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ABBREVIATIONS

ABR.	DESCRIPTION	ABR.	DESCRIPTION	ABR.	DESCRIPTION
AB	ANCHOR BOLT	EXIST	EXISTING	PART BD	PARTICLE BOARD
ABS	ACRYLONITRILE-BUTADIENE-STYRENE	EXP	EXPANSION	PARTN	PARTITION
AC	ACOUSTIC, ACOUSTICAL	EXT	EXTERIOR	P-LAM	PLASTIC LAMINATE PLATE
ACC STA	ACCESSIBLE STATION	FD	FLOOR DRAIN	PLYWD	PLYWOOD
AD	ADDENDUM	FDN	FOUNDATION	PREFAB	PREFABRICATED
ADJ	ADJUSTABLE	FEC	FIRE EXTINGUISHER CABINET	PROJ	PROJECTION
AFF	ABOVE FINISH FLOOR	FIN	FINISH	PT	PRESERVATIVE TREATED
ALT	ALTERNATE	FLR	FLOOR	PVC	POLYVINYL CHLORIDE
ALUM	ALUMINUM	FTG	FOOTING	QT	QUARRY TILE
ASI	ARCHITECT SUPPLEMENTAL INSTRUCTION	GA	GAUGE	R/	ROUND
ASPH	ASPHALT	GALV	GALVANIZED	RAD	RADIUS
		GI	GALVANIZED IRON	RD	ROOF DRAIN
		GYP BD	GYP SUM BOARD	REF	REFRIGERATOR
		HDWD	HARDWOOD	REINF	REINFORCE
BB	BASKETBALL BOARD	HM	HOLLOW METAL	REV	REVISION
BD	BOARD	HORIZ	HORIZONTAL	RFI	REQUEST FOR INFORMATION
BLDG	BUILDING	HT	HEIGHT	RO	ROUGH OPENING
BLKG	BLOCKING	ID	INSIDE DIAMETER	SCHED	SCHEDULE
BM	BENCH MARK	INSUL	INSULATION	SHT	SHEET
B.O.	BOTTOM OF	INT	INTERIOR	SIM	SIMILAR
BRG	BEARING	JT	JOINT	SPEC	SPECIFICATION
BSMT	BASEMENT	KD	KNOCK DOWN	SQ	SQUARE
B.U.R.	BUILT UP ROOF	KO	KNOCK OUT	SS	STAINLESS STEEL
C	CHANNEL	L	ANGLE	STD	STANDARD
CB	CHALKBOARD	LLV	LONG LEG VERTICAL	STL	STEEL
C	CENTER LINE	MAX	MAXIMUM	STOR	STORAGE
CLG	CEILING	MB	MARKER BOARD	STRUCT	STRUCTURAL
CMU	CONCRETE MASONRY UNIT	MECH	MECHANICAL	SUSP	SUSPENDED, SUSPENSION
CO	CLEAN OUT	MFR	MANUFACTURER	SYS	SYSTEM
COL	COLUMN	MH	MANHOLE	T & B	TOP AND BOTTOM
CONC	CONCRETE	MIN	MINIMUM	TB	TACKBOARD
CONN	CONNECTION	MISC	MISCELLANEOUS	TEMP	TEMPORARY
CONT	CONTINUOUS	MO	MASONRY OPENING	TEL	TELEPHONE
CONTR	CONTRACTOR	MT	MOUNT	THRES	THRESHOLD
CT	CERAMIC TILE	MTL	METAL	TS	TUBE STEEL
d	PENNY	(N)	NEW	T.O.	TOP OF
DIM	DIMENSION	NIC	NOT IN CONTRACT	TOIL	TOILET
DS	DOWNSPOUT	NTS	NOT TO SCALE	TV	TELEVISION
DWG	DRAWING	O.C.	ON CENTER	TYP	TYPICAL
(E)	EXISTING	OD	OUTSIDE DIAMETER	VERT	VERTICAL
EA	EACH	OH	OVERHEAD	U.N.O.	UNLESS NOTED OTHERWISE
EIFS	EXTERIOR INSULATION FINISH SYSTEM	OF/CI	OWNER FURNISHED / CONTRACTOR INSTALLED	W	WIDE FLANGE
ELECT	ELECTRICAL	OF/OI	OWNER FURNISHED / OWNER INSTALLED	W/	WITH
ELEV	ELEVATION	OPNG	OPENING	WC	WATER CLOSET
EQ	EQUAL	OPP	OPPOSITE	WD	WOOD
EQUIP	EQUIPMENT	O.T.S.	OPEN TO STRUCTURE	WM	WATER METER
EWC	ELECTRIC WATER COOLER			W/O	WITHOUT
				WWF	WELDED WIRE FABRIC

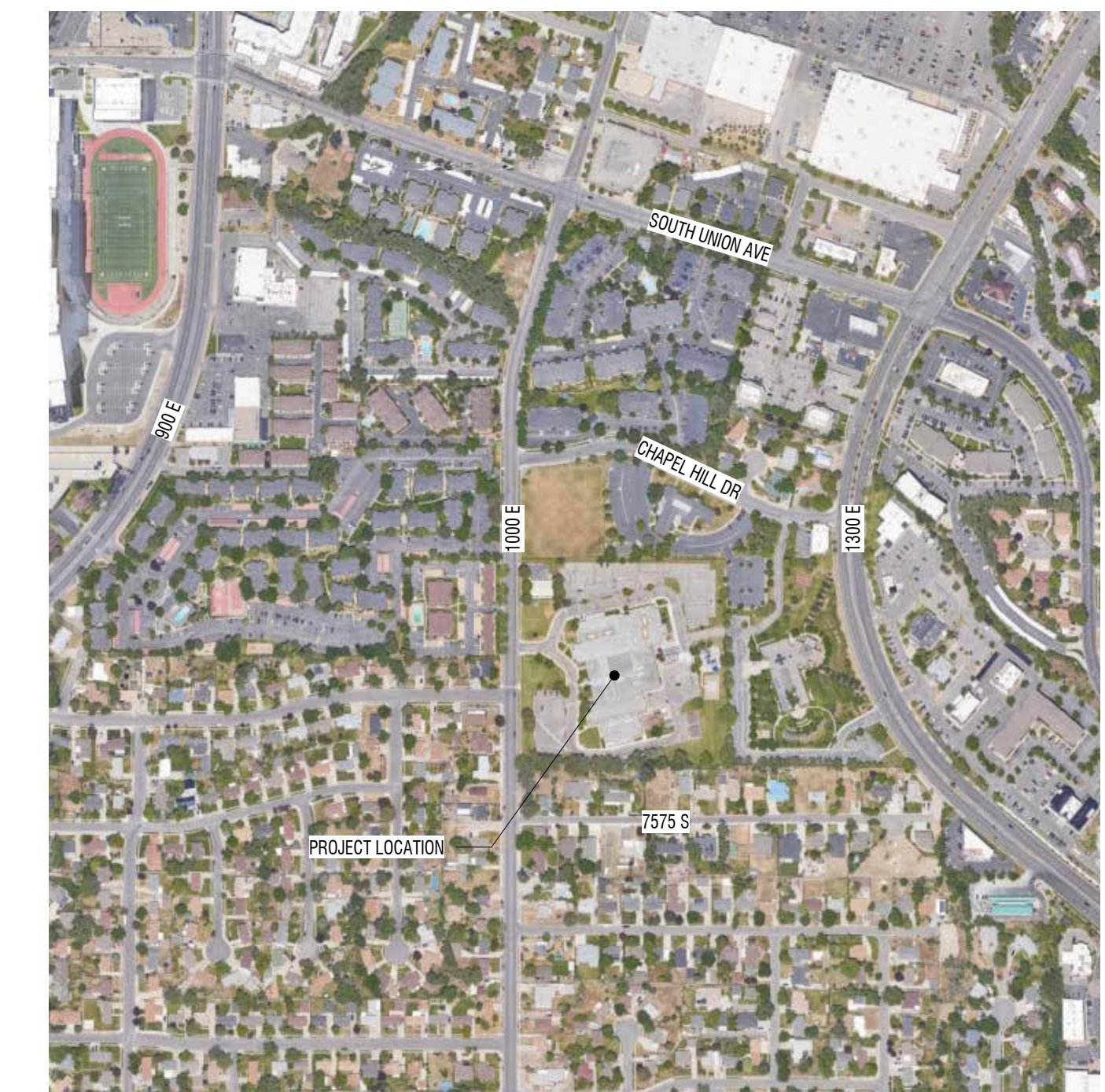
SYMBOLS LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
BUILDING SECTION		DRAWING TAG	
WALL SECTION		WINDOW TYPES	
DETAIL		WALL TYPES	
SECTION DETAIL ENLARGED PLAN		DOOR TAG	
ELEVATION LEVEL		KEYNOTES	
ELEVATIONS		REVISIONS	
ROOM TAG		GRID BUBBLE	
ROOM FINISH TAG		EQUIPMENT TAG	
		FINISH TAG	
		NORTH ARROW	

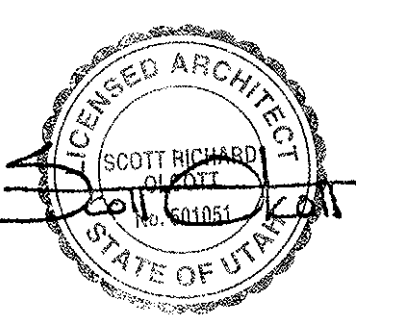
MATERIALS LEGEND

MATERIAL	SYMBOL
EARTH	
ASPHALT PAVING	
COMPACTED GRANULAR FILL	
CONCRETE	
CONCRETE MASONRY UNITS	
BRICK	
STEEL	
CONTINUOUS WOOD	
WOOD BLOCKING	
PLYWOOD / OSB	
PARTICLE BOARD	
INSULATION	
RIGID INSULATION	
GYP SUM BOARD	
GLU-LAMINATE BEAM	
GLASS	
FINISH WOOD	
ALUMINUM	
WOOD STUD WALL	

VICINITY MAP



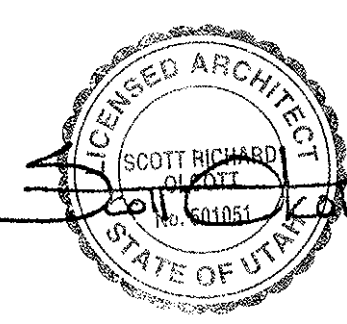
MARK	DATE	DESCRIPTION



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MARK	DATE	DESCRIPTION



FLOOR PLAN &
 REFLECTED CEILING
 PLAN

A-101

BID SET

GENERAL FLOOR PLAN NOTES

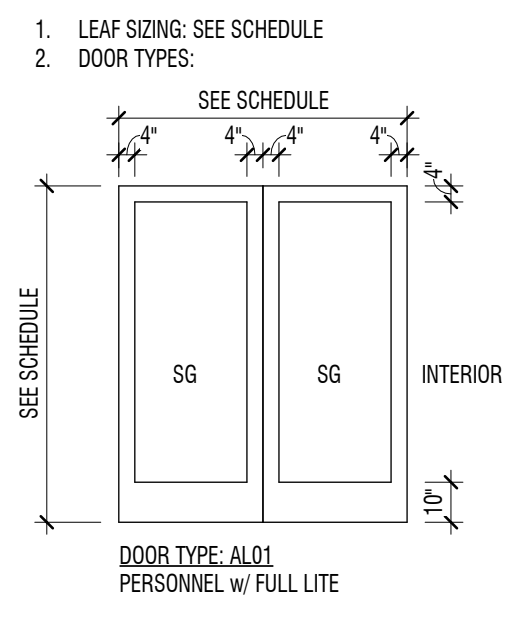
- KEYNOTES (#) - THE FIRST TWO NUMBERS REPRESENT THE RELATED CSI MASTER FORMAT DIVISION. THE SECOND SET OF NUMBERS REPRESENTS AN IDENTIFYING MARK VALUE. NOT ALL VALUES MAY BE USED OR OCCUR IN THE DOCUMENT SET.
- ADDITIONALLY, KEYNOTES RETAIN THEIR ASSIGNED VALUE UNIVERSALLY THROUGHOUT THE SET. THE KEYNOTES LISTED BELOW, REPRESENT THE KEYNOTES FOUND AND UTILIZED ON THIS SHEET AND EACH LIST WILL DIFFER RESPECTIVE TO ITS SHEET. THEREFORE, BASED ON ACTUAL KEYNOTES UTILIZED ON A GIVEN SHEET OF DRAWINGS, GAPS IN THE SEQUENCING WILL OCCUR.
- CONTRACTOR SHALL BE FAMILIARIZED WITH THE LAY-OUT OF STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. ANY QUESTIONS SHALL BE SUBMITTED VIA REQUEST FOR INFORMATION (RFI).
- MIN CLEARANCE REQUIRED ON LATCH SIDE OF DOORS SHALL CONFORM TO ADA REQUIREMENTS
 12" MIN PUSH SIDE
 18" MIN FULL SIDE
- HINGE SIDE OF DOORS AT PERPENDICULAR WALLS TO HAVE 3" STUD SECTION U.N.O.
- DOOR OPENINGS ARE INDICATED WITH ANNOTATION SYMBOLS AND ARE FURTHER IDENTIFIED ON DOOR SCHEDULES.

