB MAY INCREASE AS THE DISTANCE FROM THE SUPPORT INCREASES. SEE DIAGRAM ABOVE.
3. ROUND HOLES: FOR SIMPLE SPANS AND UNIFORM LOADS, USE THE DIAGRAM TO DETERMINE ALLOWABLE HOLE SIZES.
4. SQUARE HOLES: MULTIPLY THE MAX. ROUND HOLE DIAMETER BY 0.6 (EXAMPLE: 6" x 0.6 = 3⅗" x 3⅗" SQ. HOLE).
5. MULTIPLE HOLES: WHERE MORE THAN ONE HOLE IS DESIRED, THE AMOUNT OF WOOD BETWEEN HOLES MUST EQUAL OR EXCEED TWICE THE DIAMETER OF THE LARGEST HOLE OR TWICE THE SIZE OF THE LARGEST SQUARE HOLE.
6. DO NOT CUT HOLES IN CANTILEVER PORTIONS OF JOISTS, WHERE OCCURS.
7. HOLES TO BE CUT IN WEB OF WOOD I-JOIST SHALL COMPLY WITH JOIST MANUFACTURER ICC REPORT'S (ESR-2994) RECOMMENDATIONS AND OBTAIN APPROVAL FROM ENGINEER OF RECORD BEFORE CUTTING.

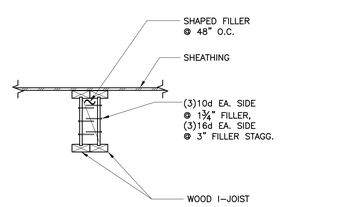
W408-0 SCALE: NO SCALE

HOLES IN WOOD I-JOIST 16



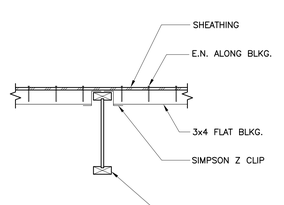
DMHES-001 SCALE: 1"=1'-0"

EQUIPMENT SUPPORT PERPENDICULAR TO ROOF I-JOIST 12



W409-0 SCALE: NO SCALE

DOUBLE WOOD I-JOIST 8



W406-0 SCALE: NO SCALE

BLOCKING TO WOOD I-JOIST 4

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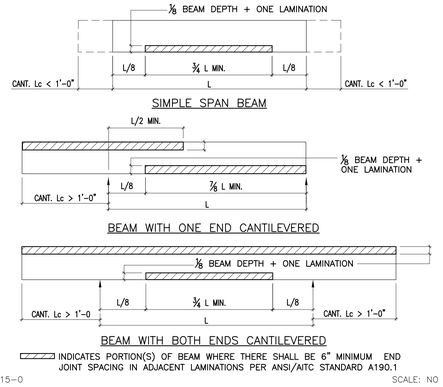
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TYPICAL
WOOD I-JOIST
DETAILS

NO.	DATE	ISSUE

PROJECT NO: 19009
DATE: 02/20/2020

DRAWING
S0.10



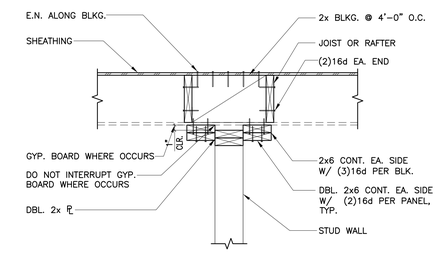
W115–0 SCALE: NO SCALE

13 | SPACING OF END JOINTS IN GLB | 9

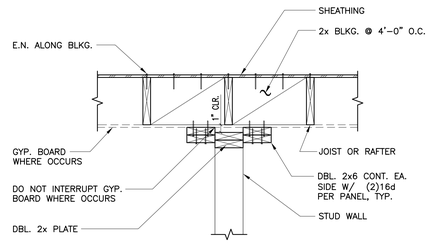
14 | 10

15 | 11

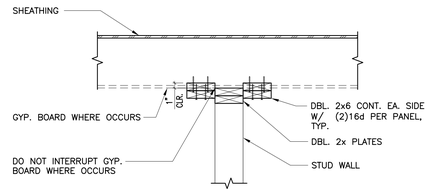
16 | 12



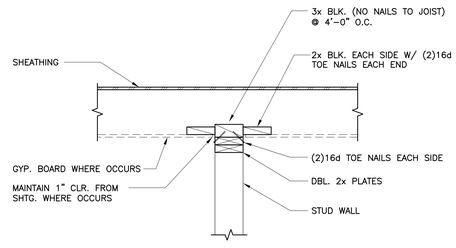
PARALLEL TO JOISTS (A)



PARALLEL TO JOISTS (B)



PERPENDICULAR TO JOISTS (C)
(NON–BEARING)

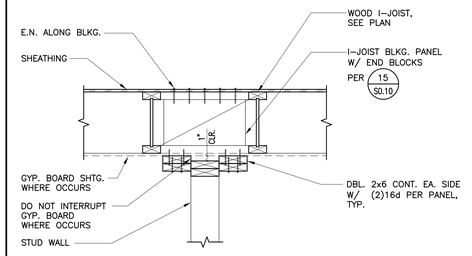


PERPENDICULAR TO JOISTS – EXPOSED CLG. (D)

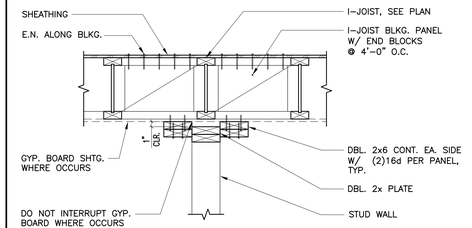
W302–0 SCALE: NO SCALE

WOOD PARTITION TOP SUPPORT | 7

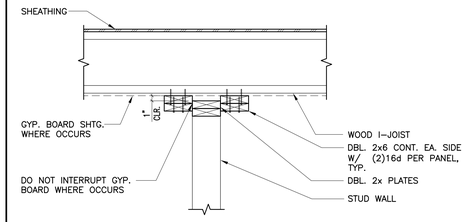
8



PARALLEL TO JOISTS



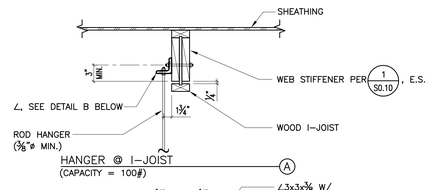
PARALLEL TO JOISTS



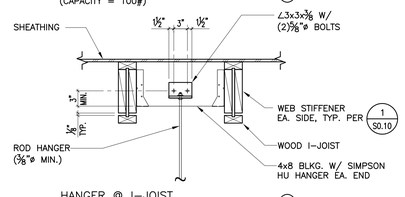
PERPENDICULAR TO JOISTS
(NON–BEARING, AT WOOD I–JOIST)

W502–0 SCALE: 1"=1'–0"

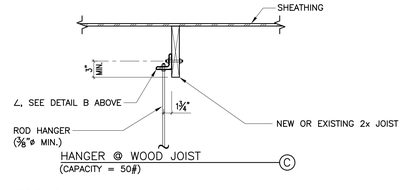
PARTITION TOP SUPPORT | 2



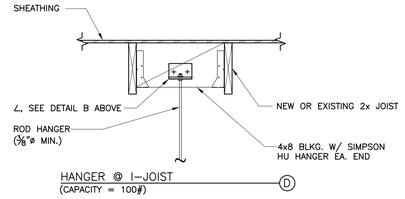
HANGER @ I–JOIST (CAPACITY = 100#) (A)



HANGER @ I–JOIST (CAPACITY = 250#) (B)



HANGER @ WOOD JOIST (CAPACITY = 50#) (C)



HANGER @ I–JOIST (CAPACITY = 100#) (D)

W609–0 SCALE: NO SCALE

ROD HANGER AT WOOD FRAMING | 4

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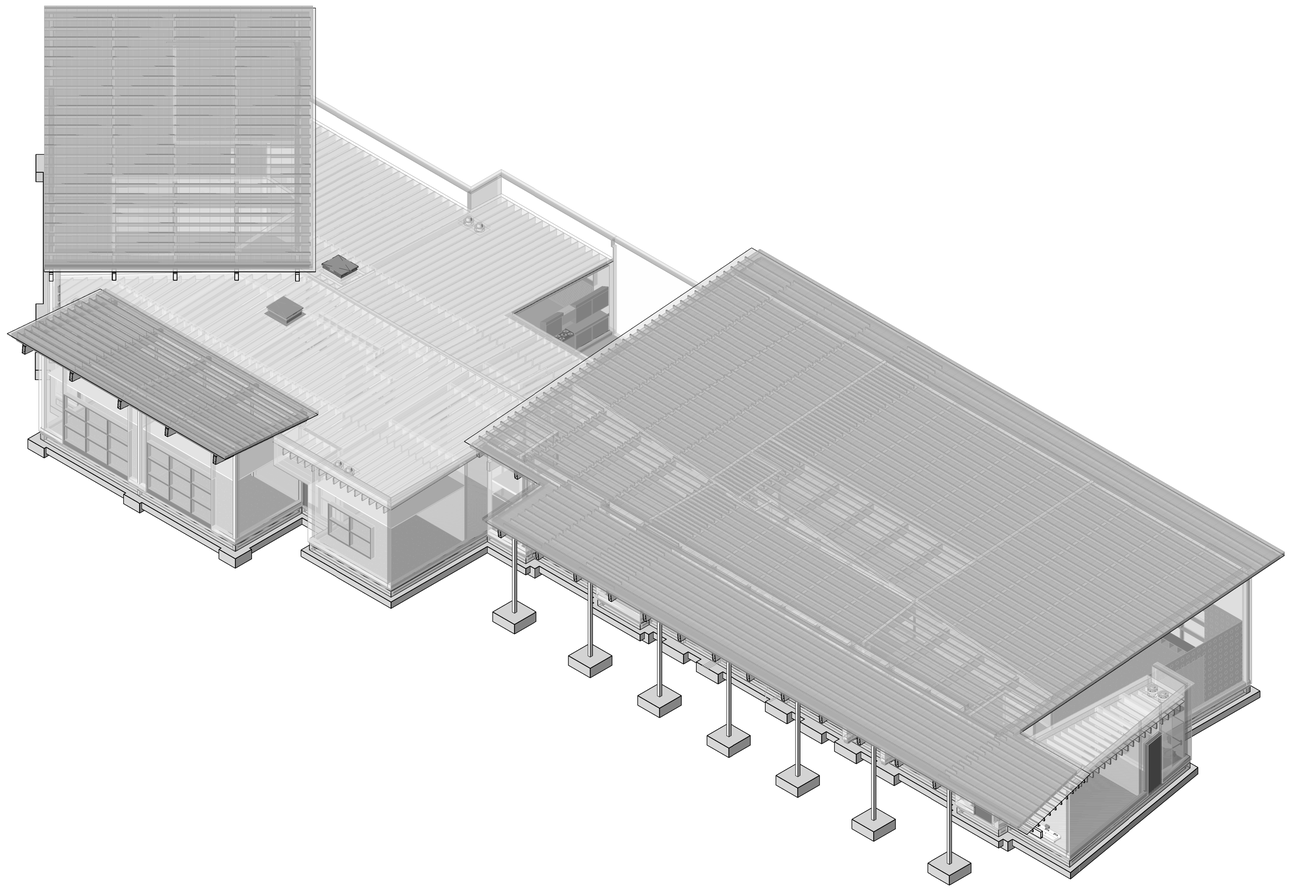
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TYPICAL
WOOD & WOOD I-JOIST DETAILS

NO. DATE ISSUE

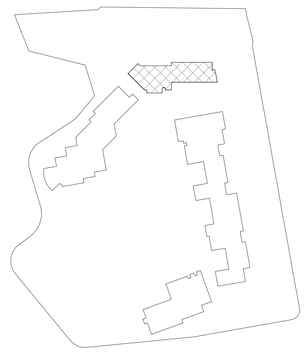
PROJECT NO: 19009
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DRAWING
S0.11



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DEL MAR UNION SCHOOL DISTRICT
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Exp. 9-30-21
STRUCTURAL
STATE OF CALIFORNIA

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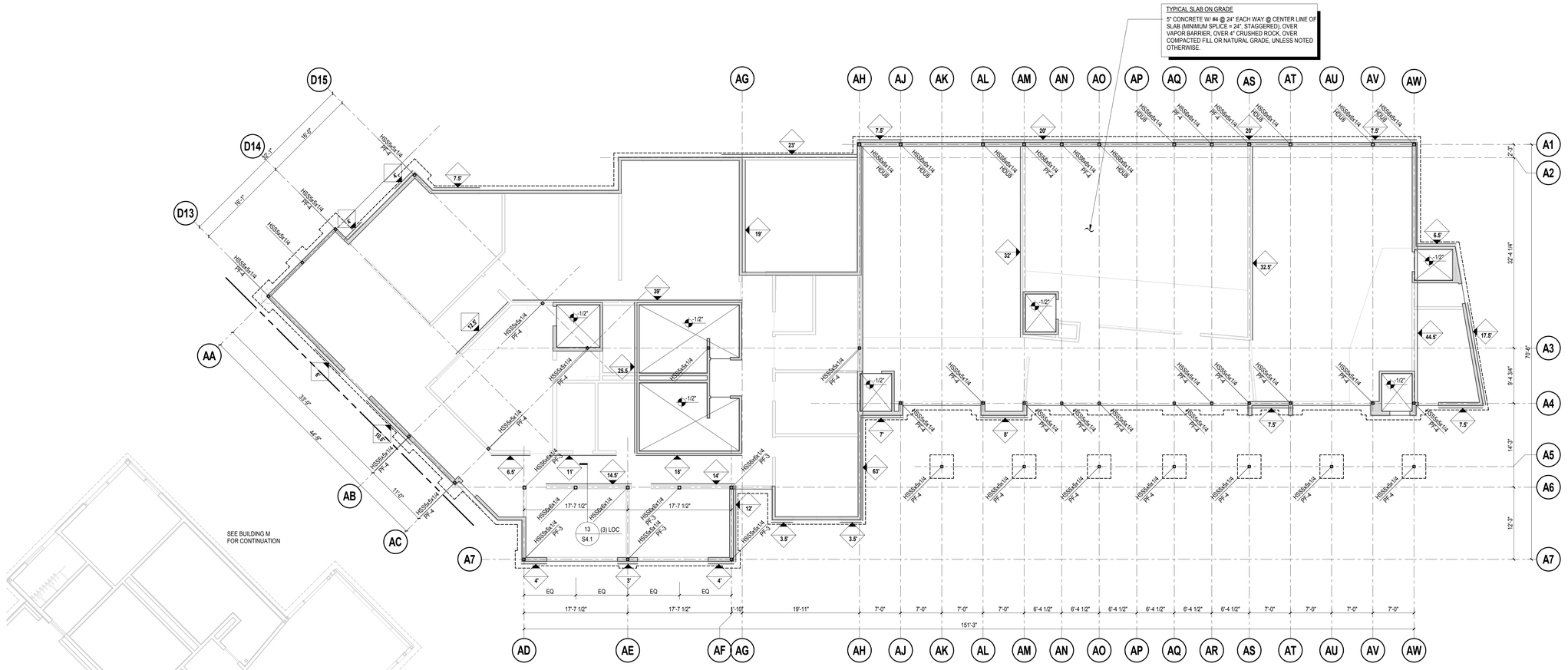
3D VIEW

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/20/2020

DRAWING
SA-1.0

2/14/2020 11:28:12 AM BIM 360://19009-00 Del Mar Heights ES\STRUCT-KNA-DMHS-BLDG A.rvt



FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

FOUNDATION PLAN NOTES

1. SEE SHEETS S0-0.1 THROUGH S1-5.1 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. SEE SPECIFICATIONS FOR ALL SITE AND SUBGRADE PREPARATIONS.
3. SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS FOR FINISH FLOOR ELEVATIONS.
4. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR ALL EXTERIOR CONCRETE PAVING, SLABS, BASES, CURBS, SITE WALLS, ETC.
5. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
6. SEE PLANS AND ARCHITECTURAL DRAWINGS FOR DEPRESSIONS AND/OR SLOPES IN CONCRETE SLABS.
7. ALL DIMENSIONS SHOWN ARE FROM FACE OF STUD, CENTER LINE OF COLUMN, OR CENTER LINE OF WALL UNLESS NOTED OTHERWISE. ALL COLUMNS ARE CENTERED IN STUD WALL, UNLESS NOTED OTHERWISE.
8. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.
9. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF INTERIOR NON-BEARING PARTITIONS. INTERIOR NON-BEARING PARTITION WALLS THAT DO NOT REQUIRE CONCRETE CURBS ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
10. SEE ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND KITCHEN DRAWINGS FOR ADDITIONAL EMBEDDED ITEMS AND SLAB PENETRATIONS.
11. ALL WALLS SHOWN WITH PLYWOOD SHEAR PANELS SHALL BE CONTINUOUSLY SHEATHED FOR THE FULL LENGTH OF THE WALL WITH THE SAME SHEATHING AS INDICATED. ALL EXTERIOR WALLS SHALL HAVE TYPE A PLYWOOD SHEATHING APPLIED TO THE OUTSIDE FACE PER DETAIL , UNLESS NOTED OTHERWISE.
12. FOR TYPICAL PIPE CHASE IN CONCRETE STEM WALL, SEE DETAIL .
13. FOR TYPICAL SLAB JOINTS, SEE DETAIL .

LEGEND

HSS5x0.375 PF-3 : INDICATES STEEL COLUMN SIZE. SEE DETAIL FOR STEEL COLUMN BASE PLATE, U.N.O.

: INDICATES CONCRETE FOOTING. SEE DETAIL FOR ADDITIONAL INFORMATION.

(-1'-0") : INDICATES DEPTH OF TOP OF FOOTING BELOW FINISH FLOOR.

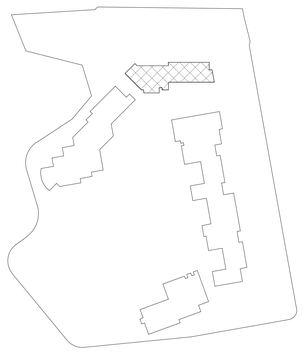
6' : INDICATES PLYWOOD SHEAR WALL TYPE PER .

: INDICATES LENGTH OF WALL USED FOR DESIGN. ACTUAL LENGTH OF WALL MAY EXCEED, BUT SHALL NOT BE LESS THAN THE LENGTH SHOWN.

HDUB : INDICATES SIMPSON HOLDOWN ANCHOR. SEE DETAIL FOR ADDITIONAL INFORMATION.

: INDICATES CONCRETE CURB. SEE PLANS AND DETAIL FOR ADDITIONAL INFORMATION.

: INDICATES STEP IN CONTINUOUS FOOTING. SEE DETAILS FOR ADDITIONAL INFORMATION. STEP CONTINUOUS FOOTING TO MATCH BOTTOM OF LOWEST ADJACENT FOOTING ELEVATION



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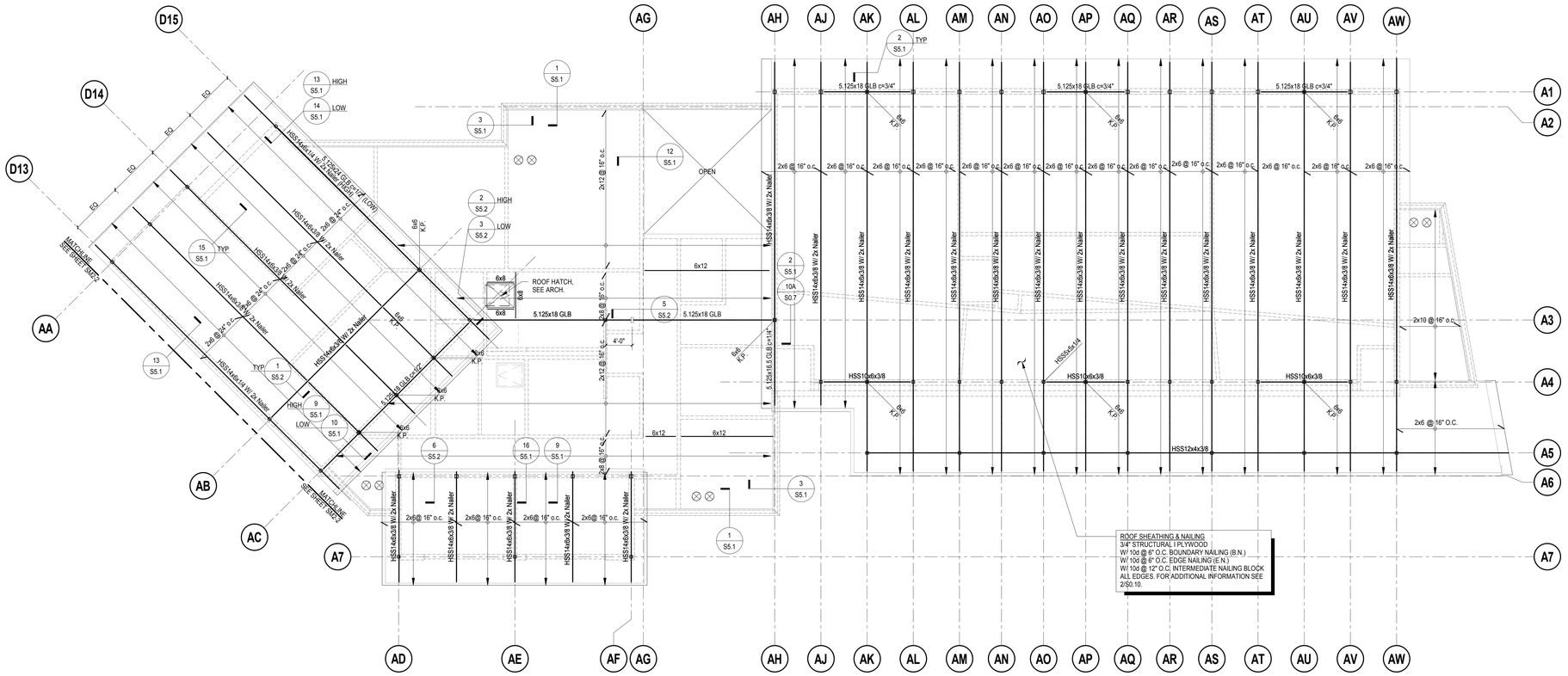
BUILDING A
FOUNDATION PLAN

NO.	DATE	ISSUE

PROJECT NO: 19009
DATE: 02/20/2020

DRAWING
SA-1.1

2/14/2020 11:28:14 AM BIM 360://19009-00 Del Mar Heights ES\STRUCT-KNA-DMHS-BLDG A.rvt



ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

BIM 360://19009-00 Del Mar Heights ES\STRUCT-KNA-DMHS-BLDG A.rvt

2/14/2020 11:28:16 AM

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ROOF FRAMING PLAN NOTES

1. SEE SHEETS S0-0.1 THROUGH S1-5.1 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND TOP OF WALL/PARAPET ELEVATIONS.
3. SEE ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF ROOF OPENINGS NOT SHOWN ON ROOF FRAMING PLANS. SEE DETAILS FOR TYPICAL OPENINGS, UNLESS NOTED OTHERWISE.
4. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.
5. PROVIDE 2" BY FULL DEPTH SOLID BLOCKING AT 8'-0" MAXIMUM FOR ROOF JOISTS OR RAFTERS MORE THAN 8" IN DEPTH. FOR ADDITIONAL INFORMATION SEE DETAIL .
6. ALL LINES AND/OR MEMBERS INDICATED AS "STRUT" SHALL RECEIVE (2) ROWS OF BOUNDARY NAILING (B.N.), STAGGERED.
7. "MU" DENOTES MECHANICAL UNIT. MAXIMUM ALLOWABLE WEIGHT IS SHOWN. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR EXACT SIZE AND WEIGHT OF MECHANICAL UNITS. FOR TYPICAL FRAMING AT MECHANICAL UNITS, SEE DETAILS .
8. SAWN LUMBER HANGERS SHALL BE SIMPSON B (LB @ 2X FRMG) HANGERS, UNLESS NOTED OTHERWISE.
9. I-JOIST HANGERS SHALL BE SIMPSON MIT HANGERS, UNLESS NOTED OTHERWISE.
10. WHERE TOP PLATES ARE INTERRUPTED BY A STEEL COLUMN, PROVIDE TIE PLATE CONNECTION PER DETAIL , UNLESS NOTED OTHERWISE.

LEGEND

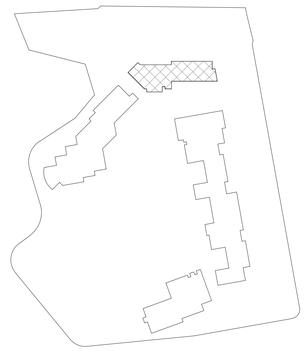
: INDICATES WOOD HEADER OVER OPENING BELOW. SEE DETAIL FOR SIZE & FRAMING UNLESS NOTED OTHERWISE ON PLAN.

: INDICATES SPAN OF JOISTS.

: INDICATES EXTENT OF JOISTS.

c=1 1/2" : INDICATES AMOUNT OF CAMBER IN GLB. STANDARD CAMBER (RADIUS= 3500 FT.) REQUIRED WHERE NONE SHOWN.

C : INDICATES TOP PLATE SPLICE. SEE DETAILS AND PROVIDE TOP PLATE SPLICE PER DETAIL , UNLESS NOTED OTHERWISE.



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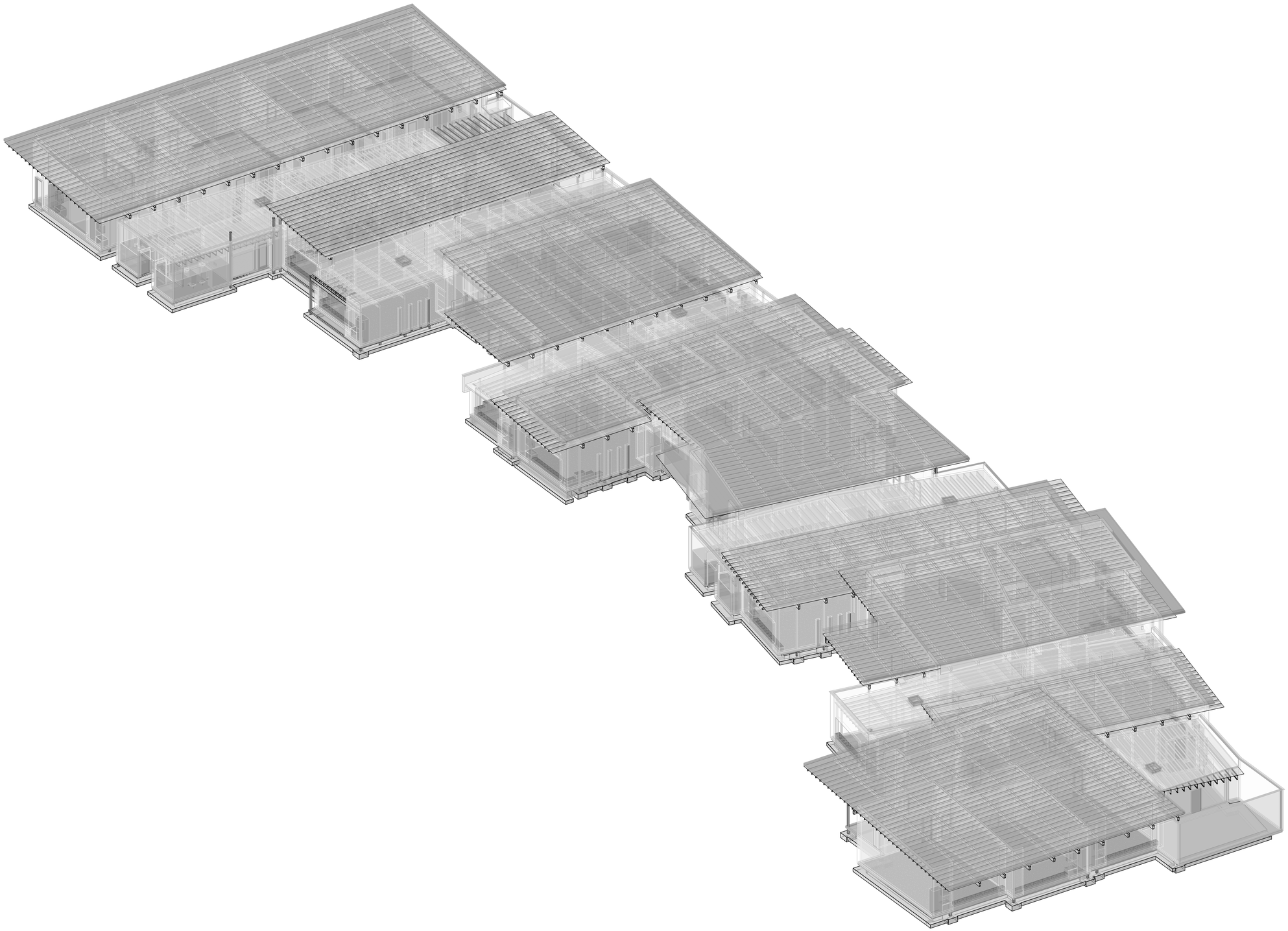
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BUILDING A
ROOF FRAMING PLAN

NO. DATE ISSUE

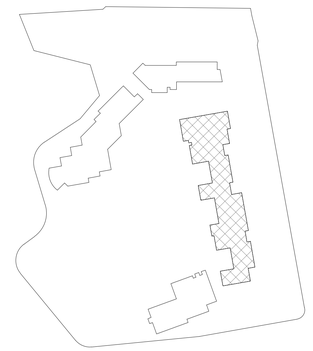
PROJECT NO: 19009
DATE: 02/20/2020

DRAWING
SA-2.1



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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL



CONSULTANT

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9931 Muirlands Boulevard, Irvine, CA 92618
Tel (949) 462-3200 • Fax (949) 462-3201
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REGISTERED PROFESSIONAL ENGINEER
LEMAY R. KAPITZKE
No. 2795
Exp. 9-30-21
STRUCTURAL
STATE OF CALIFORNIA

KNA JOB No.: 323.080

BakerNowicki design studio
731 Ninth Avenue, Suite A, San Diego, California 92101
619.795.2450
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3D VIEW

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/20/2020

DRAWING
SC-1.0

2/14/2020 11:31:31 AM BIM 360://19009-00 Del Mar Heights ES/STRUCT-KNA-DMHS-BLDG C.rvt



OVERALL FOUNDATION PLAN

SCALE: 1/16" = 1'-0"

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

FOUNDATION PLAN NOTES

1. SEE SHEETS S0-0.1 THROUGH S1-5.1 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. SEE SPECIFICATIONS FOR ALL SITE AND SUBGRADE PREPARATIONS.
3. SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS FOR FINISH FLOOR ELEVATIONS.
4. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR ALL EXTERIOR CONCRETE PAVING, SLABS, BASES, CURBS, SITE WALLS, ETC.
5. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
6. SEE PLANS AND ARCHITECTURAL DRAWINGS FOR DEPRESSIONS AND/OR SLOPES IN CONCRETE SLABS.
7. ALL DIMENSIONS SHOWN ARE FROM FACE OF STUD, CENTER LINE OF COLUMN, OR CENTER LINE OF WALL, UNLESS NOTED OTHERWISE. ALL COLUMNS ARE CENTERED IN STUD WALL, UNLESS NOTED OTHERWISE.
8. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.
9. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF INTERIOR NON-BEARING PARTITIONS. INTERIOR NON-BEARING PARTITION WALLS THAT DO NOT REQUIRE CONCRETE CURBS ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
10. SEE ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND KITCHEN DRAWINGS FOR ADDITIONAL EMBEDDED ITEMS AND SLAB PENETRATIONS.
11. ALL WALLS SHOWN WITH PLYWOOD SHEAR PANELS SHALL BE CONTINUOUSLY SHEATHED FOR THE FULL LENGTH OF THE WALL WITH THE SAME SHEATHING AS INDICATED. ALL EXTERIOR WALLS SHALL HAVE TYPE A PLYWOOD SHEATHING APPLIED TO THE OUTSIDE FACE PER DETAIL , UNLESS NOTED OTHERWISE.
12. FOR TYPICAL PIPE CHASE IN CONCRETE STEM WALL, SEE DETAIL .
13. FOR TYPICAL SLAB JOINTS, SEE DETAIL .

LEGEND

HSS5x0.375 PF-3 : INDICATES STEEL COLUMN SIZE. SEE DETAIL FOR STEEL COLUMN BASE PLATE, U.N.O.

: INDICATES CONCRETE FOOTING. SEE DETAIL FOR ADDITIONAL INFORMATION.

(-1'-0") : INDICATES DEPTH OF TOP OF FOOTING BELOW FINISH FLOOR.

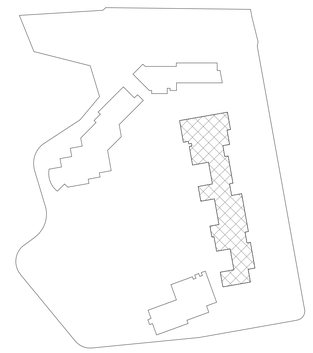
: INDICATES PLYWOOD SHEAR WALL TYPE PER .

: INDICATES LENGTH OF WALL USED FOR DESIGN. ACTUAL LENGTH OF WALL MAY EXCEED, BUT SHALL NOT BE LESS THAN THE LENGTH SHOWN.

HDU8 : INDICATES SIMPSON HOLDOWN ANCHOR. SEE DETAIL FOR ADDITIONAL INFORMATION.

: INDICATES CONCRETE CURB. SEE PLANS AND DETAIL FOR ADDITIONAL INFORMATION.

: INDICATES STEP IN CONTINUOUS FOOTING. SEE DETAILS FOR ADDITIONAL INFORMATION. STEP CONTINUOUS FOOTING TO MATCH BOTTOM OF LOWEST ADJACENT FOOTING ELEVATION



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BUILDING C

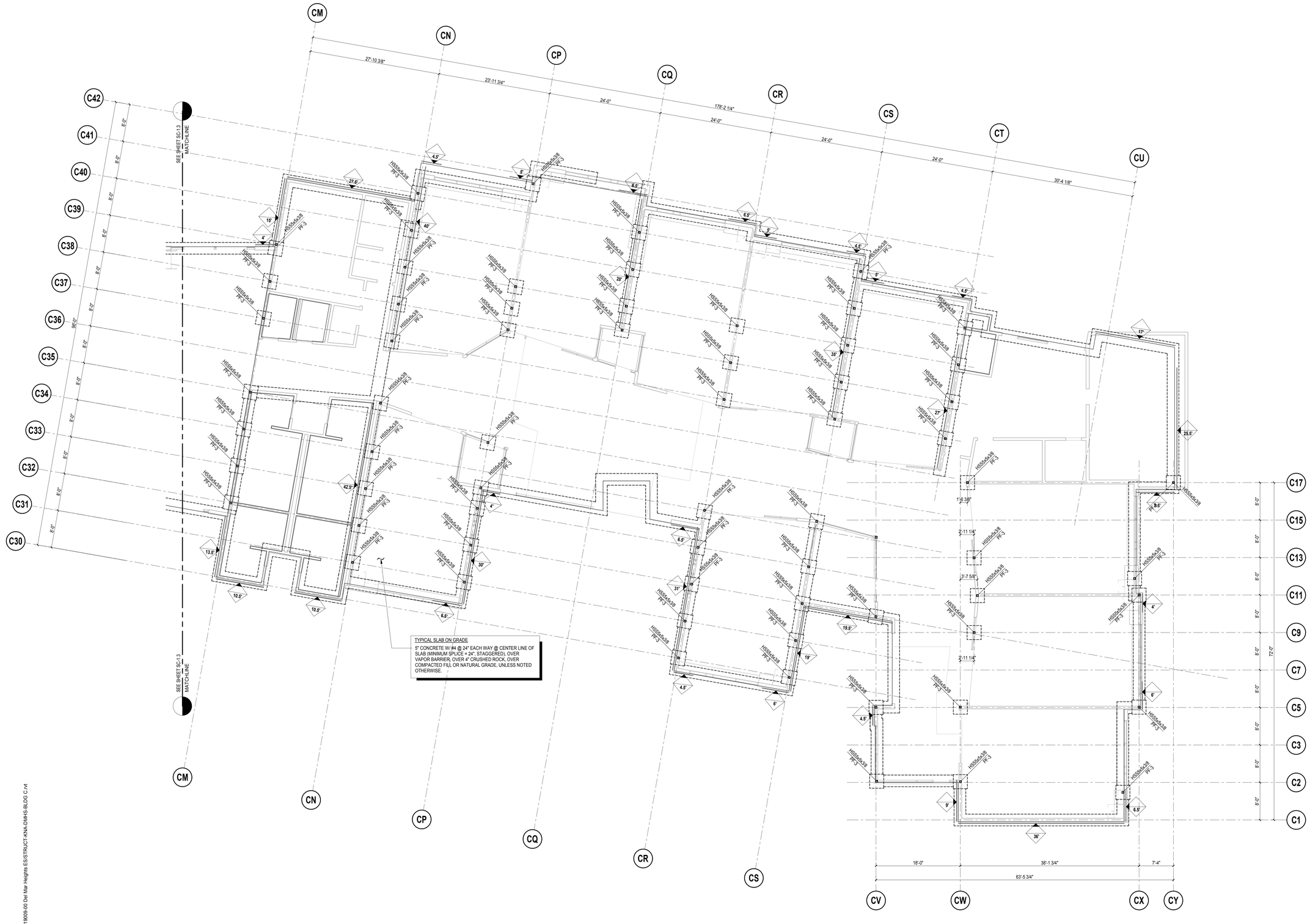
OVERALL FOUNDATION PLAN

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 02/20/2020

DRAWING
SC-1.1

2/14/2020 11:31:33 AM BIM 360://19009-00 Del Mar Heights ES/STRUCT-KNA-DMHS-BLDG C.rvt



FOUNDATION PLAN EAST

SCALE: 1/8" = 1'-0"

BIM 360://19009-00 Del Mar Heights ES/STRUCT-KNA-DMHS-BLDG C.rvt

2/14/2020 11:31:35 AM

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DEL MAR HEIGHTS SCHOOL

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LEGEND

HSS6x6x3/8 PF-3 : INDICATES STEEL COLUMN SIZE. SEE DETAIL FOR STEEL COLUMN BASE PLATE, U.N.O.

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(-1'-0") : INDICATES DEPTH OF TOP OF FOOTING BELOW FINISH FLOOR.

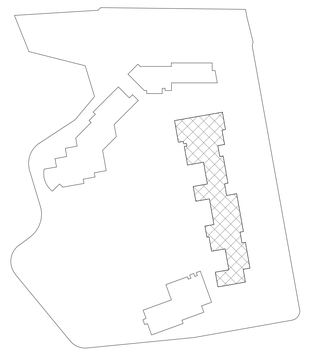
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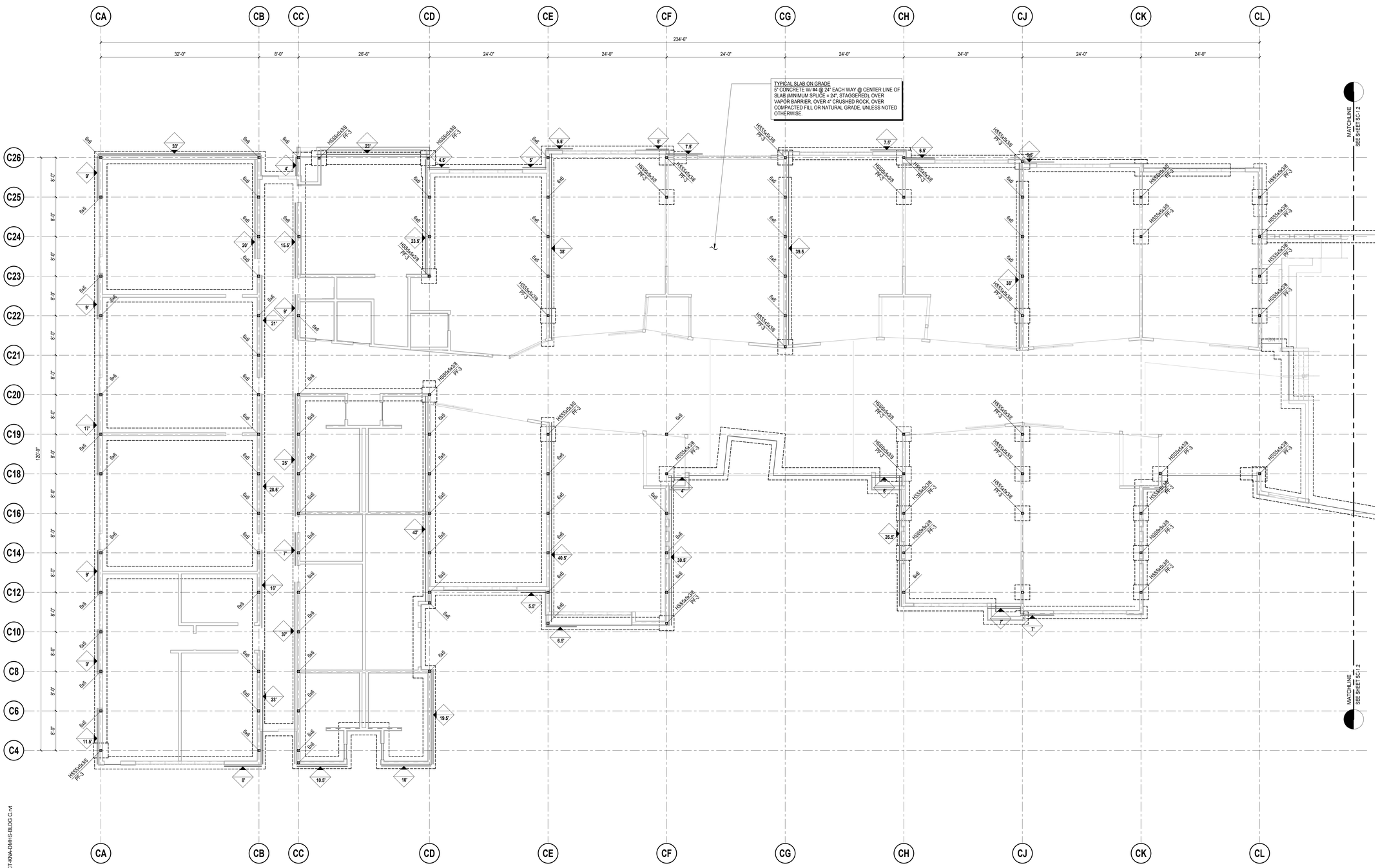
BUILDING C

FOUNDATION PLAN EAST

NO.	DATE	ISSUE

PROJECT NO: 19009
DATE: 02/20/2020

DRAWING
SC-1.2



FOUNDATION PLAN WEST

SCALE: 1/8" = 1'-0"

BIM 360://19009-00 Del Mar Heights ES\STRUCT-KNA-DMHS-BLDG C.rvt

2/14/2020 11:31:38 AM

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DEL MAR HEIGHTS SCHOOL

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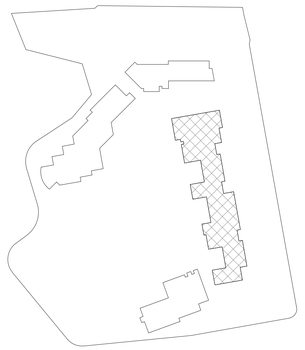
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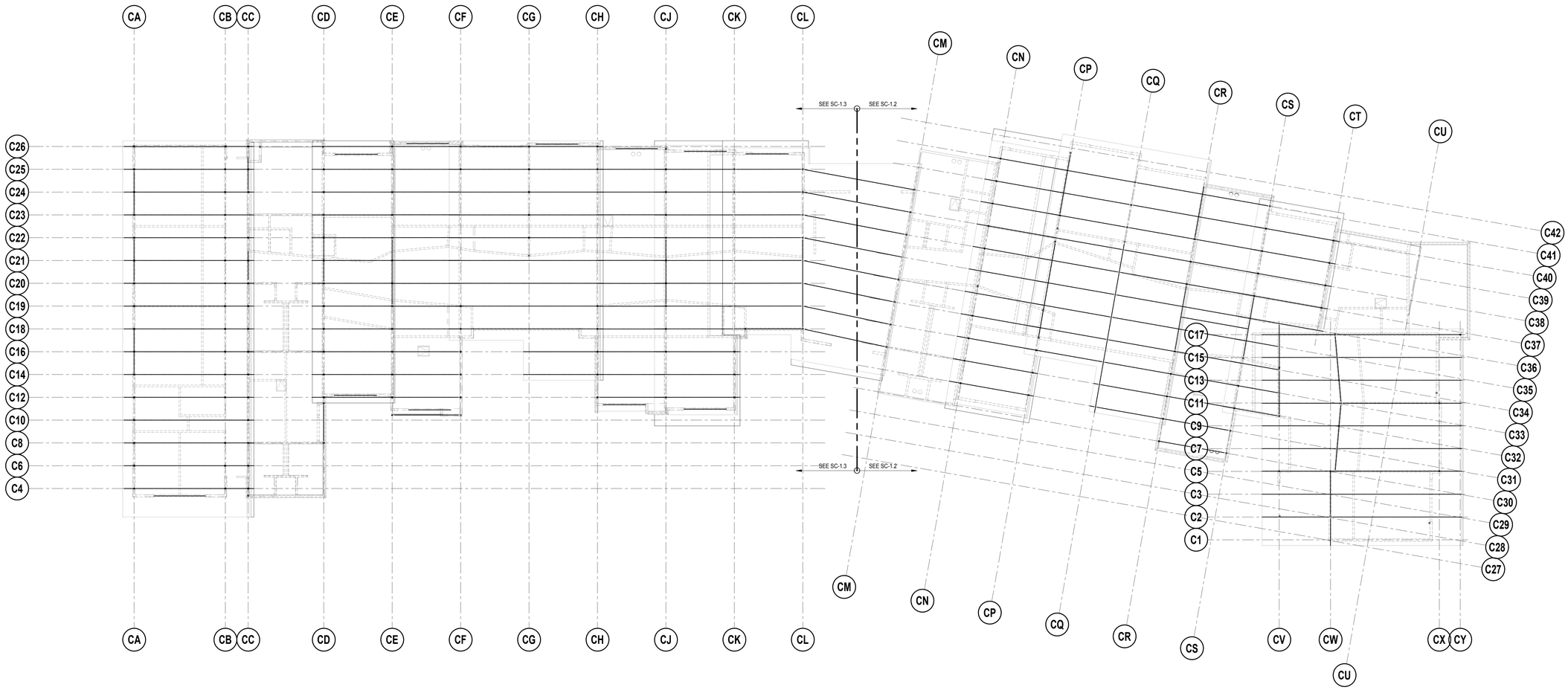
BUILDING C

FOUNDATION PLAN WEST

NO.	DATE	ISSUE

PROJECT NO: 19009
DATE: 02/20/2020

DRAWING
SC-1.3



OVERALL ROOF FRAMING PLAN

SCALE: 1/16" = 1'-0"

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

ROOF FRAMING PLAN NOTES

1. SEE SHEETS S0-0.1 THROUGH S1-5.1 FOR GENERAL NOTES AND TYPICAL DETAILS.
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3. SEE ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF ROOF OPENINGS NOT SHOWN ON ROOF FRAMING PLANS. SEE DETAILS FOR TYPICAL OPENINGS, UNLESS NOTED OTHERWISE.
4. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.
5. PROVIDE 2" BY FULL DEPTH SOLID BLOCKING AT 8'-0" MAXIMUM FOR ROOF JOISTS OR RAFTERS MORE THAN 8" IN DEPTH. FOR ADDITIONAL INFORMATION SEE DETAIL .
6. ALL LINES AND/OR MEMBERS INDICATED AS "STRUT" SHALL RECEIVE (2) ROWS OF BOUNDARY NAILING (B.N.), STAGGERED.
7. "MU" DENOTES MECHANICAL UNIT. MAXIMUM ALLOWABLE WEIGHT IS SHOWN. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR EXACT SIZE AND WEIGHT OF MECHANICAL UNITS. FOR TYPICAL FRAMING AT MECHANICAL UNITS, SEE DETAILS .
8. SAWN LUMBER HANGERS SHALL BE SIMPSON B (LB @ 2X FRMG) HANGERS, UNLESS NOTED OTHERWISE.
9. I-JOIST HANGERS SHALL BE SIMPSON MIT HANGERS, UNLESS NOTED OTHERWISE.
10. WHERE TOP PLATES ARE INTERRUPTED BY A STEEL COLUMN, PROVIDE TIE PLATE CONNECTION PER DETAIL , UNLESS NOTED OTHERWISE.

LEGEND

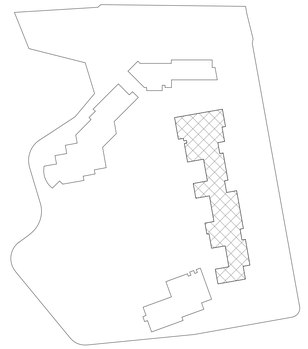
: INDICATES WOOD HEADER OVER OPENING BELOW. SEE DETAIL FOR SIZE & FRAMING UNLESS NOTED OTHERWISE ON PLAN.

: INDICATES SPAN OF JOISTS.

: INDICATES EXTENT OF JOISTS.

c=1 1/2" : INDICATES AMOUNT OF CAMBER IN GLB. STANDARD CAMBER (RADIUS= 3500 FT.) REQUIRED WHERE NONE SHOWN.

C : INDICATES TOP PLATE SPLICE. SEE DETAILS AND . PROVIDE TOP PLATE SPLICE PER DETAIL , UNLESS NOTED OTHERWISE.



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BUILDING C

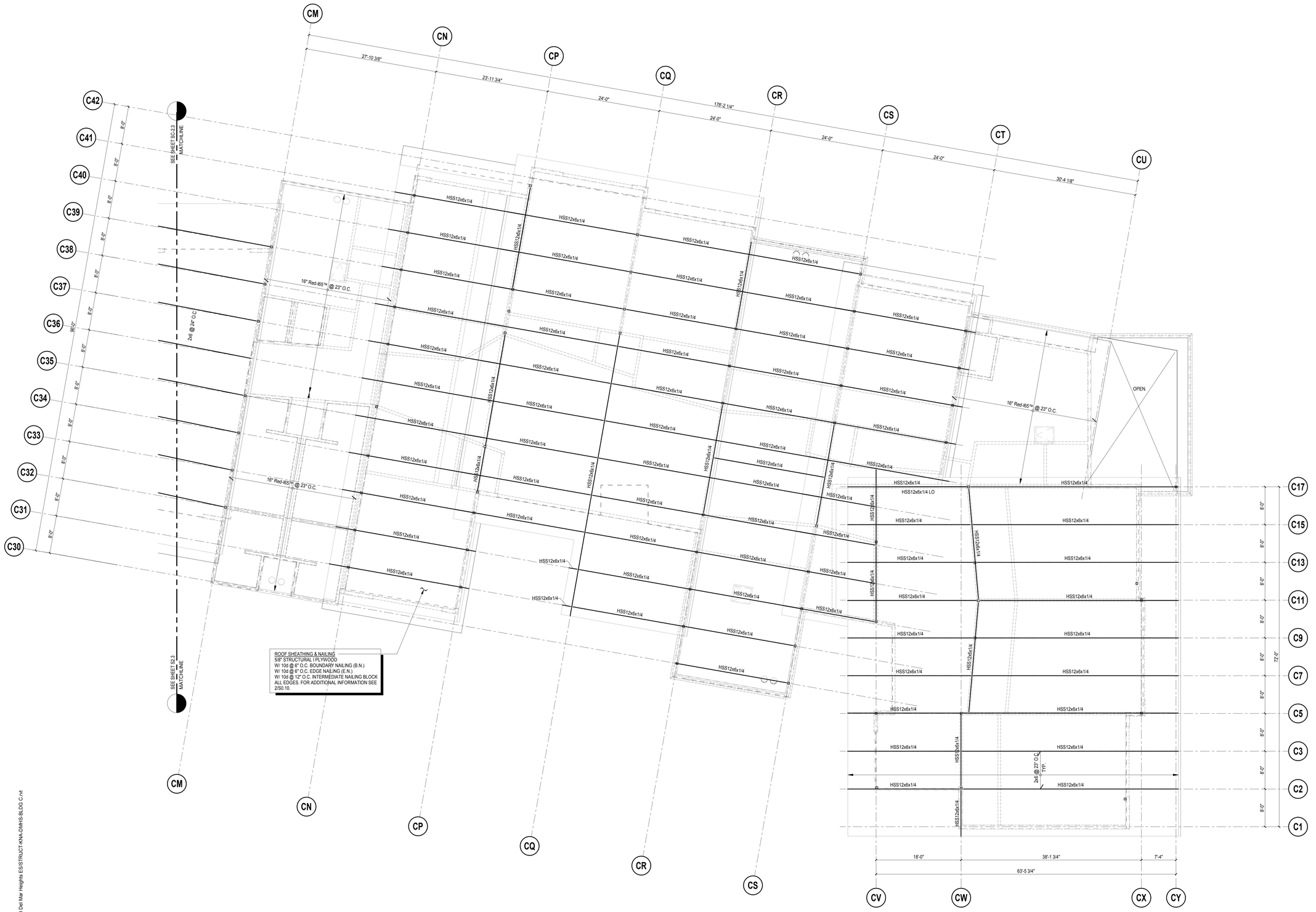
OVERALL ROOF FRAMING PLAN

NO.	DATE	ISSUE

PROJECT NO: 19009
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DRAWING
SC-2.1

2/14/2020 11:31:40 AM BIM 360://19009-00 Del Mar Heights ES/STRUCT-KNA-DMHS-BLDG C.rvt



ROOF FRAMING PLAN EAST

SCALE: 1/8" = 1'-0"

BIM 360://19009-00 Del Mar Heights ES\STRUCT-KNA-DMHS-BLDG C.rvt

2/14/2020 11:31:41 AM

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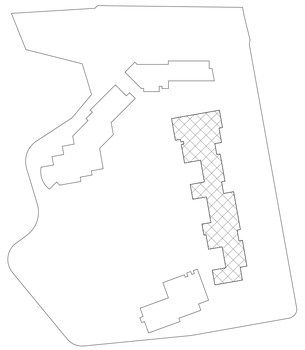
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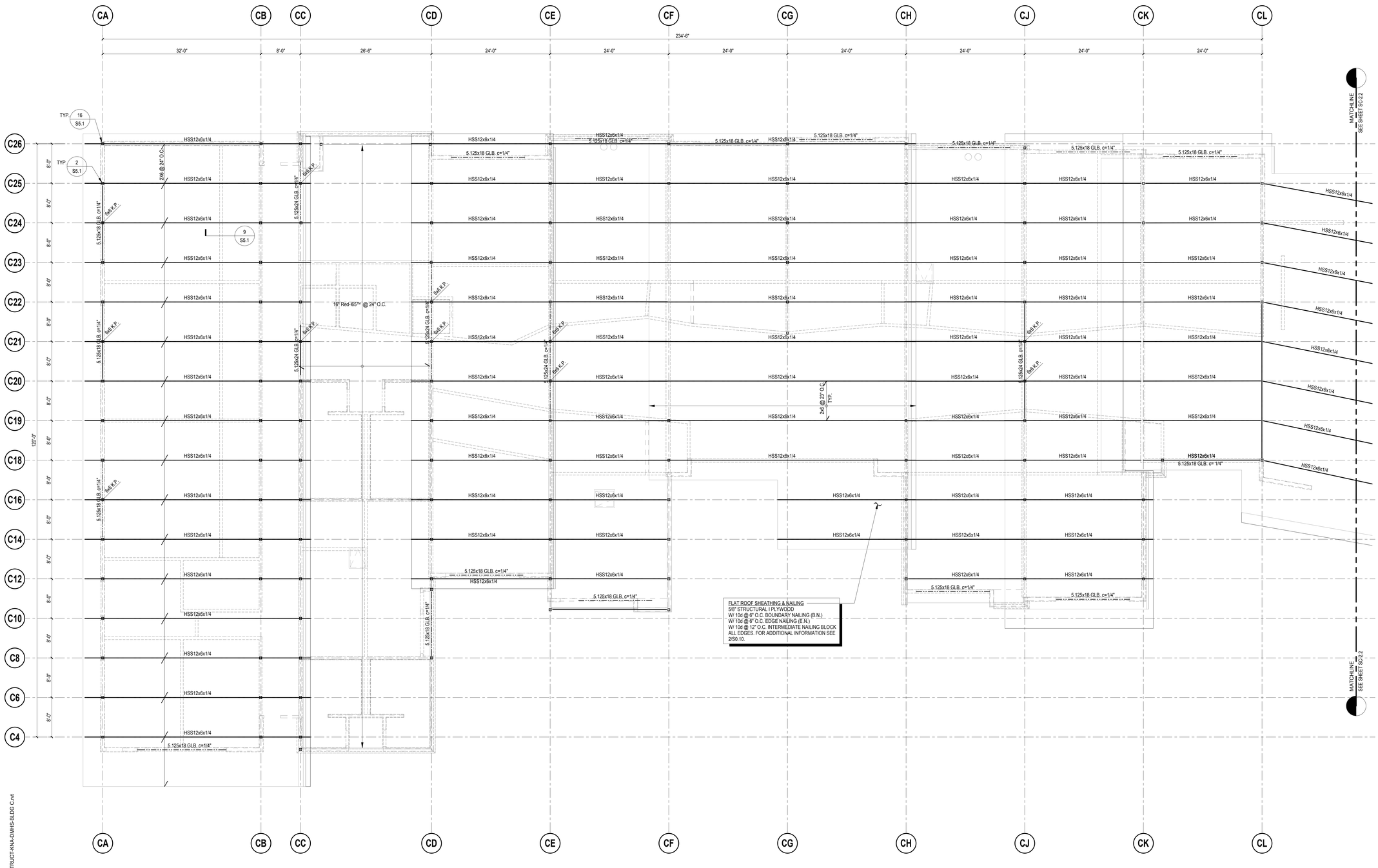
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BUILDING C
ROOF FRAMING PLAN EAST

NO. DATE ISSUE

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DATE: 02/20/2020

DRAWING
SC-2.2



ROOF FRAMING PLAN WEST

SCALE: 1/8" = 1'-0"

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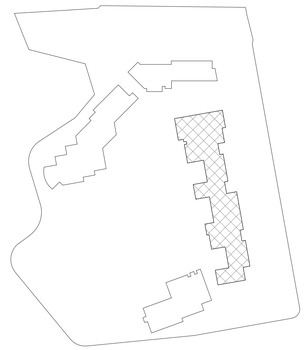
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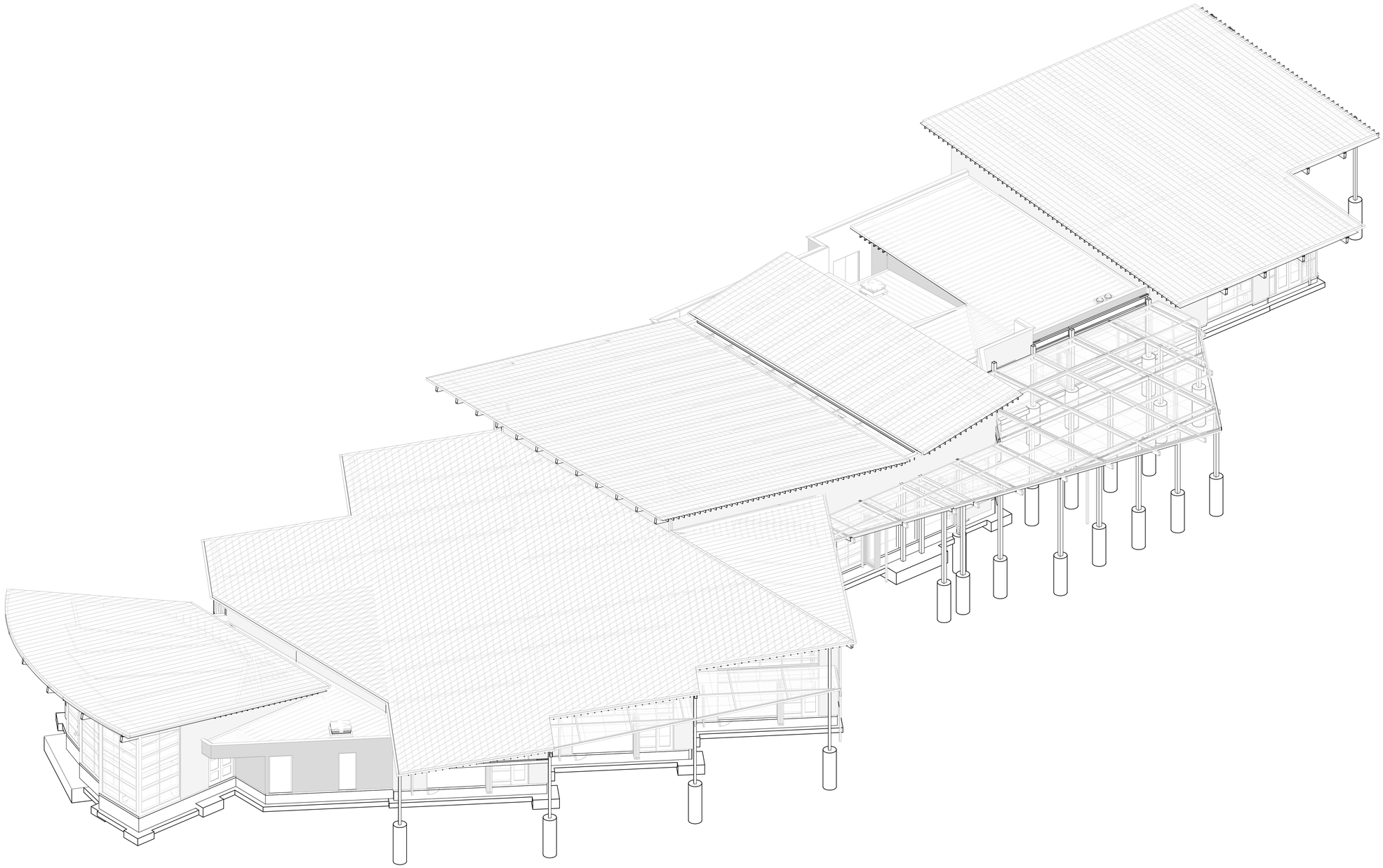
BUILDING C
ROOF FRAMING PLAN WEST

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DRAWING
SC-2.3

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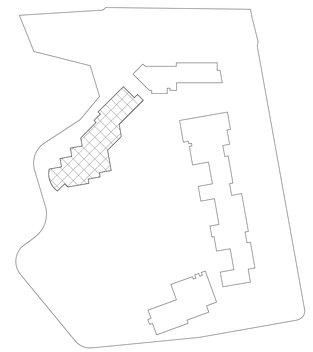


3D VIEW - A

SCALE:

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL



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No. 2795
Exp. 9-30-21
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KNA JOB No.: 323.080

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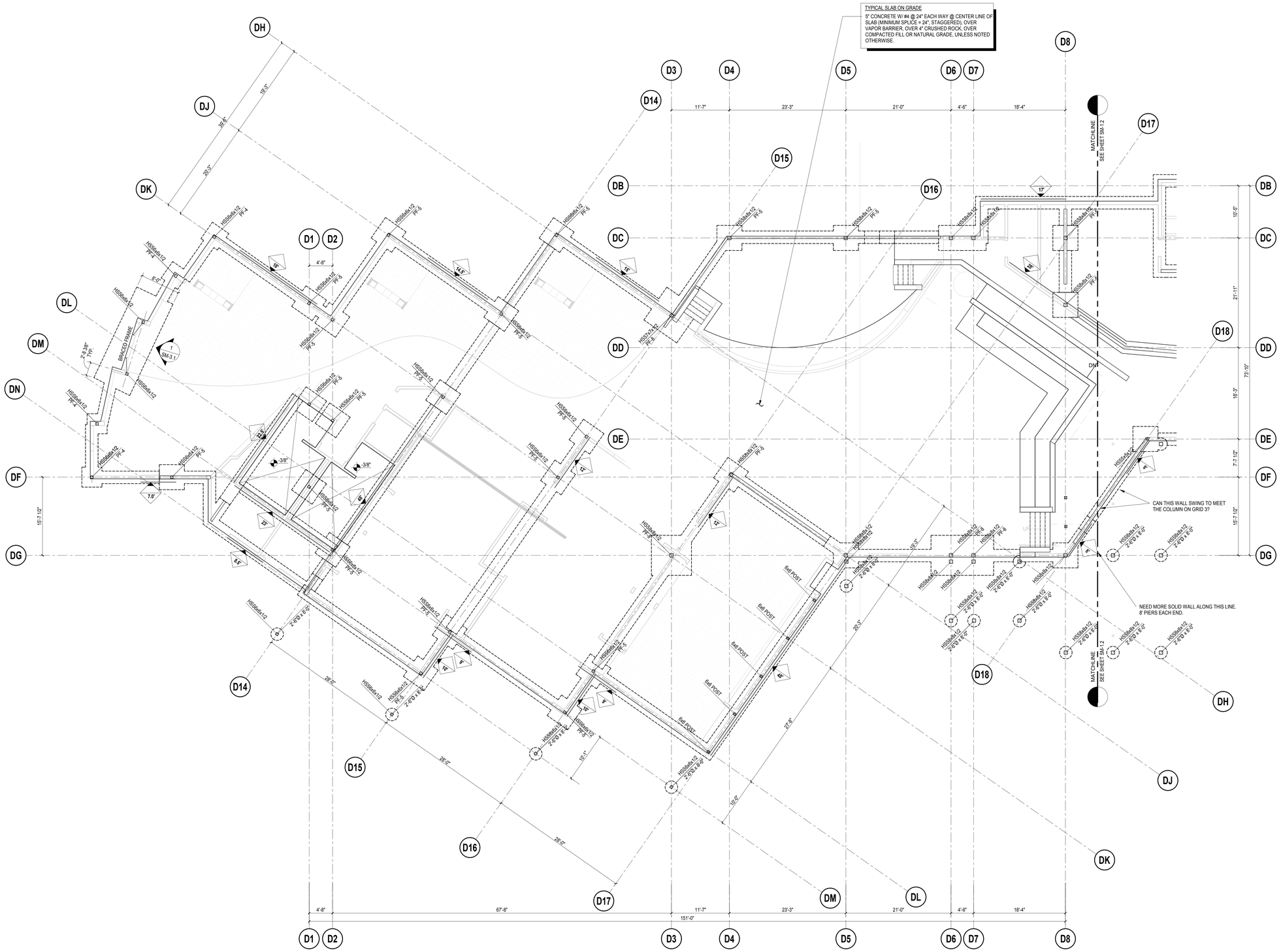
3D VIEW

NO.	DATE	ISSUE

PROJECT NO: 1-XX-XXX
DATE: 02/20/2020

DRAWING
SM-1.0

BIM 360://19009-00 Del Mar Heights ES/STRUCT-KNA-DMHS-BLDG M.rvt
2/14/2020 11:35:57 AM



FOUNDATION PLAN WEST

SCALE: 1/8" = 1'-0"

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

FOUNDATION PLAN NOTES

1. SEE SHEETS S0-0.1 THROUGH S1-5.1 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. SEE SPECIFICATIONS FOR ALL SITE AND SUBGRADE PREPARATIONS.
3. SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS FOR FINISH FLOOR ELEVATIONS.
4. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR ALL EXTERIOR CONCRETE PAVING, SLABS, BASES, CURBS, SITE WALLS, ETC.
5. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
6. SEE PLANS AND ARCHITECTURAL DRAWINGS FOR DEPRESSIONS AND/OR SLOPES IN CONCRETE SLABS.
7. ALL DIMENSIONS SHOWN ARE FROM FACE OF STUD, CENTER LINE OF COLUMN, OR CENTER LINE OF WALL, UNLESS NOTED OTHERWISE. ALL COLUMNS ARE CENTERED IN STUD WALL, UNLESS NOTED OTHERWISE.
8. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.
9. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF INTERIOR NON-BEARING PARTITIONS. INTERIOR NON-BEARING PARTITION WALLS THAT DO NOT REQUIRE CONCRETE CURBS ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
10. SEE ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND KITCHEN DRAWINGS FOR ADDITIONAL EMBEDDED ITEMS AND SLAB PENETRATIONS.
11. ALL WALLS SHOWN WITH PLYWOOD SHEAR PANELS SHALL BE CONTINUOUSLY SHEATHED FOR THE FULL LENGTH OF THE WALL WITH THE SAME SHEATHING AS INDICATED. ALL EXTERIOR WALLS SHALL HAVE TYPE A PLYWOOD SHEATHING APPLIED TO THE OUTSIDE FACE PER DETAIL , UNLESS NOTED OTHERWISE.
12. FOR TYPICAL PIPE CHASE IN CONCRETE STEM WALL, SEE DETAIL .
13. FOR TYPICAL SLAB JOINTS, SEE DETAIL .

LEGEND

HSS5x0.375 PF-3 : INDICATES STEEL COLUMN SIZE. SEE DETAIL FOR STEEL COLUMN BASE PLATE, U.N.O.

: INDICATES CONCRETE FOOTING. SEE DETAIL FOR ADDITIONAL INFORMATION.

(-1'-0") : INDICATES DEPTH OF TOP OF FOOTING BELOW FINISH FLOOR.

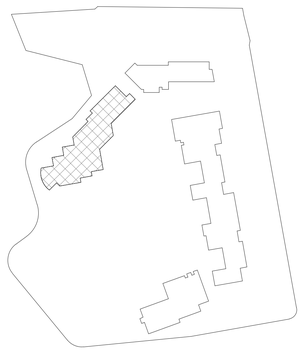
: INDICATES PLYWOOD SHEAR WALL TYPE PER .

: INDICATES LENGTH OF WALL USED FOR DESIGN. ACTUAL LENGTH OF WALL MAY EXCEED, BUT SHALL NOT BE LESS THAN THE LENGTH SHOWN.

HDU8 : INDICATES SIMPSON HOLDOWN ANCHOR. SEE DETAIL FOR ADDITIONAL INFORMATION.

: INDICATES CONCRETE CURB. SEE PLANS AND DETAIL FOR ADDITIONAL INFORMATION.

: INDICATES STEP IN CONTINUOUS FOOTING. SEE DETAILS FOR ADDITIONAL INFORMATION. STEP CONTINUOUS FOOTING TO MATCH BOTTOM OF LOWEST ADJACENT FOOTING ELEVATION



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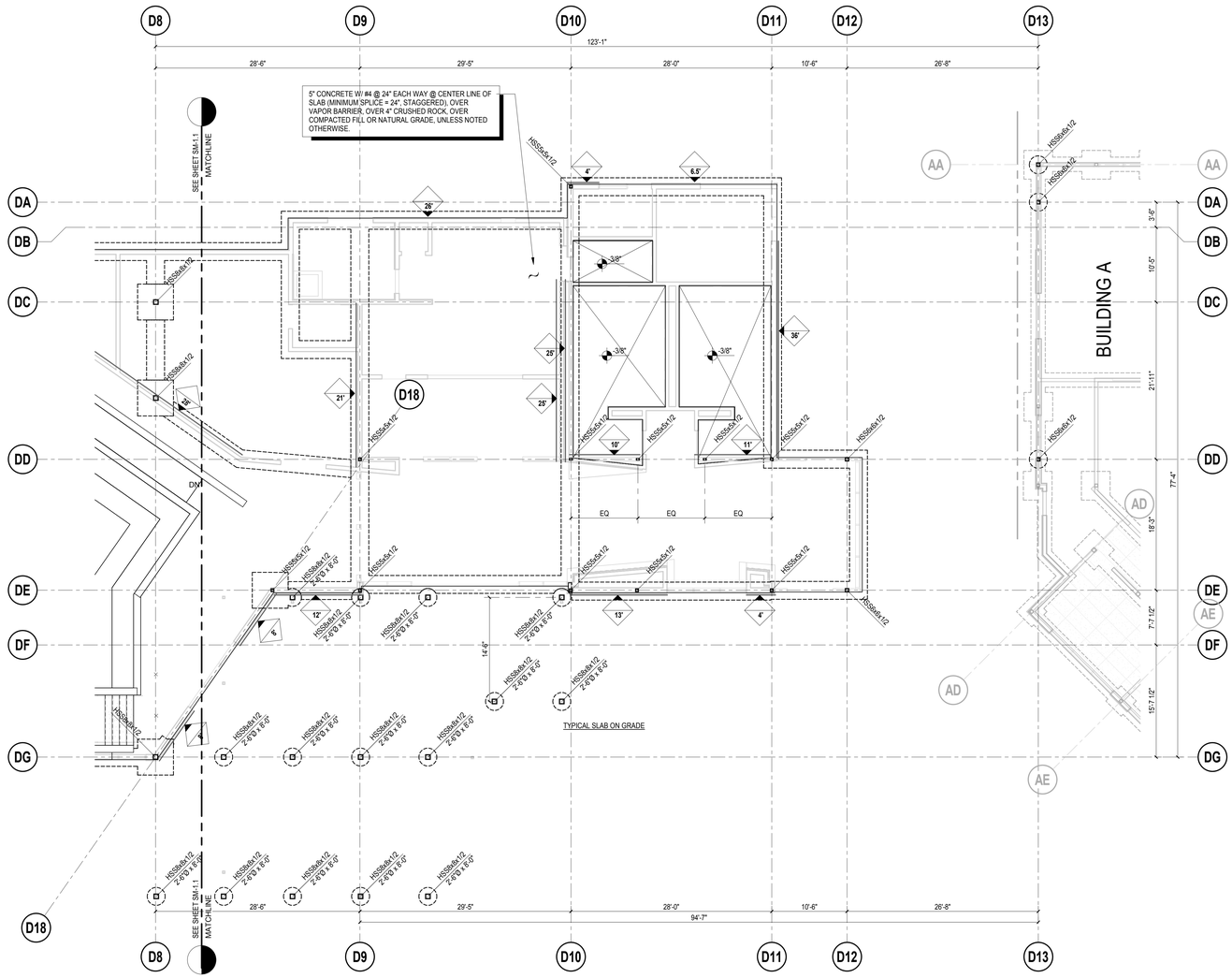
BUILDING M
FOUNDATION PLAN WEST

NO. DATE ISSUE

PROJECT NO: 1-XX-XXX
DATE: 02/20/2020

DRAWING
SM-1.1

BIM 360://19009-00 Del Mar Heights ES/STRUCT-KNA-DMHS-BLDG M.rvt
2/14/2020 11:35:59 AM



FOUNDATION PLAN EAST

SCALE: 1/8" = 1'-0"

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

FOUNDATION PLAN NOTES

1. SEE SHEETS S0-0.1 THROUGH S1-5.1 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. SEE SPECIFICATIONS FOR ALL SITE AND SUBGRADE PREPARATIONS.
3. SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS FOR FINISH FLOOR ELEVATIONS.
4. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR ALL EXTERIOR CONCRETE PAVING, SLABS, BASES, CURBS, SITE WALLS, ETC.
5. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
6. SEE PLANS AND ARCHITECTURAL DRAWINGS FOR DEPRESSIONS AND/OR SLOPES IN CONCRETE SLABS.
7. ALL DIMENSIONS SHOWN ARE FROM FACE OF STUD, CENTER LINE OF COLUMN, OR CENTER LINE OF WALL, UNLESS NOTED OTHERWISE. ALL COLUMNS ARE CENTERED IN STUD WALL, UNLESS NOTED OTHERWISE.
8. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.
9. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF INTERIOR NON-BEARING PARTITIONS. INTERIOR NON-BEARING PARTITION WALLS THAT DO NOT REQUIRE CONCRETE CURBS ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
10. SEE ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND KITCHEN DRAWINGS FOR ADDITIONAL EMBEDDED ITEMS AND SLAB PENETRATIONS.
11. ALL WALLS SHOWN WITH PLYWOOD SHEAR PANELS SHALL BE CONTINUOUSLY SHEATHED FOR THE FULL LENGTH OF THE WALL WITH THE SAME SHEATHING AS INDICATED. ALL EXTERIOR WALLS SHALL HAVE TYPE A PLYWOOD SHEATHING APPLIED TO THE OUTSIDE FACE PER DETAIL . UNLESS NOTED OTHERWISE.
12. FOR TYPICAL PIPE CHASE IN CONCRETE STEM WALL, SEE DETAIL .
13. FOR TYPICAL SLAB JOINTS, SEE DETAIL .

LEGEND

HSS5x0.375 / PF-3 : INDICATES STEEL COLUMN SIZE. SEE DETAIL FOR STEEL COLUMN BASE PLATE, U.N.O.

: INDICATES CONCRETE FOOTING. SEE DETAIL FOR ADDITIONAL INFORMATION.

(-1'-0") : INDICATES DEPTH OF TOP OF FOOTING BELOW FINISH FLOOR.

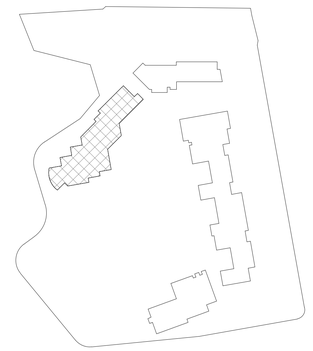
36" : INDICATES PLYWOOD SHEAR WALL TYPE PER .

: INDICATES LENGTH OF WALL USED FOR DESIGN. ACTUAL LENGTH OF WALL MAY EXCEED, BUT SHALL NOT BE LESS THAN THE LENGTH SHOWN.

HDU8 : INDICATES SIMPSON HOLDOWN ANCHOR. SEE DETAIL FOR ADDITIONAL INFORMATION.

: INDICATES CONCRETE CURB. SEE PLANS AND DETAIL FOR ADDITIONAL INFORMATION.

: INDICATES STEP IN CONTINUOUS FOOTING. SEE DETAILS FOR ADDITIONAL INFORMATION. STEP CONTINUOUS FOOTING TO MATCH BOTTOM OF LOWEST ADJACENT FOOTING ELEVATION



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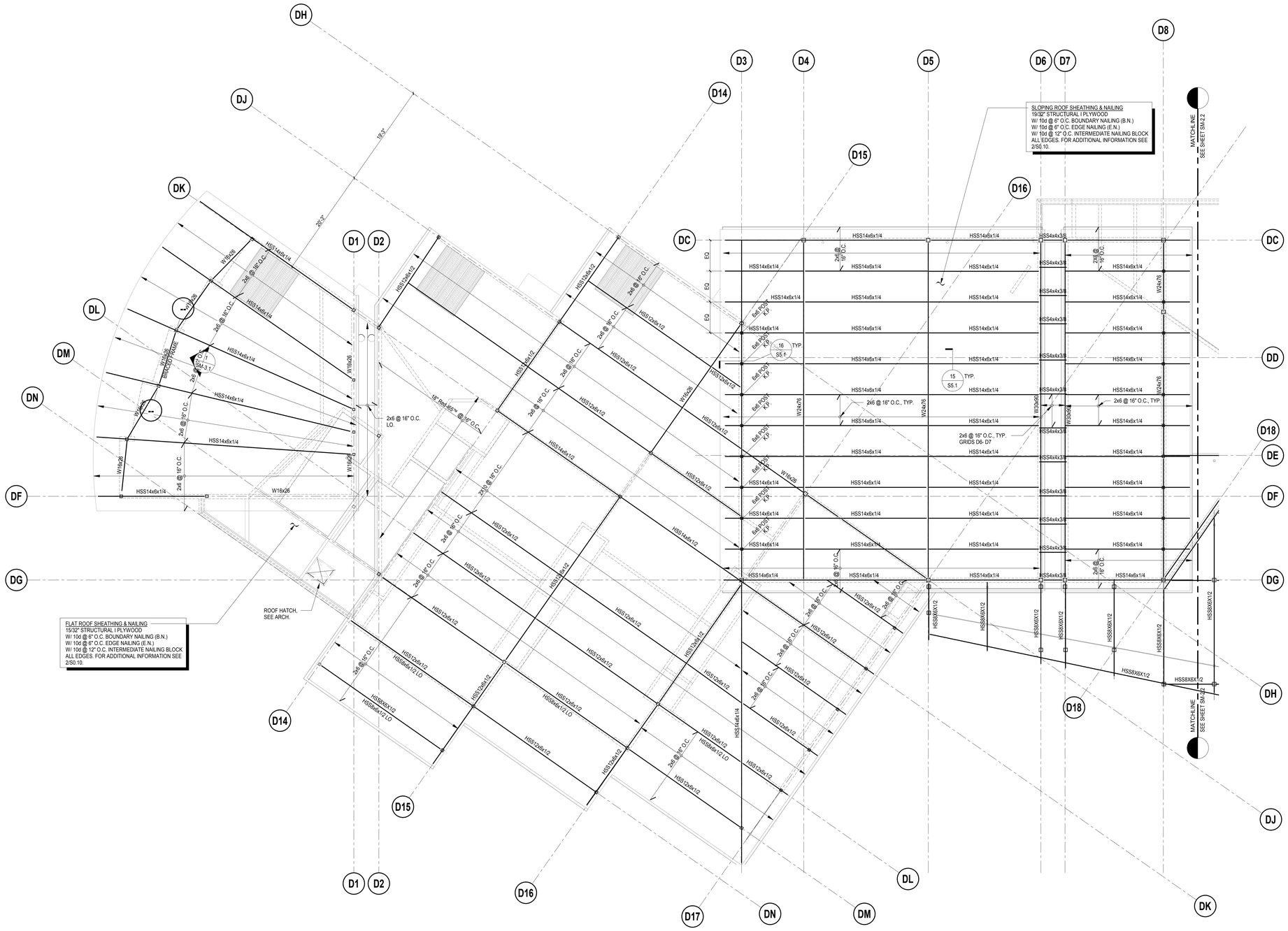
BUILDING M
FOUNDATION PLAN EAST

NO. DATE ISSUE

PROJECT NO: 1-XX-XXX
DATE: 02/20/2020

DRAWING
SM-1.2

2/14/2020 11:36:00 AM BIM 360://19009-00 Del Mar Heights ES/STRUCT-KNA-DMHS-BLDG M.rvt



ROOF FRAMING PLAN WEST

SCALE: 1/8" = 1'-0"

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

ROOF FRAMING PLAN NOTES

1. SEE SHEETS S0-0.1 THROUGH S1-5.1 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND TOP OF WALL/PARAPET ELEVATIONS.
3. SEE ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF ROOF OPENINGS NOT SHOWN ON ROOF FRAMING PLANS. SEE DETAILS FOR TYPICAL OPENINGS, UNLESS NOTED OTHERWISE.
4. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.
5. PROVIDE 2" BY FULL DEPTH SOLID BLOCKING AT 8'-0" MAXIMUM FOR ROOF JOISTS OR RAFTERS MORE THAN 8" IN DEPTH. FOR ADDITIONAL INFORMATION SEE DETAIL .
6. ALL LINES AND/OR MEMBERS INDICATED AS "STRUT" SHALL RECEIVE (2) ROWS OF BOUNDARY NAILING (B.N.), STAGGERED.
7. "MU" DENOTES MECHANICAL UNIT. MAXIMUM ALLOWABLE WEIGHT IS SHOWN. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR EXACT SIZE AND WEIGHT OF MECHANICAL UNITS. FOR TYPICAL FRAMING AT MECHANICAL UNITS, SEE DETAILS .
8. SAWN LUMBER HANGERS SHALL BE SIMPSON B (LB @ 2X FRMG) HANGERS, UNLESS NOTED OTHERWISE.
9. I-JOIST HANGERS SHALL BE SIMPSON MIT HANGERS, UNLESS NOTED OTHERWISE.
10. WHERE TOP PLATES ARE INTERRUPTED BY A STEEL COLUMN, PROVIDE TIE PLATE CONNECTION PER DETAIL , UNLESS NOTED OTHERWISE.

LEGEND

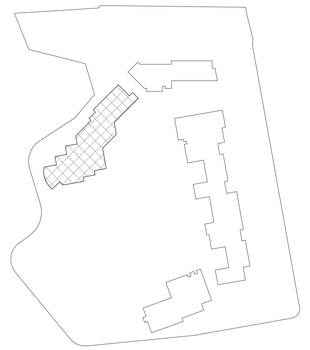
: INDICATES WOOD HEADER OVER OPENING BELOW. SEE DETAIL FOR SIZE & FRAMING UNLESS NOTED OTHERWISE ON PLAN.

: INDICATES SPAN OF JOISTS.

: INDICATES EXTENT OF JOISTS.

c=1 1/2" : INDICATES AMOUNT OF CAMBER IN GLB. STANDARD CAMBER (RADIUS= 3500 FT.) REQUIRED WHERE NONE SHOWN.

C : INDICATES TOP PLATE SPLICE. SEE DETAILS AND. PROVIDE TOP PLATE SPLICE PER DETAIL , UNLESS NOTED OTHERWISE.



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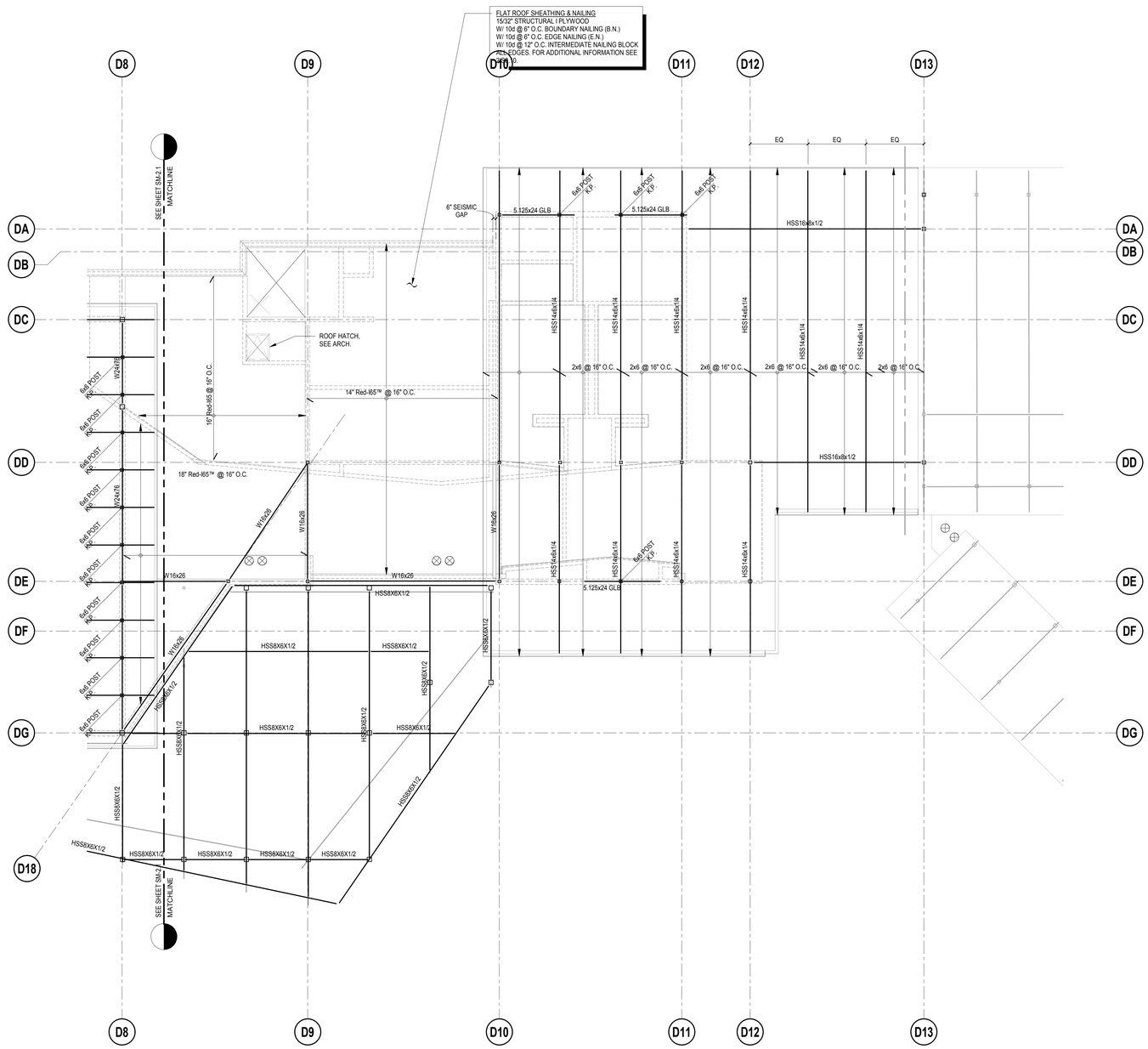
BUILDING M
ROOF FRAMING PLAN WEST

NO.	DATE	ISSUE

PROJECT NO: 1-XX-XXX
DATE: 02/20/2020

DRAWING
SM-2.1

2/14/2020 11:36:03 AM BIM 360://19009-00 Del Mar Heights ES/STRUCT-KNA-DMHS-BLDG M.rvt



ROOF FRAMING PLAN EAST

SCALE: 1/8" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

ROOF FRAMING PLAN NOTES

1. SEE SHEETS S0-0.1 THROUGH S1-5.1 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND TOP OF WALL/PARAPET ELEVATIONS.
3. SEE ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF ROOF OPENINGS NOT SHOWN ON ROOF FRAMING PLANS. SEE DETAILS FOR TYPICAL OPENINGS, UNLESS NOTED OTHERWISE.
4. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.
5. PROVIDE 2" BY FULL DEPTH SOLID BLOCKING AT 8'-0" MAXIMUM FOR ROOF JOISTS OR RAFTERS MORE THAN 8" IN DEPTH. FOR ADDITIONAL INFORMATION SEE DETAIL .
6. ALL LINES AND/OR MEMBERS INDICATED AS "STRUT" SHALL RECEIVE (2) ROWS OF BOUNDARY NAILING (B.N.), STAGGERED.
7. "MU" DENOTES MECHANICAL UNIT. MAXIMUM ALLOWABLE WEIGHT IS SHOWN. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR EXACT SIZE AND WEIGHT OF MECHANICAL UNITS. FOR TYPICAL FRAMING AT MECHANICAL UNITS, SEE DETAILS .
8. SAWN LUMBER HANGERS SHALL BE SIMPSON B (LB @ 2X FRMG) HANGERS, UNLESS NOTED OTHERWISE.
9. I-JOIST HANGERS SHALL BE SIMPSON MIT HANGERS, UNLESS NOTED OTHERWISE.
10. WHERE TOP PLATES ARE INTERRUPTED BY A STEEL COLUMN, PROVIDE TIE PLATE CONNECTION PER DETAIL , UNLESS NOTED OTHERWISE.

LEGEND

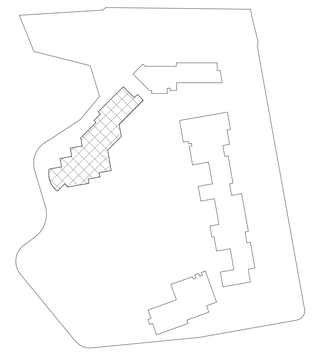
: INDICATES WOOD HEADER OVER OPENING BELOW. SEE DETAIL FOR SIZE & FRAMING UNLESS NOTED OTHERWISE ON PLAN.

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C : INDICATES TOP PLATE SPLICE. SEE DETAILS AND . PROVIDE TOP PLATE SPLICE PER DETAIL , UNLESS NOTED OTHERWISE.