GENERAL DOOR NOTES

- PROVIDE SEALANT AT JOINTS AT DISSIMILAR MATERIAL CONNECTIONS. ISOLATE DISSIMILAR METALS.
- ALL DIMENSIONS FOR DOOR AND WINDOW OPENINGS TO BE FIELD VERIFIED PRIOR TO MANUFACTURING AND INSTALLATION.
- UNLESS NOTED OTHERWISE, WHERE OCCURS ALL WINDOWS AND TRANSOMS THAT OCCUR IN RATED CORRIDOR WALL TO BE RATED 45 MIN.
- PRE-PAINT ALL FRAMES PRIOR TO INSTALLATION.
- BRAILLE SIGNAGE REQUIRED ON STRIKE SIDE OF FRAME.

DOOR SCHEDULE NOTES

- IF SCHEDULE FIELD SHOWS A HYPHEN (-) OR IS BLANK, THERE ARE NO ITEMS APPLICABLE OR IS DETERMINED BY MANUFACTURER.
- SWING LINES SHOWN BELOW ARE REPRESENTATIONAL AND DO NOT INDICATE ACTUAL SWING. SEE PLANS FOR INDIVIDUAL SWINGS.



- LEAF SIZING: SEE SCHEDULE
 - DOOR TYPES:
- SEE SCHEDULE
-
- DOOR TYPE: AL01
 PERSONNEL w/ FULL LITE
- GLAZING: (DOOR AND WINDOW)
 SG SAFETY GLASS (TEMPERED OR LAMINATED)
 CG CLEAR FLOAT GLASS
 - FRAME TYPE: (NUMBER(S) INDICATE(S) FRAME TYPE(S) SHOWN)
 - HARDWARE: (GROUP #, SEE SPECIFICATIONS FOR HARDWARE GROUPS)

WINDOW GENERAL NOTES

- PROVIDE SEALANT AT JOINTS AT DISSIMILAR MATERIAL CONNECTIONS. ISOLATE DISSIMILAR METALS.
- ALL DIMENSIONS FOR WINDOW OPENINGS TO BE FIELD VERIFIED PRIOR TO MANUFACTURING AND INSTALLATION.
- ALL WINDOWS AND TRANSOMS THAT OCCUR IN RATED CORRIDOR WALL TO BE RATED 45 MIN.
- PRE-PAINT ALL FRAMES PRIOR TO INSTALLATION.
- BRAILLE SIGNAGE REQUIRED ON STRIKE SIDE OF FRAME.
- SEE DOOR SCHEDULE NOTES FOR GLAZING TYPES.

LEGEND

- MATERIALS
- 2'-0" x 4'-0" EXISTING SUSPENDED ACOUSTICAL LAY-IN CEILING SYSTEM TO REMAIN, PATCH & REPAIR AS REQUIRED.
 - EXISTING PAINTED GYPSUM BOARD CEILINGS TO REMAIN
- SYMBOLS
- LIGHTING FIXTURES:
 2x4' EXISTING TROFFERS
 - SENSORS/SIGNS/ELEC./DATA:
 EXT SIGN - SEE ELECTRICAL DRAWINGS
 EXISTING/RELOCATED FIRE SPRINKLER HEAD, V.I.F.
 FIRE SPRINKLER HEAD, V.I.F.
 SMOKE DETECTOR - SEE ELECTRICAL DRAWINGS
 HORN STROBE - SEE ELECTRICAL DRAWINGS
 INDICATES FINISH IS APPLIED TO AREA BETWEEN ARROWS

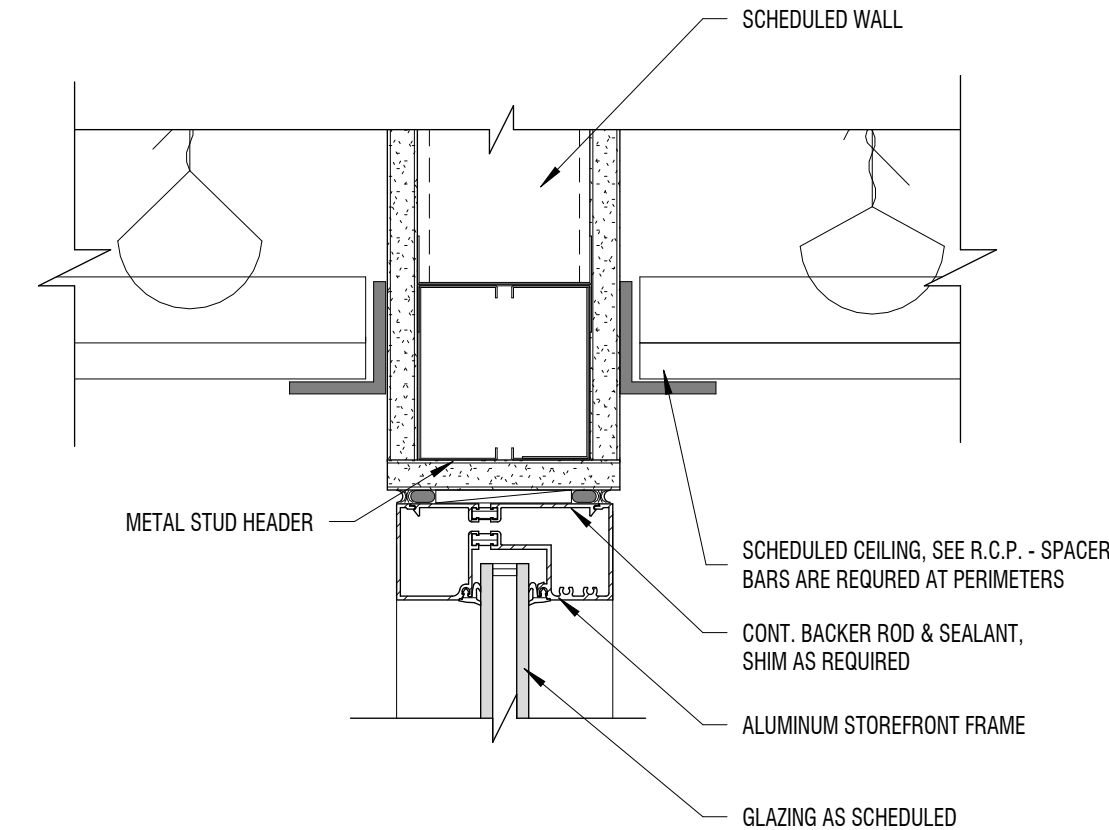
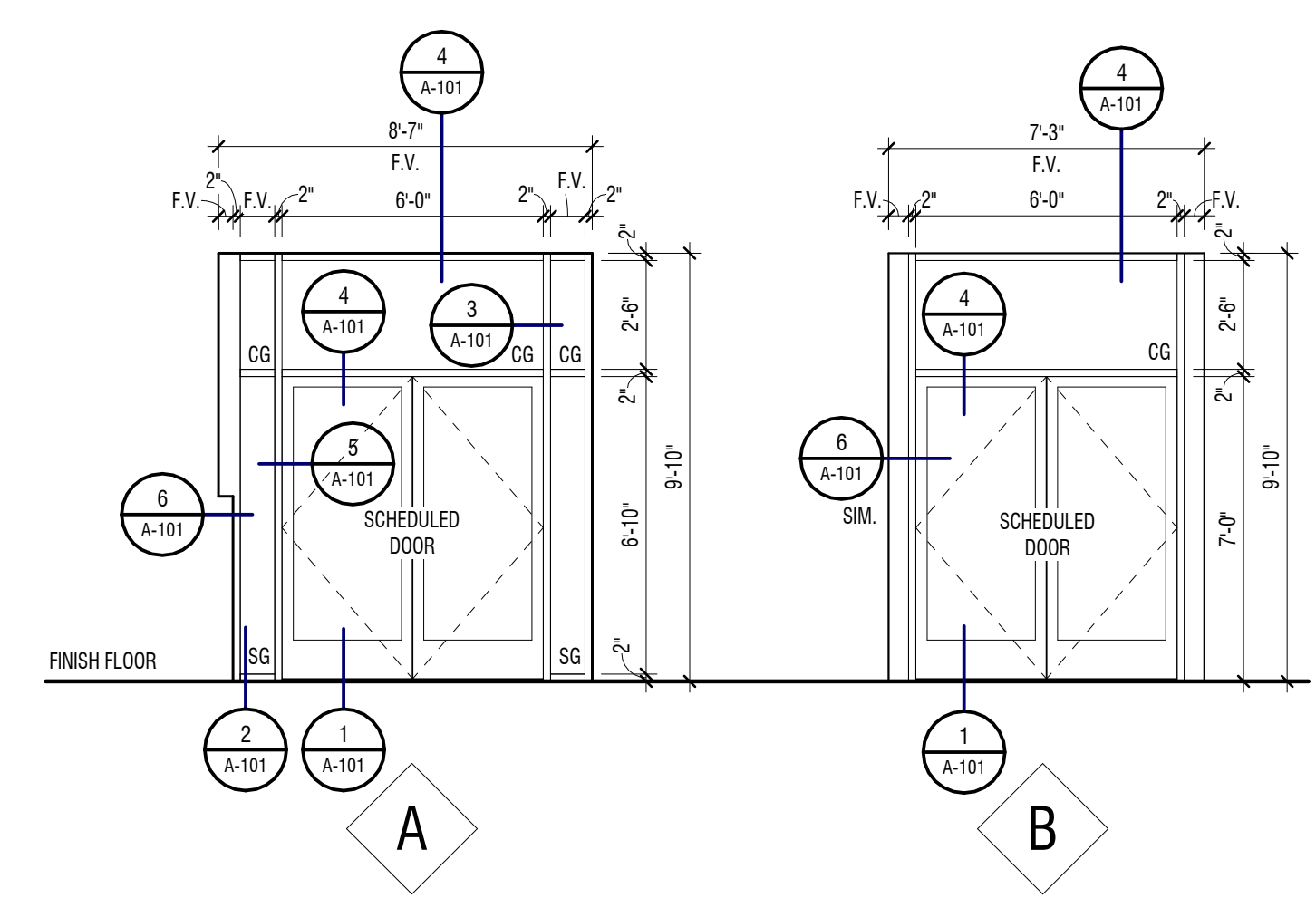
DOOR SCHEDULE

MARK	LEAF SIZING (1)			DOOR TYPE (2)	FRAME TYPE (5)	HARDWARE (7)
	W	H	D			
101	6'-0"	7'-0"	1 3/4"	AL01	AL	AL
102	6'-0"	7'-0"	1 3/4"	AL01	AL	AL