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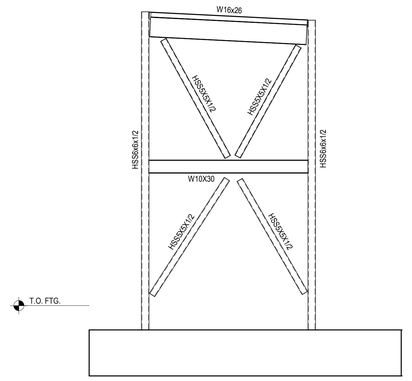
BUILDING M
ROOF FRAMING PLAN EAST

NO. DATE ISSUE

PROJECT NO: 1-XX-XXX
DATE: 02/20/2020

DRAWING
SM-2.2

2/14/2020 11:36:04 AM BIM 360://19009-00 Del Mar Heights ES/STRUCT-KNA-DMHS-BLDG M.rvt



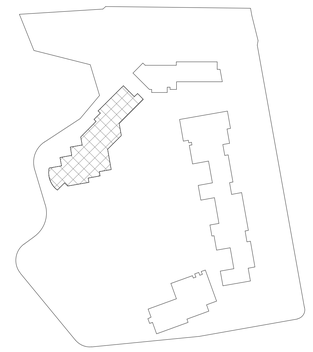
BRACED FRAME ELEVATION - WEST PORTION

SCALE: 1/4" = 1'-0"

1

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL



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No. 2755
Exp. 9-30-21
STRUCTURAL
STATE OF CALIFORNIA

KNA JOB No.: 323.080

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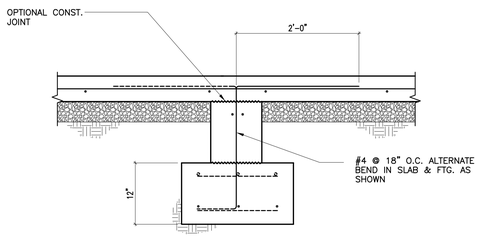
BRACED FRAME ELEVATION

NO.	DATE	ISSUE

PROJECT NO: 1-XX-XXX
DATE: 02/20/2020

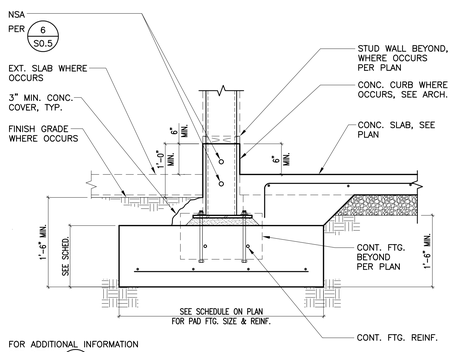
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SM-3.1

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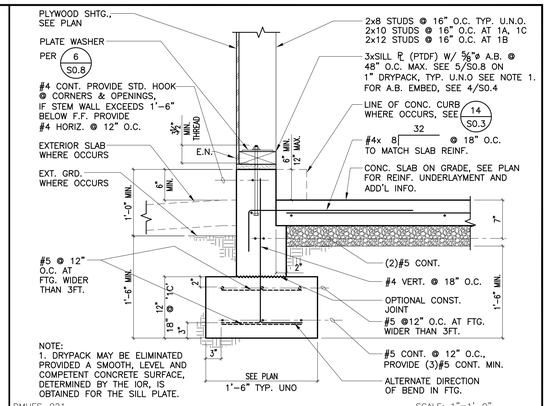
DMHES-028 SCALE: 1"=1'-0"

13 DETAIL 9



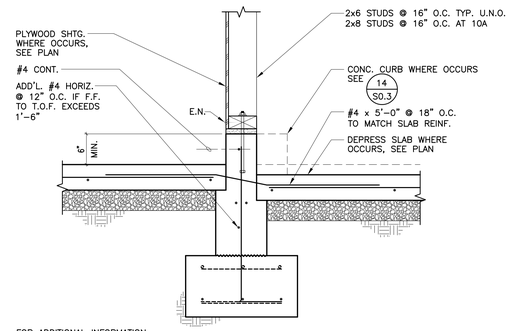
DMHES-025 SCALE: 1"=1'-0"

DETAIL 5



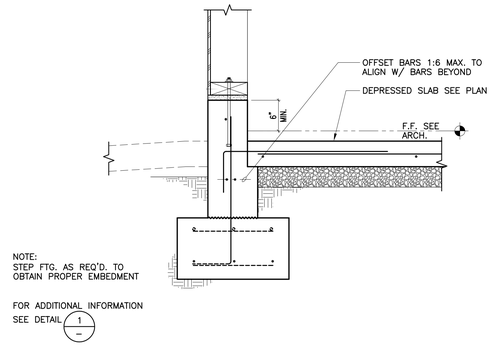
DMHES-021 SCALE: 1"=1'-0"

DETAIL 1C 1B 1A 1



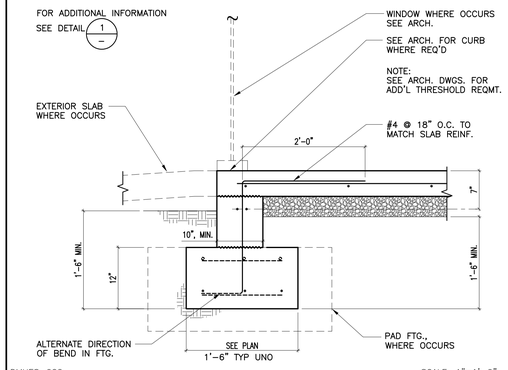
DMHES-029 SCALE: 1"=1'-0"

14 DETAIL 10A 10



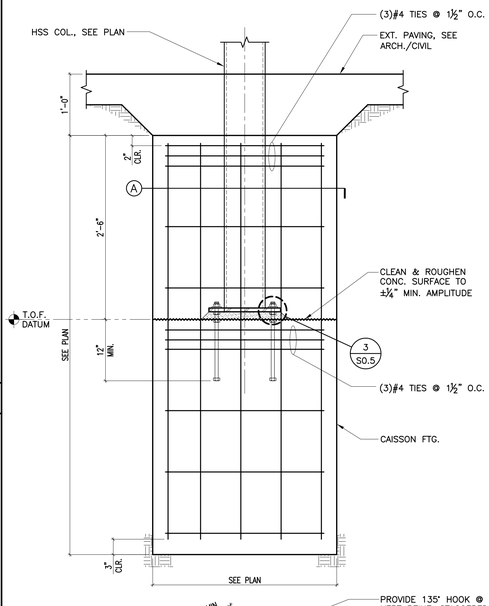
DMHES-026 SCALE: 1"=1'-0"

DETAIL 6



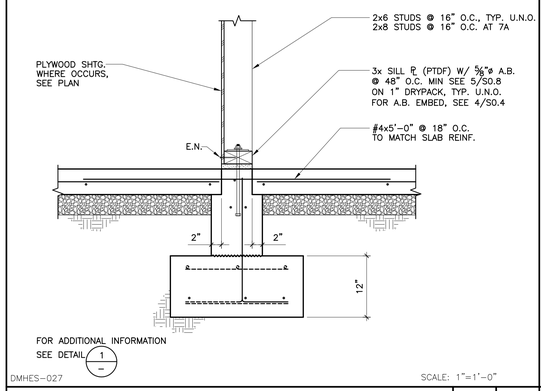
DMHES-022 SCALE: 1"=1'-0"

DETAIL 2



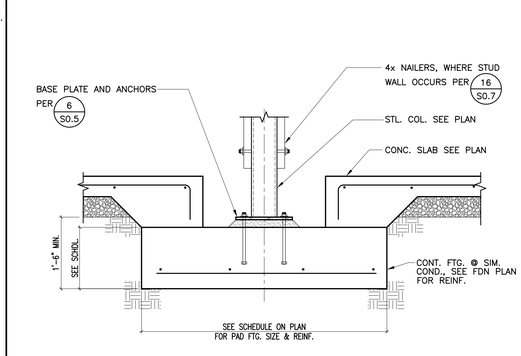
DMHES-030 SCALE: NO SCALE

15 16 DETAIL 12



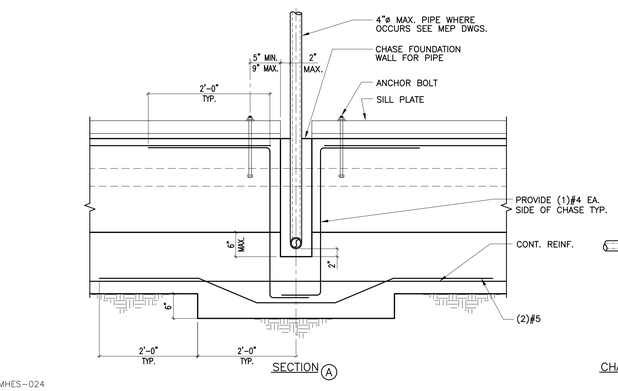
DMHES-027 SCALE: 1"=1'-0"

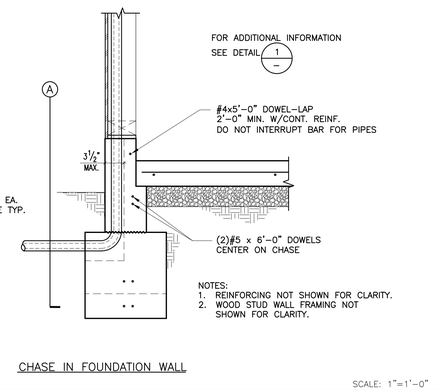
DETAIL 7A 7



DMHES-023 SCALE: 1"=1'-0"

DETAIL 3





DMHES-024 SCALE: 1"=1'-0"

DETAIL 4

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

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KNA JOB NO: 323.080
REGISTERED PROFESSIONAL ENGINEER KERRY R. KAPRETTE No. 2795 Exp. 9-30-21 STRUCTURAL STATE OF CALIFORNIA

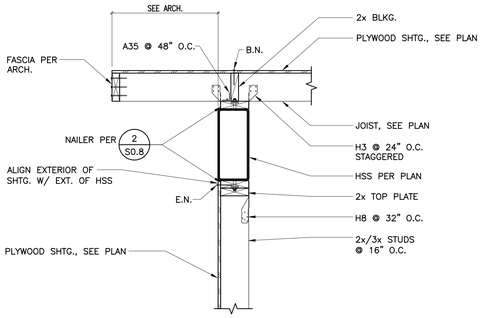
BakerNowicki design studio
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619.795.2450
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FOUNDATION DETAILS

NO.	DATE	ISSUE

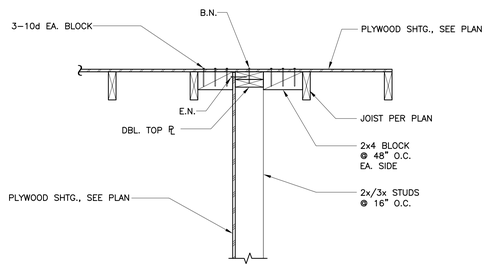
PROJECT NO: 19009
DATE: 02/20/2020

DRAWING
S4.1



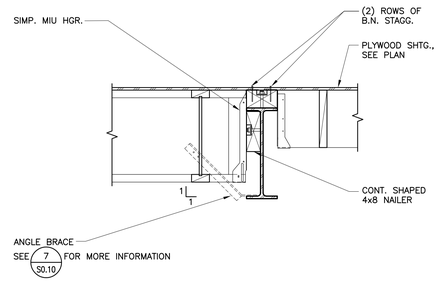
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DETAIL 13



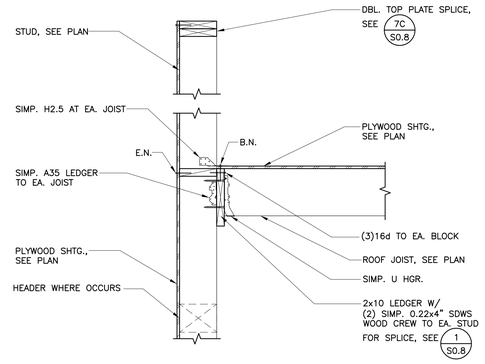
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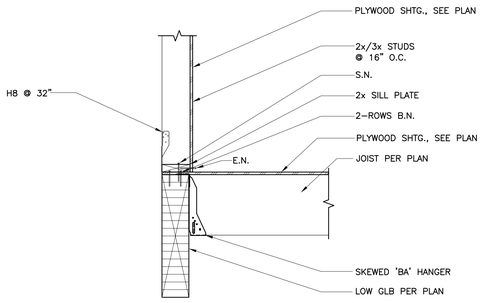
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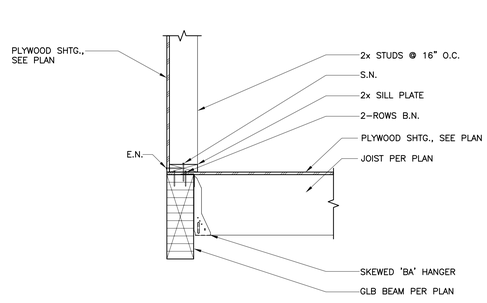
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DETAIL 1



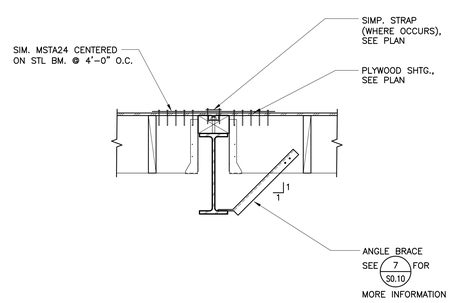
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DETAIL 14



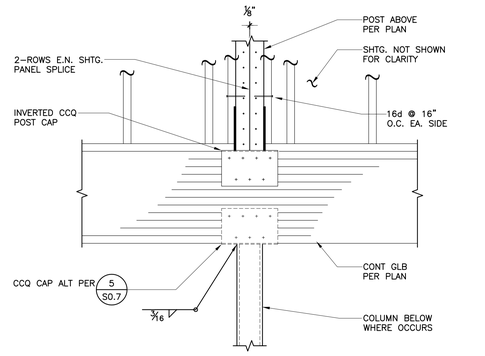
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DETAIL 10



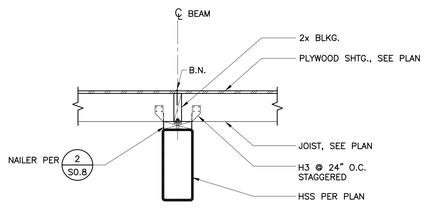
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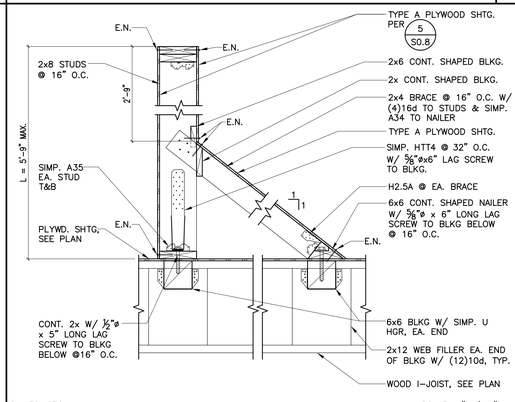
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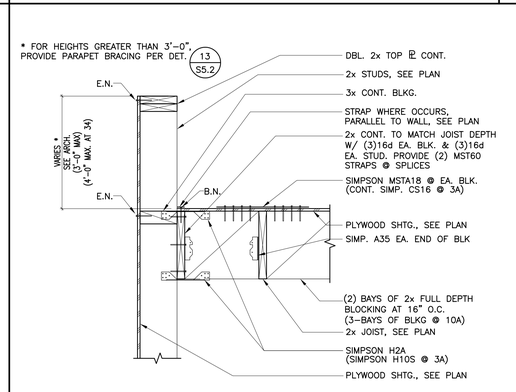
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DETAIL 15



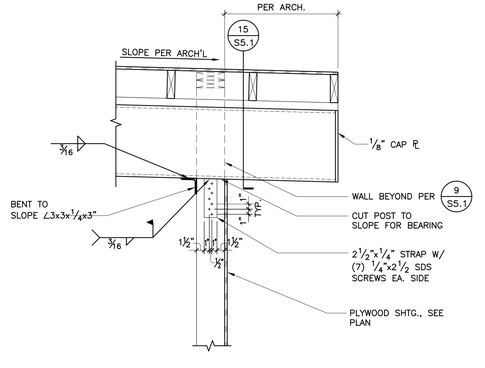
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DETAIL 7



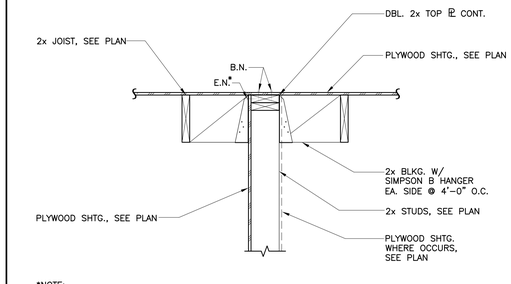
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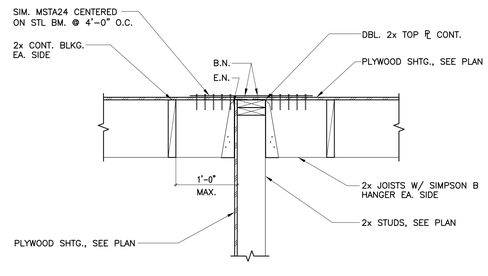
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DETAIL 16



DMHES-037 SCALE: 1"=1'-0"

DETAIL 8



DMHES-033 SCALE: 1"=1'-0"

DETAIL 4

FOR PLAN REVIEW ONLY

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

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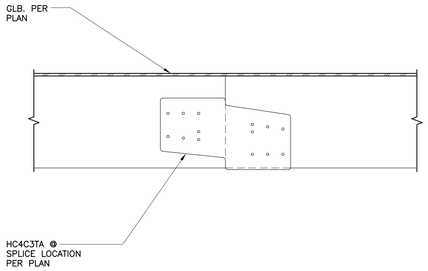
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ROOF FRAMING DETAILS

NO.	DATE	ISSUE

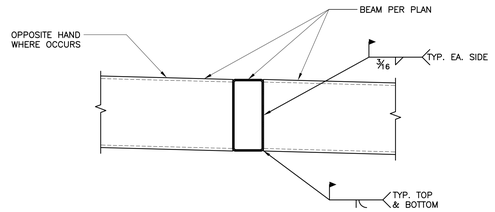
PROJECT NO: 19009
DATE: 02/20/2020

DRAWING
S5.1



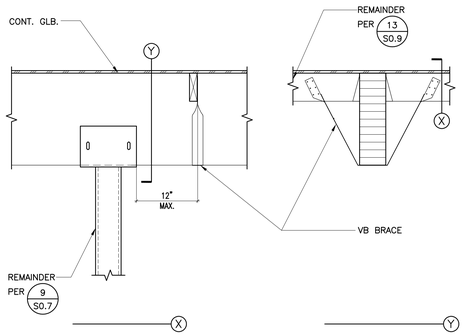
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13 | 9 | DETAIL | 5



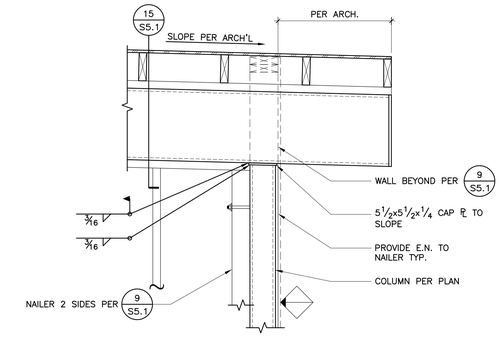
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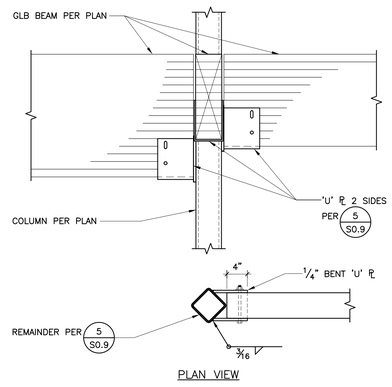
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14 | 10 | DETAIL | 6



DMHES-038 SCALE: 1"=1'-0"

DETAIL | 2



DMHES-039 SCALE: 1"=1'-0"

15 | 11 | 7 | **DETAIL** | 3

16 | 12 | 8 | 4

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ROOF FRAMING DETAILS

NO. DATE ISSUE

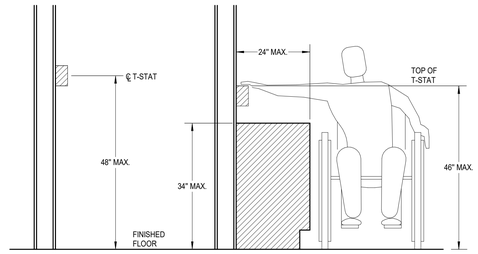
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S5.2

MECHANICAL LEGEND

SYMBOL	ABBREV.	DESCRIPTION
		REMOVE EXISTING EQUIPMENT OR PIPING SHOWN DASHED
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONNECT
E		COORDINATE WITH ELECTRICAL
	HHWS	HEATING HOT WATER SUPPLY
	HHWR	HEATING HOT WATER RETURN
	CHW	CHILLED WATER
	CHWR	CHILLED WATER RETURN
	CHWS	CHILLED WATER SUPPLY
	CD	CONDENSATE DRAIN (A.C)
	CWR	CONDENSER WATER RETURN
	CWS	CONDENSER WATER SUPPLY
	D	DRAIN
	ST	STEAM
	LPS	LOW PRESSURE STEAM
	MPS	MEDIUM PRESSURE STEAM
	HPS	HIGH PRESSURE STEAM
	CR	STEAM CONDENSATE RETURN
	RD	REFRIGERANT DISCHARGE
	RL	REFRIGERANT LIQUID
	RS	REFRIGERANT SUCTION
		PIPE DOWN
		PIPE UP
UR		PIPE RISE (OR DN. FOR DROP)
DN		DIRECTION OF FLOW IN PIPE
	AV	AIR VENT (VALVE)
	CHV	CHECK VALVE
CS	SD	SUCTION DIFFUSER
	CV (2W)	CONTROL VALVE (2-WAY)
	CV (3W)	CONTROL VALVE (3-WAY)
	FCD	AUTOMATIC FLOW CONTROL DEVICE
	GV	GATE VALVE
		GLOBE/BALL/BUTTERFLY VALVE
	BV	COMBINATION BALANCING & SHUT-OFF VALVE
	FEV	FLOW ELEMENT VENTURI
		VALVE ON RISE OR DROP
	STR.	STRAINER
	CL	CAPPED LINE
	DN.	DOWN OR DROP
	UP	RISE OR RISER
	RV	PRESSURE RELIEF VALVE
	PG	PRESSURE GAUGE WITH BALL VALVE
	R.	ECCENTRIC REDUCER
	R.	CONCENTRIC REDUCER
	FC	FLEXIBLE CONNECTION (PIPE)
TW	TW	TEST WELL (PETE'S PLUG) - PRESSURE AND/OR TEMPERATURE
	TI	THERMOMETER
	PA	PIPE ANCHOR
	U	UNION
10x6		DUCTWORK (1ST NUMBER INDICATES WIDTH SHOWN), NET INSIDE DIMENSION
	TV	SQUARE ELBOW WITH TURNING VANES
		RADIUS ELBOW
	MVD	MANUAL VOLUME DAMPER
	MOD	MOTOR OPERATED DAMPER
	BDD	BACKDRAFT DAMPER
FD	FD	FIRE DAMPER
SD	SD	DUCT MOUNTED SMOKE DETECTOR
SFD	SFD	AUTOMATIC SMOKE AND FIRE DAMPER
FLEX	FLEX	FLEXIBLE CONNECTION (DUCTWORK)
FLEX	FLEX	FLEXIBLE CONNECTION OR SEISMIC JOINT
		LINED DUCTWORK (OR PLENUM)
UP		DUCT RISE IN DIRECTION OF FLOW
DN		DUCT DROP IN DIRECTION OF FLOW
		ROUND DUCT UP
		ROUND DUCT DOWN
		SUPPLY DUCT UP
		SUPPLY DUCT DOWN
	RA/OA	RETURN AIR DUCT/OUTSIDE AIR DUCT UP
		RETURN AIR DUCT/OUTSIDE AIR DUCT DOWN
		EXHAUST AIR DUCT UP
		EXHAUST AIR DUCT DOWN
		DUCT TRANSITION
		DUCT TRANSITION (RECTANGULAR TO ROUND)

SYMBOL	ABBREV.	DESCRIPTION
	CD	CEILING DIFFUSER
	RR	RETURN REGISTER
	ER	EXHAUST REGISTER
DS HP-#	DS	DUCT SENSOR (NUMBER INDICATES EQUIPMENT ZONE SERVED)
T AC-#	T/STAT	THERMOSTAT OR TEMPERATURE SENSOR (NUMBER INDICATES EQUIPMENT ZONE SERVED)
H	H/STAT	HUMIDISTAT
C2		CARBON DIOXIDE SENSOR
	CFM	CUBIC FEET PER MINUTE
X OR		SYMBOL, SEE EQUIPMENT SCHEDULE
	AD/AP	ACCESS DOOR / ACCESS PANEL
	AFF	ABOVE FINISHED FLOOR
	BDD	BACK DRAFT DAMPER
	BOD	BOTTOM OF DUCT
	BOP	BOTTOM OF PIPE (ABOVE FIN. FLR.)
	CD	CEILING DIFFUSER
	CLG.	CEILING
	CFM	CUBIC FEET PER MINUTE
	CONC.	CONCRETE
	CONT.	CONTINUATION
	°F	DEGREES FAHRENHEIT
	DIA. ∅	DIAMETER
	DN.	DOWN
	DWGS.	DRAWINGS
	DB	DRY BULB
	DTR	DUCT THRU ROOF
	(E)	EXISTING
	EA	EXHAUST AIR
	ER	EXHAUST REGISTER
	EFF.	EFFICIENCY
	ELEV.	ELEVATION
	ENT.	ENTERING
	EWT	ENTERING WATER TEMPERATURE
	EXH.	EXHAUST
	EXIST.	EXISTING
	FF	FINISHED FLOOR
	FIN.	FINISH
	FLR.	FLOOR
	GPM	GALLONS PER MINUTE
	IN.	INCH
	HD.	HEAD
	HOA	HAND-OFF-AUTOMATIC
	HP	HORSEPOWER
	LD	LINEAR DIFFUSER
	LVG.	LEAVING
	LWT	LEAVING WATER TEMPERATURE
	MAX.	MAXIMUM
	MBH	ONE THOUSAND B.T.U.'s PER HOUR
	MECH.	MECHANICAL
	MIN.	MINIMUM
	MTD.	MOUNTED
	MTG.	MOUNTING
	NC	NORMALLY CLOSED
	NO	NORMALLY OPEN
	OBD	OPPOSED BLADE DAMPER
	OA	OUTSIDE AIR
	PD	PRESSURE DROP
	PSIG	POUNDS PER SQUARE INCH GAUGE
	RA	RETURN AIR
	REG.	REGISTER
	RR	RETURN REGISTER
	SA	SUPPLY AIR
	SF	SQUARE FEET
	SS	STAINLESS STEEL
	ST	STEAM
	TYP.	TYPICAL
	UNO	UNLESS NOTED OTHERWISE
	UOS	UNLESS OTHERWISE SPECIFIED
	UTR	UP THRU ROOF
	VAV	VARIABLE AIR VOLUME
	VFD	VARIABLE FREQUENCY DRIVE
	VTR	VENT THRU ROOF
	WG	WATER GAUGE
	WB	WET BULB
	W/	WITH



1 MOUNTING HEIGHT OVER OBSTRUCTION
NO SCALE

PLAN CHECK NOTES

1. CERTIFICATE OF ACCEPTANCE (MECH-2A AND ENV-2A) AND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.
2. ALL PIPING AND DUCT WORK SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF SECTIONS 120.3, 120.4, 120.7 TITLE 24 ENERGY STANDARDS AND CHAPTER 6 OF CMC.
3. ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTION 110.2 AND 120.2 E.E.S.
4. ALL HVAC EQUIPMENT AND APPLIANCES SHALL MET THE REQUIREMENTS PER SECTION 110.1-110.3, 110.5, 120.1-120.4 TITLE 24 ENERGY STANDARDS.
5. PROVIDE SMOKE DETECTORS IN MAIN SUPPLY AIR DUCTS OF AIR MOVING SYSTEMS EXCEEDING 2000 CFM PER SECTION 608.0 CMC.
6. EXHAUST DUCTS SHALL BE EQUIPPED WITH BACK-DRAFT DAMPERS PER SEC. 504.0 CMC.
7. A WATERTIGHT PAN OF CORROSION RESISTANT MATERIAL SHALL BE PROVIDED BENEATH HVAC UNITS PER SECTION 309.2 CMC.
8. ROOF ACCESS LADDER SHALL COMPLY WITH SECTION 304 CMC.
9. CALIFORNIA MECHANICAL CODE 2016 (CMC 2016), CALIFORNIA PLUMBING CODE 2016 (CPC 2016) AND 2016 TITLE 24 ENERGY STANDARDS ARE THE CURRENT CODES/STANDARDS APPLICABLE TO THIS PROJECT.
10. HVAC DUCT INSULATION SHALL BE R-8 AT EXTERIOR INSTALLED DUCTWORK.

TITLE 24 NOTES

1. HVAC SYSTEMS SHALL MEET THE LATEST CONTROL REQUIREMENTS OF SECTIONS 110.2 & 120.2 ENERGY EFFICIENCY STANDARDS.
2. DOORS AND WINDOWS SHALL MEET MINIMUM INFILTRATION REQUIREMENTS OF SECTION 110.6 AND 110.7 ENERGY EFFICIENCY STANDARDS.
3. INSULATION AND FLEXIBLE DUCT SHALL COMPLY WITH STATE FIRE MARSHAL CRITERIA AND SHALL NOT EXCEED FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50 PER ASTM-84, NFPA-225, AND U.L. 723.
4. ALL WORK SHALL BE IN ACCORDANCE WITH CITY CODES, CALIFORNIA ENERGY CONSERVATION STANDARDS, TITLE - 24, AND ALL OTHER APPLICABLE CODES.
5. ALL ENVELOPE AND MECHANICAL CERTIFICATE OF ACCEPTANCE FORMS AND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.
6. MECH-04-A FORM FOR DUCT LEAKAGE SEALING AND TESTING SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.
7. ALL PIPING AND DUCT WORK SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF SECTIONS 120.3, 120.4 AND 120.7 TITLE 24 ENERGY STANDARDS AND CHAPTER 6 OF CMC.
8. ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTION 110.1 - 110.3, 110.5, 120.1 -120.4 TITLE 24 ENERGY STANDARDS.

CA GREEN BUILDING NOTES

1. IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE OCCUPIED AREAS OF BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY THAT PROVIDES AT LEAST MERV OF 8 (REF. SECTION 5.504.5.3).
2. PROVIDE TESTING AND ADJUSTING OF HVAC SYSTEMS AND CONTROLS PER 5.713.10.4.
3. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, RETURN AIR FILTERS WITH A MERV 8 RATING SHALL BE USED PER 5.714.4.1.
4. COMMISSIONING IS REQUIRED FOR COMMERCIAL BUILDINGS 10,000 SF AND OVER PER SECTION 5.410.2 CGBSC
5. THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING OR AREAS OF ADDITION OR ALTERATION WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, RETURN AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 30% BASED ON ASHRAE 52.1-1992 SHALL BE USED. ALL FILTERS SHALL BE REPLACED IMMEDIATELY PRIOR TO OCCUPANCY OR AT THE CONCLUSION OF CONSTRUCTION (CAL GREEN SECTION: 5.504.1.3)
6. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM. (CAL GREEN SECTION 5.504.3)
7. IN MECHANICALLY VENTILATED BUILDINGS, REGULARLY OCCUPIED AREAS OF THE BUILDING SHALL BE PROVIDED WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8. MERV 8 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY, AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL (CAL GREEN SECTION 5.504.5.3)
8. EXCEPTION TO CAL GREEN SECTION 5.504.3: AN ASHRAE 10% TO 15% EFFICIENCY FILTER SHALL BE PERMITTED FOR AN HVAC UNIT MEETING THE 2013 CALIFORNIA ENERGY CODE HAVING 6000 BTUH OR LESS CAPACITY PER FAN COIL, IF THE ENERGY USE OF THE AIR DELIVERY SYSTEM IS 0.4 W/CFM OR LESS AT DESIGN AIRFLOW.
9. WHERE OUTDOOR AREAS ARE PROVIDED FOR SMOKING, PROHIBIT SMOKING WITHIN THE BUILDING AS ALREADY PROHIBITED BY OTHER LAWS OR REGULATIONS; OR AS ENFORCED BY ORDINANCES; REGULATIONS, OR POLICIES OF ANY CITY, COUNTY, CITY AND COUNTY, CALIFORNIA COMMUNITY COLLEGE, CAMPUS OF THE CALIFORNIA STATE UNIVERSITY, OR CAMPUS OF THE UNIVERSITY OF CALIFORNIA, WHICHEVER ARE MORE STRINGENT. WHEN ORDINANCES, REGULATIONS, OR POLICIES ARE NOT IN PLACE, SIGNAGE SHALL BE POSTED TO INFORM BUILDING OCCUPANTS OF THE PROHIBITIONS.
10. MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS SHALL MEET THE MINIMUM REQUIREMENTS OF SECTION 121 (REQUIREMENTS FOR VENTILATION) OF THE 2016 CALIFORNIA ENERGY CODE, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8. (CAL GREEN SECTION 5.506.1)
11. FOR BUILDINGS OR ADDITIONS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF 2016 CALIFORNIA ENERGY CODE, SECTION 120(C)(4). (CAL GREEN SECTION 5.506.1)
12. BUILDING ASSEMBLIES AND COMPONENTS WITH STC VALUES DETERMINED IN ACCORDANCE WITH ASTM E90 AND ASTM E413 SHALL BE EMPLOYED.
13. WALL AND ROOF-CEILING ASSEMBLIES EXPOSED TO THE NOISE SOURCE MAKING UP THE BUILDING OR ADDITION ENVELOPE OR ALTERED ENVELOPE SHALL MEET A COMPOSITE STC RATING OF AT LEAST 50 OR A COMPOSITE OITC RATING OF NO LESS THAN 40, WITH EXTERIOR WINDOWS OF A MINIMUM STC OF 40 OR OITC OF 30 IF LOCATED WITHIN THE 65 CNEL NOISE INDUSTRIAL SOURCE OR FIXED-GUIDEWAY SOURCE AS DETERMINED BY THE NOISE ELEMENT OF THE GENERAL PLAN. (SECTION 5.507.4.1 CGBSC) SEE EXCEPTIONS 1&2 ON SEC. 5.507.4.1.
14. INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2. HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CHLOROFLUOROCARBONS (CFCs) AND SHALL NOT CONTAIN HALONS (SECTION 5.508.1)
15. IN ADDITION TO TESTING AND ADJUSTING, BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, BALANCE THE SYSTEM IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS, THE NEBB PROCEDURAL STANDARDS; OR AABC NATIONAL STANDARDS.
16. PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. O&M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.

GENERAL NOTES

1. THESE DRAWINGS ARE A GENERAL GRAPHIC PRESENTATION OF THE WORK. DUCTWORK, PIPING, AND EQUIPMENT, AS SHOWN, ARE SCHEMATIC. FABRICATE AND INSTALL BASED ON ACTUAL FIELD MEASUREMENT. COORDINATE WITH OTHER TRADES. PROVIDE A COMPLETE SET OF SHOP DRAWINGS REFLECTING ACTUAL INSTALL, ACCESS REQUIREMENTS, AND DETAILS BASED UPON THE ACTUAL EQUIPMENT PROCURED. MAINTAIN AN UP TO DATE SET OF AS-BUILT DRAWINGS AT THE JOB SITE.
2. THESE DRAWINGS ARE TO BE CONSIDERED NOT FOR CONSTRUCTION UNTIL THEY ARE STAMPED, SIGNED, AND PERMITTED. UNTIL THEN THEY ARE SUBJECT TO CHANGE WITHOUT NOTICE.
3. COMPLY WITH CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA PLUMBING CODE (CPC), AND NATIONAL FIRE PROTECTION AGENCY (NFPA), AND GOVERNING CODES. THERE SHALL BE NO EXCEPTION. REPORT DEFICIENCIES WITHIN THIRTY (30) DAYS UPON AUTHORIZATION TO PROCEED.
4. REVIEW ALL DRAWINGS AND SPECIFICATIONS INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY QUESTIONS SHALL BE BROUGHT UP, IN WRITING, TO THE ATTENTION OF THE ENGINEER BEFORE THE START OF CONSTRUCTION.
5. PROVIDE ACCESS AND CLEARANCE FOR MAINTENANCE FOR MECHANICAL EQUIPMENT AND COMPONENTS AS RECOMMENDED BY EQUIPMENT MANUFACTURER AND APPLICABLE CODES.
6. HANDLE, STORE AND INSTALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
7. INSTALL VALVES WITH UNIONS OR FLANGES AT EACH PIECE OF EQUIPMENT ARRANGED TO ALLOW SERVICE MAINTENANCE, AND EQUIPMENT REMOVAL WITHOUT SYSTEM SHUT-DOWN.
8. BRACE AND SUPPORT PIPES, CONDUIT, AND DUCTWORK IN ACCORDANCE WITH SMACNA GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING PIPING SYSITEM.
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS, REGISTERS, GRILLES, AND ACCESS PANELS.
10. ALL DUCT DIMENSIONS, AS SHOWN ON MECHANICAL DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
11. INSULATION AND FLEXIBLE DUCT SHALL COMPLY WITH STATE FIRE MARSHALL CRITERIA AND SHALL NOT EXCEED FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50 PER ASTM-84, NFPA-223, AND UL 723.
12. INSULATE PIPING AND DUCTWORK IN ACCORDANCE WITH TITLE 24.
13. COMMISSION AND START-UP THE MECHANICAL SYSTEMS TO ASSURE A COMPLETE AND OPERATIONAL HVAC SYSTEM IN ACCORDANCE WITH ASHRAE AND NEBB.
14. ALL SQUARE ELBOWS IN DUCTWORK SHALL HAVE DOUBLE THICKNESS TURNING VANES. ALL RADIUS ELBOWS IN DUCTWORK SHALL BE MINIMUM 1.5W (1.5WIDTH) AND HAVE 3 SPLITTER VANES. PROVIDE MANUAL VOLUME DAMPER AT EACH BRANCH DUCT TAKE-OFF SERVING EACH AIR TERMINAL DEVICE. PROVIDE BALANCING DAMPERS FOR EACH MAIN DUCT TAKE-OFF IN ACCORDANCE WITH SMACNA IN ORDER TO ASSURE A COMPLETELY BALANCED SYSTEM.
15. FIRE DAMPER ASSEMBLIES, INCLUDING LOCATION, SLEEVES, AND INSTALLATION PROCEDURES SHALL BE APPROVED BY THE BUILDING INSPECTOR PRIOR TO PROCUREMENT AND INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FIRE RATED WALLS AND SMOKE SEPARATIONS.
16. COORDINATE WITH ELECTRICAL AND CONTROL CONTRACTORS FOR ALL POWER REQUIREMENTS PRIOR TO BID.
17. COORDINATE WITH ELECTRICAL AND CONTROL CONTRACTORS FOR ALL POWER REQUIREMENTS PRIOR TO ORDERING ANY EQUIPMENT.
18. UPON INSTALLATION OF ALL EQUIPMENT, DEVICES, VIBRATION ISOLATION, ETC., PROVIDE WRITTEN CONFIRMATION BY EQUIPMENT MANUFACTURER'S REPRESENTATIVES TO ENSURE COMPLIANCE WITH MANUFACTURER'S REQUIREMENTS.
19. PROVIDE DETAILS AND SEISMIC CALCULATIONS FOR ALL EQUIPMENT ON VIBRATION ISOLATION. ALL DETAILS SHALL BE STAMPED BY A STRUCTURE ENGINEER FROM VIBRATION ISOLATION MANUFACTURER.
20. THE CONTRACTOR SHALL SELECT ALL CIRCUIT SETTERS/BALANCING VALVES FOR ACTUAL FLOW THROUGH THE PIPE AND THE PROPER PRESSURE DROP TO ENSURE PROPER OPERATION AND NOT BASED ON PIPE SIZES.

PROJECT NOTES

1. CONTRACTOR SHALL COORDINATE ARCHITECTURAL REFLECTED CEILINGS PLANS WITH ALL DISCIPLINES TO VERIFY CLEARANCES BETWEEN HVAC DUCTS, HVAC PIPING, LIGHT FIXTURES, ELECTRICAL DATA CONDUITS, PLUMBING LINES, FIRE PROTECTION LINES, STRUCTURAL MEMBERS, ETC. SPECIAL ATTENTION IS REQUIRED ALONG THE LENGTH OF MAIN MECHANICAL SUPPLY AND RETURN AIR DUCTS WHERE THERE IS LIMITED CLEARANCE FOR PASSAGE OR ROUTING OF UTILITIES.
2. THE SPACE FOR DUCT WORK & MECHANICAL EQUIPMENT FOR THIS PROJECT IS LIMITED. COORDINATION WITH OTHER TRADES IS CRITICAL. PROCEED WITH PREPARATION OF SHOP DRAWINGS IMMEDIATELY UPON RECEIVING AN AUTHORIZATION TO PROCEED FOR THE PROJECT. COMPLETE SHOP DRAWINGS PRIOR TO MATERIAL FABRICATION AND INSTALLATION.
3. PROVIDE ORIGINALLY PREPARED CONTRACTOR'S SHOP DRAWINGS IN ELECTRONIC FORMAT. THE SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING:
   a. DUCT, PIPE AND PLUMBING ELEVATIONS.
   b. DOUBLE LINE DUCTWORK AND PIPING (6" AND LARGER).
   c. ACTUAL SIZE OF PURCHASED EQUIPMENT. PER APPROVED CONTRACTOR'S SHOP DRAWINGS.
   d. ACCESS PANELS INCLUDING CEILING PANELS.
   e. ACCESS CLEARANCES FOR EQUIPMENT.
   f. ACTUAL LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND RETURN REGISTERS.
   g. LOCATIONS OF STRUCTURAL MEMBERS SUCH AS BEAMS.
   h. ACTUAL LOCATIONS OF CONTROL PANELS AND POWER CONNECTIONS TO EQUIPMENT.
   i. COLOR CODED DUCT AND PIPING BASED ON MATERIAL USED.
   j. MINIMUM 1/4"=1'0" SCALE DRAWINGS.
   k. LABEL AND TAG SCHEDULE FOR EQUIPMENT.
   l. DUCT TRANSITIONS TO CLEAR BEAMS OR TIGHT AREAS.
   m. ROOM TEMPERATURE SENSOR LOCATIONS.
   n. POINT OF CONNECTION TO UTILITIES OUTSIDE THE BUILDING.
   o. SECTIONS OR 3-D DRAWINGS OF CONGESTED AREAS.
   p. GRID LINES.
   q. UNDERGROUND PIPING.
4. DO NOT COMMENCE WITH ANY INSTALLATION, ORDERING OF ANY EQUIPMENT OR MATERIAL FABRICATION WITHOUT AN APPROVED SHOP DRAWING SUBMITTAL.
5. FOR EACH SUBMITTAL, THE CONTRACTOR SHALL PROVIDE A LETTER (ON COMPANY LETTERHEAD) AND SIGNED BY THE PROJECT MANAGER INDICATING THE SUBMITTAL HAS BEEN FULLY IN HOUSE REVIEWED TO ENSURE FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND COORDINATION WITH OTHER TRADES. ANY EXCEPTIONS TO THE CONTRACT DOCUMENTS SHALL BE CLEARLY INDICATED ON THIS LETTER.

VARIABLE REFRIGERANT FLOW NOTE

1. THE VRF PIPING LAYOUT IS ONLY FOR DIAGRAMMATICAL PURPOSES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE FINAL LAYOUT BASED ON ACTUAL ROUTING AND SIZING WITH THE VRF MANUFACTURER. THIS COORDINATION INCLUDES FINAL ROUTING AND FINAL PIPE PATH LENGTHS, QUANTITY AND TYPE OF ELBOWS, AND VRF EQUIPMENT LOCATIONS RELATIVE TO EACH OTHER (E.G. DISTANCE FROM OUTDOOR CONDENSER TO BRANCH BOX). ASHRAE 15 MAXIMUM REFRIGERANT CALCULATIONS SHALL BE PROVIDED BY THE CONTRACTOR BASED ON THE FINAL LAYOUT OF THE PIPING DISTRIBUTION SYSTEM TO EACH ZONE. THIS SHALL BE SUBMITTED AS PART OF THE SHOP DRAWING SUBMITTALS. VRF PIPING SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL BY THE VRF MANUFACTURER, EOR AND THE DISTRICT PRIOR TO PURCHASE AND INSTALL. IF THE VRF SYSTEM BASIS OF DESIGN AS SCHEDULED IS CHANGED, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO INCUR THE COSTS ASSOCIATED WITH REDESIGNING AND ACQUIRING PERMIT AND/OR APPROVAL FOR THE DESIGN CHANGE. ALL VRF PIPING MUST BE LABELED.

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IDENTIFICATION BY
DIVISION OF THE STATE ARCHITECT
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APPL # 04-XXXXXX
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MECHANICAL LEGEND AND GENERAL NOTES

NO.	DATE	ISSUE

PROJECT NO: 000000
DATE: 00/00/0000

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VRF HEAT RECOVERY UNIT SCHEDULE

SYMBOL	MAKE AND MODEL	FAN COILS SERVED	ELECTRICAL DATA														CAPACITY				REFRIGERANT			REMARKS
			V	PH	Hz	MCA			MOCP			COMPRESSOR MOTOR OUTPUT (KW)						COOLING		HEATING		TYPE	CHARGE (LBS)	OPER. WEIGHT	
						FRAME			FRAME			FRAME						TOTAL (MBH)	AMB °F	OUPUT (MBH)	AMB °F				
						1	2	3	1	2	3	1		2		3									
												COMP. A	COMP. B	COMP. A	COMP. B	COMP. A	COMP. B								
HRU A-1	CARRIER MMY-AP0486T6P-UL	FC A-1 THROUGH FC A-11	460	3	60	23.4	23.4	22	30	30	25	5.4	5.4	5.4	5.4	4.0	4.0	390	95	435	47	R410A	72.9	2835	

VRF FAN COIL UNIT SCHEDULE

SYMBOL	MAKE AND MODEL	SERVES	INDOOR FAN SECTION								CAPACITY (MBH)					MIN. OA CFM	OPER. WEIGHT	REMARKS
			INDOOR FAN MOTOR								COOLING				HEATING			
			CFM	ESP	V	PH	Hz	FLA	MCA	MOP	TOTAL	SENS.	ENT. DB °F	ENT. WB °F				
FC A-1	CARRIER MMD-AP0484BH2UL-1	ADMIN LOBBY 124	1180	0.46	230	1	60	2.2	2.8	15	48.0	36.0	80	67	54.0	195	145	
FC A-2	CARRIER MMD-AP0244BH2UL-1	CONFERENCE ROOM 123	690	0.46	230	1	60	1.4	1.8	15	24.0	18.0	80	67	27.0	65	145	
FC A-3	CARRIER MMD-AP0364BH2UL-1	TEACHER WORKROOM AND LOUNGE	1000	0.46	230	1	60	1.8	2.3	15	36.0	27.0	80	67	40.0	170	145	
FC A-4	CARRIER MMD-AP0244BH2UL-1	HEALTH 115 AND STORAGE	690	0.46	230	1	60	1.4	1.8	15	24.0	18.0	80	67	27.0	140	145	
FC A-5	CARRIER MMD-AP0364BH2UL-1	PSYCH 112 AND RESTROOMS	1000	0.46	230	1	60	1.8	2.3	15	36.0	27.0	80	67	40.0	210	145	
FC A-6	CARRIER MMD-AP0244BH2UL-1	PRINCIPAL 110	690	0.46	230	1	60	1.4	1.8	15	24.0	18.0	80	67	27.0	40	145	
FC A-7	CARRIER MMD-AP0244BH2UL-1	SMALL CONFERENCE 111	690	0.46	230	1	60	1.4	1.8	15	24.0	18.0	80	67	27.0	40	145	
FC A-8	CARRIER MMD-AP0484BH2UL-1	KINDERGARTEN 101	1180	0.46	230	1	60	2.2	2.8	15	48.0	36.0	80	67	54.0	235	145	
FC A-9	CARRIER MMD-AP0484BH2UL-1	KINDERGARTEN 102	1180	0.46	230	1	60	2.2	2.8	15	48.0	36.0	80	67	54.0	235	145	
FC A-10	CARRIER MMD-AP0244BH2UL-1	SHARED LEARNING SPACE 104	690	0.46	230	1	60	1.4	1.8	15	24.0	18.0	80	67	27.0	90	145	
FC A-11	CARRIER MMD-AP0484BH2UL-1	KINDERGARTEN 103	1180	0.46	230	1	60	2.2	2.8	15	48.0	36.0	80	67	54.0	275	145	

DUCTLESS FAN COIL UNIT SCHEDULE

SYMBOL	MAKE AND MODEL	SERVES	INDOOR UNIT					OUTDOOR UNIT						COOLING CAPACITY (MBH)					HEATING CAPACITY (MBH)		REFRIGERANT		REMARKS
			CFM	DRIVE	V	PH	OPER. WEIGHT	SYMBOL	MAKE AND MODEL	MCA	MOP	V	PH	OPER. WEIGHT	TOTAL	SENS.	AMB °F	ENT. DB °F	ENT. WB °F	AMB °F	EDB	TOTAL CAP. MBH	TYPE	CHARGE (LBS.)	
DFC A-1	CARRIER 40MAQB36-3	ELECTRICAL 120	800	DIRECT	230	1	50	CU A-1	CARRIER 38MAQB36R-3	25	35	230	1	175	36.0	27.0	95	80	67	47	70	36.0	R410A	7.5	
DFC A-2	CARRIER 40MAQB24B-3	IDF 121	800	DIRECT	230	1	50	CU A-2	CARRIER 38MAQB24R-3	20	30	230	1	175	24.0	18.0	95	80	67	47	70	24.0	R410A	5.73	

VRF HEAT RECOVERY BOX SCHEDULE

SYMBOL	MAKE AND MODEL	FAN COILS SERVED	ELECTRICAL DATA				OPER. WEIGHT	REMARKS
			MCA	V	PH	Hz		
HRB A-1	CARRIER RBM-Y0611F4PUL	FC'S A-1, A-2, AND A-3	0.7	208	1	60	100	
HRB A-2	CARRIER RBM-Y0611F4PUL	FC'S A-4, A-5, AND A-6	0.7	208	1	60	100	
HRB A-3	CARRIER RBM-Y0611F4PUL	FC's A-7 AND A-8	0.7	208	1	60	100	
HRB A-4	CARRIER RBM-Y0611F4PUL	FC'S A-9 THROUGH A-12	0.7	208	1	60	100	

SUPPLY FAN SCHEDULE

SYMBOL	MAKE AND MODEL	CFM	DRIVE	ESP (IN. W.G.)	RPM	MIN. WHEEL DIA.	MOTOR				OPER. WEIGHT	REMARKS
							BHP	MAX HP	V	PH		
SF A-1	GREENHECK SQ -99-VG	590	DIRECT	0.5	1449	11.187	0.16	1/4	115	1	60	
SF A-2	GREENHECK SQ-120-VG	1430	DIRECT	0.5	1527	13.125	0.31	1/2	115	1	60	

EXHAUST FAN SCHEDULE

SYMBOL	MAKE AND MODEL	CFM	DRIVE	ESP (IN. W.G.)	RPM	MIN. WHEEL DIA.	MOTOR				OPER. WEIGHT	REMARKS
							BHP	MAX HP	V	PH		
EF A-1	GREENHECKSQ-130-VG	1690	DIRECT	1.0	1655	13.063	0.52	0.75	115	1	80	
EF A-2	GREENHECK SP-80-VG	60	DIRECT	0.425	935	7.64	6.1W	--	115	1	15	
EF A-3	GREENHECK SP-A70	50	DIRECT	0.261	850	5.5	13W	--	115	1	15	
EF A-4	GREENHECK SP-A70	50	DIRECT	0.261	850	5.5	13W	--	115	1	15	
EF A-5	GREENHECK SP-A70	50	DIRECT	0.261	850	5.5	13W	--	115	1	15	

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MECHANICAL SCHEDULES

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VRF HEAT RECOVERY UNIT SCHEDULE

SYMBOL	MAKE AND MODEL	FAN COILS SERVED	ELECTRICAL DATA														CAPACITY				REFRIGERANT			REMARKS
			V	PH	Hz	MCA			MOCP			COMPRESSOR MOTOR OUTPUT (KW)						COOLING		HEATING		TYPE	CHARGE (LBS)	OPER. WEIGHT	
						FRAME			FRAME			1		2		3		TOTAL (MBH)	AMB °F	OUPUT (MBH)	AMB °F				
						1	2	3	1	2	3	COMP. A	COMP. B	COMP. A	COMP. B	COMP. A	COMP. B								
HRU C-1																									
HRU C-2																									
HRU C-3																									
HRU C-4																									

VRF FAN COIL UNIT SCHEDULE

SYMBOL	MAKE AND MODEL	SERVES	INDOOR FAN SECTION							CAPACITY (MBH)						MIN. OA CFM	OPER. WEIGHT	REMARKS
			INDOOR FAN MOTOR								COOLING				HEATING			
			CFM	ESP	V	PH	Hz	FLA	MCA	MOP	TOTAL	SENS.	ENT DB °F	ENT. WB °F				
FC C-1	CARRIER MMD-AP0484BH2UL-1	CLASSROOM 148	1180	0.46	230	1	60	2.2	2.8	15	48.0	36.0	80	67	54.0	190	145	
FC C-2	CARRIER MMD-AP0484BH2UL-1	CLASSROOM 149	1180	0.46	230	1	60	2.2	2.8	15	48.0	36.0	80	67	54.0	275	145	
FC C-3	CARRIER MMD-AP0364BH2UL-1	CLASSROOM 150	1000	0.46	230	1	60	1.8	2.3	15	36.0	27.0	80	67	40.0	190	145	
FC C-4	CARRIER MMD-AP0364BH2UL-1	APE, OT, AND SPEECH	1000	0.46	230	1	60	1.8	2.3	15	36.0	27.0	80	67	40.0	190	145	
FC C-5	CARRIER MMD-AP0484BH2UL-1	LEARNING STUDIO 167 AND STORAGE	1180	0.46	230	1	60	2.2	2.8	15	48.0	36.0	80	67	54.0	260	145	
FC C-6	CARRIER MMD-AP0484BH2UL-1	LEARNING STUDIO 165 AND CORRIDOR	1180	0.46	230	1	60	2.2	2.8	15	48.0	36.0	80	67	54.0	330	145	
FC C-7	CARRIER MMD-AP0484BH2UL-1	LEARNING STUDIO 169	1180	0.46	230	1	60	2.2	2.8	15	48.0	36.0	80	67	54.0	185	145	
FC C-8	CARRIER MMD-AP0966HP-UIL	COLLABORATION SPACE 199	2825	1.0	230	1	60	5.9	7.4	15	96.0	80.6	80	67	108.0	390	260	
FC C-9	CARRIER MMD-AP0966HP-UIL	COLLABORATION SPACE 175	2825	1.0	230	1	60	5.9	7.4	15	96.0	80.6	80	67	108.0	355	260	
FC C-10	CARRIER MMD-AP0484BH2UL-1	LEARNING STUDIO 172	1180	0.46	230	1	60	2.2	2.8	15	48.0	36.0	80	67	54.0	200	145	
FC C-11																		
FC C-12	CARRIER MMD-AP0484BH2UL-1	LEARNING STUDIO 170	1180	0.46	230	1	60	2.5	3.1	15	48.1	36.1	80	67	54.2	190	135	
FC C-13	CARRIER MMD-AP0484BH2UL-1	LOWER SDC CLASSROOM 176	1180	0.46	230	1	60	2.2	2.8	15	48.0	36.0	80	67	54.0	205	145	
FC C-14	CARRIER MMD-AP0484BH2UL-1	LEARNING STUDIO 171	1180	0.46	230	1	60	2.2	2.8	15	48.0	36.0	80	67	54.0	200	145	
FC C-15																		
FC C-16																		
FC C-17	CARRIER MMD-AP0484BH2UL-1	LEARNING STUDIO 188	1180	0.46	230	1	60	2.2	2.8	15	48.0	36.0	80	67	54.0	205	145	
FC C-18	CARRIER MMD-AP0484BH2UL-1	LEARNING STUDIO 189	1180	0.46	230	1	60	2.2	2.8	15	48.0	36.0	80	67	54.0	270	145	
FC C-19	CARRIER MMD-AP0484BH2UL-1	LEARNING STUDIO 192	1180	0.46	230	1	60	2.2	2.8	15	48.0	36.0	80	67	54.0	200	145	
FC C-20	CARRIER MMD-AP0484BH2UL-1	LEARNING STUDIO 192	1180	0.46	230	1	60	2.2	2.8	15	48.0	36.0	80	67	54.0	200	145	
FC C-21	CARRIER MMD-AP0966HP-UIL	COLLABORATION SPACE 199	2825	1.0	230	1	60	5.9	7.4	15	96.0	80.6	80	67	108.0	390	260	
	CARRIER MMD-AP0484BH2UL-1	LEARNING STUDIO 191	1180	0.46	230	1	60	2.2	2.8	15	48.0	36.0	80	67	54.0	190	145	
	CARRIER MMD-AP0966HP-UIL	SHARED ACADEMIC ENTRY 201	2825	1.0	230	1	60	5.9	7.4	15	96.0	80.6	80	67	108.0	385	260	

DUCTLESS FAN COIL UNIT SCHEDULE

SYMBOL	MAKE AND MODEL	SERVES	INDOOR UNIT					OUTDOOR UNIT						COOLING CAPACITY (MBH)					HEATING CAPACITY (MBH)			REFRIGERANT		REMARKS
			CFM	DRIVE	V	PH	OPER. WEIGHT	SYMBOL	MAKE AND MODEL	MCA	MOP	V	PH	OPER. WEIGHT	TOTAL	SENS.	AMB °F	ENT. DB °F	ENT. WB °F	AMB °F	EDB	TOTAL CAP. MBH	TYPE	CHARGE (LBS.)	
DFC C-1	CARRIER 40MAQB24B-3	IDF 162	800	DIRECT	230	1	50	CU C-1	CARRIER 38MAQB24R-3	20	30	230	1	175	24.0	18.0	95	80	67	47	70	24.0	R410A	5.73	
DFC C-2	CARRIER 40MAQB24B-3	ELECTRICAL 161	800	DIRECT	230	1	50	CU C-2	CARRIER 38MAQB24R-3	20	30	230	1	175	24.0	18.0	95	80	67	47	70	24.0	R410A	5.73	
DFC C-3	CARRIER 40MAQB24B-3	IDF C203	800	DIRECT	230	1	50	CU C-3	CARRIER 38MAQB24R-3	20	30	230	1	175	24.0	18.0	95	80	67	47	70	24.0	R410A	5.73	
DFC C-4	CARRIER 40MAQB24B-3	ELECTRICAL C212	800	DIRECT	230	1	50	CU C-4	CARRIER 38MAQB24R-3	20	30	230	1	175	24.0	18.0	95	80	67	47	70	24.0	R410A	5.73	
DFC C-5	CARRIER 40MAQB24B-3	ELECTRICAL C245	800	DIRECT	230	1	50	CU C-5	CARRIER 38MAQB24R-3	20	30	230	1	175	24.0	18.0	95	80	67	47	70	24.0	R410A	5.73	
DFC C-6	CARRIER 40MAQB24B-3	IDF C251	800	DIRECT	230	1	50	CU C-6	CARRIER 38MAQB24R-3	20	30	230	1	175	24.0	18.0	95	80	67	47	70	24.0	R410A	5.73	

VRF HEAT RECOVERY BOX SCHEDULE

SYMBOL	MAKE AND MODEL	FAN COILS SERVED	ELECTRICAL DATA				OPER. WEIGHT	REMARKS
			MCA	V	PH	Hz		
HRB C-1	CARRIER RBM-Y0611F4PUL	FC'S C-1 AND C-2	0.7	208	1	60	100	
HRB C-2	CARRIER RBM-Y0611F4PUL	FC'S C-3, C-4, AND C-6	0.7	208	1	60	100	
HRB C-3	CARRIER RBM-Y0611F4PUL	FC'S C-5 AND C-7	0.7	208	1	60	100	
HRB C-4	CARRIER RBM-Y0611F4PUL	FC'S C-8 THROUGH C-10	0.7	208	1	60	100	
HRB C-5	CARRIER RBM-Y0611F4PUL	FC'S C-11 AND C-12	0.7	208	1	60	100	
HRB C-6	CARRIER RBM-Y0611F4PUL	FC'S C-13 THROUGH C-15	0.7	208	1	60	100	
HRB C-7	CARRIER RBM-Y0611F4PUL	FC'S C-16 THROUGH C-18	0.7	208	1	60	100	
HRB C-8	CARRIER RBM-Y0611F4PUL	FC'S C-19 THROUGH C-21	0.7	208	1	60	100	
HRB C-9	CARRIER RBM-Y0611F4PUL	FC'S C-22 AND C-23	0.7	208	1	60	100	

EXHAUST FAN SCHEDULE

SYMBOL	MAKE AND MODEL	CFM	DRIVE	ESP (IN. W.G.)	RPM	MIN. WHEEL DIA.	MOTOR				OPER. WEIGHT	REMARKS
							BHP	MAX.HP	V	PH		
EF C-1	GREENHECK CUE-121-VG	1420	DIRECT	0.5	1429	13.063	0.26	0.5	115	1	65	
EF C-2												
EF C-3	GREENHECK CUE-090-VG	740	DIRECT	0.3	1699	10.876	0.1	0.1	115	1	40	

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MECHANICAL SCHEDULES

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VRF HEAT RECOVERY UNIT SCHEDULE

SYMBOL	MAKE AND MODEL	FAN COILS SERVED	ELECTRICAL DATA															CAPACITY				REFRIGERANT			REMARKS
			V	PH	Hz	MCA FRAME 1	MCA FRAME 2	MCA FRAME 3	MOP FRAME 1	MOP FRAME 2	MOP FRAME 3	COMPRESSOR MOTOR OUTPUT (kW) 1 COMP. A	1 COMP. B	2 COMP. A	2 COMP. B	3 COMP. A	3 COMP. B	COOLING TOTAL (MBH)	COOLING AMB °F	HEATING OUPUT (MBH)	HEATING AMB °F	TYPE	MIN. CHARGE (LBS.)	OPER. WEIGHT	
HRU M-1	CARRIER MMY-AP4566FT6P-UL	FC's M-1 THROUGH M-7	460	3	60	29.7	23.4	23.4	35	30	30	6.5	6.5	5.4	5.4	5.4	5.4	430	95	485	47	R410A	72.9	3015	
HRU M-2	CARRIER MMY-AP4566FT6P-UL	FC's M-8 THROUGH M-13	460	3	60	29.7	23.4	23.4	35	30	30	6.5	6.5	5.4	5.4	5.4	5.4	430	95	485	47	R410A	72.9	3015	

VRF FAN COIL UNIT SCHEDULE

SYMBOL	MAKE AND MODEL	SERVES	INDOOR FAN SECTION								CAPACITY (MBH)					MIN. OA CFM	OPER. WEIGHT	REMARKS
			INDOOR FAN MOTOR								COOLING				HEATING			
			CFM	ESP	V	PH	Hz	FLA	MCA	MOP	TOTAL	SENS.	ENT. DB °F	ENT. WB °F				
FC M-1	CARRIER MMD-AP0966HP-UL	INNOVATION CENTER 240	2825	1.0	230	1	60	5.9	7.4	15	96.0	80.6	80	67	108.0	275	260	
FC M-2	CARRIER MMD-AP0966HP-UL	INNOVATION CENTER 240	2825	1.0	230	1	60	5.9	7.4	15	96.0	80.6	80	67	108.0	355	260	
FC M-3	CARRIER MMD-AP0726HP-UL	ART STUDIO 237	2335	1.0	230	1	60	4.6	5.7	15	72.0	60.1	80	67	81.0	250	260	
FC M-4	CARRIER MMD-AP0726HP-UL	SCIENCE LAB 238	2335	1.0	230	1	60	4.6	5.7	15	72.0	60.1	80	67	81.0	250	260	
FC M-5	CARRIER MMD-AP0726HP-UL	MUSIC STUDIO 239	2335	1.0	230	1	60	4.6	5.7	15	72.0	60.1	80	67	81.0	250	260	
FC M-6	CARRIER MMD-AP0966HP-UL	MULTI USE ROOM 147	2825	1.0	230	1	60	5.9	7.4	15	96.0	80.6	80	67	108.0	285	260	
FC M-7	CARRIER MMD-AP0726HP-UL	MULTI USE ROOM 147	2335	1.0	230	1	60	4.6	5.7	15	72.0	60.1	80	67	81.0	295	260	
FC M-8	CARRIER MMD-AP0966HP-UL	MULTI USE ROOM 147	2825	1.0	230	1	60	5.9	7.4	15	96.0	80.6	80	67	108.0	360	260	
FC M-9	CARRIER MMD-AP0966HP-UL	MULTI USE ROOM 147	2825	1.0	230	1	60	5.9	7.4	15	96.0	80.6	80	67	108.0	270	260	
FC M-10	CARRIER MMD-AP0484BH2UL-1	KITCHEN AND SERVERY	1180	0.46	230	1	60	2.2	2.8	15	48.0	36.0	80	67	54.0	200	145	
FC M-11	CARRIER MMD-AP0484BH2UL-1	RESTROOMS AND PTA	1180	0.46	230	1	60	2.2	2.8	15	48.0	36.0	80	67	54.0	180	145	
FC M-12	CARRIER MMD-AP0726HP-UL	LOBBY 135	2335	1.0	230	1	60	4.6	5.7	15	72.0	60.1	80	67	81.0	225	260	

DUCTLESS FAN COIL UNIT SCHEDULE

SYMBOL	MAKE AND MODEL	SERVES	INDOOR UNIT					OUTDOOR UNIT						COOLING CAPACITY (MBH)					HEATING CAPACITY (MBH)			REFRIGERANT		REMARKS
			CFM	DRIVE	V	PH	OPER. WEIGHT	SYMBOL	MAKE AND MODEL	MCA	MOP	V	PH	OPER. WEIGHT	TOTAL	SENS.	AMB °F	ENT. DB °F	ENT. WB °F	AMB °F	EDB	TOTAL CAP. MBH	TYPE	CHARGE (LBS.)	
DFC M-1	CARRIER 40MAQB24B-3	ELECT 235	800	DIRECT	230	1	50	CU M-1	CARRIER 38MAQB24R-3	20	30	230	1	175	24.0	18.0	95	80	67	47	70	24.0	R410A	5.73	
DFC M-2	CARRIER 40MAQB24B-3	IDF 236	800	DIRECT	230	1	50	CU M-2	CARRIER 38MAQB24R-3	20	30	230	1	175	24.0	18.0	95	80	67	47	70	24.0	R410A	5.73	

VRF HEAT RECOVERY BOX SCHEDULE

SYMBOL	MAKE AND MODEL	FAN COILS SERVED	ELECTRICAL DATA				OPER. WEIGHT	REMARKS
			MCA	V	PH	Hz		
HRB M-1	CARRIER RBM-Y0611F4PUL	FC's M-1 THROUGH M-3	0.7	208	1	60	100	
HRB M-2	CARRIER RBM-Y0611F4PUL	FC's M-4 THROUGH M-6	0.7	208	1	60	100	
HRB M-3	CARRIER RBM-Y0611F4PUL	FC's M-7 THROUGH M-10	0.7	208	1	60	100	
HRB M-4	CARRIER RBM-Y0611F4PUL	FC's M-11 THROUGH M-12	0.7	208	1	60	100	

SUPPLY FAN SCHEDULE

SYMBOL	MAKE AND MODEL	CFM	DRIVE	ESP (IN. W.G.)	RPM	MIN. WHEEL DIA.	MOTOR				OPER. WEIGHT	REMARKS
							BHP	MAX HP	V	PH		
SF M-1	GREENHECK SQ-130-VG	1620	DIRECT	1.0	1648	13.125	0.53	3/4	115	1	80	
SF M-2	GREENHECK SQ-160-VG	5430	DIRECT	1.0	1584	16.75	1.43	2	208	1	175	

EXHAUST FAN SCHEDULE

SYMBOL	MAKE AND MODEL	CFM	DRIVE	ESP (IN. W.G.)	RPM	MIN. WHEEL DIA.	MOTOR				OPER. WEIGHT	REMARKS
							BHP	MAX HP	V	PH		
EF M-1	GREENHECK SQ-130HP-VG	1210	DIRECT	1.0	1940	13.125	0.51	3/4	115	1	55	
EF M-2	GREENHECK SQ-90-VG	400	DIRECT	0.3	1409	10.876	0.05	1/10	115	1	60	
EF M-3	GREENHECK SQ-90-VG	400	DIRECT	0.3	1409	10.876	0.05	1/10	115	1	60	
EF M-4	GREENHECK SP-A90	80	DIRECT	0.2	900	5.5	16W	--	115	1	15	

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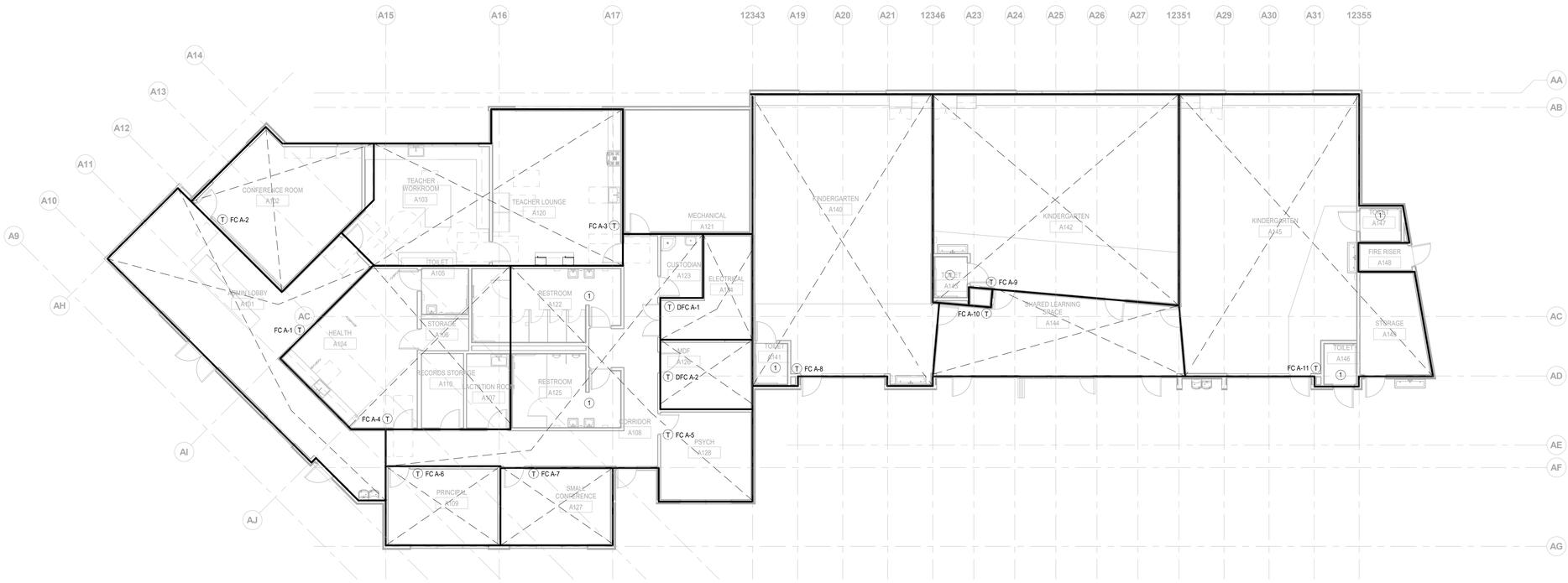
MECHANICAL SCHEDULES

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1 BLDG A MECHANICAL ZONING PLAN

1/8" = 1'-0"

0' 4' 8' 16'

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEY NOTES

1 PROVIDE EXHAUST FOR RESTROOM.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.

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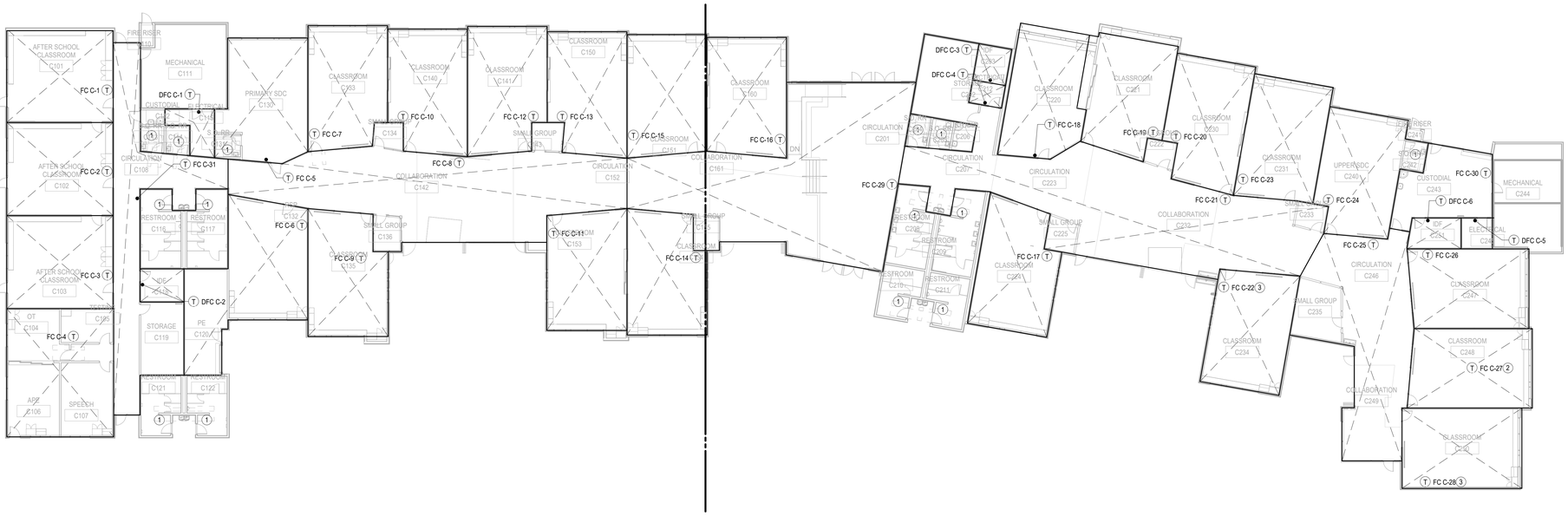
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MECHANICAL ZONING PLAN

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1 MECHANICAL ZONING PLAN

1/16" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT
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KEY NOTES

#	
1	PROVIDE EXHAUST FOR RESTROOM.
2	PROVIDE SENSOR IN RETURN.
3	THERMALLY BREAK THERMOSTAT.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.

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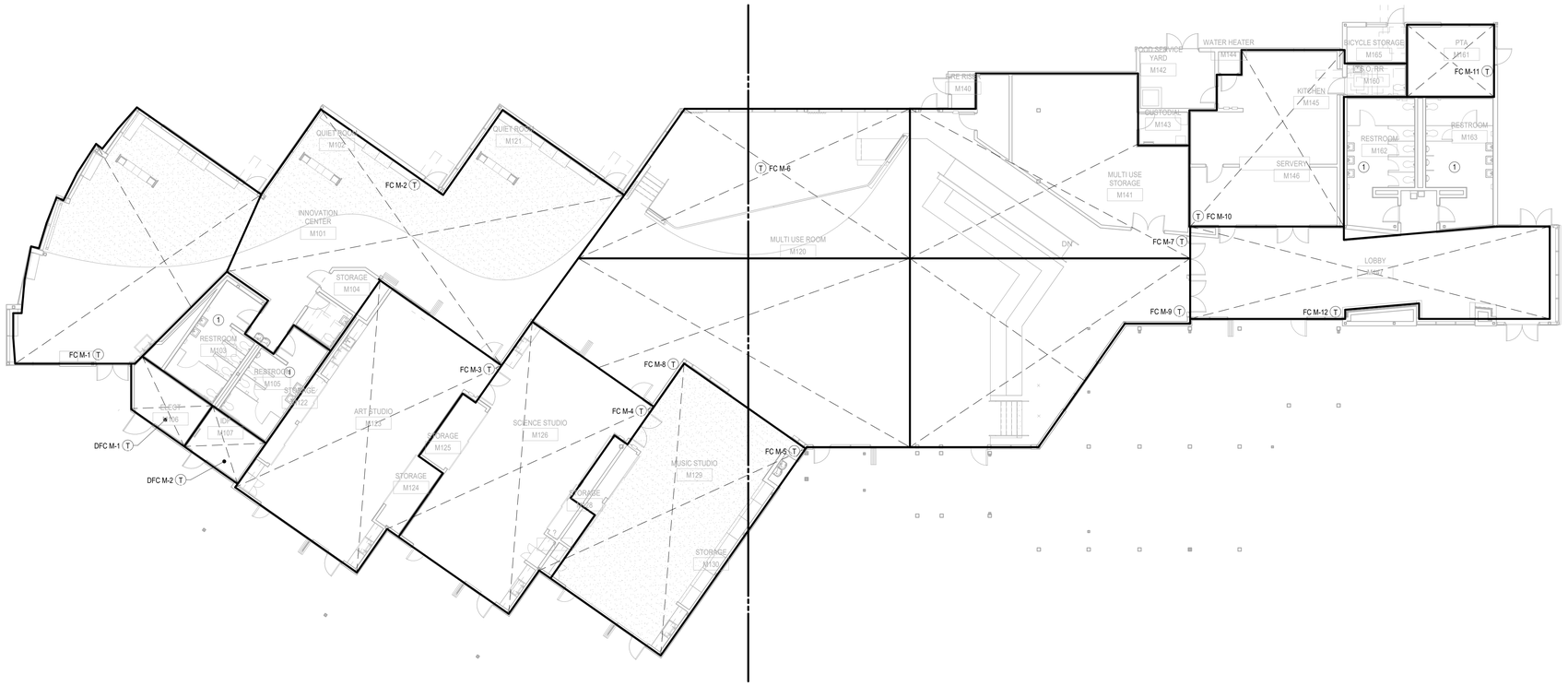
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MECHANICAL ZONING PLAN

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1 MECHANICAL ZONING PLAN

3/32" = 1'-0"

2' 4' 8' 16'

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DEL MAR UNION SCHOOL DISTRICT
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KEY NOTES

1 PROVIDE EXHAUST FOR RESTROOM.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.

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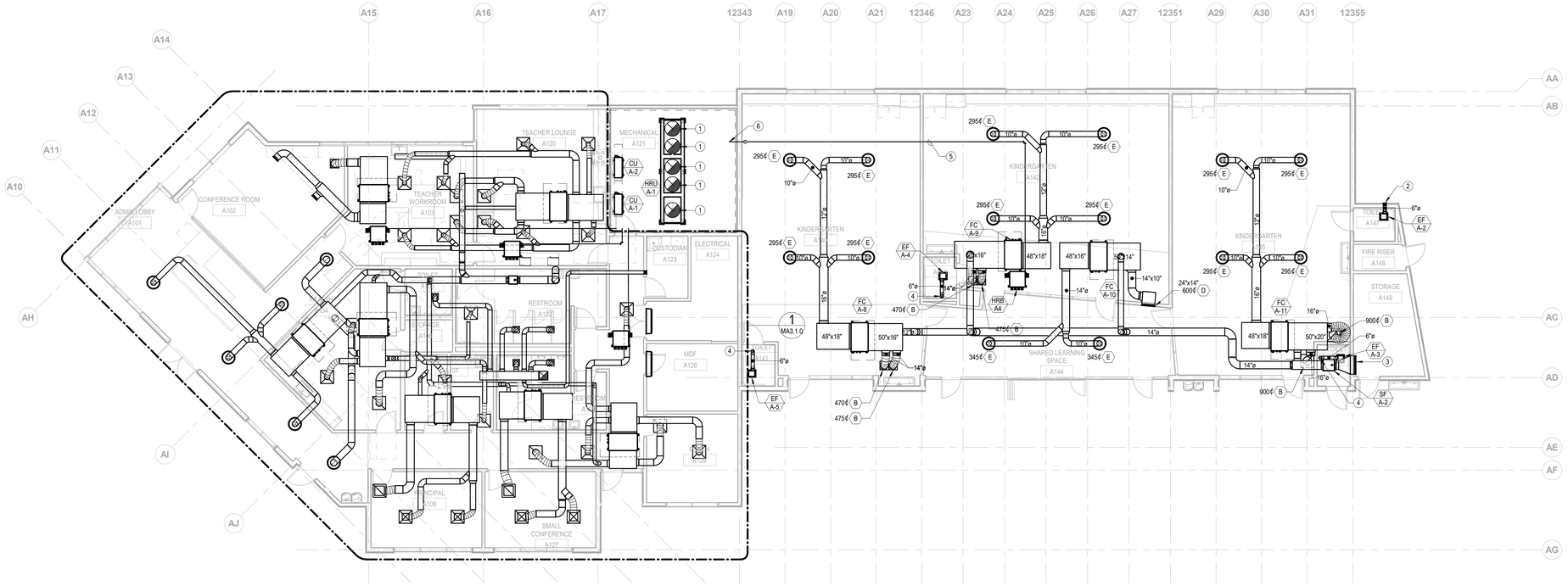
MECHANICAL ZONING PLAN

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1 MECHANICAL FLOOR PLAN
BLDG A
1/8" = 1'-0"

0' 4' 8' 16'

VARIABLE REFRIGERANT FLOW NOTE

1. THE VRF PIPING LAYOUT IS ONLY FOR DIAGRAMMATICAL PURPOSES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE FINAL LAYOUT BASED ON ACTUAL ROUTING AND SIZING WITH THE VRF MANUFACTURER. THIS COORDINATION INCLUDES FINAL ROUTING AND FINAL PIPE PATH LENGTHS, QUANTITY AND TYPE OF ELBOWS, AND VRF EQUIPMENT LOCATIONS RELATIVE TO EACH OTHER (E.G. DISTANCE FROM OUTDOOR CONDENSER TO BRANCH BOX). ASHRAE 15 MAXIMUM REFRIGERANT CALCULATIONS SHALL BE PROVIDED BY THE CONTRACTOR BASED ON THE FINAL LAYOUT OF THE PIPING DISTRIBUTION SYSTEM TO EACH ZONE. THIS SHALL BE SUBMITTED AS PART OF THE SHOP DRAWING SUBMITTALS. VRF PIPING SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL BY THE VRF MANUFACTURER, EOR AND THE DISTRICT PRIOR TO PURCHASE AND INSTALL. IF THE VRF SYSTEM BASIS OF DESIGN AS SCHEDULED IS CHANGED, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO INCUR THE COSTS ASSOCIATED WITH REDESIGNING AND ACQUIRING PERMIT AND/OR APPROVAL FOR THE DESIGN CHANGE. ALL VRF PIPING MUST BE LABELED.

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DEL MAR UNION SCHOOL DISTRICT
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KEY NOTES

#	
1	SHEETMETAL STACK FROM CONDENSER FAN. SIZE BASED ON FAN SHROUD DIAMETER AND DISTANCE TO 6" ABOVE THE TOP OF THE HIGHEST WALL.
2	MIN. 0.12 SF FREE AREA EXHAUST LOUVER.
3	MIN. 2.86 SF FREE AREA INTAKE LOUVER HIGH ON WALL ABOVE STORAGE ROOM ROOF.
4	6"ø UTR TO GOOSENECK.
5	RS/RL SIZED PER MANUFACTURER INSTALLATION INSTRUCTIONS.
6	CONNECT TO HRU PER MANUFACTURER INSTALLATION INSTRUCTIONS.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.

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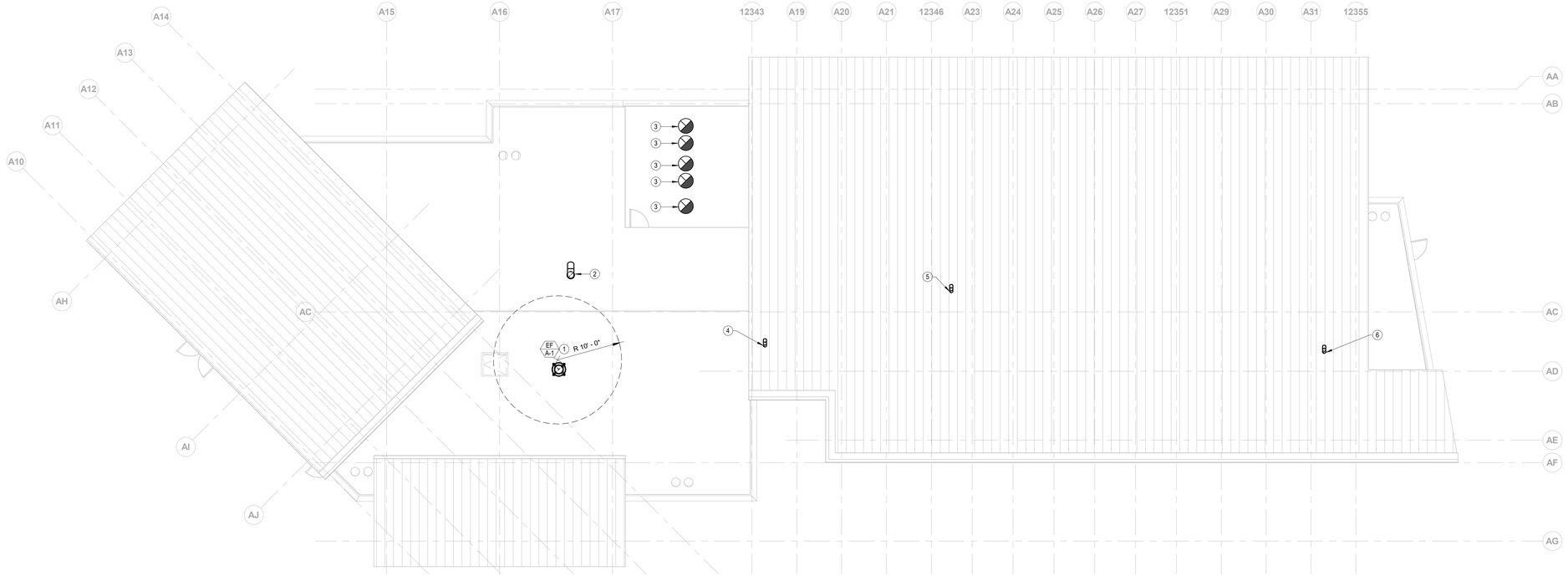
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MECHANICAL FLOOR PLAN

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1 BLDG A MECHANICAL ROOF PLAN

1/8" = 1'-0"

0' 4' 8' 16'

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DEL MAR UNION SCHOOL DISTRICT
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KEY NOTES

#	
1	MAINTAIN MIN. 10' DISTANCE FROM EXHAUST TO ANY AIR INTAKE.
2	14"ø OA DOWN TO SF A-1.
3	SHEETMETAL STACK FROM CONDENSER FAN. SIZE BASED ON FAN SHROUD DIAMETER AND DISTANCE TO 6" ABOVE THE TOP OF THE HIGHEST WALL.
4	6"ø EA DOWN TO EF A-5.
5	6"ø EA DOWN TO EF A-4.
6	6"ø EA DOWN TO EF A-3.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.

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M34498
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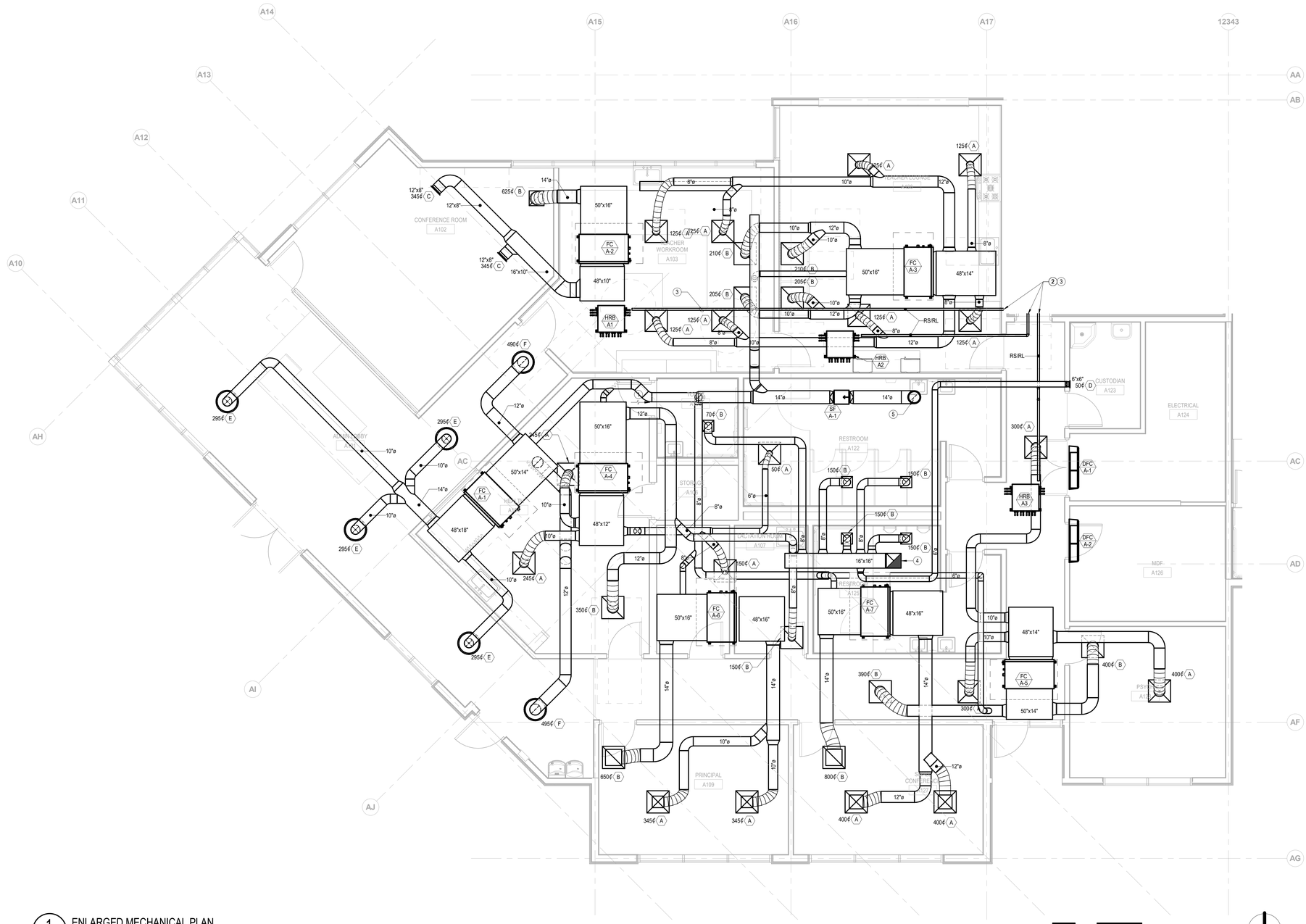
MECHANICAL ROOF PLAN

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VARIABLE REFRIGERANT FLOW NOTE

1. THE VRF PIPING LAYOUT IS ONLY FOR DIAGRAMMATICAL PURPOSES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE FINAL LAYOUT BASED ON ACTUAL ROUTING AND SIZING WITH THE VRF MANUFACTURER. THIS COORDINATION INCLUDES FINAL ROUTING AND FINAL PIPE PATH LENGTHS, QUANTITY AND TYPE OF ELBOWS, AND VRF EQUIPMENT LOCATIONS RELATIVE TO EACH OTHER (E.G. DISTANCE FROM OUTDOOR CONDENSER TO BRANCH BOX). ASHRAE 15 MAXIMUM REFRIGERANT CALCULATIONS SHALL BE PROVIDED BY THE CONTRACTOR BASED ON THE FINAL LAYOUT OF THE PIPING DISTRIBUTION SYSTEM TO EACH ZONE. THIS SHALL BE SUBMITTED AS PART OF THE SHOP DRAWING SUBMITTALS. VRF PIPING SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL BY THE VRF MANUFACTURER, EOR AND THE DISTRICT PRIOR TO PURCHASE AND INSTALL. IF THE VRF SYSTEM BASIS OF DESIGN AS SCHEDULED IS CHANGED, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO INCUR THE COSTS ASSOCIATED WITH REDESIGNING AND ACQUIRING PERMIT AND/OR APPROVAL FOR THE DESIGN CHANGE. ALL VRF PIPING MUST BE LABELED.

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEY NOTES

#	
1	UNDERCUT DOOR 1".
2	CONNECT TO HRU PER MANUFACTURER INSTALLATION INSTRUCTIONS.
3	RS/RL SIZED PER MANUFACTURER INSTALLATION INSTRUCTIONS.
4	16x16 UTR TO EF A-1.
5	12"ø OA UTR TO GOOSENECK.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.

B. ALL REFRIGERANT PIPING WILL BE COORDINATED WITH AND SIZED PER MANUFACTURER. PROVIDE SHOP DRAWINGS TO EOR PRIOR TO ORDERING OR FABRICATING AN RS/RL PIPING.

MA ENGINEERS
5160 Carroll Canyon Rd, Suite 200
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T 858.200-0030 F 858.200-0037
www.ma-engr.com

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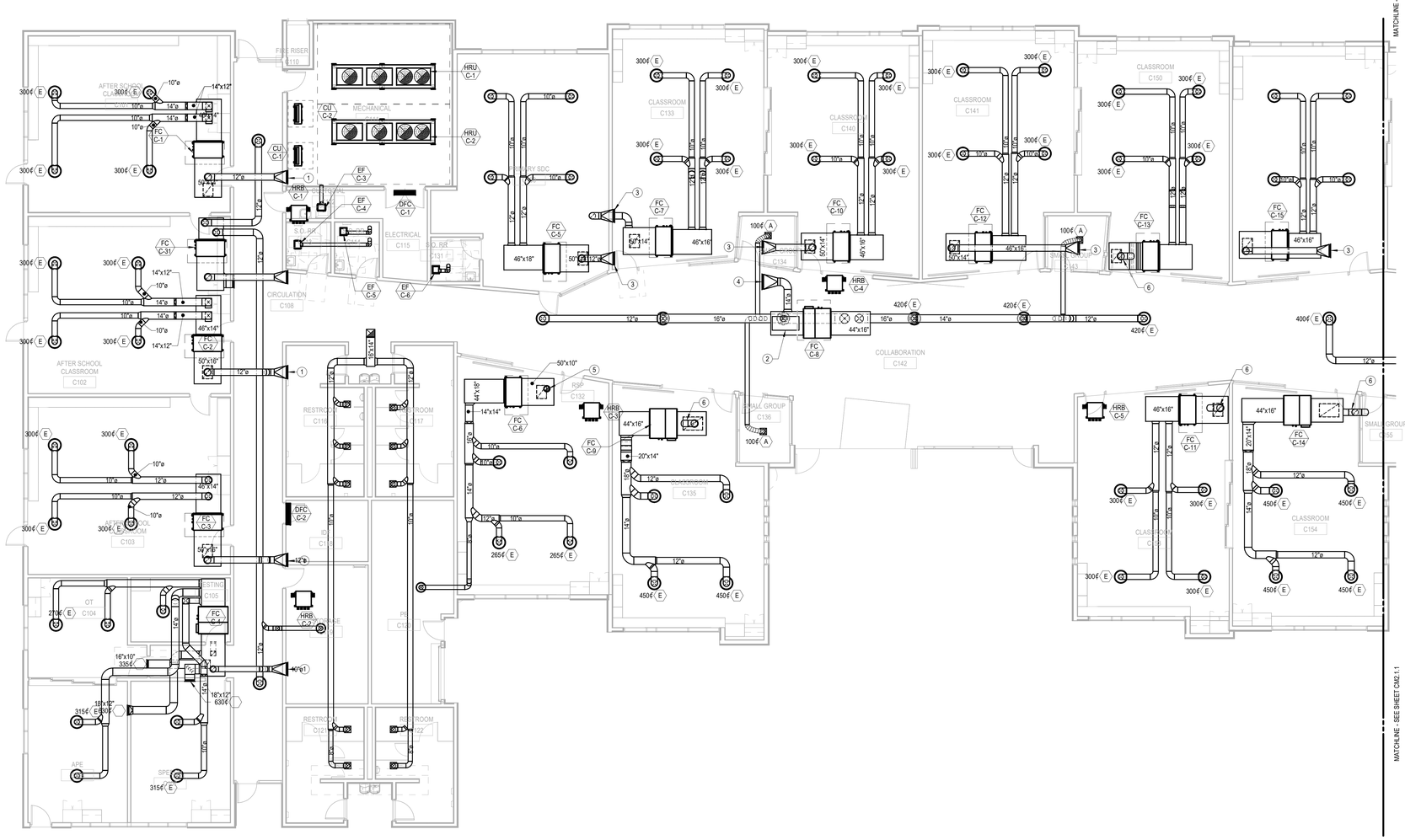
MECHANICAL ENLARGED PLAN

NO.	DATE	ISSUE

PROJECT NO: 000000
DATE: 00/00/0000

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1 MECHANICAL FLOOR PLAN - NORTH

1/8" = 1'-0"

0' 4' 8' 16'

VARIABLE REFRIGERANT FLOW NOTE

1. THE VRF PIPING LAYOUT IS ONLY FOR DIAGRAMMATICAL PURPOSES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE FINAL LAYOUT BASED ON ACTUAL ROUTING AND SIZING WITH THE VRF MANUFACTURER. THIS COORDINATION INCLUDES FINAL ROUTING AND FINAL PIPE PATH LENGTHS, QUANTITY AND TYPE OF ELBOWS, AND VRF EQUIPMENT LOCATIONS RELATIVE TO EACH OTHER (E.G. DISTANCE FROM OUTDOOR CONDENSER TO BRANCH BOX). ASHRAE 15 MAXIMUM REFRIGERANT CALCULATIONS SHALL BE PROVIDED BY THE CONTRACTOR BASED ON THE FINAL LAYOUT OF THE PIPING DISTRIBUTION SYSTEM TO EACH ZONE. THIS SHALL BE SUBMITTED AS PART OF THE SHOP DRAWING SUBMITTALS. VRF PIPING SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL BY THE VRF MANUFACTURER, EOR AND THE DISTRICT PRIOR TO PURCHASE AND INSTALL. IF THE VRF SYSTEM BASIS OF DESIGN AS SCHEDULED IS CHANGED, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO INCUR THE COSTS ASSOCIATED WITH REDESIGNING AND ACQUIRING PERMIT AND/OR APPROVAL FOR THE DESIGN CHANGE. ALL VRF PIPING MUST BE LABELED.
2. PRIOR TO INSTALLATION, CONTRACTOR TO UNDERGO TRAINING PER VRF MANUFACTURER. ONLY THOSE CERTIFIED BY THE MANUFACTURER MAY INSTALL VRF PIPING.

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731 Ninth Avenue, Suite A, San Diego, California 92101
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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEY NOTES

#	
1	MIN. 1.0 SF FREE AREA INTAKE LOUVER HIGH ON WALL. DAYLIGHT BETWEEN LOWER AND UPPER ROOF.
2	PROVIDE 48x24 SCREENED OPENING ON TOP OF PLENUM.
3	PROVIDE MIN. 1.3 SF FREE AREA INTAKE LOUVER.
4	PROVIDE MIN. 1.8 SF FREE AREA INTAKE LOUVER.
5	10"ø OA UTR TO GOOSENECK.
6	12"ø OA UTR TO GOOSENECK.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.

MA ENGINEERS
5160 Carroll Canyon Rd. Suite 200
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BLDG C

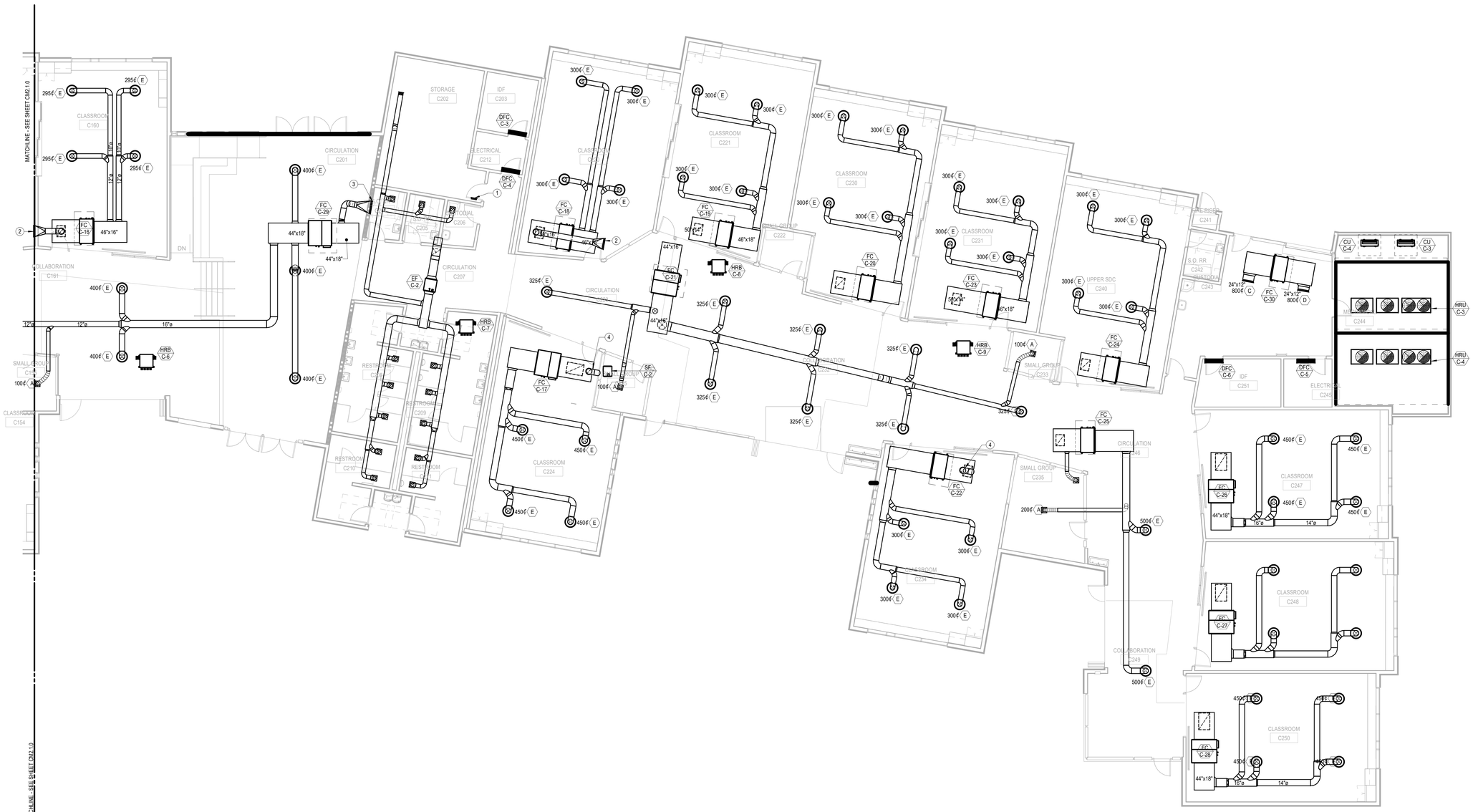
MECHANICAL FIRST FLOOR PLAN - WEST

NO. DATE ISSUE

PROJECT NO: 5003
DATE: Issue Date

DRAWING
MC2.1.0

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BIM 360://19009-00 Del Mar Heights ES\MECH-MAE-DMHS-BLDG C.rvt



1 MECHANICAL FLOOR PLAN - SOUTH

1/8" = 1'-0"

0' 4' 8' 16'

VARIABLE REFRIGERANT FLOW NOTE

1. THE VRF PIPING LAYOUT IS ONLY FOR DIAGRAMMATICAL PURPOSES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE FINAL LAYOUT BASED ON ACTUAL ROUTING AND SIZING WITH THE VRF MANUFACTURER. THIS COORDINATION INCLUDES FINAL ROUTING AND FINAL PIPE PATH LENGTHS, QUANTITY AND TYPE OF ELBOWS, AND VRF EQUIPMENT LOCATIONS RELATIVE TO EACH OTHER (E.G. DISTANCE FROM OUTDOOR CONDENSER TO BRANCH BOX). ASHRAE 15 MAXIMUM REFRIGERANT CALCULATIONS SHALL BE PROVIDED BY THE CONTRACTOR BASED ON THE FINAL LAYOUT OF THE PIPING DISTRIBUTION SYSTEM TO EACH ZONE. THIS SHALL BE SUBMITTED AS PART OF THE SHOP DRAWING SUBMITTALS. VRF PIPING SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL BY THE VRF MANUFACTURER, EOR AND THE DISTRICT PRIOR TO PURCHASE AND INSTALL. IF THE VRF SYSTEM BASIS OF DESIGN AS SCHEDULED IS CHANGED, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO INCUR THE COSTS ASSOCIATED WITH REDESIGNING AND ACQUIRING PERMIT AND/OR APPROVAL FOR THE DESIGN CHANGE. ALL VRF PIPING MUST BE LABELED.
2. PRIOR TO INSTALLATION, CONTRACTOR TO UNDERGO TRAINING PER VRF MANUFACTURER. ONLY THOSE CERTIFIED BY THE MANUFACTURER MAY INSTALL VRF PIPING.

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEY NOTES

#	
1	PROVIDE MIN. 0.5 SF FREE AREA DOOR LOUVER.
2	PROVIDE MIN. 1.3 SF FREE AREA INTAKE LOUVER.
3	PROVIDE MIN. 1.8 SF FREE AREA INTAKE LOUVER.
4	12"ø OA UTR TO GOOSENECK.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.

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5160 Carroll Canyon Rd, Suite 200
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T 858.200-0330 F 858.200-0037
www.ma-engr.com

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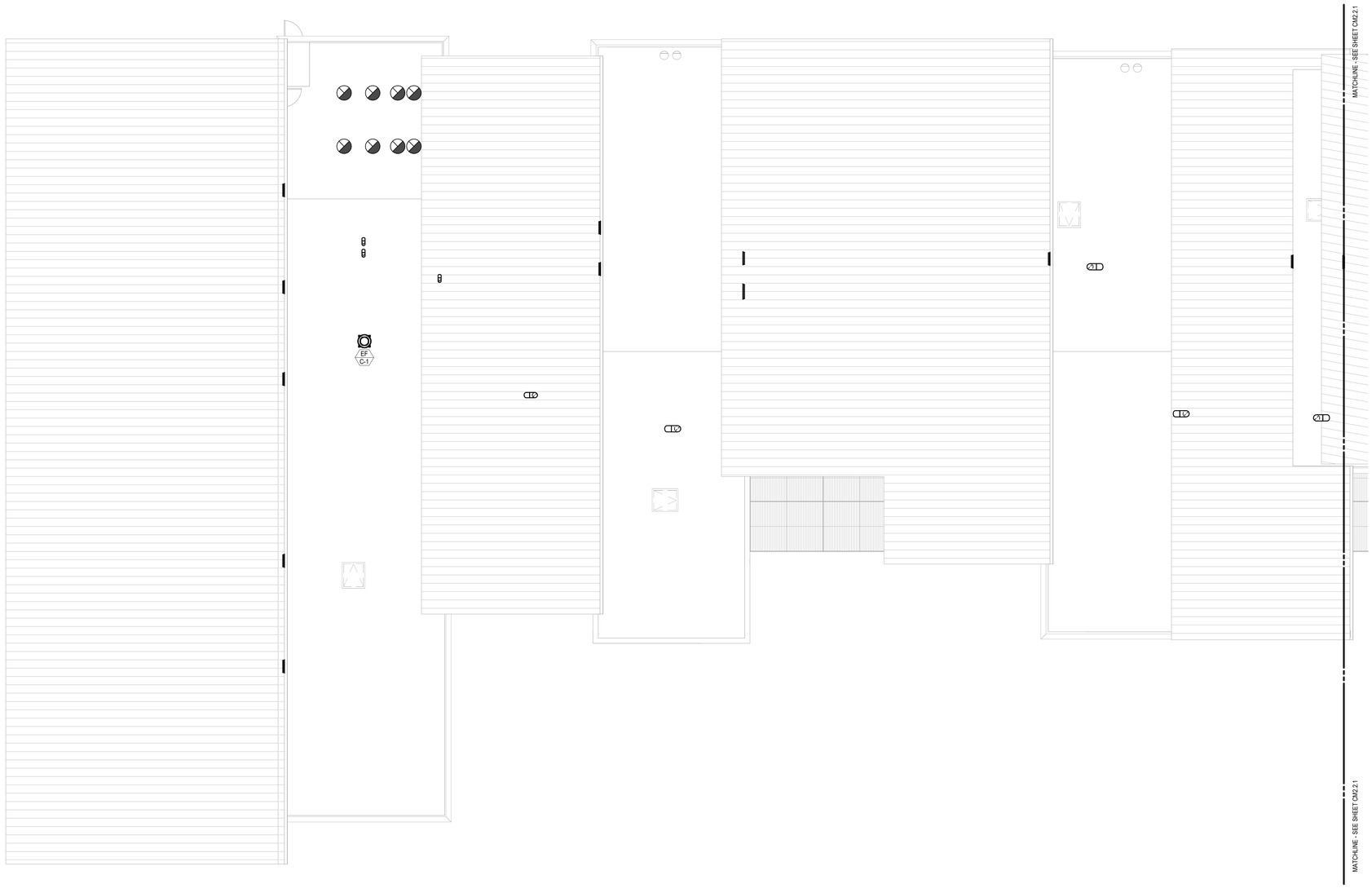
MECHANICAL FIRST FLOOR PLAN - EAST

NO.	DATE	ISSUE

PROJECT NO: 5003
DATE: Issue Date

DRAWING
MC2.1.1

2/13/2020 4:53:01 PM BIM 360://19009-00 Del Mar Heights ES/MECH-MAE-DMHS-BLDG C.rvt



1 MECHANICAL ROOF PLAN - NORTH
1/8" = 1'-0"

0' 4' 8' 16'

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEY NOTES

GENERAL NOTES

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MECHANICAL ROOF PLAN - WEST

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1 MECHANICAL ROOF PLAN - EAST

1/8" = 1'-0"

0' 4' 8' 16'

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEY NOTES

#	
1	SHEETMETAL STACK FROM CONDENSER FAN. SIZE BASED ON FAN SHROUD DIAMETER AND DISTANCE TO 6" ABOVE THE TOP OF THE HIGHEST WALL.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.

MA ENGINEERS
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MECHANICAL ROOF PLAN - EAST

NO.	DATE	ISSUE

PROJECT NO: 5003
DATE: Issue Date

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1 MECHANICAL FIRST FLOOR PLAN - AREA A

1/8" = 1'-0"

0' 4' 8' 16'

VARIABLE REFRIGERANT FLOW NOTE

1. THE VRF PIPING LAYOUT IS ONLY FOR DIAGRAMMATICAL PURPOSES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE FINAL LAYOUT BASED ON ACTUAL ROUTING AND SIZING WITH THE VRF MANUFACTURER. THIS COORDINATION INCLUDES FINAL ROUTING AND FINAL PIPE PATH LENGTHS, QUANTITY AND TYPE OF ELBOWS, AND VRF EQUIPMENT LOCATIONS RELATIVE TO EACH OTHER (E.G. DISTANCE FROM OUTDOOR CONDENSER TO BRANCH BOX). ASHRAE 15 MAXIMUM REFRIGERANT CALCULATIONS SHALL BE PROVIDED BY THE CONTRACTOR BASED ON THE FINAL LAYOUT OF THE PIPING DISTRIBUTION SYSTEM TO EACH ZONE. THIS SHALL BE SUBMITTED AS PART OF THE SHOP DRAWING SUBMITTALS. VRF PIPING SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL BY THE VRF MANUFACTURER, EOR AND THE DISTRICT PRIOR TO PURCHASE AND INSTALL. IF THE VRF SYSTEM BASIS OF DESIGN AS SCHEDULED IS CHANGED, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO INCUR THE COSTS ASSOCIATED WITH REDESIGNING AND ACQUIRING PERMIT AND/OR APPROVAL FOR THE DESIGN CHANGE. ALL VRF PIPING MUST BE LABELED.

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEY NOTES

#	
1	10x10 EA UTR TO EXHAUST LOUVER.
2	MIN. 0.28 SF FREE AREA INTAKE LOUVER HIGH ON WALL. DAYLIGHT BETWEEN LOWER AND UPPER ROOF.
3	22x22 OA UTR TO GOOSENECK.
4	RS/RL SIZED PER MANUFACTURER INSTALLATION INSTRUCTIONS.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.

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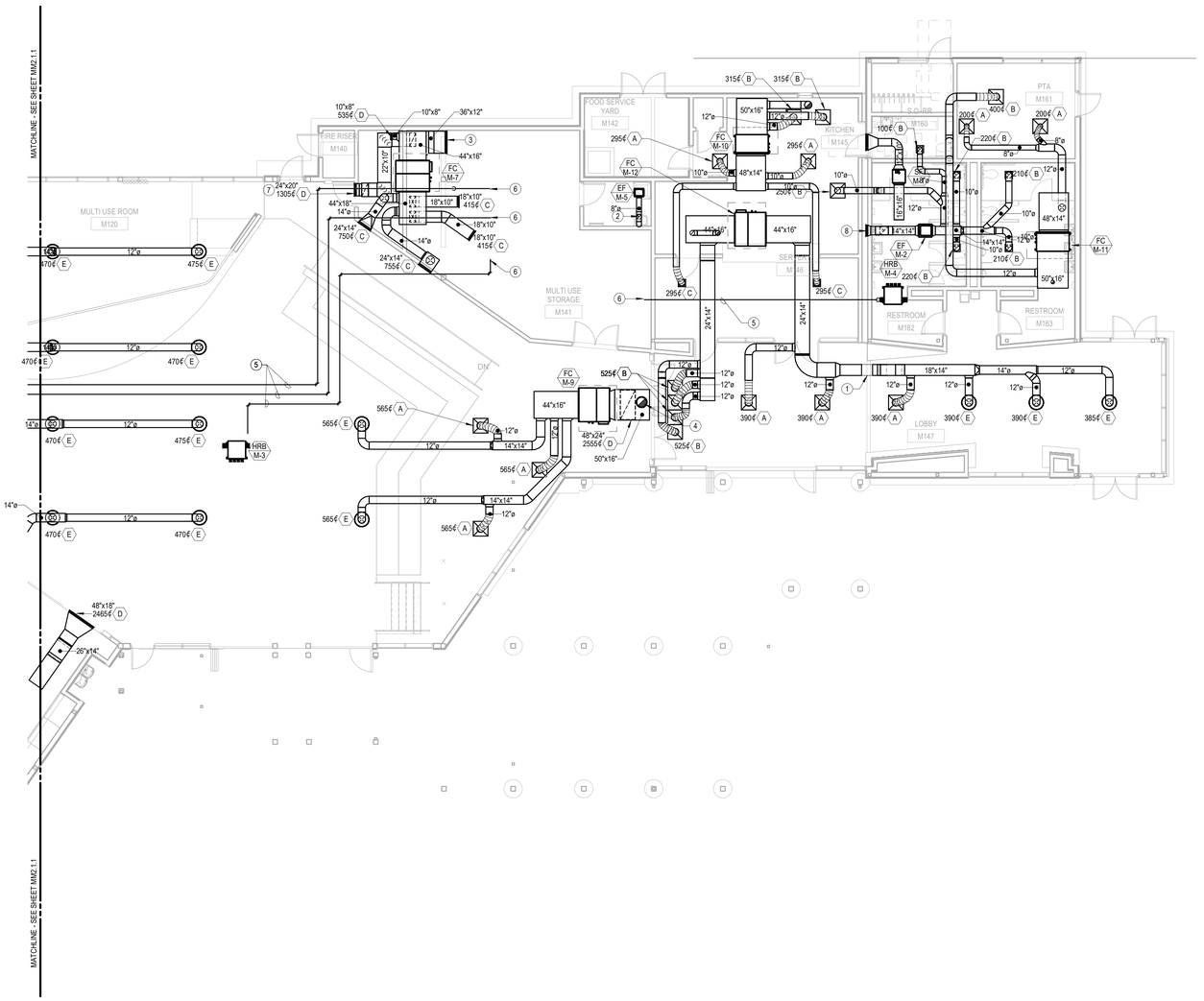
MECHANICAL FIRST FLOOR PLAN - AREA A

NO.	DATE	ISSUE

PROJECT NO: 5003
DATE: Issue Date

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1 MECHANICAL FIRST FLOOR PLAN - AREA B

1/8" = 1'-0"

0' 4' 8' 16'

VARIABLE REFRIGERANT FLOW NOTE

1. THE VRF PIPING LAYOUT IS ONLY FOR DIAGRAMMATICAL PURPOSES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE FINAL LAYOUT BASED ON ACTUAL ROUTING AND SIZING WITH THE VRF MANUFACTURER. THIS COORDINATION INCLUDES FINAL ROUTING AND FINAL PIPE PATH LENGTHS, QUANTITY AND TYPE OF ELBOWS, AND VRF EQUIPMENT LOCATIONS RELATIVE TO EACH OTHER (E.G. DISTANCE FROM OUTDOOR CONDENSER TO BRANCH BOX). ASHRAE 15 MAXIMUM REFRIGERANT CALCULATIONS SHALL BE PROVIDED BY THE CONTRACTOR BASED ON THE FINAL LAYOUT OF THE PIPING DISTRIBUTION SYSTEM TO EACH ZONE. THIS SHALL BE SUBMITTED AS PART OF THE SHOP DRAWING SUBMITTALS. VRF PIPING SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL BY THE VRF MANUFACTURER, EOR AND THE DISTRICT PRIOR TO PURCHASE AND INSTALL. IF THE VRF SYSTEM BASIS OF DESIGN AS SCHEDULED IS CHANGED, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO INCUR THE COSTS ASSOCIATED WITH REDESIGNING AND ACQUIRING PERMIT AND/OR APPROVAL FOR THE DESIGN CHANGE. ALL VRF PIPING MUST BE LABELED.

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEY NOTES

#	
1	RECTANGULAR FLEX DUCT.
2	8"ø EA UTR TO GOOSENECK.
3	MIN. 2.5 SF FREE AREA INTAKE LOUVER HIGH ON WALL. DAYLIGHT BETWEEN LOWER AND UPPER ROOF.
4	16"ø OA UTR TO GOOSENECK.
5	RS/RL SIZED PER MANUFACTURER INSTALLATION INSTRUCTIONS.
6	RS/RL TO MECHANICAL WELL. CONNECT TO HRU PER MANUFACTURER INSTALLATION INSTRUCTIONS.
7	INSTALL REGISTER AT 12" AFF.
8	MIN. 1.7 SF FREE AREA EXHAUST LOUVER.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.

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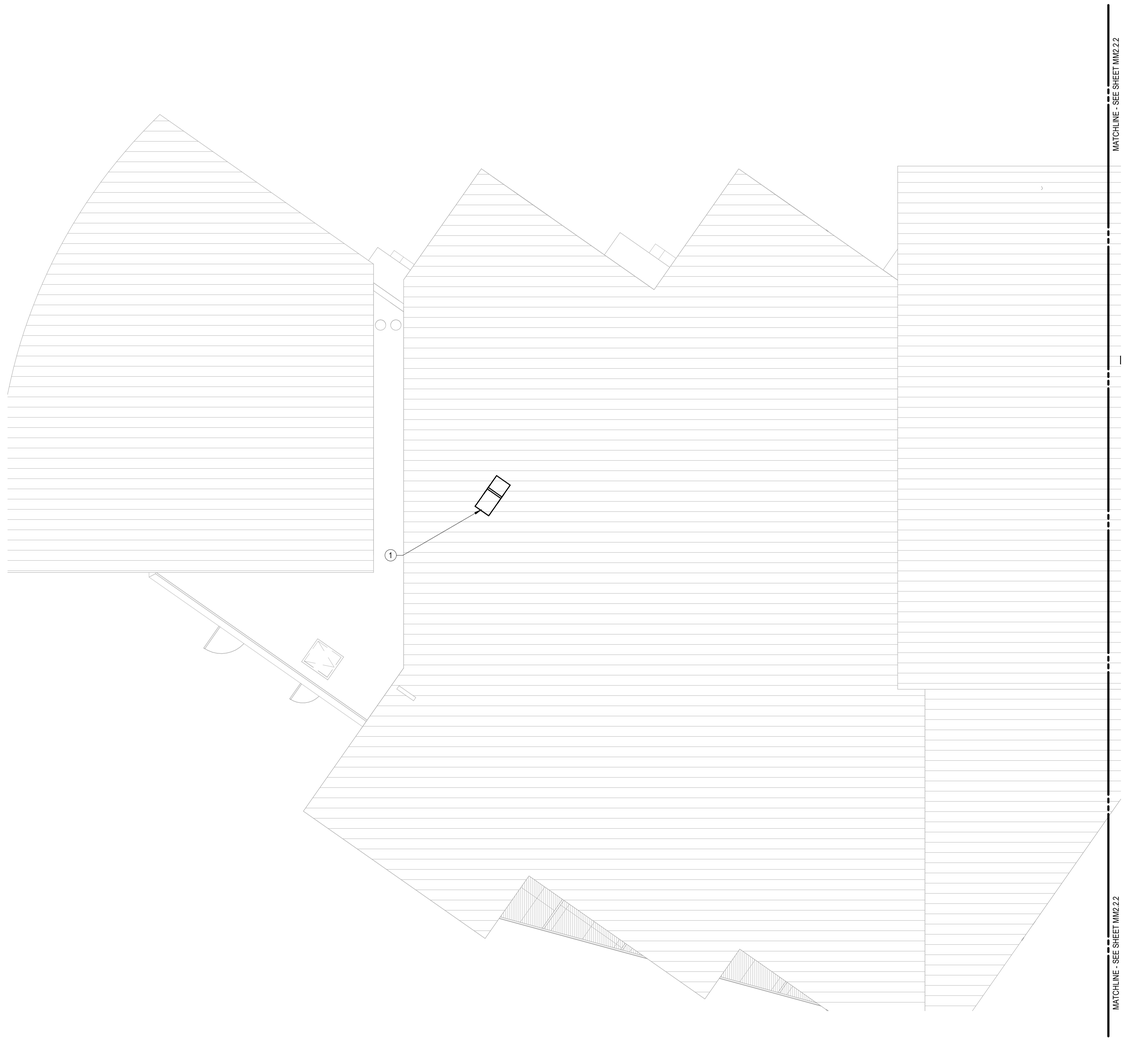
MECHANICAL FIRST FLOOR PLAN - AREA B

NO.	DATE	ISSUE

PROJECT NO: 5003
DATE: Issue Date

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1 MECHANICAL ROOF PLAN - AREA A

1/8" = 1'-0"

0' 4' 8' 16'

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEY NOTES

1 22x22 OA DOWN TO SF M-2.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.

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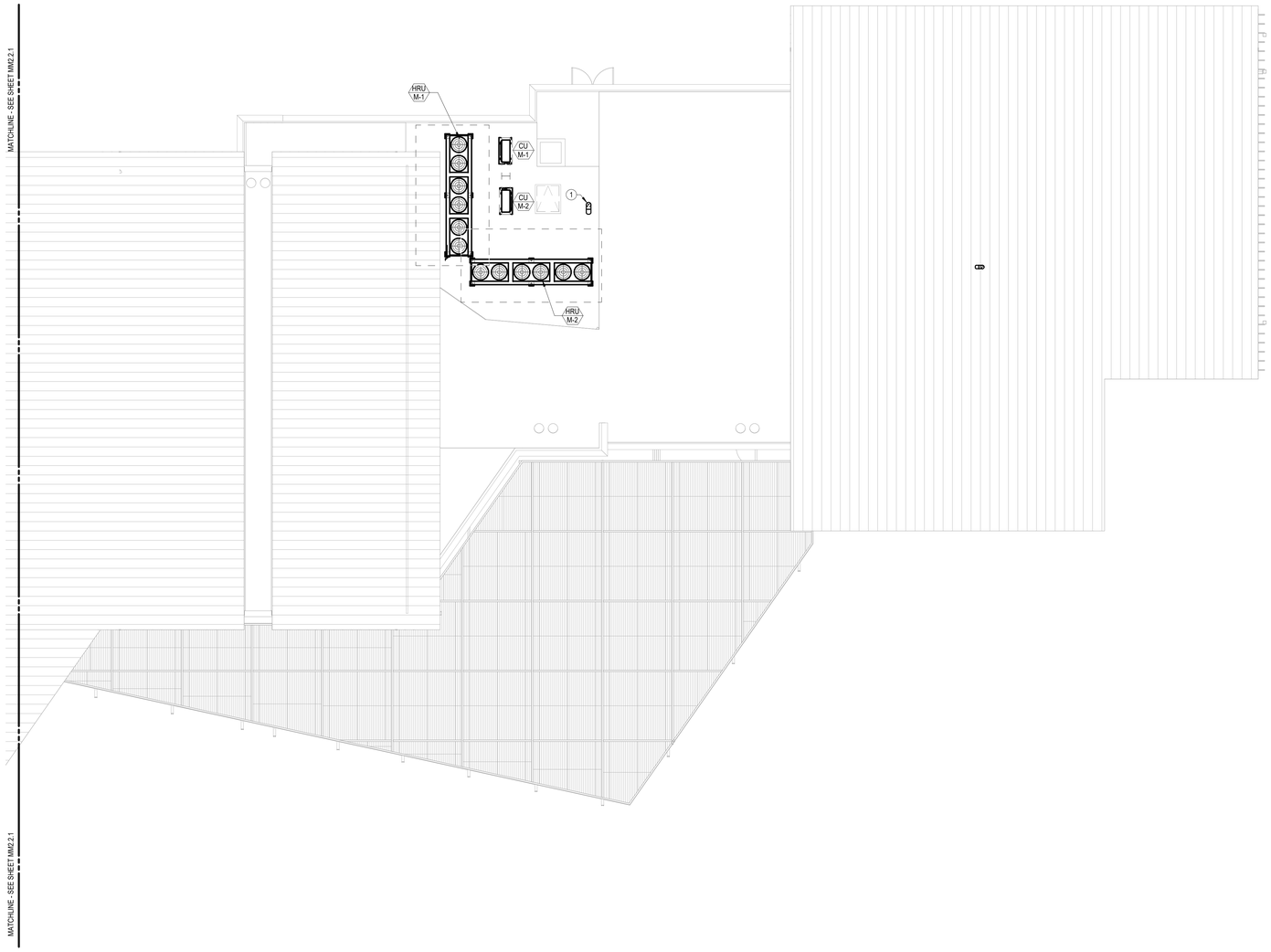
MECHANICAL ROOF PLAN - AREA A

NO.	DATE	ISSUE

PROJECT NO: 5003
DATE: Issue Date

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BIM 360://19009-00 Del Mar Heights ES/MECH-MAE-DMHS-BLDG M.rvt
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1 MECHANICAL ROOF PLAN - AREA B

1/8" = 1'-0"

0' 4' 8' 16'

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEY NOTES

1 8"ø DOWN TO EF M-5.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.

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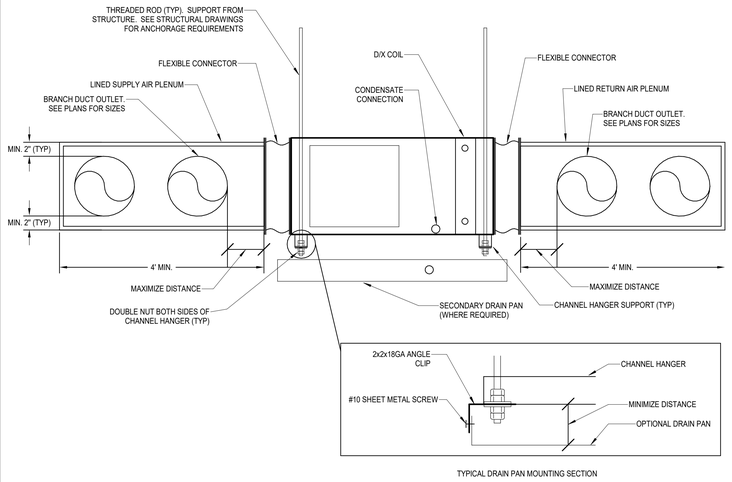
MECHANICAL ROOF PLAN - AREA B

NO.	DATE	ISSUE

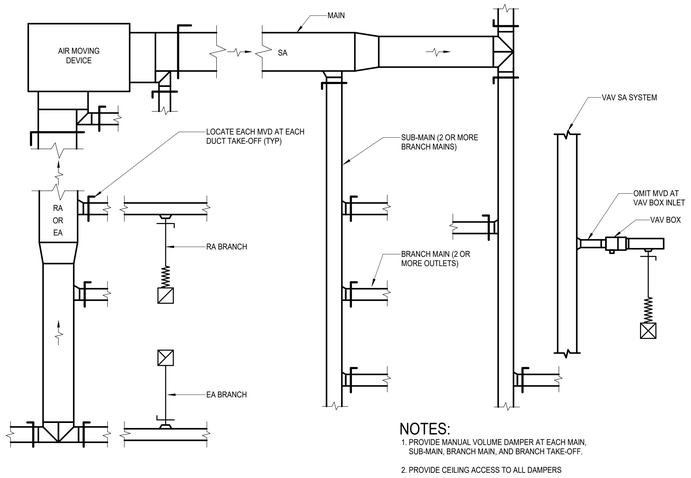
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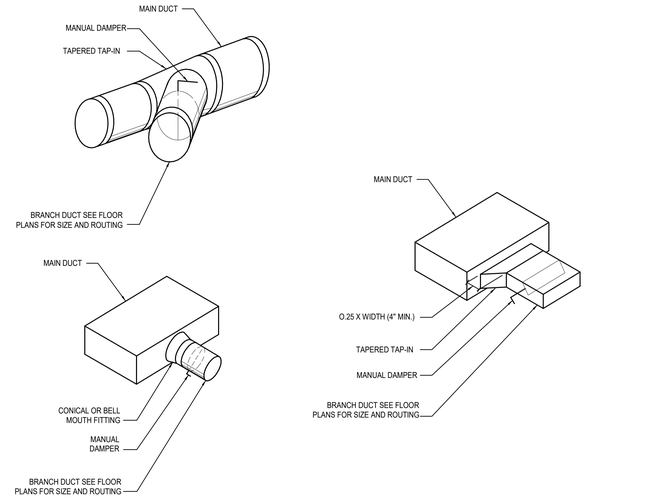


7 TYPICAL FC UNIT MOUNTING DETAIL
NO SCALE



NOTES:
1. PROVIDE MANUAL VOLUME DAMPER AT EACH MAIN, SUB-MAIN, BRANCH MAIN, AND BRANCH TAKE-OFF.
2. PROVIDE CEILING ACCESS TO ALL DAMPERS

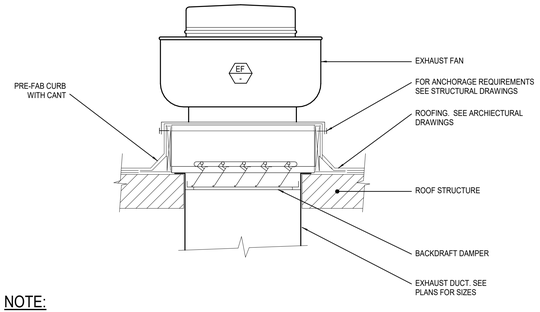
4 TYPICAL MANUAL VOLUME DAMPER LOCATION DIAGRAM
NO SCALE



1 BRANCH DUCT TAKE OFF DETAIL
NO SCALE

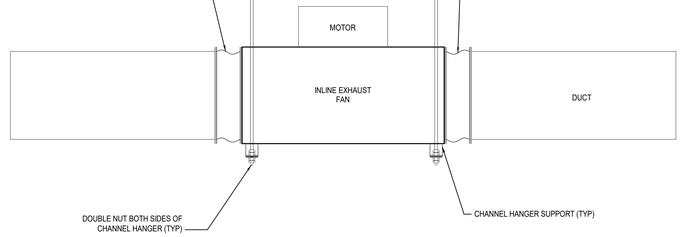
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DEL MAR HEIGHTS SCHOOL

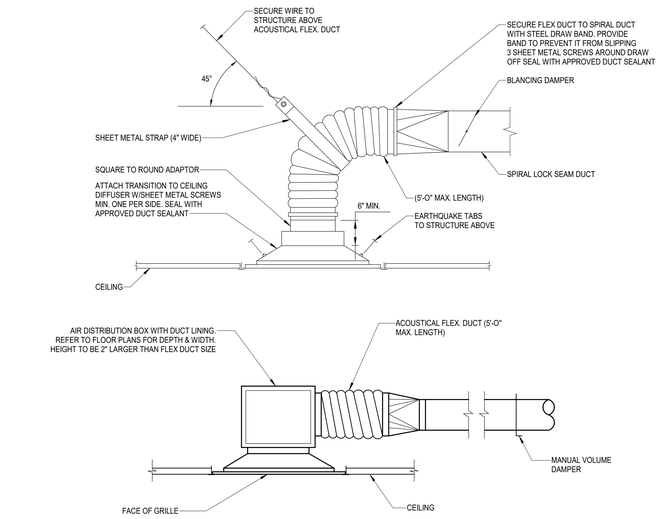


NOTE:
1. FAN & PRE-FAB CURB SHALL SIT LEVEL. PROVIDE LEVEL BASE IF ROOF IS PITCHED.

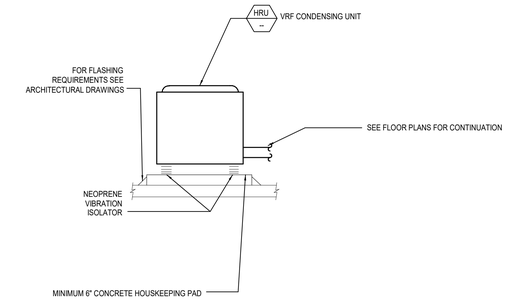
8 UPBLAST EXHAUST FAN DETAIL
NO SCALE



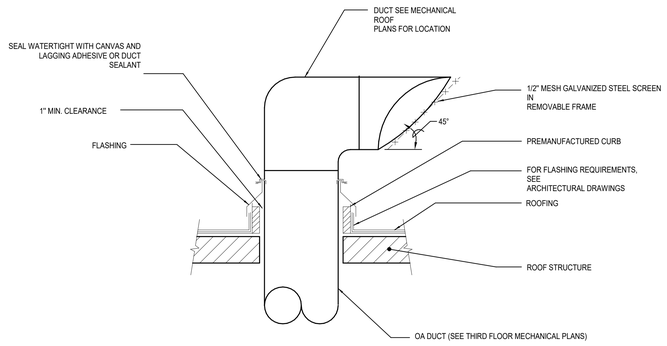
5 INLINE EXHAUST FAN MOUNTING DETAIL
NO SCALE



2 CEILING DIFFUSER CONNECTION DETAIL
NO SCALE



9 VRF CONDENSING UNIT MOUNTING DETAIL
NO SCALE



6 OA DUCT THROUGH ROOF DETAIL
NO SCALE

BRANCH DUCT SIZES SUPPLY AIR	
MAX. CFM	SIZE
0-95	6"Ø
95-210	8"Ø
210-370	10"Ø
370-600	12"Ø
600-900	14"Ø
900-1290	16"Ø
1290-1750	18"Ø
1750-2300	20"Ø

BRANCH DUCT SIZES RETURN / EXHAUST AIR	
MAX. CFM	SIZE
0-190	8"Ø
190-340	10"Ø
340-560	12"Ø
560-840	14"Ø
840-1190	16"Ø
1190-1610	18"Ø
1610-2150	20"Ø
2150-2750	22"Ø

3 BRANCH DUCT CONNECTION SIZING CHART
NO SCALE

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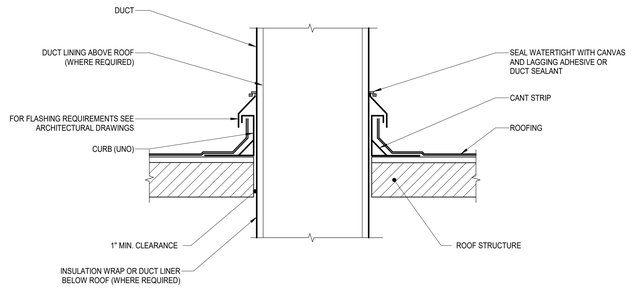
MECHANICAL DETAILS

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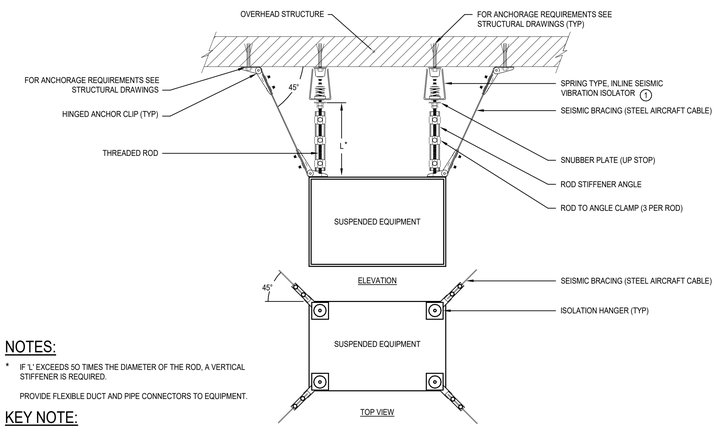
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1 DUCT THROUGH ROOF DETAIL
NO SCALE



NOTES:

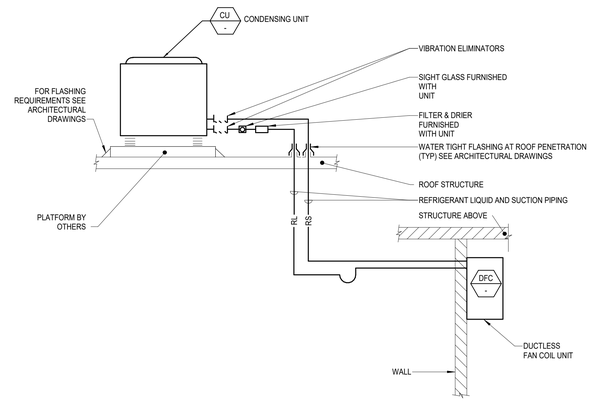
* IF 'L' EXCEEDS 50 TIMES THE DIAMETER OF THE ROD, A VERTICAL STIFFENER IS REQUIRED.

PROVIDE FLEXIBLE DUCT AND PIPE CONNECTORS TO EQUIPMENT.

KEY NOTE:

1. INSTALL UNDER STRICT INSTRUCTION OF VIBRATION ISOLATOR MFGR.

2 SUSPENDED EQUIP DETAIL
NO SCALE



3 DUCTLESS SPLIT SYSTEM DETAIL
NO SCALE

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DSA NOTES

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A 1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G.: HARD WIRED) TO BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER.
3. MOVABLE EQUIPMENT THAT IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS LESS THAN 5 POUNDS PER FOOT WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR THE STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR SHALL VERIFY THAT ALL THE COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED TO THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8 AND 2016 CBC SECTIONS 1616A 1.24, 166A 1.25 AND 1616A 1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. SMACNA OR OSHPD OPM), COPIES OF THE INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO START OF AND DURING THE HANGING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MP☐ MD☐ PP☐ E ☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PREAPPROVAL.

MP☐ MD☐ PP☒ OPTION 3: SHALL COMPLY WITH SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTNERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL _D_ AND CONNECTION LEVEL _1_ FOR THE PROJECT AND CONDITIONS.

PLUMBING LEGEND AND ABBREVIATIONS

SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION
	POC	POINT OF CONNECTION		ABV	ABOVE
	W	WASTE OR SEWER		A/C	ABOVE CEILING
	V	SANITARY VENT		A.F.F.	ABOVE FINISH FLOOR
	CW	COLD WATER		A.F.G.	ABOVE FINISH GRADE
	HW	HOT WATER		A/G	ABOVE GRADE
	HWR	HOT WATER RETURN		A.P.	ACCESS PANEL
G	G	LOW PRESSURE NATURAL GAS		B/F	BELOW FLOOR
MPG	MPG	MEDIUM PRESSURE NATURAL GAS		B/G	BELOW GRADE
SD	SD	STORM DRAIN		CFH	CUBIC FEET PER HOUR
OSD	OSD	OVERFLOW STORM DRAIN		DWGS.	DRAWINGS
	SOV	SHUT OFF VALVE		EA.	EACH
	BLV	BALANCING VALVE		EXIST.	EXISTING
	PRV	PRESSURE REDUCING VALVE		(E)	EXISTING
	FS	FLOOR SINK		FT.	FEET OR FOOT
	FD	FLOOR DRAIN		FLR.	FLOOR
	FCO	FLOOR CLEAN-OUT		G.P.F.	GALLONS PER FLUSH
	WCO	WALL CLEAN-OUT		G.P.H.	GALLONS PER HOUR
	GCO	GRADE CLEAN-OUT		G.P.M.	GALLONS PER MINUTE
	TWGCO	TWO-WAY GRADE CLEAN-OUT		I.E.	INVERT ELEVATION
	DN	DOWN OR DROP		MSA	MEDIUM PRESSURE GAS METER
	UP	RISE OR RISER		mm	MILLIMETER
	HB	HOSE BIBB		NTS	NOT TO SCALE
		VALVE ON RISE OR DROP		ORD	OVERFLOW ROOF DRAIN
	U	UNION		LB	POUNDS
	RV	TEMPERATURE & PRESSURE RELIEF VALVE		PSI	POUNDS PER SQUARE INCH
				RD	ROOF DRAIN
CD	CD	CONDENSATE DRAIN PIPING			SET ASSEMBLY
	FDC	FIRE DEPARTMENT CONNECTION		SF	SQUARE FEET
	CP	CIRCULATING PUMP		T.D.H.	TOTAL DEVELOPED HEAD
	CV	CHECK VALVE		V.T.R.	VENT THROUGH ROOF
	TP	TRAP PRIMER		W.C.	WATER COLUMN
	WHA	WATER HAMMER ARRESTOR			
	REG	GAS REGULATOR W/SHUT-OFF VALVE			

WATER CALCULATION

PRESSURE AVAILABLE

STATIC PRESSURE IN MAIN	=	+0	PSI
ESTIMATED PRESSURE LOSS THRU METER	=	-5	PSI
ESTIMATED PRESSURE LOSS THRU BACKFLOW	=	-15	PSI
MINIMUM PRESSURE REQUIRED AT LAST FIXTURE	=	-30	PSI
STATIC HEAD LOSS (20 FEET x .43)	=	-8.6	PSI
TOTAL	=	0	PSI
TOTAL DEVELOPED LENGTH (TDL)	=	0	FEET
TOTAL EQUIVALENT LENGTH (TDLx1.5)	=	0	FEET

(0X100) / 150 = PSI ALLOWABLE LOSS PER 100 FT

PIPE SIZING CHART BASED ON PSI/100FT LOSS.

CW PIPING SIZING CHART

3 psi

SIZE	GPM	FIXTURE UNITS		VELOCITY (FPS)
		FLUSH TANK	FLUSH VALVE	
1/2"	1.7	--	--	2.4
3/4"	4.5	4	--	3.0
1"	9	12	--	3.6
1 1/4"	17	24	--	4.3
1 1/2"	27	46	10	4.9
2"	54	146	57	5.7
2 1/2"	88	315	186	6
3"	130	533	430	6
4"	210	1018	1009	6

HW PIPING SIZING CHART

3 psi

SIZE	GPM	FIXTURE UNITS		VELOCITY (FPS)
		FLUSH TANK	FLUSH VALVE	
1/2"	1.7	--	--	2.4
3/4"	4.5	4	--	3.0
1"	9	12	--	3.6
1 1/4"	17	24	--	4.3
1 1/2"	27	46	--	4.9
2"	46	111	--	5
2 1/2"	71	225	--	5
3"	120	479	--	5
4"	185	840	--	5

GENERAL NOTES

1. THESE DRAWINGS ARE A GENERAL GRAPHIC PRESENTATION OF THE WORK. PIPING AND EQUIPMENT, AS SHOWN, ARE SCHEMATIC. FABRICATE AND INSTALL BASED ON ACTUAL FIELD MEASUREMENT. COORDINATE WITH OTHER TRADES. PROVIDE A COMPLETE SET OF SHOP DRAWINGS REFLECTING ACTUAL INSTALL, ACCESS REQUIREMENTS, AND DETAILS BASED UPON THE ACTUAL EQUIPMENT PROCURED. MAINTAIN AN UP TO DATE SET OF AS-BUILT DRAWINGS AT THE JOB SITE.
2. THESE DRAWINGS ARE TO BE CONSIDERED NOT FOR CONSTRUCTION UNTIL THEY ARE STAMPED, SIGNED, AND PERMITTED. UNTIL THEN THEY ARE SUBJECT TO CHANGE WITHOUT NOTICE.
3. COMPLY WITH CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA PLUMBING CODE (CPC), AND NATIONAL FIRE PROTECTION AGENCY (NFPA), AND GOVERNING CODES. THERE SHALL BE NO EXCEPTION. REPORT DEFICIENCIES WITHIN THIRTY (30) DAYS UPON AUTHORIZATION TO PROCEED.
4. PROVIDE ACCESS AND CLEARANCE FOR MAINTENANCE FOR MECHANICAL & PLUMBING EQUIPMENT AND COMPONENTS AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER AND APPLICABLE CODES.
5. HANDLE, STORE AND INSTALL EQUIPMENT PER MANUFACTURERS INSTRUCTIONS.
6. NO PLUMBING SHALL BE INSTALLED UNTIL ALL REQUIRED PLUMBING PLAN CHECK PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REQUIRED AGENCIES.
7. LAVATORY FAUCETS, SINK FAUCETS (NOT INCLUDING SERVICE SINK FAUCETS OR FAUCETS DESIGNATED AT INSTITUTIONAL) SHALL MEET THE FLOW REQUIREMENTS OUTLINED IN THE APPLIANCE EFFICIENCY STANDARDS.
8. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES AND DRAINS.
9. HOSE BIBBS SHALL BE PROTECTED BY AN APPROVED NON-REMOVABLE TYPE BACKFLOW PROTECTION DEVICE. HOSE BIBBS SHALL BE MOUNTED AT +18" ABOVE FLOOR UNLESS OTHERWISE NOTED.
10. PROVIDE ALL TAILPIECES, TRAPS, STOPS, SUPPLY PIPES TO LAVATORIES DESIGNED AS ACCESSIBLE, WITH PREFORMED INSULATION JACKET.
11. COORDINATE AND VERIFY SIZES, LOCATIONS, DEPTHS AND PRESSURIZED PIPING PRESSURES OF ALL BUILDING UTILITIES WITH CIVIL.
12. COORDINATE AND SCHEDULE TIMING FOR UTILITY SERVICE CONNECTION.
13. ALL LINES BELOW SLAB ON GRADE TO BE LOCATED AWAY FROM ALL LOAD BEARING FOOTINGS.
14. ALL LINES RUNNING BELOW GRADE BEAMS OR PENETRATING, SEE STRUCTURAL DRAWINGS FOR CONSTRUCTION.
15. ALL VENTS THRU ROOF SHALL BE MINIMUM OF 18 INCHES VERTICAL AND FIFTEEN FEET HORIZONTAL AWAY FROM ALL AIR CONDITIONING FRESH AIR INTAKES AND PROVIDED WITH VANDAL PROOF HOODS.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, ROOFS, FOOTINGS, FLOORS, INCLUDING ALL SAW CUTTING AND CORE DRILLING. COORDINATE ALL SAW CUTTING AND CORE DRILLING WITH STRUCTURAL DRAWINGS. ANY CUTTING AND DRILLING REQUIRED OF STRUCTURAL ELEMENTS THAT IS NOT SPECIFICALLY SHOWN ON THE PLANS SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION PRIOR TO CUTTING AND DRILLING. CONTRACTOR SHALL SUBMIT PROPOSED LOCATION AND SIZES OF SUCH CUTTING AND DRILLING FOR THE ARCHITECTS AND STRUCTURAL ENGINEERS APPROVAL.
17. COORDINATE ALL EQUIPMENT LOCATIONS, PIPE PENETRATIONS AND EQUIPMENT PAD LOCATIONS WITH STRUCTURAL DRAWINGS PRIOR TO WORK.
18. COORDINATE INSTALLATION OF ALL EQUIPMENT AND PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. ENSURE THAT ALL CONTROL DEVICES, SHUT-OFF VALVES, ETC. ARE ACCESSIBLE FOR MAINTENANCE. WHERE ACCESS PANELS IN FINISHED SPACES, OTHER THAN THAT SHOWN, CONTRACTOR SHALL PROVIDE AND COORDINATE EXACT LOCATION OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
19. INSTALL VALVES WITH UNIONS OR FLANGES AT EACH PIECE OF EQUIPMENT ARRANGED TO ALLOW SERVICE, MAINTENANCE, AND EQUIPMENT REMOVAL WITHOUT SYSTEM SHUT-DOWN.
20. ANY STRUCTURAL FIREPROOFING DAMAGED DURING INSTALLATION OF PLUMBING EQUIPMENT, PIPING, ETC. SHALL BE REPAIRED AT NO COST TO THE OWNER. REPAIRS SHALL BE AS DIRECTED BY THE ARCHITECT.
21. FAUCETS TO BE 1.8 GPM MAXIMUM.
22. WATER HEATER IS TO BE USED ON CALIFORNIA ENERGY COMMISSION (CEC) LIST.
23. PROVIDE EXPANSION TANK OR OTHER APPROVED METHOD OF RELIEVING PRESSURE (SECTION 608.3 CPC).
24. CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT.
25. COORDINATE WITH ELECTRICAL AND CONTROL CONTRACTORS FOR ALL POWER REQUIREMENTS PRIOR TO BID.
26. COORDINATE WITH ELECTRICAL AND CONTROL CONTRACTORS FOR ALL POWER REQUIREMENTS PRIOR TO ORDERING ANY EQUIPMENT.
27. UPON INSTALLATION OF ALL EQUIPMENT, DEVICES, VIBRATION ISOLATION, ETC., PROVIDE WRITTEN CONFIRMATION BY EQUIPMENT MANUFACTURER'S REPRESENTATIVES TO ENSURE COMPLIANCE WITH MANUFACTURER'S REQUIREMENTS.
28. PROVIDE DETAILS AND SEISMIC CALCULATIONS FOR ALL EQUIPMENT ON VIBRATION ISOLATION. ALL DETAILS SHALL BE STAMPED BY A STRUCTURAL ENGINEER FROM VIBRATION ISOLATIONS MANUFACTURER.
29. FOR EACH SUBMITTAL, THE CONTRACTOR SHALL PROVIDE A LETTER (ON COMPANY LETTERHEAD) AND SIGNED BY THE PROJECT MANAGER INDICATING THE SUBMITTAL HAS BEEN FULLY IN HOUSE REVIEWED TO ENSURE FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND COORDINATION WITH OTHER TRADES. ANY EXCEPTIONS TO THE CONTRACT DOCUMENTS SHALL BE CLEARLY INDICATED ON THIS LETTER. ANY DISCREPANCIES/EXCEPTIONS NOT IDENTIFIED IN WRITING SHALL BE CORRECTED AT THE SOLE EXPENSE OF THE CONTRACTOR AND AT NO EXPENSE TO THE OWNER AND ENGINEER.
30. THE CONTRACTOR SHALL SELECT ALL CIRCUIT SETTERS/BALANCING VALVES FOR ACTUAL FLOW THROUGH THE PIPE AND THE PROPER PRESSURE DROP TO ENSURE PROPER OPERATION AND NOT BASED ON PIPE SIZES.
31. HOT WATER INSULATION SHALL HAVE A MINIMUM WALL THICKNESS OF NOT LESS THAN THE DIAMETER OF THE PIPE FOR A PIPE UP TO 2 INCHES (50 mm) IN DIAMETER. INSULATION WALL THICKNESS SHALL BE NOT LESS THAN 2 INCHES (51 mm) FOR A PIPE OF 2 INCHES (50 mm) OR MORE IN DIAMETER PER CURRENT CPC, SECTION 609.11.2.
32. A CLEANOUT SHALL BE INSTALLED ABOVE THE FIXTURE CONNECTION FITTING, SERVING EACH URINAL, REGARDLESS OF THE LOCATION OF THE URINAL IN THE BUILDING PER CURRENT CPC, SECTION 707.4.

PLAN CHECK NOTES

1. ALL SINKS IN THE FIRST FLOOR OF A BUILDING SHALL BE PROVIDED WITH CLEANOUTS AT THEIR UPPER TERMINAL. ALL URINALS ON THE FIRST FLOOR TO BE PROVIDED WITH CLEANOUTS. CLEANOUT IN HORIZONTAL DRAINAGE PIPING EVERY 100 FEET AND/OR EVERY 135 DEGREE CHANGE OF DIRECTION.
2. DRAINAGE THAT IS UNDER PRESSURE MUST BE INDIRECTLY CONNECTED TO THE DRAINAGE SYSTEM.

PIPE MATERIALS

1. WATER ABOVE GRADE: COPPER TYPE "L" HARD DRAWN WITH WROUGHT COPPER SOLDER JOINT FITTINGS.
2. WATER BELOW GRADE: COPPER TYPE "K" WITH CAST SOLDER JOINT FITTINGS. ROUGH SOLDER-JOINT FITTINGS, OR FLARED JOINT FITTINGS.
3. SOIL/WASTE AND VENT ABOVE GRADE: HUBLESS CAST IRON PIPE AND FITTINGS.
4. SOIL/WASTE AND VENT BELOW GRADE: POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS PER ASTM D2665.
5. NATURAL GAS ABOVE GRADE: BLACK STEEL, SCHEDULE 40 WITH MALLEABLE IRON-THREADED FITTINGS.
6. NATURAL GAS BELOW GRADE: POLYETHYLENE (PE), SDR 11 PIPE WITH SOCKET FUSION FITTINGS.
7. STORM DRAIN ABOVE GRADE: HUBLESS CAST IRON PIPE AND FITTINGS.
8. STORM DRAIN BELOW GRADE: POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS PER ASTM D2665.

SLOPE OF PIPING SYSTEMS

1. SANITARY SEWER, WASTE & VENT PIPING: 2% UNLESS NOTED OTHERWISE.
2. STORM DRAIN PIPING: 1% UNLESS NOTED OTHERWISE.
3. CONDENSATE DRAIN PIPING: 1%.

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PLUMBING LEGEND AND GENERAL NOTES

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PLUMBING EQUIPMENT SCHEDULE

SYMBOL	EQUIPMENT	MANUFACTURER/MODEL	ELECTRICAL DATA				CAPACITY		STORAGE VOLUME (GALLON)	WEIGHT (LBS)	LOCATION	DESCRIPTION
			POWER (HP)	VOLTS	PHASE	HERTZ (Hz)	INPUT (MBH)	OUTPUT (MBH)				
WH 1	WATER HEATER	WATER HEATER SHALL BE --	--	120	1	60	--	--	100	--	--	--
MX 1	MIXING VALVE	MIXING VALVE SHALL BE --	--	--	--	--	--	--	--	--	--	--
ET 1	EXPANSION TANK	EXPANISION TANK SHALL BE --	--	--	--	--	--	--	4.4	--	--	--
CP 1	RECIRCULATING PUMP	RECIRCULATING PUMP SHALL BE --	1/12	120	1	60	--	--	--	--	--	HOT WATER RETURN
EWH 2	ELECTRIC WATER HEATER	ELECTRIC WATER HEATER SHALL BE AO SMITH DEL-15	2.5kW	208	1	60	--	--	15	183	--	14 GPH @ 72° RISE, SEE DETAIL 4/5.1.1.
MX 2	MIXING VALVE	MIXING VALVE SHALL BE --	--	--	--	--	--	--	--	--	--	--
ET 2	EXPANSION TANK	EXPANSION TANK SHALL BE --	--	--	--	--	--	--	4.4	--	--	--
IWH 1	INSTA HOT WATER HEATER	INSTA HOT WATER HEATER SHALL BE EEMAX SP3208	3kW	208	1	60	--	--	--	--	--	POINT OF USE, 3 KW, 15A
CDP 1	CONDENSATE PUMP	CONDENSATE PUMP SHALL BE LITTLE GIANT EC-1	--	208	1	60	--	--	--	--	--	--

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	MANUFACTURER/MODEL	ROUGH-IN					VALVE/FAUCET TYPE					DESCRIPTION
			HW	CW	W	TRAP	V	MANUAL	PUSH BUTTON	BATTERY	ELECTRIC 110V	FLOW	
WC 1	WATER CLOSET	WATER CLOSET SHALL BE -- FLUSH VALVE SHALL BE --	--	1"	4"	INT.	2"	--	--	--	--	1.28 GPF	WALL MOUNTED, WHITE VITREOUS CHINA
WC 2	WATER CLOSET - ACCESSIBLE	WATER CLOSET SHALL BE -- FLUSH VALVE SHALL BE --	--	1"	4"	INT.	2"	--	--	--	--	1.28 GPF	WALL MOUNTED, WHITE VITREOUS CHINA, ACCESSIBLE HEIGHT
U 1	URINAL	URINAL SHALL BE -- FLUSH VALVE SHALL BE --	--	1"	2"	INT.	1 1/2"	--	--	--	--	0.125 GPF	WALL MOUNTED, WHITE VITREOUS CHINA
L 1	LAVATORY	LAVATORY SHALL BE -- FAUCET SHALL BE --	--	1/2"	2"	2"	1 1/2"	--	--	--	--	0.5 GPM	COUNTER MOUNTED, WHITE VITREOUS CHINA
L 2	LAVATORY - ACCESSIBLE	LAVATORY SHALL BE -- FAUCET SHALL BE --	--	1/2"	2"	2"	1 1/2"	--	--	--	--	0.5 GPM	COUNTER MOUNTED, WHITE VITREOUS CHINA, ACCESSIBLE
L 3	LAVATORY - ACCESSIBLE	LAVATORY SHALL BE -- FAUCET SHALL BE --	--	1/2"	2"	2"	1 1/2"	--	--	--	--	0.5 GPM	COUNTER MOUNTED, WHITE VITREOUS CHINA, ACCESSIBLE
S 1	SINK - ACCESSIBLE	SINK SHALL BE -- FAUCET SHALL BE --	--	1/2"	2"	2"	1 1/2"	--	--	--	--	1.8 GPM	COUNTER MOUNTED, STAINLESS STEEL
FD 1	FLOOR DRAIN	FLOOR DRAIN SHALL BE --	--	--	2"	2"	1 1/2"	--	--	--	--	--	BRONZE GRATE, PROVIDE WITH TRAP PRIMER
TP 1	TRAP PRIMER	TRAP PRIMER SHALL BE --	--	1/2"	--	--	--	--	--	--	--	--	PROVIDE ACCESS PANEL, SEE DETAIL 2/AP5.1.0
WHA 1	WATER HAMMER ARRESTOR	WATER HAMMER ARRESTOR SHALL BE --	--	3/4"	--	--	--	--	--	--	--	--	PROVIDE ACCESS PANEL, SEE DETAIL 1/AP5.1.0
HB 1	HOSE BIBB	HOSE BIBB SHALL BE --	--	3/4"	--	--	--	--	--	--	--	--	SEE DETAIL 4/AP5.1.0
HB 2	HOSE BIBB	HOSE BIBB SHALL BE --	--	3/4"	--	--	--	--	--	--	--	--	SEE DETAIL 5/AP5.1.0
HD 1	HUB DRAIN	HUB DRAIN SHALL BE --	--	--	4"	4"	2"	--	--	--	--	--	6" HUB DRAIN.SEE DETAIL 2/AP5.1.1
DF 1	DRINKING FOUNTAIN	DRINKING FOUNTAIN SHALL BE --	--	3/4"	--	--	--	--	--	--	--	--	--
RD 1	ROOF DRAIN	ROOF DRAIN SHALL BE --	--	--	SEE PLANS	--	--	--	--	--	--	--	--
ORD 1	OVERFLOW ROOF DRAIN	OVERFLOW ROOF DRAIN SHALL BE --	--	--	SEE PLANS	--	--	--	--	--	--	--	--
MS 1	MOP SINK	MOP SINK SHALL BE --	3/4"	3/4"	3"	3"	2"	--	--	--	--	--	--
US 1	UTILITY SINK	UTILITY SINK VALVE SHALL BE --	--	--	--	--	--	--	--	--	--	--	--
PR 1	GAS PRESSURE REGULATOR	GAS PRESSURE REGULATOR SHALL BE --	--	--	--	--	--	--	--	--	--	--	--
PRV 1	PRESSURE REDUCING VALVE	PRESSURE REDUCING VALVE SHALL BE --	--	--	--	--	--	--	--	--	--	--	--

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

MA ENGINEERS
5160 Carroll Canyon Rd. Suite 200
San Diego, California 92121
Consulting Mechanical Engineers
T 858.200.9200 F 858.200.0037
www.ma-engr.com

REGISTERED PROFESSIONAL ENGINEER
DANIEL J. GRAMMER
M34498
Exp. 6/30/20
OF CALIFORNIA

IDENTIFICATION NUMBER
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL # 04-XXXXXX
AC _____ F/LS _____ SS _____
6040 DATE:

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PLUMBING SCHEDULES

NO. DATE ISSUE

PROJECT NO: 000000
DATE: 00/00/0000

DRAWING
P0.2.1

2/13/2020 3:41:06 PM BIM 360://19009-00 Del Mar Heights ES/PLMG-MAE-DMHS-BLDG A.rvt



1 PLUMBING SITE PLAN
1" = 30'-0"

BIM 360://19009-00 Del Mar Heights ES/PLMG-MAE-DMHS-BLDG A.rvt

2/13/2020 3:41:07 PM

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEY NOTES

#	
1	BLDG A-2" CW POC TO CIVIL. 384.5 IE. SEE CIVIL DRAWINGS 1/C5.2 FOR CONTINUATION.
2	BLDG A-1"MPG POC TO SITE MAIN. 385' IE.
3	BLDG A-4" W POC TO CIVIL. 381.75' IE. SEE CIVIL DRAWINGS 1/C5.1 FOR CONTINUATION.
4	BLDG C-3" CW POC TO CIVIL. 380.34' IE. SEE CIVIL DRAWINGS 1/C5.4 FOR CONTINUATION.
5	BLDG C-2"MPG POC TO SITE MAIN. 384' IE.
6	BLDG C-4" W POC TO CIVIL. 381' IE. SEE CIVIL DRAWINGS 1/C5.4 FOR CONTINUATION.
7	BLDG C-4" W POC TO CIVIL. 380.75' IE. SEE CIVIL DRAWINGS 1/C5.6 FOR CONTINUATION.
8	BLDG D-2-1/2" CW POC TO CIVIL. 379' IE. SEE CIVIL DRAWINGS 1/C5.6 FOR CONTINUATION.
9	BLDG D-2"MPG POC TO SITE MAIN. 379' IE.
10	BLDG D-4" W POC TO CIVIL. 377.58' IE. SEE CIVIL DRAWINGS 1/C5.6 FOR CONTINUATION.
11	BLDG A-3" SD POC TO CIVIL. (240 SF) @ 383.10' IE. SEE CIVIL DRAWINGS 1/C5.2 FOR CONTINUATION.
12	BLDG A-6" SD POC TO CIVIL. (2326 SF) @ 382.06' IE. SEE CIVIL DRAWINGS 1/C5.2 FOR CONTINUATION.
13	4" OSD DAYLIGHT @+6" AFG.
14	6" OSD DAYLIGHT @+6" AFG.
15	BLDG C-6" SD POC TO CIVIL. (3481 SF) @ 380.42' IE. SEE CIVIL DRAWINGS 1/C5.4 FOR CONTINUATION.
16	BLDG C-4" SD POC TO CIVIL. (1636 SF) @ 381.67' IE. SEE CIVIL DRAWINGS 1/C5.4 FOR CONTINUATION.
17	BLDG C-6" SD POC TO CIVIL. (2336 SF) @ 381.92' IE. SEE CIVIL DRAWINGS 1/C5.6 FOR CONTINUATION.
18	BLDG C-6" SD POC TO CIVIL. (2254 SF) @ 381.92' IE. SEE CIVIL DRAWINGS 1/C5.6 FOR CONTINUATION.
19	BLDG C-6" SD POC TO CIVIL. (2572 SF) @ 379.42' IE. SEE CIVIL DRAWINGS 1/C5.6 FOR CONTINUATION.
20	BLDG C-4" SD POC TO CIVIL. (1168 SF) @ 381.92' IE. SEE CIVIL DRAWINGS 1/C5.6 FOR CONTINUATION.
21	BLDG C-4" SD POC TO CIVIL. (1546 SF) @ 380.16' IE. SEE CIVIL DRAWINGS 1/C5.6 FOR CONTINUATION.
22	BLDG A-6" SD POC TO CIVIL. (2326 SF) @ 382.33' IE. SEE CIVIL DRAWINGS 1/C5.1 FOR CONTINUATION.
23	BLDG A-4" W POC TO CIVIL. 382.57' IE. SEE CIVIL DRAWINGS 1/C5.2 FOR CONTINUATION.
24	BLDG M-2" CW POC TO CIVIL. 382.25' IE. SEE CIVIL DRAWINGS 1/C5.1 FOR CONTINUATION.
25	BLDG M-4" W POC TO CIVIL. 381.92' IE. SEE CIVIL DRAWINGS 1/C5.3 FOR CONTINUATION.
26	BLDG M-2" W POC TO CIVIL. 381.83' IE. SEE CIVIL DRAWINGS 1/C5.3 FOR CONTINUATION.
27	BLDG M-3/4" CW POC TO CIVIL. 382.25' IE. SEE CIVIL DRAWINGS 1/C5.3 FOR CONTINUATION.
28	BLDG M-2" W POC TO CIVIL. 382.08' IE. SEE CIVIL DRAWINGS 1/C5.3 FOR CONTINUATION.
29	BLDG M-4" W POC TO CIVIL. 381.83' IE. SEE CIVIL DRAWINGS 1/C5.6 FOR CONTINUATION.
30	BLDG M-4" W POC TO CIVIL. 381.50' IE. SEE CIVIL DRAWINGS 1/C5.1 FOR CONTINUATION.
31	BLDG M-3" CW POC TO CIVIL. 382.25' IE. SEE CIVIL DRAWINGS 1/C5.1 FOR CONTINUATION.
32	BLDG M-2"MPG POC TO SITE MAIN. 383' IE.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.
B. THESE DRAWINGS ARE TO BE CONSIDERED NOT FOR CONSTRUCTION UNTIL THEY ARE STAMPED, SIGNED, AND PERMITTED. UNTIL THEN THEY ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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IDENTIFICATION NO.
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OFFICE OF REGULATION SERVICES
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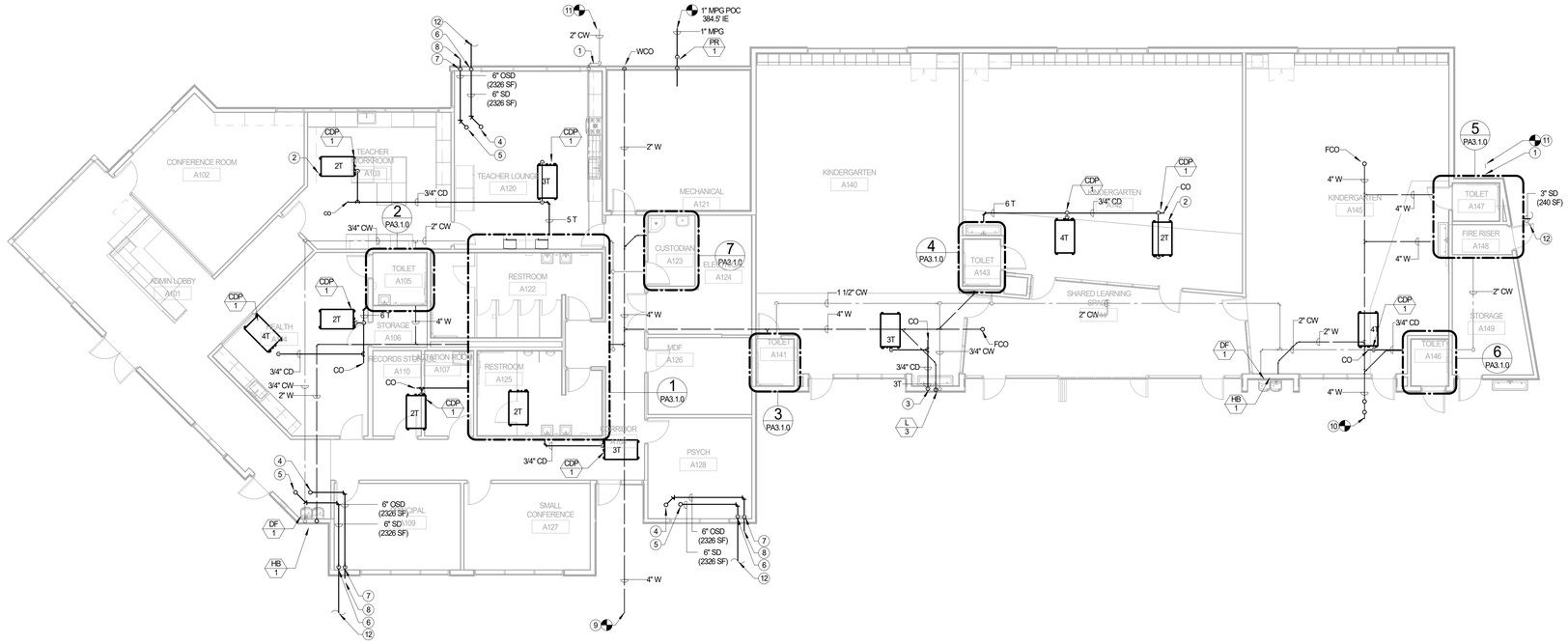
FOR PLAN REVIEW ONLY

PLUMBING SITE PLAN

NO.	DATE	ISSUE

PROJECT NO: 000000
DATE: 00/00/0000

DRAWING
P1.0.1



1 PLUMBING FLOOR PLAN - BLDG A
1/8" = 1'-0"

0' 4' 8' 16'

BIM 360://19009-00 Del Mar Heights ES/PLMG-MAE-DMHS-BLDG A.rvt

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEY NOTES

#	
1	WATER PRESSURE REDUCING VALVE. SEE SHEET 6/AP5.10 FOR DETAIL.
2	MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE MECHANICAL DRAWINGS (TYP.)
3	3/4" CONDENSATE DRAIN DOWN IN WALL. EXTEND TO SINK'S TRAP WYE BRANCH TAILPIECE. SEE DETAIL 9/A5.10..
4	6" OSD UP.
5	6" SD UP.
6	6" SD DOWN.
7	6" OSD DOWN.
8	6" OSD DAYLIGHT @+6" AFG.
9	BLDG A-4" W POC TO CIVIL. 381.75' IE. SEE CIVIL DRAWINGS 1/C5.1 FOR CONTINUATION.
10	BLDG A-4" W POC TO CIVIL. 382.57' IE. SEE CIVIL DRAWINGS 1/C5.2 FOR CONTINUATION.
11	BLDG A-2" CW POC TO CIVIL. 384.5 IE. SEE CIVIL DRAWINGS 1/C5.2 FOR CONTINUATION.
12	SEE SHEET 1/P1.0.1 FOR CONTINUATION.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.
B. REFER TO SHEET AP1.0.1 FOR PLUMBING SITE PLAN.
C. REFER TO ARCHITECTURAL SHEETS FOR EXACT LOCATIONS OF PLUMBING FIXTURES AND EQUIPMENT.
D. THESE DRAWINGS ARE TO BE CONSIDERED NOT FOR CONSTRUCTION UNTIL THEY ARE STAMPED, SIGNED, AND PERMITTED. UNTIL THEN THEY ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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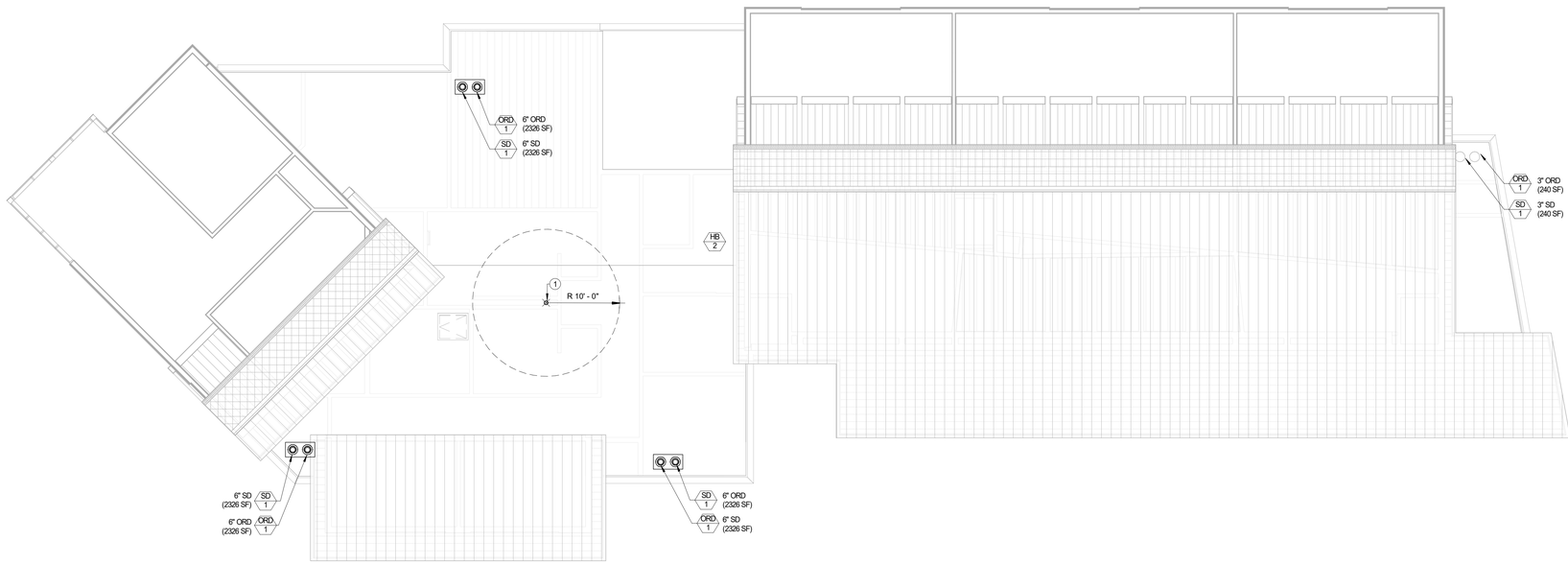
BLDG A

PLUMBING FLOOR PLAN - BLDG A

NO. DATE ISSUE

PROJECT NO: 000000
DATE: 00/00/0000

DRAWING
PA2.1.0



1 PLUMBING ROOF PLAN
1/8" = 1'-0"

0' 4' 8' 16'

BIM 360://19009-00 Del Mar Heights ES\PLMG-MAE-DMHS-BLDG A.rvt

2/13/2020 3:41:08 PM

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEY NOTES

1 2" VTR.

GENERAL NOTES

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C. THESE DRAWINGS ARE TO BE CONSIDERED NOT FOR CONSTRUCTION UNTIL THEY ARE STAMPED, SIGNED, AND PERMITTED. UNTIL THEN THEY ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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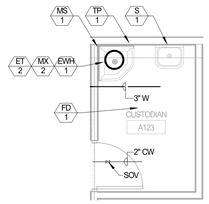
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PLUMBING ROOF PLAN

NO. DATE ISSUE

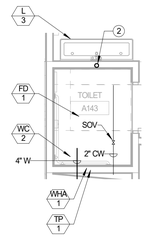
PROJECT NO: 000000
DATE: 00/00/0000

DRAWING
PA2.2.0



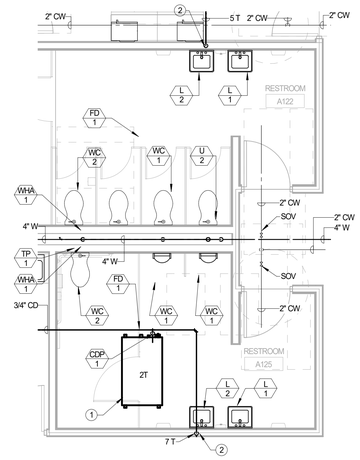
7 PA2.1.0 PLUMBING FLOOR PLAN - BLDG A - CUSTODIAN 231

1/4" = 1'-0"



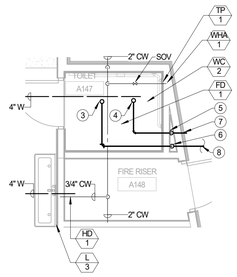
4 PA2.1.0 PLUMBING FLOOR PLAN - BLDG A - TOILET 106

1/4" = 1'-0"



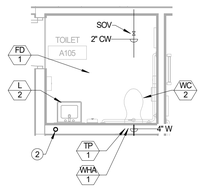
1 PA2.1.0 PLUMBING FLOOR PLAN - BLDG A - RESTROOM 118/ RESTROOM 119

1/4" = 1'-0"



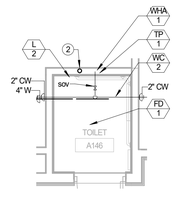
5 PA2.1.0 PLUMBING FLOOR PLAN - BLDG A - TOILET 107/FIRE RISER 234

1/4" = 1'-0"



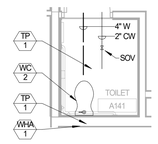
2 PA2.1.0 PLUMBING FLOOR PLAN - BLDG A - TOILET 116

1/4" = 1'-0"



6 PA2.1.0 PLUMBING FLOOR PLAN - BLDG A - TOILET 109

1/4" = 1'-0"



3 PA2.1.0 PLUMBING FLOOR PLAN - BLDG A - TOILET 105

1/4" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEY NOTES

#	
1	MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE MECHANICAL DRAWINGS (TYP.)
2	3/4" CONDENSATE DRAIN DOWN IN WALL. EXTEND TO LAVATORY'S TRAP WYE BRANCH TAILPIECE. SEE DETAIL 9/A5.10.
3	4" SD UP.
4	6" OSD UP.
5	4" OSD DOWN.
6	4" SD DOWN.
7	4" OSD DAYLIGHT @+6" AFG.
8	SEE SHEET 1/P1.0.1 FOR CONTINUATION.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.
B. REFER TO ARCHITECTURAL SHEETS FOR EXACT LOCATIONS OF PLUMBING FIXTURES AND EQUIPMENT.
C. THESE DRAWINGS ARE TO BE CONSIDERED NOT FOR CONSTRUCTION UNTIL THEY ARE STAMPED, SIGNED, AND PERMITTED. UNTIL THEN THEY ARE SUBJECT TO CHANGE WITHOUT NOTICE.
D. PROVIDE ACCESS PANELS FOR TRAP PRIMERS,WATER HAMMER ARRESTORS AND SHUT-OFF VALVES.

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REGISTERED PROFESSIONAL ENGINEER DANIEL J. GRAMMER M34498 Exp. 6/30/21 MECHANICAL STATE OF CALIFORNIA

IDENTIFICATION NO.
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL.# 04-XXXXXX
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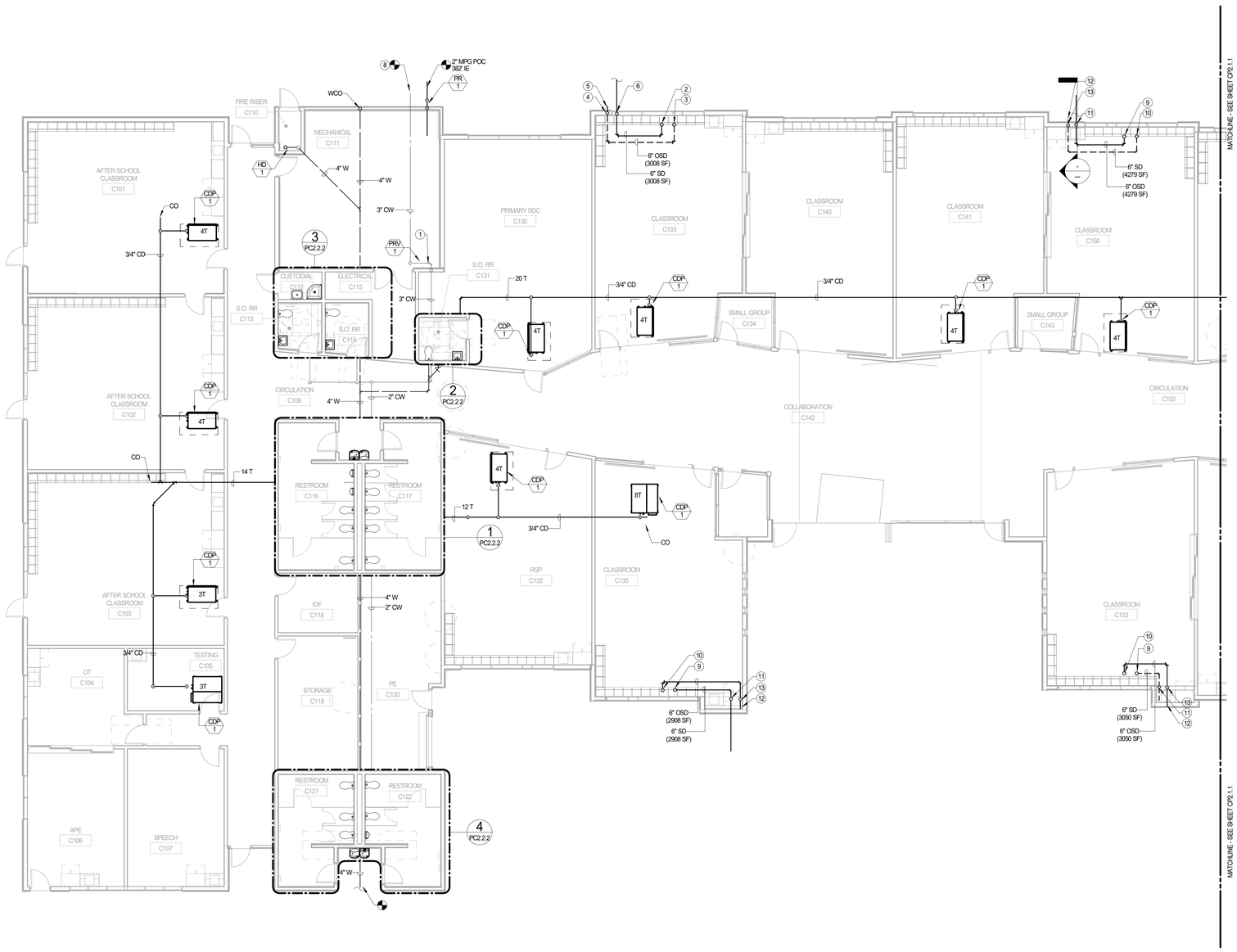
PLUMBING ENLARGED PLAN

NO.	DATE	ISSUE

PROJECT NO: 000000
DATE: 00/00/0000

DRAWING
PA3.1.0

2/13/2020 3:41:08 PM BIM 360://19009-00 Del Mar Heights ES/PLMG-MAE-DMHS-BLDG A.rvt



1 PLUMBING FLOOR PLAN - BLDG C - WEST
1/8" = 1'-0"

0' 4' 8' 16'

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2/13/2020 3:33:27 PM

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEY NOTES

#	
1	WATER PRESSURE REDUCING VALVE. SEE SHEET 6/AP5.10 FOR DETAIL.
2	4" SD UP.
3	4" OSD UP.
4	4" OSD DOWN.
5	4" OSD DAYLIGHT @+6" AFG.
6	4" SD DOWN.
7	BLDG C-4" W POC TO CIVIL. 381' IE. SEE CIVIL DRAWINGS 1/C5.4 FOR CONTINUATION.
8	BLDG C-3" CW POC TO CIVIL. 380.34' IE. SEE CIVIL DRAWINGS 1/C5.4 FOR CONTINUATION.
9	6" SD UP.
10	6" OSD UP.
11	6" SD DOWN.
12	6" OSD DAYLIGHT @+6" AFG.
13	6" OSD DOWN.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.
B. REFER TO SHEET AP1.0.1 FOR PLUMBING SITE PLAN.
C. REFER TO ARCHITECTURAL SHEETS FOR EXACT LOCATIONS OF PLUMBING FIXTURES AND EQUIPMENT.
D. THESE DRAWINGS ARE TO BE CONSIDERED NOT FOR CONSTRUCTION UNTIL THEY ARE STAMPED, SIGNED, AND PERMITTED. UNTIL THEN THEY ARE SUBJECT TO CHANGE WITHOUT NOTICE.
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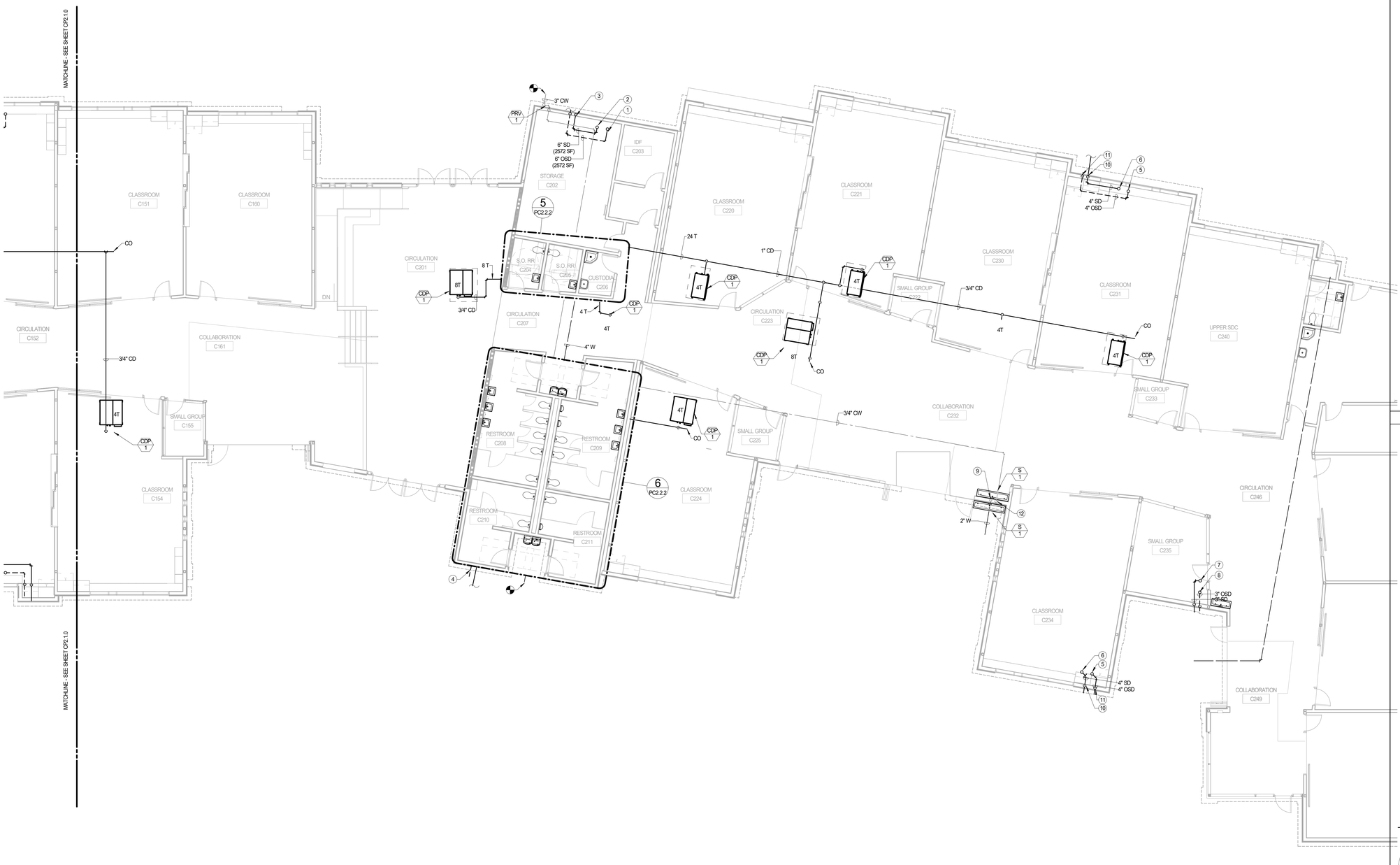
BLDG C

PLUMBING FIRST FLOOR PLAN - BLDG C - WEST

NO.	DATE	ISSUE

PROJECT NO: 5003
DATE: Issue Date

DRAWING
PC2.1.0



1 PLUMBING FLOOR PLAN - BLDG C - EAST

1/8" = 1'-0"

0' 4' 8' 16'

KEY NOTES

#	
1	6" OSD UP.
2	6" SD UP.
3	6" SD DOWN.
4	6" OSD DAYLIGHT @+6" AFG.
5	4" OSD UP.
6	4" SD UP.
7	3" SD UP.
8	3" OSD UP.
9	2" VTR.
10	4" SD DOWN.
11	4" OSD DOWN.
12	3/4" CW DOWN.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.
B. REFER TO SHEET AP1.0.1 FOR PLUMBING SITE PLAN.
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APPL #
AC _____ F/LS _____ SS _____
DATE:

BLDG C

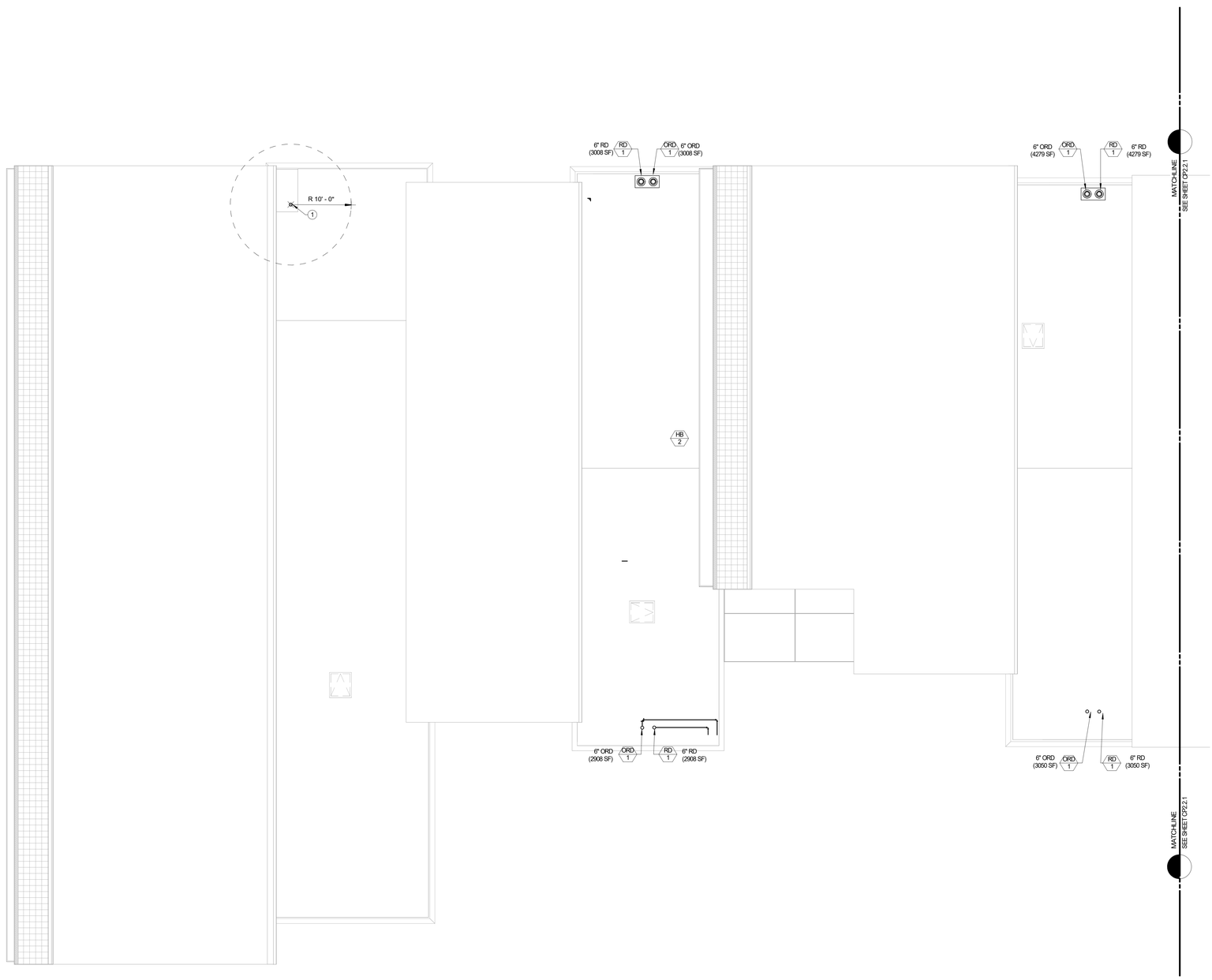
PLUMBING FIRST FLOOR PLAN - BLDG C - EAST

NO. DATE ISSUE

PROJECT NO: 5003
DATE: Issue Date

DRAWING
PC2.1.1

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2/13/2020 3:33:28 PM



1 PLUMBING ROOF PLAN - WEST
1/8" = 1'-0"

0' 4' 8' 16'

BIM 360://19009-00 Del Mar Heights ES/PLMG-MAE-DMHS-BLDG C.rvt

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DEL MAR UNION SCHOOL DISTRICT
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KEY NOTES

#	
1	2" VTR.

GENERAL NOTES

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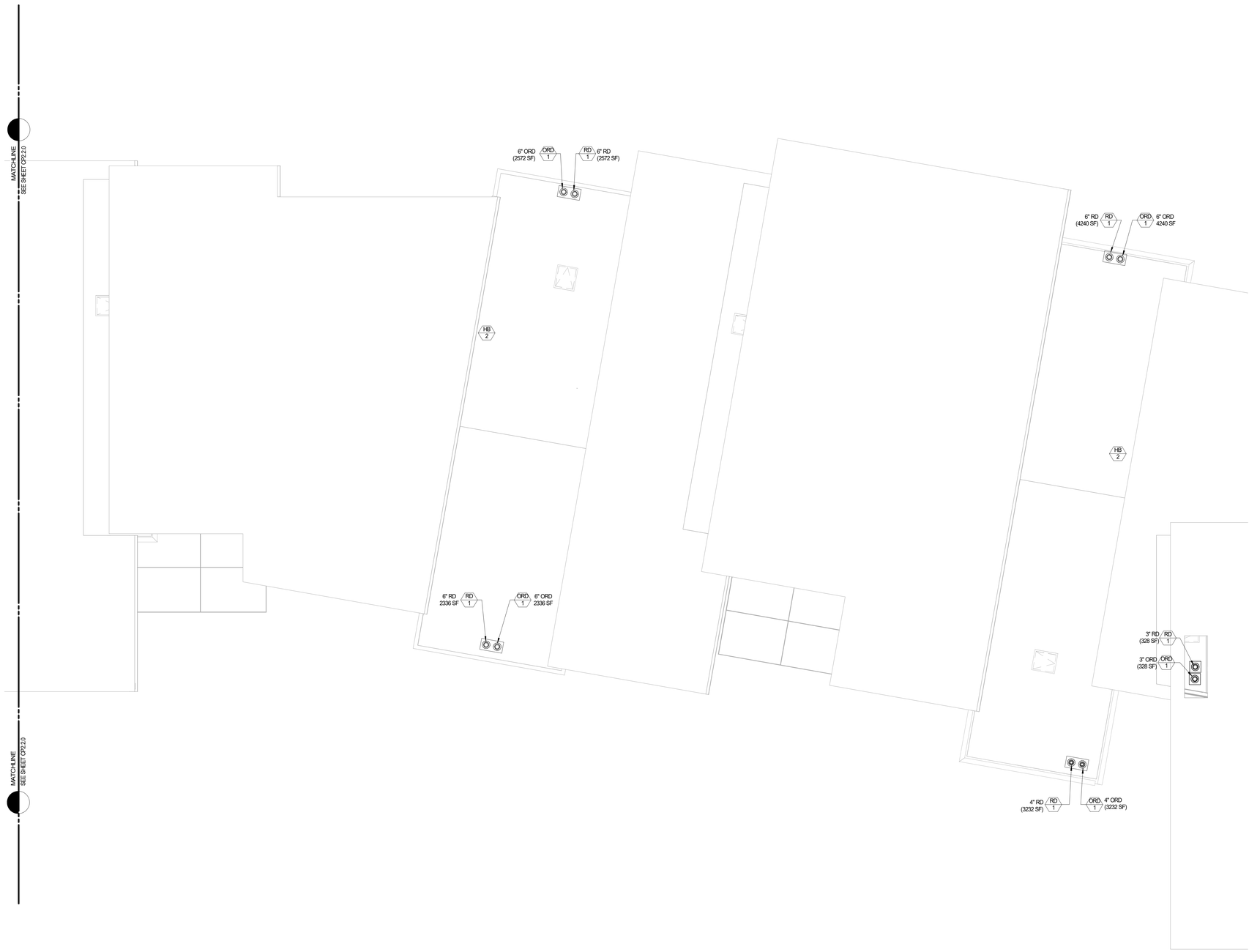
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APPL #
AC _____ F/LS _____ SS _____
DATE:

PLUMBING ROOF PLAN - WEST

NO.	DATE	ISSUE

PROJECT NO: 5003
DATE: Issue Date

DRAWING
PC2.2.0



1 PLUMBING ROOF PLAN - EAST
1/8" = 1'-0"

0' 4' 8' 16'

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEY NOTES

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.
B. REFER TO SHEET AP1.0.1 FOR PLUMBING SITE PLAN.
C. REFER TO ARCHITECTURAL SHEETS FOR EXACT LOCATIONS OF PLUMBING FIXTURES AND EQUIPMENT.
D. THESE DRAWINGS ARE TO BE CONSIDERED NOT FOR CONSTRUCTION UNTIL THEY ARE STAMPED, SIGNED, AND PERMITTED. UNTIL THEN THEY ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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REGISTERED PROFESSIONAL ENGINEER
DANIEL J. GRAMMER
M34498
Exp. 6/30/
MECHANICAL
STATE OF CALIFORNIA

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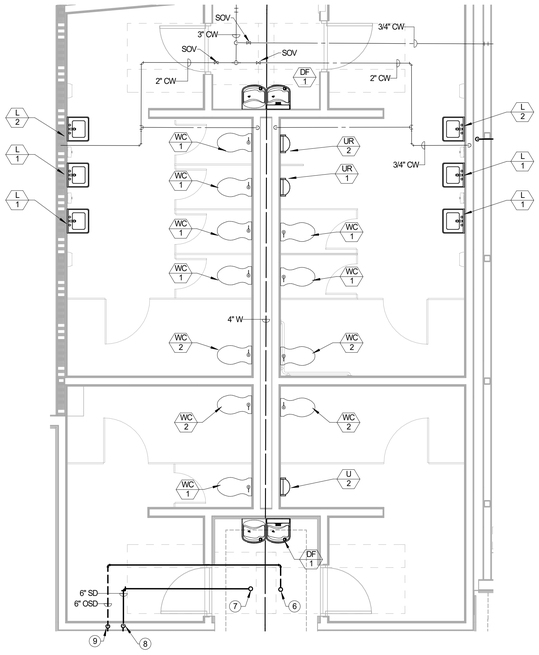
PLUMBING ROOF PLAN - EAST

NO. DATE ISSUE

PROJECT NO: 5003
DATE: Issue Date

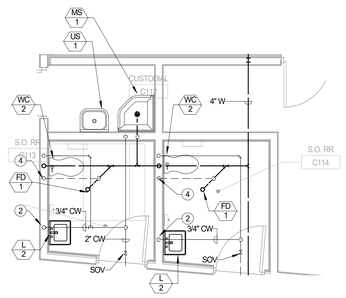
DRAWING
PC2.2.1

BIM 360://19009-00 Del Mar Heights ES\PLMG-MAE-DMHS-BLDG C.rvt
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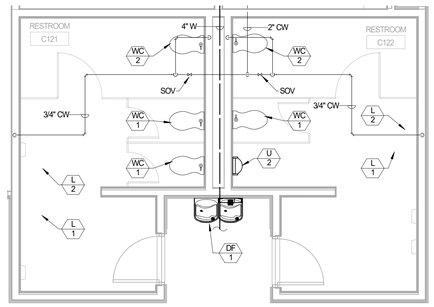
6 PC2.1.1 PLUMBING FLOOR PLAN - BLDG C - EAST - RESTROOM C208,C209,C210,C211

1/4" = 1'-0"



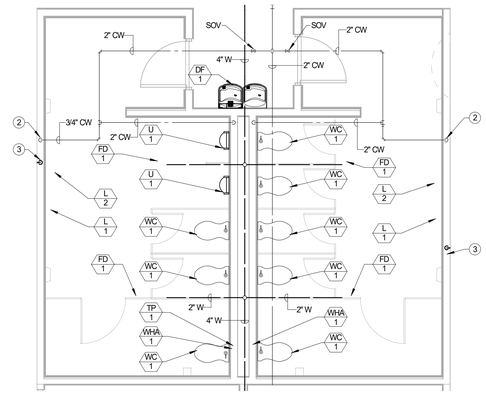
3 PC2.1.0 PLUMBING FLOOR PLAN - BLDG C - WEST - Callout 1

1/4" = 1'-0"



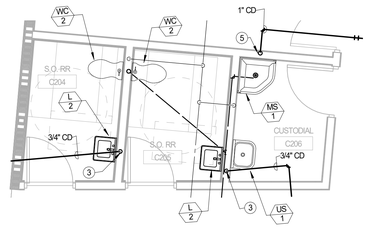
4 PC2.1.0 ENLARGED PLUMBING FLOOR PLAN - BLDG C - WEST - RESTOOM C121,C122

1/4" = 1'-0"



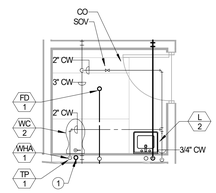
1 PC2.1.0 PLUMBING FLOOR PLAN - BLDG C - WEST - RESTROOM C128,C129,C130,C131

1/4" = 1'-0"



5 PC2.1.1 PLUMBING FLOOR PLAN - BLDG C - EAST - CUSTODIAL CLOSET

1/4" = 1'-0"



2 PC2.1.0 PLUMBING FLOOR PLAN - BLDG C - WEST - TOILET C125,C126

1/4" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT
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KEY NOTES

#	
1	4" WASTE DOWN.
2	3/4" CW DOWN.
3	3/4" CONDENSATE DRAIN DOWN IN WALL. EXTEND TO LAVATORY'S TRAP WYE BRANCH TAILPIECE. SEE DETAIL 9/A5.10.
4	2" VENT UP.
5	1" CONDENSATE DRAIN DOWN IN WALL AND DRAIN INDIRECT TO MOP SINK.
6	6" OSD UP.
7	6" SD UP.
8	6" SD DOWN.
9	6" OSD DOWN.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.
B. REFER TO SHEET AP1.0.1 FOR PLUMBING SITE PLAN.
C. REFER TO ARCHITECTURAL SHEETS FOR EXACT LOCATIONS OF PLUMBING FIXTURES AND EQUIPMENT.
D. THESE DRAWINGS ARE TO BE CONSIDERED NOT FOR CONSTRUCTION UNTIL THEY ARE STAMPED, SIGNED, AND PERMITTED. UNTIL THEN THEY ARE SUBJECT TO CHANGE WITHOUT NOTICE.
E. PROVIDE ACCESS PANEL FOR TRAP PRIMERS, WATER HAMMER ARRESTORS, SHUT-OFF VALVES.

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OFFICE OF REGULATION SERVICES
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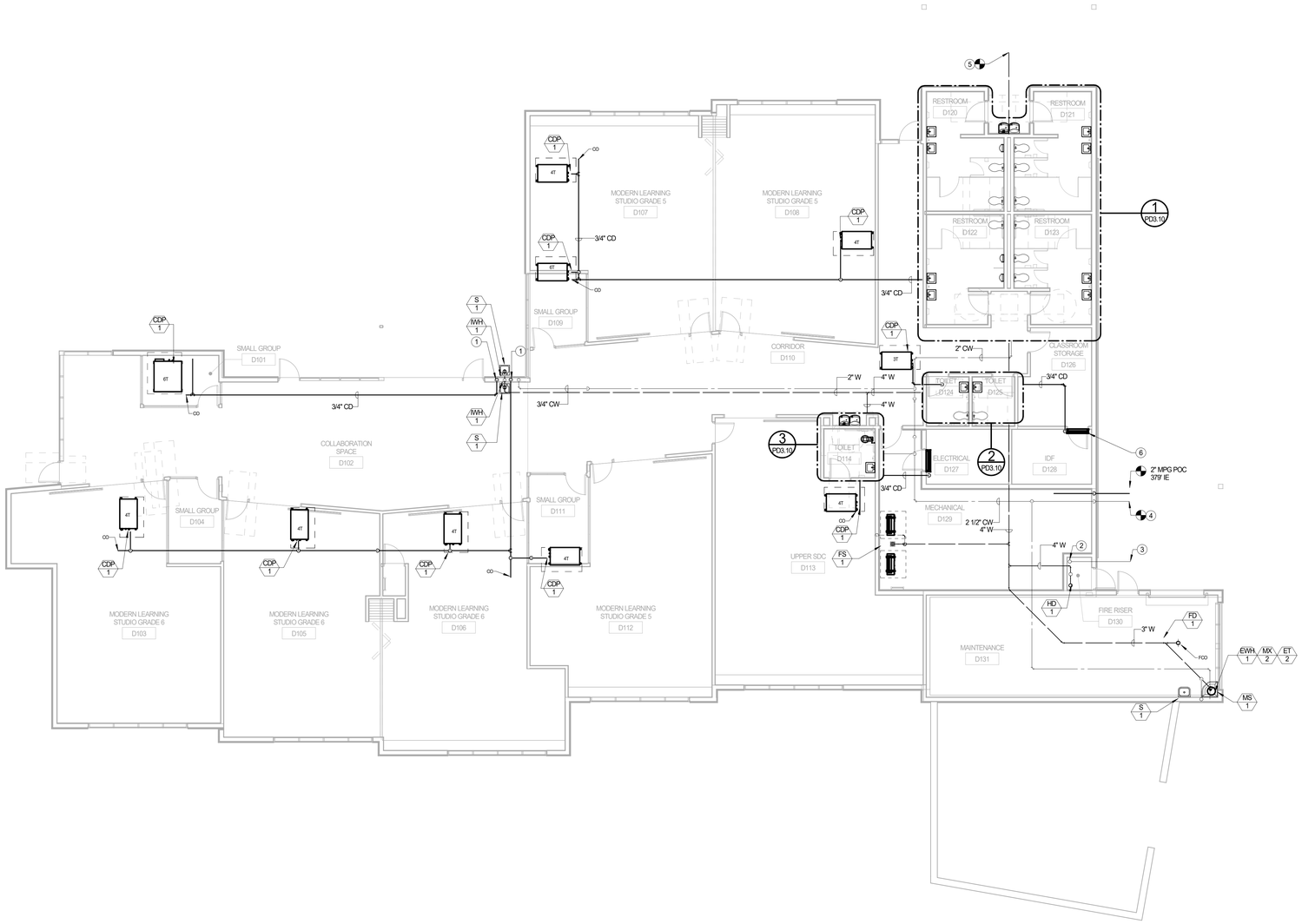
PLUMBING ENLARGE FLOOR PLANS

NO.	DATE	ISSUE

PROJECT NO: 5003
DATE: Issue Date

DRAWING
PC2.2.2

2/13/2020 3:33:30 PM BIM 360://19009-00 Del Mar Heights ES/PLMG-MAE-DMHS-BLDG C.rvt



1 PLUMBING FIRST FLOOR PLAN - BLDG D
1/8" = 1'-0"

0' 4' 8' 16'

BIM 360://19009-00 Del Mar Heights ES/PLMG-MAE-DMHS-BLDG D.rvt
2/13/2020 3:27:22 PM

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEY NOTES

#	
1	3/4" CONDENSATE DRAIN DOWN IN WALL. EXTEND TO SINK'S TRAP WYE BRANCH TAILPIECE. SEE DETAIL 9/A5.10..
2	4" FIRE RISER UP.
3	4" FIRE MAIN UP. SEE P1.0 FOR CONTINUATION.
4	BLDG D-2-1/2" CW POC TO CIVIL. 375' IE. SEE CIVIL DRAWINGS 1/C5.6 FOR CONTINUATION.
5	BLDG D-4" W POC TO CIVIL. 377.58' IE. SEE CIVIL DRAWINGS 1/C5.6 FOR CONTINUATION.
6	MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE MECHANICAL DRAWINGS (TYP.)

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.

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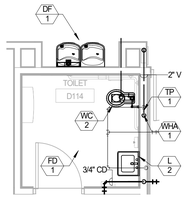
BLDG D

PLUMBING FIRST FLOOR PLAN - BLDG D

NO.	DATE	ISSUE

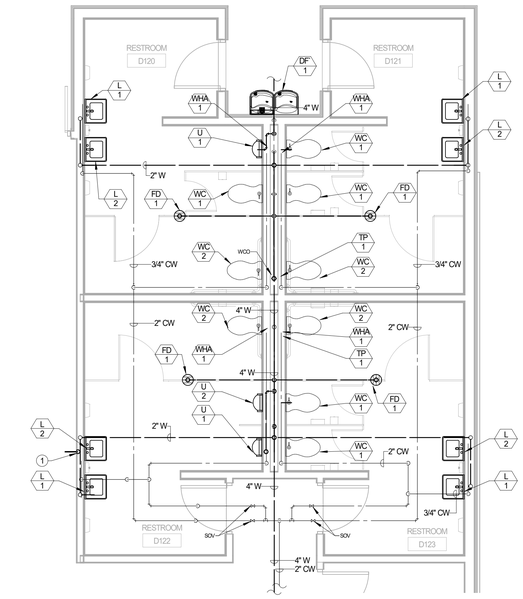
PROJECT NO: 5003
DATE: Issue Date

DRAWING
PD2.1.0



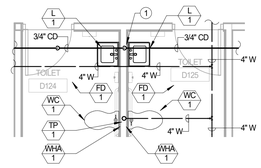
3 PLUMBING FIRST FLOOR PLAN - BLDG D - TOILET D114

1/4" = 1'-0"



1 PLUMBING FIRST FLOOR PLAN - BLDG D - RESTROOM D120,D121,D122,D123

1/4" = 1'-0"



2 PLUMBING FIRST FLOOR PLAN - BLDG D - TOILET D132,D133

1/4" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEY NOTES

#	
1	3/4" CONDENSATE DRAIN DOWN IN WALL. EXTEND TO LAVATORY'S TRAP WYE BRANCH TAILPIECE. SEE DETAIL 9/A5.10.

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.

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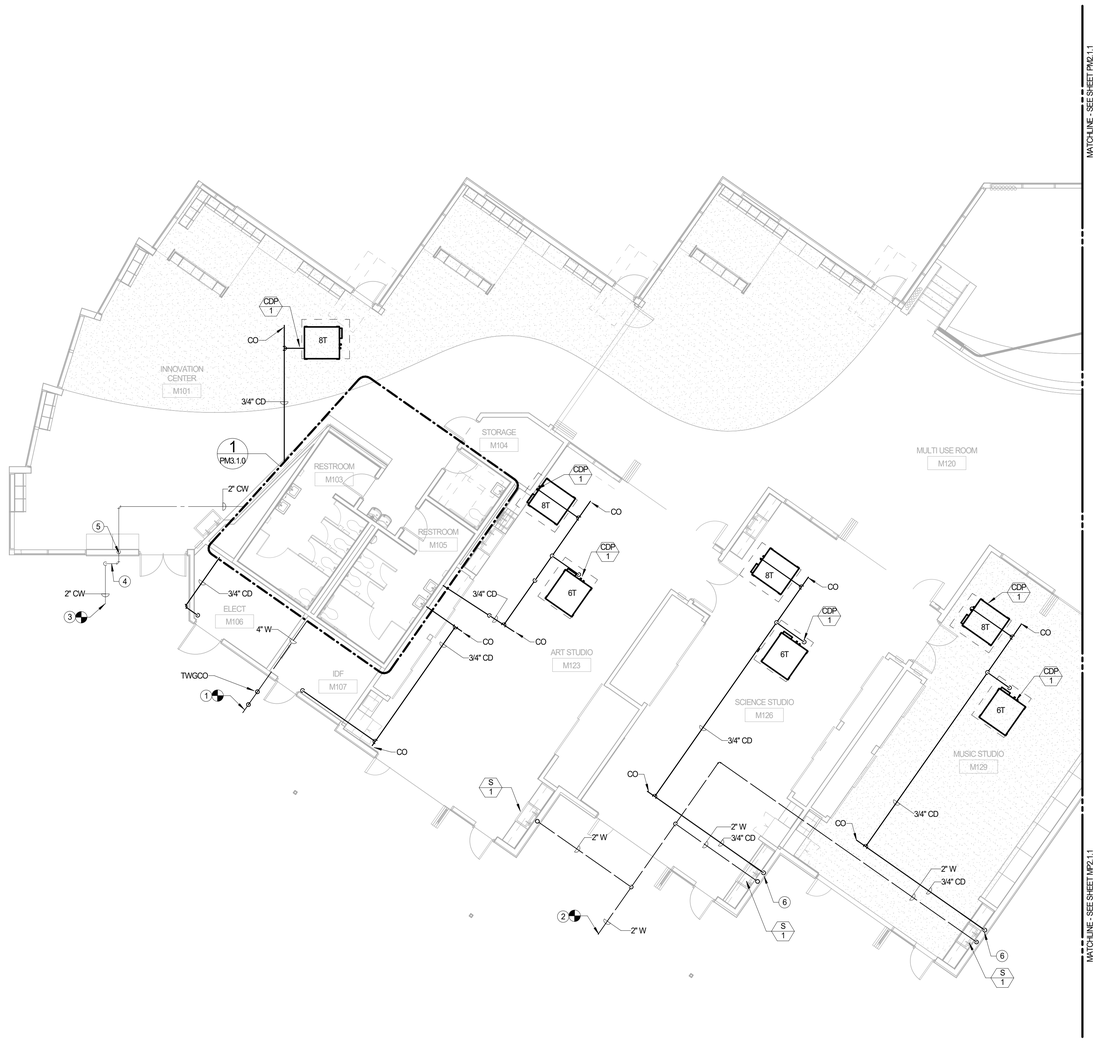
PLUMBING ENLARGED PLANS

NO.	DATE	ISSUE

PROJECT NO: 5003
DATE: Issue Date

DRAWING
PD3.10

2/13/2020 3:27:22 PM BIM 360://19009-00 Del Mar Heights ES\PLMG-MAE-DMHS-BLDG D.rvt



1 PLUMBING FIRST FLOOR PLAN - BLDG M - AREA A

1/8" = 1'-0"

0' 4' 8' 16'

BIM 360://19009-00 Del Mar Heights ES/PLMS-MAE-DMHS-BLDG M.rvt

2/13/2020 3:04:15 PM

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEY NOTES

#	
1	BLDG M-4" W POC TO CIVIL. 381.92' IE. SEE CIVIL DRAWINGS 1/C5.3 FOR CONTINUATION.
2	BLDG M-2" W POC TO CIVIL. 381.83' IE. SEE CIVIL DRAWINGS 1/C5.3 FOR CONTINUATION.
3	BLDG M-2" CW POC TO CIVIL. 382.25' IE. SEE CIVIL DRAWINGS 1/C5.1 FOR CONTINUATION.
4	WATER PRESSURE REDUCING VALVE. SEE SHEET 6/AP5.10 FOR DETAIL.
5	2" CW UP.
6	3/4" CONDENSATE DRAIN DOWN IN WALL. EXTEND TO SINK'S TRAP WYE BRANCH TAILPIECE. SEE DETAIL 9/AS.10..

GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO THE START OF CONSTRUCTION.