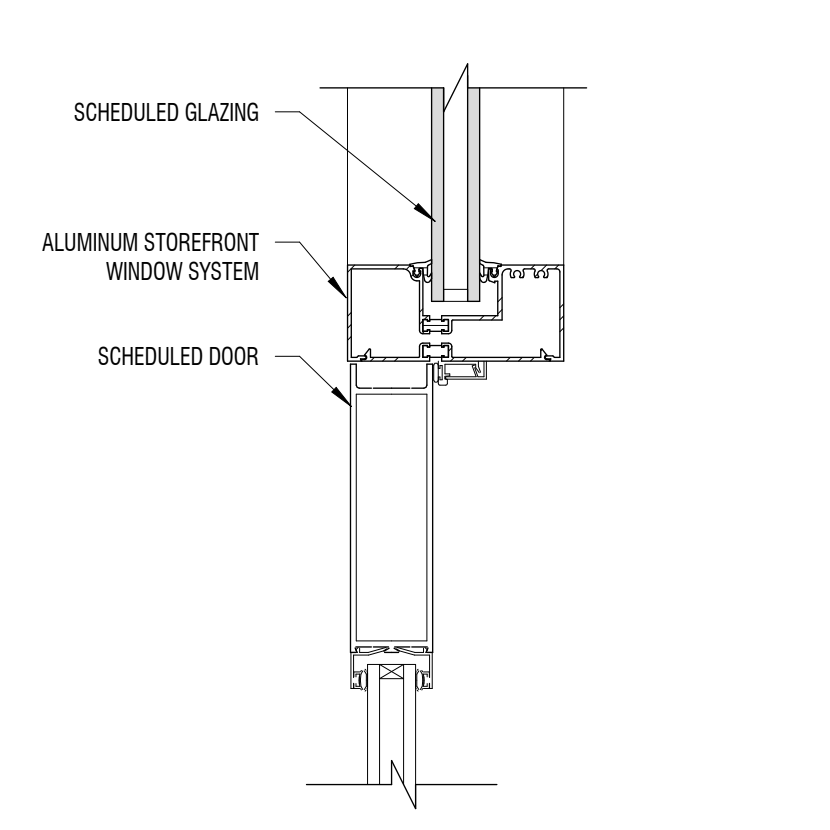
FINISH SCHEDULE

PAINT		BASE	
MARK:	P1	MARK:	B1
MANUFACTURER:	MATCH EXISTING	TYPE:	MATCH EXISTING
COLOR:		MANUFACTURER:	
SHEEN:		COLOR:	
NOTES:		SIZE:	
		STYLE:	
		NOTES:	

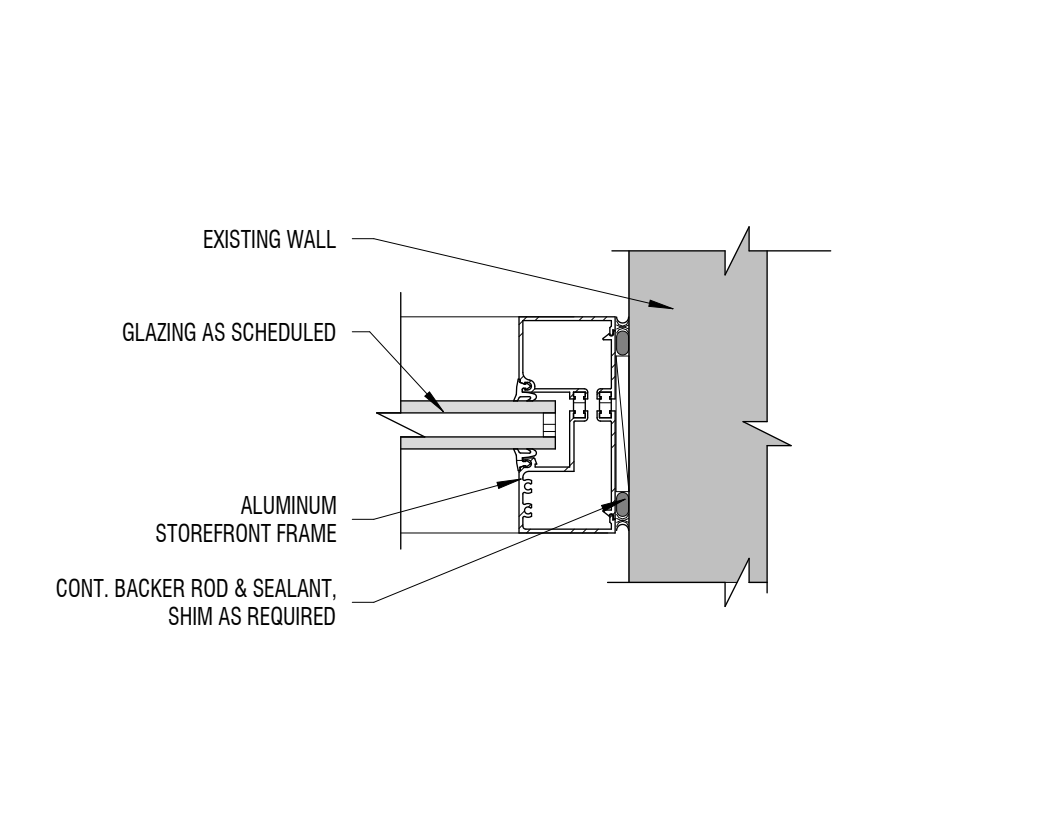
WINDOW SCHEDULE



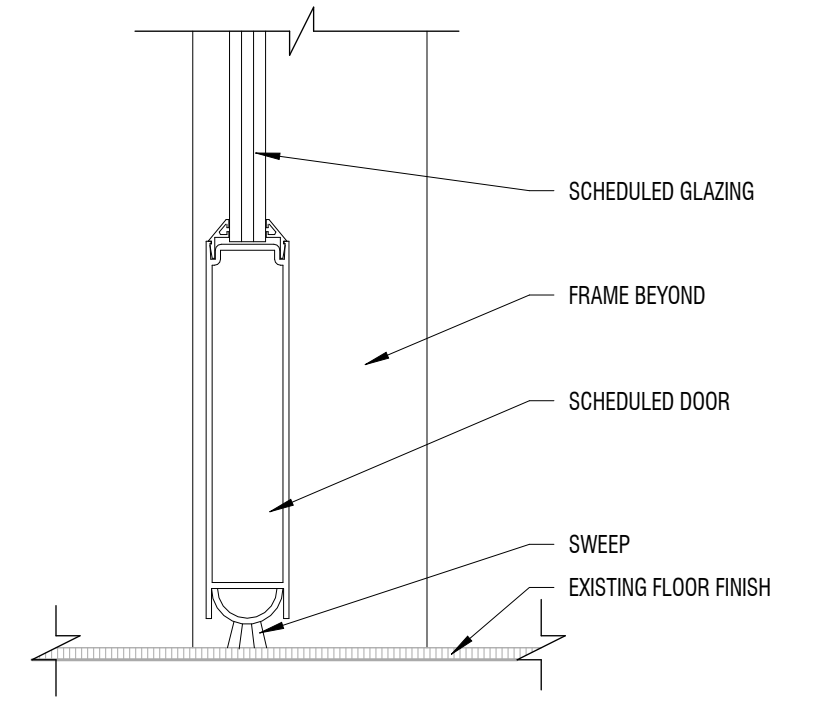
4 STOREFRONT HEAD DETAIL
 3" = 1'-0"



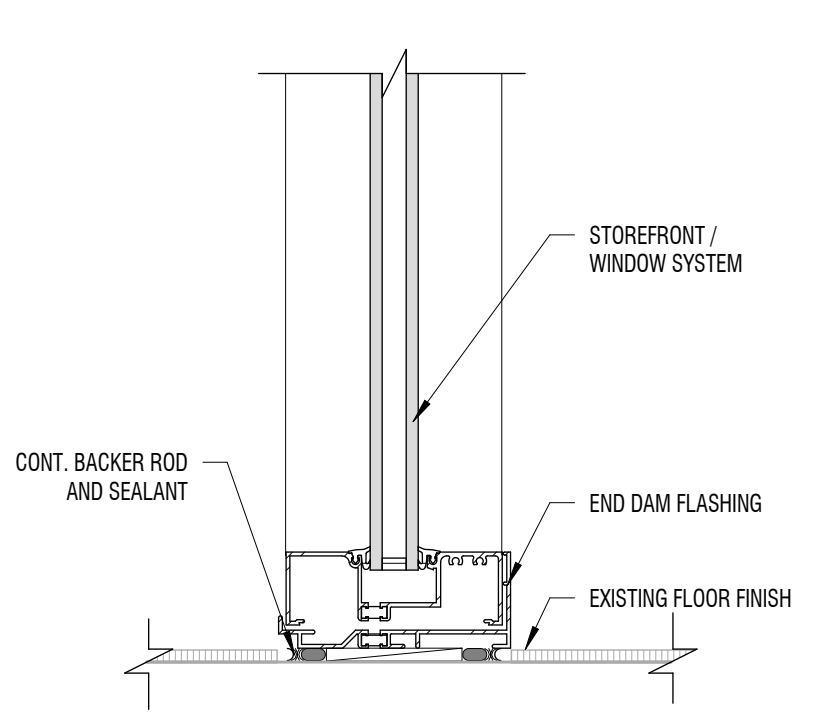
5 DOOR HEAD/JAMB DETAIL
 3" = 1'-0"



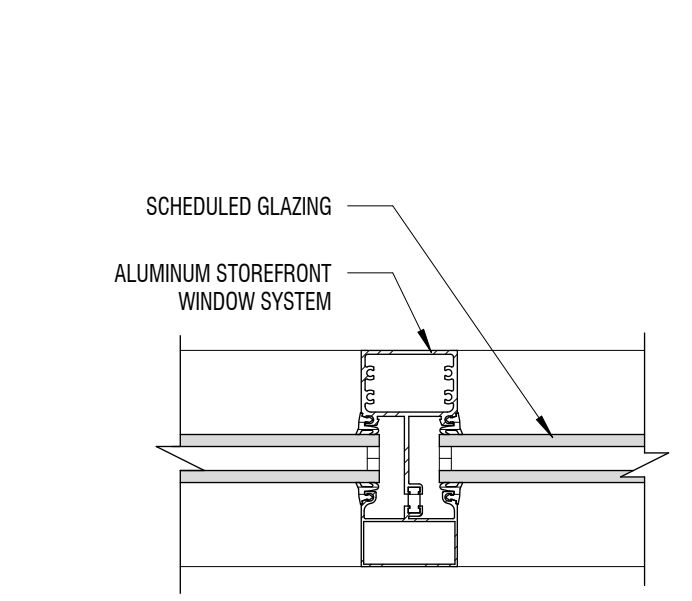
6 STOREFRONT JAMB DETAIL
 3" = 1'-0"



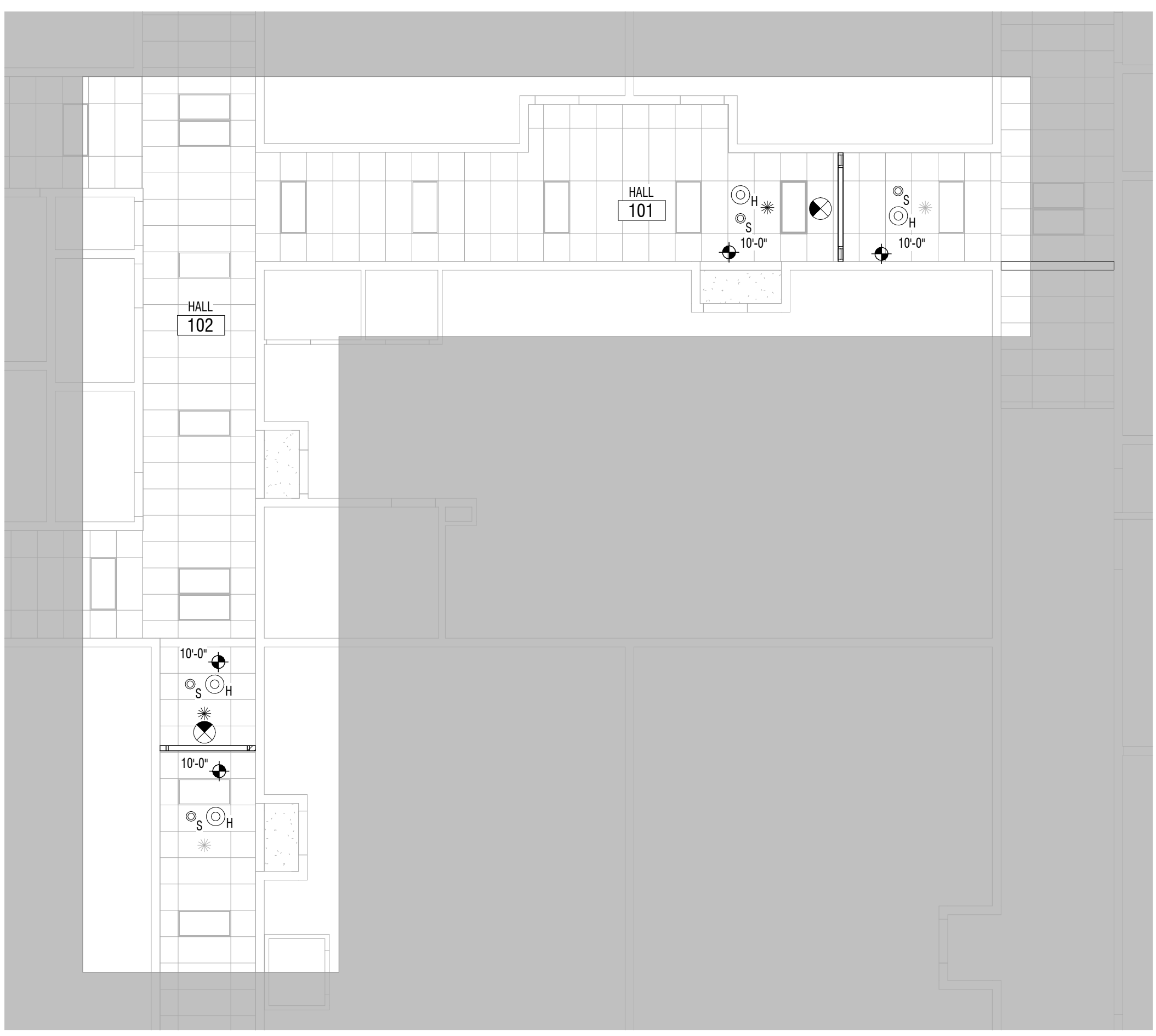
1 DOOR SILL DETAIL
 3" = 1'-0"