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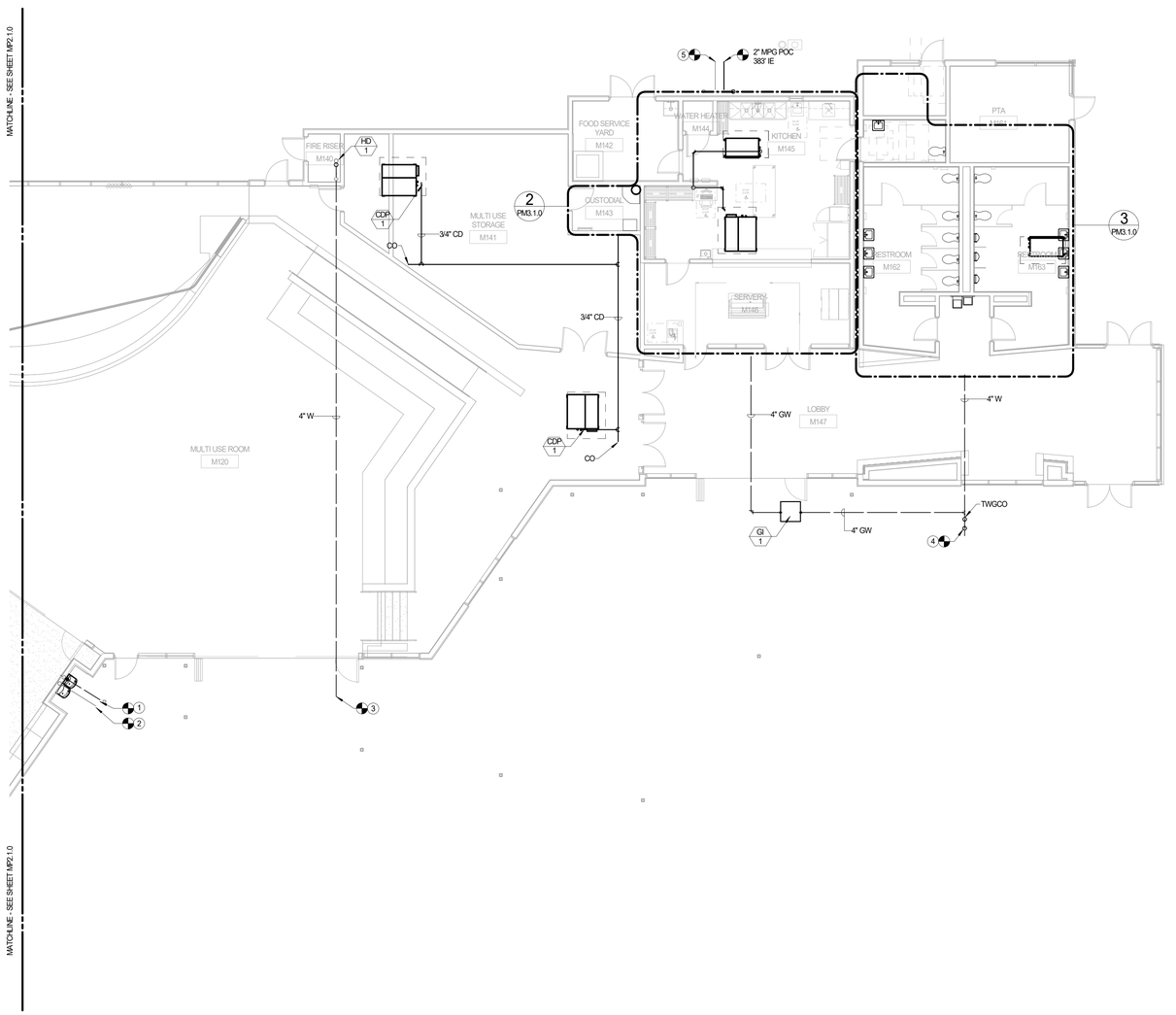
BLDG M

PLUMBING FIRST FLOOR PLAN - BLDG M - AREA A

NO.	DATE	ISSUE

PROJECT NO: 5003
DATE: Issue Date

DRAWING
PM2.1.0



1 PLUMBING FIRST FLOOR PLAN - BLDG M - AREA B
1/8" = 1'-0"

0' 4' 8' 16'

2/13/2020 3:04:15 PM

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DEL MAR UNION SCHOOL DISTRICT
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KEY NOTES

#	
1	BLDG M-2" W POC TO CIVIL. 382.08' IE. SEE CIVIL DRAWINGS 1/C5.3 FOR CONTINUATION.
2	BLDG M-3/4" CW POC TO CIVIL. 382.25' IE. SEE CIVIL DRAWINGS 1/C5.3 FOR CONTINUATION.
3	BLDG M-4" W POC TO CIVIL. 381.83' IE. SEE CIVIL DRAWINGS 1/C5.6 FOR CONTINUATION.
4	BLDG M-4" W POC TO CIVIL. 381.50' IE. SEE CIVIL DRAWINGS 1/C5.1 FOR CONTINUATION.
5	BLDG M-3" CW POC TO CIVIL. 382.25' IE. SEE CIVIL DRAWINGS 1/C5.1 FOR CONTINUATION.

GENERAL NOTES

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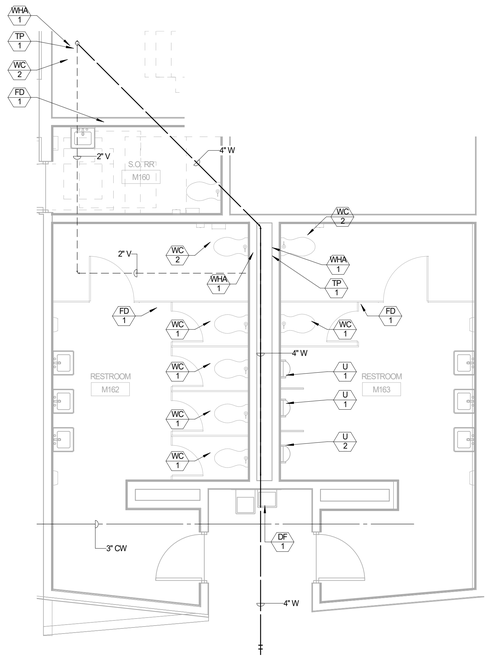
BLDG M

PLUMBING FIRST FLOOR PLAN - BLDG M - AREA B

NO.	DATE	ISSUE

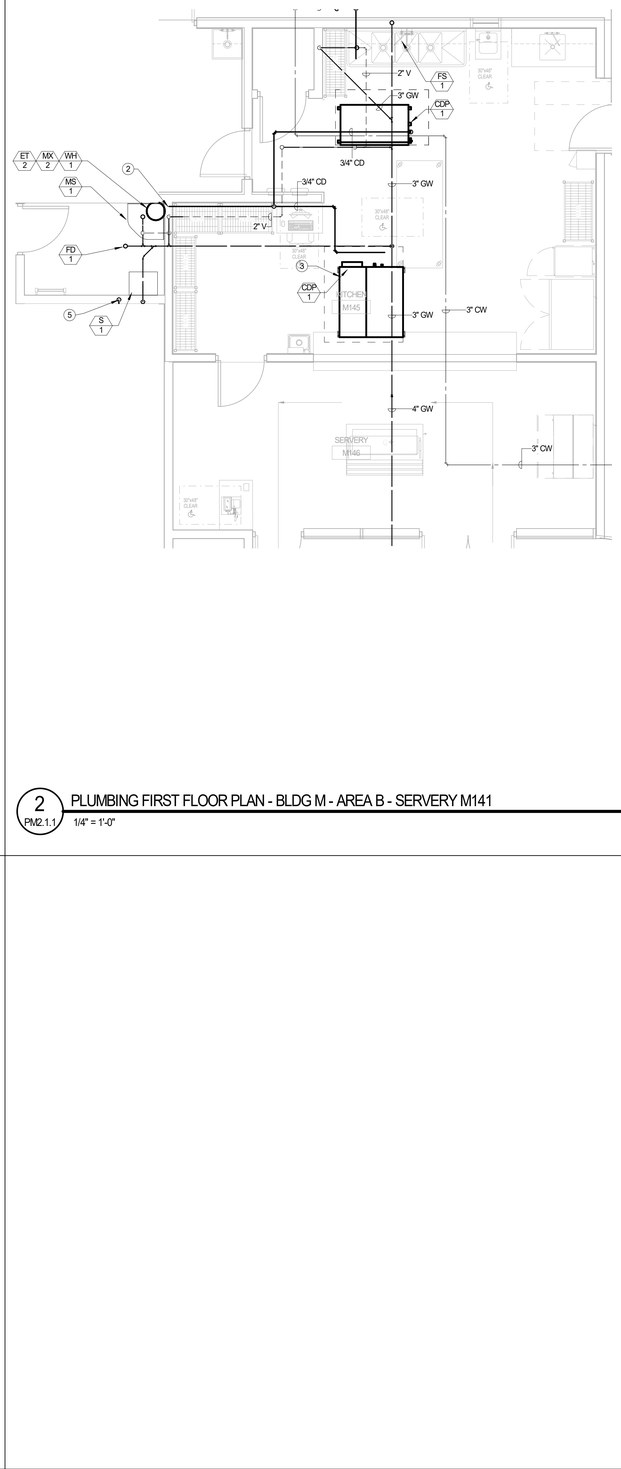
PROJECT NO: 5003
DATE: Issue Date

DRAWING
PM2.1.1



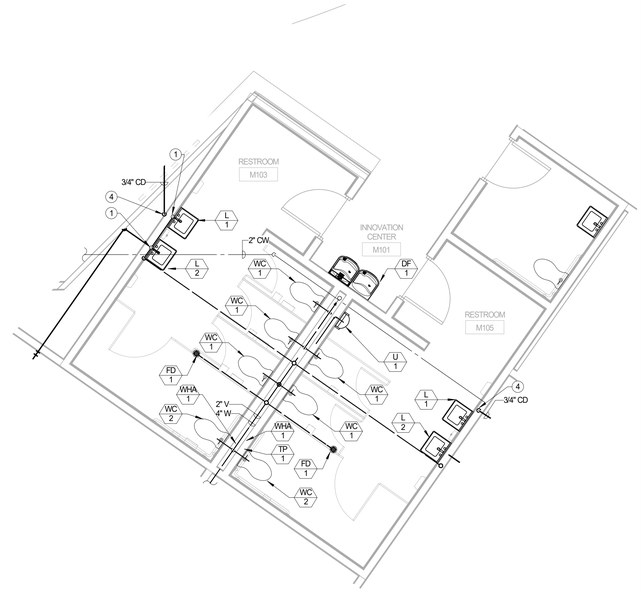
3 PM2.1.1 PLUMBING FIRST FLOOR PLAN - BLDG M - AREA B -RESTROOM M152, M153

1/4" = 1'-0"



2 PM2.1.1 PLUMBING FIRST FLOOR PLAN - BLDG M - AREA B - SERVERY M141

1/4" = 1'-0"



1 PM2.1.0 PLUMBING FIRST FLOOR PLAN - BLDG M - AREA A - Callout 1

1/4" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

KEY NOTES

#	
1	2" VENT UP.
2	3/4" CONDENSATE DRAIN DOWN IN WALL AND DRAIN INDIRECT TO MOP SINK.
3	MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE MECHANICAL DRAWINGS (TYP.)
4	3/4" CONDENSATE DRAIN DOWN IN WALL. EXTEND TO LAVATORY'S TRAP WYE BRANCH TAILPIECE. SEE DETAIL 9/A5.10.
5	3/4" CONDENSATE DRAIN DOWN IN WALL. EXTEND TO SINK'S TRAP WYE BRANCH TAILPIECE. SEE DETAIL 9/A5.10..

GENERAL NOTES

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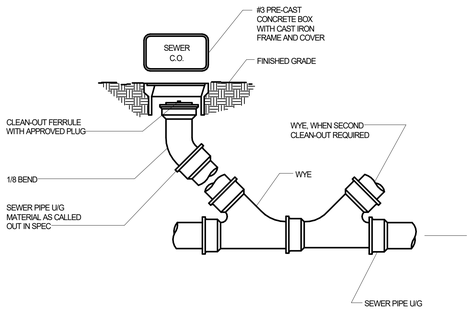
PLUMBING ENLARGED PLANS

NO.	DATE	ISSUE

PROJECT NO: 5003
DATE: Issue Date

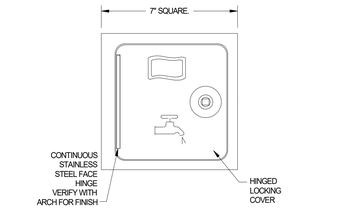
DRAWING
PM3.1.0

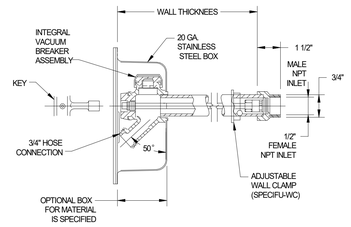
2/13/2020 3:04:15 PM BIM 360://19009-00 Del Mar Heights ES/PLMG-MAE-DMHS-BLDG M.rvt



7 CLEAN OUT TO GRADE DETAIL

NO SCALE



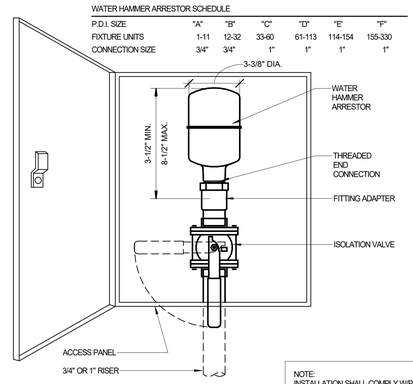


4 HOSE BIBB DETAIL (BOX TYPE)

NO SCALE

WATER HAMMER ARRESTOR SCHEDULE

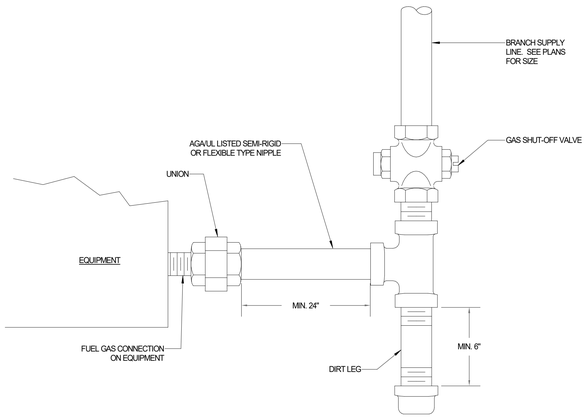
P.D.I. SIZE	"A"	"B"	"C"	"D"	"E"	"F"
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330
CONNECTION SIZE	3/4"	3/4"	1"	1"	1"	1"



NOTE:
INSTALLATION SHALL COMPLY W/P.D.I. STANDARD WH-201. UNITS NOT SIZED ON PLAN SHALL BE SIZED PER SCHEDULE ABOVE

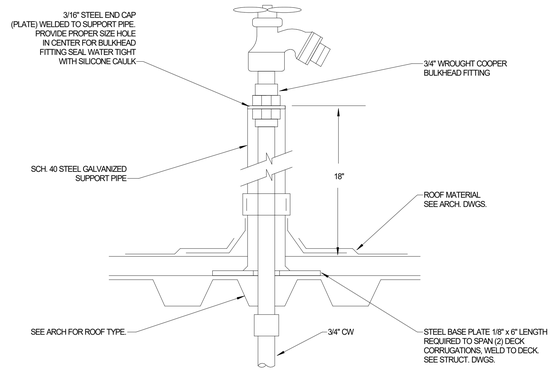
1 WATER HAMMER ARRESTOR ASSEMBLY DETAIL

1/2" = 1'-0"



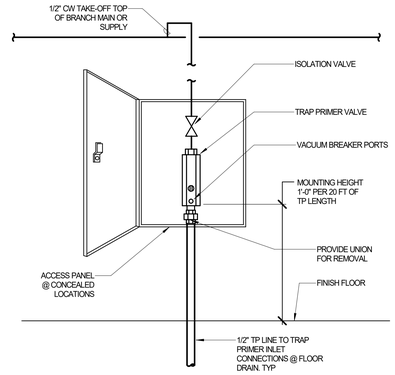
8 GAS CONECTION DETAIL

NO SCALE



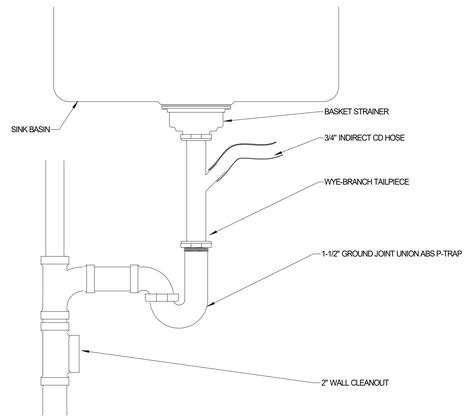
5 HOSE BIBB ON ROOF DETAIL

NO SCALE



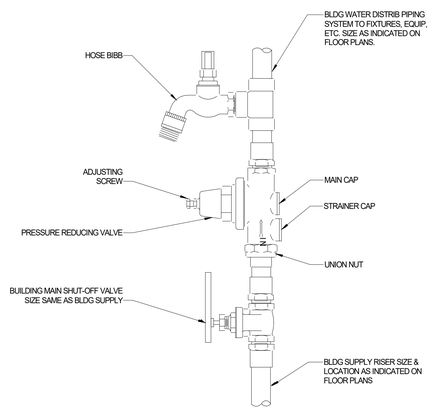
2 TRAP PRIMER IN ACCESS PANEL DETAIL

1/2" = 1'-0"



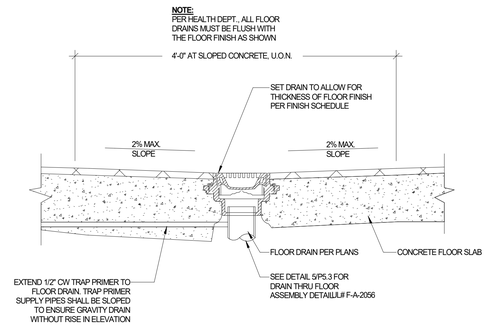
9 INDIRECT CONDENSATE DRAIN DETAIL (LAV/SINK)

NO SCALE



6 BUILDING MAIN WATER SHUT-OFF VALVE ASSEMBLY DETAIL

NO SCALE



3 FLOOR DRAIN DETAIL

NOT TO SCALE

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

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MECHANICAL
STATE OF CALIFORNIA

FOR PLAN REVIEW ONLY

IDENTIFICATION NUMBER
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL # 04-XXXXXX
AC _____ F/LS _____ SS _____
6040 DATE:

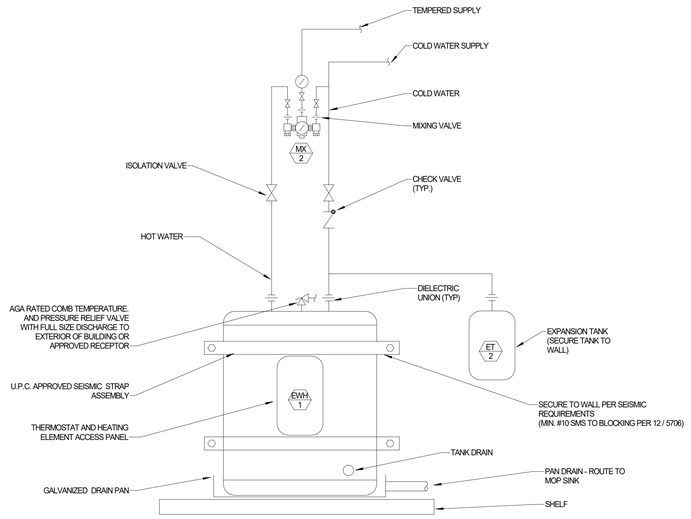
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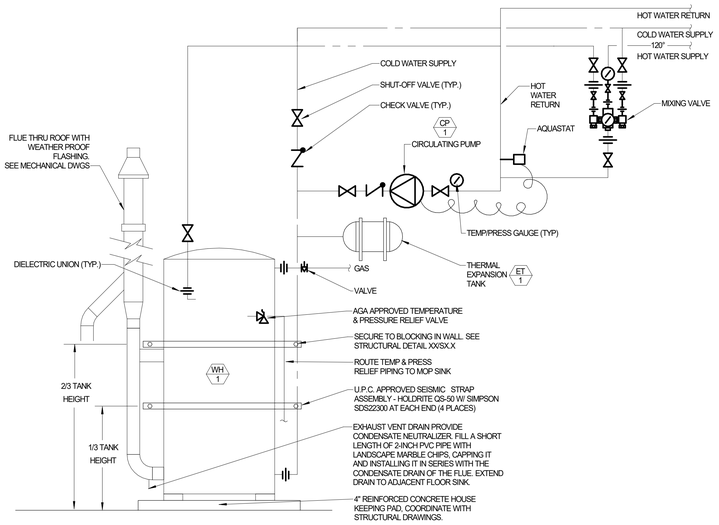
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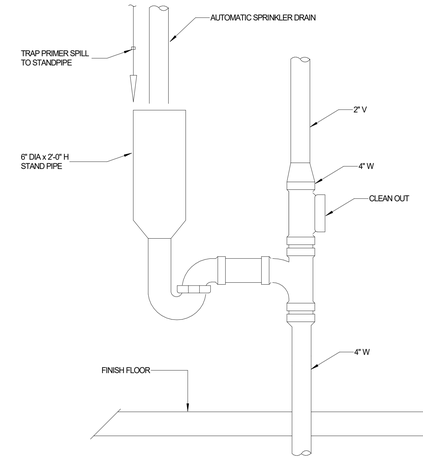
4 ELECTRIC WATER HEATER (SHELF) DETAIL

NO SCALE



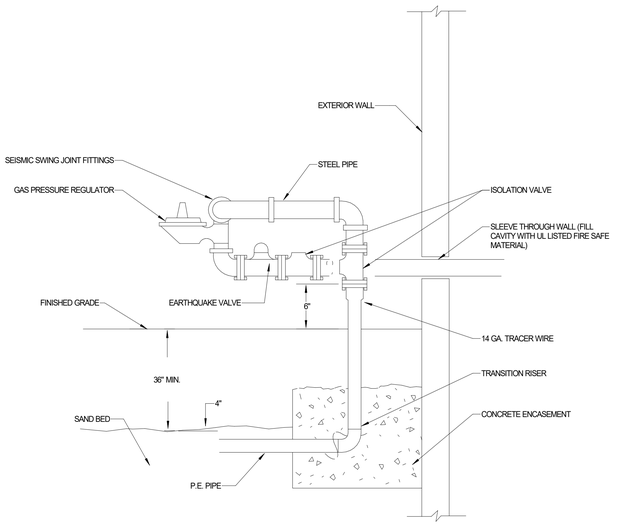
1 GAS WATER HEATER DETAIL

NO SCALE



2 HUB DRAIN

NO SCALE



3 GAS PRESSURE REGULATOR DETAIL

NO SCALE

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INC. 2 DEL MAR HEIGHTS SCHOOL
FIRE SPRINKLER SYSTEM

FIRE LEGEND

SYMBOL	ABBR	DESCRIPTION
		NEW PIPING
		EXISTING PIPING
		RECLAIMED FIRE SERVICE PER CIVIL C3.1
		EXISTING PIPING TO BE REMOVED
		PIPE HANGER LOCATION
		PIPE HANGER RESTRAINT
		FLANGED CONNECTION
		"RIDGID" GRV COUPLING
		"FLEXIBLE" GRV COUPLING
		SCREWED CAP
		FIRE HYDRANT
#2(1'-2")		HANGER TYPE AND LENGTH
		SCREWED PLUG
	2-WAY	2-WAY SEISMIC BRACE
	4-WAY	4-WAY SEISMIC BRACE
	FDC	FIRE DEPT. CONN.
	TB	UNDERGROUND THRUST BLOCK
	RS	FIRE SPRINKLER RISER
		FIRE ALARM BELL
T		TAMPER SWITCH
		KEY VALVE
CL-800 AFF		PIPING ELEVATION
1		HYDRAULIC REF. POINT
L01		BRANCH LINE NUMBER
P01		WELDED BRANCH LINE PIECE NO.
M01		WELDED MAIN PIECE NO.
		WALL PENETRATION SLEEVE
	PIV/FDC	POST INDICATING VALVE W/ FIRE DEPT CONNECTION
	BFP	BACK FLOW PREVENTOR

ABBREVIATIONS

AHJ	AUTHORITY HAVING JURISDICTION
AWWA	AMERICAN WATER WORKS ASSOCIATION
BFP	BACK FLOW PREVENTER
CBC	CALIFORNIA BUILDING CODE
CFC	CALIFORNIA FIRE CODE
CPVC	CHLORINATED POLYVINYL CHLORIDE
DSA	DIVISION OF THE STATE ARCHITECT
FDC	FIRE DEPARTMENT CONNECTION
FM	FACTORY MUTUAL
IBC	INTERNATIONAL BUILDING CODE
N.F.P.A.	NATIONAL FIRE PROTECTION ASSOCIATION
PVC	POLYVINYL CHLORIDE
PIV	POST INDICATOR VALVE
PSI	PRESSURE PER SQUARE INCH
RPDA	REDUCED PRESSURE DETECTOR ASSEMBLY
SQ. IN.	SQUARE INCHES
SQ. FT.	SQUARE FEET
UL	UNDERWRITES LABRATORY

PIPE TABLES

C-900, DR-18 PVC PIPE I.D.

NOMINAL	ACTUAL
4"	4.80
6"	6.90
8"	9.05
10"	11.10
12"	13.20

SCHEDULE 10 PIPE I.D.

NOMINAL	ACTUAL
2-1/2"	2.635
3"	3.260
4"	4.260
6"	6.357
8"	8.329

SCHEDULE 40 PIPE I.D.

NOMINAL	ACTUAL
1"	1.049
1-1/4"	1.442
1-1/2"	1.682
2"	2.067

DSA BUILDING SYSTEM GENERAL NOTES

1. 2016 NFPA 13, 8.16.4.1.1: THE DESIGNER SHALL INDICATE ON THE PLANS ALL PIPING SUBJECT TO FREEZING (WHERE WATER TEMPERATURE CAN NOT BE MAINTAINED ABOUT 40 DEGREES FAHRENHEIT) AND PROVIDE APPROVED PROTECTION.
2. 2016 NFPA 13, 10.10.2.1.1: UNDERGROUND MAINS AND LEAD-IN CONNECTIONS TO SYSTEM RISERS SHALL BE COMPLETELY FLUSHED BEFORE CONNECTION IS MADE TO OVERHEAD SPRINKLER PIPING. WHERE UNDERGROUND PIPING IS FLUSHED AND NOT IMMEDIATELY CONNECTED TO OVERHEAD PIPING, THE RISER SHALL BE CAPPED OR OTHERWISE PROTECTED TO PREVENT DEBRIS, DIRT, OR ANIMALS FROM ENTERING INTO THE UNDERGROUND PIPING (WITNESSED BY THE PROJECT INSPECTOR) .
3. CERTIFIED OR WET-SIGNED WATER FLOW TEST DATA SHALL BE NO MORE THAN 12 MONTHS OLD AT THE TIME OF SUBMITTAL AND INDICATE THE LOCATIONS AND HEIGHT ELEVATIONS OF THE TEST AND RESIDUAL FLOW HYDRANTS, WATER FLOW TEST DATA MUCH BE PROVIDED BY OR WITNESSED BY THE LOCAL WATER PURVEYOR, UTILITIES COMPANY, OR LOCAL FIRE DEPARTMENT.
4. 2016 NFPA 13 FIGURE 10,10,1: A COPY OF COMPLETED AND SIGNED "CONTRACTOR'S MATERIALS & TEST CERTIFICATE FOR UNDERGROUND PIPING" SHALL BE INCLUDED IN THE CLOSE-OUT DOCUMENTS FOR BUILDING SYSTEM.
5. 2016 NFPA 13, 10.10.2.2.1: ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI, OR 50 PSI IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS. (WITNESSED BY PROJECT INSPECTOR) .
6. 2016 NFPA 13, 6.2.9.1: PROVIDE SUPPLY OF SPARE SPRINKLERS IN A PROTECTIVE CABINET, INCLUDING SPRINKLER WRENCH FOR EACH TYPE INSTALLED. SUPPLY SHALL BE NO FEWER THAN 6 SPARE SPRINKLERS MATCHING THE TYPES AND TEMPERATURES RATING IN EACH PROTECTED AREA FOR SYSTEMS LESS THAN 300 SPRINKLERS, (12 SPARE SPRINKLER HEADS FOR SYSTEMS 300 TO 1000 SPRINKLERS)
7. 2016 NFPA 13, 9.3.6.1: FURNISH RESTRAINT OF BRANCH LINES. THE END SPRINKLER ON EACH LINE SHALL BE RESTRAINED AGAINST EXCESSIVE VERTICAL AND LATERAL MOVEMENT (9.3.6.3) . BRANCH LINES SHALL BE LATERALLY RESTRAINED AT INTERVALS NOT EXCEEDING THOSE SPECIFIED IN Table 9.3.5.4 (a) and (b) (9.3.6.4) .
8. 2016 CBC 903.4.2 AND NFPA 13 8.17.4.2.3: THE INSPECTORS TEST VALVE LOCATION SHALL BE ACCESSIBLE. THE PIPE SHALL BE NO LESS THAN 1 INCH, WITH A SMOOTH BORE, CORROSION- RESISTANT ORIFICE, PROVIDING THE EQUIVALENT FLOW OR THE SMALLEST ORIFICE OF THE SPRINKLER TYPES INSTALLED WITHIN THE SYSTEM, THE DISCHARGE SHALL BE TO A DRAIN CONNECTION OR AN APPROVED LOCATION AT THE EXTERIOR OF THE BUILDING.
9. THE SPRINKLER FLOW SWITCH SHALL BE TESTED TO CONFIRM THAT WHEN THE INSPECTOR'S TEST VALVE IS ACTIVATED AN ALARM WILL SOUND NO MORE THAN 90 SECONDS AFTER INITIAL FLOW (WITNESSED BY THE PROJECT INSPECTOR)
10. 2016 CBC 904.4.2: CONNECTIONS TO PROTECTED PREMISES AND SUPERVISING STATION FIRE ALARM SYSTEMS SHALL BE TESTED TO VERIFY PROPER IDENTIFICATION AND TRANSMISSION OF ALARMS FROM AUTOMATIC FIRE EXTINGUISHING SYSTEMS (WITNESSED BY PROJECT INSPECTOR)
11. 2016 NFPA 13 SEC 25,6,1,1: SIGNAGE SHALL BE PROVIDED AS REQUIRED, INCLUDING RISER ROOM IDENTIFICATION.
12. 2016 CBC SEC 903,4,1: THE MAIN FIRE ALARM PANEL VALVE MONITORING AND WATER FLOW ALARM AND TROUBLE SIGNALS SHALL BE DISTINCTLY DIFFERENT AND SHALL BE AUTOMATICALLY TRANSMITTED TO AN APPROVED CENTRAL STATION MONITORING COMPANY.
13. 2016 NFPA 13 SEC 25,5,1: A PERMANENT HYDRAULIC CALCULATIONS DESIGN DATA PLACARD SHALL BE ATTACHED TO EACH RISER.
14. 2016 NFPA 13 SEC 6,9,1,AND 2016 CBC 903,4,2: FLOW SWITCH SHALL BE CONNECTED TO A 10 INCH OUTSIDE ALARM BELL OR OTHER AUDIBLE ALARM DEVICE AT EACH RISER. APPROVED IDENTIFICATION SIGNS SHALL BE PROVIDED ON THE OUTSIDE ALARM BELL , SPRINKLER FIRE ALARM- WHEN ALARM SOUNDS CALL 911/ FIRE DEPARTMENT.
15. TITLE 19 ARTICLE 906 (A) : A LABEL OF THE SELF-ADHESIVE TYPE SHALL BE PLACED ON THE FIRE DEPARTMENT CONNECTION OR ON THE RISER FOR FIRE SPRINKLER SYSTEM AND SHALL INCLUDE THE DATA OF INSTALLATION AND/ OR DATE SERVICE WAS PERFORMED AND LICENSE NUMBER OF PERSON PERFORMING SERVICE WORK.
16. 2016 NFPA 13 FIGURE 25.1: INSTALLING CONTRACTOR SHALL COMPLETE AND SIGN CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR THE ABOVEGROUND PIPING. THIS FORM SHALL BE GIVEN TO THE PROJECT INSPECTOR WHO WILL FORWARD TO DSA FOR FILING IN PROJECT RECORDS.

GENERAL CODE DATA

GOVERNING CODES:
BUILDING CODE: CALIFORNIA BUILDING CODE, 2016 ED.
FIRE CODE: CALIFORNIA FIRE CODE, 2016 ED
N.F.P.A. 13 2016 ED.

FIRE SPRINKLERED IN LIEU OF RATED CONSTRUCTION: NO

BLDG A /M
TYPE OF CONSTRUCTION: TYPE - V-B
NUMBER OF STORIES: 1
AREA BLDG. A: XXX S.F.
AREA BLDG. M: XXX S.F.
BUILDING HEIGHT: 30' - 0"
OCCUPANCY CLASS: GROUP A-3,S-1,E,F-1

BLDG C/D TYPE OF CONSTRUCTION: TYPE - V-B
NUMBER OF STORIES: 1
AREA BLDG. C: XXX S.F.
AREA BLDG. D: XXX S.F.
BUILDING HEIGHT: 25' - 0"
OCCUPANCY CLASS: GROUP E

WATER DEPARTMENT NOTES

1. ARRANGEMENT OF FIRE PROTECTION WATER SUPPLY AND DEVICES SHALL STRICTLY CONFORM TO THE REQUIREMENTS OF CITY OF SAN DIEGO WATER DEPARTMENT.
2. BACKFLOW PREVENTION DEVICE TO BE REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) , ASSEMBLY SHALL BE FURNISHED WITH 2 U.L. LISTED BUTTERFLY GATE VALVES, EQUIPPED WITH APPROVED TAMPER SWITCHES. BACKFLOW ASSEMBLY SHALL BE UL , CLASSIFIED, AND AWWA APPROVED FOR FIRE SERVICE INSTALLATIONS AND LISTED BY THE CROSS-CONNECTION INSTITUTE AT THE UNIVERSITY OF SOUTHERN CALIFORNIA.
3. BACKFLOW PREVENTION ASSEMBLY SHALL BE TESTED UPON INSTALLATION BY ACERTIFIED BACKFLOW TECHNICIAN, PRIOR TO ACCEPTANCE OF BACKFLOW ASSEMBLY BY THE WATER DEPARTMENT.
4. CONTRACTOR SHALL FURNISH VALVE SUPPORT STANDS AS REQUIRED AND SHALL MAINTAIN ALL INSTALLATION CLEARANCES AND HEIGHTS AS SHOWN ON THE DRAWINGS AND STANDARD DETAILS FOR THE SERVING WATER DEPARTMENT.
5. CONCRETE SLAB TO BE MINIMUM 4" THICK AND SLOPED TO DRAIN. PAD ELEVATION TO BE 1" ABOVE FINISH GRADE IN LAWN AREAS AND 2" ABOVE FINISH GRADE IN ALL OTHER AREAS. OVERALL ALL DIMENSIONS OF PAD SHALL BE AS SHOWN ON THE DRAWINGS AND STANDARD DETAILS FOR THE SERVING WATER AND FIRE DEPARTMENTS.

GENERAL BUILDING SYSTEM NOTES

1. INSTALLATION SHALL CONFORM TO THE FOLLOWING CODES AND STANDARDS:
   A. CALIFORNIA BUILDING CODE, 2016 ED.
   B. CALIFORNIA FIRE CODE, 2016 ED.
   C. N.F.P.A. 13, 2016 ED.
   D. N.F.P.A. 14, 2016 ED.
   E. N.F.P.A. 24, 2016 ED.
   F. N.F.P.A. 72, 2016 ED.
   G. ASCE 7, 2010 ED.
   H. APPLICABLE LOCAL CODES AND AMENDMENTS
2. ALL MATERIALS INSTALLED SHALL BE NEW, U.L. LISTED AND / OR F.M. APPROVED FOR FIRE PROTECTION SYSTEMS.
3. INSTALLING CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS.
4. CUTTING, NOTCHING, WELDING AND PENETRATION OF STRUCTURAL MEMBERS SHALL BE DONE ONLY IN ACCORDANCE WITH THE APPROVED PLANS OR UPON WRITTEN DIRECTIONS AND / OR APPROVAL OF THE ARCHITECT OR PROJECT STRUCTURAL ENGINEER OF RECORD.
5. ALL PIPING PENETRATIONS OF A FIRE-RATED WALL AND FLOOR ASSEMBLIES SHALL BE FURNISHED WITH A LISTED / APPROVED FIRE STOP WITH A FIRE RESISTANCE RATING EQUAL TO OR GREATER THAN THAT OF THE ASSEMBLY BEING PENETRATED. ROOF PENETRATIONS SHALL BE FLASHED AND SEALED AS APPROVED BY THE ARCHITECT.
6. WHERE VALVES OR OPERABLE SYSTEM COMPONENTS ARE PROPOSED FOR INSTALLATION IN WALL OR CEILING CAVITIES, INSTALLING CONTRACTOR SHALL FURNISH ACCESS PANELS WITH APPROVED SIGNAGE IDENTIFYING LOCATION AND FUNCTION OF COMPONENTS WITHIN.
7. FURNISH A SUPPLY OF SPARE SPRINKLERS IN ACCORDANCE WITH N.F.P.A. 13, INCLUDING WRENCHES OR SPECIAL FITTIGNS REQUIRED FOR EACH TYPE OF SPRINKLER INSTALLED. THE NUMBER OF EACH TYPE OF SPRINKLER AND THE TOTAL NUMBER OF SPRINKLERS SHALL BE AS DESCRIBED IN N.F.P.A. 13.
8. ALL PIPING SHALL BE SUPPORTED, RESTRAINED, AND SEISMICALLY BRACED STRICTLY PER N.F.P.A. 13 AND ASCE 7-10. RESTRAINTS AND LATERAL SWAY BRACING MAY BE OMITTED WHERE ROD-TYPE HANGERS DO NOT EXCEED 0'-6" IN THE MEASURED DISTANCE FROM POINT OF CONNECTION TO TOP OF PIPING.
9. FLEXIBLE AND NON-FLEXIBLE GROOVED COUPLINGS SHALL BE USED ACCORDING TO THE REQUIREMENTS FOR SEISMIC PROTECTION OF PIPING AND LOCATION OF SWAY BRACING PER N.F.P.A. 13 UNLESS NOTED OTHERWISE. WHERE GROOVED COUPLINGS ARE SHOWN ON PLANS, THEY SHALL BE CONSIDERED NON-FLEXIBLE TYPE UNLESS NOTED AS FLEXIBLE TYPE.
10. SYSTEMS OF GREATER THAN 20 SPRINKLERS SHALL BE MONITORED BY AN OFF-SITE SUPERVISORY STATION. SUPERVISORY SYSTEM AND CENTRAL STATION SHALL BE U.L. LISTED AND / OR F.M. APPROVED, AND ACCEPTABLE TO THE SERVING FIRE DEPARTMENT. SUPERVISORY SYSTEM SHALL MONITOR ALL VALVES CONTROLLING FIRE PROTECTION SYSTEM WATER SUPPLIES AND FLOW SWITCHES INSTALLED ON THE SYSTEM (S) .
11. ELECTRICAL ROOMS, TRANSFORMER VAULTS AND OTHER ROOMS WHERE DIRECT WATER APPLICATION IS UNDESIRABLE MAY BE PROVIDED WITH SHIELD TO DIRECT WATER AWAY FROM EQUIPMENT. WHERE APPROVED BY THE LOCAL FIRE OFFICIAL, APPROVED SMOKE DETECTION DEVICES MAY BE FURNISHED IN LIEU OF FIRE SPRINKLERS. DETECTION EQUIPMENT SHALL BE MONITORED WITH THE FIRE SPRINKLER SYSTEM.
12. PRIOR TO COMMISSIONING AND FINAL ACCEPTANCE TESTING, CONTRACTOR SHALL AFFIX A PERMANENT AND DURABLE HYDRAULIC DESIGN PLATE STATING THE BASIS OF DESIGN AND DEMAND FOR EACH HYDRAULICALLY DESIGNED SYSTEM PER N.F.P.A. 13. WHERE A HYDRAULIC INFORMATION PLATE IS REQUIRED AT THE FIRE DEPARTMENT CONNECTION BY N.F.P.A. 13 OR 14, SUCH SIGNAGE SHALL BE INSTALLED IN SUCH A MANNER AND FABRICATED OF SUCH MATERIALS AS TO BE PROTECTED FROM EXPOSURE TO THE ELEMENTS AND PHYSICAL DAMAGE.
13. ALL VALVES SHALL BE EQUIPPED WITH IDENTIFICATION SIGNS STATING THE PURPOSE AND FUNCTION OF THE VALVE, AND ALSO THE EXISTENCE AND LOCATION OF ANY OTHER VALVES THAT ARE REQUIRED TO BE OPERATED IN ORDER TO CONTROL OR TEST THE WATER SUPPLY TO ANY SYSTEM OR PART OF THE SYSTEM.
14. WHERE REQUIRED BY THE SERVING FIRE DEPARTMENT (LOCAL FIRE AUTHORITY) ALL CONTROL VALVES SHALL BE SUPERVISED AND/OR LOCKED IN THE OPEN POSITION. COMMON KEYED PADLOCKS SUCH AS KNOX OR EQUIVALENT SHALL BE PROVIDED BY OTHERS.
15. ELECTRICAL ALARM SWITCHES AND BELLS, AS REQUIRED TO PROVIDE INTERCONNECTION TO THE FIRE ALARM SYSTEM AND TO PROVIDE AN AUDIBLE LOCAL WATERFLOW ALARM SHALL BE PROVIDED BY THE FIRE SPRINKLER CONTRACTOR. ALL ALARM DEVICES SHALL COMPLY WITH NFPA 72 AND BE U.L. LISTED AND/OR F.M. APPROVED, AND LISTED BY CALIFORNIA STATE FIRE MARSHAL:
   A. BELL OR OTHER AUDIBLE APPLIANCE (S) AS REQUIRED BY SERVING FIRE DEPARTMENT.
   B. WATERFLOW ALARM SWITCH FOR MAIN SYSTEM RISER AND ALL SECTIONAL/FLOOR CONTROL ASSEMBLIES AS REQUIRED.
   C. SUPERVISORY (TAMPER) SWITCHES ON ALL VALVES CONTROLLING FIRE PROTECTION WATER SUPPLIES.
16. EACH WATER FLOW ALARM SWITCH SHALL BE CONNECTED TO A 10" EXTERIOR ALARM BELL OR BELL/STROBE OR APPROVED HORN/STROBE UNIT, LOCATED A S APPROVED BY RESPONDING FIRE DEPARTMENT OR LOCAL FIRE AGENCY. FURNISH IDENTIFYING SIGNAGE AT EXTERIOR ALARM DEVICE. THERE SHALL BE ONE EXTERIOR AUDIBLE ALARM FOR EVERY SPRINKLER SYSTEM. WHERE A BUILDING FIRE ALARM SYSTEM IS INSTALLED, ACTUATION OF THE SPRINKLER SYSTEM SHALL ALSO ACTUATE THE FIRE ALARM SYSTEM.
17. ACTIVATION OF THE WATER FLOW ALARM SHALL SIGNAL THE FIRE ALARM SYSTEM AND/OR SOUND THE AUDIBLE ALARM IN ACCORDANCE WITH NFPA 72.
18. ALL WIRING OF ELECTRICAL ALARM DEVICES SHALL BE SPECIFIED IN OTHER SECTIONS OF THIS CONTRACT AND THE WORK DONE BY OTHERS.
19. POWER FOR ALL FIRE SPRINKLER ALARMS SHALL BE TAKEN FROM A DESIGNATED CIRCUIT FOR FIRE ALARM USE ONLY AND SHALL BE SUPPLIED AFTER THE METER BUT AHEAD OF THE MAIN PANEL DISCONNECT. PERMANENT POWER SUPPLY MUST BE IN SERVICE BEFORE FINAL INSPECTION BY AUTHORITIES HAVING JURISDICTION.
20. PIPING SHALL BE INSTALLED SO THAT ENTIRE SYSTEM CAN BE DRAINED THROUGH MAIN AND/OR AUXILIARY DRAIN VALVES IN ACCORDANCE WITH NFPA 13.
21. MAIN DRAIN, AUXILIARY DRAIN AND INSPECTOR'S TEST CONNECTIONS SHALL DISCHARGE TO AN APPROVED LOCATION CAPABLE OF SAFELY RECEIVING THE FULL FLOW DISCHARGE OF THE DRAIN OR TEST CONNECTION.
22. CONTRACTOR SHALL MAKE PIPING ABOVE SUSPENDED CEILING ACCESSIBLE TO FIRE DEPARTMENT PERSONNEL FOR VISUAL INSPECTIONS AS A CONDITION FOR FINAL APPROVAL.
23. ALL WELDED PIPE SHALL BE MADE AVAILABLE FOR INSPECTION BY AUTHORITIES HAVING JURISDICTION BEFORE START OF INSTALLATION. CERTIFIED WELDER SHALL PROVIDE I.D. STAMP ON EACH WELD.
24. BUILDING SPRINKLER SYSTEM SHALL NOT CONNECT TO SITE UNDERGROUND MAIN UNTIL SITE PIPING HAS BEEN TESTED AND FLUSHED PER NFPA 13 AND/OR ALL TESTING AND FLUSHING SHALL BE WITNESSED AND APPROVED BY PROJECT INSPECTOR OF RECORD AND/OR AUTHORITIES HAVING JURISDICTION. INSTALLING CONTRACTOR SHALL EXECUTE AND FURNISH A COMPLETED AND SIGNED COPY OF THE "CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR UNDERGROUND PIPING"PER NFPA 13,WHEN UNDERGROUND PIPING IS TESTED AND FLUSHED BUT NOT IMMEDIATELY CONNECTED TO THE BUILDING SYSTEM PIPING, IT SHALL BE CAPPED OR OTHERWISE PROTECTED AGAINST ENTRY OF DEBRIS, DIRT OR ANIMALS.
25. ALL PIPING AND ATTACHED APPURTENANCES SHALL BE HYDROSTATICALLY TESTED AT 200 PSI OR 50 PSI OVER THE MAXIMUM SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, FOR A PERIOD OF AT LEAST TWO HOURS WITH NO LOSS OF PRESSURE. HYDROSTATIC TESTING SHALL BE WITNESSED AND ATTESTED TO BY PROJECT INSPECTOR OF RECORD AND/OR AUTHORITIES HAVING JURISDICTION.
26. UPON COMPLETION OF ALL TESTS AND INSPECTIONS, BUILDING SYSTEM CONTRACTOR SHALL EXECUTE AND FURNISH A COMPLETED AND SIGNED COPY OF THE "CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR ABOVEGROUND PIPING" PER NFPA 13.
27. UPON OCCUPANCY OF THE BUILDING, THE OWNER SHALL BE RESPONSIBLE FOR CONFORMANCE TO THE REQUIREMENTS OF TITLE 19 AND THE CALIFORNIA FIRE CODE FOR INSPECTIONS, TESTING AND MAINTENANCE OF THE SPRINKLER SYSTEM (S, AS-BUILT DRAWINGS SHALL BE KEPT ON PREMISES FOR THREE YEARS AND/OR IN THE CUSTODY OF THE OWNER OR DESIGNATED REPRESENTATIVE FOR THE LIFE OF THE BUILDING.

COORDIANTION NOTES

1. INSTALLING CONTRACTOR SHALL PREPARE A SHOP DRAWING SUBMITTAL PRIOR TO START OF WORK. THE FIRE SPRINKLER SYSTEM SUBMITTAL SHALL INCLUDE WORKING PLANS IN ACCORDANCE WITH NFPA13 SECTION 23,1 AND SUBMITTAL GUIDELINES OF THE AUTHORITY HAVING JURISDICTION (AHJ) , DEVIATION FROM APPROVED PLANS SHALL REQUIRE PERMISSION OF THE AHJ PER NFPA 13, 23,1.2.
2. CONFIGURATION OF PIPING AND SPRINKLERS SHOWN ON THESE PLANS SHALL BE USED AS A BASIS FOR LAYOUT AND INSTALLATION. CHANGES IN ELEVATION SHALL BE UNDERTAKEN BY THE INSTALLING CONTRACTOR AS REQUIRED TO EFFECT COORDINATION WITH OTHER TRADES AND/OR MAINTAIN PROPER CLEARANCES. ALL SUCH REVISIONS SHALL BE SHOWN ON CONTRACTOR'S WORKING PLANS.
3. ALL DIMENSIONS SHOWN ON THESE PLANS ARE CENTERLINE-TO-CENTERLINE. INSTALLING CONTRACTOR SHALL INSPECT AND CONFIRM THE ACTUAL AS-BUILT CONDITIONS OF ALL WORK AREAS AND SHALL COORDINATE THE INSTALLATION OF FIXED FIRE PROTECTION SYSTEMS WITH ALL WORK BY OTHER TRADES.
   A. THE EXACT LOCATION AND ELEVATION OF INSTALLED PIPING AND THE CUT LENGTHS OF ALL PIPING AND HANGERS SHALL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR.
   B. INSTALLING CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH OBSTRUCTIONS SUCH AS STRUCTURE, DUCTWORK, CABLE TRAYS AND OTHER SUCH BUILDING UTILITY SYSTEMS AND WORK BY OTHER TRADES.
   C. WHERE FIELD CONFLICTS REQUIRE THAT PIPING BE REVISED, SUCH CHANGES SHALL BE INCLUDED IN CONTRACTOR'S WORKING PLANS AND SUBMITTED TO ARCHITECT FOR REVIEW, TO ASSURE CONFORMANCE TO APPROVED DESIGN.
   D. CONTRACTOR SHALL NOT SUBMIT COPIES OF APPROVED CONSTRUCTION DOCUMENTS PRIOR TO COORDINATION OR IN LIEU OF COORDINATED WORKING PLANS.
4. WHERE PENDENT SPRINKLERS ARE SHOWN IN OR NEAR THE EXACT CENTER OF SUSPENDED CEILING TILES; CONTRACTOR SHALL BE CONFIRM THE ACTUAL TILE PATTERN AND SPRINKLER LOCATIONS, SO THAT THE FINAL INSTALLATION IS EXACTLY CENTERED. WHERE CEILING TILES ARE 2'X4' "SECOND LOOK" TYPE WITH 2'X2' MODULES, SPRINKLERS SHALL BE SHALL BE IN THE EXACT CENTER OF THE 2'X2' MODULE. WHERE CEILING TILES ARE CONVENTIONAL 2'X4', SPRINKLERS SHALL BE CENTERED IN THE 2' DIRECTION AND SHALL BE LOCATED AT LEAST 6" CLEAR FROM ANY T-BAR.
5. CONTRACTOR SHALL FURNISH AND COORDINATE CONNECTION POINTS BETWEEN FIRE SPRINKLER SYSTEM SIGNALING DEVICES AND THE FIRE DETECTION AND ALARM SYSTEM. THIS SHALL INCLUDE BUT IS NOT LIMITED TO THE LOCATION OF ALL BELLS AND HORNS, FLOW SWITCHES AND TAMPER SWITCHES REQUIRING CONNECTION TO THE FIRE ALARM AND SUPERVISORY SYSTEMS.
6. CONTRACTOR SHALL UNDERTAKE MEETINGS AND CORRESPONDENCE WITH ALL AGENCIES HAVING JURISDICTION, AS REQUIRED TO CONFIRM SPECIFIC REQUIREMENTS REGARDING LOCATIONS AND METHODS OF DISCHARGING WATER FROM TEST AND DRAIN LOCATIONS. WHERE SHOWN ON PLANS, ALL WASTEWATER SHALL DISCHARGE INTO DEDICATED RECEPTORS AND BE COORDINATED WITH THE PLUMBING AND SEWER DESIGNS.

SCOPE OF WORK

FURNISH NEW PRIVATE FIRE MAIN SYSTEM AND WET-PIPE AUTOMATIC FIRE SPRINKLER SYSTEM PER N.F.P.A. 13 & 24 , 2016 ed, AND THE DIVISION OF THE STATE ARCHITECT STANDARDS AT THE NEW & EXISTING DEL MAR HEIGHTS SCHOOL BLDGS.

DESIGN NOTES

1. SPRINKLERS
   A. LOCATION: DA-01 TRAINING ROOM
      HAZARD GROUP: LIGHT HAZARD
      DISCHARGE DENSITY: .10
      QR AREA REDUCTION: YES
      HOSE STREAM ALLOWANCE
      OUTSIDE: 100
      INSIDE: 0
      COMBINED: 100
      CONSTRUCTION CLASSIFICATION
      NOT OBSTRUCTED / NOT COMBUSTIBLE
2. UNDERGROUND PIPE TYPES (SEE PIPE TABLES)
   A. UNDERGROUND MAINS: C-900,PVC, CLASS 200
   B. UNDERGROUND TRANSITIONS THROUGH WALLS AND UNDER FOOTINGS: AWWA C151 DUCTILE IRON, CLASS 350 OR TYPE 304 STAINLESS STEEL
3. BUILDING SYSTEM PIPE TYPES (SEE PIPE TABLES)
   A. MAIN PIPING: BLACK STEEL, SCHEDULE 10
      FITTINGS: GROOVED/WELDED
   B. BRANCH PIPING: BLACK STEEL, SCHEDULE 40
      FITTINGS: THREADED CAST/MALLEABLE IRON
4. SEE SPRINKLER LEGEND ON PLANS FOR SPACING OF SPRINKLERS AND FINISHES

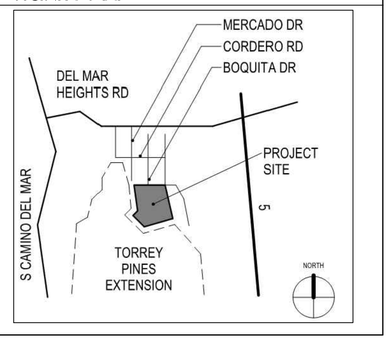
SHEET INDEX

FP-1.0 FIRE PROTECTION GENERAL NOTES
FP-1.1 UNDERGROUND SITE FIRE PIPING PLAN
FP-2.0 BLDG. A - PIPING PLAN
FP-2.1 BLDG. C NORTH - PIPING PLAN
FP-2.2 BLDG. C SOUTH - PIPING PLAN
FP-2.3 BLDG. D - PIPING PLAN
FP-2.4 BLDG. M WEST - PIPING PLAN
FP-2.5 BLDG. M EAST - PIPING PLAN
FP-3.0 BLDG. A - REFLECTED CEILING PLAN
FP-3.1 BLDG. C NORTH - REFLECTED CEILING PLAN
FP-3.2 BLDG. C SOUTH - REFLECTED CEILING PLAN
FP-3.3 BLDG. D - REFLECTED CEILING PLAN
FP-3.4 BLDG. M WEST - REFLECTED CEILING PLAN
FP-3.5 BLDG. M EAST - REFLECTED CEILING PLAN
FP-4.0 FIRE PROTECTION DETAILS
FP-4.1 FIRE PROTECTION DETAILS
FP-4.2 FIRE PROTECTION BUILDING SECTIONS

WATER FLOW TEST DATA

LOCATION:	500 DYER ST. ORCUTT, CA 93455	FURNISHED BY:	GOLDEN STATE WATER COMPANY
PITOT PSI:	–	LESS 10%	
STATIC PSI:	61 PSI	STATIC PSI:	54.9 PSI
RESIDUAL PSI:	20 PSI	RESIDUAL PSI:	18 PSI
DATE TAKEN:	04/30/2019	REF. ELEV:	–0"–3" FT
		FLOW GPM:	3000 GPM

VICINITY MAP



BakerNowicki design studio
731 Ninth Avenue, Suite A, San Diego, California 92101
619.795.2450
www.bndesignstudio.com

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Project Name

PROTECTION DESIGN AND CONSULTING
2851 Camino Del Rio S. # 210
San Diego, California 92108
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fax 619.255.9547

LICENSED ARCHITECT RICHARD E. NOWICKI NO.C28042 STATE OF CALIFORNIA EXP. 8-31-2021

FOR PLAN REVIEW ONLY

IDENTIFICATION BY DIVISION OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
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AC ____ F/S ____ SS ____
DATE:

FIRE PROTECTION GENERAL NOTES

NO. DATE ISSUE

PROJECT NO:
DATE: Issue Date

DRAWING
FP-1.0

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UNDERGROUND SITE FIRE PIPING PLAN

SCALE: 1" = 30'-0"

0' 15' 30' 60' 90'

PLAN NORTH

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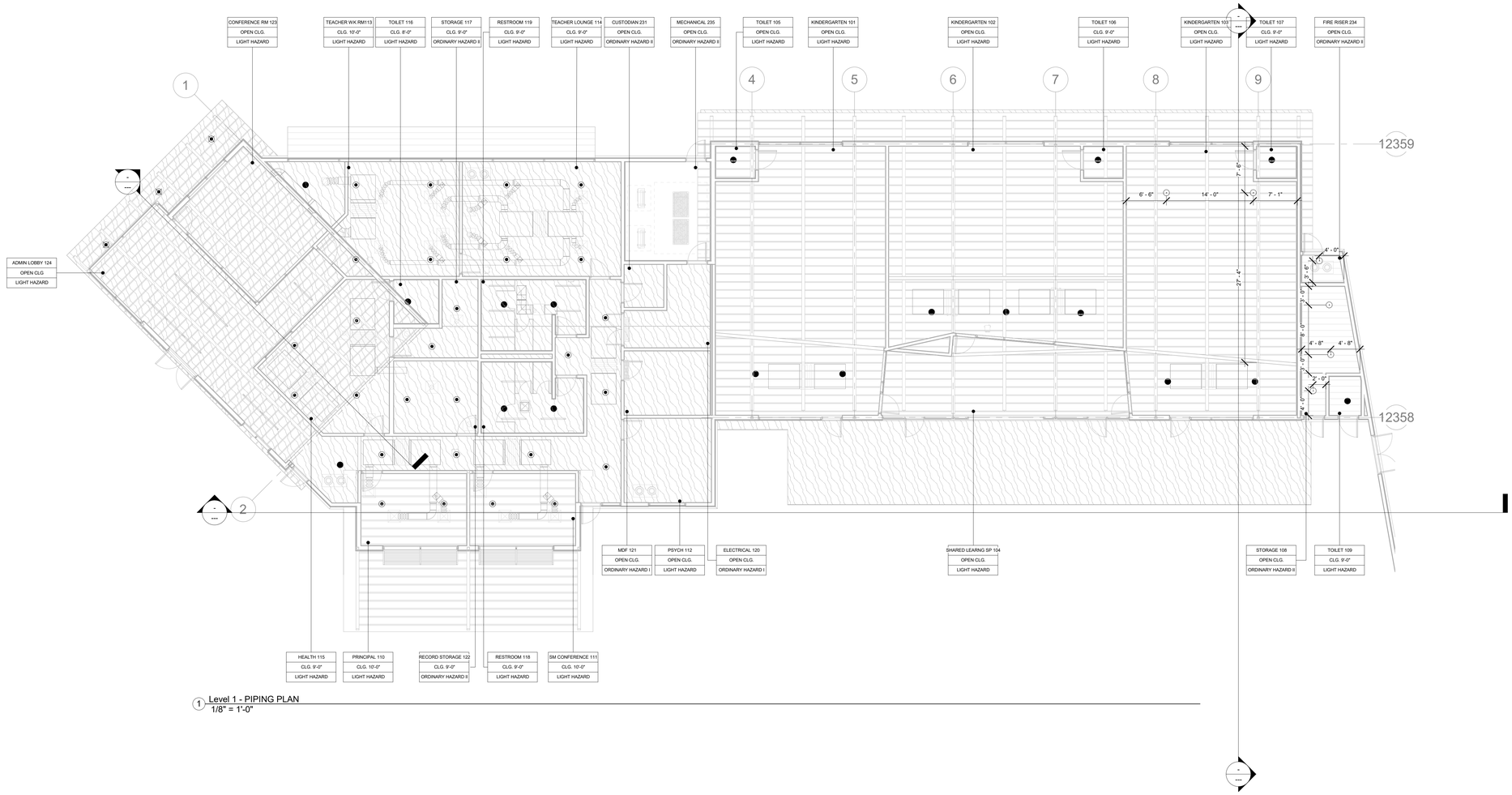
UNDERGROUND SITE FIRE PIPING

NO. DATE ISSUE

PROJECT NO:
DATE: Issue Date

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FP-1.1

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1 Level 1 - PIPING PLAN
1/8" = 1'-0"

FIRE SPRINKLER LEGEND											SPACING			ESCUTCHEON		COMMENTS	TOTAL
SYM	LOCATION	MFR	MODEL	SIN	SR/QR	K-FAC	TYPE	TEMP	FIN	THRD	MIN	MAX	AREA	TYPE	FIN		
																	000
																	000
																	000
																	000
																	000
																TOTAL THIS SHEET	000

PIPE TYPES
1. MAIN TO BE BLACK SCHEDULE 10 STEEL PIPE, U.O.N.
2. BRANCH LINES TO BE BLACK SCHEDULE 40 STEEL PIPE, U.O.N.

PIPE SIZES
1. CROSSMAINS TO BE **4"** NOMINAL DIAMETER PIPE, U.O.N.
2. BRANCH LINES TO BE **1 1/2", 1 1/4" & 1"** NOMINAL DIAMETER PIPE, U.O.N.
3. BRANCH LINES TO BE 1" NOMINAL DIAMETER PIPE, U.O.N.

DENOTES FIRESTOP PER X / FP-4.X

INSTALLATION NOTES:

HANGERS
1. HANG LINES & MAINS TO STEEL BEAMS AT ELEVATIONS NOTED PER DETAIL — X / FP-4.X
2. HANG LINES & MAINS TO CONCRETE DECK AT ELEVATIONS NOTED PER DETAIL — X / FP-4.X

DENOTES HANGER LOCATION

3. FURNISH RESTRAINING TYPE HANGERS AT THE ENDS OF ALL BRANCHLINES AND AT EVERY **26** FT ALONG THE LINES

DENOTES LATERAL RESTRAINT — X / FP-4.X

4. SEE SHEET **FP-4.0** FOR DETAILS

MAXIMUM SPACING OF RESTRAINTS (ft)
STEEL PIPE

PROJECT NAME Cp = XX

	SEISMIC COEFFICIENT (Cp)			
PIPE SIZE	Cp < 0.50	0.5< Cp <0.71	0.71< Cp <1.40	Cp > 1.40
1"	43'	36'	26'	22'
1-1/4"	46'	39'	27'	24'
1-1/2"	49'	41'	29'	25'
2"	53'	45'	31'	27'

SWAY BRACING
1. SWAY BRACING SHALL BE PER NFPA 13, 2016 EDITION AND CBC ED. 2016. SEE **FP-4.1** FOR THE DETAILS AND THE CALCULATIONS. WHERE HANGER RODS ARE LESS THAN 6" IN LENGHT, LATERAL SWAY BRACING MY BE OMITTED

DENOTES SWAY BRACE — X / FP-4.X

DENOTES 4-WAY SWAY BRACE — X / FP-4.X

HYDRAULIC SYSTEM

This building is protected by a Hydraulically Designed Automatic Sprinkler System

Location

Sprinkler Information

NUMBER OF FLOWING SPRINKLERS
MANUFACTURE
MODEL
ORIFICE
K-FACTOR

Basis of Design

STANDARD NFPA 13, EDITION
HAZARD GROUP
DENSITY GPM/S.Q. F.T.
DESIGNED AREA OF DISCHARGE S.Q. F.T.

System Demand

GPM DEMAND AT THE BASE OF THE RISER — GPM
RESIDUAL PRESSURE AT THE BASE OF THE RISER — PSI
GPM DEMAND AT THE WATER SUPPLY SOURCE — GPM
RESIDUAL PRESSURE AT THE WATER SUPPLY SOURCE — PSI
SAFETY PRESSURE — PSI
HOSE STREAM ALLOWANCE — GPM INSIDE / GPM OUTSIDE / GPM TOTAL
REMOTE SPRINKLER FLOW — GPM @ PSI

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Owner
Project Name

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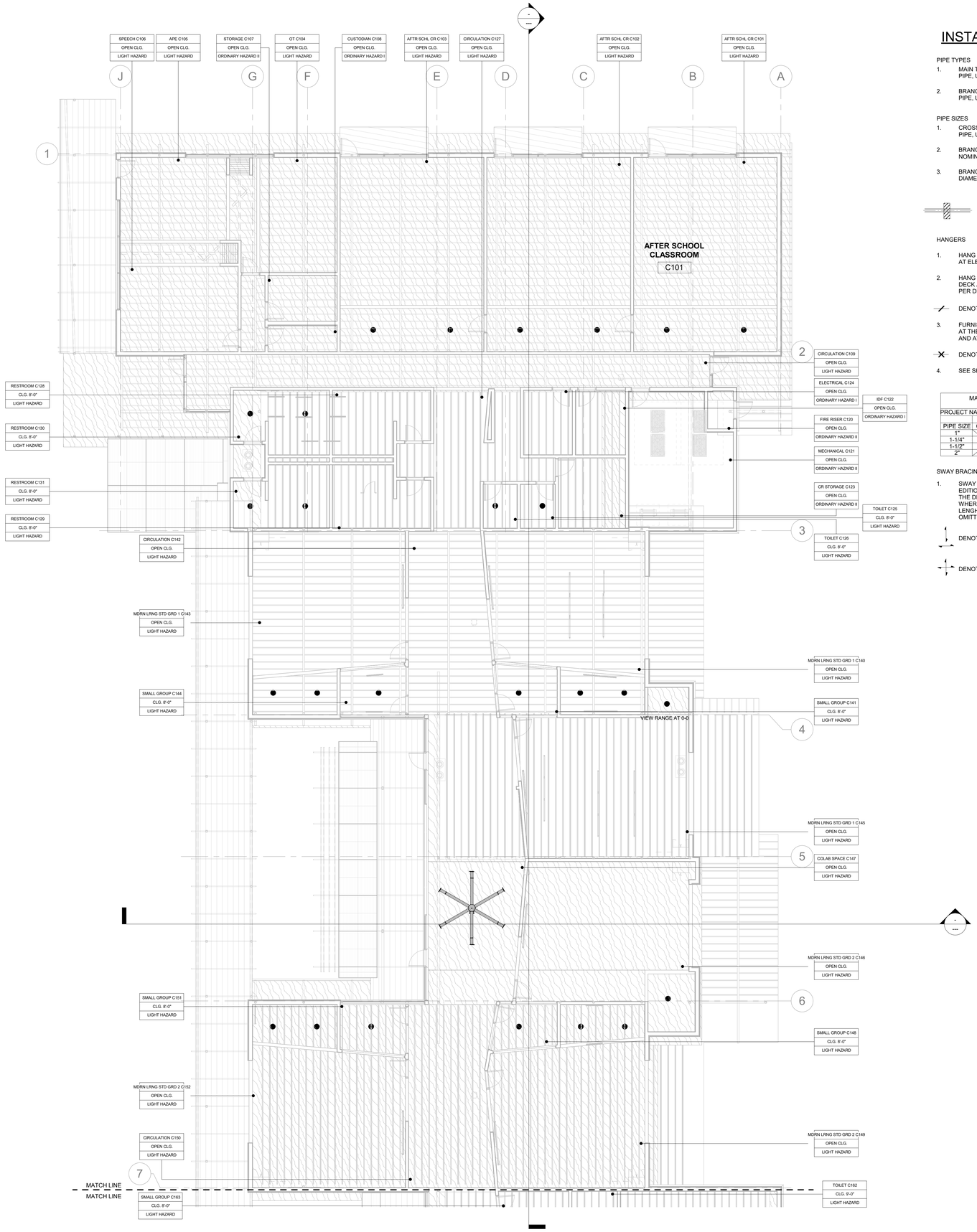
BLDG. A - PIPING PLAN

NO. DATE ISSUE

PROJECT NO:
DATE: Issue Date

DRAWING
FP-2.0

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WHERE SUSPENDED CEILING ARE NOT RIGIDLY BRACED PER ASME E580, THE SPRINKLERS TO BE INSTALLED IN THE SUSPENDED PANELS WILL REQUIRE EITHER A 2" CLEARANCE AROUND THE PENETRATION THROUGH THE PANEL, OR THE USE OF A FLEXIBLE DROP FITTING, PER ASCE7-10, SECTION 13.5.6.2.1 THROUGH 13.5.6.3

INSTALLATION NOTES:

PIPE TYPES

1. MAIN TO BE BLACK SCHEDULE 10 STEEL PIPE, U.O.N.
2. BRANCH LINES TO BE BLACK SCHEDULE 40 STEEL PIPE, U.O.N.

PIPE SIZES

1. CROSSMAINS TO BE **4"** NOMINAL DIAMETER PIPE, U.O.N.
2. BRANCH LINES TO BE **1 1/2", 1 1/4" & 1"** NOMINAL DIAMETER PIPE, U.O.N.
3. BRANCH LINES TO BE 1" NOMINAL DIAMETER PIPE, U.O.N.

DENOTES FIRESTOP PER — X / FP-4.X

HANGERS

1. HANG LINES & MAINS TO STEEL BEAMS AT ELEVATIONS NOTED PER DETAIL — X / FP-4.X
2. HANG LINES & MAINS TO CONCRETE DECK AT ELEVATIONS NOTED PER DETAIL — X / FP-4.X

DENOTES HANGER LOCATION

3. FURNISH RESTRAINING TYPE HANGERS AT THE ENDS OF ALL BRANCHLINES AND AT EVERY **26** FT ALONG THE LINES

DENOTES LATERAL RESTRAINT — X / FP-4.X

4. SEE SHEET **FP-4.0** FOR DETAILS

MAXIMUM SPACING OF RESTRAINTS (ft)
STEEL PIPE

PROJECT NAME				Cp = XX
	SEISMIC COEFFICIENT (Cp)			
PIPE SIZE	Cp < 0.50	0.5< Cp <0.71	0.71< Cp <1.40	Cp > 1.40
1"	43'	36'	26'	22'
1-1/4"	46'	39'	27'	24'
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2"	53'	45'	31'	27'

SWAY BRACING

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DENOTES SWAY BRACE — X / FP-4.X

DENOTES 4-WAY SWAY BRACE — X / FP-4.X

HYDRAULIC SYSTEM

This building is protected by a Hydraulically Designed Automatic Sprinkler System

Location

Sprinkler Information

NUMBER OF FLOWING SPRINKLERS	
MANUFACTURE	
MODEL	
K	
ORIFICE	K-FACTOR

Basis of Design

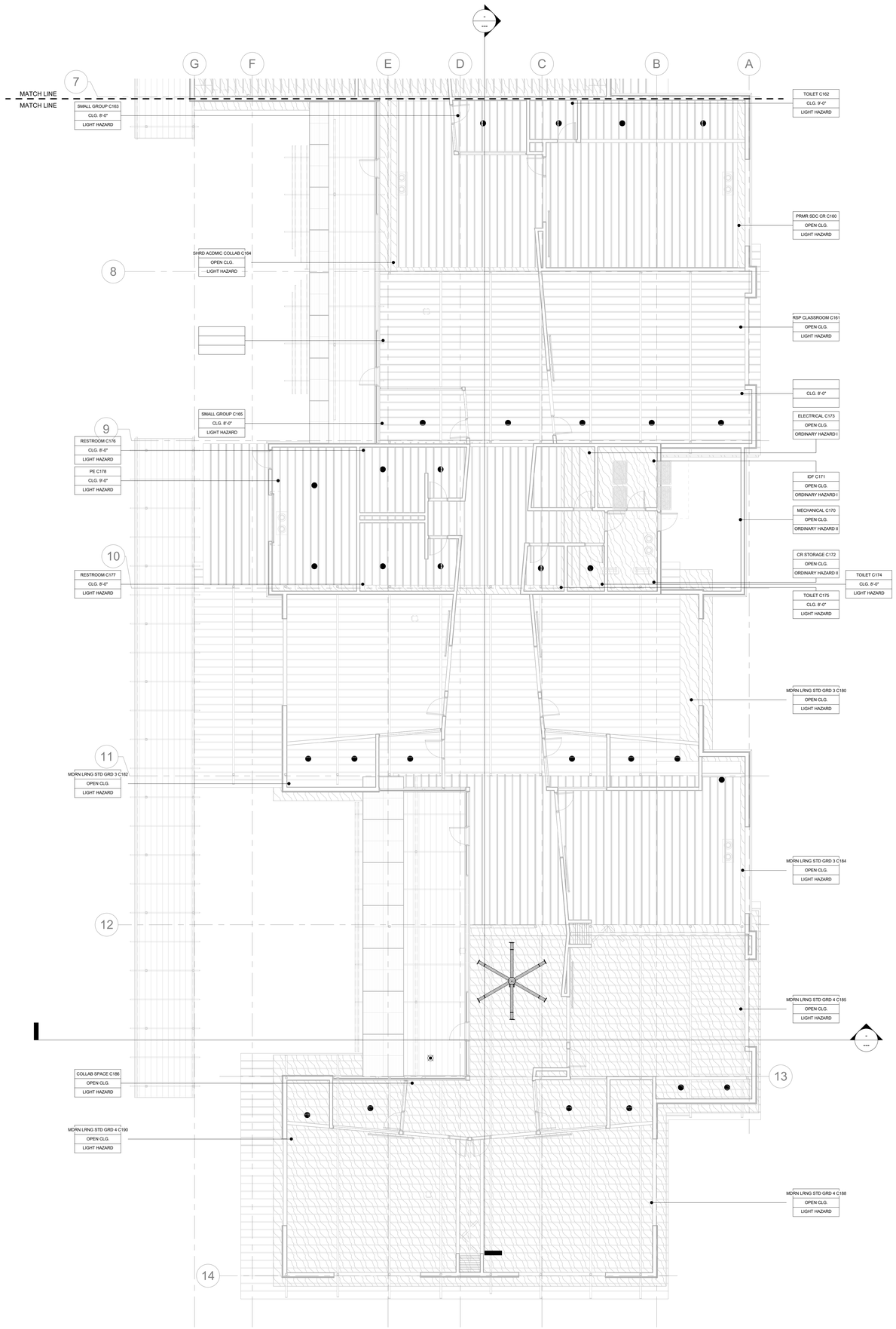
STANDARD	NFPA 13, ___ EDITION
HAZARD GROUP	
DENSITY	GPM/S.Q. F.T.
DESIGNED AREA OF DISCHARGE	S.Q. F.T.

System Demand

GPM DEMAND AT THE BASE OF THE RISER	GPM
RESIDUAL PRESSURE AT THE BASE OF THE RISER	PSI
GPM DEMAND AT THE WATER SUPPLY SOURCE	GPM
RESIDUAL PRESSURE AT THE WATER SUPPLY SOURCE	PSI
SAFETY PRESSURE	PSI
HOSE STREAM ALLOWANCE	GPM INSIDE GPM OUTSIDE GPM TOTAL
REMOTE SPRINKLER FLOW	GPM @ PSI

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fax 619.255.9547

| FIRE SPRINKLER LEGEND | | | |



1 Level 1 - PIPING SOUTH
1/8" = 1'-0"

WHERE SUSPENDED CEILING ARE NOT RIGIDLY BRACED PER ASME E580, THE SPRINKLERS TO BE INSTALLED IN THE SUSPENDED PANELS WILL REQUIRE EITHER A 2" CLEARANCE AROUND THE PENETRATION THROUGH THE PANEL, OR THE USE OF A FLEXIBLE DROP FITTING, PER ASCE7-10, SECTION 13.5.6.2.1 THROUGH 13.5.6.3

INSTALLATION NOTES:

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PIPE SIZES

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DENOTES FIRESTOP PER — X / FP-4.X

HANGERS

1. HANG LINES & MAINS TO STEEL BEAMS AT ELEVATIONS NOTED PER DETAIL — X / FP-4.X
2. HANG LINES & MAINS TO CONCRETE DECK AT ELEVATIONS NOTED PER DETAIL — X / FP-4.X
3. FURNISH RESTRAINING TYPE HANGERS AT THE ENDS OF ALL BRANCHLINES AND AT EVERY **26** FT ALONG THE LINES

DENOTES HANGER LOCATION

DENOTES LATERAL RESTRAINT — X / FP-4.X

4. SEE SHEET **FP-4.0** FOR DETAILS

MAXIMUM SPACING OF RESTRAINTS (ft)
STEEL PIPE

PROJECT NAME — Cp = XX

	SEISMIC COEFFICIENT (Cp)			
PIPE SIZE	Cp < 0.50	0.5< Cp <0.71	0.71< Cp <1.40	Cp > 1.40
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DENOTES SWAY BRACE — X / FP-4.X

DENOTES 4-WAY SWAY BRACE — X / FP-4.X

HYDRAULIC SYSTEM

This building is protected by a Hydraulically Designed Automatic Sprinkler System

Location

Sprinkler Information

NUMBER OF FLOWING SPRINKLERS	
MANUFACTURE	
MODEL	
K	
ORIFICE	K-FACTOR

Basis of Design

STANDARD	NFPA 13___ EDITION___
HAZARD GROUP	
DENSITY	GPM/S.Q. F.T.
DESIGNED AREA OF DISCHARGE	S.Q. F.T.

System Demand

GPM DEMAND AT THE BASE OF THE RISER	GPM
RESIDUAL PRESSURE AT THE BASE OF THE RISER	PSI
GPM DEMAND AT THE WATER SUPPLY SOURCE	GPM
RESIDUAL PRESSURE AT THE WATER SUPPLY SOURCE	PSI
SAFETY PRESSURE	PSI
HOSE STREAM ALLOWANCE	GPM INSIDE GPM OUTSIDE GPM TOTAL
REMOTE SPRINKLER FLOW	GPM @ PSI

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fax 619.255.9547

FIRE SPRINKLER LEGEND

SYM	LOCATION	MFR	MODEL	SIN	SR/QR	K-FAC	TYPE	TEMP	FIN	THRD	SPACING MIN	SPACING MAX	SPACING AREA	ESCUTCHEON TYPE	ESCUTCHEON FIN	COMMENTS	TOTAL
																	000
																	000
																	000
																	000
																	000
																	TOTAL THIS SHEET

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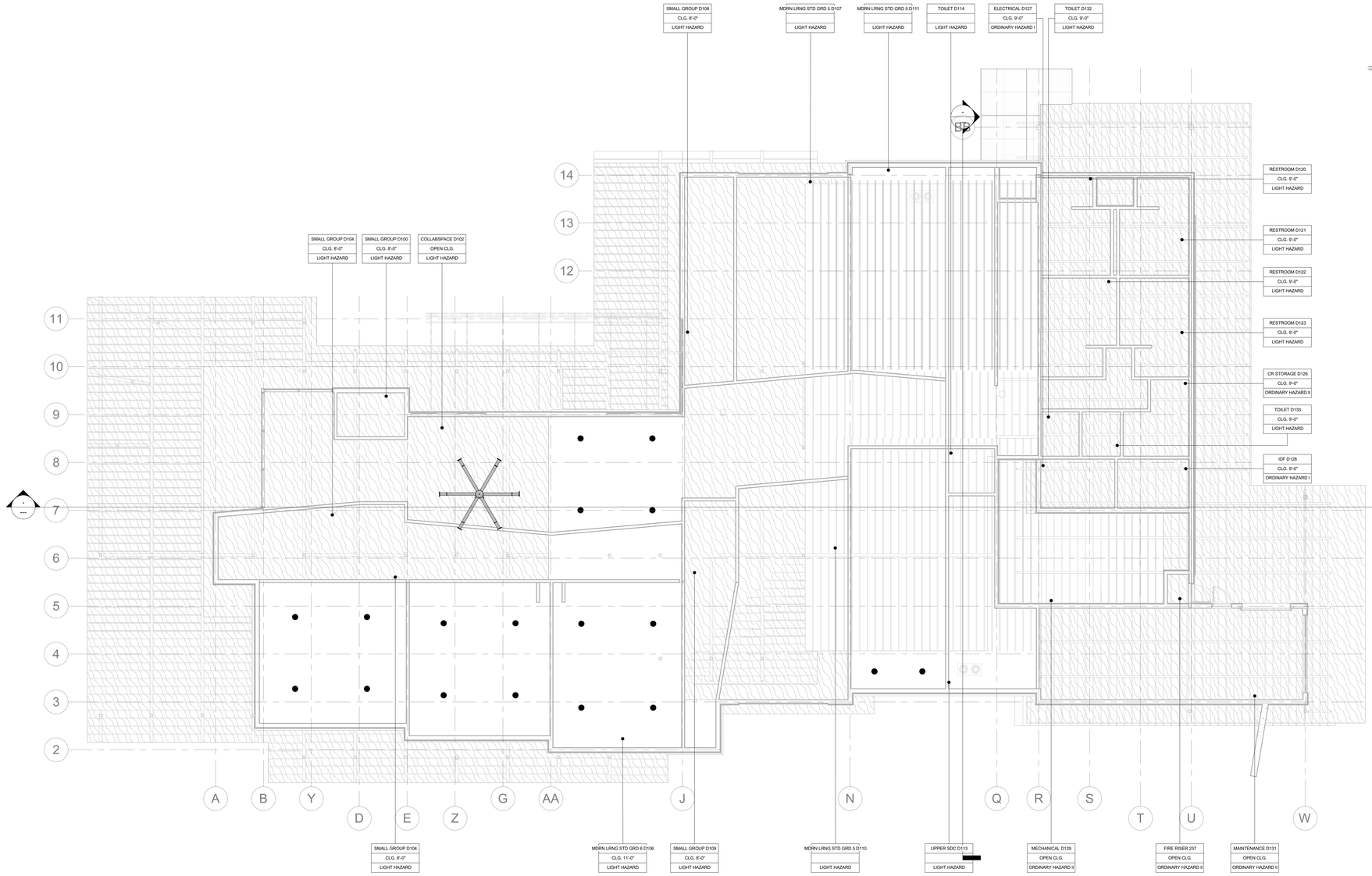
BLDG C SOUTH - PIPING PLAN

NO.	DATE	ISSUE

PROJECT NO: Project Number
DATE: Issue Date

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FP-2.2

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INSTALLATION NOTES:

PIPE TYPES

1. MAIN TO BE BLACK SCHEDULE 10 STEEL PIPE, U.O.N.
2. BRANCH LINES TO BE BLACK SCHEDULE 40 STEEL PIPE, U.O.N.

PIPE SIZES

1. CROSSMAINS TO BE **4"** NOMINAL DIAMETER PIPE, U.O.N.
2. BRANCH LINES TO BE **1 1/2", 1 1/4" & 1"** NOMINAL DIAMETER PIPE, U.O.N.
3. BRANCH LINES TO BE 1" NOMINAL DIAMETER PIPE, U.O.N.

DENOTES FIRESTOP PER — X / FP-4.X

HANGERS

1. HANG LINES & MAINS TO STEEL BEAMS AT ELEVATIONS NOTED PER DETAIL — X / FP-4.X
2. HANG LINES & MAINS TO CONCRETE DECK AT ELEVATIONS NOTED PER DETAIL — X / FP-4.X

DENOTES HANGER LOCATION

3. FURNISH RESTRAINING TYPE HANGERS AT THE ENDS OF ALL BRANCHLINES AND AT EVERY **26** FT ALONG THE LINES

DENOTES LATERAL RESTRAINT — X / FP-4.X

4. SEE SHEET **FP-4.0** FOR DETAILS

MAXIMUM SPACING OF RESTRAINTS (ft)
STEEL PIPE

PROJECT NAME — Cp = XX

	SEISMIC COEFFICIENT (Cp)			
PIPE SIZE	Cp < 0.50	0.5< Cp <0.71	0.71< Cp <1.40	Cp > 1.40
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DENOTES SWAY BRACE — X / FP-4.X

DENOTES 4-WAY SWAY BRACE — X / FP-4.X

HYDRAULIC SYSTEM

This building is protected by a Hydraulically Designed Automatic Sprinkler System

Location

Sprinkler Information

NUMBER OF FLOWING SPRINKLERS	
MANUFACTURE	
MODEL	
K	
ORIFICE	K-FACTOR

Basis of Design

STANDARD	NFPA 13, EDITION
HAZARD GROUP	
DENSITY	GPM/S.F.↑
DESIGNED AREA OF DISCHARGE	S.F.↑

System Demand

GPM DEMAND AT THE BASE OF THE RISER	GPM
RESIDUAL PRESSURE AT THE BASE OF THE RISER	PSI
GPM DEMAND AT THE WATER SUPPLY SOURCE	GPM
RESIDUAL PRESSURE AT THE WATER SUPPLY SOURCE	PSI
SAFETY PRESSURE	PSI
HOSE STREAM ALLOWANCE	GPM INSIDE GPM OUTSIDE GPM TOTAL
REMOTE SPRINKLER FLOW	GPM @ PSI

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fax 619.255.9547

FIRE SPRINKLER LEGEND											SPACING			ESCUTCHEON		COMMENTS	TOTAL
SYM	LOCATION	MFR	MODEL	SIN	SR/QR	K-FAC	TYPE	TEMP	FIN	THRD	MIN	MAX	AREA	TYPE	FIN		
																	000
																	000
																	000
																	000
																	000
																TOTAL THIS SHEET	000

WHERE SUSPENDED CEILING ARE NOT RIGIDLY BRACED PER ASME E580, THE SPRINKLERS TO BE INSTALLED IN THE SUSPENDED PANELS WILL REQUIRE EITHER A 2" CLEARANCE AROUND THE PENETRATION THROUGH THE PANEL, OR THE USE OF A FLEXIBLE DROP FITTING, PER ASCE7-10, SECTION 13.5.6.2.1 THROUGH 13.5.6.3

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BLDG D - PIPING PLAN

NO. DATE ISSUE

PROJECT NO: Project Number
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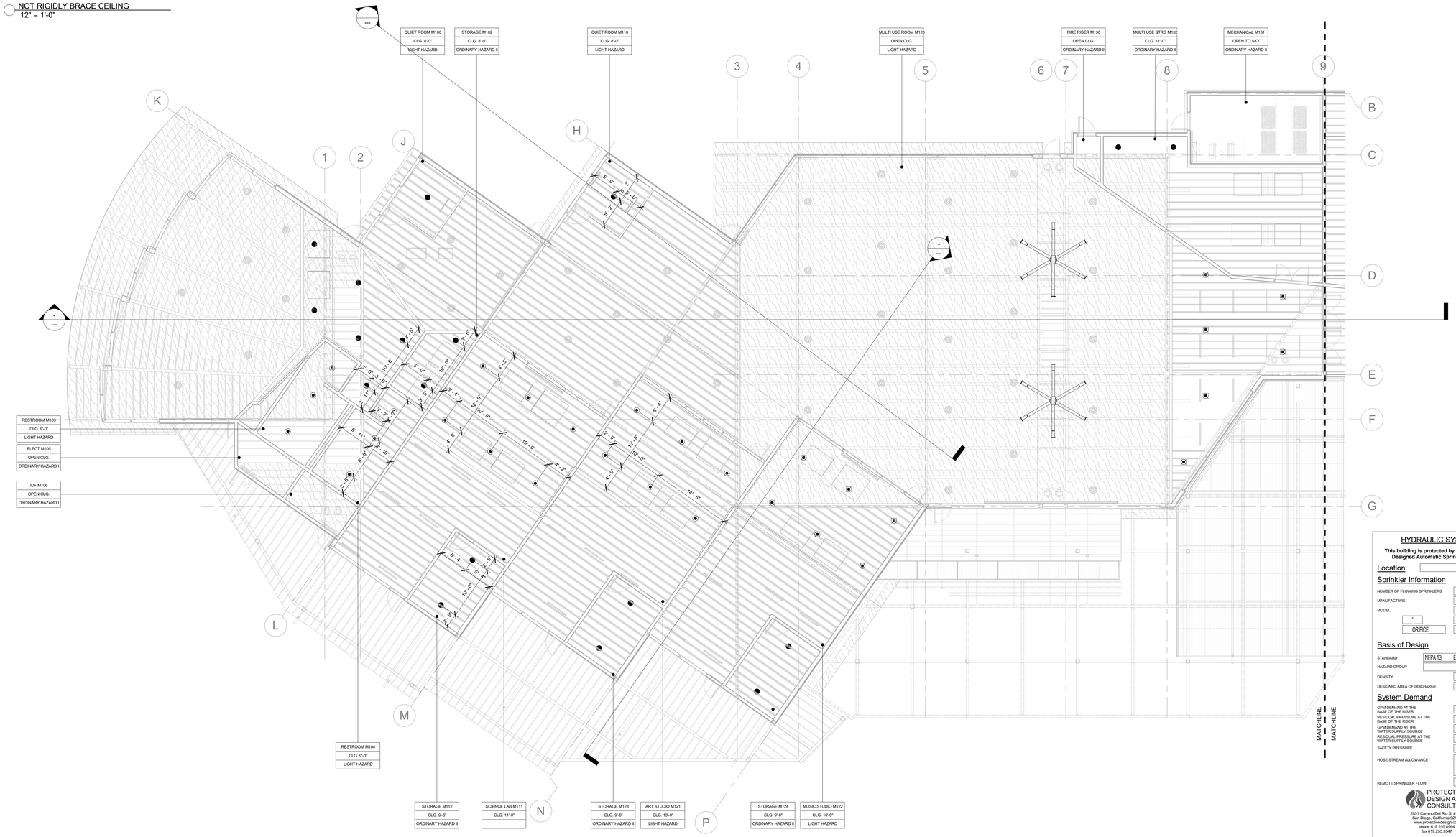
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FP-2.3

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WHERE SUSPENDED CEILING ARE NOT RIGIDLY BRACED PER ASME E580, THE SPRINKLERS TO BE INSTALLED IN THE SUSPENDED PANELS WILL REQUIRE EITHER A 2" CLEARANCE AROUND THE PENETRATION THROUGH THE PANEL, OR THE USE OF A FLEXIBLE DROP FITTING, PER ASCE7-10, SECTION 13.5.6.2.1 THROUGH 13.5.6.3

NOT RIGIDLY BRACE CEILING
12" = 1'-0"



1 PIPING Level 1 WEST
1/8" = 1'-0"

INSTALLATION NOTES:

PIPE TYPES

1. MAIN TO BE BLACK SCHEDULE 10 STEEL PIPE, U.O.N.
2. BRANCH LINES TO BE BLACK SCHEDULE 40 STEEL PIPE, U.O.N.

PIPE SIZES

1. CROSSMAINS TO BE **4"** NOMINAL DIAMETER PIPE, U.O.N.
2. BRANCH LINES TO BE **1 1/2", 1 1/4" & 1"** NOMINAL DIAMETER PIPE, U.O.N.
3. BRANCH LINES TO BE 1" NOMINAL DIAMETER PIPE, U.O.N.

DENOTES FIRESTOP PER X / FP-4.X

HANGERS

1. HANG LINES & MAINS TO STEEL BEAMS AT ELEVATIONS NOTED PER DETAIL — X / FP-4.X
2. HANG LINES & MAINS TO CONCRETE DECK AT ELEVATIONS NOTED PER DETAIL — X / FP-4.X

DENOTES HANGER LOCATION

3. FURNISH RESTRAINING TYPE HANGERS AT THE ENDS OF ALL BRANCHLINES AND AT EVERY **26** FT ALONG THE LINES

DENOTES LATERAL RESTRAINT — X / FP-4.X

4. SEE SHEET **FP-4.0** FOR DETAILS

MAXIMUM SPACING OF RESTRAINTS (ft) STEEL PIPE				
PROJECT NAME				Cp = XX
	SEISMIC COEFFICIENT (Cp)			
PIPE SIZE	Cp < 0.50	0.5< Cp <0.71	0.71< Cp <1.40	Cp > 1.40
1"	43'	36'	26'	22'
1-1/4"	46'	39'	27'	24'
1-1/2"	49'	41'	29'	25'
2"	53'	45'	31'	27'

SWAY BRACING

1. SWAY BRACING SHALL BE PER NFPA 13, 2016 EDITION AND CBC ED. 2016. SEE **FP-4.1** FOR THE DETAILS AND THE CALCULATIONS. WHERE HANGER RODS ARE LESS THAN 6" IN LENGHT, LATERAL SWAY BRACING MY BE OMITTED

DENOTES SWAY BRACE — X / FP-4.X

DENOTES 4-WAY SWAY BRACE — X / FP-4.X

INSTALLATION NOTES HOR.
12" = 1'-0"

FIRE SPRINKLER LEGEND											SPACING			ESCUTCHEON		COMMENTS	TOTAL
SYM	LOCATION	MFR	MODEL	SIN	SR/QR	K-FAC	TYPE	TEMP	FIN	THRD	MIN	MAX	AREA	TYPE	FIN		
																	000
																	000
																	000
																	000
																	000
																TOTAL THIS SHEET	000

2 SHEADCHART FP-2.0
12" = 1'-0"

HYDRAULIC SYSTEM

This building is protected by a Hydraulically Designed Automatic Sprinkler System

Location

Sprinkler Information

NUMBER OF FLOWING SPRINKLERS	
MANUFACTURE	
MODEL	
ORIFICE	K-FACTOR

Basis of Design

STANDARD	NFPA 13, EDITION
HAZARD GROUP	
DENSITY	GPM/SQ F T
DESIGNED AREA OF DISCHARGE	SQ F T

System Demand

GPM DEMAND AT THE BASE OF THE RISER	GPM
RESIDUAL PRESSURE AT THE BASE OF THE RISER	PSI
GPM DEMAND AT THE WATER SUPPLY SOURCE	GPM
RESIDUAL PRESSURE AT THE WATER SUPPLY SOURCE	PSI
SAFETY PRESSURE	PSI
HOSE STREAM ALLOWANCE	GPM INSIDE GPM OUTSIDE GPM TOTAL
REMOTE SPRINKLER FLOW	GPM @ PSI

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Owner
Project Name

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LICENSED ARCHITECT ★ ALFRED F. GESER ★ NO.C30244 ★ EXP. 6-30-17 ★ STATE OF CALIFORNIA

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DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

APPL #

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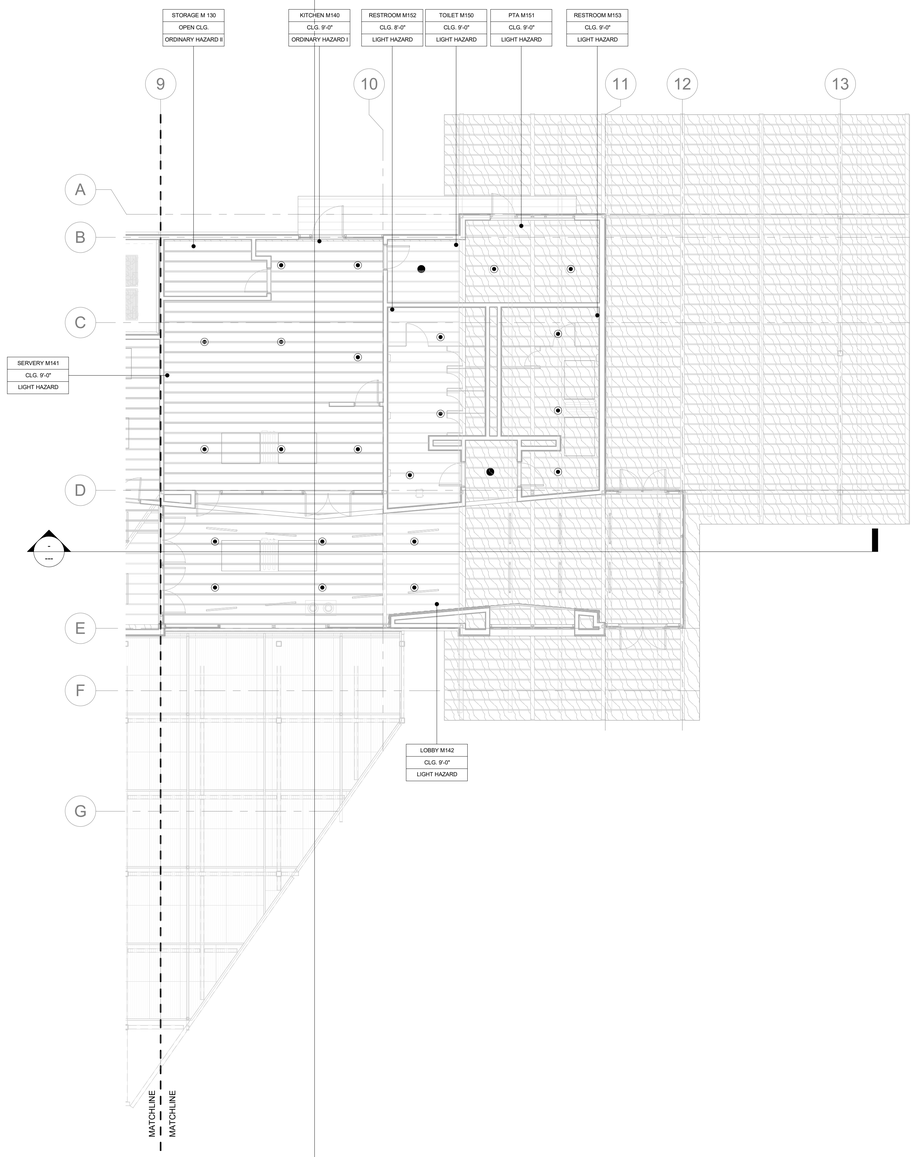
BLDG M WEST - PIPING PLAN

NO.	DATE	ISSUE

PROJECT NO: Project Number
DATE: Issue Date

DRAWING
FP-2.4

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1 PIPING Level 1 EAST
1/8" = 1'-0"

FIRE SPRINKLER LEGEND											SPACING			ESCUTCHEON		COMMENTS	TOTAL
SYM	LOCATION	MFR	MODEL	SIN	SR/QR	K-FAC	TYPE	TEMP	FIN	THRD	MIN	MAX	AREA	TYPE	FIN		
																	000
																	000
																	000
																	000
																	000
																TOTAL THIS SHEET	000

2 SHEADCHART FP-2.1
12" = 1'-0"

WHERE SUSPENDED CEILING ARE NOT RIGIDLY BRACED PER ASME E580, THE SPRINKLERS TO BE INSTALLED IN THE SUSPENDED PANELS WILL REQUIRE EITHER A 2" CLEARANCE AROUND THE PENETRATION THROUGH THE PANEL, OR THE USE OF A FLEXIBLE DROP FITTING, PER ASCE7-10, SECTION 13.5.6.2.1 THROUGH 13.5.6.3

NOT RIGIDLY BRACE CEILING
12" = 1'-0"

INSTALLATION NOTES:

PIPE TYPES

1. MAIN TO BE BLACK SCHEDULE 10 STEEL PIPE, U.O.N.
2. BRANCH LINES TO BE BLACK SCHEDULE 40 STEEL PIPE, U.O.N.

PIPE SIZES

1. CROSSMAINS TO BE **4"** NOMINAL DIAMETER PIPE, U.O.N.
2. BRANCH LINES TO BE **1 1/2", 1 1/4" & 1"** NOMINAL DIAMETER PIPE, U.O.N.
3. BRANCH LINES TO BE 1" NOMINAL DIAMETER PIPE, U.O.N.

DENOTES FIRESTOP PER X / FP-4.X

HANGERS

1. HANG LINES & MAINS TO STEEL BEAMS AT ELEVATIONS NOTED PER DETAIL — X / FP-4.X
2. HANG LINES & MAINS TO CONCRETE DECK AT ELEVATIONS NOTED PER DETAIL — X / FP-4.X

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DENOTES SWAY BRACE — X / FP-4.X

DENOTES 4-WAY SWAY BRACE — X / FP-4.X

INSTALLATION NOTES VERT.
12" = 1'-0"

HYDRAULIC SYSTEM

This building is protected by a Hydraulically Designed Automatic Sprinkler System

Location

Sprinkler Information

NUMBER OF FLOWING SPRINKLERS
MANUFACTURE
MODEL
ORIFICE
K-FACTOR

Basis of Design

STANDARD NFPA 13, EDITION
HAZARD GROUP
DENSITY GPM/S.Q.F.T.
DESIGNED AREA OF DISCHARGE S.Q.F.T.