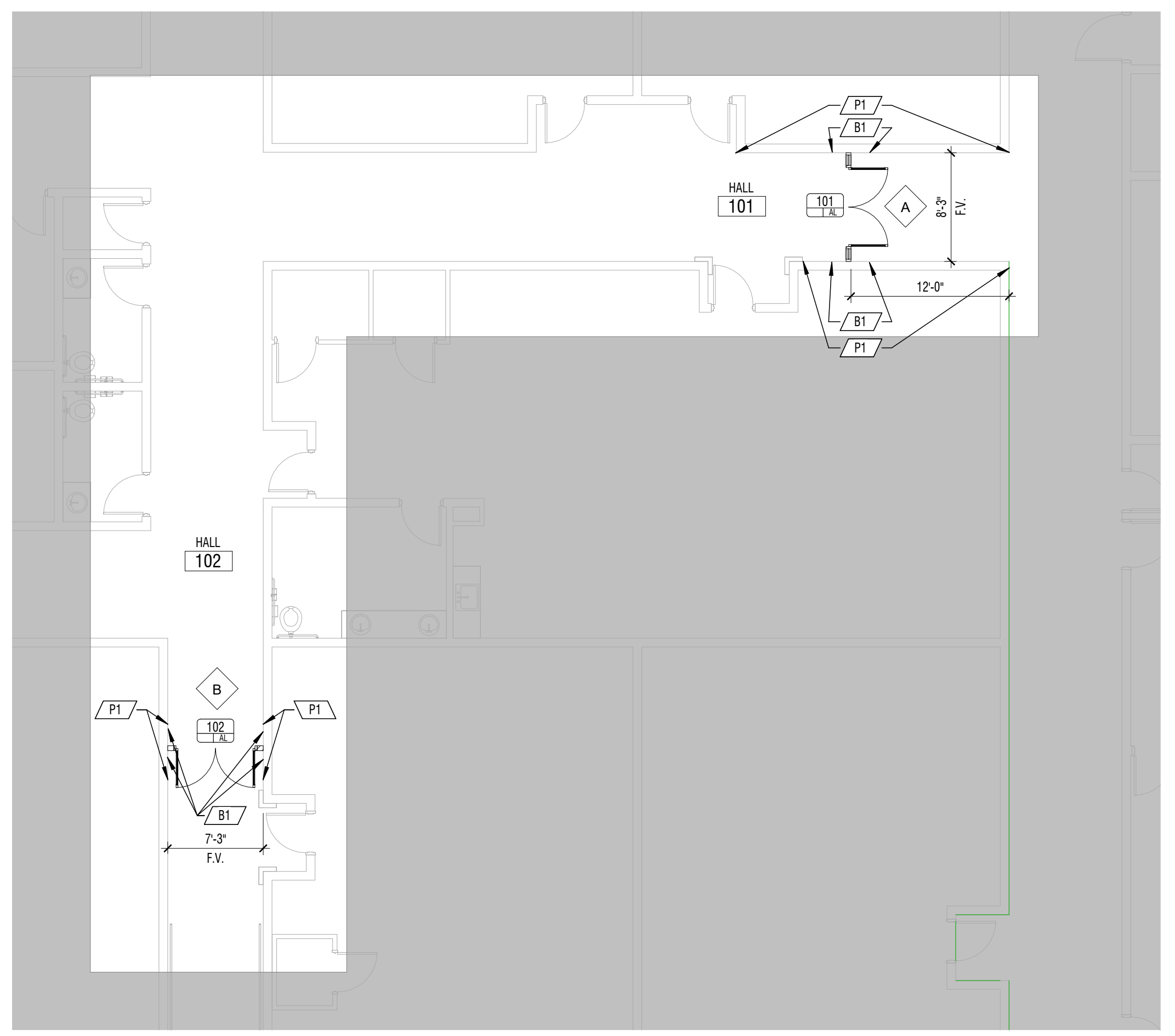
2 STOREFRONT SILL DETAIL
 3" = 1'-0"



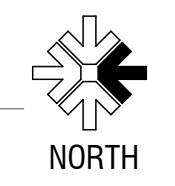
3 MULLION DETAIL
 3" = 1'-0"



A1 REFLECTED CEILING PLAN
 1/8" = 1'-0"



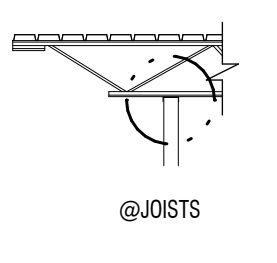
A3 FLOOR PLAN
 1/8" = 1'-0"



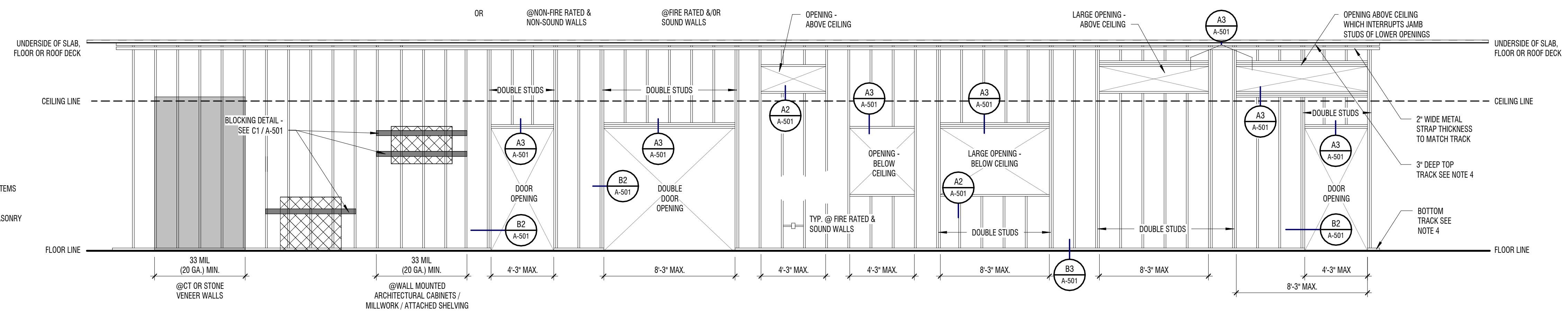
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BID SET

NOTE: STONE SHOULD NOT BE ATTACHED DIRECTLY TO SHAFT WALLS. PROVIDE ADDITIONAL FURRING FOR STONE BACK-UP.
 AT STONE WALLS, WHERE STONE EXCEEDS 10'-0" IN HEIGHT, OR IF THE SELECTED STONE IS GRAVITY SUPPORTED BY THE STUDS, THEY SHOULD BE ENGINEERED.

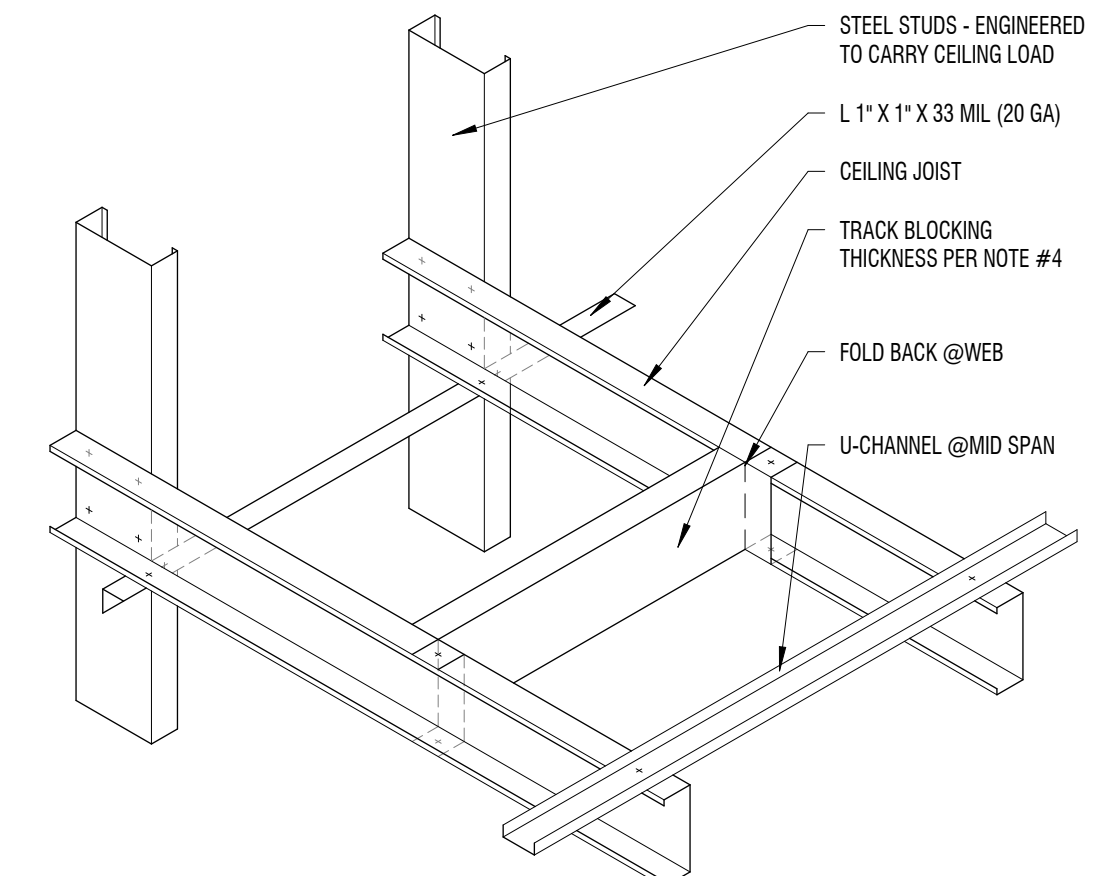
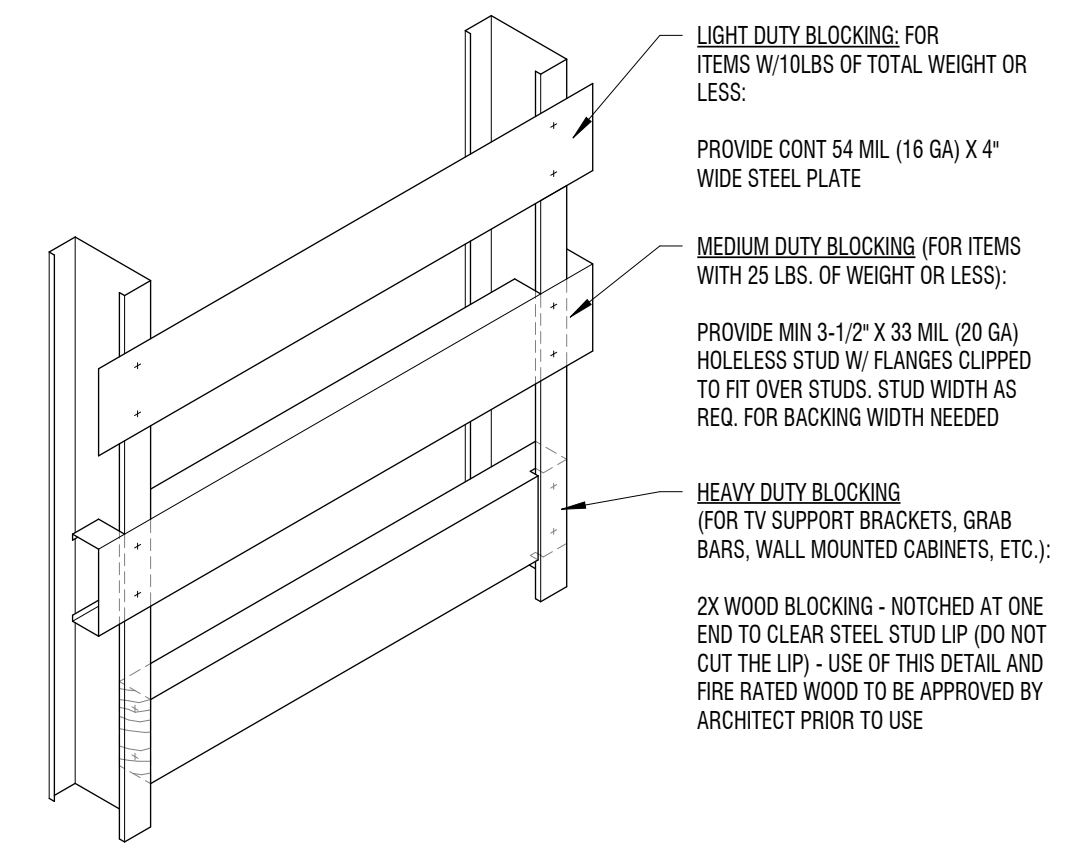


SHELVING, CABINETS, OR OTHER ITEMS ATTACHED TO WALL
 CT. STONE, CULTURED STONE, MASONRY PRODUCTS, AND ETC



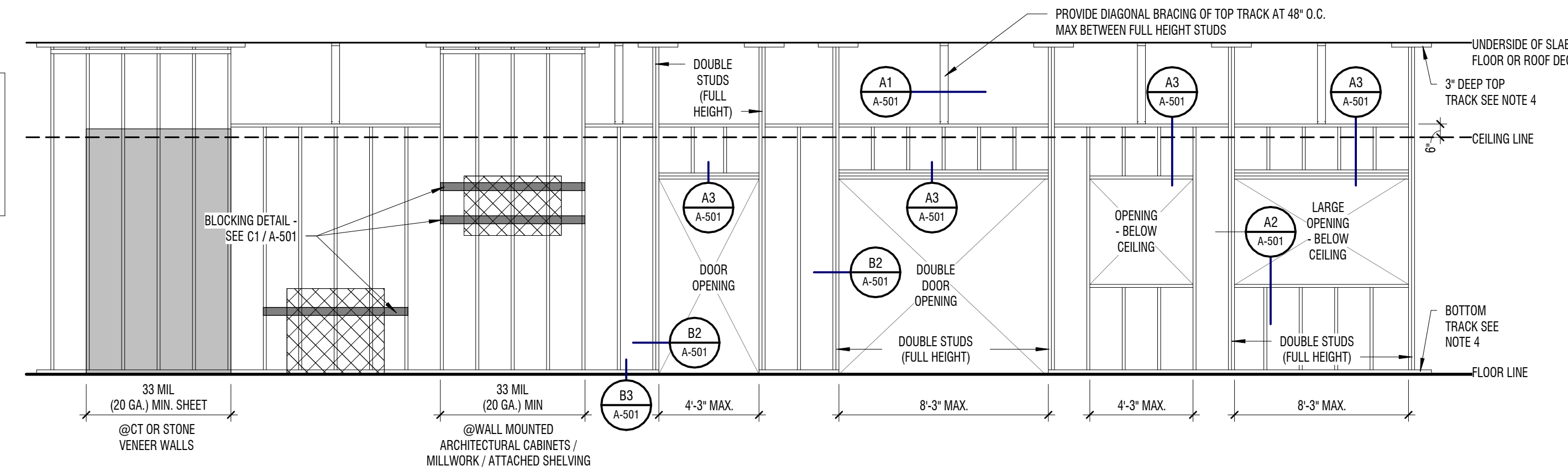
D1 STEEL STUDS TO B.O. STRUCTURE

1/4" = 1'-0" TYPICAL



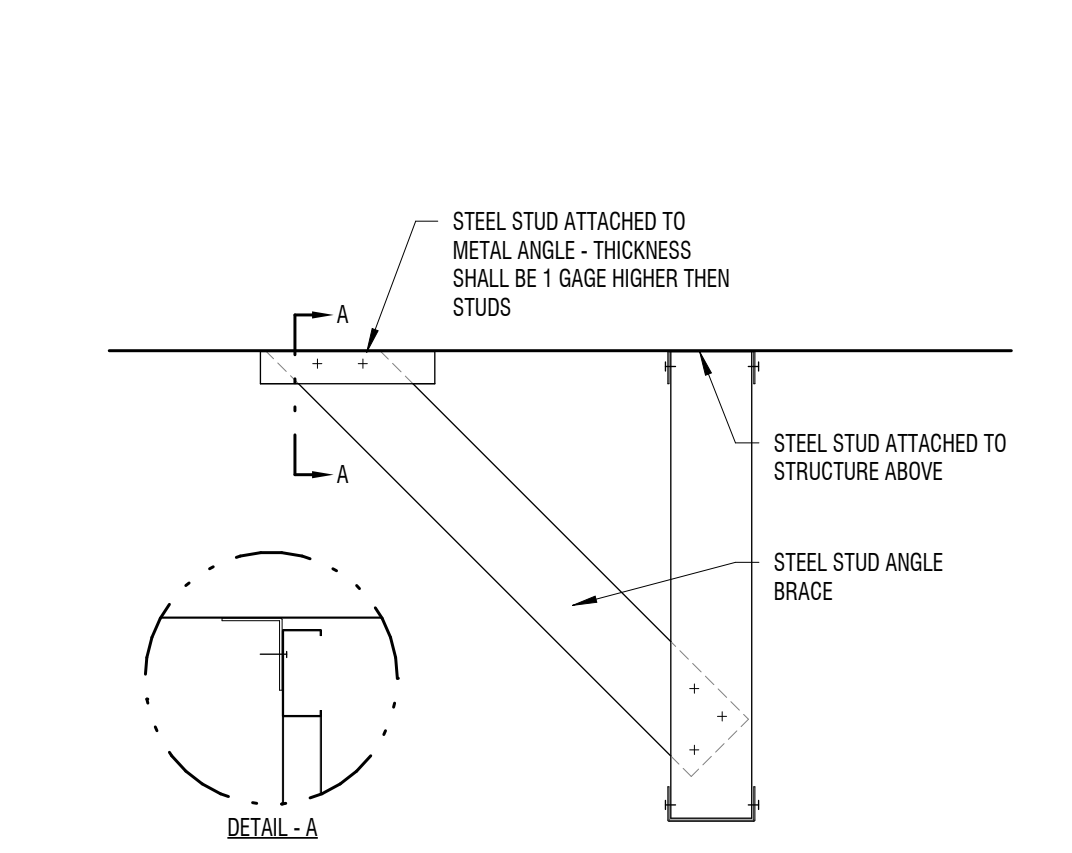
NOTE: STONE SHOULD NOT BE ATTACHED DIRECTLY TO SHAFT WALLS. PROVIDE ADDITIONAL FURRING FOR STONE BACK-UP.
 AT STONE WALLS, WHERE STONE EXCEEDS 10'-0" IN HEIGHT, OR IF THE SELECTED STONE IS GRAVITY SUPPORTED BY THE STUDS, THEY SHOULD BE ENGINEERED.