System Demand

GPM DEMAND AT THE BASE OF THE RISER — GPM
RESIDUAL PRESSURE AT THE BASE OF THE RISER — PSI
GPM DEMAND AT THE WATER SUPPLY SOURCE — GPM
RESIDUAL PRESSURE AT THE WATER SUPPLY SOURCE — PSI
SAFETY PRESSURE — PSI
HOSE STREAM ALLOWANCE — GPM INSIDE, GPM OUTSIDE, GPM TOTAL
REMOTE SPRINKLER FLOW — GPM @ PSI

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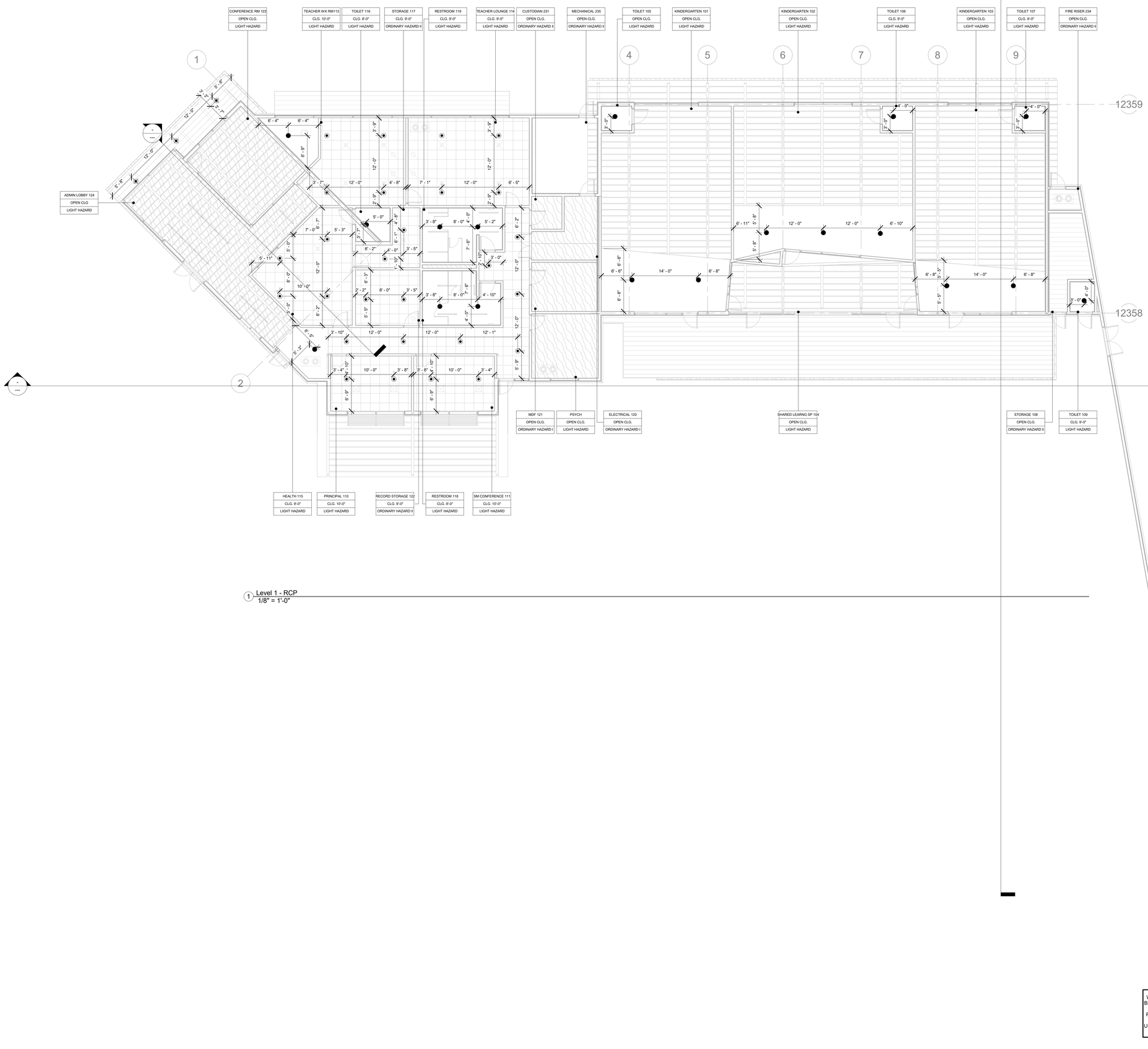
BLDG M EAST - PIPING PLAN

NO. DATE ISSUE

PROJECT NO: Project Number
DATE: Issue Date

DRAWING
FP-2.5

12/10/2019 5:25:36 PM G:\Work In Progress\2019\19-55 Del Mar Heights School\IFRE\2019-11-14\REVIT\FPS-PDC-DMSH-BLDG M.rvt



1 Level 1 - RCP
1/8" = 1'-0"

WHERE SUSPENDED CEILING ARE NOT RIGIDLY BRACED PER ASME E580, THE SPRINKLERS TO BE INSTALLED IN THE SUSPENDED PANELS WILL REQUIRE EITHER A 2' CLEARANCE AROUND THE PENETRATION THROUGH THE PANEL, OR THE USE OF A FLEXIBLE DROP FITTING, PER ASCE7-10, SECTION 13.5.6.2.1 THROUGH 13.5.6.3

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APPL #

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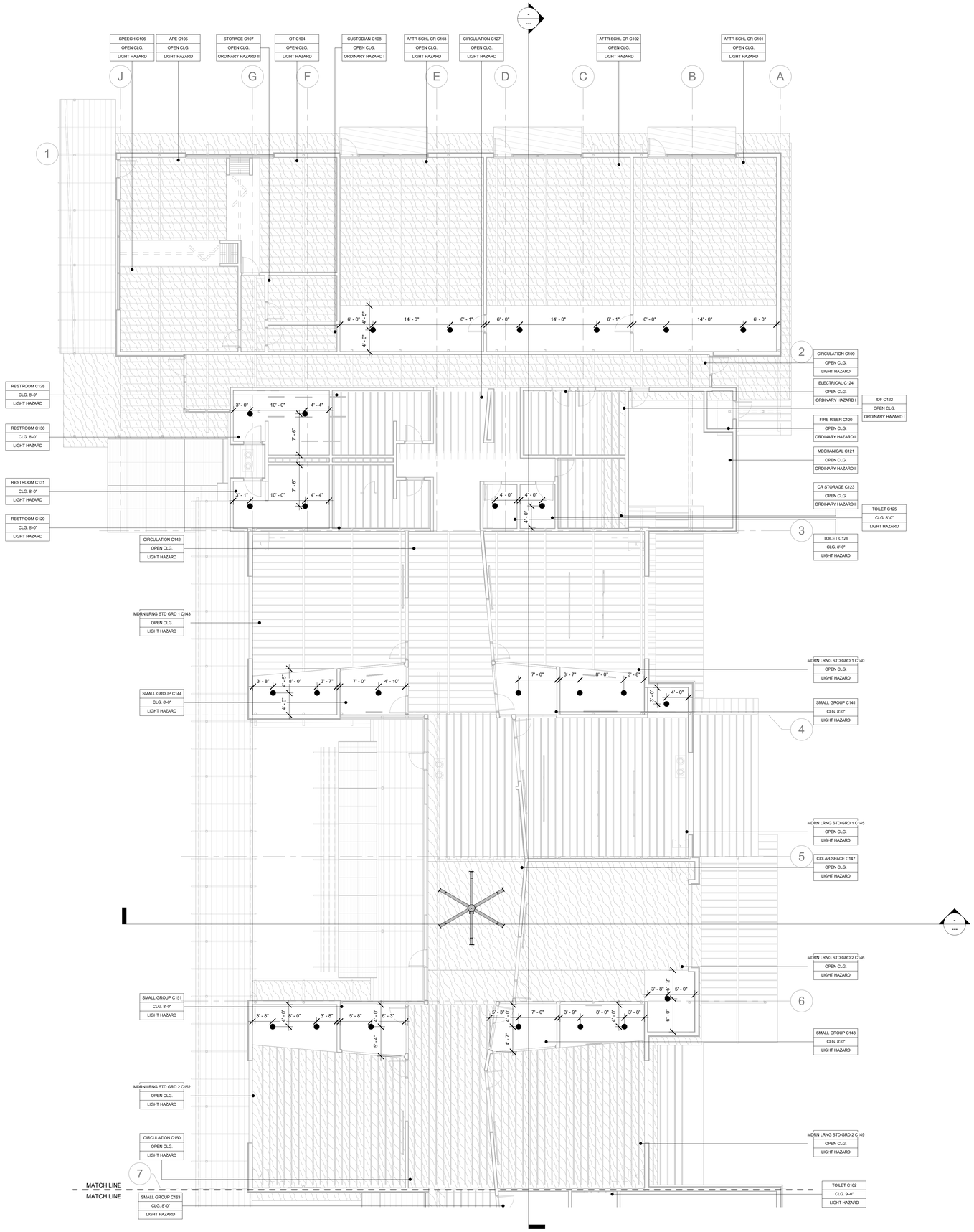
BLDG. A - REFLECTED CEILING PLAN

NO.	DATE	ISSUE

PROJECT NO:
DATE: Issue Date

DRAWING
FP-3.0

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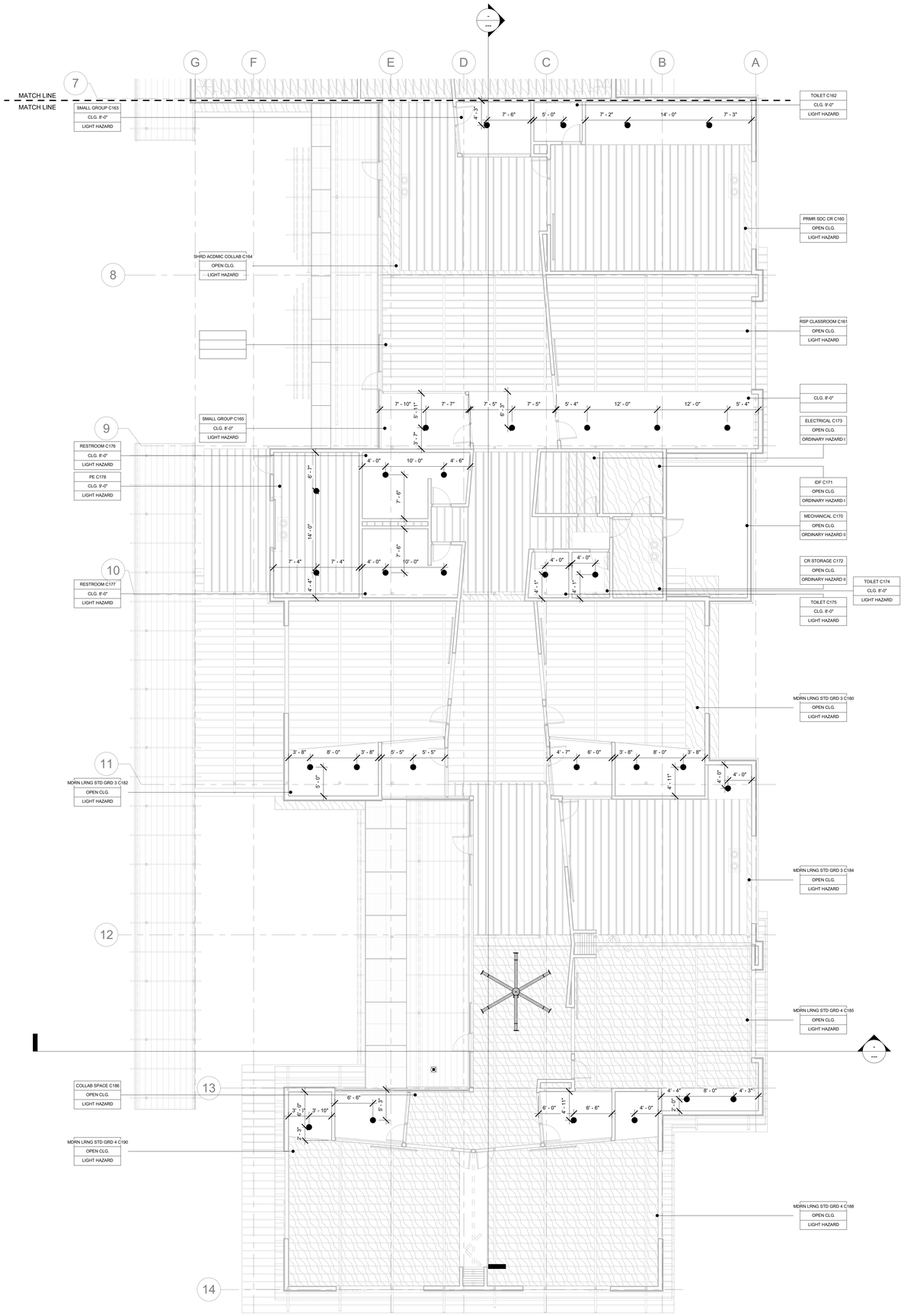
DATE:

BLDG C NORTH - REFLECTED CEILING PLAN

NO.	DATE	ISSUE

PROJECT NO: Project Number
DATE: Issue Date

DRAWING
FP-3.1



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EXP. 6-30-19
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BLDG C SOUTH - REFLECTED CEILING PLAN

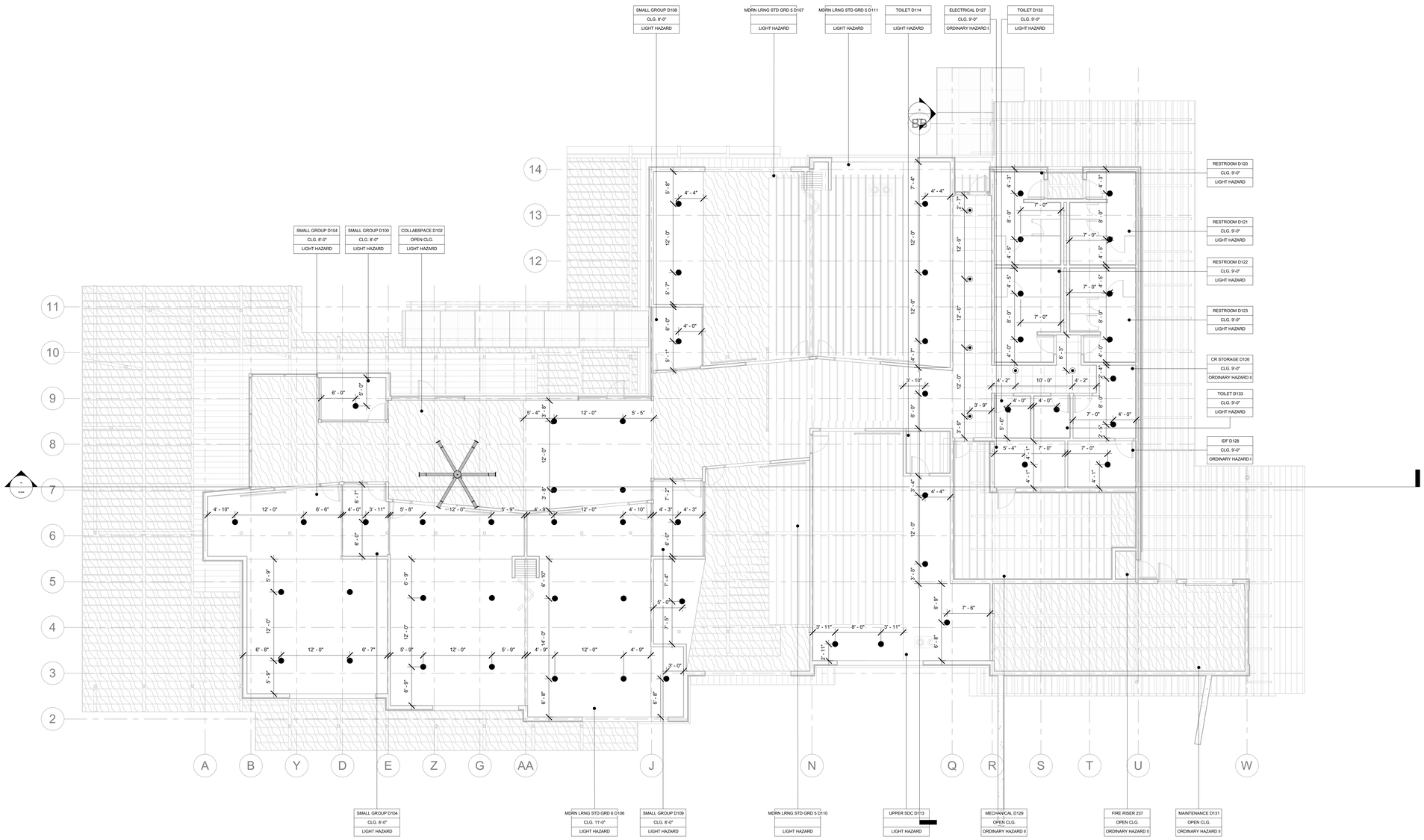
NO. DATE ISSUE

PROJECT NO: Project Number
DATE: Issue Date

DRAWING
FP-3.2

WHERE SUSPENDED CEILING ARE NOT RIGIDLY BRACED PER ASME E580, THE SPRINKLERS TO BE INSTALLED IN THE SUSPENDED PANELS WILL REQUIRE EITHER A 2" CLEARANCE AROUND THE PENETRATION THROUGH THE PANEL, OR THE USE OF A FLEXIBLE DROP FITTING, PER ASCE7-10, SECTION 13.5.6.2.1 THROUGH 13.5.6.3

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1 BLDG D LVL 1
1/8" = 1'-0"

WHERE SUSPENDED CEILING ARE NOT RIGIDLY BRACED PER ASME E580, THE SPRINKLERS TO BE INSTALLED IN THE SUSPENDED PANELS WILL REQUIRE EITHER A 2" CLEARANCE AROUND THE PENETRATION THROUGH THE PANEL, OR THE USE OF A FLEXIBLE DROP FITTING, PER ASCE7-10, SECTION 13.5.6.2.1 THROUGH 13.5.6.3

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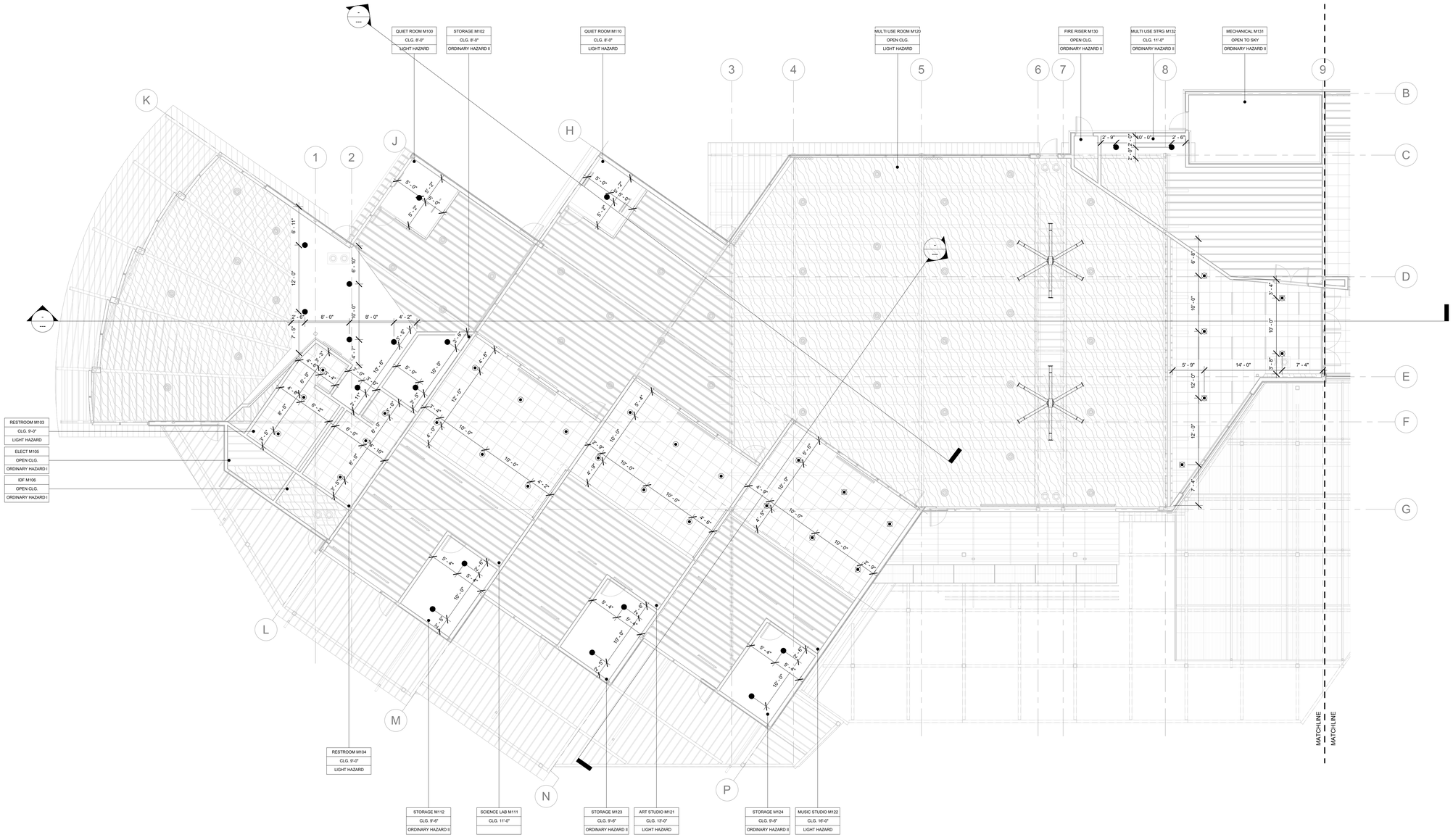
DATE:

BLDG. D - REFLECTED CEILING PLAN

NO.	DATE	ISSUE

PROJECT NO: Project Number
DATE: Issue Date

DRAWING
FP-3.3



1 HOR
1/8" = 1'-0"

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NOT RIGIDLY BRACE CEILING
12" = 1'-0"

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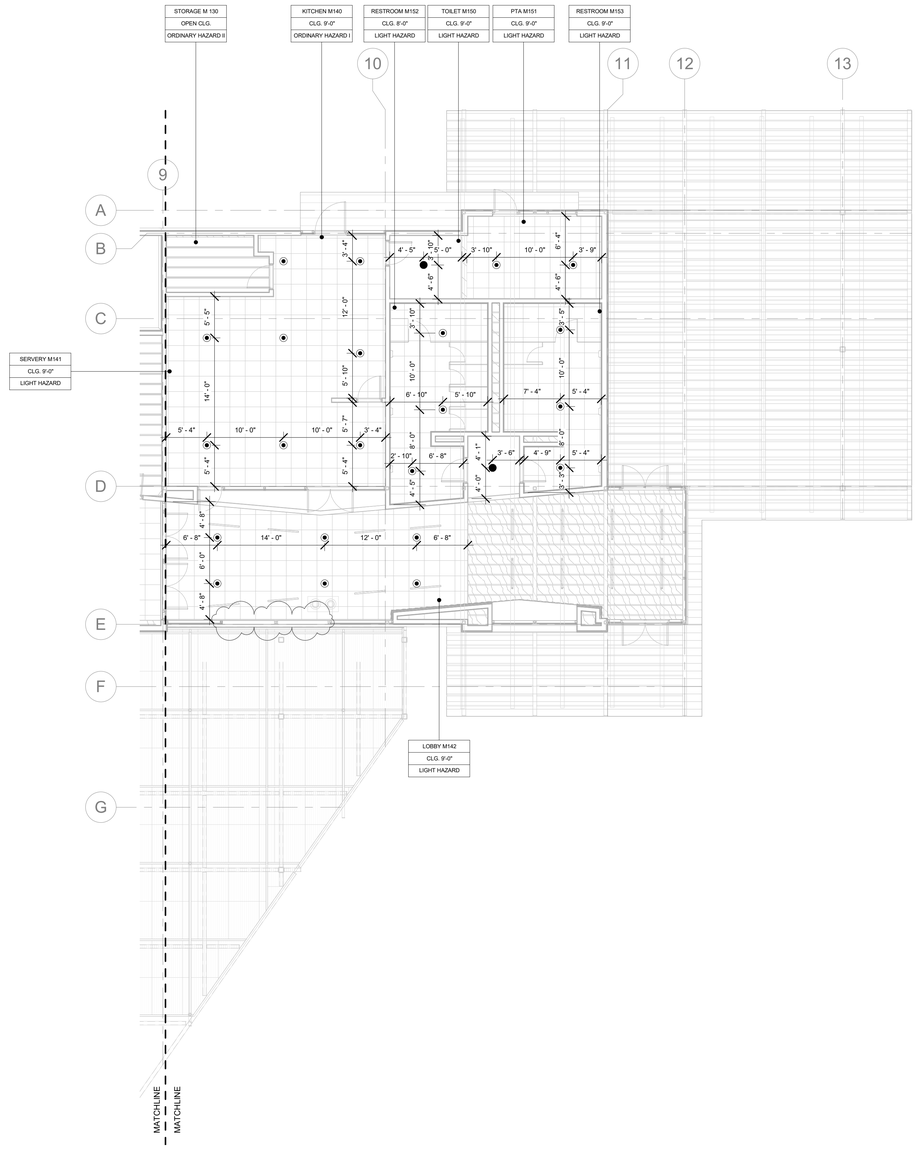
DATE:

BLDG M WEST - REFLECTED CEILING PLAN

NO.	DATE	ISSUE

PROJECT NO: Project Number
DATE: Issue Date

DRAWING
FP-3.4



1 RCP Level 1 EAST
1/8" = 1'-0"

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DATE:

BLDG M EAST - REFLECTED CEILING PLAN

NO.	DATE	ISSUE
1	Date 1	Revision 1

PROJECT NO: Project Number
DATE: Issue Date

DRAWING
FP-3.5

ABBREVIATIONS

A	AMPERE (AMPS)
AC	ALTERNATING CURRENT
AF	AMPS-FRAME (RATING)
AIC	AMP INTERRUPTING CURRENT
AM	AMMETER
AS	AMP SWITCH (FUSED SWITCH RATING)
AT	AMPS-TRIP (RATING)
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CO	CONDUIT ONLY
CT	CURRENT TRANSFORMER
CU	COPPER
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DWG	DRAWING
EX	EXISTING
FLA	FULL LOAD AMPS
FVR	FULL VOLTAGE REVERSING
FVNR	FULL VOLTAGE NON-REVERSING
GFI	GROUND FAULT INTERRUPTER
GRD/GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HZ	HERTZ
KW	KILOWATT
LCL	LONG CONTINUOUS LOAD
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
MCC	MOTOR CONTROL CENTER
MCM (KCM)	THOUSAND CIRCULAR MILS
MECH	MECHANICAL
NC	NORMALLY CLOSED
NF	NON-FUSED
NO	NORMALLY OPEN/NUMBER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
P	POLE
PH	PHASE
POC	POINT OF CONNECTION
PRS	PVC COATED RIGID STEEL (CONDUIT)
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE DUCT
SWBD	SWITCHBOARD
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLTAMPERES
VM	VOLTMETER
VL	VERIFY LOCATION
W	WIRE/WATTS
WP	WEATHERPROOF (NEMA TYPE 3R)
WT	WATERTIGHT
XP	EXPLOSION PROOF (RATED FOR AREA HAZARD)

ELECTRICAL SYMBOL LEGEND

LIGHTING

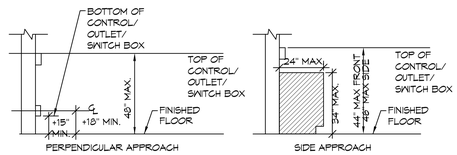
- (A) — LIGHTING FIXTURE DESIGNATION
- LIGHTING FIXTURE, CEILING OR WALL MOUNTED AS SHOWN.
- LED LIGHT FIXTURE
- LIGHTING FIXTURE ON EMERGENCY CIRCUIT (LIFE SAFETY BRANCH OR BATTERY PACK).
- EXIT SIGN WITH DIRECTION ARROWS AS INDICATED. SHADED QUADRANT INDICATES FACE.
- b b — EMERGENCY LIGHTING UNIT. WALL MOUNTED 12" BELOW CEILING (U.O.N.) LETTER INDICATES CIRCUIT CONTROLLED. SEE DETAIL 1/E2.9
- LED STRIP LIGHT
- Sa — SINGLE POLE SWITCH, SUBSCRIPT WHEN SHOWN INDICATES FIXTURES CONTROLLED +48" A.F.F. (U.O.N.) HEIGHT PER DETAILS #1/E1.0.
- S3 — THREE-WAY SWITCH +48" A.F.F. (U.O.N.) HEIGHT PER DETAILS #1/E1.0
- S4 — FOUR-WAY SWITCH +48" A.F.F. (U.O.N.) HEIGHT PER DETAILS #1/E1.0
- SP — SWITCH WITH PILOT LIGHT +48" A.F.F. (U.O.N.) HEIGHT PER DETAILS #1/E1.0
- S2 — DOUBLE POLE SWITCH +48" A.F.F. (U.O.N.) HEIGHT PER DETAILS #1/E1.0
- SWP — WEATHER PROOF SWITCH +48" A.F.F. (U.O.N.) HEIGHT PER DETAILS #1/E1.0
- SK — KEY OPERATED SWITCH +48" A.F.F. (U.O.N.) HEIGHT PER DETAILS #1/E1.0
- SURFACE MOUNTED TRACK LIGHTING FIXTURES
- EXTERIOR SITE LIGHTING FIXTURE AND POLE
- EXTERIOR DECORATIVE SITE LIGHTING FIXTURE AND POLE
- LANDSCAPE LIGHTING FIXTURE
- SPORTSLIGHTING FIXTURES AND POLES
- WALL MOUNTED OCCUPANCY SENSOR LIGHTING CONTROL +48" A.F.F. (U.O.N.) HEIGHT PER DETAILS #1/E1.0
- CEILING MOUNTED (CORNER OF THE ROOM) OCCUPANCY SENSOR LIGHTING CONTROL
- CEILING MOUNTED OCCUPANCY SENSOR LIGHTING CONTROL
- S LV — LOW VOLTAGE LIGHT SWITCH. HEIGHT PER DETAILS #1/E1.0
- DIGITAL LIGHTING CONTROL TYPICAL ROOM REQUIREMENTS. 1/E2.12 1/E2.11
- NUMBERED DEVICES ARE ADDITIONAL ITEMS SHOWN ON FLOOR PLAN IN ADDITION TO WHAT IS REQUIRED FOR THE TYPICAL ROOM REQUIREMENTS.

DISTRIBUTION EQUIPMENT

- DRAW OUT TYPE EQUIPMENT
- VACUUM CIRCUIT BREAKER, RATING AS NOTED.
- AIR INTERRUPTER SWITCH AND FUSE
- AIR INTERRUPTER
- FUSE
- POWER TRANSFORMER, RATING AS NOTED
- POWER CIRCUIT BREAKER DRAWOUT
- AUTOMATIC TRANSFER SWITCH. SEE SCHEDULE
- (A) — AMMETER
- (V) — VOLTMETER
- CIRCUIT BREAKER
  - 200AF — 200AMP FRAME
  - 200AT — 200AMP TRIP
  - 3P — 3 POLE
  - 10,000AIC — 10,000 AMPS INTERRUPTING CURRENT
- FUSED SWITCH
  - 200AS — 200AMP SWITCH
  - 200AF — 200AMP FUSE
  - 3P — 3 POLE
- (M) — UTILITY COMPANY METER

POWER CONTINUED

- DUPLEX RECEPTACLE, FLOOR MOUNTED
- DUPLEX RECEPTACLE, WALL MOUNTED, +18" A.F.F. (U.O.N.)
- HORZ — RECEPTACLE, WALL MOUNTED HORIZONTALLY, +18" A.F.F. (U.O.N.)
- FOURPLEX RECEPTACLE, WALL MOUNTED, +18" A.F.F. (U.O.N.)
- RECEPTACLE MOUNTED +6" ABOVE COUNTER BACKSPLASH SEE ARCHITECTURAL PLANS FOR REQUIRED MOUNTING HEIGHT PRIOR TO ROUGH-IN.
- LCD — PROVIDE (2) DUPLEX RECEPTACLE CEILING MOUNTED LOCATE ADJACENT TO PROJECTOR. FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
- SINGLE RECEPTACLE, WALL MOUNTED +18" A.F.F. (U.O.N.)
- C — SINGLE RECEPTACLE (CLOCK HANGER TYPE) WALL MOUNTED +7'-0" A.F.F. (U.O.N.)
- SWITCH CONTROLLED DUPLEX RECEPTACLE +18" U.O.N.
- a — CONTROLLED FOURPLEX RECEPTACLE +18" U.O.N. (1) DUPLEX, (1) HALF HOT CONTROLLED DUPLEX. SEE LIGHTING CONTROL DIAGRAMS FOR FURTHER INFO.
- GFI — DUPLEX GROUND FAULT INTERRUPTING RECEPTACLE +18" A.F.F. (U.O.N.)
- DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT +18" A.F.F. (U.O.N.)
- WP — DUPLEX RECEPTACLE IN WEATHERPROOF ENCLOSURE +18" A.F.F. (U.O.N.)
- WP/L — DUPLEX RECEPTACLE IN WEATHERPROOF "LOCKING" ENCLOSURE +18" A.F.F. (U.O.N.) (SEE TYPICAL DETAILS E3 SERIES SHEETS AND SPECIFICATIONS FOR REQUIRED TYPE).
- 1G — DUPLEX RECEPTACLE (ORANGE) ISOLATED GROUND WALL MOUNTED +18" A.F.F. (U.O.N.)
- 1G — FOURPLEX RECEPTACLE (ORANGE) ISOLATED GROUND WALL MOUNTED +18" A.F.F. (U.O.N.)
- TP — DUPLEX RECEPTACLE SAFETY TYPE / TAMPER PROOF WALL MOUNTED +18" A.F.F. (U.O.N.)
- DUPLEX COMPUTER RECEPTACLE (GREY), WALL MOUNTED +18" A.F.F. (U.O.N.)
- DUPLEX COMPUTER RECEPTACLE (BLUE) ISOLATED GROUND, SURGE SUPPRESSION, WALL MOUNTED +18" A.F.F. (U.O.N.)
- A — SINGLE RECEPTACLE 30 AMP, 250V, 4W, GROUNDING, WALL MOUNTED +18" A.F.F. (U.O.N.). FIELD VERIFY EXACT OUTLET CONFIGURATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
- B — SINGLE RECEPTACLE 50 AMP, 250V, 4W, GROUNDING, WALL MOUNTED +18" A.F.F. (U.O.N.). FIELD VERIFY EXACT OUTLET CONFIGURATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
- C — SINGLE RECEPTACLE 50 AMP, 250V, 3W, GROUNDING, WALL MOUNTED +18" A.F.F. (U.O.N.). FIELD VERIFY EXACT OUTLET CONFIGURATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
- E — SINGLE RECEPTACLE 30 AMP, 125V, 3W, GROUNDING, WALL MOUNTED +18" A.F.F. (U.O.N.). FIELD VERIFY EXACT OUTLET CONFIGURATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
- F — SINGLE RECEPTACLE 30 AMP, 250V, 3W, GROUNDING, WALL MOUNTED +18" A.F.F. (U.O.N.). FIELD VERIFY EXACT OUTLET CONFIGURATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
- G — SINGLE RECEPTACLE 30 AMP, 250V, 5W, GROUNDING, WALL MOUNTED +18" A.F.F. (U.O.N.). FIELD VERIFY EXACT OUTLET CONFIGURATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
- H — SINGLE RECEPTACLE 30 AMP, 480V, 5W, GROUNDING, WALL MOUNTED +18" A.F.F. (U.O.N.). FIELD VERIFY EXACT OUTLET CONFIGURATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
- J — SINGLE RECEPTACLE 20 AMP, 250V, 5W, GROUNDING, WALL MOUNTED +18" A.F.F. (U.O.N.). FIELD VERIFY EXACT OUTLET CONFIGURATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
- K — SPECIAL PURPOSES KITCHEN EQUIPMENT RECEPTACLE. SEE KITCHEN PLANS FOR EXACT TYPE. FIELD VERIFY EXACT OUTLET CONFIGURATION WITH EQUIPMENT SUPPLIER PRIOR TO ORDERING. SEE KITCHEN PLANS FOR EXACT MOUNTING HEIGHT.
- FP — DUPLEX RECEPTACLE, WALL MOUNTED ADJACENT TO FLAT PANEL OUTLET, SEE SIGNAL PLAN FOR EXACT LOCATION.
- MULTI-OUTLET ASSEMBLY, "WIREMOLD" G-3000 SERIES WITH 20AMP DUPLEX RECEPTACLES ON 18" CENTERS, RECEPTACLES TO BE ALTERNATELY WIRED AND INSULATED GROUNDING CONDUCTOR PROVIDED TO EACH
- (J) — JUNCTION BOX, FLOOR MOUNTED
- (J) (J) — JUNCTION BOX, CEILING OR WALL MOUNTED
- HD — HAND DRYER CONNECTION, SEE ARCHITECTURAL FOR MOUTNING HEIGHT.
- FUSED DISCONNECT SWITCH, WHERE SHOWN NF = NON-FUSED.
- 5 M — MANUAL MOTOR STARTER +48" A.F.F. OR ON EQUIPMENT (U.O.N.)
- (1) — MOTOR CONNECTION, NUMERAL INDICATES HORSEPOWER.
- AC 1 — MECHANICAL EQUIPMENT TAG (SEE MECHANICAL DRAWINGS FOR DESCRIPTION)
- CONDUIT AND WIRE, CONCEALED IN CEILING OR WALL
- CONDUIT AND WIRE, CONCEALED IN OR UNDER FINISHED FLOOR OR UNDER FINISHED GRADE.
- FLEXIBLE CONDUIT CONNECTION
- BRANCH CIRCUIT HOMERUN TO PANEL. SLASHES INDICATE NUMBER OF CONDUCTORS. EQUIPMENT GROUND WIRE NOT INDICATED U.O.N. #12 CONDUCTORS ARE MINIMUM, NO HASH MARKS = MIN (2) #12
- 3/4" CONDUIT STUBBED FROM DEVICE TO ABOVE ACCESSIBLE CEILING
- #8 — BRANCH CIRCUIT HOMERUN, NUMBER INDICATES INCREASED CONDUCTOR SIZE, CONDUCTORS SHALL REMAIN AS INDICATED FOR SIZE THROUGHOUT THE ENTIRE CIRCUIT.
- PANELBOARD, SURFACE MOUNTED.
- PANELBOARD, RECESSED
- T — STEP-DOWN TRANSFORMER
- DISTRIBUTION SWITCHBOARD
- SR — SURFACE MOUNTED RACEWAY SINGLE SECTION SERIES, NON METALLIC (WHITE)
- SR 2 — SURFACE MOUNTED RACEWAY TWO SECTION SERIES, NON METALLIC (WHITE)
- SR 3 — SURFACE MOUNTED RACEWAY THREE SECTION SERIES, NON METALLIC (WHITE)



NOTE: MAINTAIN MINIMUM 30"X48" CLEAR FLOOR SPACE AT EACH APPROACH.

MOUNTING HEIGHT OVER OBSTRUCTION 1/E1.0

NO SCALE

GENERAL PROJECT NOTES:

1. UNLESS WHERE OTHERWISE NOTED, ALL WORK INDICATED ON THESE DRAWINGS SHALL BE CONSIDERED NEW WORK.
2. UNLESS WHERE OTHERWISE NOTED, ALL DIMENSIONS ARE TO BE CENTERLINE OF THE DEVICE.
3. "GENERAL NOTES" SHOWN ON AN INDIVIDUAL DRAWING APPLY TO ALL WORK SHOWN ON THAT SHEET. "KEY NOTES" ONLY APPLY TO SPECIFIC ITEMS WHERE ANNOTATED AT SPECIFIC LOCATIONS. SOME KEY NOTES MAY NOT APPLY TO ANY SPECIFIC ITEMS.
4. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT.

GENERAL DEMOLITION NOTES:

1. ALL ELECTRICAL EQUIPMENT, EXPOSED RACEWAY AND CONDUIT, OUTLET BOXES AND RINGS, AND DEVICES ARE TO BE REMOVED, EXCEPT WHERE SHOWN TO REMAIN. EXISTING WIRING, WHETHER EXPOSED, IN CONDUIT OR RACEWAY IS TO BE REMOVED TO THE GREATEST EXTENT POSSIBLE.
2. THE ELECTRICAL CONTRACTOR IS TO DIRECT THE REMOVAL OF THE ABOVE LISTED WORK.

MEP COMPONENT ANCHORAGE NOTE:

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24 AND 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E):

MP☐MD☐PP☐E☒ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐MD☐PP☐E☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM#) #

MP☐MD☐PP☐ - OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA, FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPACIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL _____ AND CONNECTION LEVEL _____ FOR THE PROJECT AND CONDITIONS.

FIRE RATED ASSEMBLIES NOTE:

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DESCRIPTION AND DETAIL OF ALL FIRE RATED ASSEMBLIES.

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

REGISTERED PROFESSIONAL ENGINEER — MARK STEPHEN GOESE-HANSEN — NO.E 14781 — Exp. 6-30-2021 — ELECTRICAL — STATE OF CALIFORNIA

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Communications | Data Networking
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BakerNowicki design studio
731 Ninth Avenue, Suite A, San Diego, California 92101
619.795.2450
www.bndesignstudio.com

ELECTRICAL SYMBOLS, ABBREVIATIONS, AND NOTES

NO.	DATE	ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E1.0

BIM 360://19009-00 Del Mar Heights ES/ELEC-JCE-DMHS.rvt
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1 UTILITY SITE PLAN
1" = 30'-0"

BM 360://19009-00 Del Mar Heights ES/ELEC-ICE-DMHS.rvt

2/14/2020 6:28:53 PM

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

REGISTERED PROFESSIONAL ENGINEER
MONICA COESE-HANSEN
NO.E 14781
Exp. 6-30-2021
ELECTRICAL
STATE OF CALIFORNIA

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UTILITY SITE PLAN

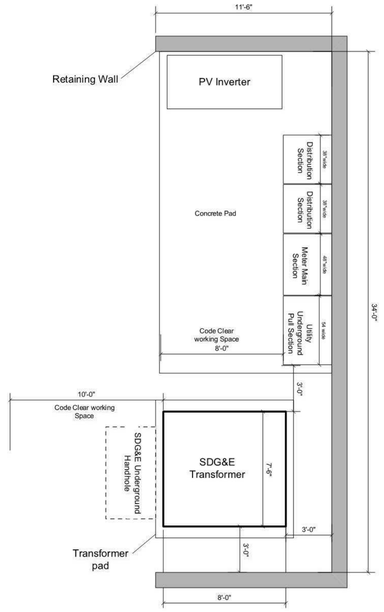
NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E1.1



1 OVERALL SITE PLAN
1" = 30'-0"



2 SITE ELECTRICAL SERVICE
E1.1 1/4" = 1'-0"

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

GENERAL NOTES:
1. FURNISH AND INSTALL ALL UTILITY CO. SERVICES TO THE SITE TO COMPLY WITH LOCAL UTILITY CO. REQUIREMENTS. VERIFY ALL REQUIREMENTS PRIOR TO INSTALLATION.

KEY NOTES:
(1) PROVIDE 2"C. WITH PULL STRING TO SWITCHBOARD 'DSHA' FOR FUTURE ELECTRIC VEHICLE CHARGING STATION. STUB CONDUIT, PROVIDE CAP AND MARKER ON PAVEMENT AT THE INDICATED STUB

REGISTERED PROFESSIONAL ENGINEER
MICHAEL JOSEPH GRESE-HADLEY
NO.E 14781
Exp. 6-30-2021
ELECTRICAL
STATE OF CALIFORNIA
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OVERALL SITE PLAN

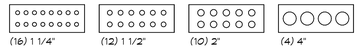
NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

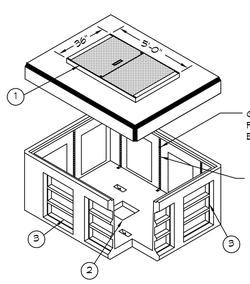
DRAWING
E1.2

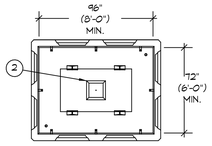
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(STANDARD CONDUIT TERMINATORS)

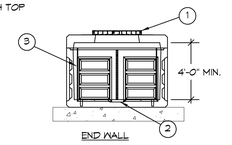


CONTRACTOR SHALL PROVIDE MANUFACTURED CONDUIT TERMINATORS WHERE CONDUITS ENTER HANDHOLE KNOCKOUTS OR SHALL PROVIDE CONDUITS BELL ENDS AND SEAL BACK ALL VOID OPENINGS AROUND KNOCKOUT.

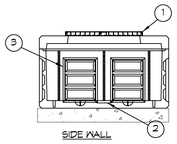




PLAN



END WALL



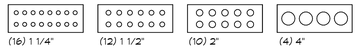
SIDE WALL

"OLDCASTLE" - GREENLINE 6'-0" X 8'-0" X 48" SERIES.

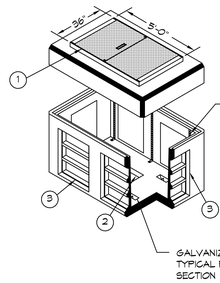
KEY NOTES:

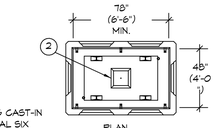
1. H-20 RATED DUAL LEAF TORSION HINGED STEEL COVER.
2. SUMP (FIELD KNOCKOUT BOTTOM) AND FILL WITH GRAVEL TO DRAIN.
3. 26"W X 34"HIGH SEGMENTED KNOCKOUT.

(STANDARD CONDUIT TERMINATORS)

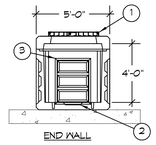


CONTRACTOR SHALL PROVIDE MANUFACTURED CONDUIT TERMINATORS WHERE CONDUITS ENTER HANDHOLE KNOCKOUTS OR SHALL PROVIDE CONDUITS BELL ENDS AND SEAL BACK ALL VOID OPENINGS AROUND KNOCKOUT.

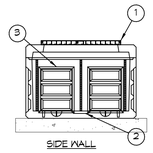




PLAN



END WALL

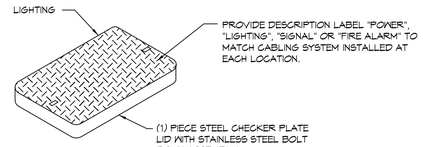


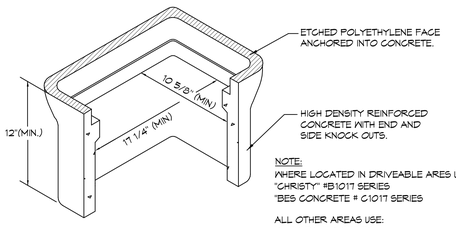
SIDE WALL

"OLDCASTLE" - GREENLINE 4'-0" X 6'-6" X 48" SERIES.

KEY NOTES:

1. H-20 RATED DUAL LEAF TORSION HINGED STEEL COVER.
2. 12" X 12" SUMP (FIELD KNOCKOUT BOTTOM) AND FILL WITH GRAVEL TO DRAIN.
3. 26"W X 34"HIGH SEGMENTED KNOCKOUT.





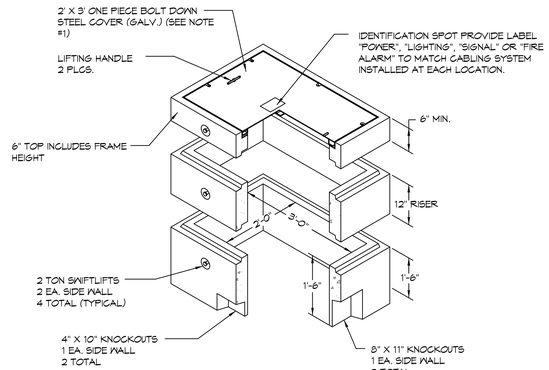
NOTE:
WHERE LOCATED IN DRIVEABLE ARES USE:
"CHRISTY" #B1017 SERIES
"BES CONCRETE # C1017 SERIES

ALL OTHER AREAS USE:
"CHRISTY" #N9 SERIES
"BES CONCRETE" # C4E SERIES

UNDERGROUND PULLBOX STYLE 'A'

NO SCALE

1 / E1.3



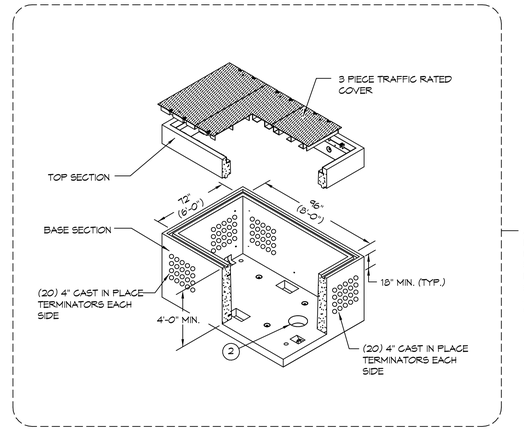
"OLDCASTLE" - 3313 SERIES.
"SAN DIEGO PRECAST" - 3313 SERIES
"JENSEN PRECAST" - 2436 SERIES

NOTE:
PROVIDE "HS 20-44 TRAFFIC RATED" COVER WITH LABEL INDICATING TRAFFIC RATING WHEN HANDHOLE IS LOCATED IN DRIVEABLE AREA ALL OTHER "AREA SHALL BE PARKWAY RATED"

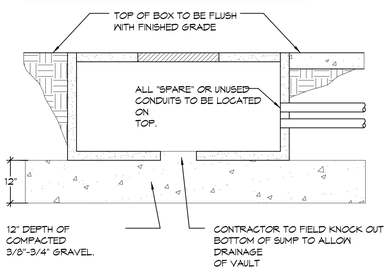
UNDERGROUND PULLBOX STYLE 'B'

NO SCALE

2 / E1.3



GENERAL INSTALLATION REQUIREMENTS:

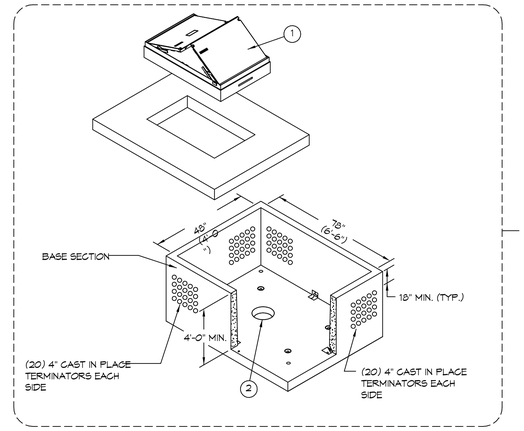


1. HANDHOLES SHALL BE PROVIDE WITH A MINIMUM OF (4) GALVANIZED PULLING PLATES IN BOTTOM OF PULLBOX.
2. PULLBOXES SHALL BE PROVIDED WITH CAST IN PLACE VERTICAL CABLE RACKS. ALL CABLES SHALL BE NEATLY BUNDLED, ORGANIZED AND SUPPORTED BY CABLE RACKS.
3. WHERE ADDITIONAL CONDUIT ENTRIES ARE REQUIRED BEYOND QUANTITY OF TERMINATORS SHOWN, CONTRACTOR SHALL FIELD CORE DRILL AS REQUIRED. WHERE 4" TERMINATORS ARE PROVIDED CONTRACTOR SHALL PROVIDE CONDUIT REDUCERS TO MATCH SITE CONDUIT SIZE REQUIREMENTS.
4. FOR ALTERNATE STYLE PULLBOXES CONTRACTOR SHALL FIELD CORE DRILL ALL CONDUIT ENTRIES 2" DIA AND SMALLER.

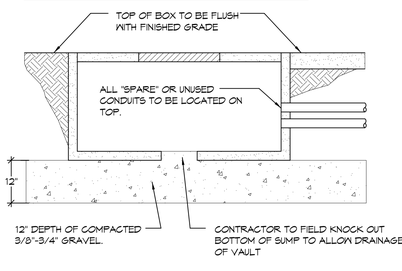
UNDERGROUND PULLBOX STYLE 'D' TYP. INSTALLATION

NO SCALE

5 / E1.3



GENERAL INSTALLATION REQUIREMENTS:

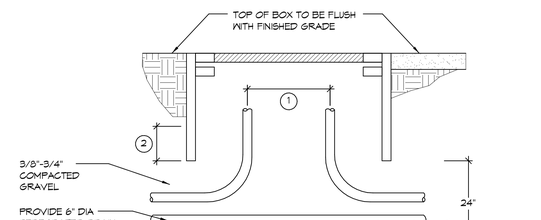


1. HANDHOLES SHALL BE PROVIDE WITH A MINIMUM OF (4) GALVANIZED PULLING PLATES IN BOTTOM OF PULLBOX.
2. PULLBOXES SHALL BE PROVIDED WITH CAST IN PLACE VERTICAL CABLE RACKS. ALL CABLES SHALL BE NEATLY BUNDLED, ORGANIZED AND SUPPORTED BY CABLE RACKS.
3. WHERE ADDITIONAL CONDUIT ENTRIES ARE REQUIRED BEYOND QUANTITY OF TERMINATORS SHOWN, CONTRACTOR SHALL FIELD CORE DRILL AS REQUIRED. WHERE 4" TERMINATORS ARE PROVIDED CONTRACTOR SHALL PROVIDE CONDUIT REDUCERS TO MATCH SITE CONDUIT SIZE REQUIREMENTS.
4. FOR ALTERNATE STYLE PULLBOXES CONTRACTOR SHALL FIELD CORE DRILL ALL CONDUIT ENTRIES 2" DIA AND SMALLER.

UNDERGROUND PULLBOX STYLE 'C' TYP. INSTALLATION

NO SCALE

4 / E1.3



KEY NOTES:

1. WHERE CONDUITS SERVE INCOMING AND OUTGOING CIRCUITS KEEP RISERS SEPARATED INSIDE PULLBOX TO ALLOW FOR SLACK CONDUCTORS.
2. TOPS OF CONDUITS MUST NOT EXTEND INTO PULLBOX MORE THAN 1/3 OF THE TOTAL AVAILABLE INSIDE BOX HEIGHT. IN ORDER TO ALLOW ADEQUATE SPACE FOR CABLE SLACK.

UNDERGROUND PULLBOX STYLE 'A' OR 'B' TYP. INSTALLATION

NO SCALE

3 / E1.3

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

REGISTERED PROFESSIONAL ENGINEER
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Exp. 6-30-2021
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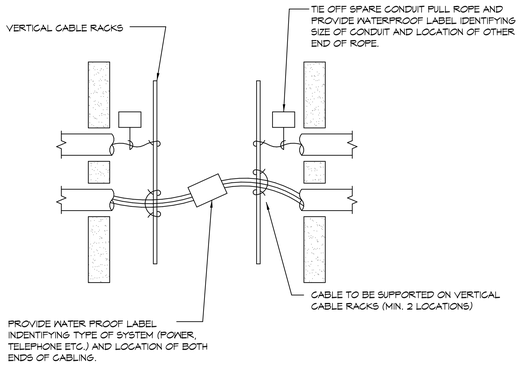
SITE ELECTRICAL DETAILS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E1.3

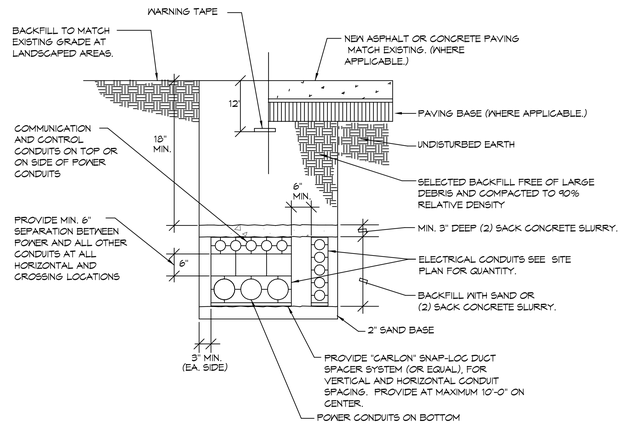
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TYPICAL UNDERGROUND PULLBOX LABELING/SUPPORT DETAIL

NO SCALE

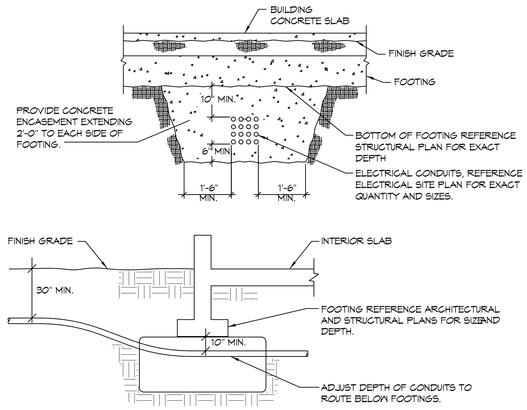
1 / E1.4



TYPICAL TRENCH DETAIL

NO SCALE

2 / E1.4



UNDERGROUND CONDUIT - INSTALLATION AT BUILDING FOOTING

NO SCALE

3 / E1.4

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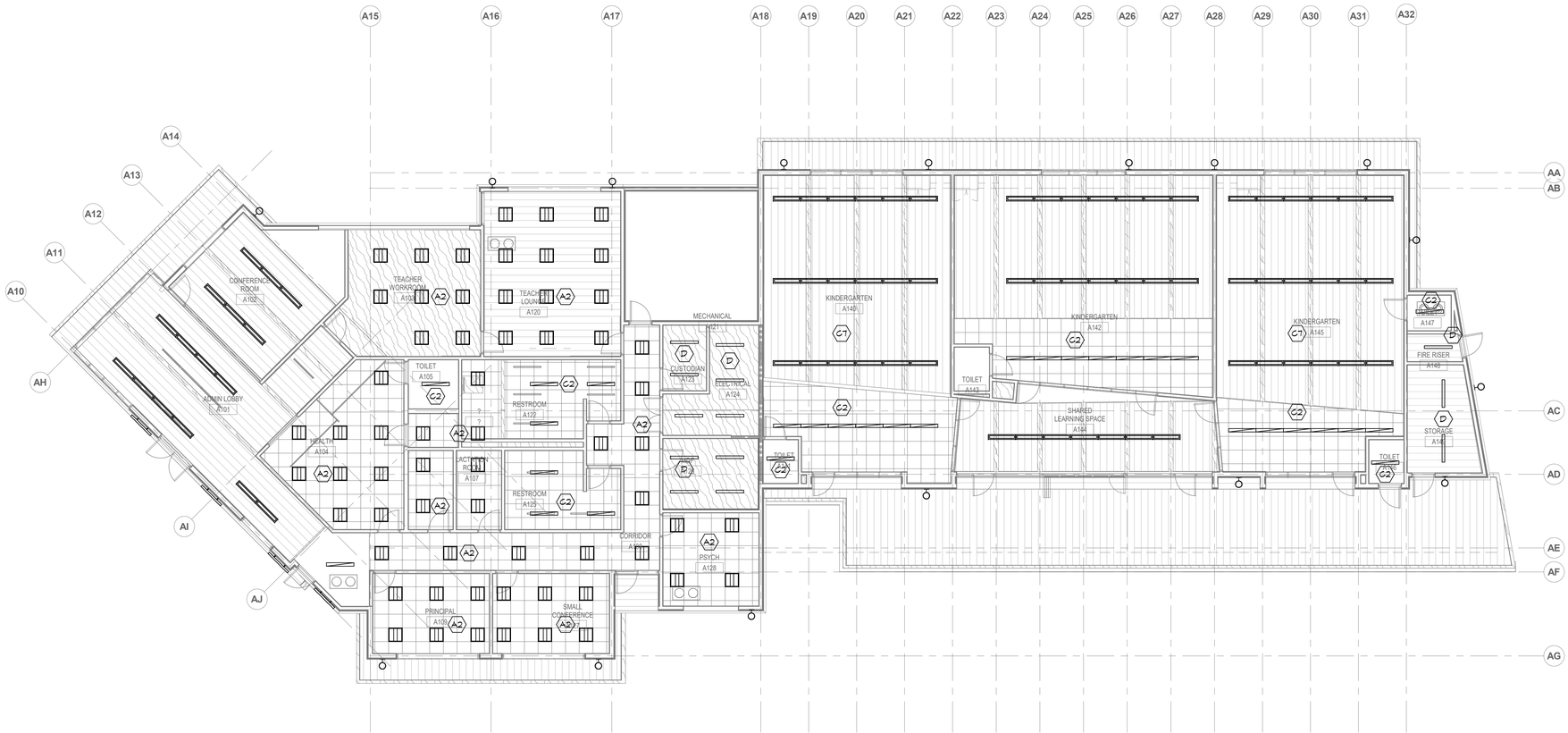
SITE ELECTRICAL DETAILS

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PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E1.4

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1 FLOOR PLAN BLDG A - LIGHTING

1/8" = 1'-0"

DEL MAR UNION SCHOOL DISTRICT

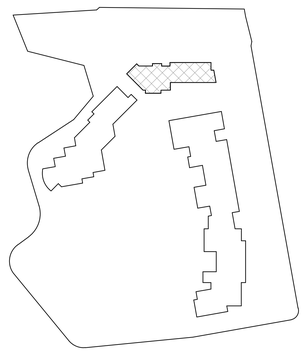
DEL MAR HEIGHTS SCHOOL

GENERAL NOTES:

1. REFERENCE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
2. REFERENCE E2 SERIES SHEETS FOR ALL FIXTURE TYPES AND FOR TYPICAL DETAILS.
3. REFERENCE E3 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
4. LETTERS IN OR ADJACENT TO EACH FIXTURE OR FIXTURE ROW INDICATES SWITCH AND OR OCCUPANCY SENSOR WHICH CONTROLS THE LIGHTING FIXTURE.
5. CIRCUIT HOMERUNS ARE INDICATED TO SHOW THE LOCATION AND NUMBER OF CIRCUITS TO BE GROUPED TOGETHER.
6. PROVIDE MINIMUM 3/4" CONDUIT AND #12 CIRCUIT CONDUCTORS AS REQUIRED TO CONNECT EACH LIGHTING FIXTURES TO THEIR INDICATED CONTROL DEVICES. (U.O.N.)

KEY NOTES:

1. SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.
2. 2 #12 (HOT), 1 #10 (NEUTRAL), 1 #12 (GND), 3/4"C.
3. 3 #12 (HOT), 1 #10 (NEUTRAL), 1 #12 (GND), 3/4"C.
4. 4 #12 (HOT), 2 #10 (NEUTRAL), 1 #12 (GND), 3/4"C.



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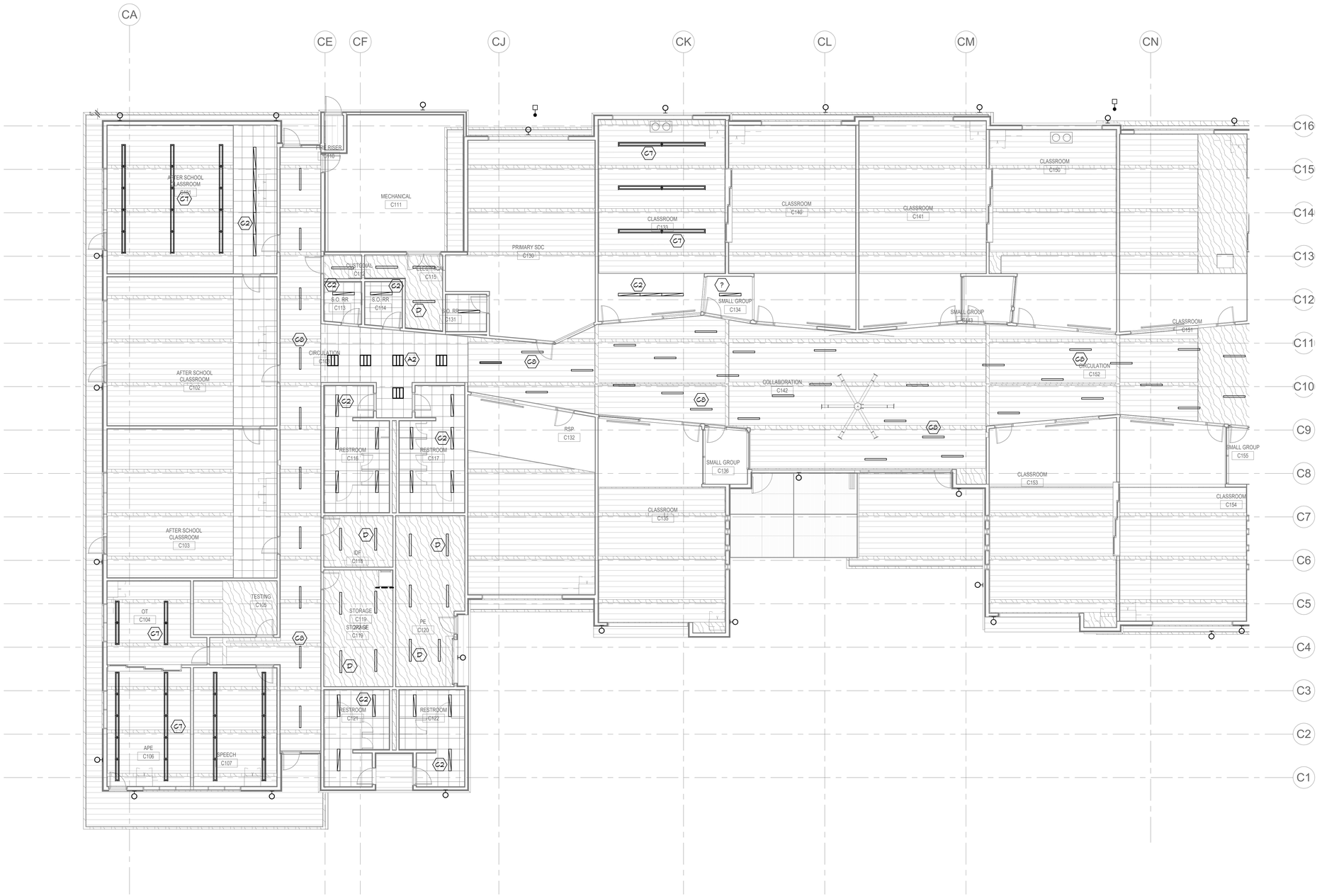
FLOOR PLAN BLDG A - LIGHTING

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E2.1

2/14/2020 6:29:14 PM BIM 360://19009-00 Del Mar Heights ES/ELEC-JCE-DMHS.rvt



1 FLOOR PLAN BLDG C NORTH - LIGHTING

1/8" = 1'-0"

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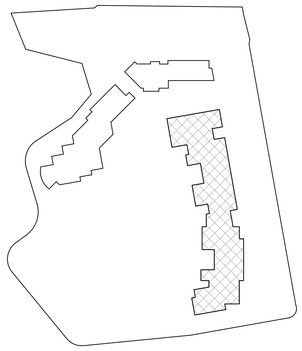
DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

GENERAL NOTES:

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KEY NOTES:

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2. 2 #12 (HOT), 1 #10 (NEUTRAL), 1 #12 (GND), 3/4"C.
3. 3 #12 (HOT), 1 #10 (NEUTRAL), 1 #12 (GND), 3/4"C.
4. 4 #12 (HOT), 2 #10 (NEUTRAL), 1 #12 (GND), 3/4"C.



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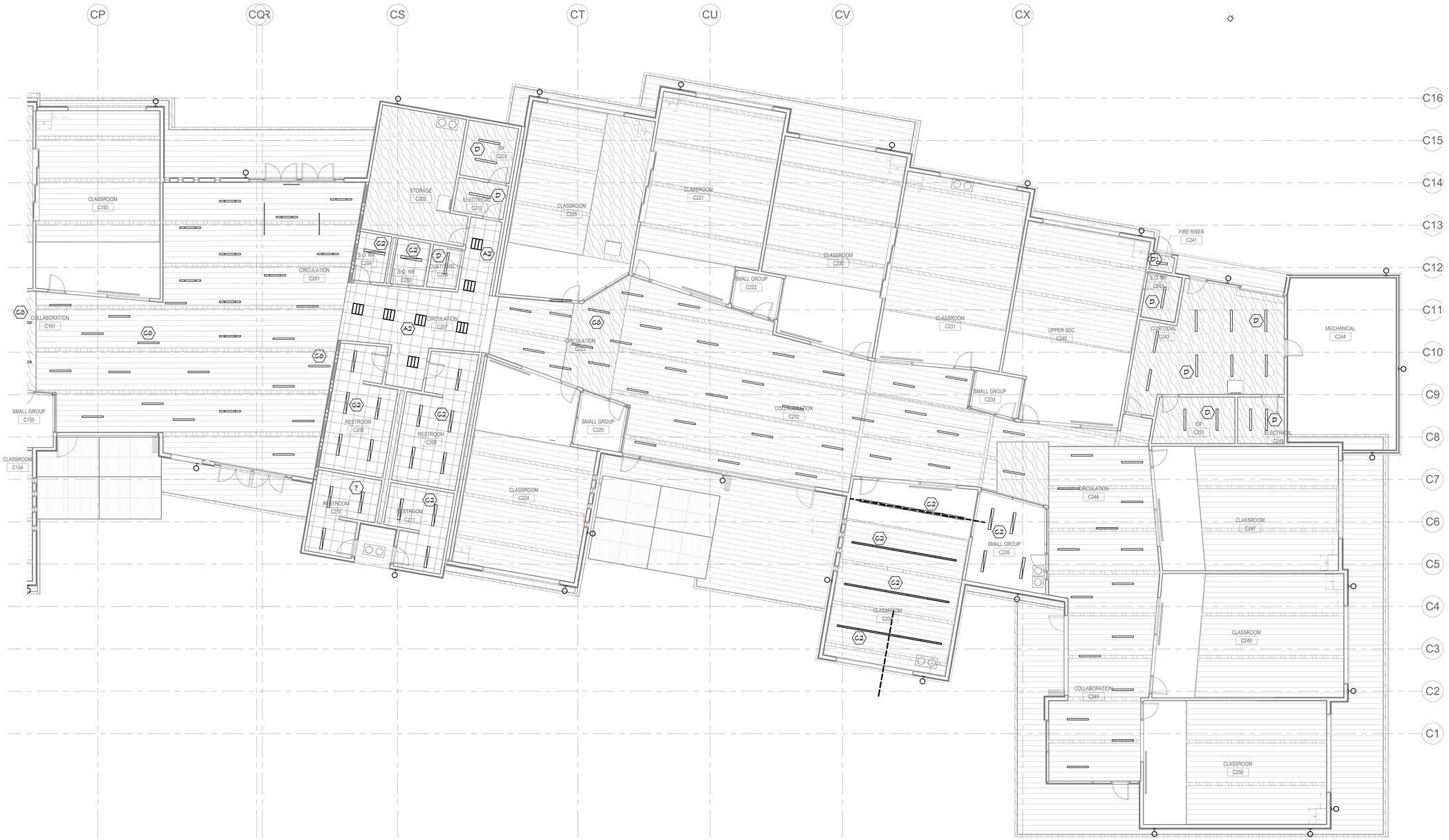
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FLOOR PLAN BLDG C
NORTH - LIGHTING

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E2.2



1 FLOOR PLAN BLDG C SOUTH - LIGHTING

1/8" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT

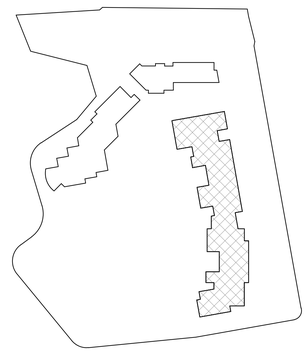
DEL MAR HEIGHTS SCHOOL

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4. 4 #12 (HOT), 2 #10 (NEUTRAL), 1 #12 (GND), 3/4"C.



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FLOOR PLAN BLDG C SOUTH - LIGHTING

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PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E2.3



1 FLOOR PLAN BLDG M EAST - LIGHTING

1/8" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT

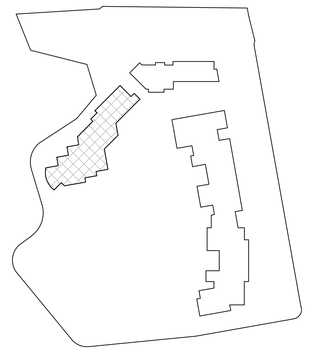
DEL MAR HEIGHTS SCHOOL

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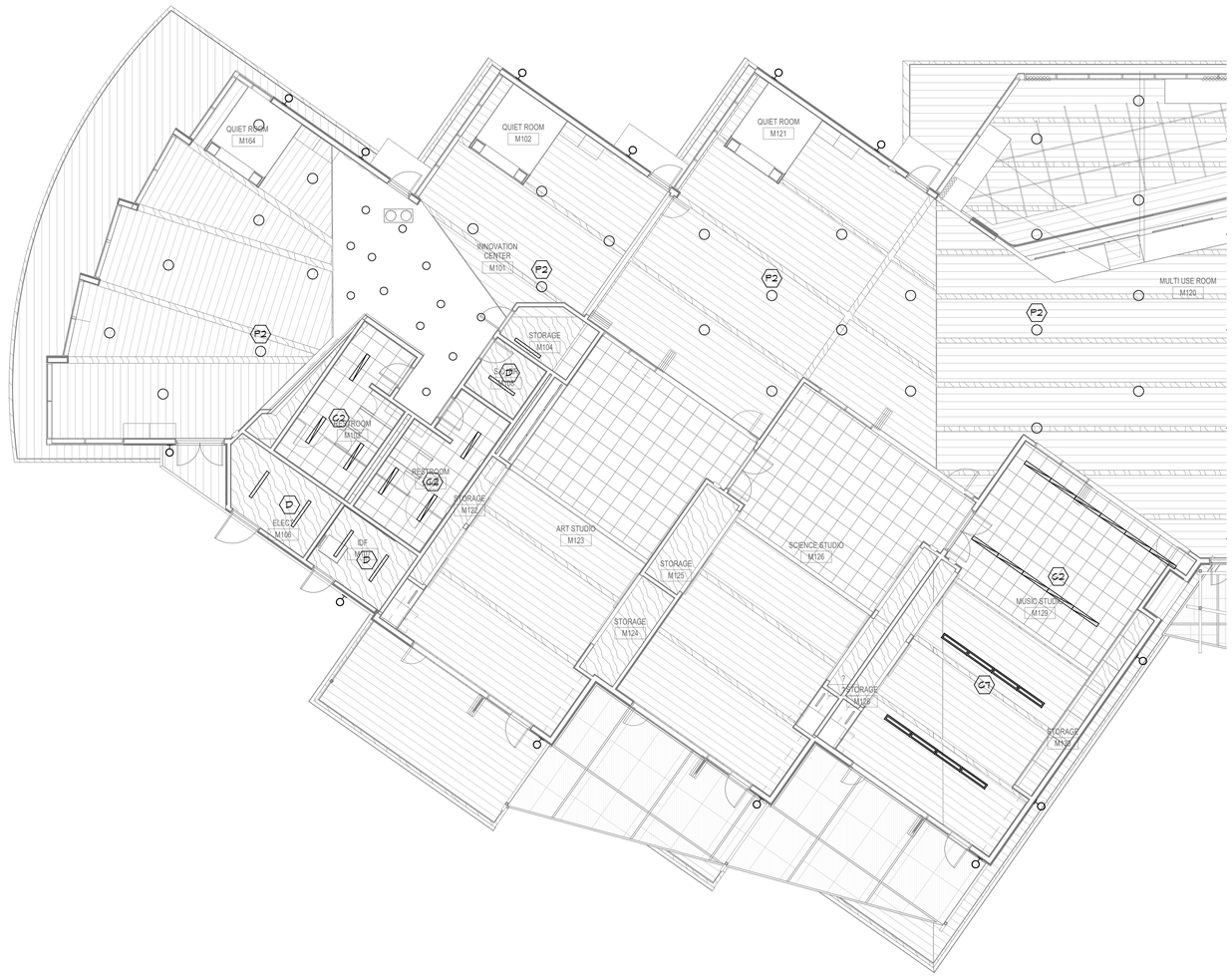
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FLOOR PLAN BLDG M EAST - LIGHTING

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E2.4



1 FLOOR PLAN BLDG M WEST - LIGHTING

1/8" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT

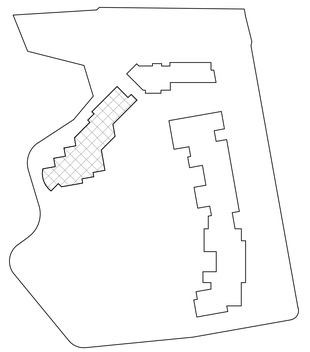
DEL MAR HEIGHTS SCHOOL

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FLOOR PLAN BLDG M WEST - LIGHTING

NO. DATE ISSUE

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DATE: 08/31/2019

DRAWING
E2.5

LIGHTING FIXTURE SCHEDULE

Mark	Approved Manufacturer's (See Key Note No. 1)	Catalog Series Type (See Key Note No. 2)	FIXTURE: Incandescent	Fluorescent	Metal Halide	High Pressure Sodium	Low Pressure Sodium	LED	Volts	Lamps Watts / Fixture Watts	LAMP: No.	Type	MOUNTING: Recessed / Ceiling	Surface / Ceiling	Wall	Recessed / Wall	Pendant	Surface / Wall	Pole	Description
S1	GOTHAM	6" EVO SERIES	☐	☐	☐	☐	☐	■	■ 120	23w			■	☐	☐	☐	☐	☐	☐	6 INCH DIAMETER MINIMUM 2500 LUMENS AT A CCT OF 4000 KELVIN. WET LOCATION LISTED. VANDAL RESISTANT PRISMATIC POLYCARBONATE LENS.
	COVENTRY	6LB79VWL SERIES							☐ 208											
	PHILIPS LIGHTOLIER	CALCULITE LED GEN3							■ 277											
									☐ 480											☐ Provide Emergency Ballast Type 'EM' ☐ Provide Custom Color Finish, to be selected at time submittal ☐ See Detail
S5	HUBBELL	GEOPAK SERIES TRP2	☐	☐	☐	☐	☐	■	■ 120	49w			☐	☐	■	☐	☐	☐	☐	TRAPEZOID ARCHITECTURAL WALLPACK. MINIMUM 5833 LUMEN AT A CCT OF 5000 KELVIN. TYPE 3 DISTRIBUTION. WET LOCATION LISTED. MOTION SENSOR/DIMMING OPTION. FINISH METALLIC SILVER/ALUMINUM.
	LITHONIA	WST LED SERIES							☐ 208											
									■ 277											
									☐ 480											☐ Provide Emergency Ballast Type 'EM' ☐ Provide Custom Color Finish, to be selected at time submittal ☐ See Detail
SP	ARCH AREA LTG	LARGENT SERIES	☐	☐	☐	☐	☐	■	■ 120	76w			☐	☐	☐	☐	☐	☐	■	POST TOP POLE MOUNTED FIXTURE, 25" DIAMETER HEAD WITH 3 ARMS RISING UP TO HEAD FROM POLE. MINIMUM 7,000 LUMEN, 4000 KELVIN, 0-10v DIMMING TYPE 5, CAST ALUMINUM, MOUNTED ON 10'-0" ALUMINUM POLE DESIGNED FOR 115 MPH WIND SPEED WITH MOTION SENSOR AND METALLIC SILVER FINISH.
									☐ 208											
									■ 277											
									☐ 480											☐ Provide Emergency Ballast Type 'EM' ☐ Provide Custom Color Finish, to be selected at time submittal ■ See Detail (3 / E2.6)
S26A	BEACON	VIPER SERIES-SMALL	☐	☐	☐	☐	☐	■	■ 120	135w			☐	☐	☐	☐	☐	☐	■	MINIMUM 8,400 LUMEN, 4000 KELVIN, 0-10v DIMMING TYPE 4 CUT-OFF WITH HOUSESIDE SHIELD, CAST ALUMINUM, MOUNTED ON 12'-0" ALUMINUM POLE DESIGNED FOR 115 MPH WIND SPEED (SINGLE FIXTURE HEAD PER POLE) WITH MOTION SENSOR AND METALLIC SILVER FINISH.
	VISIONAIRE	VLX LED SERIES							☐ 208											
	LITHONIA	D-SERIES SIZE 1							■ 277											
									☐ 480											☐ Provide Emergency Ballast Type 'EM' ☐ Provide Custom Color Finish, to be selected at time submittal ■ See Detail (1 / E2.6)
S26B	BEACON	VIPER SERIES-SMALL	☐	☐	☐	☐	☐	■	■ 120	270w			☐	☐	☐	☐	☐	☐	■	MINIMUM 9,256 LUMEN, 5000 KELVIN, 0-10v DIMMING TYPE 4 CUT-OFF, CAST ALUMINUM, MOUNTED ON 22'-0" ALUMINUM POLE DESIGNED FOR 115 MPH WIND SPEED (TWIN FIXTURE HEAD PER POLE) WITH MOTION SENSOR AND METALLIC SILVER FINISH.
	VISIONAIRE	VLX LED SERIES							☐ 208											
	LITHONIA	D-SERIES SIZE 1							■ 277											
									☐ 480											☐ Provide Emergency Ballast Type 'EM' ☐ Provide Custom Color Finish, to be selected at time submittal ■ See Detail (1 / E2.6)

LIGHTING FIXTURE SCHEDULE

Mark	Approved Manufacturer's (See Key Note No. 1)	Catalog Series Type (See Key Note No. 2)	FIXTURE: Incandescent	Fluorescent	Metal Halide	High Pressure Sodium	Low Pressure Sodium	LED	Volts	Lamps Watts / Fixture Watts	LAMP: No.	Type	MOUNTING: Recessed / Ceiling	Surface / Ceiling	Wall	Recessed / Wall	Pendant	Surface / Wall	Pole	Description
A1	CREE	CR24 SERIES	☐	☐	☐	☐	☐	■	■ 120	50w			■	☐	☐	☐	☐	☐	☐	2'X4' T-GRID FIXTURE. MINIMUM 5000 LUMENS AT A CCT OF 5000 KELVIN. DRIVER VOLTAGE UNIVERSAL. 0-10v DIMMING
	DAY-BRITE	LTGR24							☐ 208											
	LITHONIA	2BLT							■ 277											
	COLUMBIA	LTGR 24							☐ 480											☐ Provide Emergency Ballast Type 'EM' ☐ Provide Custom Color Finish, to be selected at time submittal ■ See Detail
A2	CREE	CR22 SERIES	☐	☐	☐	☐	☐	■	■ 120	32w			■	☐	☐	☐	☐	☐	☐	2'X2' T-GRID FIXTURE. MINIMUM 3200 LUMENS AT A CCT OF 5000 KELVIN. DRIVER VOLTAGE UNIVERSAL. 0-10v DIMMING
	DAY-BRITE	FLUXGRID LED 2X2							☐ 208											
	LITHONIA	2BLT							■ 277											
	COLUMBIA	LTGR22							☐ 480											☐ Provide Emergency Ballast Type 'EM' ☐ Provide Custom Color Finish, to be selected at time submittal ■ See Detail
C2	PINNACLE ARCH. LIGHTING	EDGE EV3A SERIES	☐	☐	☐	☐	☐	■	■ 120	25.8w			■	☐	☐	☐	☐	☐	☐	LINEAR FLANGED FIXTURE. 3"W X 5 1/8"D X 36"L MINIMUM 1926 LUMENS AT A CCT OF 4000 KELVIN. MATTE WHITE FINISH. 0-10v DIMMING
	PHILIPS LEDALITE	TRUGROOVE RECESSED							☐ 208											
	LUMENWERX	VIA 3 LED (RECESSED)							■ 277											
	AXIS LIGHTING	BEAM3 LED SERIES							☐ 480											☐ Provide Emergency Ballast Type 'EM' ☐ Provide Custom Color Finish, to be selected at time submittal ☐ See Detail
C7	PINNACLE ARCH. LIGHTING	EDGE EV3A SERIES	☐	☐	☐	☐	☐	■	■ 120	25.8w			■	☐	☐	☐	☐	☐	☐	LINEAR FLANGED FIXTURE. 3"W X 5 1/8"D X 36"L MINIMUM 1926 LUMENS AT A CCT OF 4000 KELVIN. MATTE WHITE FINISH. 0-10v DIMMING
	PHILIPS LEDALITE	TRUGROOVE RECESSED							☐ 208											
	LUMENWERX	VIA 3 LED (RECESSED)							■ 277											
	AXIS LIGHTING	BEAM3 LED SERIES							☐ 480											☐ Provide Emergency Ballast Type 'EM' ☐ Provide Custom Color Finish, to be selected at time submittal ☐ See Detail
C8	PINNACLE ARCH. LIGHTING	EDGE EV3A SERIES	☐	☐	☐	☐	☐	■	■ 120	25.8w			■	☐	☐	☐	☐	☐	☐	LINEAR FLANGED FIXTURE. 3"W X 5 1/8"D X 36"L MINIMUM 1926 LUMENS AT A CCT OF 4000 KELVIN. MATTE WHITE FINISH. 0-10v DIMMING
	PHILIPS LEDALITE	TRUGROOVE RECESSED							☐ 208											
	LUMENWERX	VIA 3 LED (RECESSED)							■ 277											
	AXIS LIGHTING	BEAM3 LED SERIES							☐ 480											☐ Provide Emergency Ballast Type 'EM' ☐ Provide Custom Color Finish, to be selected at time submittal ☐ See Detail
D	LITHONIA	ZLIN SERIES	☐	☐	☐	☐	☐	■	■ 120	45w			☐	■	☐	☐	☐	☐	☐	LINEAR SURFACE STRIP FIXTURE. 3 3/8"W X 3 1/4"D X 48 1/8"L. MINIMUM 5000 LUMENS AT A CCT OF 5000 KELVIN. 0-10v DIMMING
	DAYBRITE	FLUXSTREAM							☐ 208											
	COLUMBIA	LCL SERIES							■ 277											
	WILLIAMS	75 LED SERIES							☐ 480											☐ Provide Emergency Ballast Type 'EM' ☐ Provide Custom Color Finish, to be selected at time submittal ☐ See Detail
D1	DAY-BRITE	FLUXSTREAM	☐	☐	☐	☐	☐	■	■ 120	26w			☐	☐	☐	■	☐	☐	☐	LINEAR SURFACE STRIP FIXTURE. 3 3/8"W X 3 1/4"H X 36 1/8"L. MINIMUM 3000 LUMENS AT A CCT OF 5000 KELVIN. 0-10v DIMMING
									☐ 208											
									■ 277											
									☐ 480											☐ Provide Emergency Ballast Type 'EM' ☐ Provide Custom Color Finish, to be selected at time submittal ☐ See Detail
E	LUMENWERX	FORTEX 4 LED	☐	☐	☐	☐	☐	■	■ 120	74w			☐	☐	☐	■	☐	☐	☐	2'X2' RECTANGULAR PENDANT. MINIMUM 797 LUMENS/FT AT A CCT OF 4000 KELVIN. REGULAR MOUNT OR MP1454 (FOUR CORNER MOUNT) DEPENDING ON LOCATION. 0-10v DIMMING
	PINNACLE ARCH. LIGHTING	EDGE EX1 SERIES							☐ 208											
	PRUDENTIAL	LED QUAD FRAME							■ 277											
									☐ 480											☐ Provide Emergency Ballast Type 'EM' ☐ Provide Custom Color Finish, to be selected at time submittal ■ See Detail
G	PRESCOLITE	LF4 SERIES	☐	☐	☐	☐	☐	■	■ 120	26.6w			■	☐	☐	☐	☐	☐	☐	4 INCH DIAMETER, MINIMUM 3000 LUMEN AT A CCT OF 4000 KELVIN. 0-10v DIMMING
	COOPER	LD4							☐ 208											
	WILA	623 SERIES							■ 277											
	LITHONIA	LDN4 SERIES							☐ 480											☐ Provide Emergency Ballast Type 'EM' ☐ Provide Custom Color Finish, to be selected at time submittal ☐ See Detail
	LEVITON	INTENSE SSLED																		

LIGHTING SCHEDULE INDOOR

NO SCALE

(1 / E2.6)

LIGHTING FIXTURE SCHEDULE

Mark	Approved Manufacturer's (See Key Note No. 1)	Catalog Series Type (See Key Note No. 2)	FIXTURE: Incandescent	Fluorescent	Metal Halide	High Pressure Sodium	Low Pressure Sodium	LED	Volts	Lamps Watts / Fixture Watts	LAMP: No.	Type	MOUNTING: Recessed / Ceiling	Surface / Ceiling	Wall	Recessed / Wall	Pendant	Surface / Wall	Pole	Description
K	COLUMBIA	LLT24 SERIES	☐	☐	☐	☐	☐	■	■ 120	38w			■	☐	☐	☐	☐	☐	☐	MINIMUM 4900 LUMEN AT A CCT OF 5000 KELVIN. FLUSH ALUMINUM FRAME, .156" ACRYLIC LENS AND TRIPLE GASKETING. 0-10v DIMMING
	COOPER	24GR LED SERIES							☐ 208											
	NEWSTAR	STARCLEAN SERIES							■ 277											
									☐ 480											☐ Provide Emergency Ballast Type 'EM' ☐ Provide Custom Color Finish, to be selected at time submittal ☐ See Detail
K1	COLUMBIA	LLT24 SERIES	☐	☐	☐	☐	☐	■	■ 120	38w			■	☐	☐	☐	☐	☐	☐	MINIMUM 4900 LUMEN AT A CCT OF 5000 KELVIN. FLUSH ALUMINUM FRAM, .156" ACRYLIC LENS AND SINGLE GASKETING. 0-10v DIMMING
	COOPER	24GR LED SERIES							☐ 208											
	NEWSTAR	STARCLEAN SERIES							■ 277											
									☐ 480											☐ Provide Emergency Ballast Type 'EM' ☐ Provide Custom Color Finish, to be selected at time submittal ☐ See Detail
P	GE	ALBEO ABH2 SERIES	☐	☐	☐	☐	☐	■	■ 120	359w			☐	■	☐	☐	☐	☐	☐	MINIMUM 34,300 LUMENS AT A CCT OF 5000 KELVIN, 120 DEGREE OPTICS. 0-10v DIMMING
	LITHONIA	IBL SERIES							☐ 208											
	VISIONAIRE	BHB SERIES							■ 277											
									☐ 480											☐ Provide Emergency Ballast Type 'EM' ☐ Provide Custom Color Finish, to be selected at time submittal ■ See Detail
X	LITHONIA	LQM SERIES	☐	☐	☐	☐	☐	■	■ 120	1w			☐	☐	■	☐	☐	☐	☐	THERMOPLASTIC LED EXIT SIGN AC ONLY AND RED LETTERING. NUMBER OF FACES AS REQUIRED. SURFACE MOUNT ABOVE DOOR OR CEILING MOUNT AS REQUIRED.
	ISOLITE	RELIANCE SERIES							☐ 208											
	DUAL LITE	EVE SERIES							■ 277											
	PHILIPS	CLX SERIES							☐ 480											☐ Provide Emergency Ballast Type 'EM' ☐ Provide Custom Color Finish, to be selected at time submittal ☐ See Detail

LIGHTING FIXTURE SCHEDULE KEY NOTES:

1. ALTERNATE MANUFACTURER'S TO THOSE SPECIFIED MAY BE SUBMITTED FOR APPROVAL. ALTERNATE MANUFACTURER'S MUST MEET THE MINIMUM CRITERIA INDICATED IN THE DESCRIPTION AND OPTIONS COLUMNS OF THIS SCHEDULE, AND MUST BE EQUAL TO THE SPECIFIED FIXTURE AS DETERMINED BY THE SPECIFYING ENGINEER. (ALTERNATE FIXTURES MUST BE APPROVED PRIOR TO BID, ALLOW 12 HOURS FOR ENGINEER REVIEW AND APPROVED). WHERE NO KNOWN EQUAL IS INDICATED THE FIXTURE DOES NOT HAVE AN EQUAL TO MEET THE PROJECT REQUIREMENTS, AND ALTERNATE SELECTIONS WILL NOT BE ACCEPTED.
2. COMPLETE CATALOG NUMBERS HAVE NOT BEEN PROVIDED, REFERENCE THE DESCRIPTION AND OPTIONS COLUMNS OF THIS SCHEDULE FOR COMPLETE FIXTURE REQUIREMENTS.
3. EMERGENCY POWER FOR LIGHTING IS SUPPLIED BY CENTRAL INVERTER.

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

REGISTERED PROFESSIONAL ENGINEER — MARIA LOUISE HANSEN — NO.E 14781 — Exp. 6-30-2019 — ELECTRICAL — STATE OF CALIFORNIA

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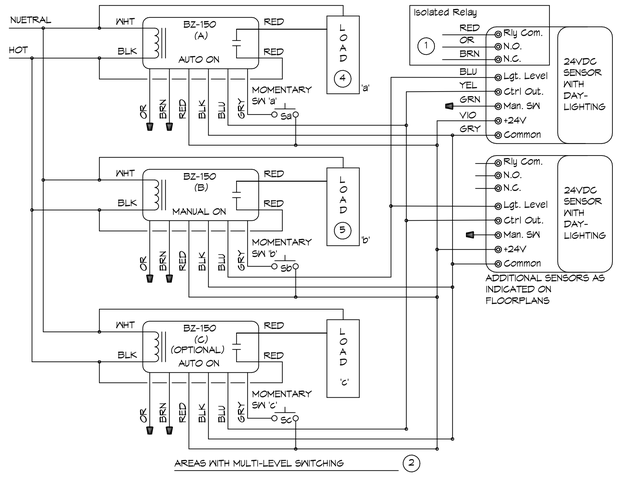
LIGHTING FIXTURE SCHEDULE

NO.	DATE	ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

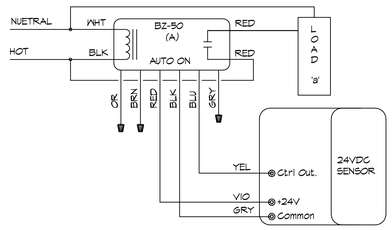
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GENERAL NOTES:

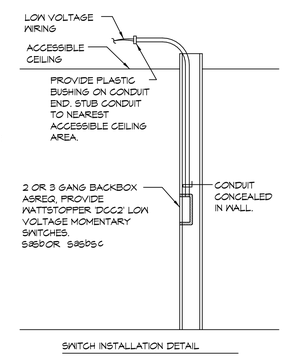
1. PROVISIONS FOR FUTURE HVAC SYSTEM LOW VOLTAGE CONTROL POWER CONNECTION
2. THIS DIAGRAM APPLIES TO ALL AREAS WHERE THESE SYMBOLS OCCUR. SEE FLOOR PLANS FOR LOCATION.
3. THIS DIAGRAM APPLIES TO ALL AREAS WHERE THESE SYMBOLS OCCUR. SEE FLOOR PLANS FOR LOCATION.
4. FOR 3 LAMP FIXTURES SWITCH 'a' SHALL BE AN OVERRIDE SWITCH FOR THE TWO OUTSIDE LAMPS IN CEILING FLUORESCENT FIXTURES. SEE FLOOR PLANS FOR OTHER SWITCHING REQ.
5. FOR 3 LAMP FIXTURES SWITCH 'b' SHALL BE AN OVERRIDE SWITCH FOR THE CENTER LAMP. SET LIGHT LEVEL SENSITIVITY TO 50 FC, LIGHT TO REMAIN OFF WHEN AMBIENT LIGHT IS ABOVE 50 FC.



AREAS WITH OCCUPANCY SENSOR ONLY 3

GENERAL NOTES:

1. FIELD WIRE SENSOR FOR THE FOLLOWING: "LIGHTS ON" - BY EITHER TECHNOLOGY "REMAIN ON" - BY BOTH TECHNOLOGIES "LIGHTS OFF" - BY BOTH TECHNOLOGIES

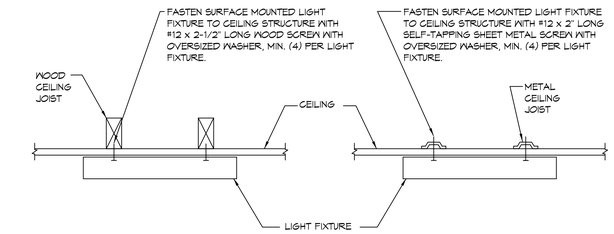


SWITCH INSTALLATION DETAIL

OCCUPANCY SENSOR CONTROL DIAGRAM

NO SCALE

1 E2.7



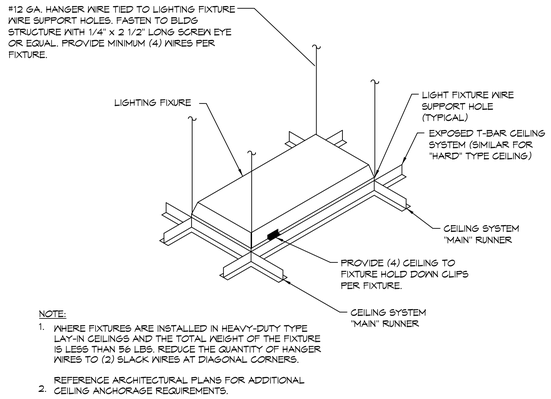
NOTE:

1. REFERENCE ARCHITECTURAL PLANS FOR TYPE OF CEILING STRUCTURE AT ALL FIXTURE LOCATIONS.

SURFACE MOUNTED FIXTURE MOUNTING DETAIL

NO SCALE

2 E2.7



NOTE:

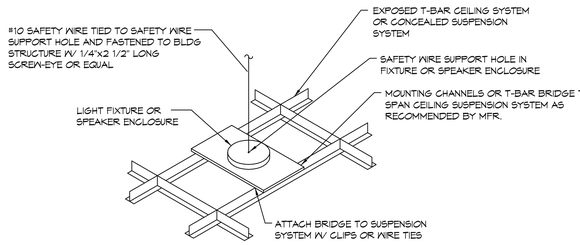
1. WHERE FIXTURES ARE INSTALLED IN HEAVY-DUTY TYPE LAY-IN CEILINGS AND THE TOTAL WEIGHT OF THE FIXTURE IS LESS THAN 56 LBS, REDUCE THE QUANTITY OF HANGER WIRES TO (2) SLACK WIRES AT DIAGONAL CORNERS.

   REFERENCE ARCHITECTURAL PLANS FOR ADDITIONAL
2. CEILING ANCHORAGE REQUIREMENTS.