SHELVING, CABINETS, OR OTHER ITEMS ATTACHED TO WALL
 CT. STONE, CULTURED STONE, MASONRY PRODUCTS, AND ETC



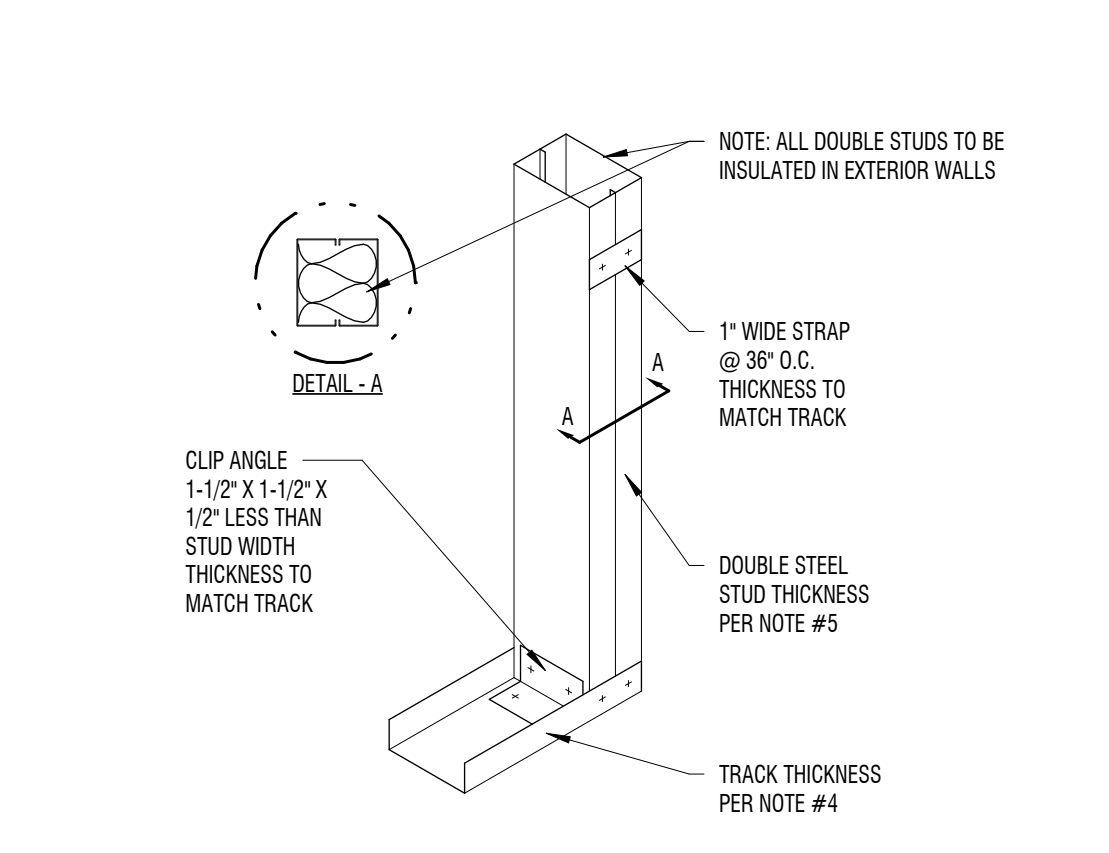
C1 WALL BLOCKING

1 1/2" = 1'-0" TYPICAL UNO



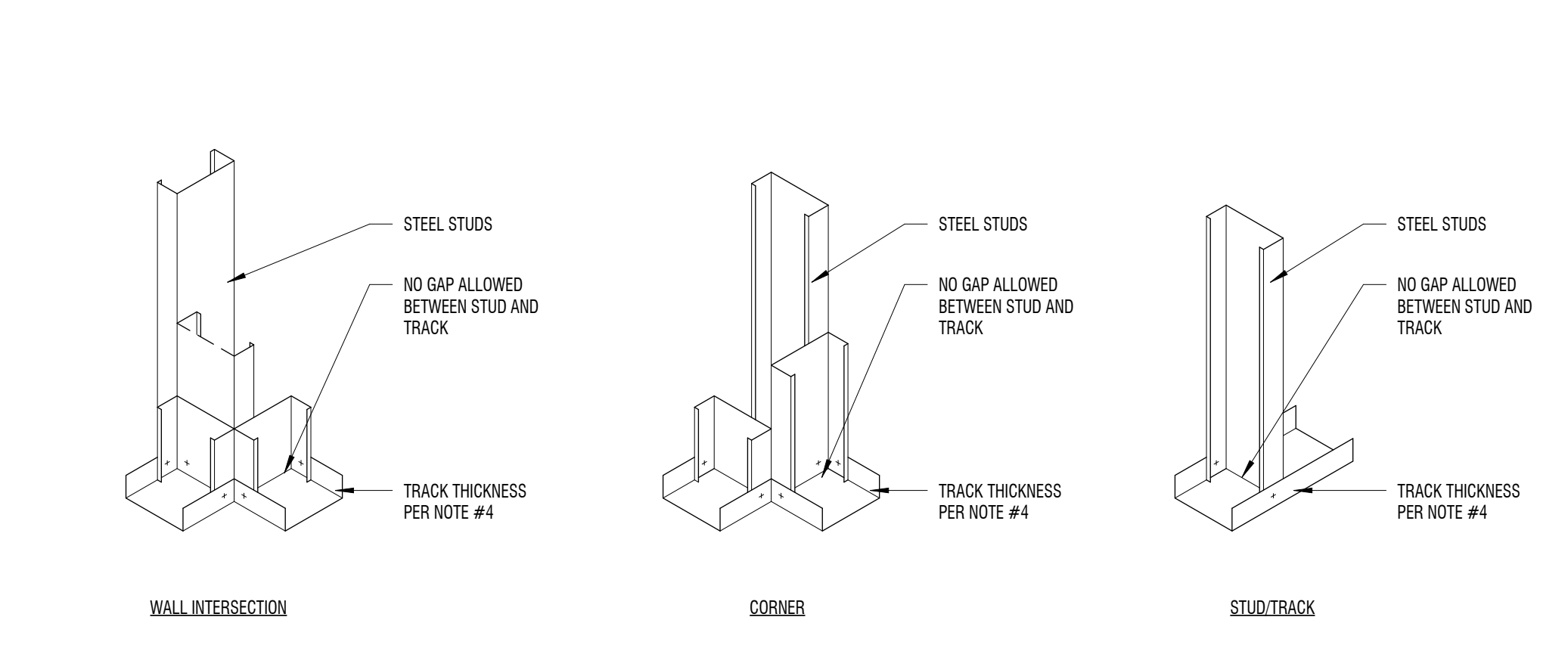
C2 CEILING FRAMING DETAILS

1 1/2" = 1'-0" TYPICAL



C3 STEEL STUDS EXT TO CLG HEIGHT

1/4" = 1'-0" TYPICAL



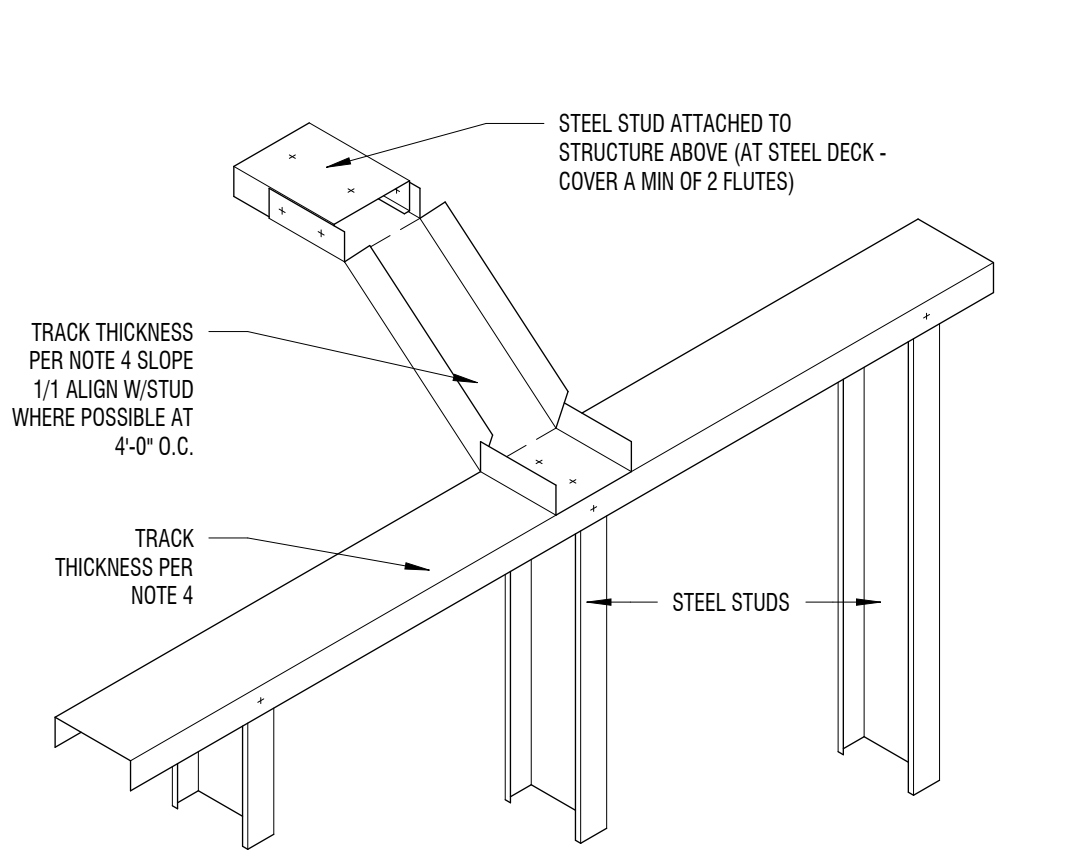
FRAMING NOTES

- STUD SPACING SHALL BE 16" O.C. UNLESS NOTED OTHERWISE.
- ALL STUDS SHALL BE "C" TYPE STUDS WITH A 1 1/4" FLANGE MINIMUM.
- DOUBLE STUDS AT SIDE OF OPENINGS ARE NOT ALLOWED TO BE CUT. MINIMUM GAGE OF STUDS AT SIDE OF OPENINGS TO BE 20 GA. AS LONG AS THE HEIGHT FALLS WITHIN THE LIMITS AS SET FORTH IN THE ALLOWABLE STEEL STUD HEIGHTS.
- ALL TOP AND BOTTOM TRACKS WILL BE A MINIMUM OF ONE LEVEL OF THICKNESS HIGHER THAN THE STUDS SECURED TO IT. THE MINIMUM THICKNESS SHALL BE 33 MIL (20 GA) NO. U.N.O. IN STRUCTURAL DRAWINGS.
 18 MIL (25 GA) STUDS = 33 MIL (20 GA) TRACKS
 33 MIL (20 GA) STUDS = 43 MIL (18 GA) TRACKS
 43 MIL (18 GA) STUDS = 54 MIL (16 GA) TRACKS
 EXAMPLE - IF YOU HAVE A 18 MIL (25 GA) STUD WALL WITH AN OPENING USING 33 MIL (20 GA) STUDS AROUND THE OPENING - A 33 MIL (20 GA) TRACK WILL BE REQUIRED.
- ALL DOUBLE STUDS AT OPENINGS, HEADERS, AND SILLS WILL BE A MINIMUM OF ONE LEVEL OF THICKNESS HIGHER THAN THE STUDS ADJACENT TO IT. THE MINIMUM THICKNESS SHALL BE 33 MIL (20 GA) UNO.
 18 MIL (25 GA) STUDS = 33 MIL (20 GA) TRACKS
 33 MIL (20 GA) STUDS = 43 MIL (18 GA) TRACKS
 43 MIL (18 GA) STUDS = 54 MIL (16 GA) TRACKS
- STUD IDENTIFICATION
 CHARACTER 1-3 = MEMBER DEPTH (362 = 3 5/8")
 CHARACTER 4 = STYLE (S = C-STUD/JOIST)
 CHARACTER 5-7 = FLANGE WIDTH (125 = 1 1/4")
 CHARACTER 8-9 = MATERIAL THICKNESS IN MILS
 FOR REFERENCE ONLY: 18 MILS = 25 GA = 33 MILS = 20 GA 43 MILS = 18 GA
- GYPSUM BOARD USED FOR THIS TABLE TO BE 5/8" ON 1 SIDE OF THE STEEL STUDS.
- GYPSUM BOARD USED FOR THIS TABLE TO BE 5/8" ON 1 SIDE OR TWO SIDES OF THE STEEL STUDS.
- MINIMUM THICKNESS OF STUDS FOR SUPPORT OF CERAMIC TILE SHALL BE 33 MILS (20 GAGE) - ACTUAL THICKNESS WILL BE DETERMINED BY THE HEIGHT OF THE STUD.
- NOT ALL POSSIBLE OPTIONS OF STEEL STUDS ARE SHOWN IN THIS TABLE. ALL OTHER VARIATIONS ARE TO BE REVIEWED AND APPROVED BY THE ARCHITECT OR STRUCTURAL ENGINEER.
- 25 ga STUDS ARE NOT PERMITTED FOR CEILING STUD

NOTE: INFORMATION IN THESE CHARTS COMES FROM STEEL STUD MANUFACTURERS ASSOCIATION "www.ssmna.com". NOT ALL AVAILABLE PRODUCTS HAVE BEEN SHOWN HERE OR LISTED. THESE CHARTS ARE FOR INTERIOR NON LOAD BEARING PARTITIONS ONLY. ALL LOAD BEARING PARTITIONS NEED TO BE ENGINEERED BY THE STRUCTURAL ENGINEER.

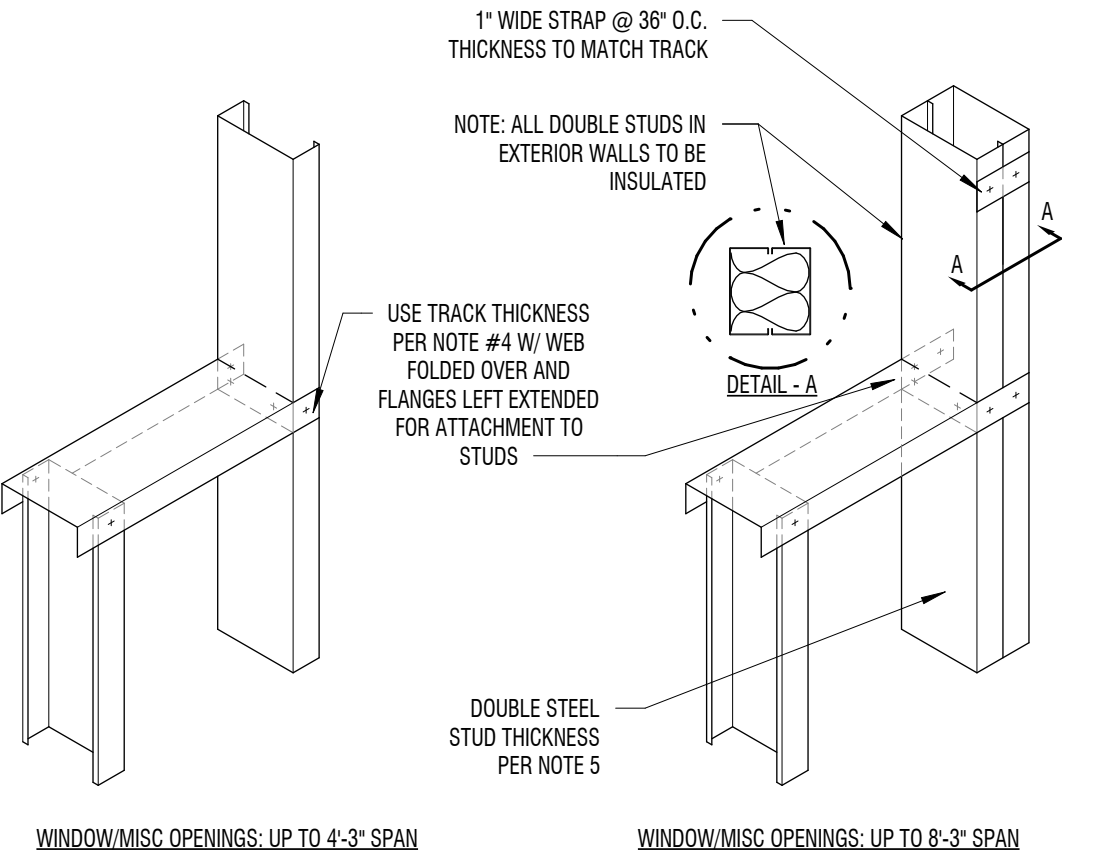
B1 DIAGONAL BRACING

1 1/2" = 1'-0" TYPICAL



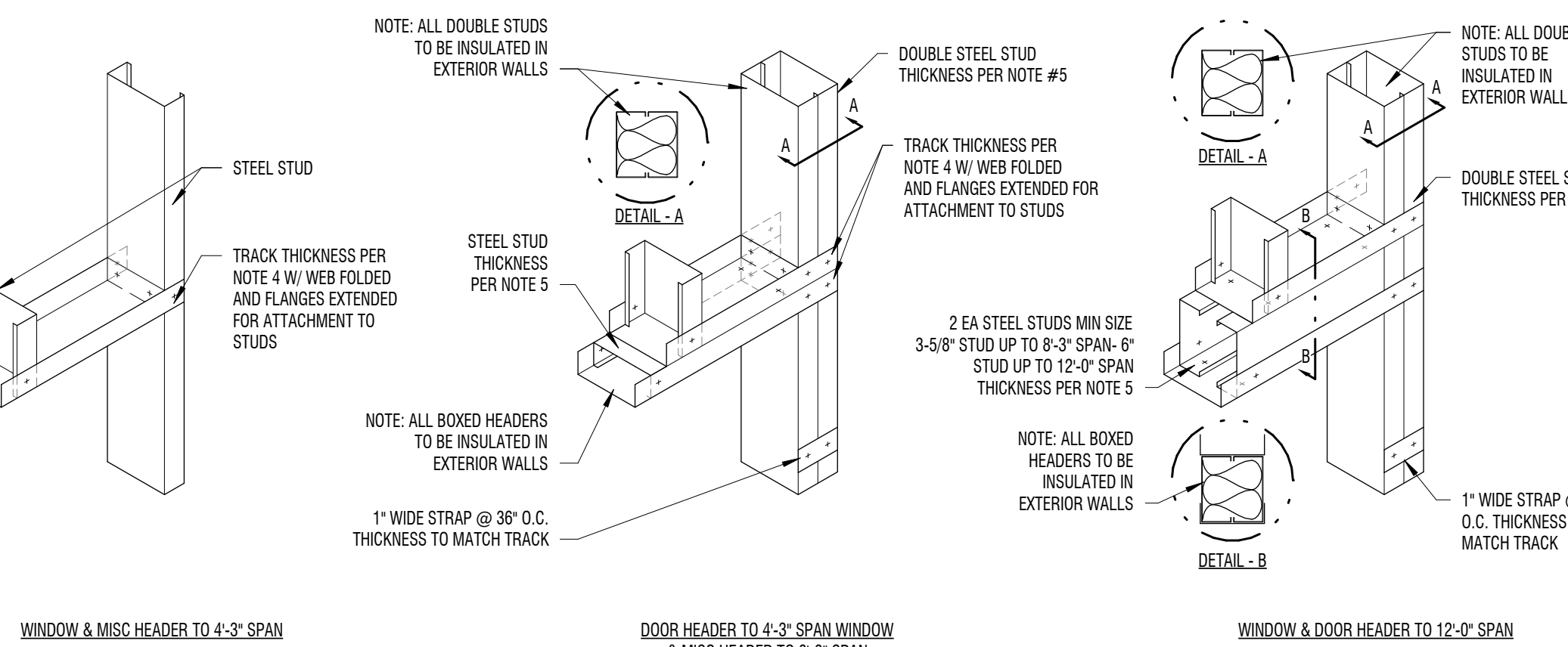
B2 END OF WALL / DOOR JAMB

1 1/2" = 1'-0" TYPICAL



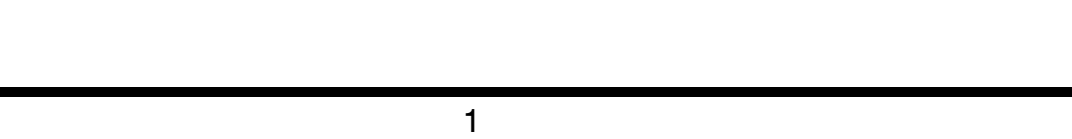
B3 MISC STUD / TRACK DETAILS

1 1/2" = 1'-0" TYPICAL



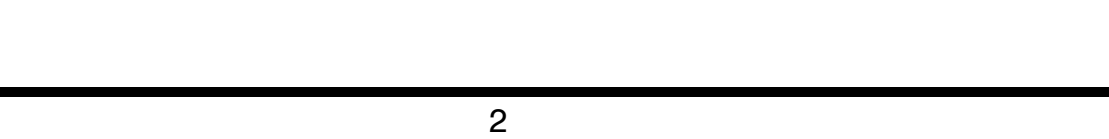
A1 DIAGONAL BRACE

1 1/2" = 1'-0" TYPICAL



A2 OPENING SILLS

1 1/2" = 1'-0" TYPICAL



A3 OPENING HEADERS

1 1/2" = 1'-0" TYPICAL



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ABBREVIATIONS INDEX			
ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
#	NUMBER	MH	MANHOLE
AC	ALTERNATING CURRENT	MIC	MICROPHONE
A.F.F.	ABOVE FINISH FLOOR	MIN	MINIMUM
AIC	AMPS INTERRUPTING CAPACITY	MTG	MOUNTING
AM	AMPS METER	MTR	MOTOR
AMP	AMPERE	N/A	NOT APPLICABLE
ANN	ANNUNCIATOR	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AUX	AUXILIARY	NEMA	NATIONAL ELECT. MANUFAC. ASSOC.
AWG	AMERICAN WIRE GAUGE	NFPA	NATIONAL FIRE PROTECTION ASSOC.
BC	BARE COPPER	N.I.C.	NOT IN CONTRACT
BFG	BELOW FINISH GRADE	NO	NORMALLY OPENED
C	CONDUIT	NTS	NOT TO SCALE
CAB	CABINET	OS & Y	OUTSIDE SCREW & YOKE
CATB	COMMUNITY ANTENNA TELEVISION	PB	PUSHBUTTON
CATV	CABLE TELEVISION	PF	POWER FACTOR
CKT	CIRCUIT	PFR	PHASE FAILURE RELAY
CLG	CEILING	PNL	PANEL
CNTR	CONTRACTOR	PT	POTENTIAL TRANSFORMER
C.O.	CONDUIT ONLY	PVC	POLYVINYL CHLORIDE CONDUIT
CRT	COMPUTER TERMINAL	(R)	RELOCATE
CT	CURRENT TRANSFORMER	RECEP	RECEPTACLE
CU	COPPER	REQ	REQUIREMENT
CW	COMPLETE WITH	RLA	RATED LOAD AMPS
DB	DECIBEL	RMP	ROCKY MOUNTAIN POWER
DC	DIRECT CURRENT	RMS	ROOT MEAN SQUARE
DWG	DRAWING	SE	SERVICE ENTRANCE
(E)	EXISTING	SPEC	SPECIFICATIONS
EC	EMPTY CONDUIT	SPKR	SPEAKER
EG	EMERGENCY GENERATOR	SS	SELECTOR SWITCH
EMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
EX	EXPLOSION PROOF	SWBD	SWITCHBOARD
FACP	FIRE ALARM CONTROL PANEL	SWGR	SWITCHGEAR
FC	FOOT CANDLE	TTB	TELEPHONE TERMINAL BOARD
FT	FOOT	TTC	TELEPHONE TERMINAL CABINET
GFI	GROUND FAULT INTERRUPTER	TV	TELEVISION
GND	GROUND	TYP	TYPICAL
GRC	GALVANIZED RIGID CONDUIT	UG	UNDERGROUND
HP	HORSE POWER	UPS	UNINTERRUPTED POWER SUPPLY
HZ	HERTZ	V	VOLT (KV-KILOVOLT)
IFC	INTERNATIONAL FIRE CODE	VAR	VOLT-AMPS/REACTIVE
IG	ISOLATED GROUND	VM	VOLT METER
IMC	INTERMEDIATE METALLIC CONDUIT	W	WATTS
IN	INCH	W/	WITH
J-BOX	JUNCTION BOX	WH	WATTHOUR METER
KV	KILOVOLT	W/O	WITHOUT
KVA	KILOVOLT AMPERES	WP	WEATHERPROOF
KVAR	KILOVAR	XFMR	TRANSFORMER
KW	KILOWATT	XFMR SW	TRANSFER SWITCH
LRA	LOCKED ROTOR AMPS	XP	EXPLOSION PROOF
LTG	LIGHTING	1P	SINGLE-PHASE
MNF	MANUFACTURER	2P	TWO-POLE
MAX	MAXIMUM	3P	THREE-POLE
MB	MAIN BUS	4P	FOUR-POLE
MCC	MOTOR CONTROL CENTER	Ø	PHASE
MCM	1000 CIRCULAR MILLS		

SHEET INDEX	
E001	ELECTRICAL SYMBOLS, SCHEDULES AND NOTES
E002	ELECTRICAL SPECIFICATIONS
E101	ELECTRICAL FLOOR PLAN
E201	ELECTRICAL DIAGRAMS
E202	ELECTRICAL DIAGRAMS

EXISTING SYSTEMS INFORMATION AND VENDOR CONTACTS (INCLUDE WITHIN BID)

BIDDING DIVISION 26 CONTRACTOR RESPONSIBLE FOR EXPANDING EXISTING SYSTEMS FOR THIS REMODEL PROJECT. PROVIDE A TURN-KEY SOLUTION AND BUILD-OUT FOR ALL IMPACTED SYSTEMS I.E. INTERCOM, FIRE ALARM, ACCESS CONTROL, AND INTRUSION.

ACCESS CONTROL SYSTEM - EXISTING LENEL S2 SYSTEM

COMPANY STONE SECURITY

CONTACT JOEY EDMUNDS

CELL PHONE NO. (801)910-8115

OFFICE PHONE NO. (877)888-0129

EMAIL joey@stonesecurity.net

PROVIDE CARD READERS AND ACCESS CONTROL CIRCUITS AS REQUIRED. PROVIDE NEW MODULE CARDS, ENCLOSURE, POWER SUPPLY, AND ASSOCIATED EQUIPMENT REQUIRED. UPDATE PROGRAMMING. PROVIDE NEW 6 CARD ENCLOSURE WITH PANEL SUPPLY AND (1) NEW CARD READER LOCATION.

FIRE ALARM SYSTEM - GAMEWELL FCI

COMPANY NELSON FIRE ALARM

CONTACT ASHLEY NELSON & TOBY TIMOTHY

CELL PHONE NO. (801)652-7991

OFFICE PHONE NO. (801)468-8300

EMAIL ashley@nelsonfire.com toby@nelsonfire.com

EXTEND EXISTING FIRE ALARM INITIATION/NOTIFICATION CIRCUITS TO ACCOMMODATE NEW FIRE ALARM DEVICES AS REQUIRED. MATCH SYSTEM WIRING. UPDATE PROGRAMMING.

GENERAL NOTES

- CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC) OF ALL EQUIPMENT FURNISHED UNDER ALL DIVISIONS, INCLUDING ALL EXISTING EQUIPMENT TO BE RE-USED. REVIEW ALL SHOP DRAWINGS AND EXISTING EQUIPMENT BEFORE BEGINNING ROUGH-IN.
- SEE SECTION 26 5100 OF THE SPECIFICATION FOR REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
- SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
- FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
- THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
- ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- CONTRACTOR SHALL VERIFY FURNITURE LAYOUT PRIOR TO ANY FLOORBOX OR POKE-THRU INSTALLATION. COORDINATE EXACT LOCATION OF FLOOR BOX OR POKE-THRU WITH OWNER AND FURNITURE PROVIDER PRIOR TO ROUGH-IN.
- CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH CONDUCTORS PER TABLE BELOW.