FLUORESCENT FIXTURE SEISMIC RESTRAINT DETAIL

NO SCALE

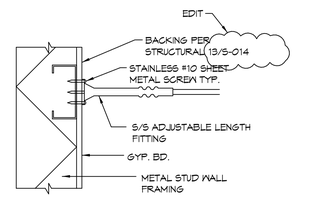
3 E2.7



LUMINAIRE AND SPEAKER ENCLOSURE SEISMIC RESTRAINT DETAIL

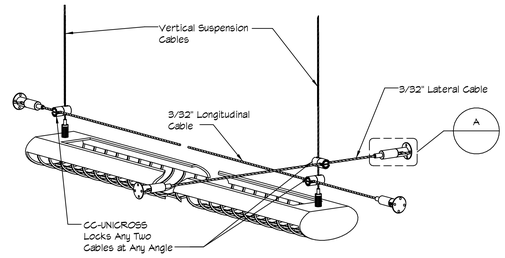
NO SCALE

4 E2.7



WALL ATTACHMENT A

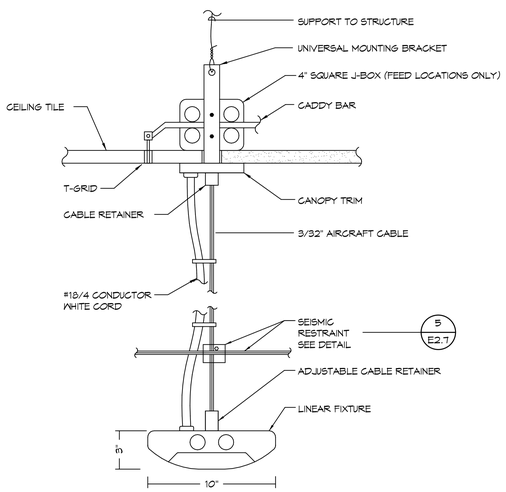
NO SCALE



PENDANT HUNG FIXTURE SEISMIC RESTRAINT

NO SCALE

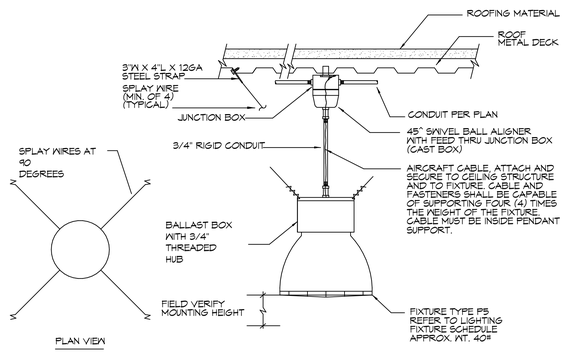
5 E2.7



PENDANT HUNG LINEAR FIXTURE MOUNTING

NO SCALE

6 E2.7



PENDANT MOUNTED LIGHTING FIXTURE DETAIL

NO SCALE

7 E2.7

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

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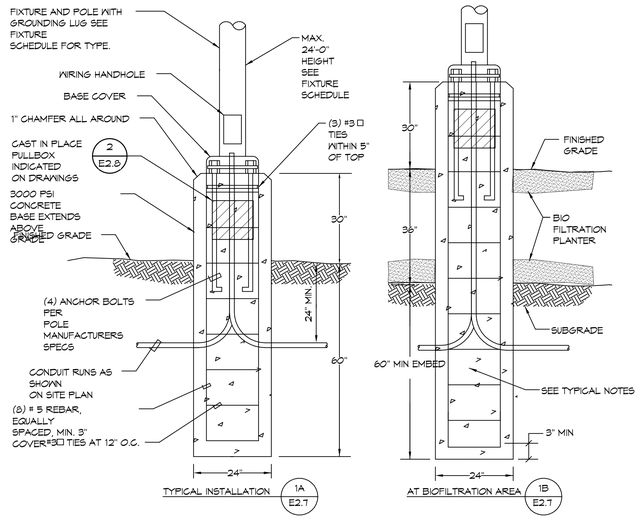
LIGHTING DETAILS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

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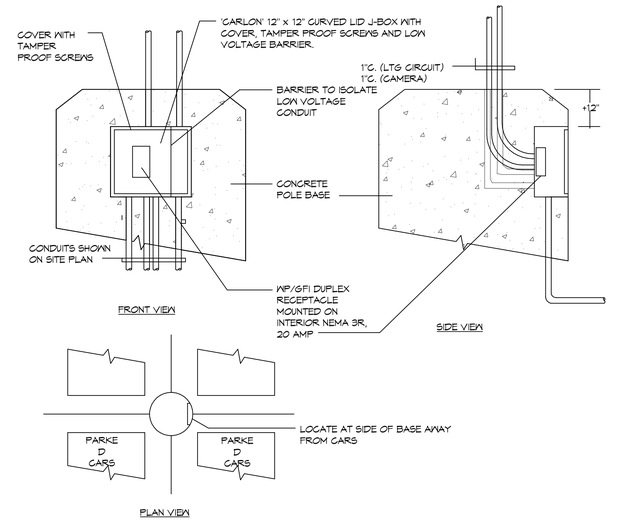
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CONCRETE BASE AND POLE DETAIL

NO SCALE

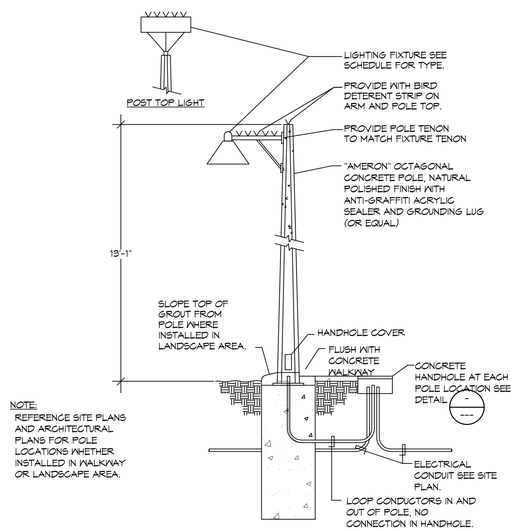
1 E2.8



POLE BASE PULLBOX/RECEPTACLE

NO SCALE

2 E2.8



CONCRETE POLE DETAIL

NO SCALE

3 E2.8

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REGISTERED PROFESSIONAL ENGINEER MICHAEL GRESE-HANSEN NO.E 14781 Exp. 6-30-2021 ELECTRICAL STATE OF CALIFORNIA

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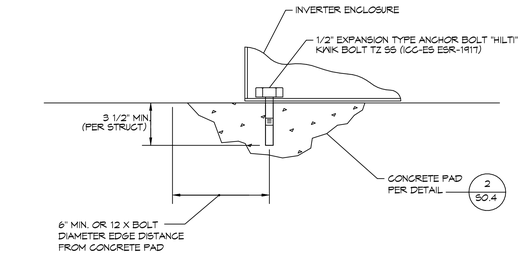
LIGHTING DETAILS

NO. DATE ISSUE

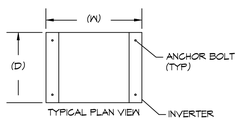
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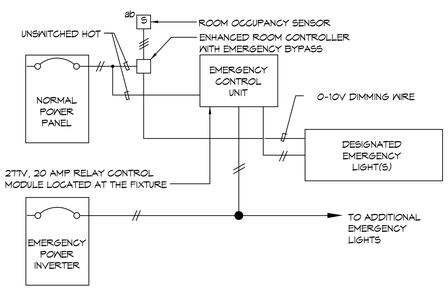
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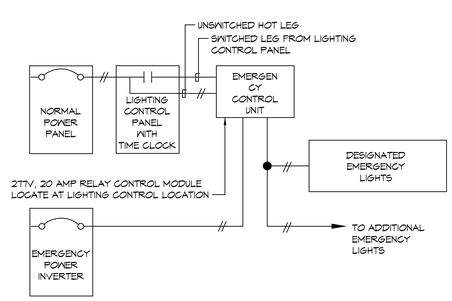
LIGHTING INVERTER SIZING				
	WIDTH (W)	DEPTH (D)	HEIGHT (H)	WEIGHT
'INV10'	30"	19"	92"	1365#
'INV20'	30"	19"	92"	1384#
'INV3T'	30"	19"	92"	1472#
'INV66'	60"	19"	92"	2830#



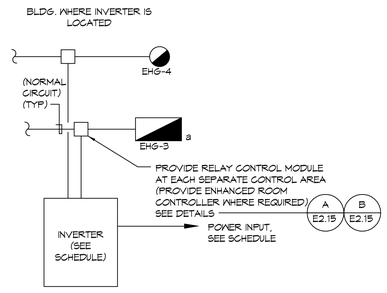
LIGHTING INVERTER ANCHORAGE
NO SCALE — 2/E2.9



FIXTURE WIRING DIAGRAM (ROOM SENSOR AND/OR LOCAL SWITCH)
NO SCALE — A/E2.15



FIXTURE WIRING DIAGRAM (LOW VOLTAGE CONTROL SYSTEM)
NO SCALE — B/E2.15



INVERTER CONFIGURATION DIAGRAM
NO SCALE — C/E2.15

INVERTER SCHEDULE				
CENTRAL INVERTER LOCATION	INVERTER I.D.	INVERTER TYPE I.D. (SEE SCHEDULE BELOW)	OUTPUT CIRCUITS	REMARKS
BUILDING 'A'	'INVA'	'INV21'	'INVA-1, INVA-2, INVA-4"	NOTE: 2TTv IN / 2TTv OUT
BUILDING 'C NORTH'	'INVCN'	'INV2T'	'INVB-1, INVB-2, INVB-3, INVB-4"'	NOTE: 2TTv IN / 2TTv OUT
BUILDING 'C SOUTH'	'INVCS'	'INV2T'	'INVC-1, INVC-2, INVC-4'	NOTE: 2TTv IN / 2TTv OUT
BUILDING 'M'	'INVM'	'INV2T'	'INVD-1, INVD-2, INVD-4'	NOTE: 2TTv IN / 2TTv OUT

INVERTER TYPE SCHEDULE					
I.D.	MINIMUM KVA RATING:	*INPUT BREAKER. (VOLTAGE/POLES)	*OUTPUT BREAKER. (REFERENCE PLANS FOR QTY. REQUIRED)	**MAXIMUM ENCLOSURE SIZE: WIDTH x HEIGHT x DEPTH (WEIGHT)	NOTES:
'INV 075'	750VA	15A (120/1) / 15A (2TT/1)	(2) 20 AMP / 1 POLE	FLOOR MOUNTED (1) 32"W x 36"H x 12"D - CONTROL/BATTERY	*VALUES SHOWN ON SCHEDULE ARE BASED ON DUAL LITE PRODUCTS, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING INPUT/OUTPUT REQUIREMENTS WHEN NON-MYERS PRODUCTS ARE USED. **MAXIMUM DIMENSIONS AND WEIGHTS BASED ON APPROVED MANUFACTRERS PRODUCTS. SEE SPECIFICATIONS.
'INV10'	1.0	20A (120/1) / 15A (2TT/1)	(4) 20 AMP / 1 POLE (MAX.)	FLOOR MOUNTED (1) 32"W x 36"H x 12"D - CONTROL/BATTERY	
'INV21'	2.1	30A (120/1) / 15A (2TT/1)	(4) 20 AMP / 1 POLE (MAX.)	FLOOR MOUNTED (1) 32"W x 36"H x 12"D - CONTROL/BATTERY	
'INV2T'	2.7	40A (120/1) / 20A (2TT/1)	(4) 20 AMP / 1 POLE (MAX.)	FLOOR MOUNTED (1) 30"W x 92"H x 19"D - CONTROL/BATTERY	
'INV3T'	3.7	50A (120/1) / 25A (2TT/1)	(6) 20 AMP / 1 POLE (MAX.)	FLOOR MOUNTED (1) 30"W x 92"H x 19"D - CONTROL/BATTERY	
'INV48'	4.8	30A (2TT) / 40A (208) / 70A (120)	(12) 20 AMP / 1 POLE (MAX.)	FLOOR MOUNTED 60"W x 92"H x 19"D - CONTROL/BATTERY	

EMERGENCY LIGHTING DIAGRAM
NO SCALE — 1/E2.9

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

REGISTERED PROFESSIONAL ENGINEER
MICHAEL GOESE-HANSEN
NO.E 14781
Exp. 6-30-2021
ELECTRICAL
STATE OF CALIFORNIA
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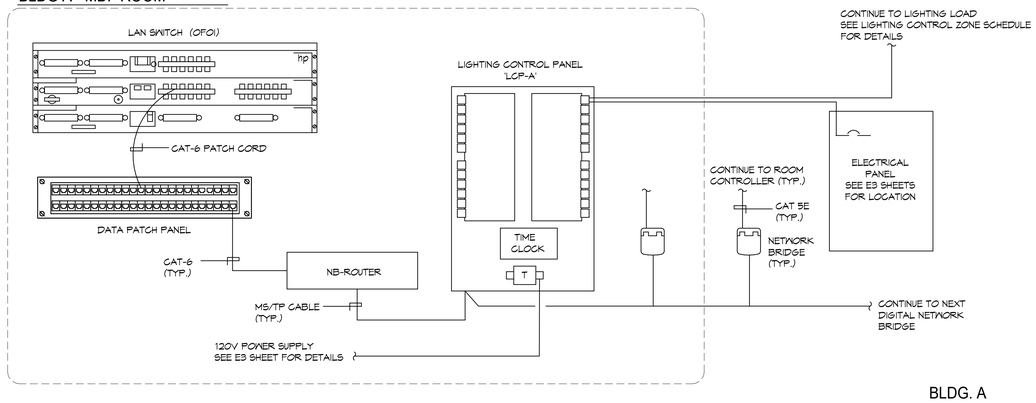
LIGHTING DETAILS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

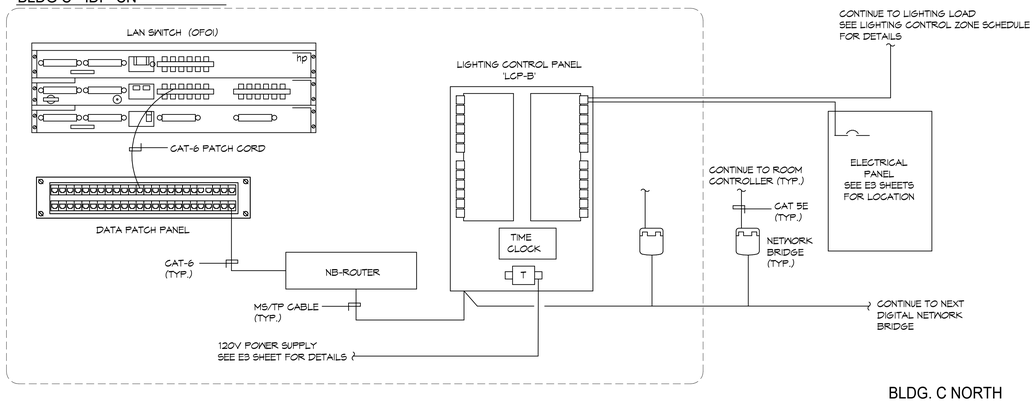
DRAWING
E2.9

BLDG A - MDF ROOM



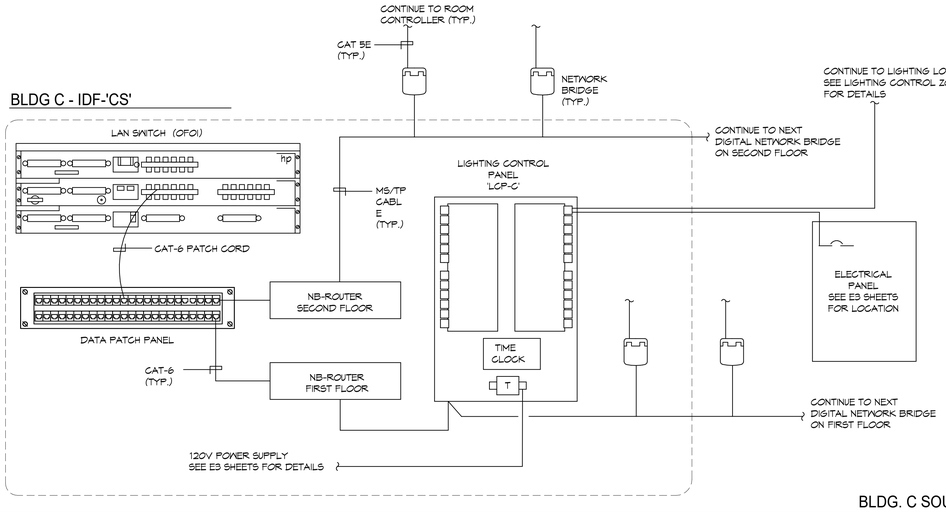
BLDG. A

BLDG C - IDF-'CN'



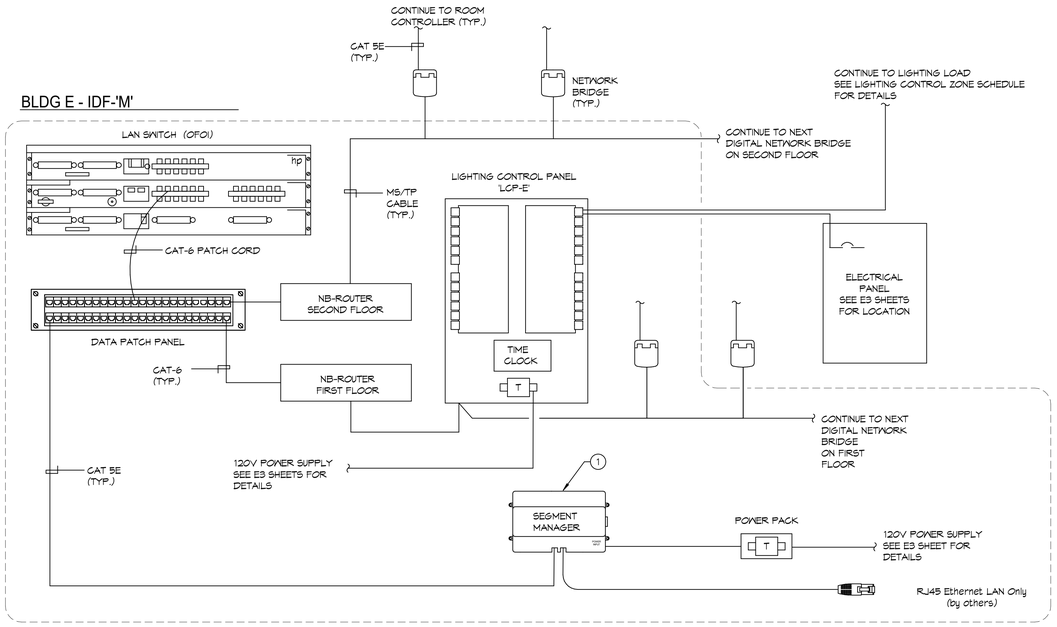
BLDG. C NORTH

BLDG C - IDF-'CS'



BLDG. C SOUTH

BLDG E - IDF-'M'



BLDG. M

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

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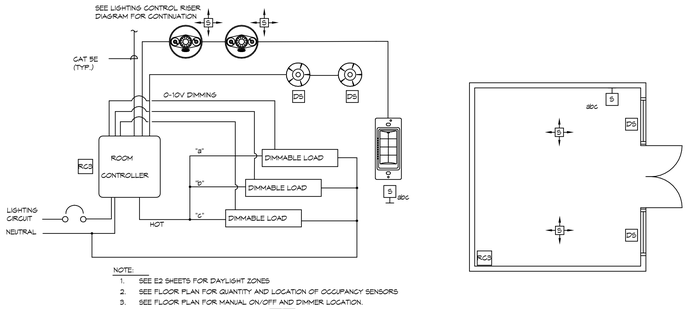
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LIGHTING CONTROL DIAGRAMS

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DRAWING
E2.10

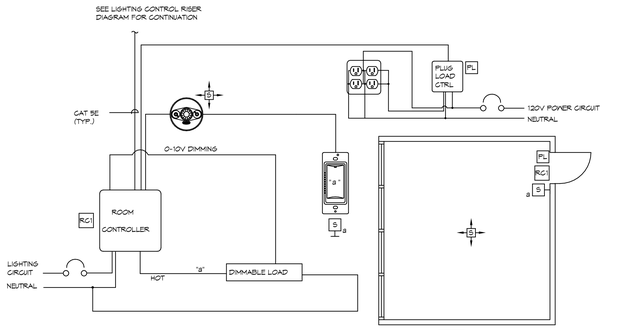


TYPICAL ROOM TYPE - LIBRARY

N1

NO SCALE

1 E2.12

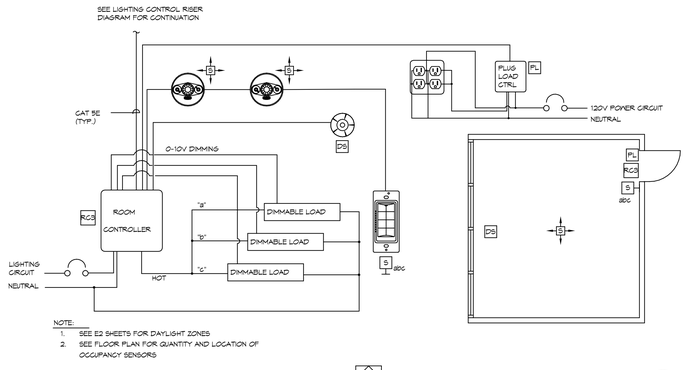


TYPICAL ROOM TYPE - OFFICE W/O DAYLIGHT ZONE

J4

NO SCALE

5 E2.12

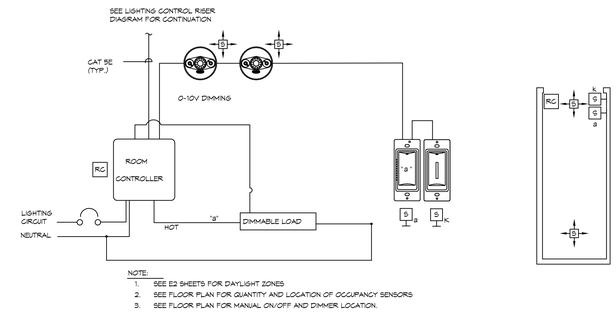


TYPICAL ROOM TYPE - OFFICE W/ 3 ZONES

J1

NO SCALE

2 E2.12

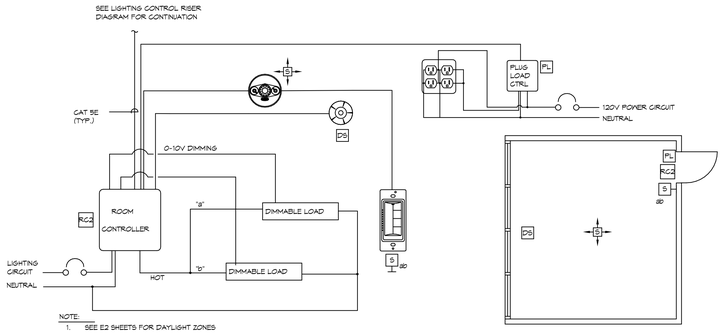


TYPICAL ROOM TYPE - STAIRWAY

K

NO SCALE

6 E2.12

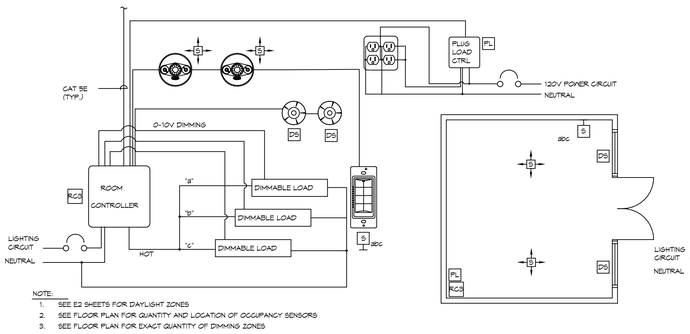


TYPICAL ROOM TYPE - OFFICE W/ 2 ZONES

J2

NO SCALE

3 E2.12

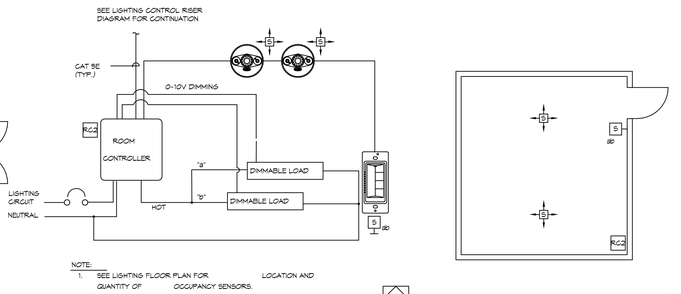


TYPICAL ROOM TYPE - LOBBY

L

NO SCALE

7 E2.12

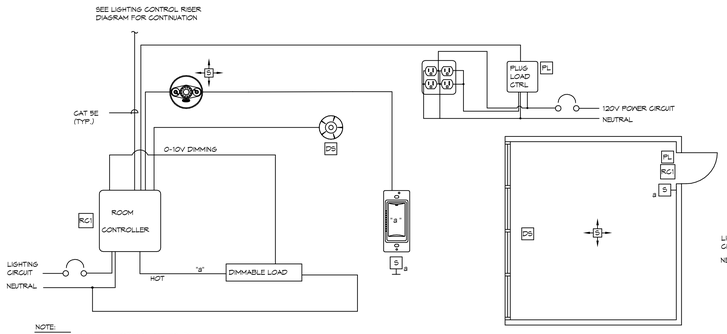


TYPICAL ROOM TYPE - KITCHEN/MPR STAGE

P

NO SCALE

9 E2.12

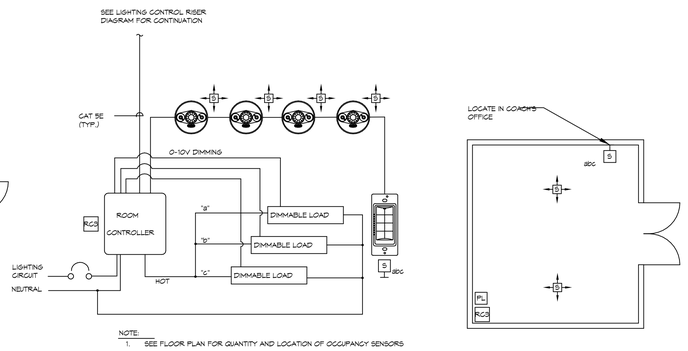


TYPICAL ROOM TYPE - OFFICE W/ 1 ZONE

J3

NO SCALE

4 E2.12



TYPICAL ROOM TYPE - L.R.

L1

NO SCALE

8 E2.12

SYMBOL LEGEND

S	WALL MOUNTED MANUAL ON AND OFF SWITCH +48" U.O.N.
S DT	WALL MOUNTED DUAL TECH MOTION SENSOR WITH MANUAL ON AND OFF 48" U.O.N.
S	CEILING MOUNTED MOTION SENSOR (DUAL TECHNOLOGY)
S	WALL MOUNTED MOTION SENSOR (DUAL TECH) +84" U.O.N.
RC1	SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH ONE DIMMING ZONE.
RC2	SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH TWO DIMMING ZONES.
RC3	SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH THREE DIMMING ZONES.
PL	PLUG LOAD CONTROLLER
DS	DAYLIGHT SENSOR
S 4S	4 SCENE DIMMING CONTROL STATION
S K	MANUAL ON AND OFF KEY SWITCH
S a	MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'a'
S ab	MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'a' & 'b'
S abc	MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'a' & 'b' & 'c'
S D abc	MAIN ENTRY MANUAL DIMMERS FOR ZONE 'a', 'b' & 'c'

GENERAL NOTES

1. REFERENCE SPECIFICATION SECTION 260923 DIGITAL LIGHTING CONTROL SYSTEM FOR ADDITIONAL SCOPE OF WORK.
2. ITEMS RC1 RC2 RC3 PL TO BE WALL MOUNTED ABOVE THE ROOM ENTRY DOOR, ABOVE THE CEILING IN ALL ROOMS WITH T-BAR CEILINGS.
3. ITEMS RC1 RC2 RC3 PL TO BE LOCATED WITHIN A 24" x 24" RECESSED ENCLOSURE WITH HINGED LOCKING COVER LOCATED ABOVE THE ROOM ENTRY DOOR IN ALL ROOMS WITH INACCESSIBLE CEILINGS.
4. ALL 0-10V WIRING AND CAT 5E WIRING MAY BE INSTALLED AS OPEN WIRE WHERE ABOVE ACCESSIBLE CEILINGS. WHERE ABOVE INACCESSIBLE OR EXPOSED CEILINGS IT SHALL BE INSTALLED IN CONDUIT.
5. WHERE CEILING HEIGHT EXCEED 11'-0" OR ROOM HAS EXPOSED S CEILING PROVIDE TYPE SENSOR MOUNTED ON WALL IN PLACE OF CEILING SENSOR.
6. REFERENCE 1/E2.9 FOR LIGHTING ON EMERGENCY SYSTEM.
7. LIGHTING IN CORRIDORS AND STAIRWELLS SHALL BE REDUCED BY AT LEAST 50% WHEN THE AREA IS UNOCCUPIED.

DEL MAR UNION SCHOOL DISTRICT
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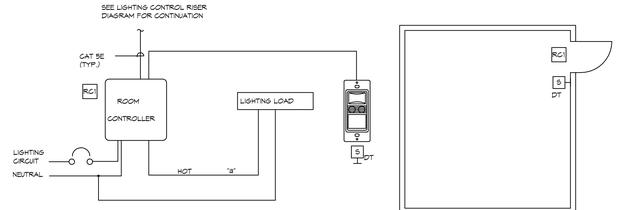
LIGHTING CONTROL DIAGRAMS

NO. DATE ISSUE

PROJECT NO: 19009
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DRAWING
E2.11

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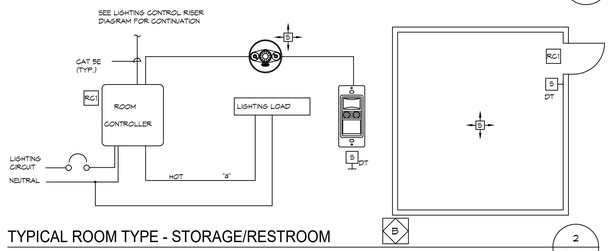


TYPICAL ROOM TYPE - STORAGE/RESTROOM

NO SCALE

A

1 E2.13

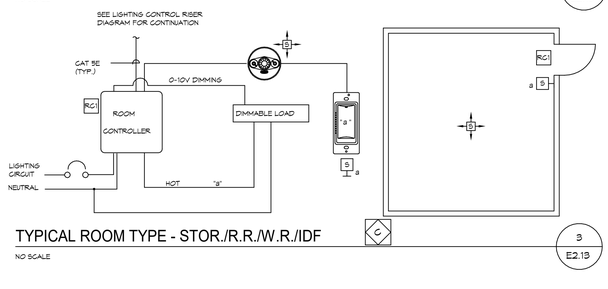


TYPICAL ROOM TYPE - STORAGE/RESTROOM

NO SCALE

B

2 E2.13

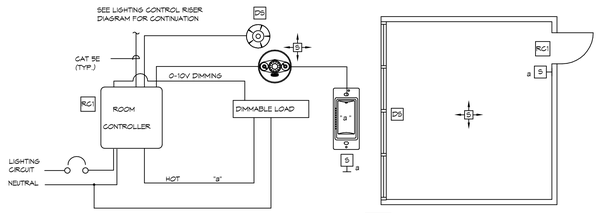


TYPICAL ROOM TYPE - STOR./R.R./W.R./IDF

NO SCALE

C

3 E2.13

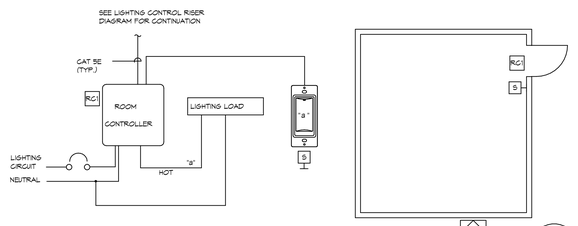


TYPICAL ROOM TYPE - SERVERY/SUPPORT

NO SCALE

C1

4 E2.13

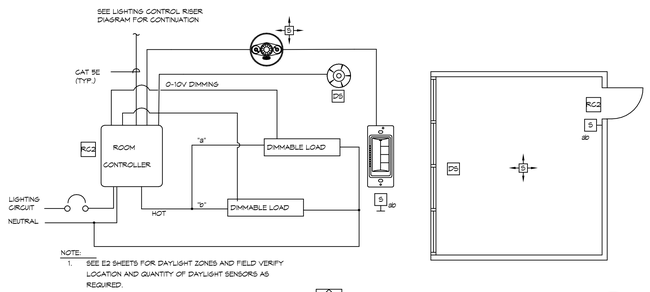


TYPICAL ROOM TYPE - ELECTRICAL/EQUIPMENT ROOM

NO SCALE

D

5 E2.13



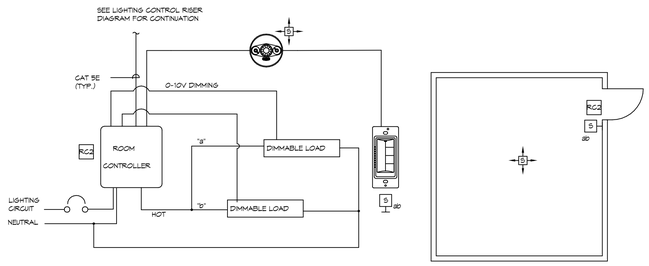
NOTE:
1. SEE E2 SHEETS FOR DAYLIGHT ZONES AND FIELD VERIFY LOCATION AND QUANTITY OF DAYLIGHT SENSORS AS REQUIRED.

TYPICAL ROOM TYPE - HEALTH

NO SCALE

E

6 E2.13

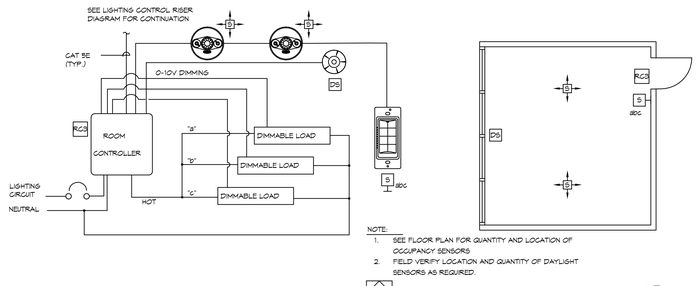


TYPICAL ROOM TYPE - LOUNGE / WORK ROOM

NO SCALE

E1

7 E2.13



NOTE:
1. SEE FLOOR PLAN FOR QUANTITY AND LOCATION OF OCCUPANCY SENSORS
2. FIELD VERIFY LOCATION AND QUANTITY OF DAYLIGHT SENSORS AS REQUIRED.

TYPICAL ROOM TYPE - LOUNGE/WORK ROOM

NO SCALE

F

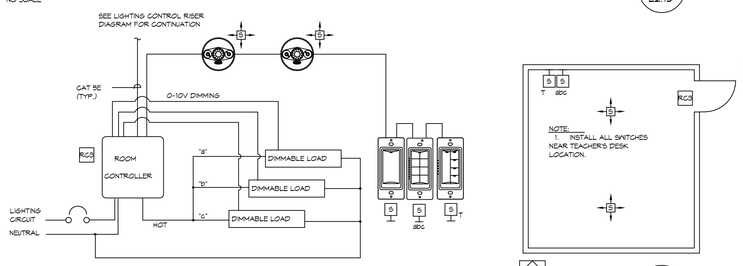
8 E2.13

TYPICAL ROOM TYPE - CLASSROOM

NO SCALE

G2

11 E2.13

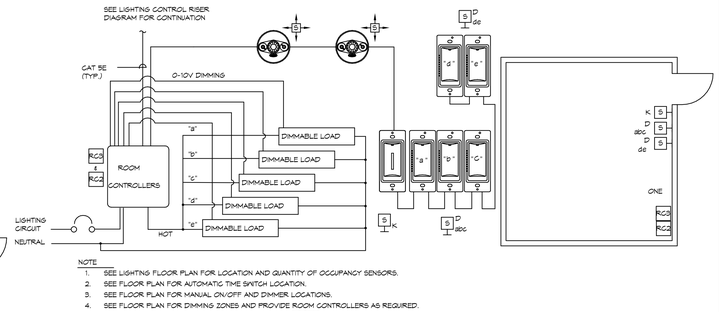


TYPICAL ROOM TYPE - CLASSROOM (W/O DAYLIGHT CONTROL)

NO SCALE

G1

10 E2.13

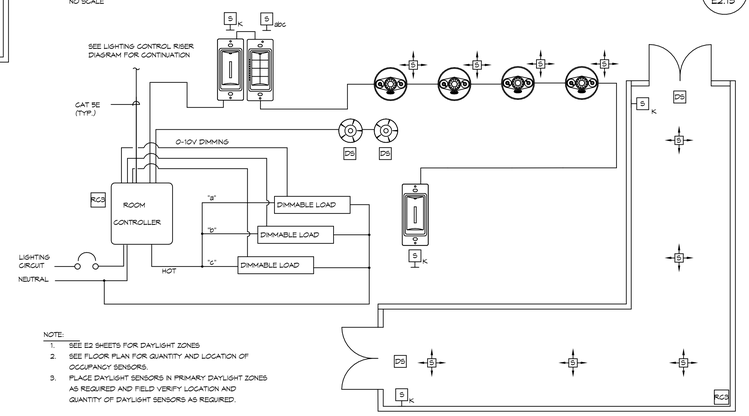


TYPICAL ROOM TYPE - MPR / GYM

NO SCALE

M

13 E2.13



NOTE:
1. SEE E2 SHEETS FOR DAYLIGHT ZONES
2. SEE FLOOR PLAN FOR QUANTITY AND LOCATION OF OCCUPANCY SENSORS.
3. PLACE DAYLIGHT SENSORS IN PRIMARY DAYLIGHT ZONES AS REQUIRED AND FIELD VERIFY LOCATION AND QUANTITY OF DAYLIGHT SENSORS AS REQUIRED.

TYPICAL ROOM TYPE - CORRIDOR

NO SCALE

N

14 E2.13

SYMBOL LEGEND

S	WALL MOUNTED MANUAL ON AND OFF SWITCH +48" U.O.N.
S DT	WALL MOUNTED DUAL TECH MOTION SENSOR WITH MANUAL ON AND OFF +48" U.O.N.
DS	CEILING MOUNTED MOTION SENSOR (DUAL TECHNOLOGY)
S	WALL MOUNTED MOTION SENSOR (DUAL TECH) +84" U.O.N.
RC1	SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH ONE DIMMING ZONE.
RC2	SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH TWO DIMMING ZONES.
RC3	SINGLE CIRCUIT ROOM CONTROLLER FOR ROOMS WITH THREE DIMMING ZONES.
PL	PLUG LOAD CONTROLLER
DS	DAYLIGHT SENSOR
S 4S	4 SCENE DIMMING CONTROL STATION
S K	MANUAL ON AND OFF KEY SWITCH
S a	MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'a'
S ab	MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'a' & 'b'
S abc	MAIN ENTRY MANUAL ON AND OFF WITH DIMMER FOR ZONE 'a' & 'b' & 'c'
S D abc	MAIN ENTRY MANUAL DIMMERS FOR ZONE 'a', 'b' & 'c'

GENERAL NOTES

1. REFERENCE SPECIFICATION SECTION 260923 DIGITAL LIGHTING CONTROL SYSTEM FOR ADDITIONAL SCOPE OF WORK.
2. ITEMS RC1 RC2 RC3 PL TO BE WALL MOUNTED ABOVE THE ROOM ENTRY DOOR, ABOVE THE CEILING IN ALL ROOMS WITH T-BAR CEILINGS.
3. ITEMS RC1 RC2 RC3 PL TO BE LOCATED WITHIN A 24" x 24" RECESSED ENCLOSURE WITH HINGED LOCKING COVER LOCATED ABOVE THE ROOM ENTRY DOOR IN ALL ROOMS WITH INACCESSIBLE CEILINGS.
4. ALL 0-10V WIRING AND CAT 5E WIRING MAY BE INSTALLED AS OPEN WIRE WHERE ABOVE ACCESSIBLE CEILINGS. WHERE ABOVE INACCESSIBLE OR EXPOSED CEILINGS IT SHALL BE INSTALLED IN CONDUIT.
5. WHERE CEILING HEIGHT EXCEED 11'-0" OR ROOM HAS EXPOSED S CEILING PROVIDE TYPE SENSOR MOUNTED ON WALL IN PLACE OF CEILING SENSOR.
6. REFERENCE 1 / E2.9 FOR LIGHTING ON EMERGENCY SYSTEM.
7. LIGHTING IN CORRIDORS AND STAIRWELLS SHALL BE REDUCED BY AT LEAST 50% WHEN THE AREA IS UNOCCUPIED.

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DEL MAR HEIGHTS SCHOOL

REGISTERED PROFESSIONAL ENGINEER
MARK RUSSELL REESE-HANSEN
NO.E 14781
Exp. 6-30-2019
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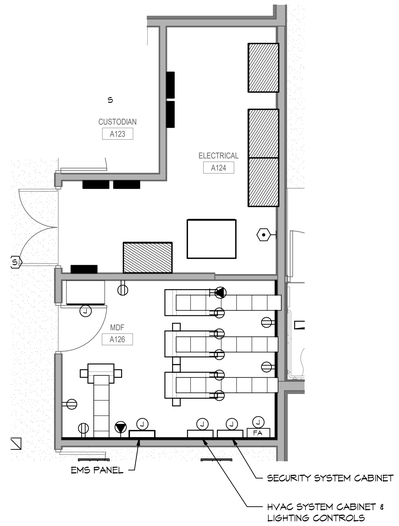
LIGHTING CONTROL DIAGRAMS

NO.	DATE	ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

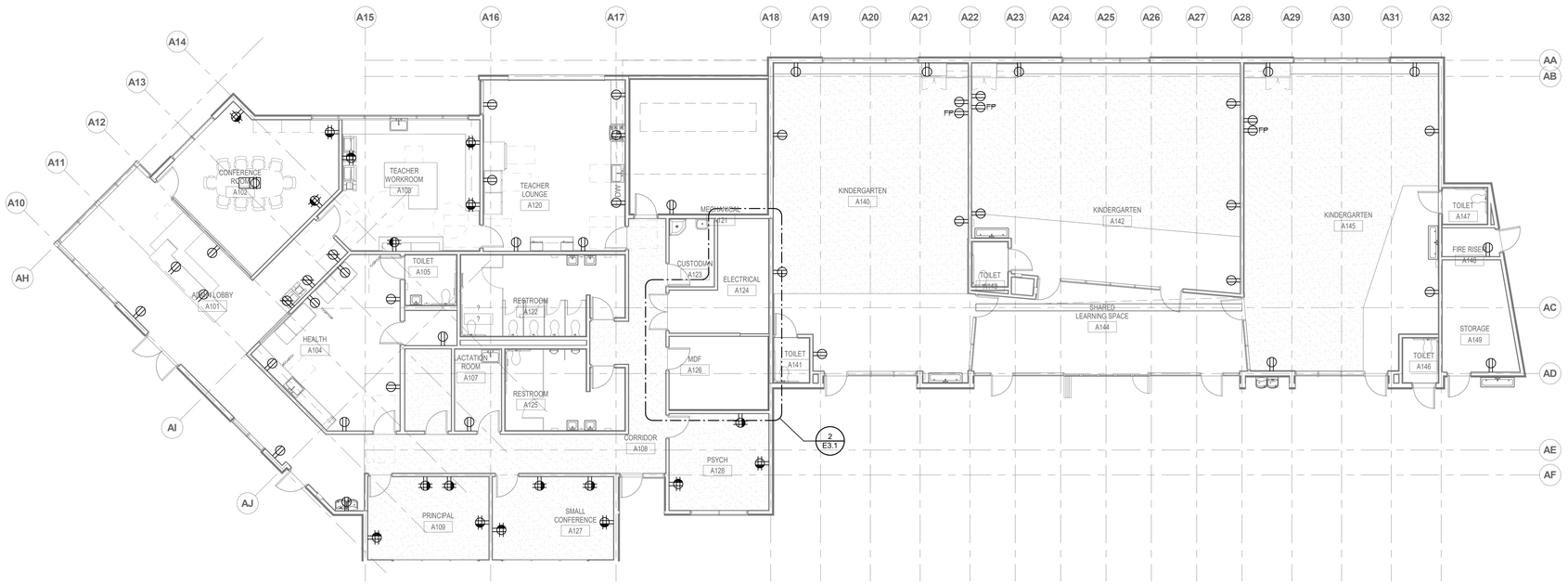
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E2.12

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2/14/2020 6:29:42 PM



2 E3.1 ENLARGED ELEC/MDF ROOM 120/121

1/4" = 1'-0"



1 FLOOR PLAN BLDG A - POWER

1/8" = 1'-0"

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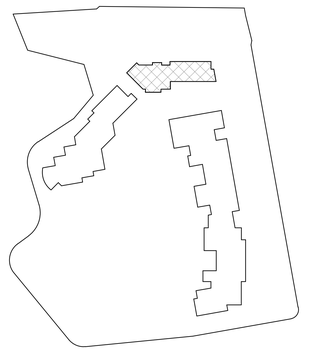
DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

GENERAL NOTES:

1. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED POWER DEVICES WHERE INDICATED AT MOUNTING HEIGHTS OTHER THAN +15".
2. REFERENCE SHEET E6 SERIES SHEETS FOR MECHANICAL EQUIPMENT SCHEDULE.
3. REFERENCE E3 AND E8 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
4. NUMBERS ADJACENT TO EACH POWER DEVICE INDICATES THE CIRCUIT NUMBER TO WHICH THE DEVICE IS TO BE CONNECTED.
5. CIRCUIT HOMERUNS ARE INDICATED TO SHOW THE LOCATION AND NUMBER OF CIRCUITS TO BE GROUPED TOGETHER.
6. PROVIDE MINIMUM 3/4" CONDUIT AND #12 CIRCUIT CONDUCTORS AS REQUIRED TO CONNECT EACH POWER DEVICE TO THEIR INDICATED CIRCUIT (U.O.N.).
7. FIELD VERIFY EXACT ROUTING LOCATION FOR CONCEALED CONDUITS AND RECEPTACLES PRIOR TO ROUGH-IN.

KEY NOTES:

1. FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
2. 2 #12 (HOT), 1 #10 (NEUTRAL), 1 #12 (GND), 3/4"C.
3. 3 #12 (HOT), 1 #10 (NEUTRAL), 1 #12 (GND), 3/4"C.
4. 4 #12 (HOT), 2 #10 (NEUTRAL), 1 #12 (GND), 3/4"C.
5. EXTEND CIRCUIT TO ALL FIRE SMOKE DAMPERS. SEE E5 SERIES FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS OF DAMPERS.



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MICHAEL GOESE-JAMES
NO. E 14781
Exp. 6-30-2021
ELECTRICAL
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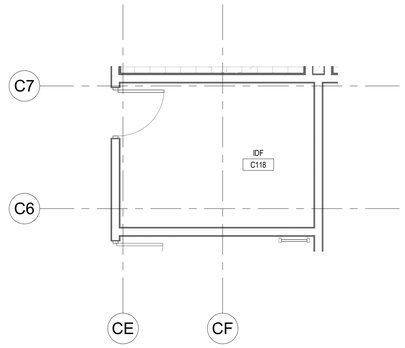
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www.bndesignstudio.com

FLOOR PLAN BLDG A - POWER

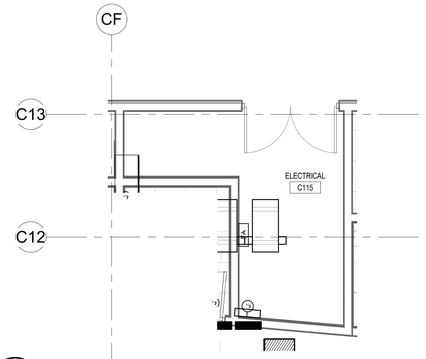
NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E3.1



2 E3.2 ENLARGED IDF ROOM C118
1/4" = 1'-0"



3 E3.2 ENLARGED ELECTRICAL ROOM C115
1/4" = 1'-0"



1 FLOOR PLAN BLDG C NORTH - POWER
1/8" = 1'-0"

BIM 360://19009-00 Del Mar Heights ES\ELEC-JCE-DMHS.rvt
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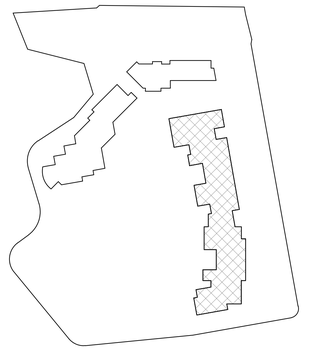
DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

GENERAL NOTES:

1. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED POWER DEVICES WHERE INDICATED AT MOUNTING HEIGHTS OTHER THAN +15".
2. REFERENCE SHEET E6 SERIES SHEETS FOR MECHANICAL EQUIPMENT SCHEDULE.
3. REFERENCE E3 AND E8 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
4. NUMBERS ADJACENT TO EACH POWER DEVICE INDICATES THE CIRCUIT NUMBER TO WHICH THE DEVICE IS TO BE CONNECTED.
5. CIRCUIT HOMERUNS ARE INDICATED TO SHOW THE LOCATION AND NUMBER OF CIRCUITS TO BE GROUPED TOGETHER.
6. PROVIDE MINIMUM 3/4" CONDUIT AND #12 CIRCUIT CONDUCTORS AS REQUIRED TO CONNECT EACH POWER DEVICE TO THEIR INDICATED CIRCUIT (U.O.N.).
7. FIELD VERIFY EXACT ROUTING LOCATION FOR CONCEALED CONDUITS AND RECEPTACLES PRIOR TO ROUGH-IN.

KEY NOTES:

1. FIELD VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
2. 2 #12 (HOT), 1 #10 (NEUTRAL), 1 #12 (GND), 3/4"C.
3. 3 #12 (HOT), 1 #10 (NEUTRAL), 1 #12 (GND), 3/4"C.
4. 4 #12 (HOT), 2 #10 (NEUTRAL), 1 #12 (GND), 3/4"C.
5. EXTEND CIRCUIT TO ALL FIRE SMOKE DAMPERS. SEE E5 SERIES FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS OF DAMPERS.



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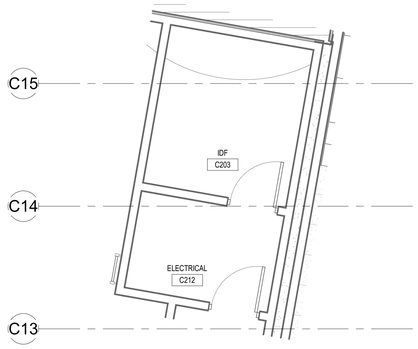
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FLOOR PLAN BLDG C
NORTH - POWER

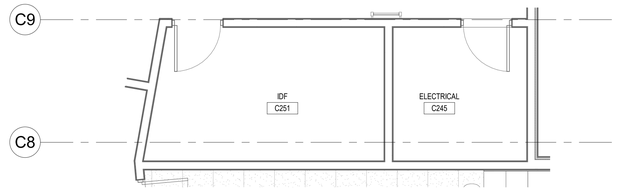
NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E3.2



2 E3.3 ENLARGED IDF C203 / ELECTRICAL C212
1/4" = 1'-0"



3 E3.3 ENLARGED IDF C251 / ELECTRICAL C245
1/4" = 1'-0"



1 FLOOR PLAN BLDG C SOUTH - POWER
1/8" = 1'-0"

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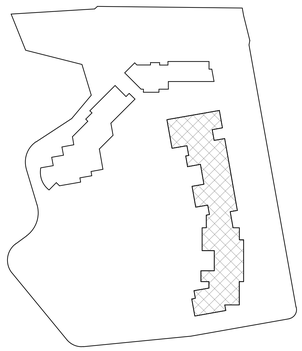
DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

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5. EXTEND CIRCUIT TO ALL FIRE SMOKE DAMPERS. SEE E5 SERIES FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS OF DAMPERS.



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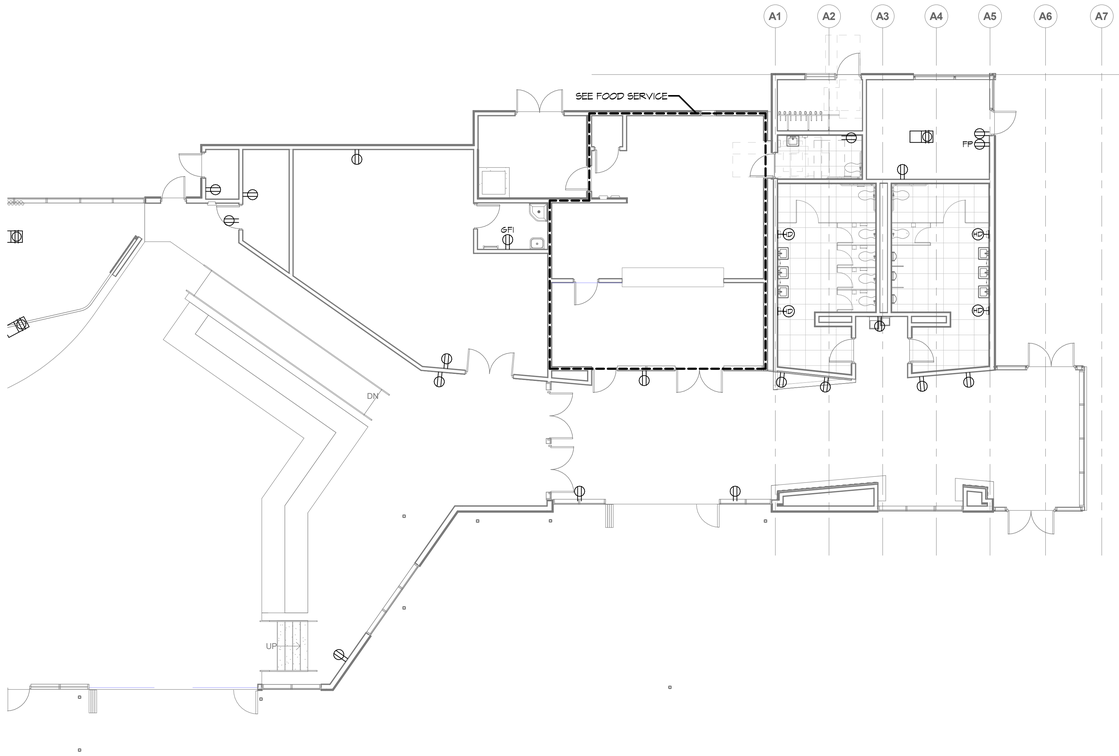
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FLOOR PLAN BLDG C
SOUTH - POWER

NO.	DATE	ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E3.3



1 FLOOR PLAN BLDG M EAST - POWER

1/8" = 1'-0"

DEL MAR UNION SCHOOL DISTRICT

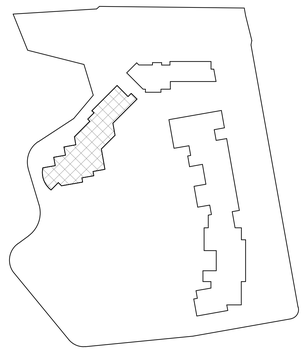
DEL MAR HEIGHTS SCHOOL

GENERAL NOTES:

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5. EXTEND CIRCUIT TO ALL FIRE SMOKE DAMPERS. SEE E5 SERIES FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS OF DAMPERS.



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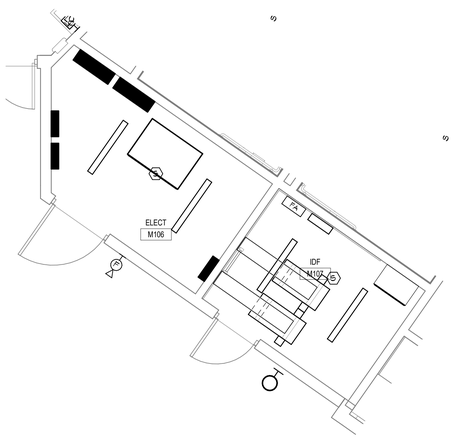
FLOOR PLAN BLDG M EAST - POWER

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E3.4

2/14/2020 6:29:55 PM
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2 E3.5 ENLARGED ELEC/IDF ROOM M105/M106

1/4" = 1'-0"



1 FLOOR PLAN BLDG M WEST - POWER

1/8" = 1'-0"

DEL MAR UNION SCHOOL DISTRICT

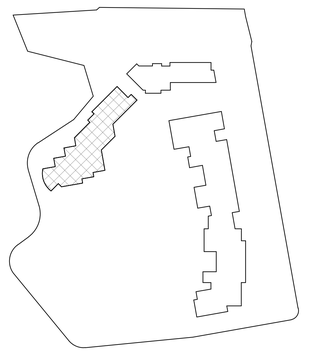
DEL MAR HEIGHTS SCHOOL

GENERAL NOTES:

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5. EXTEND CIRCUIT TO ALL FIRE SMOKE DAMPERS. SEE E5 SERIES FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS OF DAMPERS.



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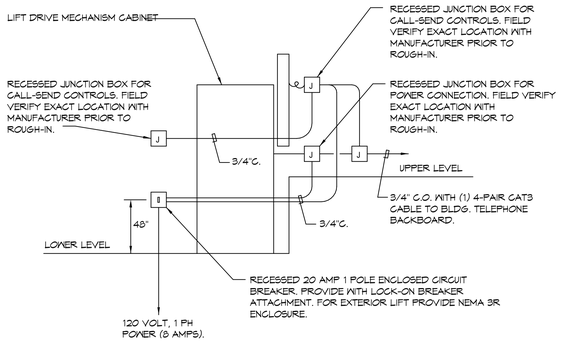
FLOOR PLAN BLDG M WEST - POWER

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E3.5

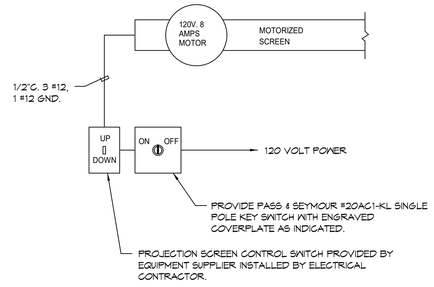
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2/14/2020 6:29:58 PM



NOTE:
ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER AND CONTROL WIRING BETWEEN ALL COMPONENTS NOTED ABOVE. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER.

WHEELCHAIR LIFT CONNECTION DETAIL
NO SCALE

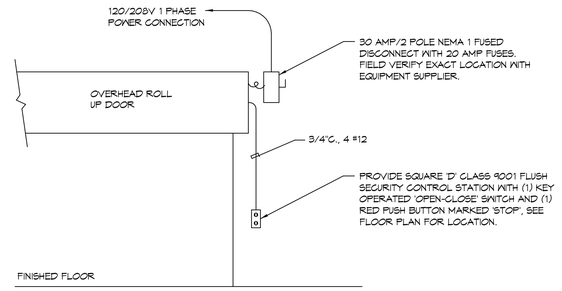
1 / E3.6



NOTE:
VERIFY EXACT INSTALLATION REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

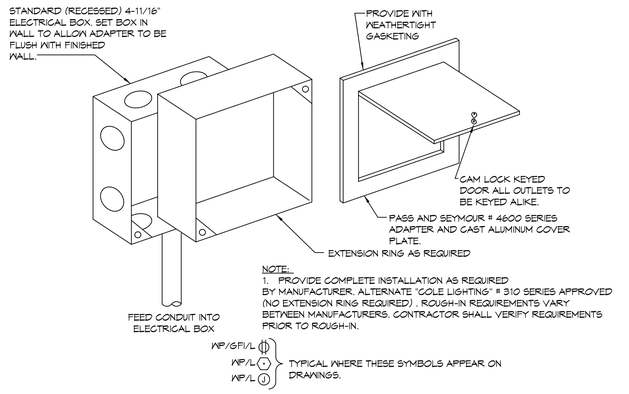
MOTORIZED SCREEN WIRING DIAGRAM
NO SCALE

2 / E3.6



ROLL-UP WIRING DIAGRAM
NO SCALE

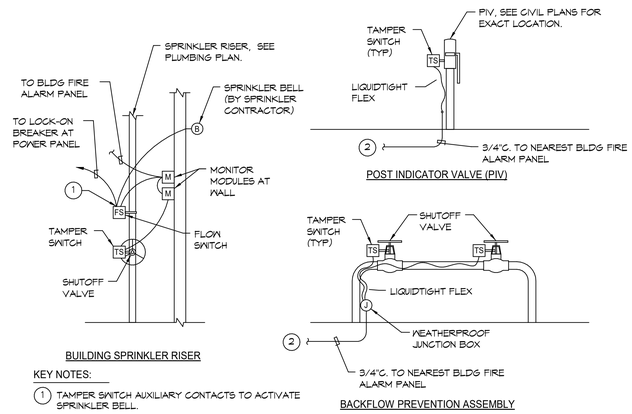
3 / E3.6



NOTE:
1. PROVIDE COMPLETE INSTALLATION AS REQUIRED BY MANUFACTURER. ALTERNATE "COLE LIGHTING" # 310 SERIES APPROVED (NO EXTENSION RING REQUIRED) . ROUGH-IN REQUIREMENTS VARY BETWEEN MANUFACTURERS. CONTRACTOR SHALL VERIFY REQUIREMENTS PRIOR TO ROUGH-IN.

TYPICAL WEATHERPROOF/LOCKING RECEPTACLE COVER
NO SCALE

4 / E3.6



KEY NOTES:

1. TAMPER SWITCH AUXILIARY CONTACTS TO ACTIVATE SPRINKLER BELL.
2. PROVIDE CONNECTION TO MONITOR MODULE LOCATED IN FIRE RISER ROOM OR ABOVE NEAREST ACCESSIBLE CEILING IN NEAREST BUILDING.

TYPICAL FIRE SPRINKLER SYSTEM CONNECTION DETAIL
NO SCALE

5 / E3.6

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

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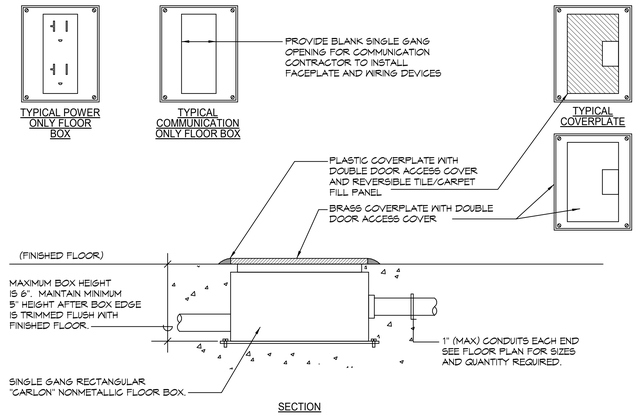
POWER DETAILS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E3.6

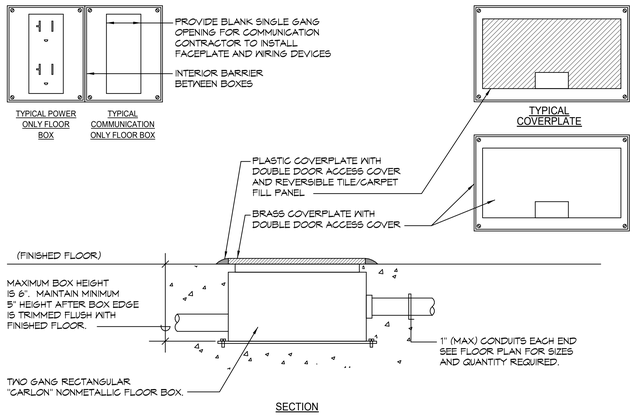
BIM 360://19009-00 Del Mar Heights ES/ELEC-JCE-DMHS.rvt
2/14/2020 6:29:59 PM



TYPICAL SINGLE GANG FLOOR BOX INSTALLATION

NO SCALE

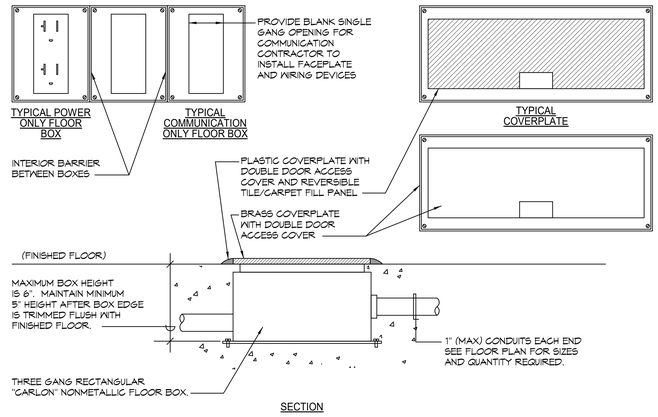
1 / E3.7



TYPICAL TWO GANG FLOOR BOX INSTALLATION

NO SCALE

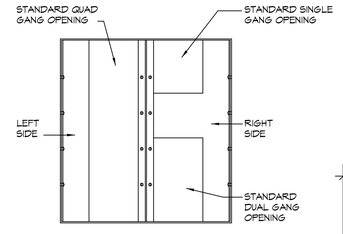
2 / E3.7

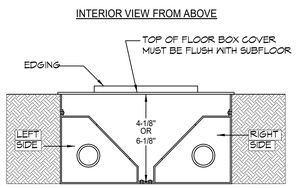


TYPICAL THREE GANG FLOOR BOX INSTALLATION

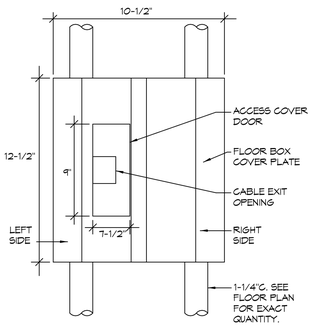
NO SCALE

3 / E3.7





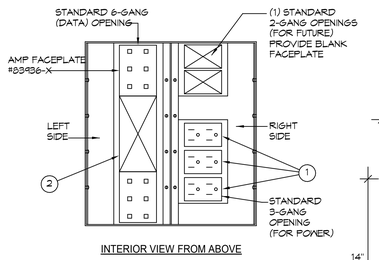
NOTES:
1. PROVIDE FSR INC. MODEL FL-500P FLOOR BOX 6" DEEP. SEE FLOOR PLAN FOR FLOOR BOX PLACEMENT.
2. FIELD VERIFY EDGING THICKNESS PRIOR TO INSTALLATION.

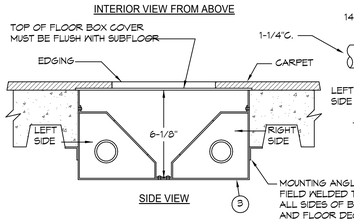


TYPICAL FLOOR BOX

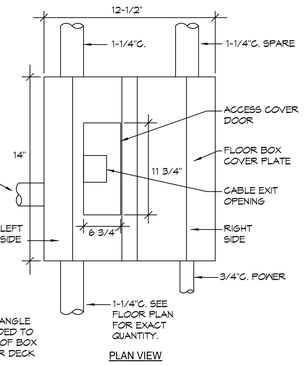
NO SCALE

4 / E3.7





NOTES:
1. PROVIDE FSR INC. MODEL FL-600P-BLP FLOOR BOX 6" DEEP. SEE FLOOR PLAN FOR FLOOR BOX PLACEMENT.
2. FIELD VERIFY EDGING THICKNESS PRIOR TO INSTALLATION.



KEY NOTES:

1. PROVIDE (3) DUPLEX RECEPTACLES, EACH CONNECTION TO DEDICATED CIRCUIT.
2. PROVIDE (2) 6-PORT DUAL GANG FACEPLATES. FIELD MODIFY DUAL GANG BLANK FACE PLATE TO COVER REMAINING OPENING.
3. FIELD MODIFY BOX TO PROVIDE (2) 1-1/4" BUSHED OPENINGS ON EACH SIDE INTO BOTTOM OF BOX.

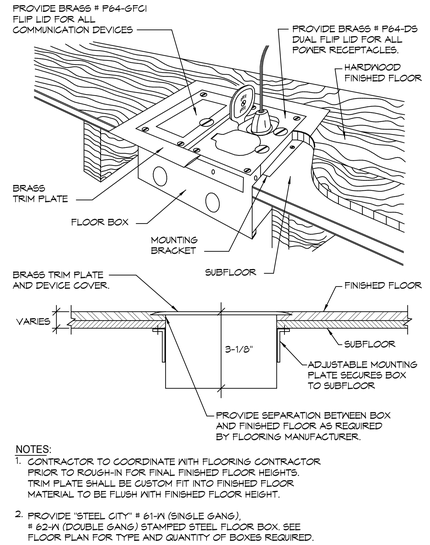
FSR:

PHONE NUMBER: (973) 785-4347

TYPICAL FLOOR BOX DETAIL

NO SCALE

5 / E3.7

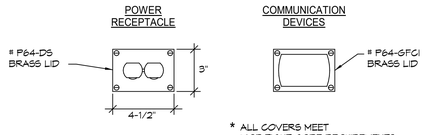


NOTES:
1. CONTRACTOR TO COORDINATE WITH FLOORING CONTRACTOR PRIOR TO ROUGH-IN FOR FINAL FINISHED FLOOR HEIGHTS. TRIM PLATE SHALL BE CUSTOM FIT INTO FINISHED FLOOR MATERIAL TO BE FLUSH WITH FINISHED FLOOR HEIGHT.
2. PROVIDE "STEEL CITY" # 61-Y (SINGLE GANG), # 62-Y (DOUBLE GANG) STAMPED STEEL FLOOR BOX. SEE FLOOR PLAN FOR TYPE AND QUANTITY OF BOXES REQUIRED.

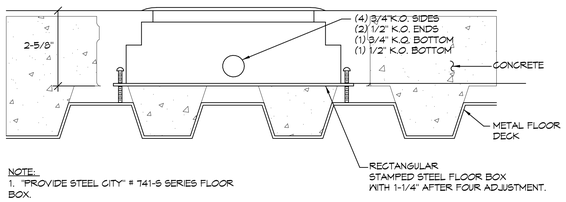
FLOOR BOX DETAIL

NO SCALE

6 / E3.7



* ALL COVERS MEET MOP TIGHT CODE REQUIREMENTS.



NOTE:
1. "PROVIDE STEEL CITY" # 741-S SERIES FLOOR BOX.

FLOOR BOX

NO SCALE

7 / E3.7

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

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REGISTERED PROFESSIONAL ENGINEER — MICHAEL GOESE-HANSEN — NO. E 14781 Exp. 6-30-2021 — ELECTRICAL — STATE OF CALIFORNIA

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POWER DETAILS

NO.	DATE	ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E3.7

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BACKBOX AND RING LEGEND

TYPE	DESCRIPTION
'B1'	4 11/16" square 2 1/8" deep box with single gang ring.
'B2'	4 11/16" square 2 1/8" deep box with dual gang ring.
'B3'	4" square 1 1/2" deep box with single gang ring.
'B4'	Single gang box, 2 1/8" deep.
'B5'	4-11/16" Square 3" deep box with dual gang ring.

'C1'	Provided by 27 10 00 contractor.
'C2'	Provided by 27 21 00 contractor.
'C3'	Provided by 27 20 00 contractor.
'C4'	Provided by 27 51 16 contractor.
'C5'	Provided by 28 13 00 contractor.
'C6'	Provided by 28 23 00 contractor.
'CT'	Provided by xx xx xx contractor.

FACEPLATE LEGEND

TYPE	DESCRIPTION
'AR'	As required to accommodate the number of ports designated.
'BP'	Blank faceplate.

'C1'	Provided by 27 10 00 contractor.
'C2'	Provided by 27 21 00 contractor.
'C3'	Provided by 27 20 00 contractor.
'C4'	Provided by 27 51 16 contractor.
'C5'	Provided by 28 13 00 contractor.
'C6'	Provided by 28 23 00 contractor.
'CT'	Provided by xx xx xx contractor.

CONDUIT / RACEWAY LEGEND

TYPE	DESCRIPTION
'3/4-S'	3/4" conduit stubbed from box into accessible ceiling space, unless detailed otherwise on drawings.
'1-S'	1" conduit stubbed from box into accessible ceiling space, unless detailed otherwise on drawings.
'11/4-S'	1 1/4" conduit stubbed from box into accessible ceiling space, unless detailed otherwise on drawings.

TECHNOLOGY SYMBOL LEGEND

SYMBOL	DESCRIPTION	BACKBOX & RING	FACE PLATE	CONDUIT / RACEWAY
	Single port data outlet, +18" A.F.F. (U.O.N.)	Type 'B1'	Type 'AR'	Type '1-S'
2P	Dual port data outlet, +18" A.F.F. (U.O.N.)	Type 'B1'	Type 'AR'	Type '1-S'
3P	Triple port data outlet, +18" A.F.F. (U.O.N.)	Type 'B1'	Type 'AR'	Type '1-S'
4P	Quad port data outlet, +18" A.F.F. (U.O.N.)	Type 'B1'	Type 'AR'	Type '1-S'
1V	Single port data outlet with single port voice outlet, +18" A.F.F. (U.O.N.)	Type 'B1'	Type 'AR'	Type '1-S'
2P 1V	Dual port data outlet with single port voice outlet, +18" A.F.F. (U.O.N.)	Type 'B1'	Type 'AR'	Type '1-S'
2P 2V	Dual port data outlet with dual port voice outlet, +18" A.F.F. (U.O.N.)	Type 'B1'	Type 'AR'	Type '1-S'
3P 1V	Triple port data outlet with single port voice outlet, +18" A.F.F. (U.O.N.)	Type 'B1'	Type 'AR'	Type '1-S'
2P 1V	Local origination with dual port data (D) and single port voice (V) outlet, + 18" A.F.F. (U.O.N.)	Type 'B1' (D/V) Type 'B5' (LO) side by side. (1)	Type 'AR' (D/V) Type 'C3' (LO)	Type '1-S' (D/V) Type '11/4-S' (LO)
3P 1V	Local origination with triple port data (D) and single port voice (V) outlet, +18" A.F.F. (U.O.N.)	Type 'B1' (D/V) Type 'B5' (LO) side by side. (1)	Type 'AR' (D/V) Type 'C3' (LO)	Type '1-S' (D/V) Type '11/4-S' (LO)
	Same device as required on legend, mounted +6" above backsplash (U.O.N.)	Same as required for device indicated on legend.	Same as required for device indicated on legend.	Same as required for device indicated on legend.
S	Same device as required on legend, except surface mounted box.	Same as required for device indicated on legend.	Same as required for device indicated on legend.	Same as required for device indicated on legend.
	Same device as required on legend, except in floor box.	Floorbox per E3 series drawings.	Same as required for device indicated on legend.	Same as required for device indicated on legend.
2P LCD	Dual port data outlet, mounted in ceiling at projector location.	Type 'B1' Provide Box with Ceiling Grid Hangar.	Type 'AR'	Type '1-S' Not required in accessible ceiling.
2P LCD	Dual port data outlet, wall mounted at projector location. Mount next to projector. See floor plans.	Type 'B1'	Type 'C2' or 'C3' (3)	Type '1-S'
2P AV	Dual port data outlet for Audio-Visual equipment in accessible ceiling.	Type 'B1' Provide Box with Ceiling Grid Hangar.	Type 'C1'	Type '3/4-S'
2P AV	Dual port data outlet for Audio-Visual Equipment, Wall mounted. See AV Details for outlet location.	Type 'B1'	Type 'C1'	Type '3/4-S'
LCD	Ceiling Mounted Projector Location.	Type 'B1' Provide Box with Ceiling Grid Hangar.	Type 'C3'	Type '1-S' Not require in accessible ceiling.
LCD	Wall Mounted Projector Location. Height as shown on floor plans or drawing details.	Type 'B1'	Type 'C3'	Type '1 1/4-S'
LCD (3)	Ultra-Short Throw or Short Throw Projector Location. Height shown in detail drawings.	Type 'B1' See Detail	Type 'C2' or 'C3' (3)	Type '1 1/4-S'
S	Ceiling Mounted Audio-Visual System Speaker.	Type 'C3'	Type 'C3'	Type '3/4-S' Not required in accessible ceiling.
S	Wall Mounted Audio-Visual System Speaker @+8'-0" AFF (U.O.N.)	Type 'B1'	Type 'C3'	Type '3/4-S'
AP 2P	Dual port data outlet at wireless access point location mounted in accessible ceiling (U.O.N.)	See detail	Type 'C1'	Not required in accessible ceiling.
AP 2P	Dual port data outlet at wireless access point wall mounted @+8'-0" AFF (U.O.N.)	See detail	Type 'C1'	Type '3/4-S'
AP D (2)	Dual port data outlet for exterior WAP Location. Access Point to be installed on interior of building. Antenna to be installed on exterior of building. Antenna Type: NO LETTER=Omni-Directional D=Directional	See Details	See Details (2)	Type '1-S' Not required in accessible ceiling.
LC (3)	Audio-Visual Control Panel with single port data outlet @+45" AFF (U.O.N.). Refer to Drawing Details.	See Detail	Type 'C2' or 'C3' (3)	Type '1-S'
FP	Dual port data outlet for Flat Panel Location with Audio-Visual Connections. Height per details.	Type 'B1' (Data) Type 'B2' (A/V)	Type 'C1' (Data) Type 'C3' (A/V)	Type '3/4-S' (Data) Type '1-S' (A/V)
AV (3)	Ceiling Mounted Audio-Visual Enclosure.	Not required in accessible ceiling.	Type 'C2' or 'C3' (3)	Not required in accessible ceiling.
AV (3)	Wall Mounted Audio-Visual Enclosure @ +7'-0" AFF (Unless Otherwise Shown in Drawing Details)	See Detail	See Detail	See Detail

COMMUNICATION / SECURITY SYMBOL LEGEND

SYMBOL	DESCRIPTION	BACKBOX & RING	FACE PLATE	CONDUIT / RACEWAY
W	Telephone outlet with staff type phone, +18" A.F.F. (U.O.N.) (W indicates wall mount at +48" A.F.F.) Height per detail 1/E1.0	Type 'B3'	Type 'C1'	Type '3/4-S'
W	Telephone outlet with classroom type phone, +18" A.F.F. (U.O.N.) (W indicates wall mount at +48" A.F.F.) Height per detail 1/E1.0	Type 'B3'	Type 'C1'	Type '3/4-S'
FM	Direct Phone Trunk outlet, +18" A.F.F. (U.O.N.) (W indicates wall mount at +48" A.F.F.)	Type 'B3'	Type 'C1'	Type '3/4-S'
	Telephone outlet in floorbox.	Floorbox per E3 series drawings	Type 'C1'	Type '3/4-S'
IP	Analog Intercom Speaker recessed in ceiling. IP=Addressable Digital Speaker	Type 'C4' (4)	Type 'C4' (4)	Type '3/4-S'
IP	Analog Intercom Speaker, recessed in wall, +8'-0" A.F.F (U.O.N.) IP=Adressable Digital Speaker	Type 'C4', installed by electrical contractor. (5)	Type 'C4' IP=Type 'C1'	Type '3/4-S'
IP	Analog Intercom Speaker, surface mount on interior wall, +8'-0" A.F.F (U.O.N.) IP=Adressable Digital Speaker	Type 'B3' (3)	Type 'C4' IP=Type 'C1' (4)	Type '3/4-S'
A IP	Analog Intercom Horn recessed in exterior wall @ +8'-0" AFF (U.O.N.) A=Page Zone IP=Addressable Digital Horn	Type 'C4', installed by electrical contractor. (5)	Type 'C4' IP=Type 'C1'	Type '3/4-S'
V	Volume control for intercom system, mounted at +48" A.F.F. (U.O.N.) Height per detail 1/E1.0	Type 'B3'	Type 'C4' IP Speaker='C1'	Type '3/4-S'
NG	Clock wall mounted at, +8'-0" A.F.F (U.O.N.). (NG indicates wireguard)	Not required.	Not required.	Not required.
IP NG	Analog Clock/Speaker combination wall mounted at, +8'-0" A.F.F (U.O.N.). (NG indicates wireguard) IP=Addressable Digital Clock/Speaker combination	Type 'C4' (4)	Type 'C4' (4)	Type '3/4-S'
A	Sound system speaker, recessed in wall, +10'-0" A.F.F (U.O.N.) A= speaker type, see specifications for complete descriptions.	Type 'C3', installed by electrical contractor.	Type 'C3'	Type '1-S'
A	Sound system speaker wall mounted, height per plans (U.O.N.). ('A' equals speaker type, see specifications for complete description)	Type 'B1'	Type 'C3'	Type '1-S'
A	Sound system speaker ceiling mounted, ('A' equals speaker type, see specifications for complete description)	Type 'C3'	Type 'C3'	Type '1-S'
MP 2	Microphone outlet wall mounted at +18" A.F.F.(U.O.N.). Number indicates quantity of outlets. 'MP' indicates weatherproof enclosure.	Type 'B1'	Type 'C3'	Type '1-S'
F 2	Same device as required on legend, except in floor box. Number indicates quantity of outlets.	Floorbox per E3 series drawings.	Same as required for device indicated on legend.	Same as required for device indicated on legend.
C 2	Same device as required on legend, except mounted in ceiling. Number indicates quantity of outlets.	Same as required for device indicated on legend.	Same as required for device indicated on legend.	Same as required for device indicated on legend.
K	Security keypad wall mounted at +48" A.F.F (U.O.N.) Height per detail 1/E1.0	Type 'B2'	Type 'C5'	Type '3/4-S'
	Security motion sensor ceiling mounted.	Type 'B3'	Type 'C5'	Type '3/4-S'
	Security motion sensor wall mounted at 6" below ceiling, or +10'-0" A.F.F. (U.O.N. whichever is lower.	Type 'B3'	Type 'C5'	Type '3/4-S'
	Security door contact.	Type 'B3'	Type 'C5'	Type '3/4-S'
(6) C IP	Surveillance camera, exterior type. Height as shown on floor plans IP=Addressable Digital Camera	Type 'B1'	Type 'C6' (Weathertight)	Type '1-S'
(6) C IP	Surveillance camera, interior type mounted 6" below ceiling or +10'-0" whichever is lower (U.O.N.) IP=Addressable Digital Camera	Type 'B1'	Type 'C6'	Type '1-S'
(6) C IP	Surveillance camera, interior type mounted in ceiling. IP=Addressable Digital Camera	Type 'B2'	Type 'C6'	Type '1-S'
R	Access control card reader. Refer to details on E4 series sheets for additional information.	See details on E4 Series Sheets	See details on E4 Series Sheets	See details on E4 Series Sheets
J	Junction Box in ceiling for access controls at door. Refer to details on E4 Series sheets for additional information.	See details on E4 Series Sheets	See details on E4 Series Sheets	See details for conduit requirements for all door types.
A	Camera Schedule Designator. See detail sheets for camera schedule.	N/A	N/A	N/A
J	J-Box for Future Low-Voltage Devices @+18" AFF (U.O.N.)	Type 'B1'	Blank Plate Color to Match	Type '1-S'
	Conduit sleeve through wall, above accessible ceiling.	Not required.	Not required.	(1) 3"C, for open low voltage wiring.
2"C	Conduit sleeve through wall, above accessible ceiling.	Not required.	Not required.	(1) Conduit for open low voltage wiring, size as indicated.
(2) 2"C	Conduit sleeve through wall, above accessible ceiling.	Not required.	Not required.	Multiple Conduits for open low voltage wiring, size and quantity as indicated.
	Conduit stubbed above accessible ceiling.	Not required.	Not required.	Conduit for open low voltage wiring. Refer to legend for size.
1 1/2"C	Conduit stubbed above accessible ceiling.	Not required.	Not required.	(1) conduit for open low voltage wiring. size as indicated.
(2) 1"C	Conduit stubbed above accessible ceiling.	Not required.	Not required.	Conduit for open low voltage wiring. size and quantity as indicated.

GENERAL NOTES:

1. ALL CONDUITS WHICH ARE REQUIRED AS A PART OF SYSTEMS SPECIFIED FOR COMMUNICATIONS, TELEPHONE, INTERCOM, CLOCK FIRE ALARM, SECURITY, SOUND SYSTEMS, DATA NETWORKING, OR AUDIO-VISUAL SYSTEMS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT REQUIREMENTS WITH EACH SYSTEM SUPPLIER PRIOR TO BID TO DETERMINE SPECIAL CONDUIT SYSTEM REQUIREMENTS.
3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT SLEEVES FOR ALL OPEN CABLE INSTALLATIONS THROUGH RATED WALLS, BLOCK WALLS AND WHERE SHOWN ON THE DRAWINGS. PROVIDE CONDUIT FROM EACH BUILDING MAIN TERMINATION CABINET OR BACKBOARD TO THE NEAREST ACCESSIBLE CEILING FOR ACCESS INTO ALL ELECTRICAL OR COMMUNICATIONS ROOMS.
4. ALL CONDUIT, BOXES, AND RINGS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
5. ALL BLANK PLATES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. (UNLESS OTHERWISE NOTED)
6. ALL CONDUITS SHALL BE FURNISHED WITH PULL STRINGS BY ELECTRICAL CONTRACTOR. COMMUNICATION CONTRACTOR TO PROVIDE POLYARMIO PULL TAPE WITH NEW CABLING INTO ALL CONDUITS BETWEEN BUILDINGS. SEE SPECIFICATIONS FOR REQUIREMENTS.
7. CONTRACTOR TO REVIEW ARCHITECTURAL CEILING PLANS TO DETERMINE LOCATIONS OF ACCESSIBLE CEILINGS PRIOR TO BID.
8. (271000) NUMBERS INDICATE MATCHING SPECIFICATION SECTION RESPONSIBLE FOR THIS WORK.
9. IN ADDITION TO THE ABOVE REQUIREMENTS, THE FOLLOWING REQUIREMENTS SHALL APPLY TO ALL DATA/VOICE, PAGING, AUDIO-VISUAL, SECURITY AND CLOCK CONDUITS:
10. FLEXIBLE METAL CONDUIT MAY BE USED ONLY WHERE REQUIRED AT BUILDING SEISMIC AND/OR EXPANSION JOINTS.
11. ALL UNDERGROUND CONDUITS SHALL BE PROVIDED WITH MINIMUM 24" RADIUS ELBOWS.
12. NO LENGTH OF CONDUIT SHALL BE INSTALLED TO EXCEED 150 FEET BETWEEN PULL BOXES, OR POINTS OF CONNECTION, UNLESS WHERE SPECIFICALLY DETAILED ON THE DRAWINGS.
13. NO LENGTH OF CONDUIT SHALL BE INSTALLED TO EXCEED TWO 90 DEGREE BENDS BETWEEN PULL BOXES, OR POINTS OF CONNECTION, UNLESS WHERE SPECIFICALLY DETAILED ON THE DRAWINGS.

KEY NOTES:

1. JUNCTION BOXES FOR VOICE/DATA AND AUDIO-VISUAL CONNECTIONS MUST BE SEPARATE. AUDIO-VISUAL JUNCTION BOX OR BOXES SHALL BE FURNISHED AS SHOWN IN THE DRAWING DETAILS. PROVIDE (1) OR (2) TYPE 'B2' PER DETAILS.
2. DATA CABLING AND FACEPLATE FOR SYMBOL FURNISHED AND INSTALLED BY 271000 CONTRACTOR.
3. SEE SPECIFICATIONS FOR CLARIFICATION OF WHICH LOCATIONS OF PROJECTORS WILL APPLY TO EITHER 272000 OR 272100 CONTRACTORS. ULTRA-SHORT AND SHORT THROW PROJECTORS MAY APPEAR IN BOTH SECTIONS.
4. IP ADDRESSABLE SPEAKER BACKBOX AND DEVICE TO BE FURNISHED AND INSTALLED BY 271000 CONTRACTOR.
5. IP ADDRESSABLE SPEAKER OR HORN BACKBOX AND DEVICE TO BE FURNISHED BY 271000 CONTRACTOR. BACKBOX TO BE INSTALLED BY THE DIVISION 26 CONTRACTOR.
6. IP DIGITAL CAMERA LOCATIONS SHALL BE FURNISHED WITH (2) DATA CABLES TERMINATED ON SURFACE MOUNT JACK INSTALLED IN JUNCTION BOX. DATA CONNECTIONS FURNISHED AND INSTALLED BY 271000 CONTRACTOR. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

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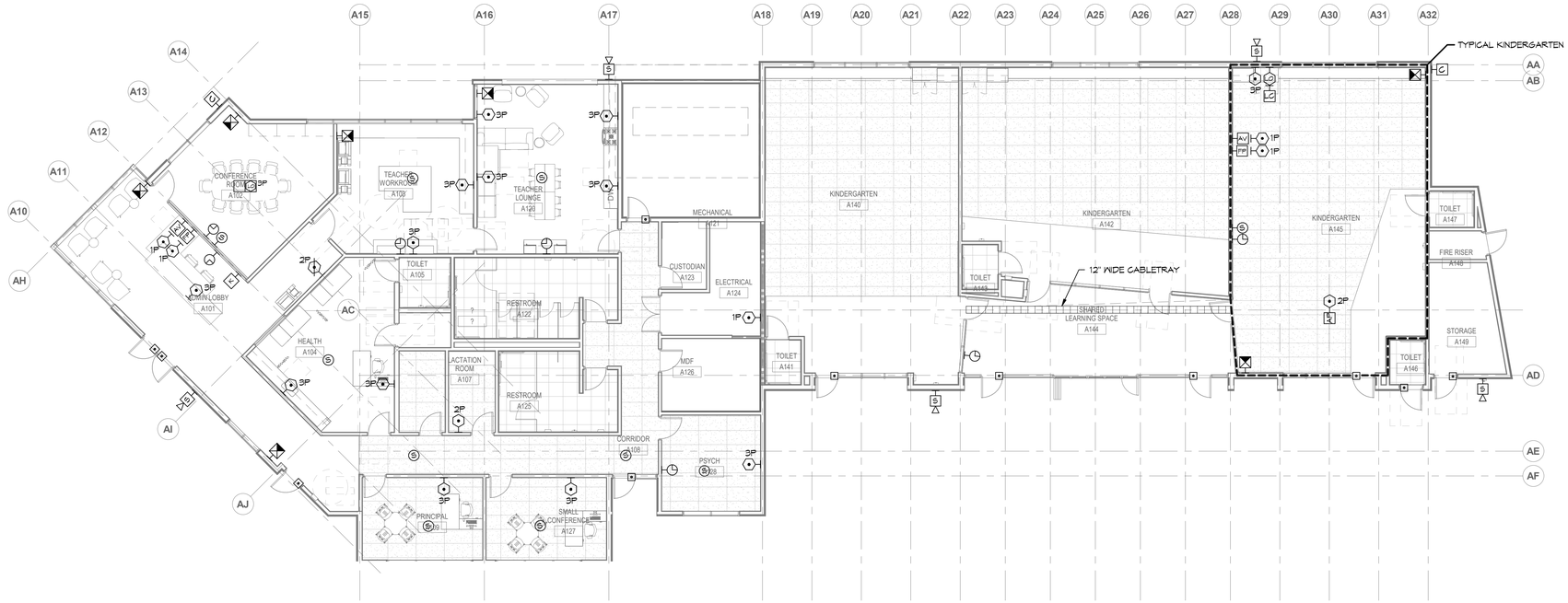
COMMUNICATION LEGEND & NOTES

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E4.0

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1 FLOOR PLAN BLDG A - COMMUNICATIONS

1/8" = 1'-0"

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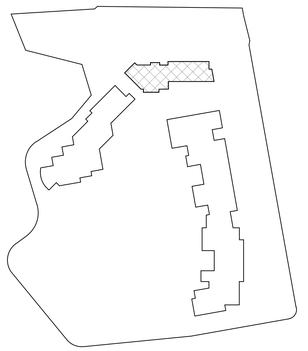
DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

GENERAL NOTES:

1. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED DEVICES.
2. REFERENCE E4 AND E5 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
3. REFERENCE E4 SERIES SHEETS FOR TYPICAL COMMUNICATION SYSTEMS RISER DIAGRAM.
4. REFERENCE RISER DIAGRAMS FOR TYPICAL CONDUIT SIZES AND ROUTINGS.
5. LOCATION OF PROJECTOR AND OTHER AUDIO-VISUAL EQUIPMENT IS DIAGRAMMATICAL. EXACT LOCATION OF EQUIPMENT TO BE FIELD VERIFIED PRIOR TO INSTALLATION. LOCATION OF PROJECTOR AND PROJECTOR MOUNT TO BE COORDINATED WITH LOCATION OF SCREEN.
6. REFER TO AUDIO-VISUAL SYSTEM DIAGRAMS FOR ADDITIONAL REQUIREMENTS, FOR JUNCTION BOX LOCATIONS, TYPES AND SIZES.

KEY NOTES:

1. 3/4"C. TO BUILDING COMMUNICATIONS CABINET.
2. 1"C. TO BUILDING COMMUNICATIONS CABINET.
3. 1 1/4"C. TO BUILDING COMMUNICATIONS CABINET.
4. 3/4"C. TO BUILDING 'IDF' LOCATION.
5. 1"C. TO BUILDING 'IDF' LOCATION.
6. 1 1/4"C. TO BUILDING 'IDF' LOCATION.
7. 3/4"C. TO SOUND SYSTEM EQUIPMENT RACK.
8. 1"C. TO SOUND SYSTEM EQUIPMENT RACK.
9. 1 1/4"C. TO SOUND SYSTEM EQUIPMENT RACK.



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FLOOR PLAN BLDG A - COMMUNICATIONS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E4.1



1 FLOOR PLAN BLDG C NORTH - COMMUNICATIONS
1/8" = 1'-0"

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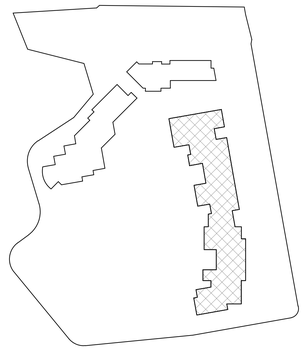
DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

GENERAL NOTES:

1. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED DEVICES.
2. REFERENCE E4 AND E6 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
3. REFERENCE E4 SERIES SHEETS FOR TYPICAL COMMUNICATION SYSTEMS RISER DIAGRAM.
4. REFERENCE RISER DIAGRAMS FOR TYPICAL CONDUIT SIZES AND ROUTINGS.
5. LOCATION OF PROJECTOR AND OTHER AUDIO-VISUAL EQUIPMENT IS DIAGRAMMATICAL. EXACT LOCATION OF EQUIPMENT TO BE FIELD VERIFIED PRIOR TO INSTALLATION. LOCATION OF PROJECTOR AND PROJECTOR MOUNT TO BE COORDINATED WITH LOCATION OF SCREEN.
6. REFER TO AUDIO-VISUAL SYSTEM DIAGRAMS FOR ADDITIONAL REQUIREMENTS, FOR JUNCTION BOX LOCATIONS, TYPES AND SIZES.

KEY NOTES:

1. 3/4"C. TO BUILDING COMMUNICATIONS CABINET.
2. 1"C. TO BUILDING COMMUNICATIONS CABINET.
3. 1 1/4"C. TO BUILDING COMMUNICATIONS CABINET.
4. 3/4"C. TO BUILDING 'IDF' LOCATION.
5. 1"C. TO BUILDING 'IDF' LOCATION.
6. 1 1/4"C. TO BUILDING 'IDF' LOCATION.
7. 3/4"C. TO SOUND SYSTEM EQUIPMENT RACK.
8. 1"C. TO SOUND SYSTEM EQUIPMENT RACK.
9. 1 1/4"C. TO SOUND SYSTEM EQUIPMENT RACK.



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FLOOR PLAN BLDG C
NORTH - COMMUNICATIONS

NO.	DATE	ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E4.2



1 FLOOR PLAN BLDG C SOUTH - COMMUNICATIONS

1/8" = 1'-0"

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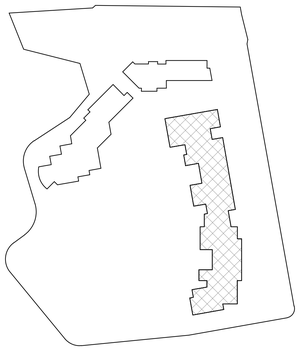
DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

GENERAL NOTES:

1. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED DEVICES.
2. REFERENCE E4 AND E5 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
3. REFERENCE E4 SERIES SHEETS FOR TYPICAL COMMUNICATION SYSTEMS RISER DIAGRAM.
4. REFERENCE RISER DIAGRAMS FOR TYPICAL CONDUIT SIZES AND ROUTINGS.
5. LOCATION OF PROJECTOR AND OTHER AUDIO-VISUAL EQUIPMENT IS DIAGRAMMATICAL. EXACT LOCATION OF EQUIPMENT TO BE FIELD VERIFIED PRIOR TO INSTALLATION. LOCATION OF PROJECTOR AND PROJECTOR MOUNT TO BE COORDINATED WITH LOCATION OF SCREEN.
6. REFER TO AUDIO-VISUAL SYSTEM DIAGRAMS FOR ADDITIONAL REQUIREMENTS, FOR JUNCTION BOX LOCATIONS, TYPES AND SIZES.

KEY NOTES:

1. 3/4"C. TO BUILDING COMMUNICATIONS CABINET.
2. 1"C. TO BUILDING COMMUNICATIONS CABINET.
3. 1 1/4"C. TO BUILDING COMMUNICATIONS CABINET.
4. 3/4"C. TO BUILDING 'IDF' LOCATION.
5. 1"C. TO BUILDING 'IDF' LOCATION.
6. 1 1/4"C. TO BUILDING 'IDF' LOCATION.
7. 3/4"C. TO SOUND SYSTEM EQUIPMENT RACK.
8. 1"C. TO SOUND SYSTEM EQUIPMENT RACK.
9. 1 1/4"C. TO SOUND SYSTEM EQUIPMENT RACK.



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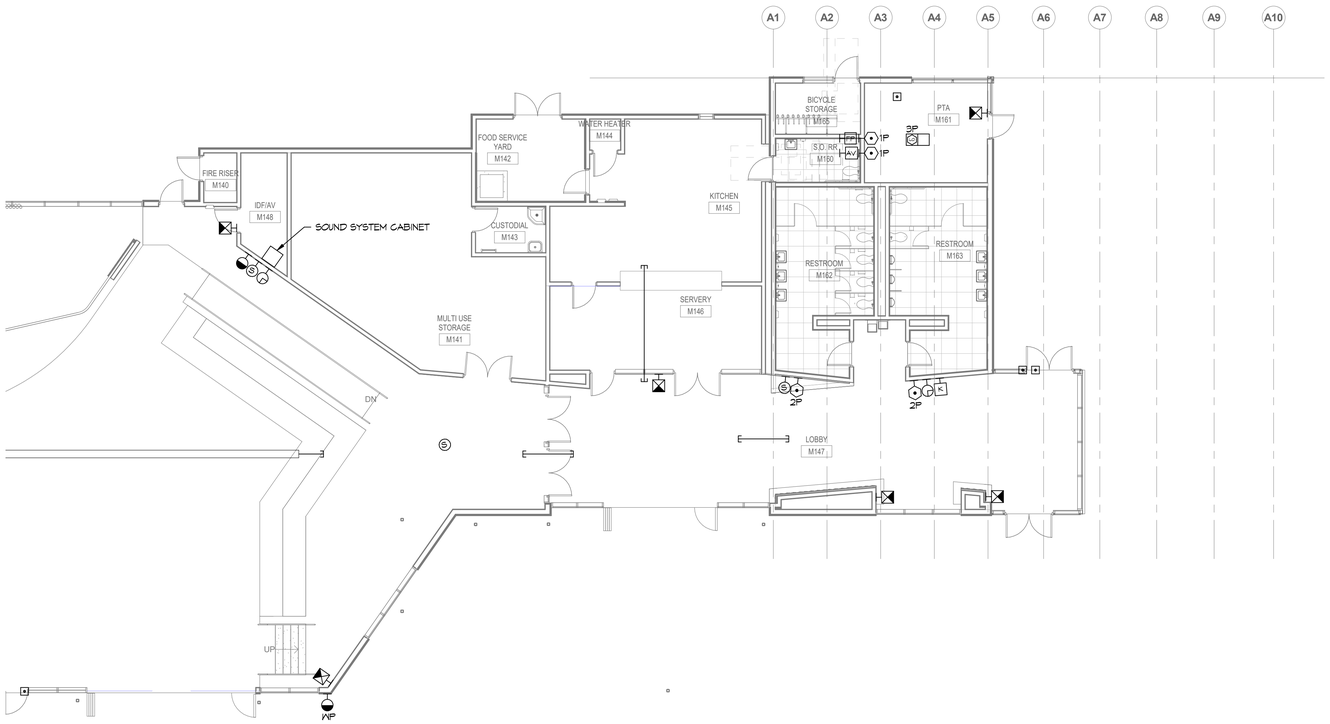
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FLOOR PLAN BLDG C
SOUTH - COMMUNICATIONS

NO.	DATE	ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E4.3



1 FLOOR PLAN BLDG M EAST - COMMUNICATIONS

1/8" = 1'-0"

DEL MAR UNION SCHOOL DISTRICT

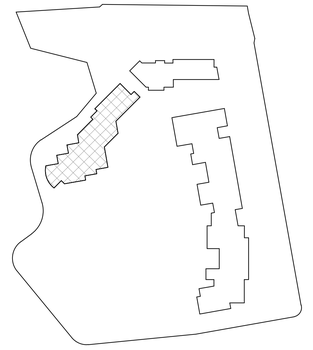
DEL MAR HEIGHTS SCHOOL

GENERAL NOTES:

1. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED DEVICES.
2. REFERENCE E4 AND E8 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
3. REFERENCE E4 SERIES SHEETS FOR TYPICAL COMMUNICATION SYSTEMS RISER DIAGRAM.
4. REFERENCE RISER DIAGRAMS FOR TYPICAL CONDUIT SIZES AND ROUTINGS.
5. LOCATION OF PROJECTOR AND OTHER AUDIO-VISUAL EQUIPMENT IS DIAGRAMMATICAL. EXACT LOCATION OF EQUIPMENT TO BE FIELD VERIFIED PRIOR TO INSTALLATION. LOCATION OF PROJECTOR AND PROJECTOR MOUNT TO BE COORDINATED WITH LOCATION OF SCREEN.
6. REFER TO AUDIO-VISUAL SYSTEM DIAGRAMS FOR ADDITIONAL REQUIREMENTS, FOR JUNCTION BOX LOCATIONS, TYPES AND SIZES.

KEY NOTES:

1. 3/4"C. TO BUILDING COMMUNICATIONS CABINET.
2. 1"C. TO BUILDING COMMUNICATIONS CABINET.
3. 1 1/4"C. TO BUILDING COMMUNICATIONS CABINET.
4. 3/4"C. TO BUILDING 'IDF' LOCATION.
5. 1"C. TO BUILDING 'IDF' LOCATION.
6. 1 1/4"C. TO BUILDING 'IDF' LOCATION.
7. 3/4"C. TO SOUND SYSTEM EQUIPMENT RACK.
8. 1"C. TO SOUND SYSTEM EQUIPMENT RACK.
9. 1 1/4"C. TO SOUND SYSTEM EQUIPMENT RACK.



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FLOOR PLAN BLDG M EAST - COMMUNICATIONS

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E4.4

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1 FLOOR PLAN BLDG M WEST - COMMUNICATIONS

1/8" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT

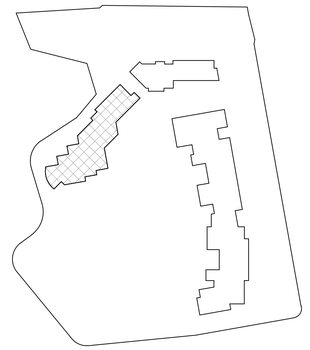
DEL MAR HEIGHTS SCHOOL

GENERAL NOTES:

1. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED DEVICES.
2. REFERENCE E4 AND E6 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
3. REFERENCE E4 SERIES SHEETS FOR TYPICAL COMMUNICATION SYSTEMS RISER DIAGRAM.
4. REFERENCE RISER DIAGRAMS FOR TYPICAL CONDUIT SIZES AND ROUTINGS.
5. LOCATION OF PROJECTOR AND OTHER AUDIO-VISUAL EQUIPMENT IS DIAGRAMMATICAL. EXACT LOCATION OF EQUIPMENT TO BE FIELD VERIFIED PRIOR TO INSTALLATION. LOCATION OF PROJECTOR AND PROJECTOR MOUNT TO BE COORDINATED WITH LOCATION OF SCREEN.
6. REFER TO AUDIO-VISUAL SYSTEM DIAGRAMS FOR ADDITIONAL REQUIREMENTS, FOR JUNCTION BOX LOCATIONS, TYPES AND SIZES.

KEY NOTES:

1. 3/4"C. TO BUILDING COMMUNICATIONS CABINET.
2. 1"C. TO BUILDING COMMUNICATIONS CABINET.
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4. 3/4"C. TO BUILDING 'IDF' LOCATION.
5. 1"C. TO BUILDING 'IDF' LOCATION.
6. 1 1/4"C. TO BUILDING 'IDF' LOCATION.
7. 3/4"C. TO SOUND SYSTEM EQUIPMENT RACK.
8. 1"C. TO SOUND SYSTEM EQUIPMENT RACK.
9. 1 1/4"C. TO SOUND SYSTEM EQUIPMENT RACK.



REGISTERED PROFESSIONAL ENGINEER
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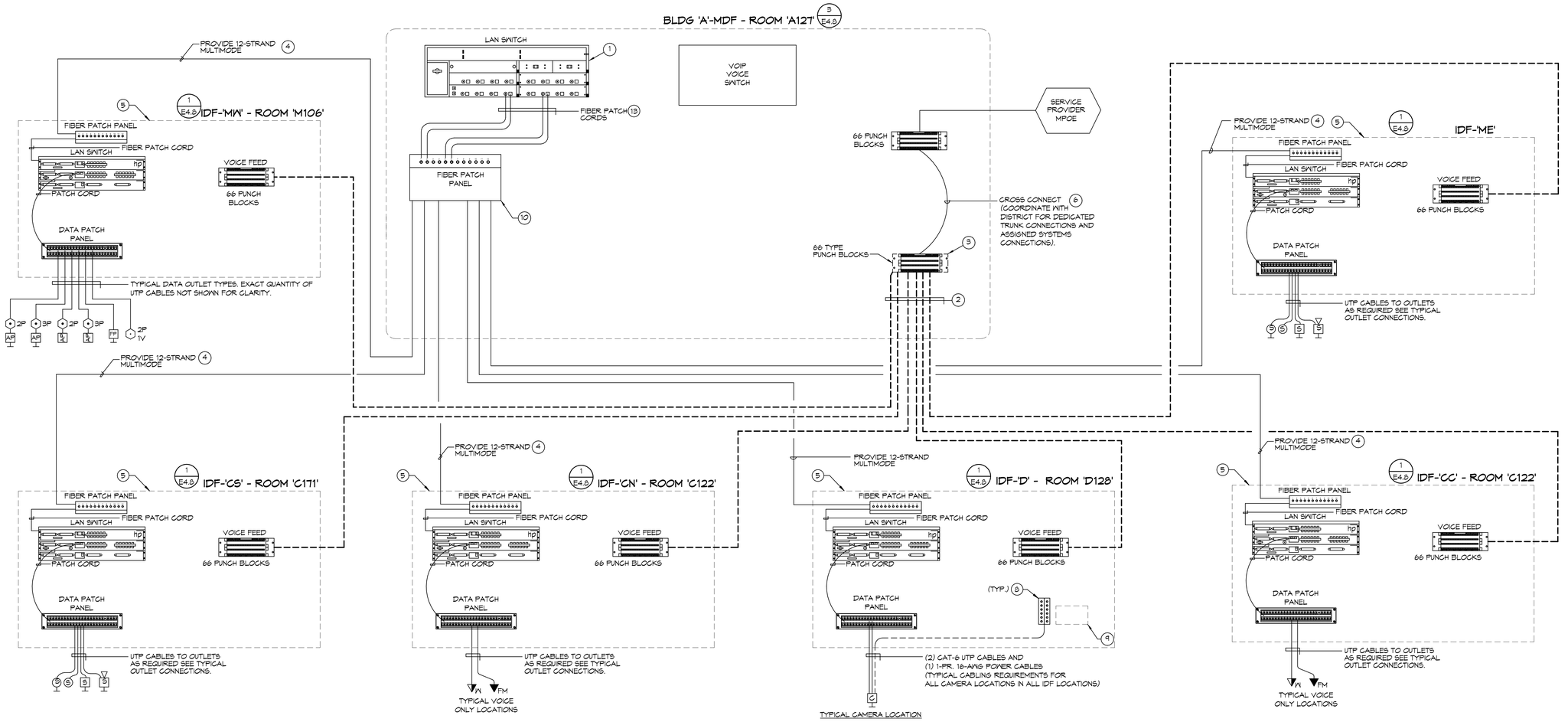
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FLOOR PLAN BLDG M WEST - COMMUNICATIONS

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E4.5



DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

GENERAL NOTES:

1. UNLESS OTHERWISE NOTED ALL ITEMS ARE TO BE FURNISHED AND INSTALLED BY 271500 CONTRACTOR.
2. ALL CONDUITS, POWER OUTLETS AND GROUNDING CONNECTIONS, BACKBOARDS TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
3. REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, AND FLOOR PLANS FOR ADDITIONAL EQUIPMENT ITEMS REQUIRED, AND THEIR LOCATIONS.
4. WHERE OPEN CONDUCTORS ARE INSTALLED ABOVE ACCESSIBLE CEILINGS, ALL CONDUCTORS SHALL BE NEATLY BUNDLED TOGETHER AND SUPPORTED FROM ROOF STRUCTURE. WHERE BUNDLED WITH OTHER COMMUNICATION SYSTEMS, IDENTIFYING TAGS SHALL BE PROVIDED TO IDENTIFY THESE CONDUCTORS FROM OTHER SYSTEMS.
5. CONTRACTOR TO COORDINATE QUANTITY, SIZE AND LOCATION OF CONDUIT SLEEVES THRU RATED WALLS WITH ELECTRICAL CONTRACTOR PRIOR TO BID. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT SLEEVES AND FIRE PENETRATION SEAL AFTER CABLES ARE INSTALLED.

KEY NOTES:

- (0) DISTRICT FURNISHED AND INSTALLED.
- (0) PROVIDE 50-PAIR OSP-RATED VOICE FEED CABLE.
- (0) TERMINATE VOICE FEED CABLE AT COMMUNICATIONS BACKBOARD OR COMMUNICATIONS CABINET. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION.
- (0) PROVIDE MULTIMODE 50/125UM, LASER OPTIMIZED, OM4 FIBER OPTIC FEED CABLE. TERMINATE ALL FIBERS IN PATCH PANEL. PROVIDE QUANTITY AS NOTED. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- (0) SEE IDF-'F2' ROOM 'F116' FOR TYPICAL NOTES.
- (0) CONTRACTOR SHALL FURNISH ALL TRUNK CROSS CONNECTIONS AND CABLING TO SYSTEMS AND LOCATIONS REQUIRING DIRECT TRUNK LINES. CONNECTIONS SHALL BE PROVIDED TO FIRE ALARM, SECURITY, ELEVATORS, ETC.
- (0) PROVIDE VOICE TRUNK CROSS CONNECTS IN IDF CLOSETS TO EQUIPMENT OR OUTLET LOCATIONS.
- (0) TERMINAL STRIPS ON BACKBOARD. TERMINATE POWER CABLES FROM CAMERA LOCATIONS ON TERMINAL STRIPS ON COMMUNICATIONS BACKBOARD. TYPICAL FOR ALL IDF LOCATIONS.
- (0) CAMERA POWER SUPPLY ON COMMUNICATIONS BACKBOARD BY DISTRICT. TYPICAL FOR ALL IDF LOCATIONS.
- (0) PROVIDE ADDITIONAL FIBER OPTIC PATCH PANELS IN MDF TO ACCOMODATE NEW FIBER OPTIC FEED CABLING FOR PHASE II. DO NOT USE EXISTING SPARE SPACE RESERVED FOR FUTURE ADDS TO PHASE I BUILDINGS.
- (0) PROVIDE WALL MOUNTED FIBER OPTIC PATCH PANEL INSIDE IDF/COMMUNICATIONS CABINET.
- (0) PROVIDE WALL MOUNTED 12-PORT CATEGORY-6 PATCH PANEL INSIDE IDF/COMMUNICATIONS CABINET. SEE CABINET DETAIL DRAWING FOR ADDITIONAL REQUIREMENTS.
- (0) PROVIDE ADDITIONAL FIBER OPTIC PATCH CABLES IN EXISTING MDF ROOM FOR NEW FIBER OPTIC FEED CABLE CONNECTIONS TO THE DISTRICT FURNISHED NETWORK SWITCHES.
- (0) DO NOT GROUND SHIELD ON VOICE FEED CABLE IN THE MDF ROOM. MAY RESULT IN GROUND POTENTIAL PROBLEMS.
- (0) GROUND SHIELD ON VOICE FEED CABLE IN IDF ROOM ONLY. PROVIDE BULLET BOND ON CABLE AND TIE TO GROUND BUS BAR IN IDF CLOSET.

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COMMUNICATION RISER DIAGRAM

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E4.6

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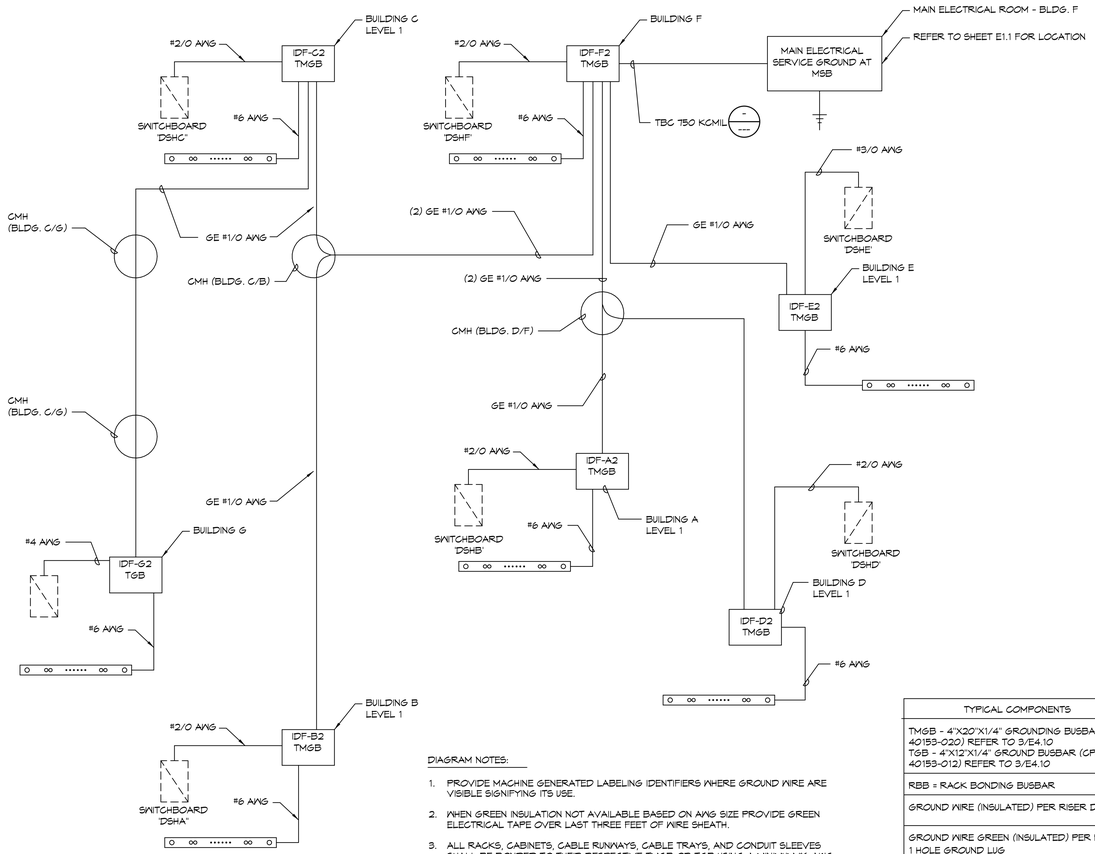


DIAGRAM NOTES:

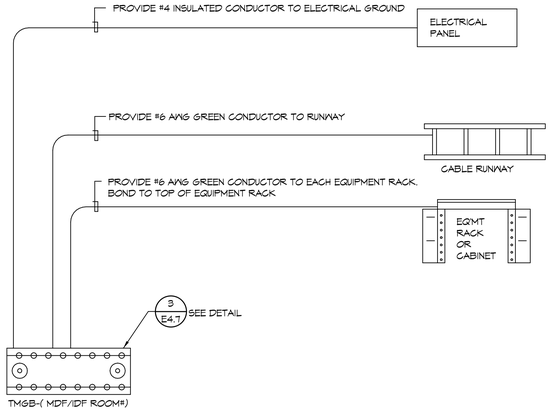
1. PROVIDE MACHINE GENERATED LABELING IDENTIFIERS WHERE GROUND WIRE ARE VISIBLE SIGNIFYING ITS USE.
2. WHEN GREEN INSULATION NOT AVAILABLE BASED ON AWG SIZE PROVIDE GREEN ELECTRICAL TAPE OVER LAST THREE FEET OF WIRE SHEATH.
3. ALL RACKS, CABINETS, CABLE RUNWAYS, CABLE TRAYS, AND CONDUIT SLEEVES SHALL BE BONDED TO THEIR RESPECTIVE TMGB OR TGB USING A MINIMUM #6 AWG (GREEN INSULATED) STRANDED COPPER BONDING CONDUCTOR AND LISTED COMPRESSION TYPE FITTINGS.
4. GROUNDING EQUALIZER SHALL ESTABLISH AN EQUAL POTENTIAL GROUND PLANE THROUGHOUT THE TELECOMMUNICATIONS GROUNDING SYSTEM.
5. DO NOT CUT OR SPLICE GROUND CONDUCTORS IN COMMUNICATIONS HAND HOLES OR MANHOLES. GROUND CONDUCTORS SHALL BE FED THROUGH HANDHOLES OR MANHOLES AND LABELED AS SHOWN IN SPEC. SECTION 27-05-26.
6. DO NOT TIE GROUND CONDUITS FOR HIGH SCHOOL CAMPUS TO EXISTING GROUNDING SYSTEM FOR MIDDLE SCHOOL (BLDG. 'D-EXISTING MDF ROOM). MAY CAUSE SERIOUS GROUND POTENTIAL PROBLEMS FOR NETWORKING AND TELECOMMUNICATIONS SYSTEMS.

TYPICAL COMPONENTS
TMGB - 4"X20"X1/4" GROUNDING BUSBAR (CPI PART NO. 40153-020) REFER TO 3/E4.10 TGB - 4"X12"X1/4" GROUND BUSBAR (CPI PART NO. 40153-012) REFER TO 3/E4.10
RBB = RACK BONDING BUSBAR
GROUND WIRE (INSULATED) PER RISER DIAGRAM
GROUND WIRE GREEN (INSULATED) PER RISER DIAGRAM 1 HOLE GROUND LUG
2 HOLE GROUND LUG
CMH - COMMUNICATION MANHOLE/HANDHOLE

TELECOM GROUNDING DIAGRAM

NO SCALE

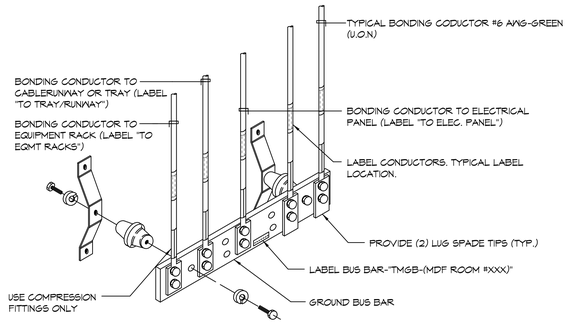
1 / E4.7



TYPICAL MDF/IDF ROOM GROUNDING DETAIL

NO SCALE

2 / E4.7

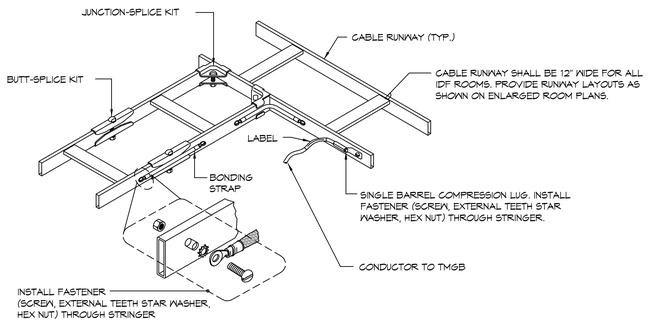


PROVIDE "CPI # 40153-012" GROUND BAR ASSEMBLY OR EQUAL. (PROVIDE INSULATOR ASSEMBLIES)

DATA / COMMUNICATIONS GROUNDING DETAIL

NO SCALE

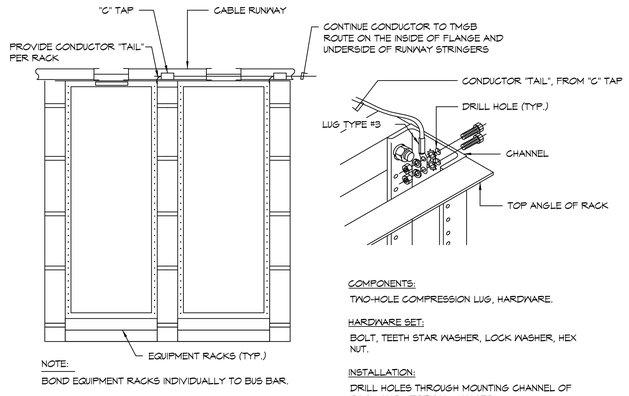
3 / E4.7



TYPICAL CABLE RUNWAY BONDING IN MDF/IDF ROOM

NO SCALE

4 / E4.7



NOTE:

BOND EQUIPMENT RACKS INDIVIDUALLY TO BUS BAR.

COMPONENTS:

TWO-HOLE COMPRESSION LUG, HARDWARE.

HARDWARE SET:

BOLT, TEETH STAR WASHER, LOCK WASHER, HEX NUT.

INSTALLATION:

DRILL HOLES THROUGH MOUNTING CHANNEL OF RACK AND VERTICAL MANGER. INSTALL FASTENERS THROUGH CHANNEL AND VERTICAL MANAGER.

TYPICAL EQUIPMENT RACK BONDING IN MDF/IDF ROOM

NO SCALE

5 / E4.7

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DEL MAR HEIGHTS SCHOOL

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COMMUNICATION DETAILS

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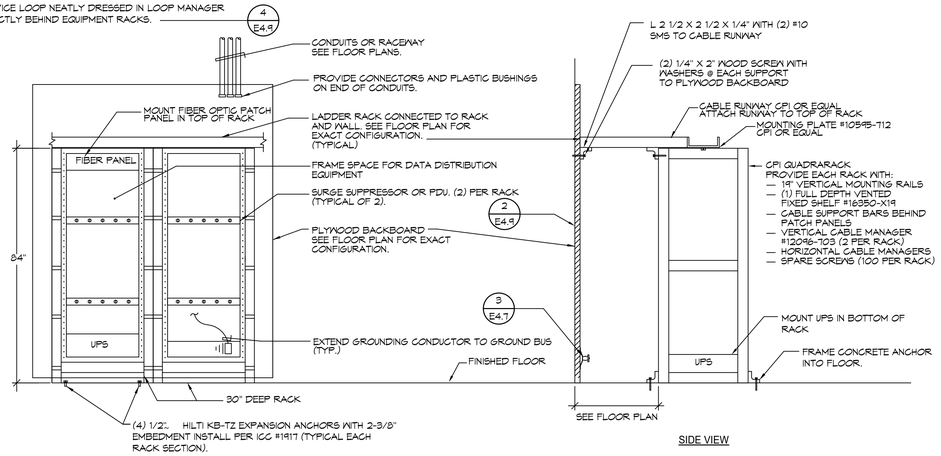
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DRAWING
E4.7

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GENERAL NOTE:

1. ALL FIBER OPTIC CABLE SHALL HAVE A MINIMUM 20 FOOT SERVICE LOOP NEATLY DRESSED IN LOOP MANAGER DIRECTLY BEHIND EQUIPMENT RACKS. (4 / E4.9)

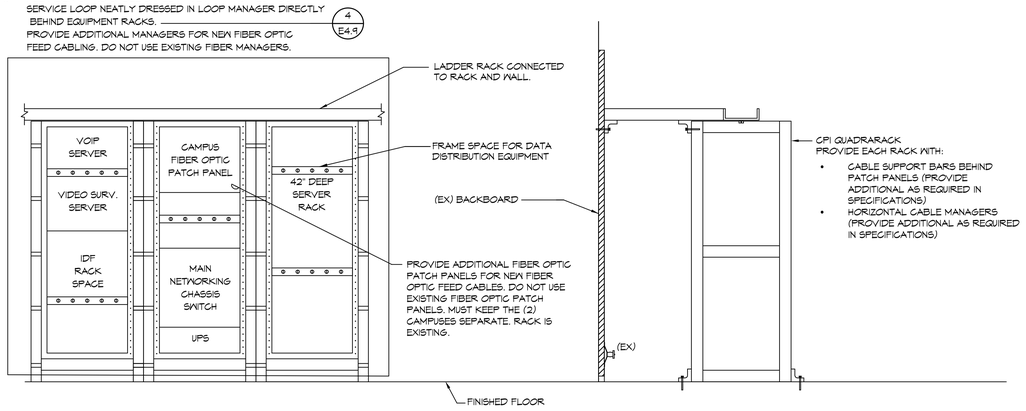


DATA DISTRIBUTION FRAME DETAIL - IDF RACK DETAIL (1 / E4.8)

NO SCALE

GENERAL NOTE:

1. ALL FIBER OPTIC CABLE SHALL HAVE A MINIMUM 20 FOOT SERVICE LOOP NEATLY DRESSED IN LOOP MANAGER DIRECTLY BEHIND EQUIPMENT RACKS. (4 / E4.9)
   PROVIDE ADDITIONAL MANAGERS FOR NEW FIBER OPTIC FEED CABLING. DO NOT USE EXISTING FIBER MANAGERS.



FRONT ELEVATION

SIDE VIEW

MDF DATA DISTRIBUTION FRAME DETAIL (SEE FLOOR PLANS FOR RACK LAYOUT IN MDF ROOM) (3 / E4.8)

NO SCALE

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

REGISTERED PROFESSIONAL ENGINEER — DOMINIC GOESE-JAMES — NO.E 14781 Exp. 6-30-2019 — ELECTRICAL — STATE OF CALIFORNIA

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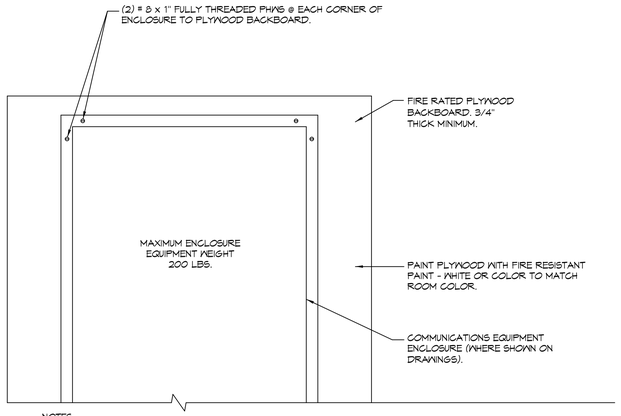
COMMUNICATIONS DETAILS

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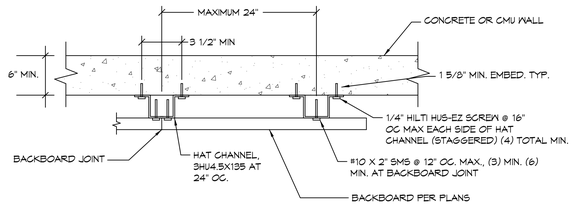
DRAWING
E4.8

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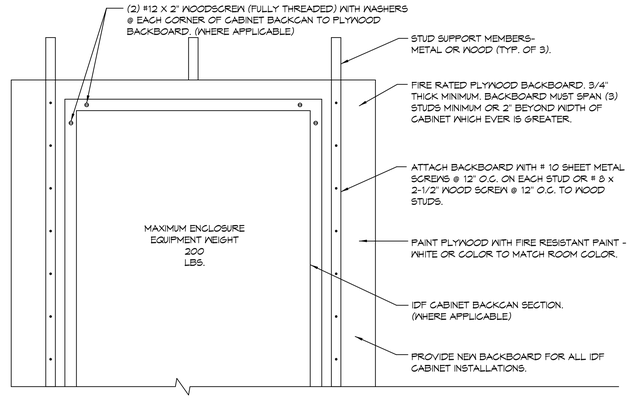


NOTES:
1. REFERENCE EQUIPMENT RACK DETAILS FOR REQUIRED BACKBOARD HEIGHT.
2. REFERENCE FLOOR PLANS FOR BACKBOARD WIDTH REQUIRED FOR COVERING LARGER WALL AREAS THAN FOR ISOLATED EQUIPMENT INSTALLATIONS.

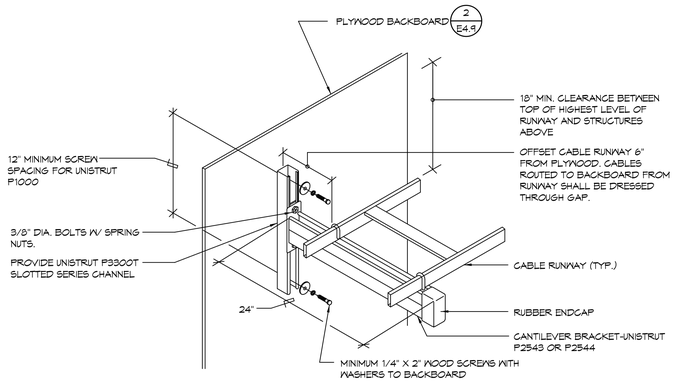
TYPICAL BACKBOARD DETAIL AT CONCRETE WALL
NO SCALE — 1 / E4.9



INSTALLATION AT CONCRETE WALL



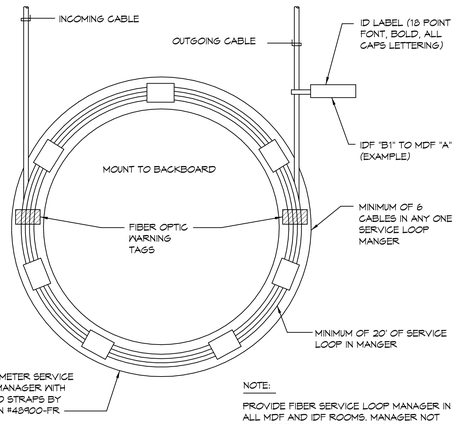
TYPICAL BACKBOARD DETAIL
NO SCALE — 2 / E4.9



NOTE:
1. REFER TO ROOM PLANS FOR CABLE RUNWAY SIZE AND REQUIREMENTS.

MAX. ALLOWABLE LOAD OF BRACKET = 75LBS.

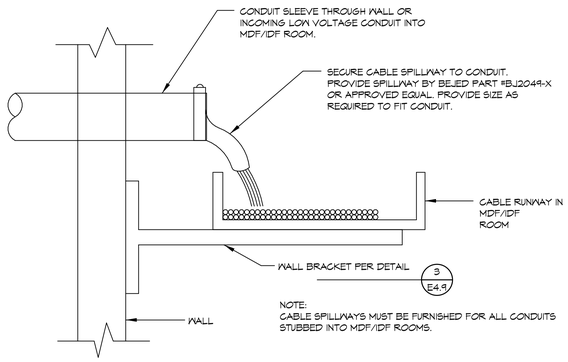
TYPICAL CABLE RUNWAY INSTALLATION ALONG WALL DETAIL
NO SCALE — 3 / E4.9



NOTE:

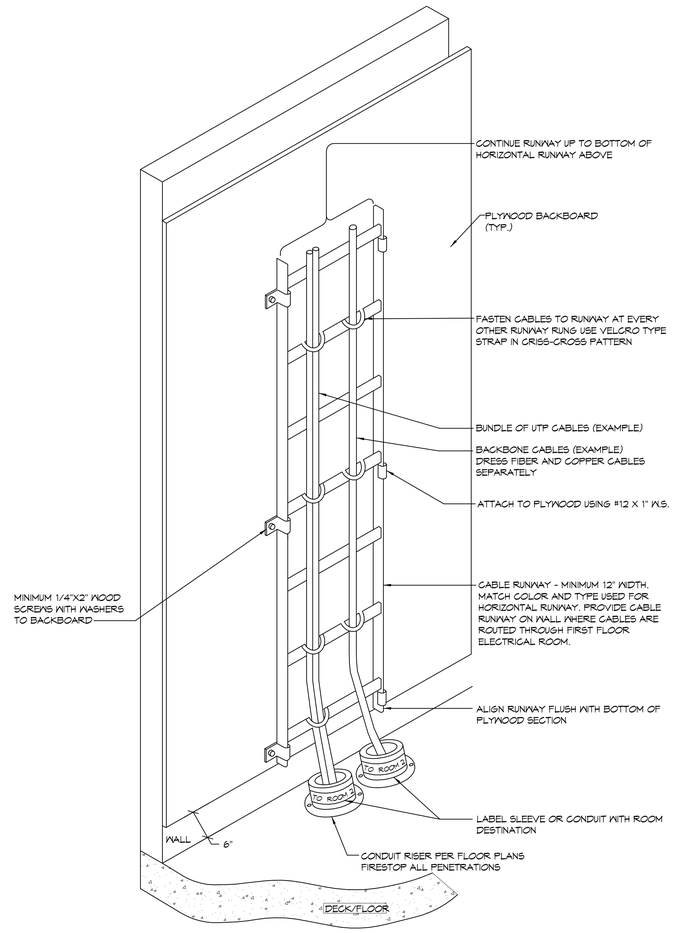
PROVIDE FIBER SERVICE LOOP MANAGER IN ALL MDF AND IDF ROOMS. MANAGER NOT REQUIRED AT WALL MOUNT IDF CABINET.

TYPICAL FIBER OPTIC FEED SERVICE LOOP DETAIL
NO SCALE — 4 / E4.9



NOTE:
CABLE SPILLWAYS MUST BE FURNISHED FOR ALL CONDUITS STUBBED INTO MDF/IDF ROOMS.

TYPICAL CONDUIT/CABLE SPILLWAY DETAIL - IDF ROOM
NO SCALE — 5 / E4.9



NOTE:
1. REFER TO FLOOR PLANS AND DETAILS FOR CONDUIT SIZES AND LOCATIONS.
2. PROVIDE A VERTICAL CABLE RUNWAY AT ALL CONDUIT PENETRATIONS FROM FIRST FLOOR INSIDE ROOMS.

TYPICAL CABLE ROUTING AT FLOOR PENETRATION IN IDF CLOSET
NO SCALE — 6 / E4.9

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

REGISTERED PROFESSIONAL ENGINEER — MARIANNE GOSSE-HOLMES — NO. E 14781 Exp. 6-30-2019 — ELECTRICAL — STATE OF CALIFORNIA
#16061

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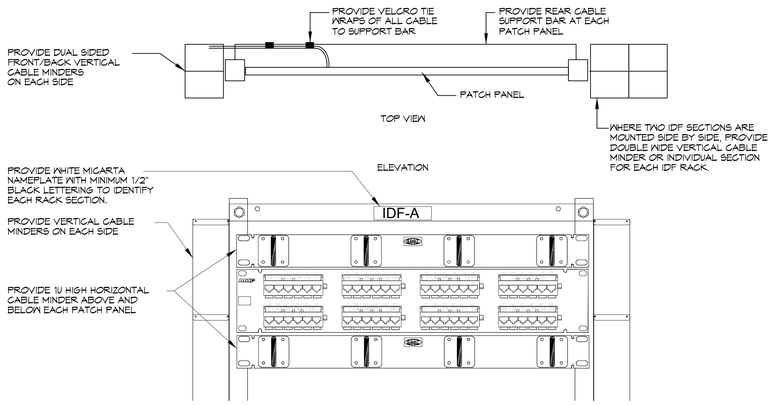
COMMUNICATIONS DETAILS

NO.	DATE	ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

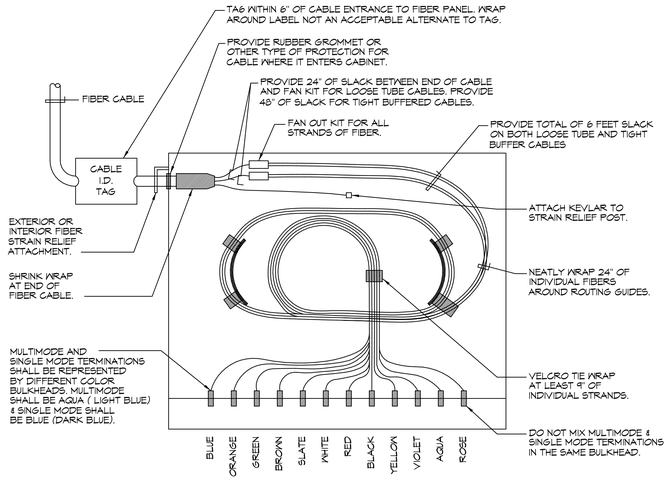
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E4.9

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TYPICAL IDF/MDF LABELING AND CABLE SUPPORT DETAIL
NO SCALE

1
E4.10



FIBER TERMINATION DETAIL
NO SCALE

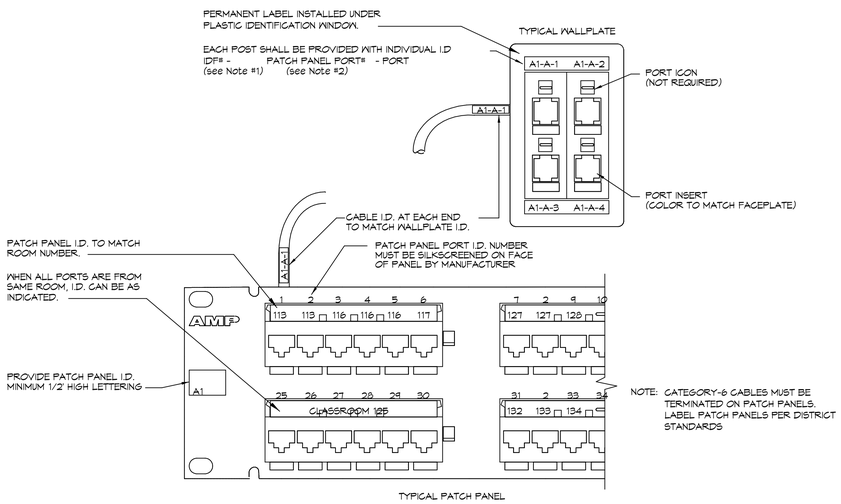
2
E4.10

NOTE:

1. EACH IDF SHALL BE NUMBERED TO MATCH THE BUILDING NAME (IDF-A or IDF-100, FOR BUILDINGS WITH MULTIPLE IDF'S (IDF-A1, A2 or IDF-100A, 100B)
2. NUMBER TO MATCH MANUFACTURER'S PREPRINTED NUMBERS 1-48 ON PATCH PANEL
3. BOTH ROOM NUMBER AND PATCH PANEL PORT ASSIGNMENT MUST BE SHOWN ON PATCH PANEL.

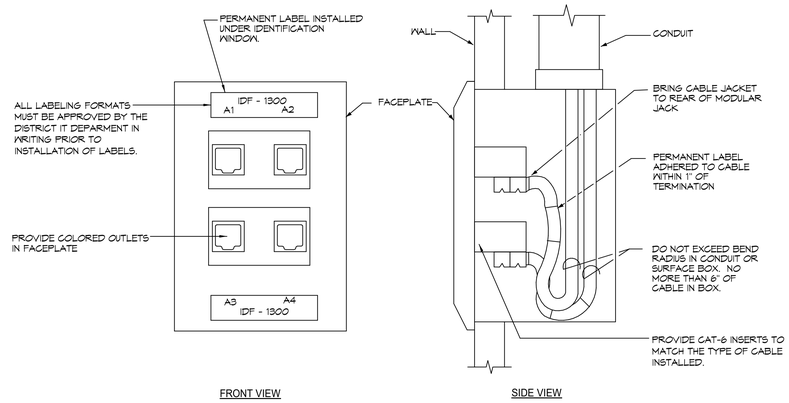
GENERAL NOTES:

1. ALL IDENTIFICATIONS SHALL BE MACHINE MADE, NO HAND WRITTEN LABELS. SEE SPECIFICATIONS. VERIFY IN WRITING ALL ROOM IDENTIFICATIONS WITH ARCHITECT PRIOR TO MAKING ANY LABELS.
2. ALL LABELING FORMATS ARE SUBJECT TO APPROVAL BY THE DISTRICT IT DEPARTMENT. CONTRACTOR MUST CONFIRM ALL LABELING FORMATS PRIOR TO INSTALLATION OF ANY LABELS AND MUST HAVE WRITTEN APROVAL. CONTRACT MUST FOLLOW DOCUMENTED DISTRICT STANDARDS AND HAVE LABELING FORMAT APPROVED IN WRITING PRIOR TO INSTALLATION.



TYPICAL DATA NETWORKING LABELING REQUIREMENT
NO SCALE

3
E4.10



TYPICAL FACEPLATE LABELING DETAIL
NO SCALE

4
E4.10

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

REGISTERED PROFESSIONAL ENGINEER
MICHAEL CREESE-HANSON
NO.E 14781
Exp. 6-30-2019
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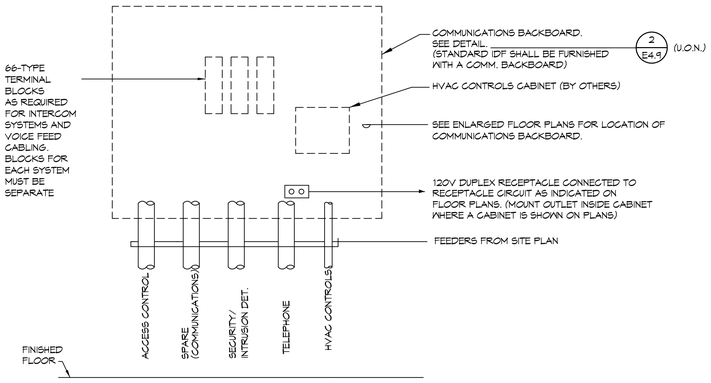
COMMUNICATION DETAILS

NO.	DATE	ISSUE

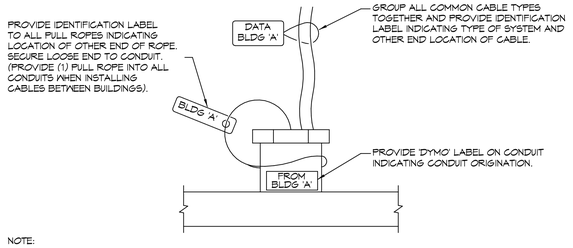
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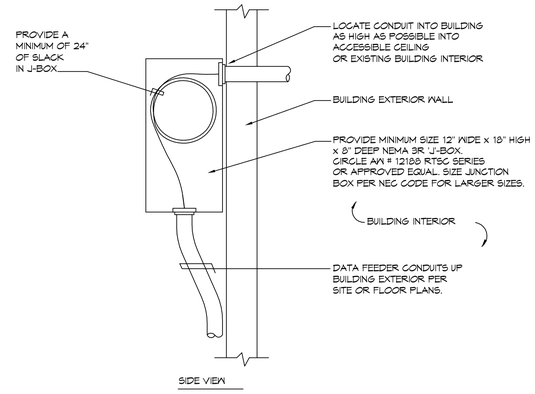


COMMUNICATIONS BACKBOARD DETAIL
NO SCALE
1 E4.11



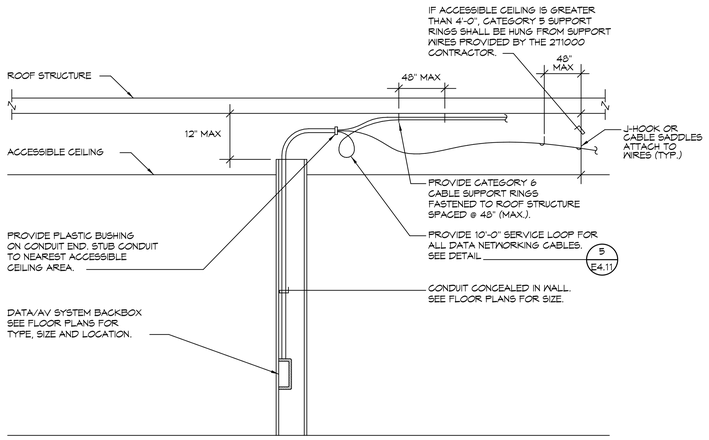
NOTE:
1. THIS DETAIL APPLIES TO ALL CONDUITS ENTERING BUILDINGS FROM UNDERGROUND OR OVERHEAD WHERE CONDUITS ENTER UNDERGROUND HANDHOLES, PROVIDE SIMILAR LABELING EXCEPT USE WATERPROOF LABELS.
2. HAND WRITTEN LABELS ARE NOT PERMITTED.

COMMUNICATION CABLE TYPICAL LABELING DETAIL
NO SCALE
2 E4.11



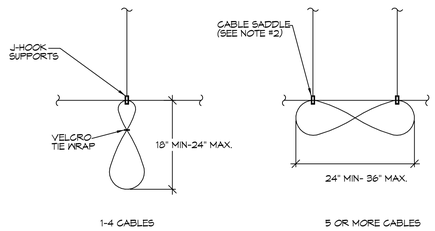
SIDE VIEW

DATA SYSTEM INSTALLATION
NO SCALE
3 E4.11



NOTES:
#1 REFERENCE CONTRACT DOCUMENTS FOR WHICH SYSTEMS, AND IN WHAT AREAS OPEN WIRE INSTALLATIONS ARE PERMITTED.
#2 SECURITY SYSTEMS CONTRACTOR MUST INSTALL THEIR OWN SUPPORT SYSTEM, SEPARATE FROM THE VOICE/DATA CABLING SUPPORT SYSTEM.

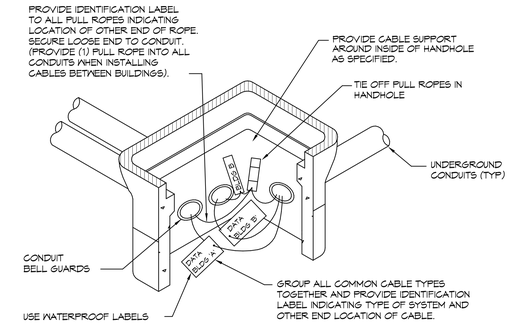
COMMUNICATIONS SYSTEM OPEN WIRE/CONDUIT STUB DETAIL
NO SCALE
4 E4.11



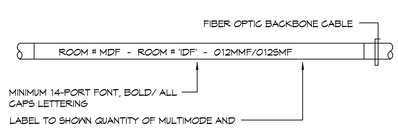
NOTE:
1. ALL SERVICE LOOPS SHALL BE FORMED IN FIGURE 8 CONFIGURATION
2. SADDLE SHALL BE SIZED TO HOLD QUANTITY OF CABLES REQUIRED PER MANUFACTURE REQ.

TYPICAL SERVICE LOOP
NO SCALE
5 E4.11

NOTE:
1. HAND WRITTEN LABELS ARE NOT PERMITTED
2. CABLES SHALL NOT BE PULLED UNTIL CONDUIT BELL GUARDS HAVE BEEN PLACED.

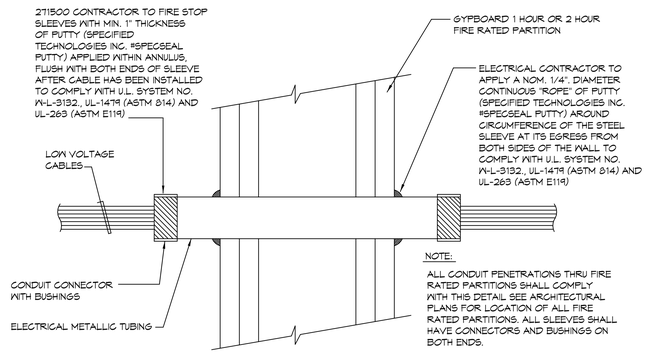


COMMUNICATIONS HANDHOLE LABELING DETAIL (TYP)
NO SCALE
6 E4.11



NOTES:
1. LABEL BOTH ENDS OF BACKBONE CABLES AND IN EACH ROOM IN WHICH THE CABLE ROUTES THROUGH.
2. ROOM DESIGNATIONS SHOWN IN DETAIL ARE AN EXAMPLE AND MAY NOT REFLECT ACTUAL ROOM INFORMATION.

TYPICAL BACKBONE LABELING DETAIL
NO SCALE
8 E4.11



COMMUNICATIONS CABLES SLEEVES PENETRATION THRU FIRE RATED PARTITIONS
NO SCALE
9 E4.11

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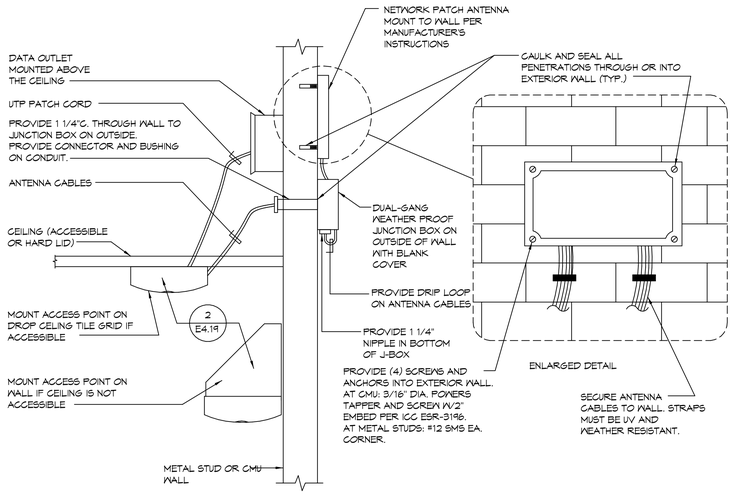
COMMUNICATION DETAILS

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E4.11

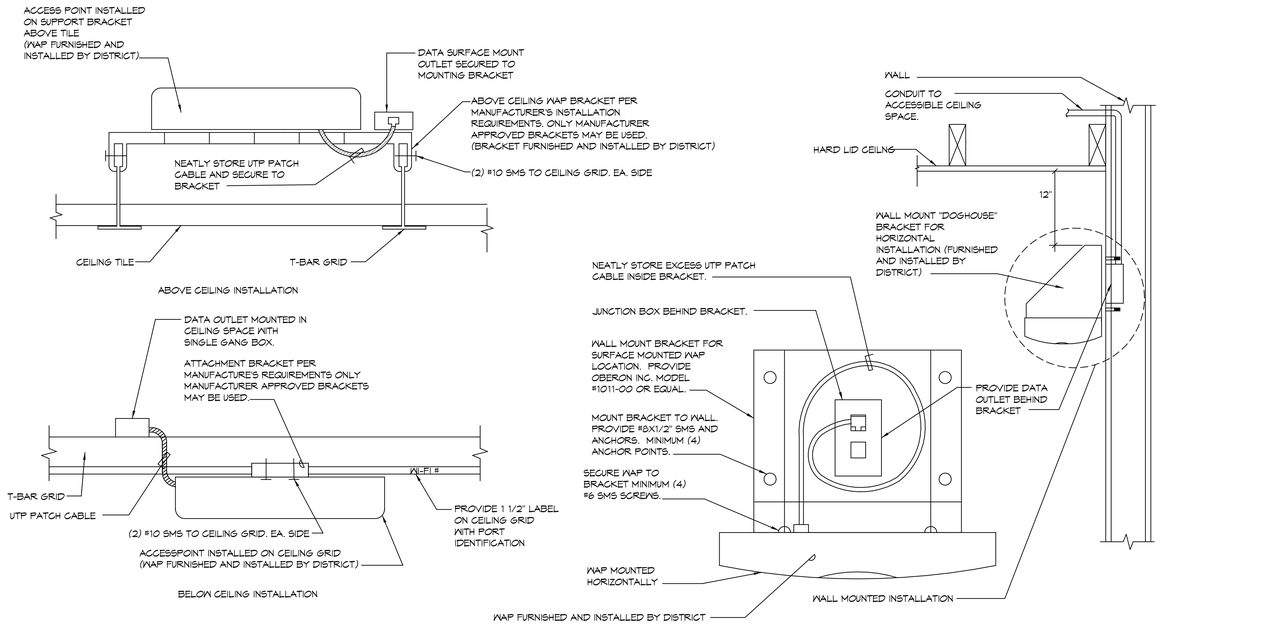
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DIRECTIONAL WIRELESS ACCESS POINT ANTENNA MOUNTING DETAIL

1 / E4.12

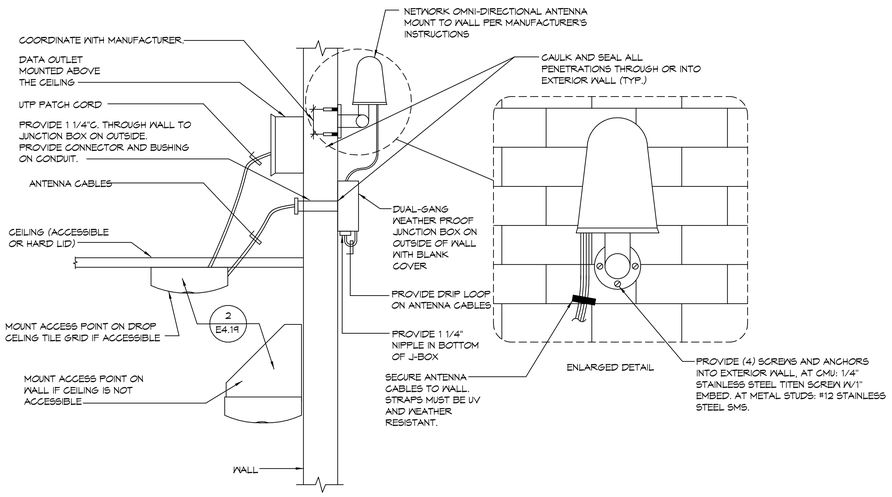
NO SCALE



WIRELESS ACCESS POINT ANTENNA MOUNTING DETAIL

2 / E4.12

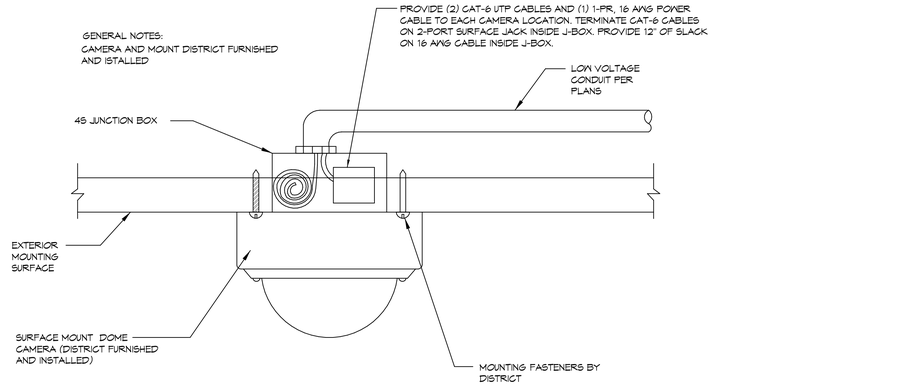
NO SCALE



OMNI-DIRECTIONAL WIRELESS ACCESS POINT ANTENNA MOUNTING DETAIL

3 / E4.12

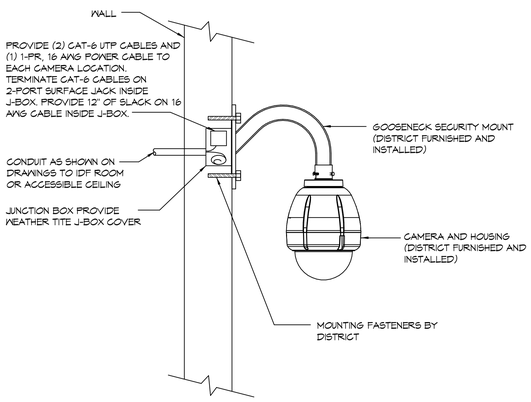
NO SCALE



SURFACE MOUNTED INTERIOR/EXTERIOR CEILING MOUNT CAMERA DETAIL

4 / E4.12

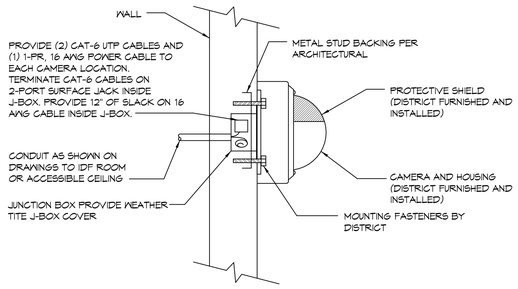
NO SCALE



WALL MOUNTED CAMERA DETAIL - PTZ CAMERA

5 / E4.12

NO SCALE



WALL MOUNTED CAMERA DETAIL - DOME CAMERA

6 / E4.12

NO SCALE

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

REGISTERED PROFESSIONAL ENGINEER — MARIA CRISSE-HARRIS — NO.E 14781 — Exp. 6-30-2019 — ELECTRICAL — STATE OF CALIFORNIA

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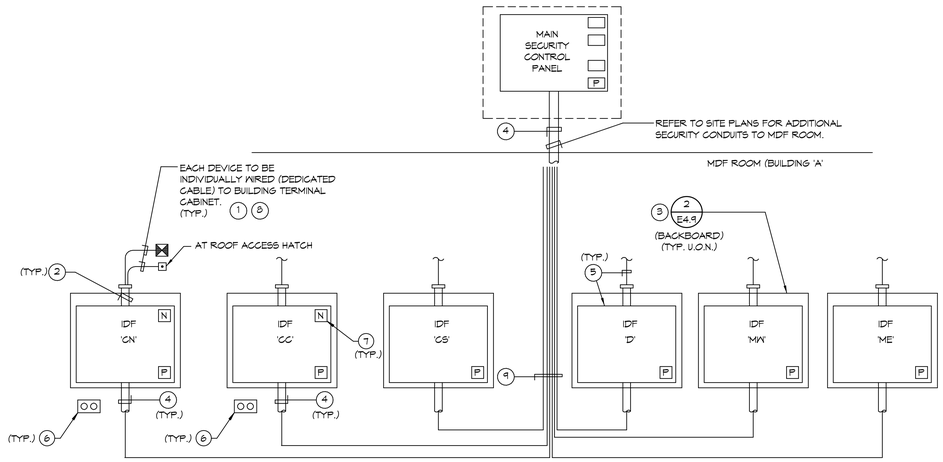
COMMUNICATION DETAILS

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E4.12

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GENERAL NOTES:

1. ALL CONDUITS, POWER OUTLETS AND GROUNDING CONNECTIONS, BACKBOARDS AND REMOTE BUILDING COMMUNICATIONS CABINETS TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
2. REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, AND FLOOR PLANS FOR ADDITIONAL EQUIPMENT ITEMS REQUIRED, AND THIER LOCATIONS.
3. WHERE OPEN CONDUCTORS ARE INSTALLED ABOVE ACCESSIBLE CEILINGS, ALL CONDUCTORS SHALL BE NEATLY BUNDLED TOGETHER AND SUPPORTED FROM ROOF STRUCTURE. WHERE BUNDLED WITH OTHER COMMUNICATION SYSTEMS, IDENTIFYING TAGS SHALL BE PROVIDED TO IDENTIFY THESE CONDUCTORS FROM OTHER SYSTEMS.
4. PROVIDE I.D. LABEL ON EACH END OF EACH CABLE.
5. ALL SECURITY CABLING MUST BE SUPPORTED FROM THE STRUCTURE THE SAME AS REQUIRED FOR VOICE/DATA CABLING. SEE DETAIL 4/E4.11 FOR REQUIREMENTS.

KEY NOTES:

1. FINAL TERMINATION AT SECURITY PANEL TO BE PROVIDED BY DISTRICT.
2. PROVIDE MINIMUM (2) 2"C. CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE. PROVIDE PLASTIC BUSHINGS AT EACH END. PROVIDE ADDITIONAL CONDUITS AS REQUIRED TO ACCOMODATE ALL CABLES PLUS 40% FUTURE CAPACITY. COORDINATE WITH 281600 CONTRACTOR.
3. COMMUNICATIONS BACKBOARD. SEE FLOOR PLANS FOR IDF ROOMS WITH A COMMUNICATIONS BACKBOARD. PROVIDE ADEQUATE SPACE FOR FUTURE PUNCH BLOCKS.
4. SITE CONDUIT FOR FUTURE USE.
5. IDF-'CN' FOR TYPICAL NOTES.
6. DUPLEX RECEPTACLE LOCATED 6" BELOW CABINET. FIELD VERIFY EXACT LOCATION WITH SECURITY/INTRUSION CONTRACTOR PRIOR TO ROUGH IN. REFER TO IDF ROOM ENLARGED FLOOR PLAN FOR ADDITIONAL REQUIREMENTS.
7. DIGITAL COMMUNICATOR (DISTRICT FURNISHED AND INSTALLED.)
8. CONTRACTOR SHALL PROVIDE 15'-0" OF SLACK IN THE IDF CLOSET FOR ALL DEVICES CABLES AT THE COMMUNICATIONS BACKBOARD. ALL CONNECTIONS SHALL BE COMPLETED BY THE DISTRICT.
9. ANY SITE CABLE CONNECTIONS BETWEEN THE SECURITY PANELS SHALL BE FURNISHED AND INSTALLED BY DISTRICT

TYPICAL SECURITY/INTRUSION DETECTION SYSTEM DIAGRAM

NO SCALE

1/E4.13

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

REGISTERED PROFESSIONAL ENGINEER
MICHAEL GOSSE-HOOVER
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E4.13

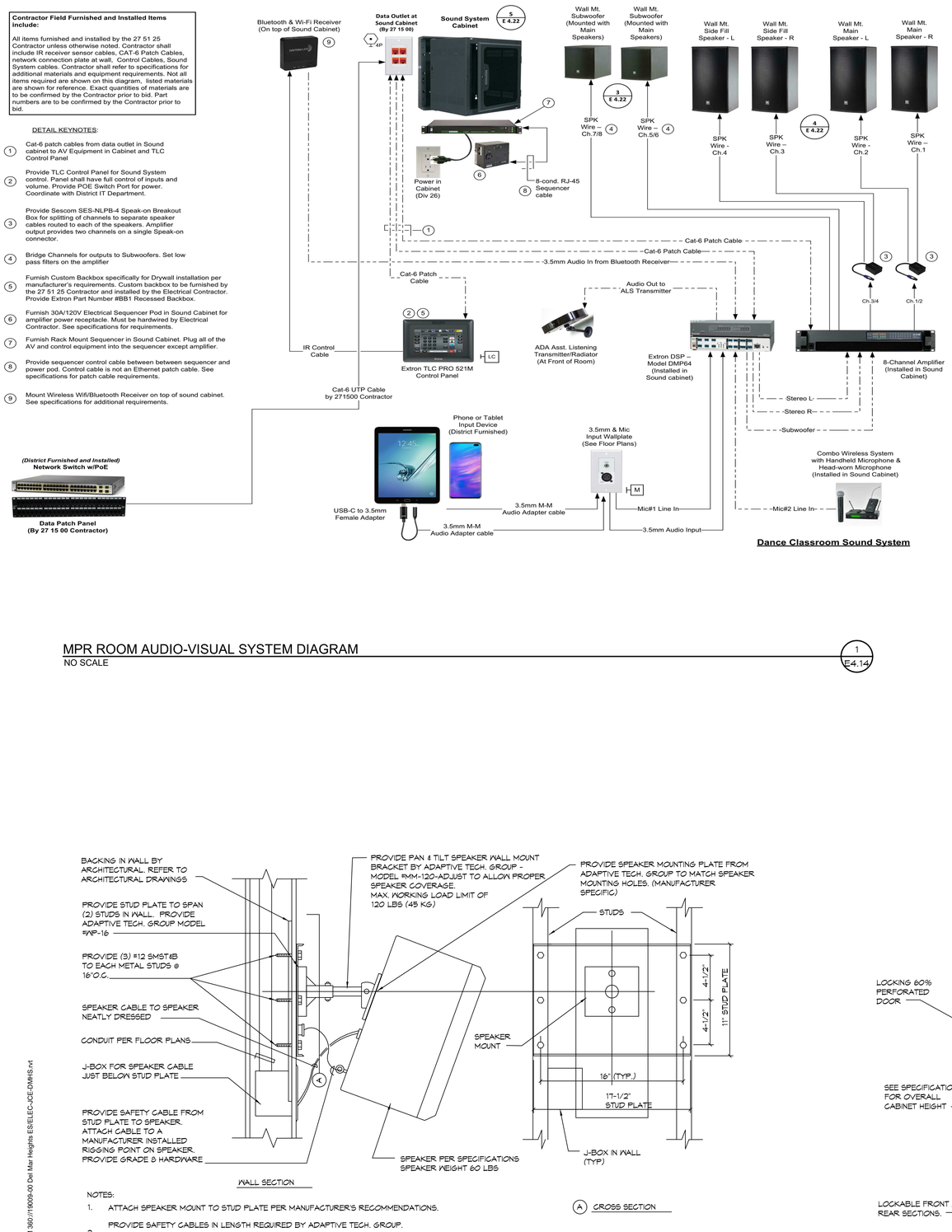
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Contractor Field Furnished and Installed Items include:

All items furnished and installed by the 27 51 25 Contractor unless otherwise noted. Contractor shall include IR receiver sensor cables, CAT-6 Patch Cables, network connection plate at wall, Control Cables, Sound System cables. Contractor shall refer to specifications for additional materials and equipment requirements. Not all items required are shown on this diagram, listed materials are shown for reference. Exact quantities of materials are to be confirmed by the Contractor prior to bid. Part numbers are to be confirmed by the Contractor prior to bid.

DETAIL KEYNOTES:

1. Cat-6 patch cables from data outlet in Sound cabinet to AV Equipment in Cabinet and TLC Control Panel
2. Provide TLC Control Panel for Sound System control. Panel shall have full control of inputs and volume. Provide POE Switch Port for power. Coordinate with District IT Department.
3. Provide Sescom SES-NLPB-4 Speak-on Breakout Box for splitting of channels to separate speaker cables routed to each of the speakers. Amplifier output provides two channels on a single Speak-on connector.
4. Bridge Channels for outputs to Subwoofers. Set low pass filters on the amplifier
5. Furnish Custom Backbox specifically for Drywall installation per manufacturer's requirements. Custom backbox to be furnished by the 27 51 25 Contractor and installed by the Electrical Contractor. Provide Extron Part Number #BB1 Recessed Backbox.
6. Furnish 30A/120V Electrical Sequencer Pod in Sound Cabinet for amplifier power receptacle. Must be hardwired by Electrical Contractor. See specifications for requirements.
7. Furnish Rack Mount Sequencer in Sound Cabinet. Plug all of the AV and control equipment into the sequencer except amplifier.
8. Provide sequencer control cable between between sequencer and power pod. Control cable is not an Ethernet patch cable. See specifications for patch cable requirements.
9. Mount Wireless Wifi/Bluetooth Receiver on top of sound cabinet. See specifications for additional requirements.

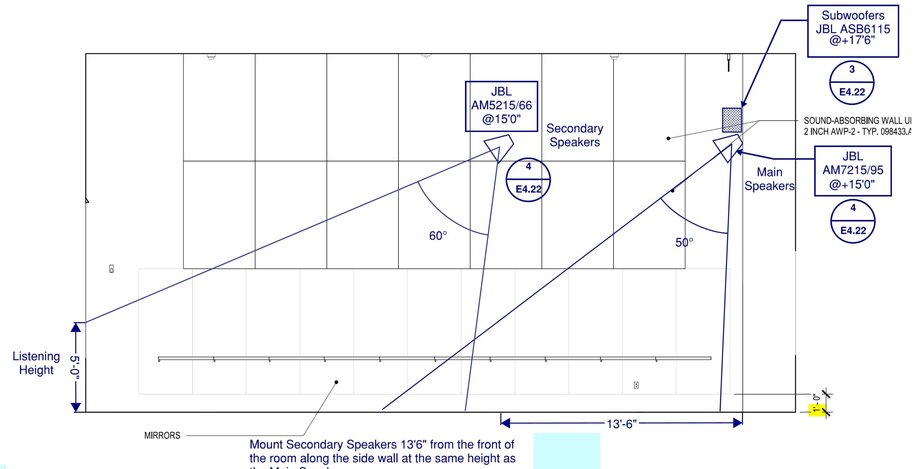


Dance Classroom Sound System

MPR ROOM AUDIO-VISUAL SYSTEM DIAGRAM

NO SCALE

1 / E4.14



Mount Secondary Speakers 13'6" from the front of the room along the side wall at the same height as the Main Speakers

BLDG C - DANCE EAST (C202)

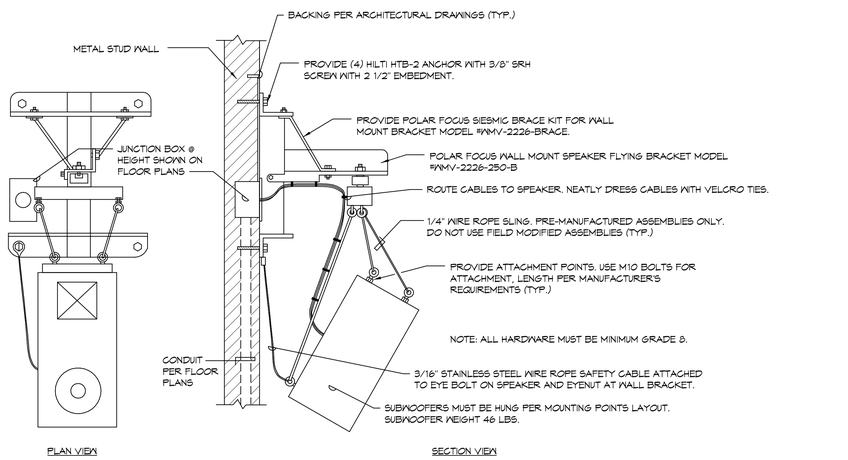
DETAIL NOTES:

1. REFER TO THE SPECIFICATIONS FOR SPEAKER COVERAGE REQUIREMENTS.
2. SUBWOOFERS SHALL BE MOUNTED DIRECTRLY ABOVE MAIN SPEAKERS AT THE FRONT OF THE ROOM. SET DSP ON AMPLIFIER TO ALIGN PHASING OF SUBWOOFERS WITH SPEAKERS.

DANCE ROOM SPEAKER ELEVATION

NO SCALE

2 / E4.14



SPEAKER WEIGHT 60 LBS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

SINGLE SPEAKER WALL MOUNTING DETAIL - STEERABLE SUSPENSION SYSTEM

NO SCALE

3 / E4.14

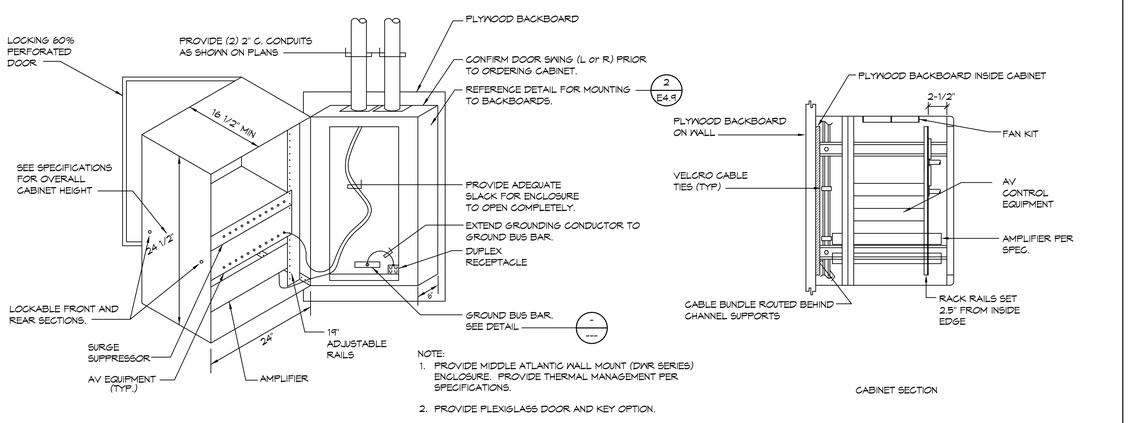
NOTES:

1. ATTACH SPEAKER MOUNT TO STUD PLATE PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE SAFETY CABLES IN LENGTH REQUIRED BY ADAPTIVE TECH. GROUP.

WALL MOUNTED SPEAKER DETAIL

NO SCALE

4 / E4.14



AUDIO-VISUAL / SOUND CABINET ELEVATION - DANCE ROOM

NO SCALE

5 / E4.14

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DANCE ROOM SOUND SYSTEM

NO.	DATE	ISSUE

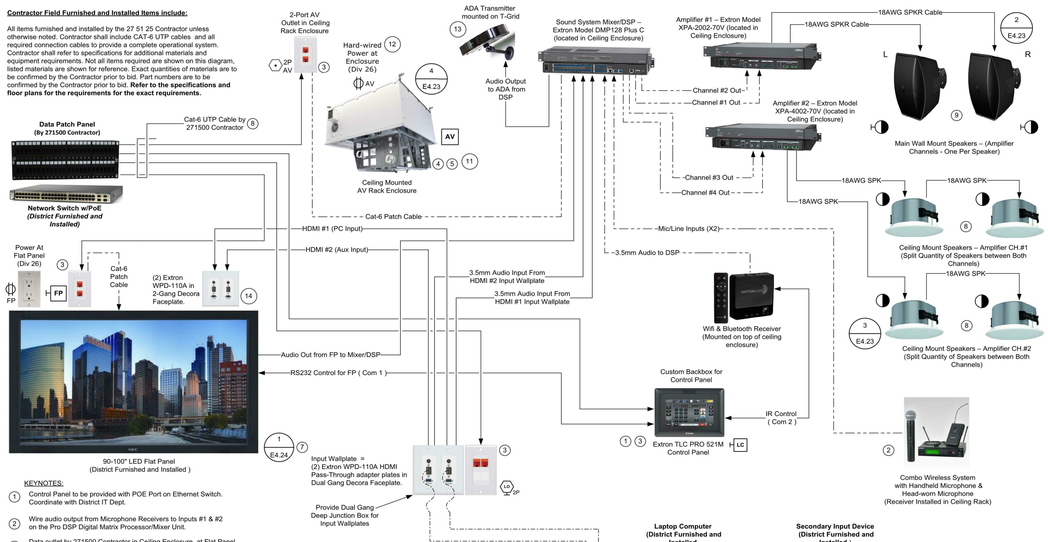
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Contractor Field Furnished and Installed Items include:

All items furnished and installed by the 27 51 25 Contractor unless otherwise noted. Contractor shall include CAT-6 UTP cables and all required connection cables to provide a complete operational system. Contractor shall refer to specifications for additional materials and equipment requirements. Not all items required are shown on this diagram, listed materials are shown for reference. Exact quantities of materials are to be confirmed by the Contractor prior to bid. Part numbers are to be confirmed by the Contractor prior to bid. **Refer to the specifications and floor plans for the requirements for the exact requirements.**



KEYNOTES:

1. Control Panel to be provided with POE Port on Ethernet Switch. Coordinate with District IT Dept.
2. Wire audio output from Microphone Receivers to Inputs #1 & #2 on the Pro DSP Digital Matrix Processor/Mixer Unit.
3. Data outlet by 271500 Contractor in Ceiling Enclosure, at Flat Panel, Control Panel and Input Wallplate locations. Terminate at Control Panel with RJ45 Insert only in J-Box.
4. Each type of equipment has it's own power supply connection.
5. Provide Ceiling Mounted 4-RU Rack w/o pole in accessible ceiling of the adjacent room. See specifications for additional requirements.
6. Provide cable loom wrap around patch cables from devices to the wallplates. See specifications for additional information.
7. Flat Panel and mount furnished and installed by District. See details and specifications for placement of J-Boxes in wall. J-Boxes will be provided at a different height than shown in Flat Panel Detail based on the exact mounting height for the District furnished panel. Coordinate with District prior to rough-in of J-Boxes.
8. Provide Ceiling Mount Speakers where shown on floor plans. Connect in series, at 70V to amplifier tapped at 30-33W each, based on speaker specifications. Split load for all speakers on both channels.

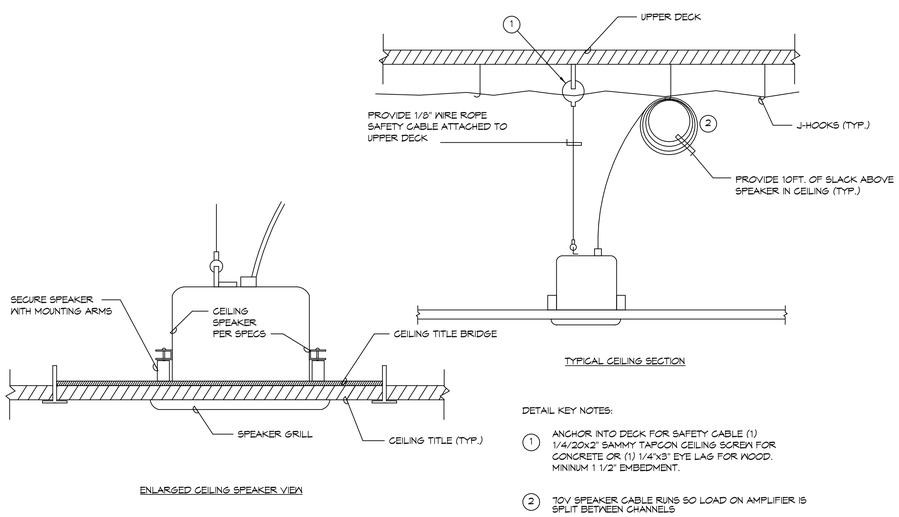
KEYNOTES (CONT.):

9. Provide Surface Mount Speakers where shown on floor plans. Connect one speaker per channel on the amplifier, tapped at 150W each.
10. Provide to Female HDMI to Male DisplayPort adapter for HDMI Input wallplate connection from Laptop or Doc Camera Input by Dynex Model #DX-PDP4502 or approved equal.
11. Provide Surge Suppressor, Smart Power and Fan options for ceiling mounted rack by FSR.
12. Power to Surge Suppressor and Outlet Strip to be hard-wired by Div. 26 Contractor. Coordinate with the Div. 26 Contractor for location of power connections.
13. Mount ADA Transmitter in the MPR Room above the Flat Panel @+10'0" A.F.F. Center transmitter above flat panel.
14. Provide HDMI Patch Cables from AV Wallplate behind Flat Panel to HDMI Inputs #1 and #2. Provide 90-Dregree connectors on patch cable for wallplate connections.

Multipurpose Room Flat Panel Audio-Visual System

MPR ROOM AUDIO-VISUAL SYSTEM
NO SCALE

1 / E4.15



TYPICAL CEILING SECTION

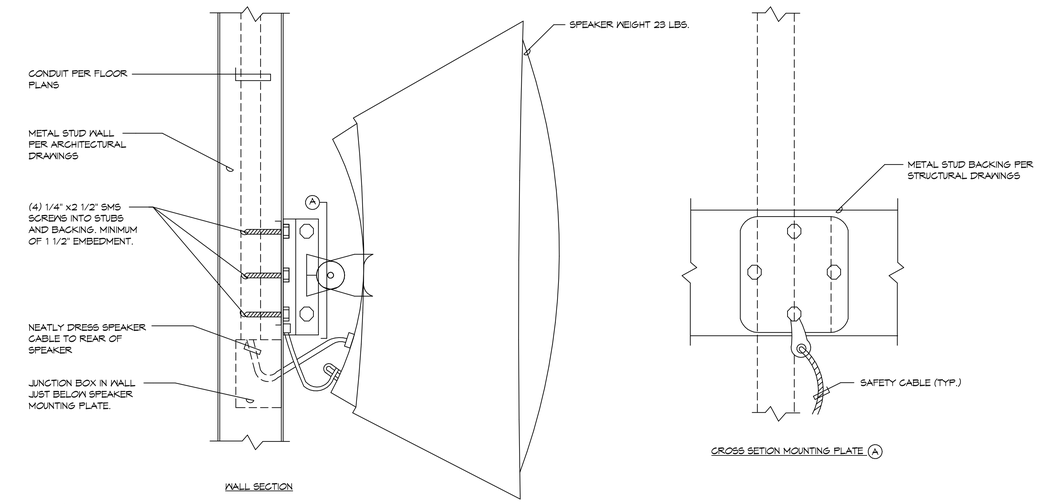
ENLARGED CEILING SPEAKER VIEW

DETAIL KEY NOTES:

1. ANCHOR INTO DECK FOR SAFETY CABLE (1) 1/4/20x2" SAMMY TAPCON CEILING SCREW FOR CONCRETE OR (1) 1/4"X3" EYE LAG FOR WOOD. MININUM 1 1/2" EMBEDMENT.
2. 70V SPEAKER CABLE RUNS SO LOAD ON AMPLIFIER IS SPLIT BETWEEN CHANNELS

MPR ROOM CEILING SPEAKER MOUNTING DETAIL
NO SCALE

3 / E4.15



WALL SECTION

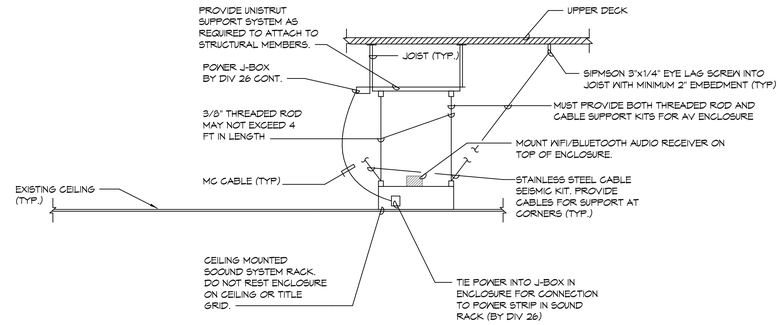
CROSS SETION MOUNTING PLATE (A)

NOTES:

1. ATTACH SPEAKER MOUNT TO STUD PLATE PER MANUFACTURER'S RECOMMENDATIONS. PRIOR TO INSTALLATION OF SPEAKER TO MOUNTING PLATE.
2. TOTAL WORKING LOAD LIMIT SHALL NOT EXCEED 25 LBS.
3. ATTACH SAFETY CABLE TO WALL MOUNTING PLATE FOR SPEAKER, BEHIND HEAD OF MOUNTING SCREEN.

WALL MOUNTED SPEAKER DETAIL - MPR ROOM SPEAKER MOUNTING
NO SCALE

2 / E4.15

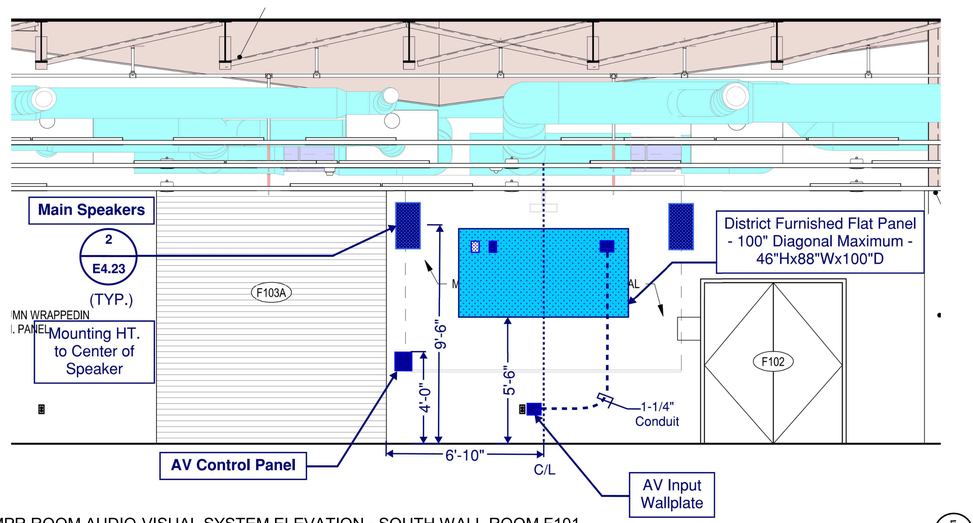


NOTES:

1. PROVIDE LENGTH OF THREADED ROD AND SUPPORT CABLES AS REQUIRED TO MAKE ATTACHMENT.
2. COORDINATE WITH ARCHITECTURAL FOR CEILING TILE AND T-GRID FOR PLACEMENT OF RACK.
3. CUT SECTION OF CEILING TILE REMOVED FOR DOOR OF CEILING MOUNTED SOUND RACK INSERT CEILING TILE PIECE IN DOOR OF ENCLOSURE TO MATCH CEILING. COORDINATE WITH CEILING CONTRACTOR.
4. PROVIDE CEILING MOUNTED SOUND RACK BY FSR MODEL #CB-2245 WITH SMART POWER OPTION, FAN, RACK RAIL HARDWARE KIT OPTION #CB-224RKRL AND BOTH THREADED ROD AND SUPPORT CABLES KITS.

MPR ROOM CEILING SOUND RACK IN CEILING
NO SCALE

4 / E4.15



MPR ROOM AUDIO-VISUAL SYSTEM ELEVATION - SOUTH WALL ROOM F101
NO SCALE

5 / E4.15

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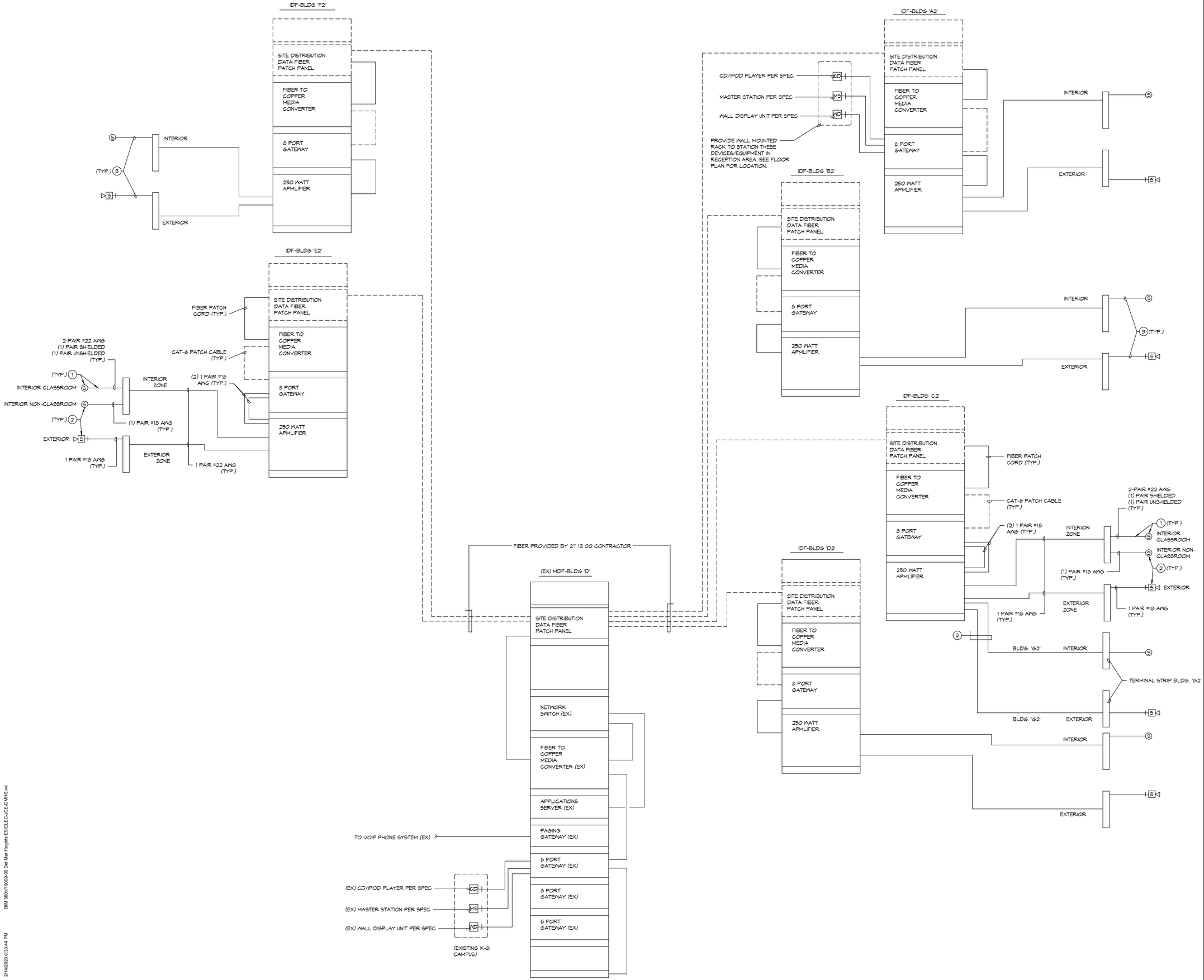
MPR ROOM AV SYSTEM DETAILS

NO.	DATE	ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E4.15

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

GENERAL NOTES:

1. ALL WIRE AND COMPONENTS PROVIDED BY 27 51 53 CONTRACTOR UNLESS OTHERWISE NOTED.

KEY NOTES:

(0) TYPICAL CONNECTION FROM TERMINAL STRIP TO EACH INTERIOR SPEAKER. INSTALL AND PROVIDE CONNECTION TO EACH SPEAKER AS REQUIRED. SEE FLOOR PLAN FOR EXACT LOCATIONS.

(0) TYPICAL CONNECTION FROM TERMINAL STRIP TO EACH EXTERIOR SPEAKER. INSTALL AND PROVIDE CONNECTION TO EACH SPEAKER AS REQUIRED. SEE FLOOR PLAN FOR EXACT LOCATIONS.

(0) FEED BUILDING 'G2' FROM BUILDING 'C2' AMPLIFIER. PROVIDE OSP-RATED SPEAKER CABLE TO COMM. CABINET IN BLDG. 'G2'. SPEAKER CABLE SHALL BE SIZED TO ALLOW FOR VOLTAGE DROP LOSS OVER TOTAL DISTANCE TO END POINT SPEAKER. TERMINATE CABLES ON TERMINAL STRIPS IN COMM. CABINET.

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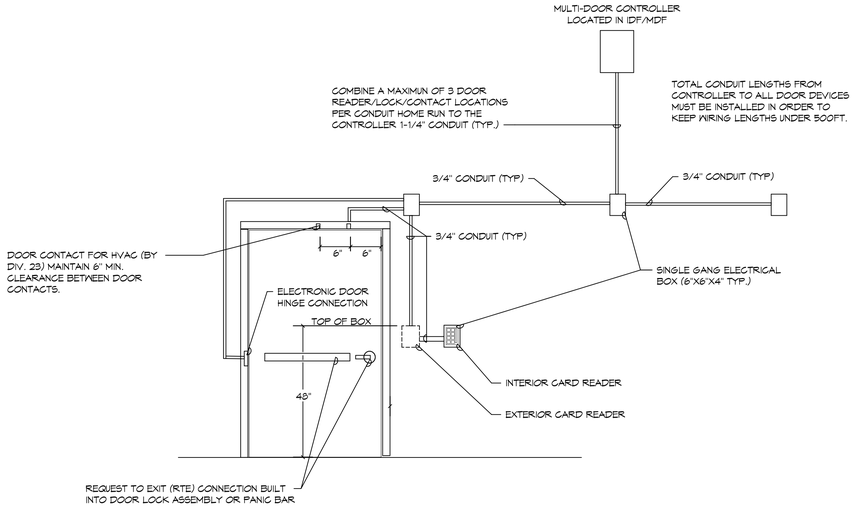
INTERCOM RISER

NO.	DATE	ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

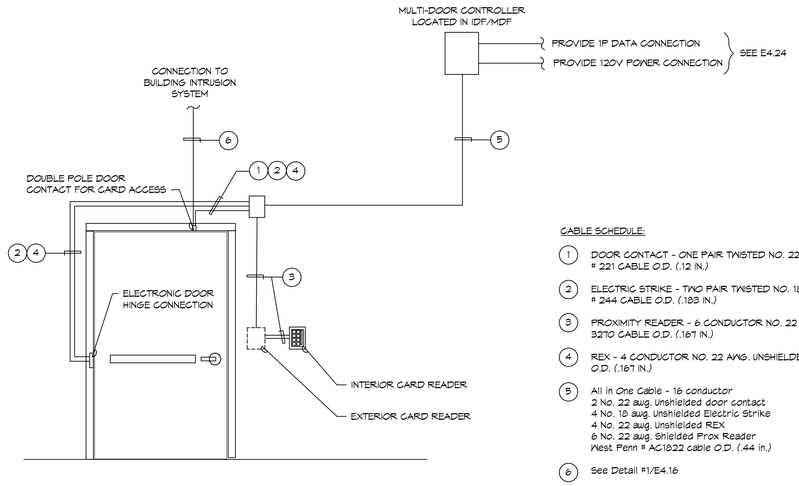
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E4.16

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TYPICAL ACCESS CONTROL REQUIREMENTS - SINGLE DOOR - INTERIOR AND EXTERIOR READER CONFIGURATION 'A' — 1 / E4.17

NO SCALE

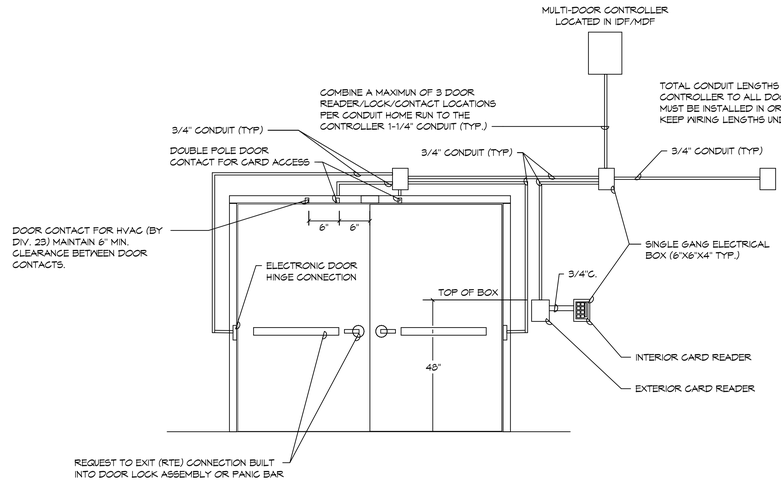


CABLE SCHEDULE:

1. DOOR CONTACT - ONE PAIR TWISTED NO. 22 AWG. UNSHIELDED WEST PENN # 221 CABLE O.D. (.12 IN.)
2. ELECTRIC STRIKE - TWO PAIR TWISTED NO. 18 AWG. UNSHIELDED WEST PENN # 244 CABLE O.D. (.183 IN.)
3. PROXIMITY READER - 6 CONDUCTOR NO. 22 AWG. SHIELDED WEST PENN # 3270 CABLE O.D. (.167 IN.)
4. REX - 4 CONDUCTOR NO. 22 AWG. UNSHIELDED WEST PENN # 241 CABLE O.D. (.167 IN.)
5. All in One Cable - 16 conductor
   2 No. 22 awg. Unshielded door contact
   4 No. 18 awg. Unshielded Electric Strike
   4 No. 22 awg. Unshielded REX
   6 No. 22 awg. Shielded Prox Reader
   West Penn # AC1822 cable O.D. (.44 in.)
6. See Detail #1/E4.16

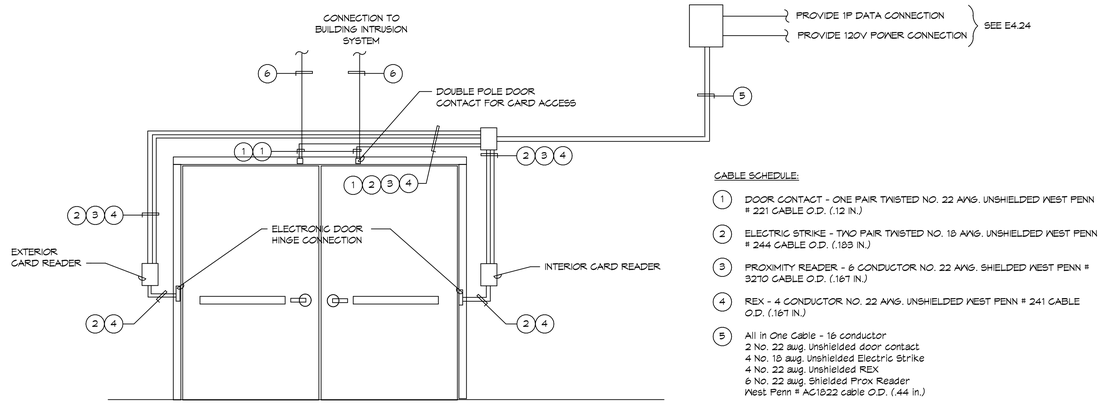
TYPICAL ACCESS CONTROL REQUIREMENTS - TYPICAL WIRING DIAGRAM CONFIGURATION 'A' — 2 / E4.17

NO SCALE



TYPICAL ACCESS CONTROL REQUIREMENTS-DOUBLE DOOR-INTERIOR AND EXTERIOR READER CONFIGURATION 'B' — 3 / E4.17

NO SCALE

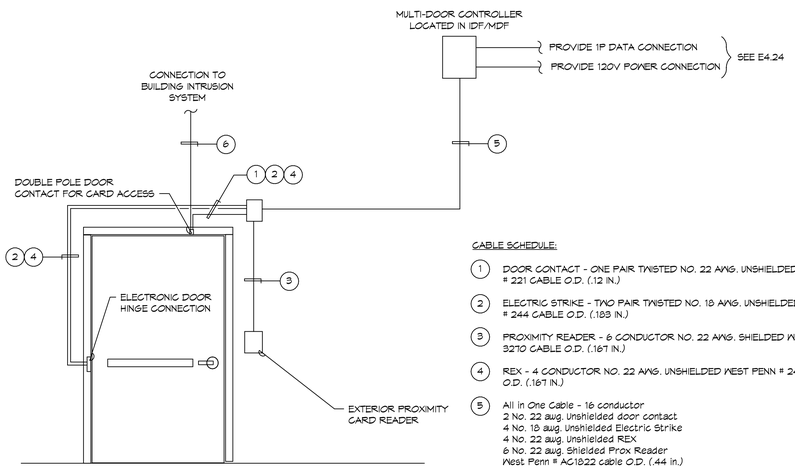


CABLE SCHEDULE:

1. DOOR CONTACT - ONE PAIR TWISTED NO. 22 AWG. UNSHIELDED WEST PENN # 221 CABLE O.D. (.12 IN.)
2. ELECTRIC STRIKE - TWO PAIR TWISTED NO. 18 AWG. UNSHIELDED WEST PENN # 244 CABLE O.D. (.183 IN.)
3. PROXIMITY READER - 6 CONDUCTOR NO. 22 AWG. SHIELDED WEST PENN # 3270 CABLE O.D. (.167 IN.)
4. REX - 4 CONDUCTOR NO. 22 AWG. UNSHIELDED WEST PENN # 241 CABLE O.D. (.167 IN.)
5. All in One Cable - 16 conductor
   2 No. 22 awg. Unshielded door contact
   4 No. 18 awg. Unshielded Electric Strike
   4 No. 22 awg. Unshielded REX
   6 No. 22 awg. Shielded Prox Reader
   West Penn # AC1822 cable O.D. (.44 in.)
6. See Detail #1/E4.16

TYPICAL ACCESS CONTROL REQUIREMENTS - DOUBLE DOOR INSTALLATION CONFIGURATION 'B' — 4 / E4.17

NO SCALE

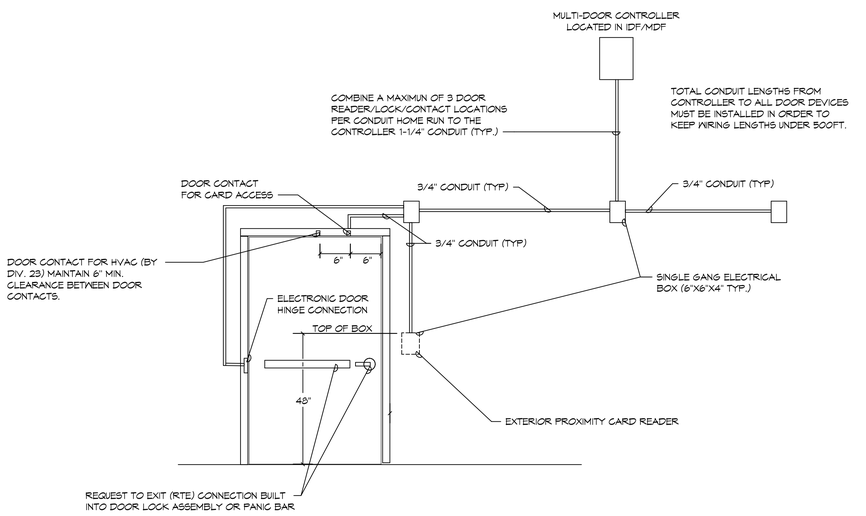


CABLE SCHEDULE:

1. DOOR CONTACT - ONE PAIR TWISTED NO. 22 AWG. UNSHIELDED WEST PENN # 221 CABLE O.D. (.12 IN.)
2. ELECTRIC STRIKE - TWO PAIR TWISTED NO. 18 AWG. UNSHIELDED WEST PENN # 244 CABLE O.D. (.183 IN.)
3. PROXIMITY READER - 6 CONDUCTOR NO. 22 AWG. SHIELDED WEST PENN # 3270 CABLE O.D. (.167 IN.)
4. REX - 4 CONDUCTOR NO. 22 AWG. UNSHIELDED WEST PENN # 241 CABLE O.D. (.167 IN.)
5. All in One Cable - 16 conductor
   2 No. 22 awg. Unshielded door contact
   4 No. 18 awg. Unshielded Electric Strike
   4 No. 22 awg. Unshielded REX
   6 No. 22 awg. Shielded Prox Reader
   West Penn # AC1822 cable O.D. (.44 in.)
6. See Detail #1/E4.16

TYPICAL ACCESS CONTROL REQUIREMENTS - TYPICAL WIRING DIAGRAM CONFIGURATION 'C' — 5 / E4.17

NO SCALE



TYPICAL ACCESS CONTROL REQUIREMENTS - SINGLE DOOR - EXTERIOR READER ONLY CONFIGURATION 'C' — 6 / E4.17

NO SCALE

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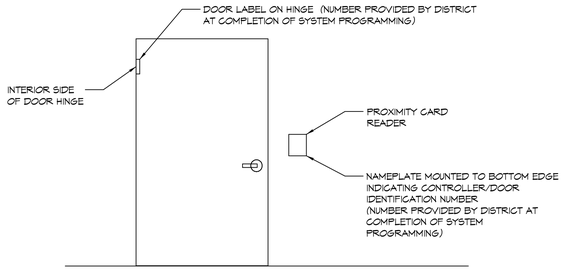
ACCESS CONTROL DETAILS

NO.	DATE	ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

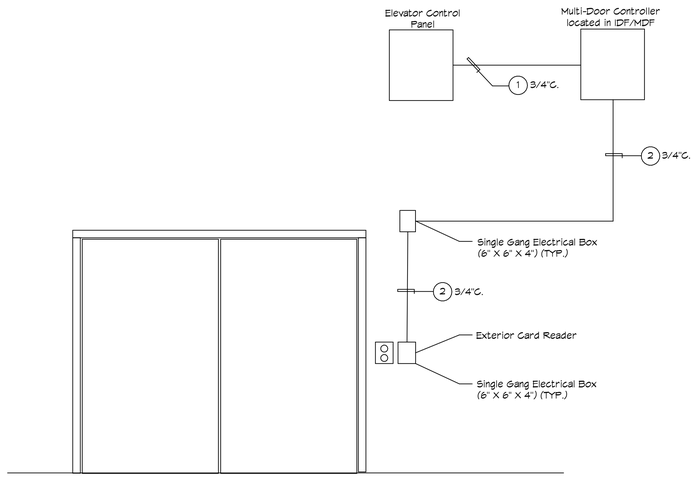
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TYPICAL LABELING DETAIL - CARD ACCESS
NO SCALE

1
E4.18



Combine a maximum of 2 Door Reader Locations per Conduit Homerun to the Controller

CABLE SCHEDULE:

1. As required by Elevator Contractor.
2. Proximity Reader - 6 Conductor No. 22 awg Shielded West Penn #3270 Cable O.D. (.167 in.)

ACCESS CONTROL SYSTEM REQUIREMENTS - ELEVATOR
NO SCALE

2
E4.18

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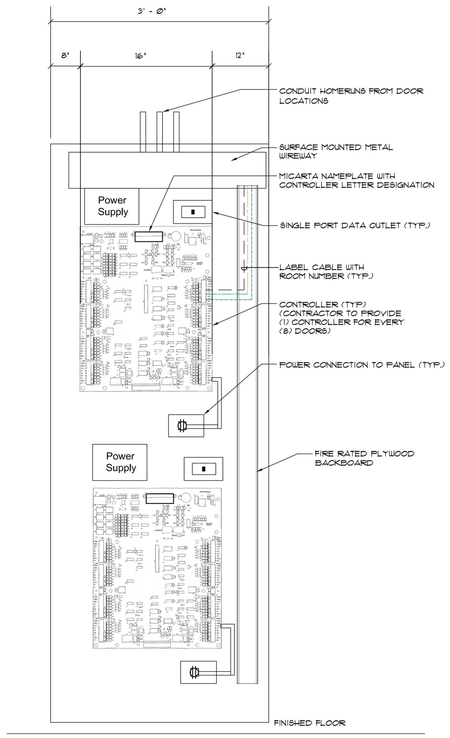
ACCESS CONTROL DETAILS

NO.	DATE	ISSUE

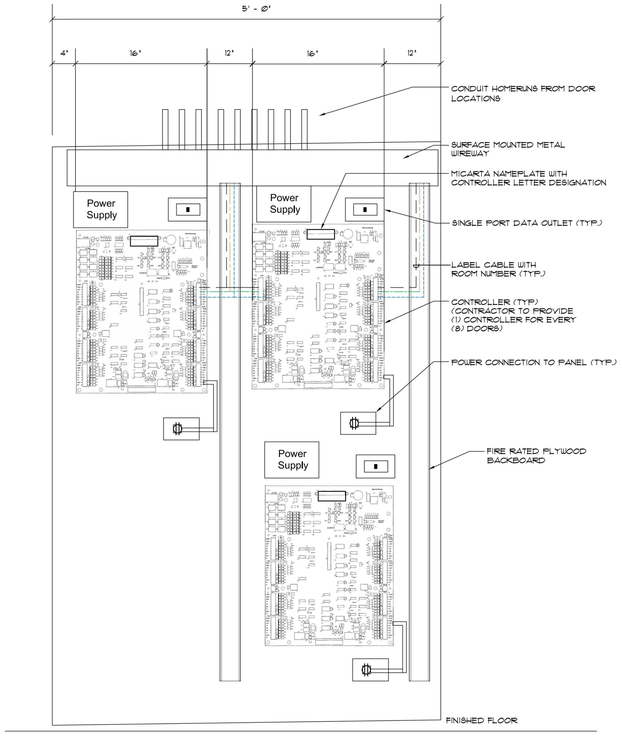
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DATE: 08/31/2019

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E4.18

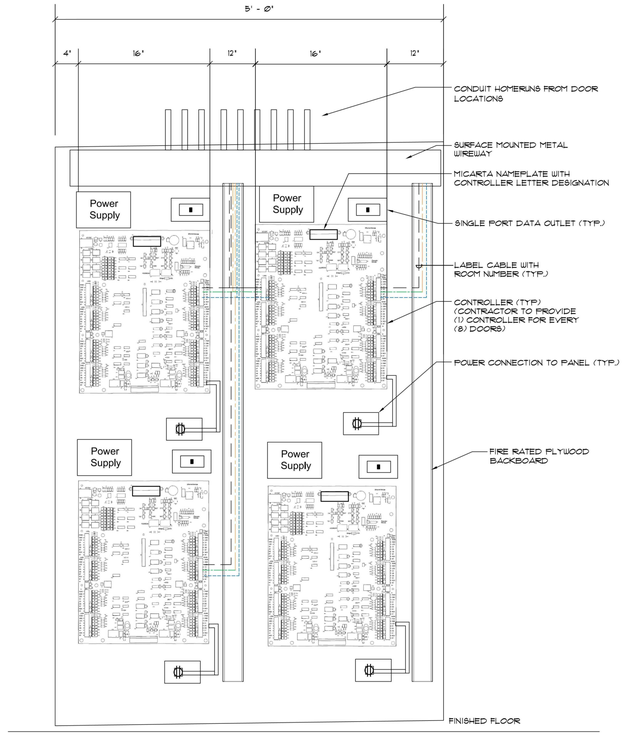
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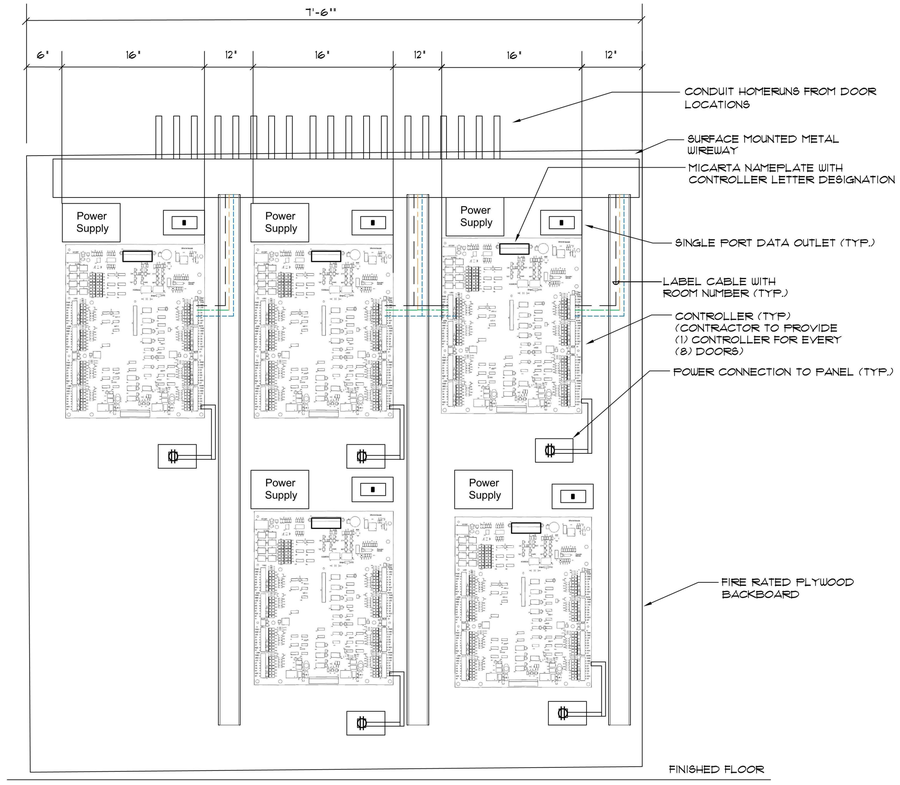
TYPICAL CARD ACCESS CONTROLLER MOUNTING OPTION 1 — 1 / E4.19
NO SCALE



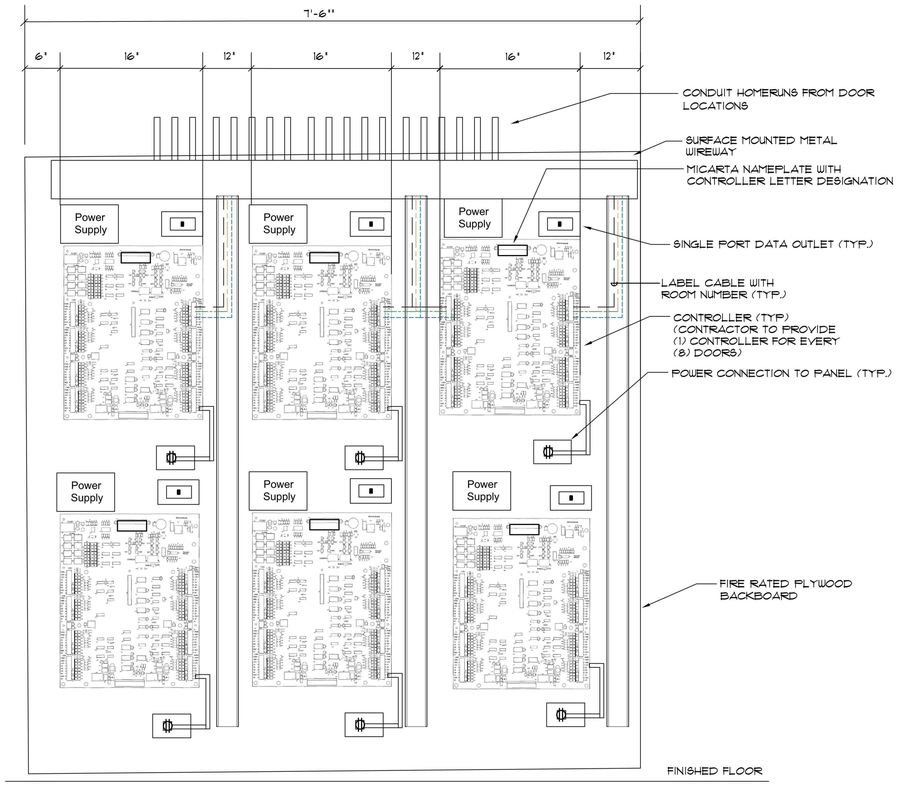
TYPICAL CARD ACCESS CONTROLLER MOUNTING OPTION 2 — 2 / E4.19
NO SCALE



TYPICAL CARD ACCESS CONTROLLER MOUNTING OPTION 3 — 3 / E4.19
NO SCALE



TYPICAL CARD ACCESS CONTROLLER MOUNTING OPTION 4 — 4 / E4.19
NO SCALE



TYPICAL CARD ACCESS CONTROLLER MOUNTING OPTION 5 — 5 / E4.19
NO SCALE

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REGISTERED PROFESSIONAL ENGINEER — MARIANNE ROSSE-HANSEN — NO.E 14781 — Exp. 6-30-2019 — ELECTRICAL — STATE OF CALIFORNIA
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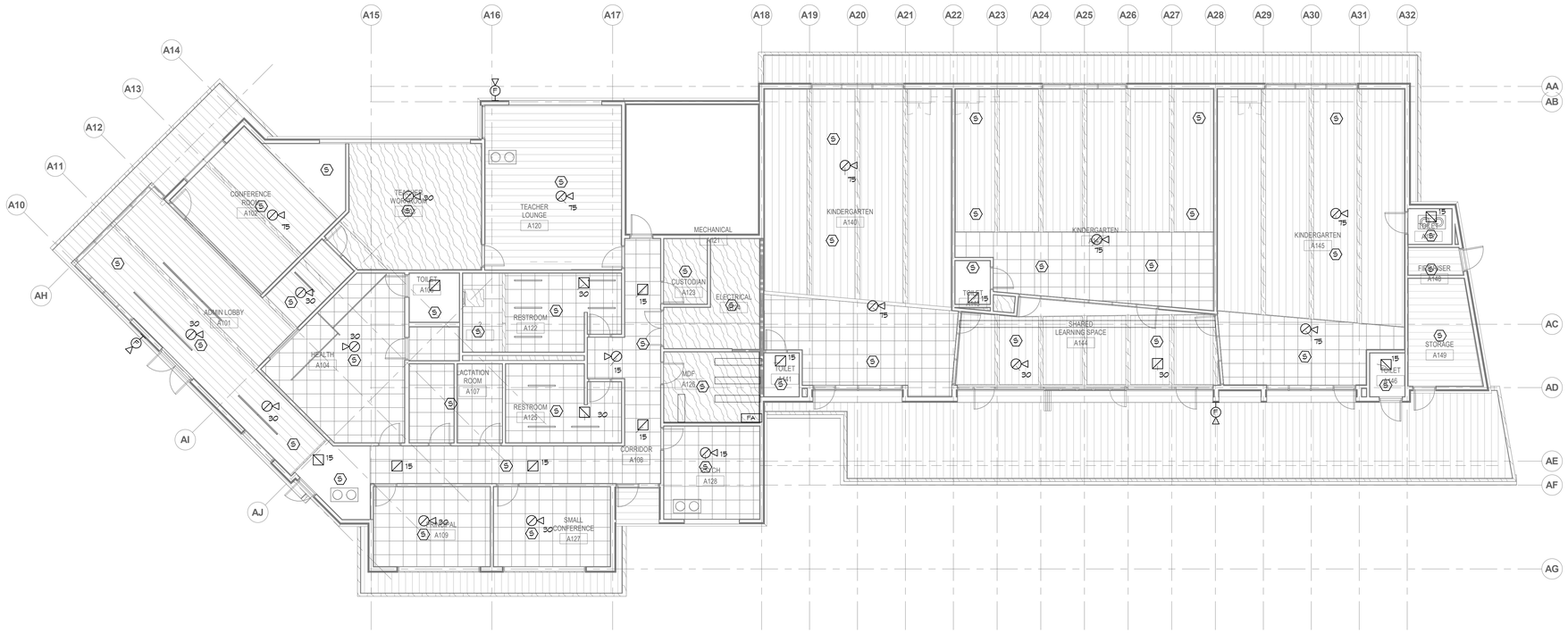
ACCESS CONTROL DETAILS

NO.	DATE	ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

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2 FLOOR PLAN BLDG A - FIRE ALARM

1/8" = 1'-0"

FIRE ALARM SYMBOLS LEGEND:

- MANUAL PULL STATION MOUNTED BETWEEN 42" TO 48" A.F.F. TO HIGHEST POINT OF OPERATING HANDLE OR LEVER OF DEVICE.
- WALL MOUNTED FLASHING LIGHT STROBE MOUNTED +80"-96" A.F.F. OR 6" BELOW CEILING TO BOTTOM OF DEVICE WHICHEVER IS LOWER. ENTIRE LENS MUST BE WITHIN THE +80"-96" DIMENSION. (15 = STROBE CANDELA RATING) (SI = SIGNAL CIRCUIT IDENTIFICATION)
- WALL MOUNTED FLASHING LIGHT STROBE MOUNTED +80"-96" A.F.F. OR 6" BELOW CEILING TO BOTTOM OF DEVICE WHICHEVER IS LOWER. ENTIRE LENS MUST BE WITHIN THE +80"-96" DIMENSION. (15 = STROBE CANDELA RATING) (SI = SIGNAL CIRCUIT IDENTIFICATION)
- WALL MOUNTED SPEAKER/STROBE MOUNTED +80"-96" A.F.F. OR 6" BELOW CEILING TO BOTTOM OF DEVICE WHICHEVER IS LOWER. ENTIRE LENS MUST BE WITHIN THE +80"-96" DIMENSION. (15 = STROBE CANDELA RATING) (SI = SIGNAL CIRCUIT IDENTIFICATION) TAP AT 1/4 WATT (U.O.N.)
- WALL MOUNTED SPEAKER ONLY MOUNTED +80"-96" A.F.F. OR 6" BELOW CEILING TO BOTTOM OF DEVICE WHICHEVER IS LOWER. ENTIRE LENS MUST BE WITHIN THE +80"-96" DIMENSION. (15 = STROBE CANDELA RATING) (SI = SIGNAL CIRCUIT IDENTIFICATION) TAP AT 1/4 WATT (U.O.N.)
- CEILING MOUNTED FLASHING LIGHT STROBE (15 = STROBE CANDELA RATING) (SI = SIGNAL CIRCUIT IDENTIFICATION)
- CEILING MOUNTED COMBINATION HORN/STROBE (15 = STROBE CANDELA RATING) (SI = SIGNAL CIRCUIT IDENTIFICATION)
- CEILING MOUNTED COMBINATION HORN/STROBE (15 = STROBE CANDELA RATING) (SI = SIGNAL CIRCUIT IDENTIFICATION) TAP AT 1/4 WATT (U.O.N.)
- CEILING MOUNTED SPEAKER ONLY (15 = STROBE CANDELA RATING) (SI = SIGNAL CIRCUIT IDENTIFICATION) TAP AT 1/4 WATT (U.O.N.)
- WALL MOUNTED WEATHERPROOF EXTERIOR SPEAKER MOUNTED +90" A.F.F. TO BOTTOM OF DEVICE (SI = SIGNAL CIRCUIT IDENTIFICATION) SEE TYPICAL DETAIL 2/E5.7
- BEAM DETECTOR TRANSMITTER
- BEAM DETECTOR RECEIVER
- CEILING MOUNTED SMOKE DETECTOR
- CEILING MOUNTED CO/SMOKE DETECTOR
- CEILING MOUNTED HEAT DETECTOR
- HEAT DETECTOR MOUNTED ABOVE CEILING (SEE GENERAL NOTE #6)
- DUCT TYPE SMOKE DETECTOR IN SUPPLY DUCT, SEE DETAIL 1/E5.7 (U.O.N.)
- SMOKE DAMPER CONNECTION, SEE DETAIL 1/E5.7 (U.O.N.)
- FACP MAIN FIRE ALARM CONTROL PANEL
- FA REMOTE FIRE ALARM POWER EXTENDER
- KHS KITCHEN HOOD FIRE SUPPRESSION SYSTEM CONTROL PANEL
- ANN REMOTE ANNUNCIATOR
- FS FLOW SWITCH WITH M
- TS TAMPER SWITCH WITH M
- DSM DUAL SYNC MODULE (SEE RISER DIAGRAM FOR LOCATION)
- R ADDRESSABLE RELAY MODULE
- M ADDRESSABLE MONITOR MODULE
- EOL END OF LINE RESISTOR

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

GENERAL NOTES:

1. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED DEVICES.
2. REFERENCE E5 AND E8 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
3. REFERENCE RISER DIAGRAMS FOR TYPICAL CONDUIT SIZES AND INITIATION ZONE CIRCUIT IDENTIFICATIONS.
4. REFERENCE MECHANICAL PLANS FOR EXACT LOCTION OF ALL DUCT DETECTORS AND SMOKE DAMPER LOCATIONS.
5. UNLESS OTHERWISE NOTED SOLID LINES BETWEEN DEVICES SHALL BE 1" E.M.T. ROUTED CONCEALED ABOVE CEILINGS OR IN WALLS. DASHED LINES INDICATE 1" P.V.C. UNDERGROUND CONDUIT. ALL WIRING TO BE PROVIDED PER MANUFACTURER SHOP DRAWINGS.
6. CONTRACTOR SHALL PROVIDE CEILING ACCESS PANEL AT ALL NON-LAYIN TYPE CEILINGS, WHERE HEAT DETECTOR ABOVE CEILING IS INDICATED.
7. PROVIDE WIRE PROTECTIVE GUARD OVER ALL FIRE ALARM DEVICES LOCATED IN THE FOLLOWING AREAS: GYMNASIUM, LOCKER ROOMS, SHOP AREAS, AND ANY OTHER AREA WHERE DEVICES MAY BE SUBJECT TO CONTACT.

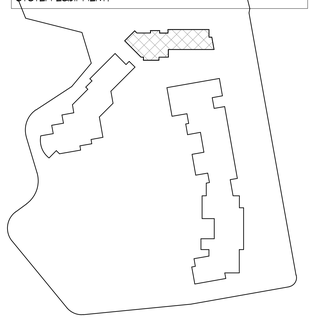
KEY NOTES:

1. PROVIDE DEDICATED 120 VOLT CIRCUIT TO PANEL CONNECT TO "LOCK ON BREAKER". REFER TO POWER E3 SERIES SHEETS FOR CIRCUIT INFORMATION.
2. PROVIDE CONNECTION TO "FACP", REFER TO SITE PLAN SHEET E5.0.
3. FIRE/SMOKE DAMPERS ARE SHOWN FOR INFORMATION ONLY, FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, POWERED (120 VAC) BY ELECTRICAL. REFER TO POWER PLANS E3 SERIES FOR CIRCUIT INFORMATION. FIRE ALARM CONTRACTOR SHALL INTERRUPT 120 VAC AT SOURCE (ELECTRICAL PANEL). ALL FSD'S SHALL CLOSE ON THE RESPECTIVE BUILDING WHEN ANY ALARM IS ACTIVATED ON THE BUILDING.
4. FOR CONTROL OF FIRE/SMOKE DAMPERS (MAXIMUM OF 8 ON EACH RELAY MODULE)

FIRE ALARM NOTE:
THIS FIRE ALARM DESIGN IS A COMPLETE PLAN SUBMITTAL IN ACCORDANCE WITH 2016 CBC 907.1.

FULLY AUTOMATIC FIRE ALARM DESIGN:
THIS PROJECT IS DESIGNED TO COMPLY WITH ALL REQUIREMENTS FOR A FULLY PROTECTED AUTOMATIC FIRE ALARM SYSTEM.

EXPANSION OF EXISTING SYSTEM:
THIS PROJECT ADDS TO AND OR MODIFIES AN EXISTING ~~SYSTEM, PREVIOUSLY APPROVED BY DSA. ALL NEW~~ COMPONENTS ARE COMPATIBLE WITH THE EXISTING SYSTEM EQUIPMENT.



REGISTERED PROFESSIONAL ENGINEER
MICHAEL GOESE-HANSEN
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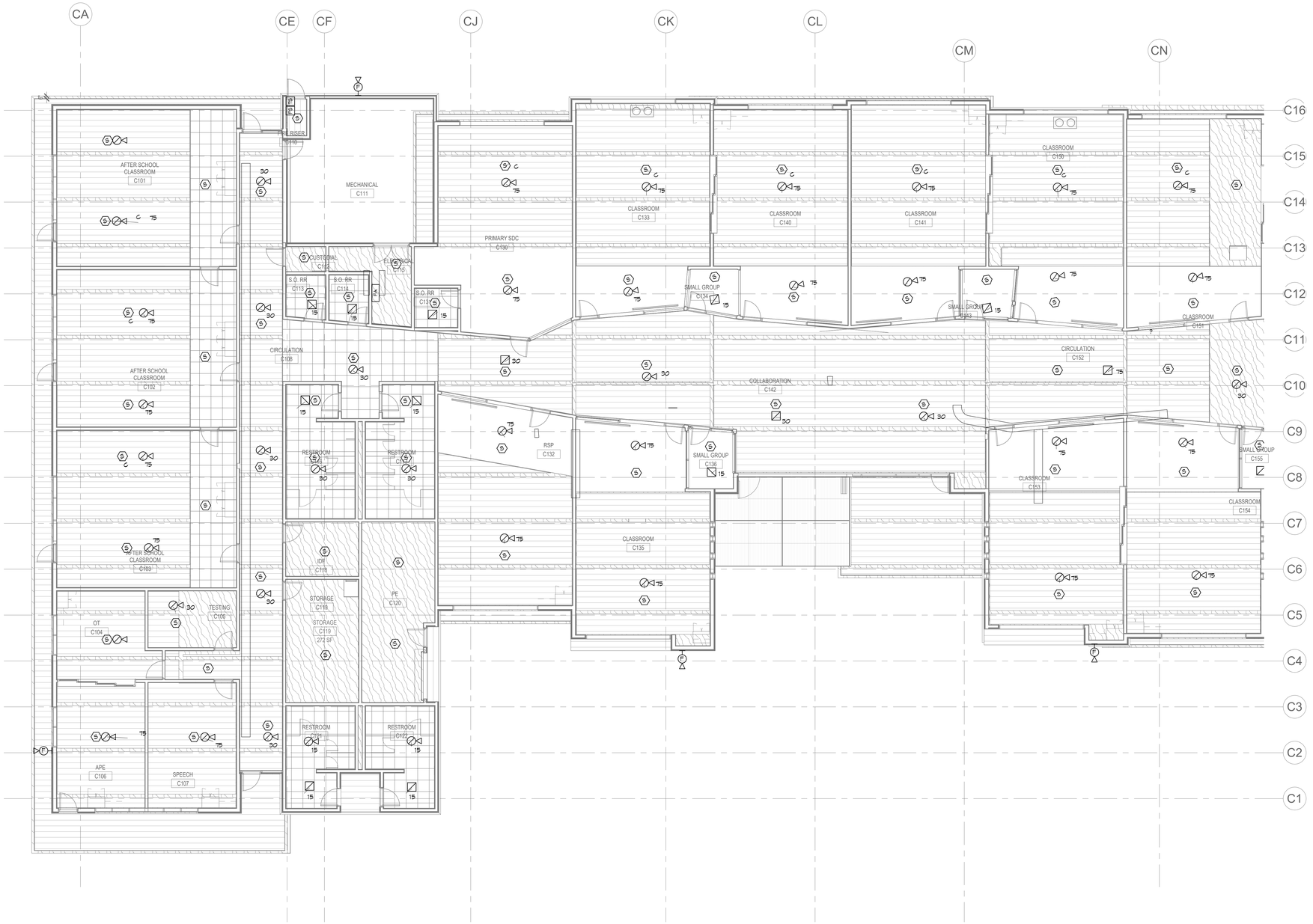
FLOOR PLAN BLDG A - FIRE ALARM

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E5.1

2/14/2020 6:30:55 PM BIM 360://19009-00 Del Mar Heights ES/ELEC-JCE-DMHS.rvt



FIRE ALARM SYMBOLS LEGEND:

- MANUAL PULL STATION MOUNTED BETWEEN 42" TO 48" A.F.F. TO HIGHEST POINT OF OPERATING HANDLE OR LEVER OF DEVICE.
- WALL MOUNTED FLASHING LIGHT STROBE MOUNTED +80"-96" A.F.F. OR 6" BELOW CEILING TO BOTTOM OF DEVICE WHICHEVER IS LOWER. ENTIRE LENS MUST BE WITHIN THE +80"-96" DIMENSION. (15 = STROBE CANDELA RATING) (SI = SIGNAL CIRCUIT IDENTIFICATION)
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- CEILING MOUNTED FLASHING LIGHT STROBE (15 = STROBE CANDELA RATING) (SI = SIGNAL CIRCUIT IDENTIFICATION)
- CEILING MOUNTED COMBINATION HORN/STROBE (15 = STROBE CANDELA RATING) (SI = SIGNAL CIRCUIT IDENTIFICATION)
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- WALL MOUNTED WEATHERPROOF EXTERIOR SPEAKER MOUNTED +90" A.F.F. TO BOTTOM OF DEVICE (SI = SIGNAL CIRCUIT IDENTIFICATION) SEE TYPICAL DETAIL
- BEAM DETECTOR TRANSMITTER
- BEAM DETECTOR RECEIVER
- CEILING MOUNTED SMOKE DETECTOR
- CEILING MOUNTED CO/SMOKE DETECTOR
- CEILING MOUNTED HEAT DETECTOR
- HEAT DETECTOR MOUNTED ABOVE CEILING (SEE GENERAL NOTE #6)
- DUCT TYPE SMOKE DETECTOR IN SUPPLY DUCT, SEE DETAIL (U.O.N.)
- SMOKE DAMPER CONNECTION, SEE DETAIL (U.O.N.)
- FACP MAIN FIRE ALARM CONTROL PANEL
- FA REMOTE FIRE ALARM POWER EXTENDER
- KHS KITCHEN HOOD FIRE SUPPRESSION SYSTEM CONTROL PANEL
- ANN REMOTE ANNUNCIATOR
- FS FLOW SWITCH WITH M
- TS TAMPER SWITCH WITH M
- DSM DUAL SYNC MODULE (SEE RISER DIAGRAM FOR LOCATION)
- R ADDRESSABLE RELAY MODULE
- M ADDRESSABLE MONITOR MODULE
- EOL END OF LINE RESISTOR

1 FLOOR PLAN BLDG C NORTH - FIRE ALARM
1/8" = 1'-0"

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

GENERAL NOTES:

1. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT LOCATION OF ALL WALL MOUNTED DEVICES.
2. REFERENCE E5 AND E8 SERIES SHEETS FOR TYPICAL CONDUIT AND BACKBOX INSTALLATION DETAILS.
3. REFERENCE RISER DIAGRAMS FOR TYPICAL CONDUIT SIZES AND INITIATION ZONE CIRCUIT IDENTIFICATIONS.
4. REFERENCE MECHANICAL PLANS FOR EXACT LOCTION OF ALL DUCT DETECTORS AND SMOKE DAMPER LOCATIONS.
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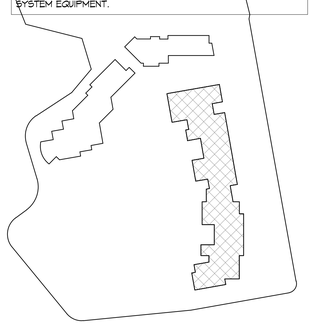
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FLOOR PLAN BLDG C
NORTH - FIRE ALARM

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E5.2

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1 FLOOR PLAN BLDG C SOUTH - FIRE ALARM
1/8" = 1'-0"

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

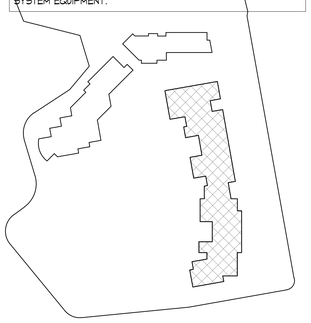
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4. REFERENCE MECHANICAL PLANS FOR EXACT LOCTION OF ALL DUCT DETECTORS AND SMOKE DAMPER LOCATIONS.
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FLOOR PLAN BLDG C
SOUTH - FIRE ALARM

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E5.3



1 FLOOR PLAN BLDG M EAST - FIRE ALARM
1/8" = 1'-0"

FIRE ALARM SYMBOLS LEGEND:

- MANUAL PULL STATION MOUNTED BETWEEN 42" TO 48" A.F.F. TO HIGHEST POINT OF OPERATING HANDLE OR LEVER OF DEVICE.
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- BEAM DETECTOR TRANSMITTER
- BEAM DETECTOR RECEIVER
- CEILING MOUNTED SMOKE DETECTOR
- CEILING MOUNTED CO/SMOKE DETECTOR
- CEILING MOUNTED HEAT DETECTOR
- HEAT DETECTOR MOUNTED ABOVE CEILING (SEE GENERAL NOTE #6)
- DUCT TYPE SMOKE DETECTOR IN SUPPLY DUCT, SEE DETAIL (U.O.N.)
- SMOKE DAMPER CONNECTION, SEE DETAIL (U.O.N.)

FACP	MAIN FIRE ALARM CONTROL PANEL
FA	REMOTE FIRE ALARM POWER EXTENDER
KHS	KITCHEN HOOD FIRE SUPPRESSION SYSTEM CONTROL PANEL
ANN	REMOTE ANNUNCIATOR
FS	FLOW SWITCH WITH [M]
TS	TAMPER SWITCH WITH [M]
DSM	DUAL SYNC MODULE (SEE RISER DIAGRAM FOR LOCATION)
R	ADDRESSABLE RELAY MODULE
M	ADDRESSABLE MONITOR MODULE
EOL	END OF LINE RESISTOR

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

GENERAL NOTES:

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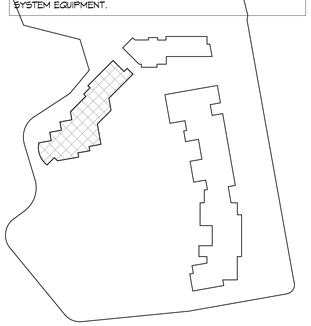
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FLOOR PLAN BLDG M EAST - FIRE ALARM

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E5.4

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1 FLOOR PLAN BLDG M WEST - FIRE ALARM
1/8" = 1'-0"

FIRE ALARM SYMBOLS LEGEND:

- MANUAL PULL STATION MOUNTED BETWEEN 42" TO 48" A.F.F. TO HIGHEST POINT OF OPERATING HANDLE OR LEVER OF DEVICE.
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- KHS — KITCHEN HOOD FIRE SUPPRESSION SYSTEM CONTROL PANEL
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DEL MAR HEIGHTS SCHOOL

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6. CONTRACTOR SHALL PROVIDE CEILING ACCESS PANEL AT ALL NON-LAYIN TYPE CEILINGS, WHERE HEAT DETECTOR ABOVE CEILING IS INDICATED.
7. PROVIDE WIRE PROTECTIVE GUARD OVER ALL FIRE ALARM DEVICES LOCATED IN THE FOLLOWING AREAS: GYMNASIUM, LOCKER ROOMS, SHOP AREAS, AND ANY OTHER AREA WHERE DEVICES MAY BE SUBJECT TO CONTACT.

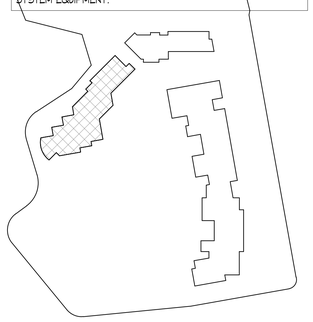
KEY NOTES:

1. PROVIDE DEDICATED 120 VOLT CIRCUIT TO PANEL CONNECT TO "LOCK ON BREAKER". REFER TO POWER E3 SERIES SHEETS FOR CIRCUIT INFORMATION.
2. PROVIDE CONNECTION TO "FACP", REFER TO SITE PLAN SHEET E5.0.
3. FIRE/SMOKE DAMPERS ARE SHOWN FOR INFORMATION ONLY, FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, POWERED (120 VAC) BY ELECTRICAL. REFER TO POWER PLANS E3 SERIES FOR CIRCUIT INFORMATION. FIRE ALARM CONTRACTOR SHALL INTERRUPT 120 VAC AT SOURCE (ELECTRICAL PANEL). ALL FSD'S SHALL CLOSE ON THE RESPECTIVE BUILDING WHEN ANY ALARM IS ACTIVATED ON THE BUILDING.
4. FOR CONTROL OF FIRE/SMOKE DAMPERS (MAXIMUM OF 8 ON EACH RELAY MODULE)

FIRE ALARM NOTE:
THIS FIRE ALARM DESIGN IS A COMPLETE PLAN SUBMITTAL IN ACCORDANCE WITH 2016 CBC 907.1.

FULLY AUTOMATIC FIRE ALARM DESIGN:
THIS PROJECT IS DESIGNED TO COMPLY WITH ALL REQUIREMENTS FOR A FULLY PROTECTED AUTOMATIC FIRE ALARM SYSTEM.

EXPANSION OF EXISTING SYSTEM:
THIS PROJECT ADDS TO AND OR MODIFIES AN EXISTING SYSTEM, PREVIOUSLY APPROVED BY DSA. ALL NEW COMPONENTS ARE COMPATIBLE WITH THE EXISTING SYSTEM EQUIPMENT.



REGISTERED PROFESSIONAL ENGINEER
MICHAEL GREGG-HANSEN
NO.E 14781
Exp. 6-30-2021
ELECTRICAL
STATE OF CALIFORNIA

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FLOOR PLAN BLDG M WEST - FIRE ALARM

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E5.5

BIM 360://19009-00 Del Mar Heights ES/ELEC-JCE-DMHS.rvt
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FCI MODEL E3

	SYM	MODEL NO.	DESCRIPTION	C.S.F.M. LISTING	MFG.
001	FACP	FCI-E3	FIRE ALARM CONTROL PANEL/VOICE EVAC	7165-1703:0125	GAMEWELL FCI
002	FA	HPF24S8	REMOTE POWER SUPPLY	7315-1637:0102	HONEYWELL
003	TP	INX	TRANSPONDER PANEL	7165-1703:0125	GAMEWELL FCI
004	SM	SERIES DMS	SYNC MODULE	7300-0785:0132	COOPER WHEELOCK
			BATTERIES	7165-1703:0125	GAMEWELL FCI
005	ANN	RAN-7100	REMOTE ANNUNCIATOR	7165-1703:0125	GAMEWELL FCI
006	MF	MS-7AF	MANUAL PULL STATION - ADDRESSABLE	7150-1703:0119	GAMEWELL FCI
007	S	ASD-PL2F	INTELLIGENT SMOKE DETECTOR	7272-1703:0121	GAMEWELL FCI
		B210LP	SENSOR BASE		GAMEWELL FCI
008	S	ASD-PLFR	DUCT DETECTOR - ADDRESSABLE	7272-1703:0121	GAMEWELL FCI
009	H	ATD-RL2F	INTELLIGENT HEAT DETECTOR	7270-1703:0115	GAMEWELL FCI
		B210LP	SENSOR BASE		GAMEWELL FCI
010	HA	ATD-HL2F	INTELLIGENT HEAT DETECTOR (ABOVE CEILING)	7270-1703:0115	GAMEWELL FCI
		B501	SENSOR BASE		
011	MBT	50RU/100RU	BEAM SMOKE DETECTOR TRANSMITTER	7260-1508:0102	FIRE FIGHTING ENT.
012	MBR	REFLECTOR		7260-1508:0102	FIRE FIGHTING ENT.
013	FS	WFDN	WATERFLOW SWITCH	7770-1653:0231	SYSTEM SENSOR
014	TS	P1BV2	TAMPER SWITCH	7770-1653:0118	SYSTEM SENSOR
015	HF	AH	EXTERIOR HORN	7125-0785:0131	COOPER WHEELOCK
		WFP	EXTERIOR FLUSH PLATE (PART OF ABOVE)		COOPER WHEELOCK
016	HS	ET1010	EXTERIOR SPEAKER W/WBB BACKBOX	7320-0785:0105	COOPER WHEELOCK
017	H	LHS	HORN/STROBE (15/30/75/110) cd	7125-0785:0169	COOPER WHEELOCK
018		LHSC	HORN/STROBE (15/30/75) cd (CEIL MNT)	7135-0785:0181	COOPER WHEELOCK
019	H	LST	STROBE (15/30/75/95/110/135/185) cd	7125-0785:0169	COOPER WHEELOCK
020		LSTC	STROBE (15/30/75/110) cd (CEIL MNT)	7125-0785:0180	COOPER WHEELOCK
021	H	LSP	SPEAKER ONLY - WALL	7125-0785:0175	COOPER WHEELOCK
022		LSPC	SPEAKER ONLY - CEILING	7125-0785:0178	COOPER WHEELOCK
023		LSPSTC	SPEAKER/STROBE - CEILING	7125-0785:0178	COOPER WHEELOCK
024	H	LSPST	SPEAKER/STROBE - WALL	7125-0785:0175	COOPER WHEELOCK
025	M		ADDRESSABLE MONITOR MODULE		
026	R		ADDRESSABLE RELAY MODULE		
027	R1	RIC-1	120 VOLT RELAY MODULE	7300-1004:0101	SAE INC
028	~	TYPE FPL	SIGNAL LINE CIRCUIT CONDUCTORS ('M')	7161-2067:0100	WEST PENN
029	~	TYPE THHN	AUDIO VISUAL AND POWER CONDUCTORS (AV,P)	N/A	SOUTHWIRE

✦ IF OTHER MANUFACTURER IS USED IT IS TO BE UL. AND CSFM LISTED.

NOTIFIER MODEL NFS 3030

	SYM	MODEL NO.	DESCRIPTION	C.S.F.M. LISTING	MFG.
001	FACP		FIRE ALARM CONTROL PANEL/VOICE EVAC		
002	FA		REMOTE POWER SUPPLY		
003	TP		TRANSPONDER PANEL		
004	SM		SYNC MODULE		
			BATTERIES		
005	ANN		REMOTE ANNUNCIATOR		
006	MF		MANUAL PULL STATION - ADDRESSABLE		
007	S		INTELLIGENT SMOKE DETECTOR		
			SENSOR BASE		
008	S		DUCT DETECTOR - ADDRESSABLE		
009	H		INTELLIGENT HEAT DETECTOR		
			SENSOR BASE		
010	HA		INTELLIGENT HEAT DETECTOR (ABOVE CEILING)		
			SENSOR BASE		
011	MBT	50RU/100RU	BEAM SMOKE DETECTOR TRANSMITTER	7260-1508:0102	FIRE FIGHTING ENT.
012	MBR	REFLECTOR		7260-1508:0102	FIRE FIGHTING ENT.
013	FS	WFDN	WATERFLOW SWITCH	7770-1653:0231	SYSTEM SENSOR
014	TS	P1BV2	TAMPER SWITCH	7770-1653:0118	SYSTEM SENSOR
015	HF	AH	EXTERIOR HORN	7125-0785:0131	COOPER WHEELOCK
			EXTERIOR FLUSH PLATE (PART OF ABOVE)		
016	HS	ET1010	EXTERIOR SPEAKER W/WBB BACKBOX	7320-0785:0105	COOPER WHEELOCK
017	H	LHS	HORN/STROBE (15/30/75/110) cd	7125-0785:0169	COOPER WHEELOCK
018		LHSC	HORN/STROBE (15/30/75) cd (CEIL MNT)	7135-0785:0181	COOPER WHEELOCK
019	H	LST	STROBE (15/30/75/95/110/135/185) cd	7125-0785:0169	COOPER WHEELOCK
020		LSTC	STROBE (15/30/75/110) cd (CEIL MNT)	7125-0785:0180	COOPER WHEELOCK
021	H	LSP	SPEAKER ONLY - WALL	7125-0785:0175	COOPER WHEELOCK
022		LSPC	SPEAKER ONLY - CEILING	7125-0785:0178	COOPER WHEELOCK
023		LSPSTC	SPEAKER/STROBE - CEILING	7125-0785:0178	COOPER WHEELOCK
024	H	LSPST	SPEAKER/STROBE - WALL	7125-0785:0175	COOPER WHEELOCK
025	M		ADDRESSABLE MONITOR MODULE		
026	R		ADDRESSABLE RELAY MODULE		
027	R1	RIC-1	120 VOLT RELAY MODULE	7300-1004:0101	SAE INC
028	~	TYPE FPL	SIGNAL LINE CIRCUIT CONDUCTORS ('M')	7161-2067:0100	WEST PENN
029	~	TYPE THHN	AUDIO VISUAL AND POWER CONDUCTORS (AV,P)	N/A	SOUTHWIRE

✦ IF OTHER MANUFACTURER IS USED IT IS TO BE UL. AND CSFM LISTED.

SIEMENS MODEL FIREFINDER XLS

	SYM	MODEL NO.	DESCRIPTION	C.S.F.M. LISTING	MFG.
001	FACP	XLSV	FIRE ALARM CONTROL PANEL/VOICE EVAC	7165-0067:0222	SIEMENS
002	FA	PAD3	REMOTE POWER SUPPLY	7315-0067:0221	SIEMENS
003	TP	XLS	TRANSPONDER PANEL	7165-0067:0222	SIEMENS
004	SM	DSM	SYNC MODULE	7300-0785:0132	WHEELOCK
			BATTERIES		
005	ANN	SSD	REMOTE ANNUNCIATOR	7165-0067:0222	SIEMENS
006	MF	HMS-D	MANUAL PULL STATION - ADDRESSABLE	7150-0067:0036	SIEMENS
007	S	HFP-11	INTELLIGENT SMOKE DETECTOR	7272-0067:0203	SIEMENS
		DB-11	SENSOR BASE	7300-0067:0134	SIEMENS
008	S		DUCT DETECTOR - ADDRESSABLE		
009	H	HFPT-11	INTELLIGENT HEAT DETECTOR	7270-0067:0224	SIEMENS
		DB-11	SENSOR BASE	7300-0067:0134	SIEMENS
010	HA		INTELLIGENT HEAT DETECTOR (ABOVE CEILING)		
			SENSOR BASE		
011	MBT	50RU/100RU	BEAM SMOKE DETECTOR TRANSMITTER	7260-1508:0102	FIRE FIGHTING ENT.
012	MBR	REFLECTOR		7260-1508:0102	FIRE FIGHTING ENT.
013	FS	WFDN	WATERFLOW SWITCH	7770-1653:0231	SYSTEM SENSOR
014	TS	P1BV2	TAMPER SWITCH	7770-1653:0118	SYSTEM SENSOR
015	HF	AH	EXTERIOR HORN	7125-0785:0131	COOPER WHEELOCK
			EXTERIOR FLUSH PLATE (PART OF ABOVE)		
016	HS	ET1010	EXTERIOR SPEAKER W/WBB BACKBOX	7320-0785:0105	COOPER WHEELOCK
017	H	LHS	HORN/STROBE (15/30/75/110) cd	7125-0785:0169	COOPER WHEELOCK
018		LHSC	HORN/STROBE (15/30/75) cd (CEIL MNT)	7135-0785:0181	COOPER WHEELOCK
019	H	LST	STROBE (15/30/75/95/110/135/185) cd	7125-0785:0169	COOPER WHEELOCK
020		LSTC	STROBE (15/30/75/110) cd (CEIL MNT)	7125-0785:0180	COOPER WHEELOCK
021	H	LSP	SPEAKER ONLY - WALL	7125-0785:0175	COOPER WHEELOCK
022		LSPC	SPEAKER ONLY - CEILING	7125-0785:0178	COOPER WHEELOCK
023		LSPSTC	SPEAKER/STROBE - CEILING	7125-0785:0178	COOPER WHEELOCK
024	H	LSPST	SPEAKER/STROBE - WALL	7125-0785:0175	COOPER WHEELOCK
025	M		ADDRESSABLE MONITOR MODULE		
026	R		ADDRESSABLE RELAY MODULE		
027	R1	RIC-1	120 VOLT RELAY MODULE	7300-1004:0101	SAE INC
028	~	TYPE FPL	SIGNAL LINE CIRCUIT CONDUCTORS ('M')	7161-2067:0100	WEST PENN
029	~	TYPE THHN	AUDIO VISUAL AND POWER CONDUCTORS (AV,P)	N/A	SOUTHWIRE

✦ IF OTHER MANUFACTURER IS USED IT IS TO BE UL. AND CSFM LISTED.

SIMPLEX MODEL 4100ES

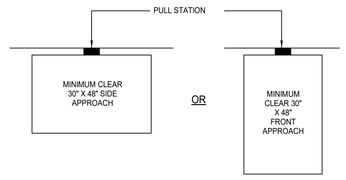
	SYM	MODEL NO.	DESCRIPTION	C.S.F.M. LISTING	MFG.
001	FACP	4100ES	FIRE ALARM CONTROL PANEL/VOICE EVAC	7165-0026:0251	SIMPLEX
002	FA	4009-9401	REMOTE POWER SUPPLY	7300-0026:0214	SIMPLEX
003	TP	4100-9600	MINIPLEX TRANSPONDER	7165-0026:0251	SIMPLEX
004	SM	DSM 12/24-R	WHEELOCK SYNC MODULE	7300-0785:0132	WHEELOCK
		VARIES	BATTERIES	N/A	SIMPLEX
005	ANN	4603-9101	LCD ANNUNCIATOR	7120-0026:0179	SIMPLEX
006	MF	4099-9001	MANUAL PULL STATION - ADDRESSABLE	7150-0026:0224	SIMPLEX
007	S	4098-9714	INTELLIGENT SMOKE DETECTOR	7272-0026:0218	SIMPLEX
		4098-9793	SENSOR BASE	7300-0026:0217	SIMPLEX
008	S	4098-9756	DUCT DETECTOR - ADDRESSABLE	3240-0026:0241	SIMPLEX
009	H	4098-9733	INTELLIGENT HEAT DETECTOR	7270-0026:0216	SIMPLEX
		4098-9793	SENSOR BASE	7300-0026:0217	SIMPLEX
010	HA	4098-9733	INTELLIGENT HEAT DETECTOR (ABOVE CEILING)	7270-0026:0216	SIMPLEX
		4098-9793	SENSOR BASE	7300-0026:0217	SIMPLEX
011	MBT	4098-9019	BEAM SMOKE DETECTOR TRANSMITTER	7260-0026:0377	SIMPLEX
012	MBR	4906-9204			
013	FS	WFD	WATERFLOW SWITCH	7770-1653:0114	SYSTEM SENSOR
014	TS	PIBV2	TAMPER SWITCH	7770-1653:0118	SYSTEM SENSOR
015	HF	AH24WP	EXTERIOR HORN	7125-0785:0131	WHEELOCK
			EXTERIOR FLUSH PLATE (PART OF ABOVE)		
016	HS	ET1010	EXTERIOR SPEAKER	7320-0785:0105	WHEELOCK
017	H	4906-9127	HORN/STROBE (15/30/75/110) cd	7125-0026:0317	SIMPLEX
018		4906-9128	HORN/STROBE (15/30/75) cd (CEIL MNT)	7125-0026:0317	SIMPLEX
019	H	49VO-WWF	STROBE (15/30/75/95/110/135/185) cd	7125-0026:0373	SIMPLEX
020		4906-9204	STROBE (15/30/75/110) cd (CEIL MNT)	7125-0026:0235	SIMPLEX
021	H	4902-9716	SPEAKER ONLY - WALL	7320-0026:0242	SIMPLEX
022		4902-9717	SPEAKER ONLY - CEILING	7320-0026:0242	SIMPLEX
023			SPEAKER/STROBE - CEILING		
024	H		SPEAKER/STROBE - WALL		
025	M	4090-9001	ADDRESSABLE MONITOR MODULE	7300-0026:0223	SIMPLEX
026	R	4090-9002	ADDRESSABLE RELAY MODULE	7300-0026:0223	SIMPLEX
027	R1	RIC-1	120 VOLT RELAY MODULE	7300-1004:0101	SAE INC
028	~	TYPE FPL	SIGNAL LINE CIRCUIT CONDUCTORS ('M')	7161-2067:0100	WEST PENN
029	~	TYPE THHN	AUDIO VISUAL AND POWER CONDUCTORS (AV,P)	N/A	SOUTHWIRE

✦ IF OTHER MANUFACTURER IS USED IT IS TO BE UL. AND CSFM LISTED.

WIRING SCHEDULE

DES	CONDUCTOR TYPE	WIRE COLOR	CIRCUIT TYPE
M	(1) 1 PR #14 TWISTED SHIELDED	RED/BLACK/SHIELD	SIGNAL LINE CIRCUIT
A	(2) #12 THHN (UON ON CALCS)	BLUE/WHITE	NOTIFICATION APP. CIRCUIT (NAC)
V	(2) #12 THHN (UON ON CALCS)	GREEN/BLUE	NOTIFICATION APP. CIRCUIT (NAC)
P	(2) #12 THHN	RED/BLACK	POWER

CLEAR SPACE REQUIREMENTS AT FIRE ALARM PULL STATIONS:



ANNUNCIATOR ZONE SCHEDULE

	ROOM SMOKE OR HEAT DETECTORS	ABOVE CEILING HEAT DETECTORS	MANUAL PULL STATIONS	DUCT DETECTORS	SPRINKLER SYSTEM	TROUBLE INDICATION
BLDG. A	YES	YES	YES	YES	N/A	YES
BLDG. B	YES	YES	YES	YES	N/A	YES
BLDG. C	YES	YES	YES	YES	N/A	YES
BLDG. D	YES	YES	YES	YES	N/A	YES
BLDG. E	YES	YES	YES	YES	N/A	YES
BLDG. F	YES	YES	YES	YES	N/A	YES
BLDG. G	YES	YES	YES	YES	N/A	YES
BLDG. H	YES	YES	YES	YES	N/A	YES

NOTES:

1. ALL SMOKE DETECTORS, HEAT DETECTORS ABOVE CEILING DETECTORS, DUCT DETECTORS MANUAL PULL STATIONS, FLOW SWITCHES, TAMPER SWITCHES SHALL BE INDIVIDUALLY ADDRESSABLE.
2. PROVIDE (1) ANNUNCIATOR WHICH WILL PROVIDE LED LIGHT INDICATORS TO IDENTIFY THE ABOVE ZONE SCHEDULE (IN ADDITION TO ANNUNCIATOR NOTED IN NOTE # 3).
3. PROVIDE (1) 32 CHARACTER BACK-LIGHTED ALPHA-NUMERIC DISPLAY ANNUNCIATOR WITH KEYPAD FOR OPERATOR CONTROL, PROGRAMMING AND TESTING.

FIRE ALARM MONITORING NOTE:

1. AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY CFC SECTION 907. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

FIRE ALARM GENERAL REQUIREMENTS:

1. THE COMPLETE INSTALLATION SHALL BE REVIEWED AND APPROVED BY THE ABOVE LOCAL MANUFACTURERS REPRESENTATIVE. SEE SPECIFICATIONS (28 30 00), FOR ADDITIONAL CONTRACTOR QUALIFICATIONS AND REQUIREMENTS.
2. UNLESS OTHERWISE NOTED SOLID LINES BETWEEN DEVICES SHALL BE 3/4" E.M.T. ROUTED CONCEALED ABOVE CEILINGS OR IN WALLS. DASHED LINES INDICATE 3/4" P.V.C. UNDERGROUND CONDUIT. ALL WIRING TYPES AND QUANTITIES SHOWN ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL PROVIDE ALL WIRING AS REQUIRED TO MAKE A FULLY OPERATIONAL SYSTEM. SHOP DRAWINGS AND OR AS-BUILT DOCUMENTS SHALL INDICATE ALL WIRING PROVIDED.
3. THE AUDIBILITY OF FIRE ALARM WARNING DEVICES SHALL BE AUDIBLE THROUGH THE OCCUPANCY WITH A MINIMAL SOUND LEVEL 15 db's OVER THE AMBIENT NOISE LEVEL. ADD ADDITIONAL DEVICES AS REQUIRED.
4. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A REACCEPTANCE TEST OF THE ENTIRE SYSTEM SHALL BE PERFORMED IN THE PRESENCE OF THE ENFORCING AGENCY AND IN ACCORDANCE WITH SPECIFICATIONS (28 30 00). THE CONTRACTOR SHALL FURNISH db METERS AND ALL OTHER EQUIPMENT TO PERFORM THESE TESTS.
5. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL PREVENT THE PASSAGE OF HEAT, SMOKE AND FIRE GASES. ALL PENETRATIONS SHALL COMPLY WITH U.L. ASSEMBLY XL-1001. REFER TO THROUGH-PENETRATION FIRESTOP DETAIL ON THE DETAIL SHEET.
6. ALL OPERATING HARDWARE AT INITIATING DEVICES SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST, AND THE FORCE REQUIRED TO OPERATE SHALL BE LESS THAN 5 POUNDS.

APPLICABLE CODES

2016 BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24 C.C.R).

2016 CALIFORNIA BUILDING CODE (PART 2, TITLE 24 C.C.R).
(2012 INTERNATIONAL BUILDING CODE WITH 2013 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24 CCR)
(2011 NATIONAL ELECTRICAL CODE AND 2013 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR)
(2012 UNIFORM MECHANICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR)
(2012 UNIFORM PLUMBING CODE AND 2013 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)

2016 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
(2015 INTERNATIONAL FIRE CODE AND 2015 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN),
PART 11, TITLE 24 C.C.R.

2016 CALIFORNIA REFERENCED STANDARDS (PART 12, TITLE 24, CCR)

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS	2013 EDITION
NFPA 14	STANDPIPE SYSTEMS (CA AMENDED)	2013 EDITION
NFPA 17A	WEST CHEMICAL SYSTEMS	2013 EDITION
NFPA 20	STATIONARY PUMPS	2013 EDITION
NFPA 24	PRIVATE FIRE MAINS (CA AMENDED)	2013 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CA AMENDED)	2013 EDITION
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES	2013 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2013 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS - 2013 CBC (SFM) CHAPTER 35.
SEE CHAPTER FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

MAXIMUM NUMBER OF CONDUCTORS IN TRADE SIZES OF CONDUIT OR TUBING MINIMUM CONDUIT SIZE FOR THIS PROJECT IS 3/4"

CONDUIT TRADE SIZE (INCHES)		1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5
TYPE LETTERS	CONDUCTOR SIZE AWG, kcmil											
THWN	14 12	13 10	24 18	39 29	69 51	94 70	154 114	164				
THHN	10 8	6 3	11 5	18 9	32 16	44 22	73 36	104 51	160 79	106	136	

TRADE SIZE	INTERNAL DIAMETER INCHES	AREA—SQUARE INCHES								
		100% INCHES	PERCENT REDUCTION PER NUMBER OF 18AWG TWISTED SHIELD PAIRS							
			OVER 2 COND. 40%	1	2	3	4	5	6	7	8
1/2	.622	.30	.12	38%	66%	99%	X	X	X	X	X
3/4	.824	.53	.21	19%	38%	57%	76%	95%	X	X	X
1	1.049	.86	.34	12%	24%	36%	48%	60%	72%	84%	96%
1 1/4	1.380	1.50	.60	7%	14%	21%	28%	35%	42%	49%	56%
1 1/2	1.610	2.04	.82	5%	10%	15%	20%	25%	30%	35%	40%
2	2.067	3.36	1.34	3%	6%	9%	12%	15%	18%	21%	24%

FIRE ALARM SEQUENCE OF OPERATION

ACTION \ DEVICE	MANUAL PULL STATION	AREA/DUCT SMOKE/HEAT DETECTOR	AC POWER FAILURE	SPRINKLER ACTIVATION TAMPER SW.	SPRINKLER ACTIVATION FLOW SW.
SOUND ALARM TROUGHOUT BLDG.	YES	YES	NO	N/A	YES
ACTIVATE RELAY FOR MONITORING	YES	YES	YES	N/A	YES
ANNUNCIATE AT PANEL AND ANNUNCIATOR	YES	YES	YES	N/A	YES
SOUND TROUBLE BUZZER	ON WIRING FAULT	ON WIRING FAULT	YES	N/A	ON WIRING FAULT
SOUND SPRINKLER BELL	NO	NO	NO	N/A	YES
REPORT TO MONITORING STATION	YES	YES	YES	YES	YES
INITIATE SHUTDOWN OF HVAC UNITS	YES	YES	NO	N/A	YES

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

REGISTERED PROFESSIONAL ENGINEER — MICHAEL GREGG HANSEN — NO.E 14781 — Exp. 6-30-2021 — ELECTRICAL — STATE OF CALIFORNIA

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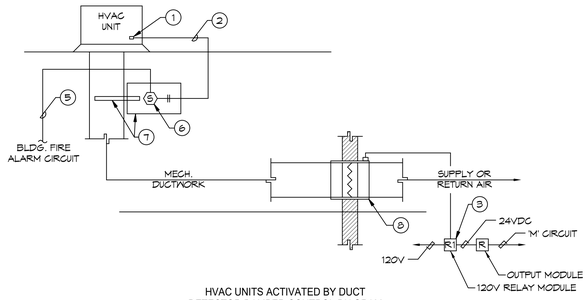
FIRE ALARM SCHEDULE

NO. DATE ISSUE

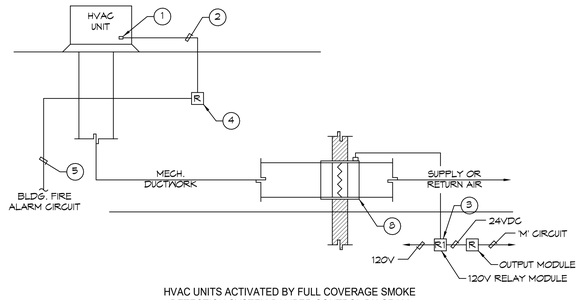
PROJECT NO: 19009
DATE: 08/31/2019

DRAWING
E5.6

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HVAC UNITS ACTIVATED BY DUCT DETECTOR DAMPER CONTROL DIAGRAM



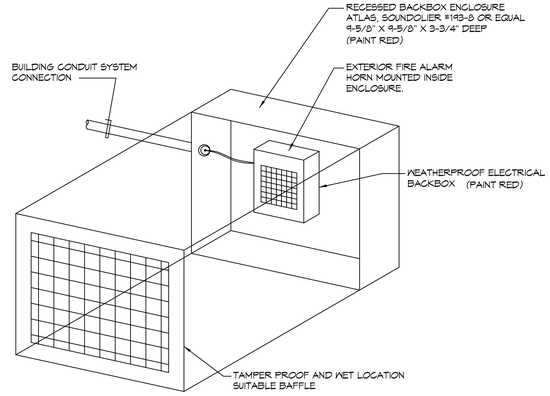
HVAC UNITS ACTIVATED BY FULL COVERAGE SMOKE DETECTION SYSTEM DAMPER CONTROL DIAGRAM

KEY NOTES:

1. ALL A/C UNITS SHALL SHUT DOWN, WHETHER IN HEATING OR COOLING MODE, UPON ACTIVATION OF ANY FIRE ALARM DEVICE IN THE BUILDING INCLUDING SMOKE/HEAT DETECTORS, MANUAL STATIONS, DUCT DETECTORS, AREA DETECTORS, CONTROLLING SMOKE DAMPERS, SPRINKLER ACTIVATION. 45 SECONDS AFTER THE A/C UNITS HAVE BEEN SHUT DOWN, ALL SMOKE DAMPERS SHALL CLOSE.
2. 1/2" CONDUIT PROVIDED BY (ELECTRICAL) WITH CONTROL WIRING PROVIDED BY (FIRE ALARM). FINAL CONNECTIONS TO A/C UNIT BY (MECHANICAL) AND ALL CONNECTIONS AT FIRE ALARM DEVICES BY (FIRE ALARM) CONTRACTOR.
3. FIRE ALARM CONTROL MODULE MOUNTED AT FACP OR FA PANELS, BOXES AND INTERCONNECTING CONDUITS BY (ELECTRICAL) CONTRACTOR. WIRING BY (FIRE ALARM) CONTRACTOR.
4. FIRE ALARM CONTROL MODULE MOUNTED TO J-BOX ADJACENT TO A/C UNIT, BOXES AND INTERCONNECTING CONDUITS BY (ELECTRICAL) CONTRACTOR. WIRING BY (FIRE ALARM) CONTRACTOR.
5. 1/2" CONDUIT PROVIDED BY (ELECTRICAL) WITH CONTROL WIRING PROVIDED BY (FIRE ALARM) CONTRACTOR.
6. SMOKE DETECTOR WITH 24V AUXILIARY CONTROL CONTACT INSTALL IN DUCT DETECTOR HOUSING BY (FIRE ALARM) CONTRACTOR.
7. DUCT DETECTOR HOUSING AND SAMPLING TUBES FURNISHED BY (FIRE ALARM) CONTRACTOR AND INSTALLED BY (MECHANICAL) CONTRACTOR SAMPLING TUBES SHALL BE SIZED TO MATCH THE DUCT SIZE AND CFM RATING.
8. SMOKE/FIRE DAMPER BY (MECHANICAL).

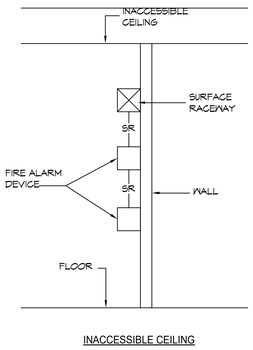
DAMPER/HVAC UNIT FIRE ALARM CONTROL DIAGRAM

NO SCALE — 1 / E5.7

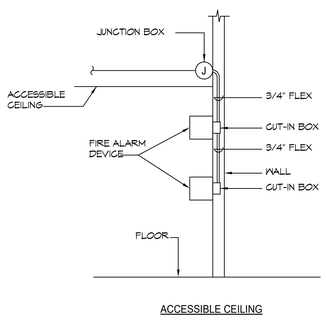


EXTERIOR FIRE ALARM SPEAKER ASSEMBLY

NO SCALE — 2 / E5.7



INACCESSIBLE CEILING



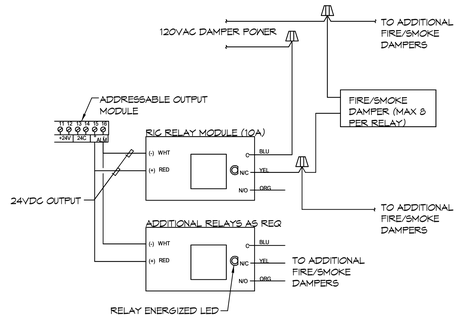
ACCESSIBLE CEILING

TYPICAL SURFACE RACEWAY DETAIL - INACCESSIBLE CEILING

NO SCALE — 3 / E5.7

TYPICAL CUT-IN BOX DETAIL - ACCESSIBLE CEILING

NO SCALE — 4 / E5.7



ADDRESSABLE ISOLATION RELAY DAMPER INTERFACE

NO SCALE — 5 / E5.7

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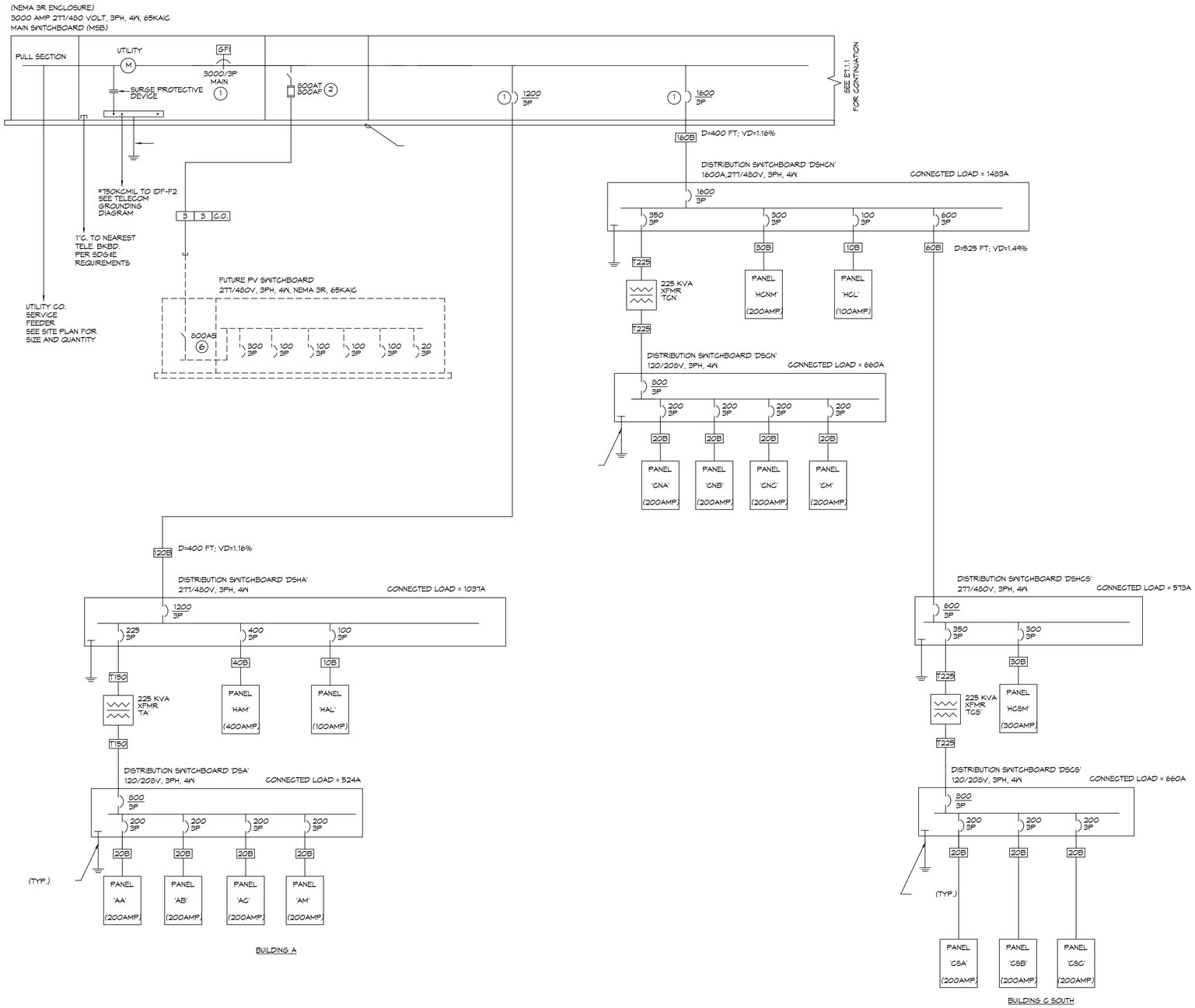
FIRE ALARM DETAILS

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DATE: 08/31/2019

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E5.7

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ELECTRICAL LOAD SUMMARY

	CONNECTED LOAD		DEMAND LOAD	
BUILDING 'A' (19,157 SQ. FT.)	= 434	AMPS	= 338.1	AMPS
BUILDING 'B' (27,054 SQ. FT.)	= 531	AMPS	= 502.4	AMPS
BUILDING 'C' (28,269 SQ. FT.)	= 542	AMPS	= 528.1	AMPS
BUILDING 'D' (13,497 SQ. FT.)	= 464	AMPS	= 450.8	AMPS
BUILDING 'E' (33,561 SQ. FT.)	= 801	AMPS	= 702.0	AMPS
BUILDING 'F' (14,360 SQ. FT.)	= 376	AMPS	= 312.7	AMPS
TOTAL LOAD	= 3153	AMPS	= 2833	AMPS

ELECTRICAL ONE-LINE DIAGRAM
NO SCALE

1
E7.1

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REGISTERED PROFESSIONAL ENGINEER — MARGUERITE GOESE-HANSEN — NO. E 14781 Exp. 6-30-2021 — ELECTRICAL — STATE OF CALIFORNIA

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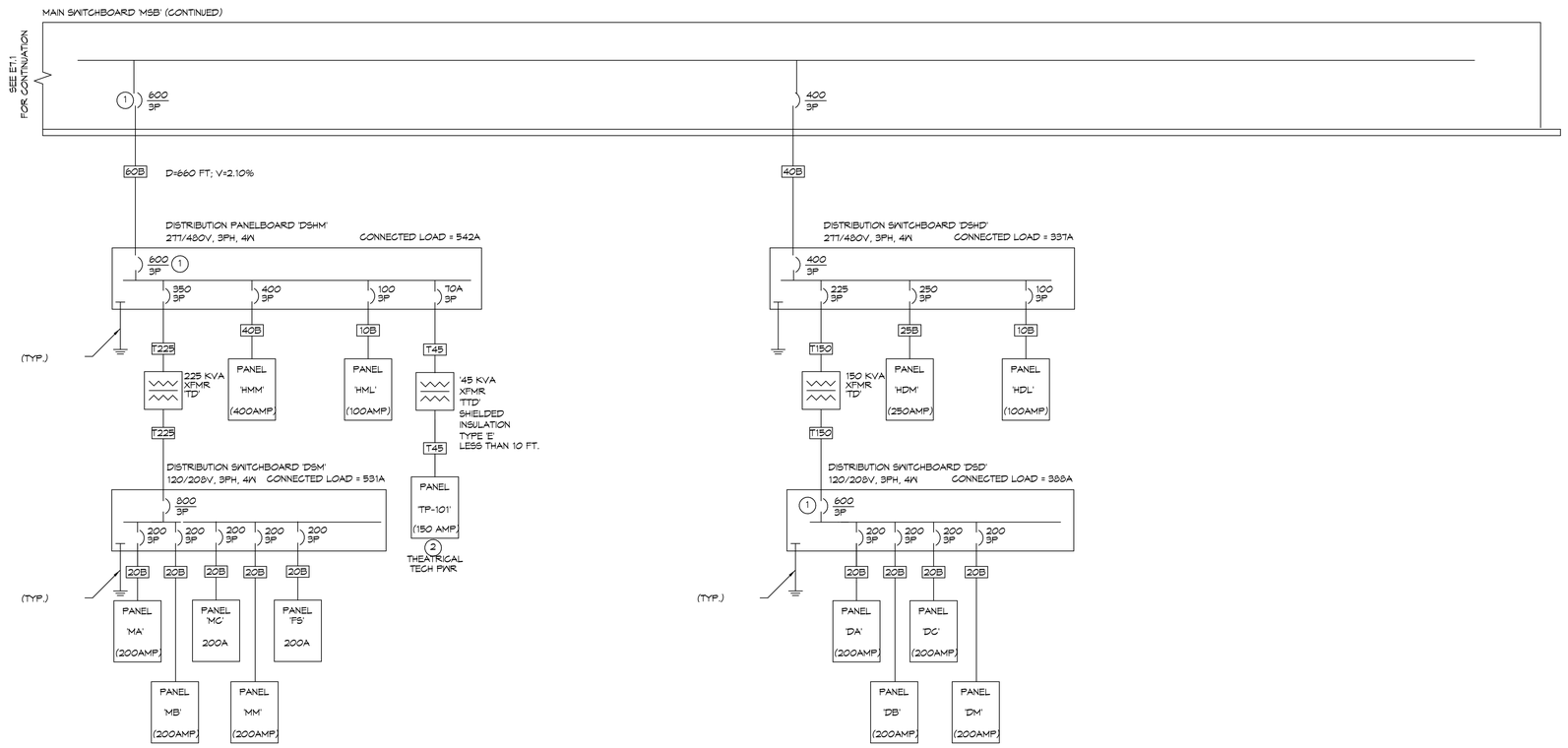
ONE-LINE DIAGRAM

NO. DATE ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

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600Volt Feeder Schedule

I.D.	Type	Ampacity	Copper Conduit	Copper Conductors	Aluminum Conduit	Aluminum Conductors
2A		20	(1) 3/4"	3 # 12, 1# 12 Gnd	NA	NA
2B		20	(1) 3/4"	4 # 12, 1# 12 Gnd	NA	NA
3A		30	(1) 3/4"	3 # 10, 1# 10 Gnd	NA	NA
3B		30	(1) 3/4"	4 # 10, 1# 10 Gnd	NA	NA
4A		40	(1) 1"	3 # 8, 1# 10 Gnd	NA	NA
4B		40	(1) 1"	4 # 8, 1# 10 Gnd	NA	NA
5A		50	(1) 1"	3 # 6, 1# 10 Gnd	NA	NA
5B		50	(1) 1"	4 # 6, 1# 10 Gnd	NA	NA
6A		60	(1) 1 1/4"	3 # 4, 1# 8 Gnd	NA	NA
6B		60	(1) 1 1/4"	4 # 4, 1# 8 Gnd	NA	NA
7A		70	(1) 1 1/4"	3 # 4, 1# 8 Gnd	NA	NA
7B		70	(1) 1 1/4"	4 # 4, 1# 8 Gnd	NA	NA
8A		80	(1) 1 1/4"	3 # 3, 1# 8 Gnd	NA	NA
8B		80	(1) 1 1/4"	4 # 3, 1# 8 Gnd	NA	NA
9A		90	(1) 1 1/2"	3 # 2, 1# 8 Gnd	NA	NA
9B		90	(1) 1 1/2"	4 # 2, 1# 8 Gnd	NA	NA
10A		100	(1) 1 1/2"	3 # 1, 1# 6 Gnd	NA	NA
10B		100	(1) 1 1/2"	4 # 1, 1# 6 Gnd	NA	NA
12A		125	(1) 2"	3 # 1, 1# 6 Gnd	(1) 2"	3 # 1, 1# 3 Gnd
12B		125	(1) 2"	4 # 1, 1# 6 Gnd	(1) 2"	4 # 1, 1# 3 Gnd
15A		150	(1) 2"	3 # 1/0, 1# 6 Gnd	(1) 2"	3 # 1/0, 1# 3 Gnd
15B		150	(1) 2"	4 # 1/0, 1# 6 Gnd	(1) 2"	4 # 1/0, 1# 3 Gnd
17A		175	(1) 2"	3 # 2/0, 1# 6 Gnd	(1) 2"	3 # 2/0, 1# 3 Gnd
17B		175	(1) 2"	4 # 2/0, 1# 6 Gnd	(1) 2"	4 # 2/0, 1# 3 Gnd
20A		200	(1) 3"	3 # 3/0, 1# 4 Gnd	(1) 3"	3 # 3/0, 1# 2 Gnd
20B		200	(1) 3"	4 # 3/0, 1# 4 Gnd	(1) 3"	4 # 3/0, 1# 2 Gnd
22A		225	(1) 3"	3 # 4/0, 1# 4 Gnd	(1) 3"	3 # 300, 1# 2 Gnd
22B		225	(1) 3"	4 # 4/0, 1# 4 Gnd	(1) 3"	4 # 4/0, 1# 2 Gnd
25A		250	(1) 3"	3 # 250, 1# 4 Gnd	(1) 3"	3 # 350, 1# 2 Gnd
25B		250	(1) 3"	4 # 250, 1# 4 Gnd	(1) 3"	4 # 350, 1# 2 Gnd
30A		300	(1) 3"	3 # 350, 1# 4 Gnd	(1) 3"	3 # 500, 1# 2 Gnd
30B		300	(1) 3"	4 # 350, 1# 4 Gnd	(1) 3"	4 # 500, 1# 2 Gnd
35A		350	(2) 2"	3 # 2/0, 1# 2 Gnd	(2) 2"	3 # 4/0, 1# 1 Gnd
35B		350	(2) 2"	4 # 2/0, 1# 2 Gnd	(2) 2"	4 # 4/0, 1# 1 Gnd
40A		400	(2) 2"	3 # 3/0, 1# 2 Gnd	(2) 2"	3 # 500, 1# 1/0 Gnd
40B		400	(2) 2"	4 # 3/0, 1# 2 Gnd	(2) 2"	4 # 500, 1# 1/0 Gnd
45A		450	(2) 3"	3 # 4/0, 1# 2 Gnd	(2) 3"	3 # 500, 1# 1/0 Gnd
45B		450	(2) 3"	4 # 4/0, 1# 2 Gnd	(2) 3"	4 # 500, 1# 1/0 Gnd
50A		500	(2) 3"	3 # 250, 1# 2 Gnd	(2) 3"	3 # 350, 1# 1/0 Gnd
50B		500	(2) 3"	4 # 250, 1# 2 Gnd	(2) 3"	4 # 350, 1# 1/0 Gnd
60A		600	(2) 3"	3 # 350, 1# 1 Gnd	(2) 3"	3 # 500, 1# 2/0 Gnd
60B		600	(2) 3"	4 # 350, 1# 1 Gnd	(2) 3"	4 # 500, 1# 2/0 Gnd
70A		700	(3) 3"	3 # 4/0, 1# 1/0 Gnd	(3) 3"	3 # 300, 1# 3/0 Gnd
70B		700	(3) 3"	4 # 4/0, 1# 1/0 Gnd	(3) 3"	4 # 300, 1# 3/0 Gnd
80A		800	(3) 3"	3 # 300, 1# 1/0 Gnd	(3) 3"	3 # 500, 1# 3/0 Gnd
80B		800	(3) 3"	4 # 300, 1# 1/0 Gnd	(3) 3"	4 # 500, 1# 3/0 Gnd
100B		1000	(4) 4"	4 # 250, 1# 2/0 Gnd	(4) 4"	4 # 400, 1# 4/0 Gnd
120B		1200	(4) 3"	4 # 350, 1# 3/0 Gnd	(4) 3"	4 # 500, 1# 250 Gnd
160B		1600	(5) 4"	4 # 400, 1# 4/0 Gnd	(5) 4"	4 # 600, 1# 350 Gnd
200B		2000	(6) 3"	4 # 250, 1# 250 Gnd	(6) 3"	4 # 400, 1# 400 Gnd
250B		2500	(7) 4"	4 # 500, 1# 350 Gnd	(7) 4"	4 # 750, 1# 600 Gnd
300B		3000	(8) 4"	4 # 500, 1# 350 Gnd	(8) 4"	4 # 750, 1# 600 Gnd
350B		3500	(12) 4"	4 # 350, 1# 400 Gnd	(12) 4"	4 # 500, 1# 600 Gnd
400B		4000	(12) 4"	4 # 400, 1# 400 Gnd	(12) 4"	4 # 600, 1# 750 Gnd

600V FEEDER SCHEDULE LEGEND

- MS — REFERENCE MECHANICAL EQUIPMENT SCHEDULE FOR SIZE — 1 / E6.6
- T1B — "T" INDICATES TYPICAL TRANSFORMER FEEDER REFERENCE. THE NUMBER INDICATES TRANSFORMER TYPE. REFER TO SCHEDULE ON SHEET ____ FOR SIZE REQUIRED.
- 2 | 2 | 2 — INDICATES QUANTITY OF CONDUITS REQUIRED = (2)
- 4 — INDICATES SIZE OF CONDUITS REQUIRED = 4"
- 2G — INDICATES "CONDUIT ONLY"

600V FEEDER SCHEDULE GENERAL NOTES:

1. ALL CONDUCTOR SHALL BE PROVIDED WITH TYPE THWN-2 INSULATION. REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE 60 DEGREE COPPER/ALUMINUM RATED TERMINATION FOR ALL FEEDERS SIZED WITH #2 OF SMALLER CONDUCTORS. PROVIDE 75 DEGREE COPPER/ALUMINUM RATED TERMINATIONS FOR ALL FEEDERS SIZED WITH #1 OR LARGER CONDUCTORS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING LUG CONFIGURATION AN ALL EQUIPMENT, BREAKER OF DISCONNECTS TO MATCH FEEDER CONFIGURATIONS INDICATED.
4. WHERE MULTIPLE CONDUIT QUANTITIES ARE INDICATED, CONDUCTOR QUANTITIES AND SIZES SHOWN IN SCHEDULE SHALL BE PROVIDED IN EACH CONDUIT.

GENERAL NOTES:

1. A FAULT CURRENT AND TIME CURRENT STUDY MUST BE PROVIDED AS DESCRIBED IN THE SPECIFICATIONS PRIOR TO FINAL APPROVAL OF THE POWER EQUIPMENT.
2. REFERENCE DETAIL ____ FOR ALL EQUIPMENT FAULT CURRENT RATINGS.
3. UNLESS WHERE OTHERWISE NOTED, ALL WORK INDICATED ON THESE DRAWINGS SHALL BE CONSIDERED NEW WORK.
4. ALL ELECTRICAL GEAR AND EQUIPMENT SHOWN ON ONE-LINE DIAGRAM SHALL BE NEMA (TYPE 1) UNLESS OTHERWISE NOTED.

KEY NOTES:

1. 100% RATED ELECTRONIC TRIP MAIN.
2. REFER TO THEATER DRAWINGS FOR COMPLETE SPECIFICATIONS. SUPPLIED BY DIV. 26, SPECIFIED BY THEATER CONSULTANT.
3. CUSTOMER PV METER.
4. CUSTOMER FACILITY CONSUMPTION METER.
5. PROVIDE SHUNT TRIP BREAKERS FOR ELEVATOR. PROVIDE CONNECTION TO FIRE ALARM SYSTEM.
6. VISIBLE BLADE DISCONNECT (FUTURE)
7. LIGHTING RELAY PANELS BY OTHERS. REFER TO THEATER DRAWINGS FOR FURTHER INFO.

NOT APPLICABLE

ELECTRICAL ONE-LINE DIAGRAM
NO SCALE

1 / E7.1.1

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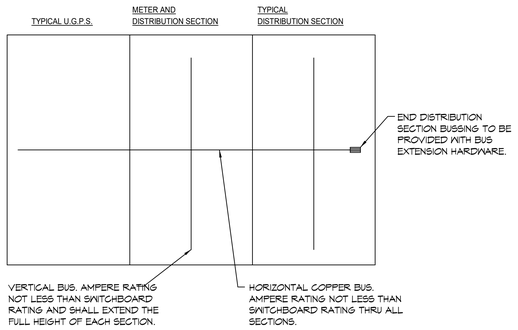
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ONE-LINE DIAGRAM

NO. DATE ISSUE

PROJECT NO: 19009
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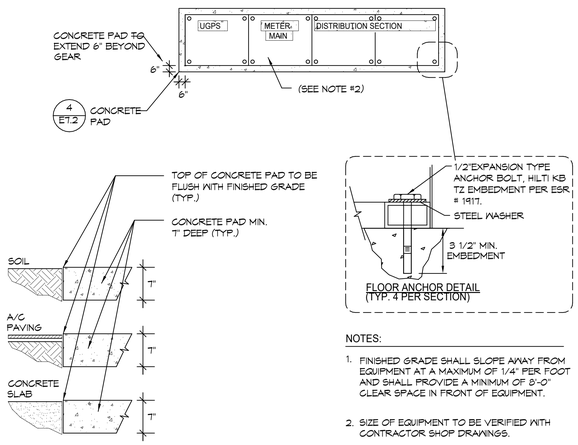
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SWITCHBOARD BUS CONFIGURATION DETAIL

NO SCALE

1 / E7.2



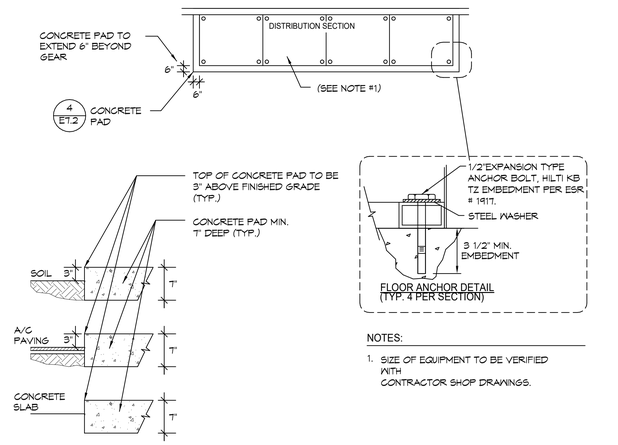
NOTES:

1. FINISHED GRADE SHALL SLOPE AWAY FROM EQUIPMENT AT A MAXIMUM OF 1/4" PER FOOT AND SHALL PROVIDE A MINIMUM OF 8'-0" CLEAR SPACE IN FRONT OF EQUIPMENT.
2. SIZE OF EQUIPMENT TO BE VERIFIED WITH CONTRACTOR SHOP DRAWINGS.

TYPICAL ELECTRICAL (SERVICE) EQUIPMENT PAD DETAIL

NO SCALE

2 / E7.2



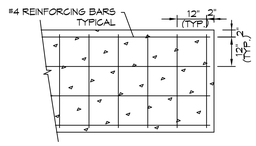
NOTES:

1. SIZE OF EQUIPMENT TO BE VERIFIED WITH CONTRACTOR SHOP DRAWINGS.

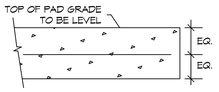
TYPICAL ELECTRICAL EQUIPMENT PAD DETAIL

NO SCALE

3 / E7.2



TYPICAL SECTION ELEVATION



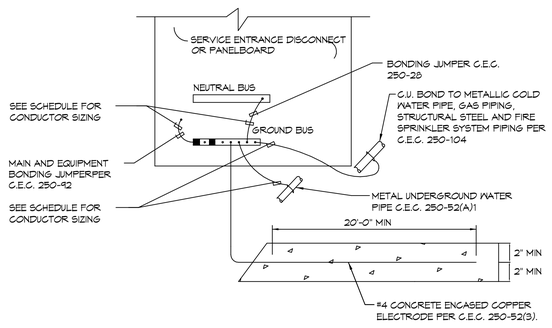
GENERAL NOTES

1. ALL CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. AS PER 1905A METHOD 'A' AND TABLE 19A-A-B. BATCH PLANT INSPECTIONS AND TESTS OF CEMENT AND REINFORCING BARS MAY BE WAIVED PER TITLE 24 SECTION 1704A.4.3 & 1704A.4.4.
2. CONCRETE MIX DESIGNS SHALL COMPLY WITH TITLE 24 SECTION 1905A.2.
3. PORTLAND CEMENT SHALL CONFORM TO (ASTM C-150) TYPE I OR II
4. CONCRETE AGGREGATES SHALL CONFORM TO ASTM C-33
5. CONCRETE PLACEMENT SHALL CONFORM TO TITLE 24 SECTION 1905A.7.
6. ALL REINFORCING BARS SHALL CONFORM TO TITLE 24 SECTION 1903A AND ASTM A-615 GRADE 60.

TYPICAL HOUSEKEEPING PAD DETAIL

NO SCALE

4 / E7.2

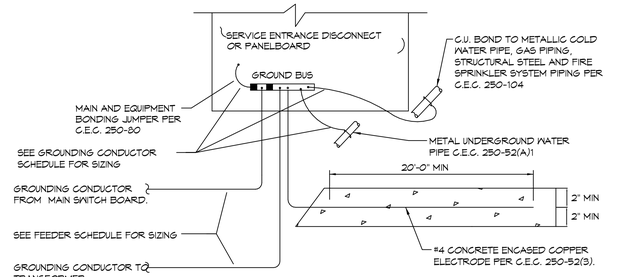


GROUND SIZING SCHEDULE	
EQUIPMENT AMPACITY	GROUNDING CONDUCTOR SIZE
0 - 200 AMPS	#4 CU.
201 - 400 AMPS	#1/0 CU.
401 - 800 AMPS	#2/0 CU.
801 - 1200 AMPS	#3/0 CU.
1201 - 2000 AMPS	#250 CU.
2001 - 4000 AMPS	#350 CU.

MAIN SERVICE ENTRANCE GROUNDING AND BONDING DETAIL

NO SCALE

5 / E7.2

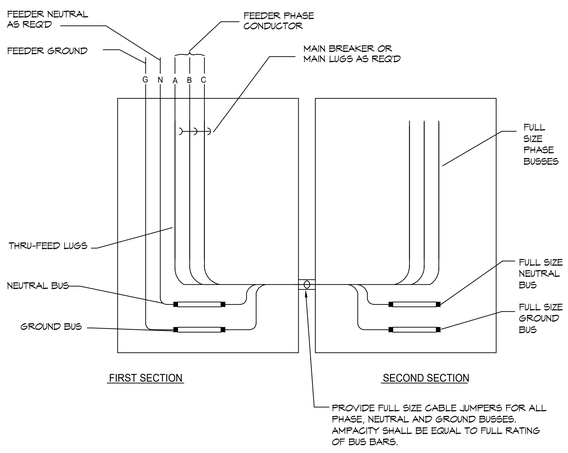


GROUND SIZING SCHEDULE	
EQUIPMENT AMPACITY	GROUNDING CONDUCTOR SIZE
0 - 200 AMPS	#4 CU.
201 - 400 AMPS	#1/0 CU.
401 - 800 AMPS	#2/0 CU.
801 - 1200 AMPS	#3/0 CU.
1201 - 2000 AMPS	#250 CU.
2001 - 4000 AMPS	#350 CU.

SERVICE ENTRANCE GROUNDING AND BONDING DETAIL

NO SCALE

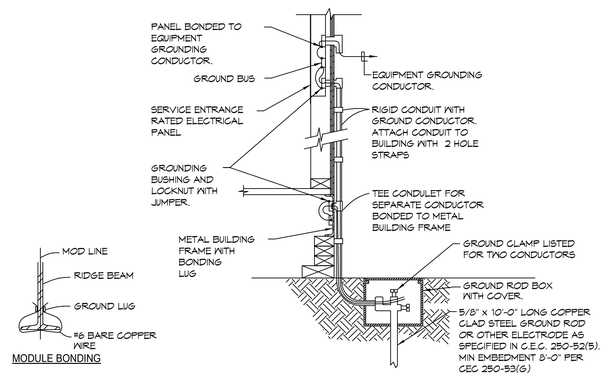
6 / E7.2



TYPICAL BUS DETAIL FOR TWO SECTION PANELBOARDS

NO SCALE

7 / E7.2



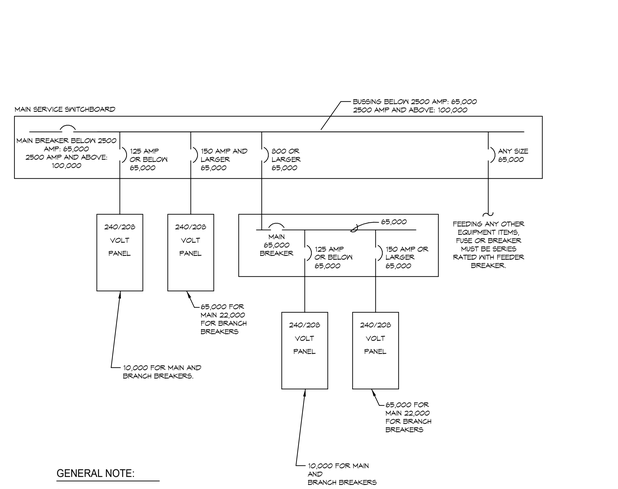
GENERAL NOTE:

1. SIZE OF CONDUCTOR SHALL COMPLY WITH C.E.C. TABLE 250-66.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL (250-52(5)) AND TO METAL BUILDING FRAME (C.E.C. 250-104(C)). IN ADDITION TO THE DETAIL ABOVE BOND THE ELECTRICAL GROUND TO METAL WATER PIPE IF AVAILABLE. (C.E.C. 250-104(A)).
3. ALL MODULES OF METAL FRAME BUILDINGS AND RAMP SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING).
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, EXTEND CONDUCTORS, AS REQUIRED TO ADDITIONAL GROUND RODS AS NEEDED, SEPARATED BY AT LEAST 6'-0" UNTIL RESISTANCE IS 25 OHM OR LESS (CEC 250.56).

RELOCATABLE CLASSROOM GROUNDING DETAIL

NO SCALE

8 / E7.2



GENERAL NOTE:

1. ALL RATINGS SHOWN ARE FOR A UL LISTED SERIES COMBINATION OF THE BREAKERS INDICATED.

TYPICAL 208/240 VOLT SERVICE AIC EQUIPMENT RATING

NO SCALE

9 / E7.2

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

REGISTERED PROFESSIONAL ENGINEER
MICHAEL GREGG JOHNSON
NO.E 14781
Exp. 6-30-2021
ELECTRICAL
STATE OF CALIFORNIA
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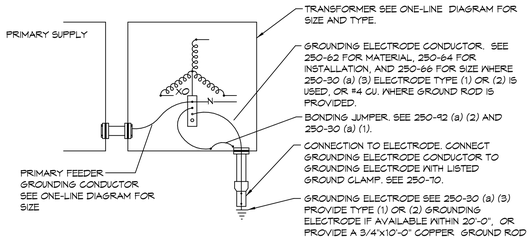
ONE-LINE DETAILS

NO.	DATE	ISSUE

PROJECT NO: 19009
DATE: 08/31/2019

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E7.2

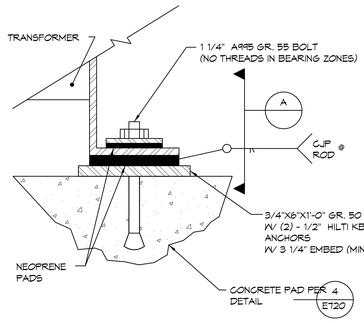
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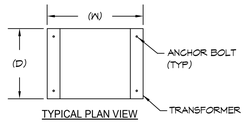


THREE PHASE TRANSFORMER GROUNDING

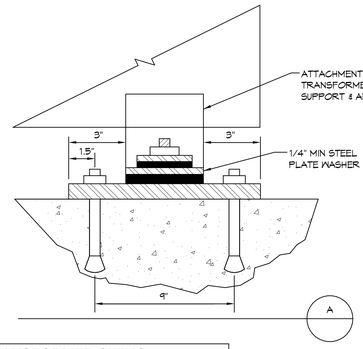
NO SCALE

1 / E7.3





TYPICAL PLAN VIEW



TRANSFORMER SIZING				
	WIDTH (W)	DEPTH (D)	HEIGHT	WEIGTH
15 KVA	24"	17"	27"	300 LBS.
30 KVA	24"	20"	33"	352 LBS.
45 KVA	32"	23"	35"	523 LBS.
75 KVA	32"	25"	33"	630 LBS.
112.5 KVA	35"	30"	46"	805 LBS.
150 KVA	38"	30"	56"	1045 LBS.
225 KVA	48"	34"	56"	1365 LBS.
300 KVA	48"	34"	63"	1575 LBS.
500 KVA	60"	50"	76"	4070 LBS.
1000 KVA	89"	72"	72"	13,800 LBS.
2500 KVA	98"	101"	72"	16,000 LBS.

TRANSFORMER ANCHORAGE DETAIL

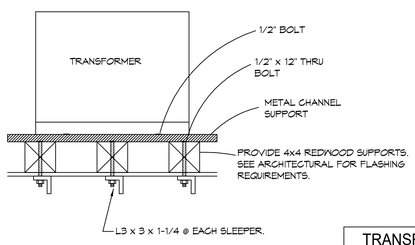
NO SCALE

2 / E7.3

SINGLE PHASE TRANSFORMER FEEDER SCHEDULE						
ID	RATING	CONDUCTOR	PRIMARY		SECONDARY	
T10	10KVA	COPPER	(1)	3/4"C. 2 #10, 1 #12 GND	(1)	1 1/4"C. 3 #4, 1 #10 GND
		ALUMINUM		NA		NA
T15	15KVA		(1)	3/4"C. 2 #8, 1#10 GND	(1)	1 1/2"C. 3 #3, 1 #6 GND
				NA		NA
T25	25KVA		(1)	1 1/4"C. 2 #4, 1 #6 GND	(1)	2"C. 3 #1, 1 #6 GND
				NA		NA

THREE PHASE TRANSFORMER FEEDER SCHEDULE						
ID	RATING	CONDUCTOR	PRIMARY		SECONDARY	
T30	30 KVA	COPPER	(1)	1"C. 3 #6, 1 #8 GND	(1)	1 1/2"C. 4 #1, 1 #6 GND
		ALUMINUM		NA		NA
T45	45 KVA	COPPER	(1)	1 1/4"C. 3 #4, 1 #6 GND	(1)	2"C. 4 #2/0, 1 #6 GND
		ALUMINUM		NA		NA
T75	75 KVA	COPPER	(1)	2"C. 3 #1, 1 #6 GND	(1)	3"C. 4 #250, 1 #4 GND
		ALUMINUM	(1)	2"C. 3 #2/0, 1 #3 GND		3"C. 4 #350, 1 #2 GND
T112	112 1/2 KVA	COPPER	(1)	2"C. 3 #2/0, 1 #4 GND	(2)	3"C. 4 #3/0, 1 #2 GND
		ALUMINUM	(1)	2"C. 3 #4/0, 1 #2 GND	(2)	3"C. 4 #250, 1 #1/0 GND
T150	150 KVA	COPPER	(1)	3"C. 3 #4/0, 1 #4 GND	(2)	3"C. 4 #350, 1 #1 GND
		ALUMINUM	(1)	3"C. 3 #300, 1 #2 GND	(2)	3"C. 4 #500, 1 #2/0 GND
T225	225 KVA	COPPER	(2)	2"C. 3 #2/0, 1 #2 GND	(3)	3"C. 4 #300, 1 #1/0 GND
		ALUMINUM	(2)	2"C. 3 #4/0, 1 #1/0 GND	(3)	3"C. 4 #500, 1 #3/0 GND
T300	300 KVA	COPPER	(2)	3"C. 3 #4/0, 1 #2 GND	(4)	3"C. 4 #350, 1 #3/0 GND
		ALUMINUM	(2)	3"C. 3 #300, 1 #1/0 GND	(4)	3"C. 4 #500, 1 #250 GND
T500	500 KVA	COPPER	(3)	4"C. 3 #300, 1 #1/0 GND	(8)	3"C. 4 #250, 1 #250 GND
		ALUMINUM	(3)	4"C. 3 #400, 1 #3/0 GND	(8)	3"C. 4 #400, 1 #400 GND

TYPICAL WOOD ROOF CONSTRUCTION
(SEE ARCHITECTURAL/STRUCTURAL WHERE APPLICABLE)



TYPICAL METAL ROOF CONSTRUCTION
(SEE ARCHITECTURAL/STRUCTURAL WHERE APPLICABLE)

TRANSFORMER SIZING				
SIZE	WIDTH	DEPTH	HEIGHT	WEIGHT
75 KVA	32"	25"	33"	630 LBS.
112.5 KVA	35"	30"	46"	805 LBS.
150 KVA	38"	30"	56"	1045 LBS.
225 KVA	48"	34"	56"	1365 LBS.
300 KVA	48"	34"	63"	1575 LBS.

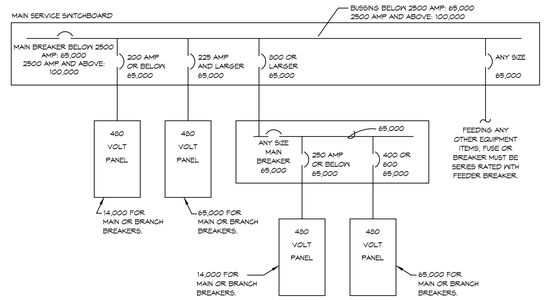
TRANSFORMER ANCHORAGE

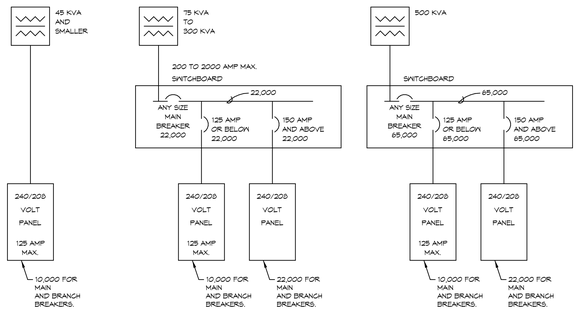
NO SCALE

3 / E7.3

GENERAL NOTE:

1. ALL RATINGS SHOWN ARE FOR A UL LISTED SERIES COMBINATION OF THE BREAKERS INDICATED.





TYPICAL 480 VOLT SERVICE AIC EQUIPMENT RATINGS

NO SCALE

4 / E7.3

DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

REGISTERED PROFESSIONAL ENGINEER — MARK DIESSE-HARRIS — NO.E 14781 — Exp. 6-30-2021 — ELECTRICAL — STATE OF CALIFORNIA

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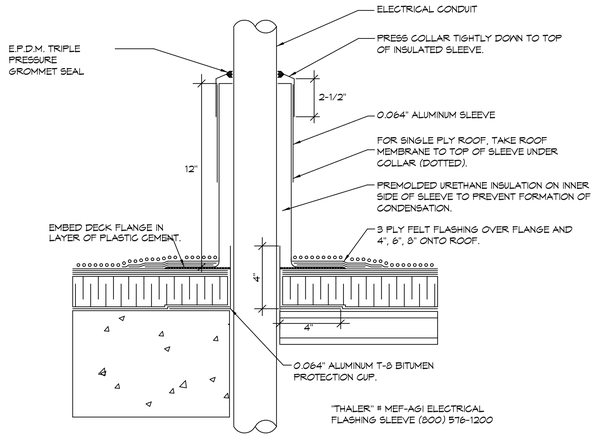
ONE-LINE DETAILS

NO. DATE ISSUE

PROJECT NO: 19009
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E7.3

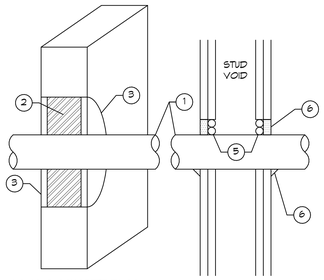
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CONDUIT ROOF PENETRATION DETAIL

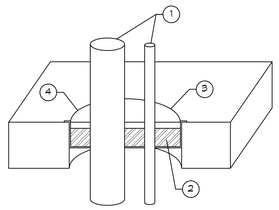
NO SCALE

1 E8.1



1-2 HOUR CONCRETE/BLOCK U.L. SYSTEM #C-AJ-1088

1-2 HOUR STUD WALL U.L. SYSTEM #W-L-1169



1-2 HOUR CONCRETE FLOOR U.L. SYSTEM #C-AJ-1088

KEY NOTES:

1. MAXIMUM 4" EMT CONDUIT.
2. COMPRESSED MINERAL WOOL MIN. 2" THICK (RECESSED TO ALLOW FOR SEALANT).
3. APPLY #FS900 MIN. 1" DEEP AND FLUSH WITH FINISHED SURFACE.
4. 'U' SHAPED STEEL WIRE FOR SUPPORT.
5. BACKER ROD COMPRESSED INTO ANNULUS (LEAVE ROOM FOR SEALANT)
6. APPLY #FS1900 INTO ANNULAR SPACE MIN. 5/8" DEEP. ADD 3/8" BEAD AT POINT OF CONTACT.

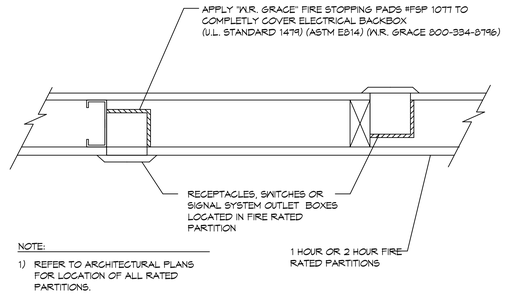
GENERAL NOTES:

1. ALL CONDUIT PENETRATION THRU FIRE RATED PARTITIONS SHALL COMPLY WITH THESE DETAILS. SEE ARCHITECTURAL PLANS FOR LOCATION OF ALL RATED PARTITIONS.
2. FOR FIRE STOPPING MATERIALS CONTACT W.R. GRACE (800) 334-8796.

CONDUIT PENETRATION THRU FIRE RATED PARTITIONS

NO SCALE

2 E8.1



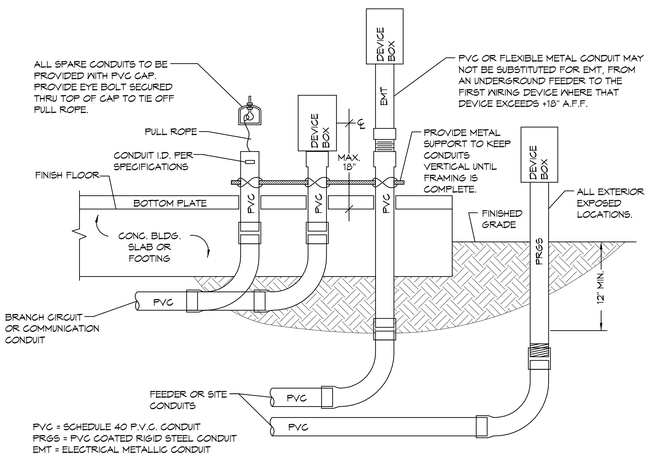
NOTE:

1) REFER TO ARCHITECTURAL PLANS FOR LOCATION OF ALL RATED PARTITIONS.

OUTLET BOX IN FIRE RATED PARTITION

NO SCALE

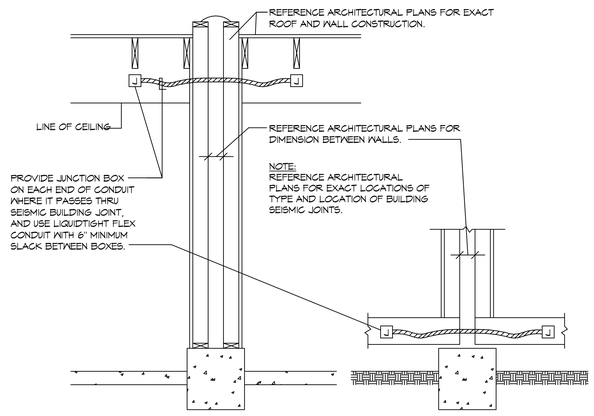
3 E8.1



TYPICAL CONDUIT DETAIL

NO SCALE

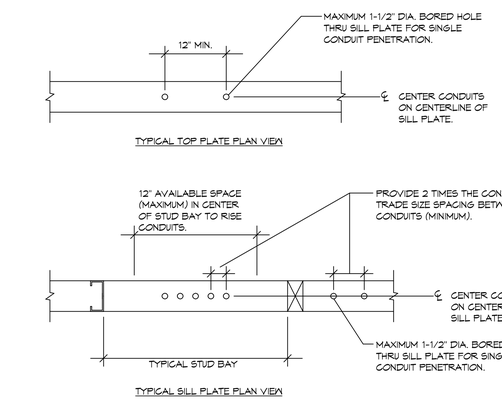
4 E8.1



SEISMIC JOINT CONDUIT INSTALLATION DETAIL

NO SCALE

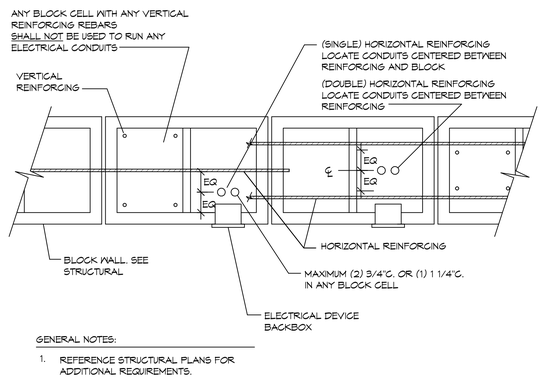
5 E8.1



CONDUIT PENETRATIONS THRU PLATE DETAIL

NO SCALE

6 E8.1



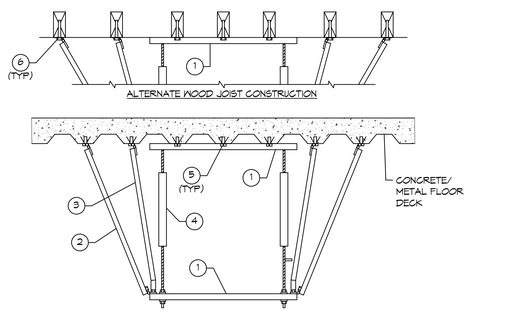
GENERAL NOTES:

1. REFERENCE STRUCTURAL PLANS FOR ADDITIONAL REQUIREMENTS.

CONDUITS IN BLOCK WALL DETAIL (PLAN VIEW)

NO SCALE

7 E8.1



KEY NOTES:

1. 1 5/8" SQ. 12 GA. STEEL CHANNEL ON 8'-0" CENTERS.
2. 1 5/8" SQ. 12 GA. STEEL CHANNEL TRAVERSE BRACE ON 16'-0" CENTERS. (EACH SIDE)
3. 1 5/8" SQ. 12 GA. STEEL CHANNEL LONGITUDINAL BRACE ON 16'-0" CENTERS. (EACH SIDE)
4. 3/8" THREADER ROD WITH ROD STIFFENER ON 8'-0" CENTERS.
5. 3/8" EXPANSION ANCHOR WITH MINIMUM OF 2 1/2" EMBEDMENT.
6. 1/4" x 3" WOOD SCREWS.

GENERAL NOTES:

1. REFERENCE ARCHITECTURAL AND STRUCTURAL PLANS FOR APPLICABLE TYPE OF ROOF OR FLOOR CONSTRUCTION.

CONDUIT TRAPEZE SUPPORT

NO SCALE

8 E8.1

DEL MAR UNION SCHOOL DISTRICT
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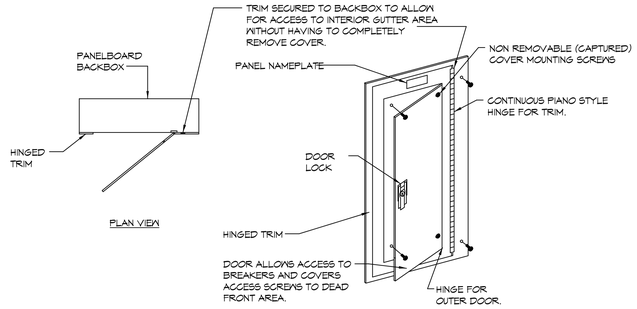
ELECTRICAL DETAILS

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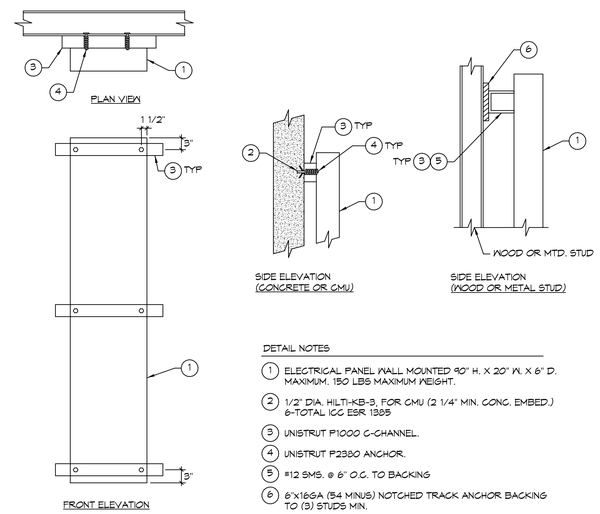
DETAIL GENERAL NOTES

1. PROVIDE FOR ALL PANELBOARDS FOR THIS PROJECT - SURFACE, RECESSED NEMA 1, OR NEMA 3R CONFIGURATION.
2. SEE REFERENCE ONE LINE DIAGRAM FOR ALL PANELBOARD AIC RATINGS.

TYPICAL PANELBOARD DOOR/TRIM DETAIL

NO SCALE

1
E9.1



DETAIL NOTES

1. ELECTRICAL PANEL WALL MOUNTED 90" H. X 20" W. X 6" D. MAXIMUM. 150 LBS MAXIMUM WEIGHT.
2. 1/2" DIA. HILTI-KB-3, FOR CMU (2 1/4" MIN. CONC. EMBED.) 6-TOTAL ICC ESR 1385
3. UNISTRUT P1000 C-CHANNEL.
4. UNISTRUT P2380 ANCHOR.
5. #12 SMS. @ 6" O.C. TO BACKING
6. 6"X16GA (54 MINUS) NOTCHED TRACK ANCHOR BACKING TO (3) STUDS MIN.

SURFACE WALL MOUNTED ELECTRICAL PANEL DETAIL

NO SCALE

2
E9.1

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DEL MAR UNION SCHOOL DISTRICT
DEL MAR HEIGHTS SCHOOL

REGISTERED PROFESSIONAL ENGINEER
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NO. E 14781
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PANEL SCHEDULES

NO.	DATE	ISSUE

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DRAWING
E9.1