20 AMP MINIMUM BRANCH CIRCUIT CONDUCTOR SIZING			
MAXIMUM LENGTH	BRANCH CIRCUIT VOLTAGE		
CONDUCTOR LENGTH (FT)	120 VOLT	277 VOLT	
<70	MIN. #12 AWG	MIN. #12 AWG	
70 - 115	MIN. #10 AWG	MIN. #12 AWG	
115 - 170	MIN. #8 AWG	MIN. #10 AWG	
170 - 270	MIN. #6 AWG	MIN. #8 AWG	
271 - 380	NOTE B	MIN. #8 AWG	
>380	NOTE B	NOTE B	

- A. THESE ARE BASED ON MAXIMUM LENGTH OF CIRCUIT.
- B. PERFORM VOLTAGE DROP CALCULATIONS AND PROVIDE CONDUCTOR SIZE TO KEEP BRANCH CIRCUIT VOLTAGE DROP LESS THAN 3% WITH A 15 AMP LOAD.
- C. CONTRACTOR SHALL ENSURE THAT THE INSTALLATION OF EACH BRANCH CIRCUIT STAYS WITHIN 3% VOLTAGE DROP FOR A 15 AMP LOAD. IF NECESSARY, CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE TO MEET THE STANDARD AT NO ADDITIONAL COST TO OWNER.
- ALL CONDUIT SHALL BE INSTALLED IN STRAIGHT LINES PARALLEL TO, OR AT RIGHT ANGLES TO, THE STRUCTURE OR ADJACENT BUILDING ELEMENTS. SEPARATIONS BETWEEN CONDUITS AND FASTENINGS OF CONDUITS SHALL BE NEAT AND CONSISTENT. CONDUIT SHALL BE INSTALLED AS TIGHT TO THE BOTTOM OF STRUCTURAL ELEMENTS WHEN PARALLEL TO JOISTS AS CODE WILL ALLOW. OVERALL INSTALLATION SHALL BE ACCOMPLISHED IN AN AESTHETIC AND WORKMANLIKE MANNER. NO CONDUITS SHALL BE ALLOWED TO RUN PERPENDICULAR TO THE BOTTOM CHORD OF THE JOISTS.
 - DIVISION 26 SHALL VISIT SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS. FIELD VERIFY ALL ELECTRICAL EQUIPMENT.
 - BIDDERS SHALL EXAMINE THE SITE AND THE COMPLETE SET OF PLANS AND SPECIFICATIONS COVERING THE ENTIRE PROJECT. THEY SHALL BECOME FULLY CONVERSANT WITH THE TYPE OF GENERAL CONSTRUCTION AS WELL AS ALL PERTINENT FACTS AFFECTING THE COST OF CARRYING OUT THE WORK THEY WILL CONTRACT TO PERFORM.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE PROJECT PHASING WITH GENERAL CONTRACTOR AND BID AND PERFORM RESPONSIBILITIES FOR THIS PROJECT TO GENERAL CONTRACTOR EXPECTATIONS.
 - COORDINATE ELECTRICAL DEMOLITION WITH ARCHITECTURAL DRAWINGS AND GENERAL CONTRACTOR.
 - CLOSELY COORDINATE ANY REQUIRED POWER SHUTDOWNS WITH HEAD CUSTODIAN AND OWNER.
 - WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OF INSTALLATION OR NATURE OF WORK REQUIRED, THE CONTRACTOR WILL MAKE SUCH CHANGES WITHOUT ADDITIONAL COST TO THE OWNER. NO OTHER CHANGES MAY BE MADE WITHOUT WRITTEN PERMISSION OF THE OWNER.
 - SEQUENCE, COORDINATE, AND INTEGRATE INSTALLATIONS OF ELECTRICAL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK. GIVE PARTICULAR ATTENTION TO LARGE EQUIPMENT REQUIRING POSITIONING PRIOR TO CLOSING-IN THE BUILDING. COORDINATE THE CUTTING AND PATCHING OF BUILDING COMPONENTS TO ACCOMMODATE INSTALLATION OF ELECTRICAL EQUIPMENT AND MATERIALS.
 - DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
 - DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.
 - CONTRACTOR MUST CONCEAL ALL RACEWAY THROUGHOUT THE PROJECT. SURFACE MOUNT RACEWAY IS UNACCEPTABLE EXCEPT WHERE THE USE OF PAINTED SURFACE METAL RACEWAYS (EMT) IS APPROVED SOLELY BY THE ARCHITECT. PAINT TO MATCH SURROUNDING SURFACE.
 - ALL CONCRETE CUT AND PATCH WORK REQUIRED FOR FLOOR BOXES INSTALLATION AND/OR RELOCATION OF ELECTRICAL DEVICES AND PANELS THAT REQUIRE WORK WITHIN THE FLOORS SHALL BE DONE BY ELECTRICAL CONTRACTOR. ALL CORE CUTTING FOR NEW SERVICE SHALL ALSO BE COVERED UNDER ELECTRICAL CONTRACTORS REQUIRED WORK.
 - CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE OF ALL WASTE, SURPLUS MATERIALS, RUBBISH OR DEBRIS WHICH IS CAUSED BY HIS EMPLOYEES OR RESULTING FROM HIS WORK. AFTER ALL EQUIPMENT AND DEVICES HAVE BEEN INSTALLED, REMOVE ALL LABELS, STICKERS, STAINS, TEMPORARY COVERS, ETC. IDENTIFICATION PLATES ON ALL EQUIPMENT.
 - IT IS THE INTENT THAT THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR.
 - CAREFULLY REVIEW THE ENTIRE DRAWING PACKAGE PRIOR TO PROVIDING BID, INCLUDING THE ARCHITECTURAL AND MECHANICAL DRAWINGS. NOT REVIEWING THE ENTIRE SET IS NOT ACCEPTABLE.
 - PROVIDE CONDUIT FROM DEVICE TO DEVICE IN OPEN AND/OR EXPOSED CEILINGS. CEILINGS WITH CLOUDS ARE CONSIDERED OPEN/EXPOSED CEILING. NO EXPOSED CABLES SHALL BE SEEN FROM BELOW.
 - PROVIDE WEATHERPROOF, NEMA 3R RATED EQUIPMENT FOR ALL EXTERIOR APPLICATIONS.

DEMOLITION NOTES

- COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNECTION TO EXISTING SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEMS INCLUDED UNDER DIVISION 26 (16).
- RELOCATE, REWIRE AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
- CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. EXCEPT WHERE THE USE OF SURFACE METAL RACEWAYS (E.G. WIRE MOLD) IS INDICATED ON DRAWINGS OR IN SPEC.
- LEAVE ALL EXISTING EQUIPMENT, IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC. TO WORKING CONDITION.
- EXISTING RACEWAYS MAY BE REUSED (IN PLACE) WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. INSURE INTEGRITY OF EXISTING RACEWAY BEFORE REUSE.
- REMOVE ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED.
- REMOVE EXISTING LIGHT FIXTURES WHICH ARE NOT TO BE REUSED, PLACE IN CARTON, LABEL APPROPRIATELY, AND RETURN TO OWNER, OR PROPERLY DISPOSE OF FIXTURES THAT THE OWNER CHOOSES NOT TO KEEP.
- DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
- DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.

SYMBOL LEGEND

- NOTES:
- SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.
 - HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISHED FLOOR.
 - REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
 - SUBSCRIPT INDICATES FIXTURES TO BE CONTROLLED.
 - NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED), USE 'HD' 480 V.
 - HEIGHT MEASURED TO TOP OF THE BOX FROM FINISHED FLOOR.
 - PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
 - DOUBLE ARROWS INDICATES A DOUBLE FACE UNIT.
 - DEVICES NOTED WITH AN 'A' INDICATE TO COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.
 - SUBSCRIPT INDICATES NEMA CONFIGURATION.
 - SOLID BOX AROUND DEVICE INDICATES INSTALLED IN FLOOR. DASHED BOX AROUND DEVICE INDICATES INSTALLED IN CEILING.
 - COORDINATE WITH DOOR HARDWARE SUPPLIER.
 - FOR WATER COOLER LOCATION, SEE DIAGRAM R002. FOR ALL OTHER LOCATIONS, MOUNT AT +16" TO BOTTOM OF BOX FROM FINISHED FLOOR, OR AS NOTED.
 - ARROWS SHOWN ON DEVICE INDICATE AIMING DIRECTION.
 - CAMERA NUMBERS ARE SHOWN INSIDE THE CAMERA SYMBOL. CAMERA TYPES ARE INDICATED IN TAG.
 - MOUNT ON TRACK OF OVERHEAD DOOR, 6" FROM TOP OF DOOR, UNLESS OVERHEAD DOOR IS A ROLL UP DOOR, THEN MOUNT PER MANUFACTURER'S INSTRUCTIONS.
 - INSTALL DEVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - DASHED LINE INDICATES EQUIPMENT CLEARANCES. ARROW INDICATES FRONT OF RACK.
 - SPEAKER TO BE MOUNTED IN HORIZONTAL POSITION.
 - MOUNTING HEIGHTS TO BOTTOM OF DISPLAY.
- *TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED ON THIS SET OF DRAWINGS.

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

GENERAL				GENERAL			
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES	SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
—	ONE CIRCUIT, HOME RUN TO PANEL			□	EQUIPMENT PANEL, SEE DRAWINGS	+72"	6.
—	2 CIRCUIT, HOME RUN TO PANEL			≡/≡	CABLE TRAY	AS NOTED	
—	3 CIRCUIT, HOME RUN TO PANEL			J—	GROUND BUS BAR	+18"	6.
—	CONDUIT RUN CONCEALED IN WALL OR CEILING			X	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
---	CONDUIT RUN CONCEALED IN FLOOR OR GROUND			X	EQUIPMENT NUMBER		
—○	CONDUIT UP			X	ARCHITECTURAL ROOM NUMBER		
—●	CONDUIT DOWN			X	DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE		
—	CONDUIT STUB LOCATION	CAP CONDUIT		X	DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE / LEGEND		
—	CONDUIT / CIRCUIT CONTINUATION						

MULTIPLE SYSTEM SYMBOLS			
Ⓡ	RECEPTACLE SWITCH PACK		
Ⓢ	DUPLEX RECEPTACLE	ABOVE CEILING	
Ⓣ	SIMPLEX RECEPTACLE	UPPER OUTLET SWITCH CONTROLLED	+18" OR AS NOTED 2.9.
Ⓤ	DUPLEX RECEPTACLE		+18" OR AS NOTED 2.9.
ⓖ	DUPLEX RECEPTACLE		+18" OR AS NOTED 2.9. 11.
ⓗ	DUPLEX RECEPTACLE		9.
ⓓ	5MA GFCI CIRCUIT BREAKER PROTECTED RECEPTACLE		13.
ⓓP	WEATHERPROOF RECEPTACLE		+24" OR AS NOTED 2.9.
ⓓG	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE		+18" OR AS NOTED 2.9.
ⓓR	DUPLEX RECEPTACLE EMERGENCY POWER (RED)		+18" OR AS NOTED 2.9. 11.
ⓓF	FOURPLEX RECEPTACLE		+18" OR AS NOTED 2.9. 11.
ⓓI	GROUND FAULT INTERRUPTER FOURPLEX RECEPT		+18" OR AS NOTED 2.9.

LIGHTING			
○	CEILING LIGHT FIXTURE	CEILING	1.
○	WALL LIGHT FIXTURE	AS NOTED	1.
○	RECESSED DOWNLIGHT FIXTURE	CEILING	1.
○	RECESSED WALL-WASH DOWNLIGHT FIXTURE	CEILING	1.
○	LIGHT FIXTURE	AS NOTED	1.
○	EGRESS LIGHT FIXTURE	AS NOTED	1.
⊗	CEILING / WALL MOUNTED EXIT LIGHT	CEILING / AS NOTED	1.3. 8.
⚡	EMERGENCY LIGHT FIXTURE	AS NOTED	1.
⊗	COMBO EXIT / EMERGENCY LIGHT FIXTURE	AS NOTED	1.
⌚	TIME CLOCK	+60"	2.

POWER			
Ⓢ	PLUGMOLD	+48" OR AS NOTED	2. SEE SPEC.
ⓈP	FLAT PANEL DISPLAY WALL BOX TVSS RECEPT., DATA AND OTHER DEVICES. REFER TO DIAGRAMS	AS NOTED	SEE DIAGRAM, SPEC. 26-2726
ⓈC	CEILING PROJECTION SYSTEM CEILING BOX	ABOVE CEILING	SEE DIAGRAM, SPEC.
Ⓢ	DOORBELL CHIME	+90"	2.
ⓈB	FLOOR BOX - SEE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.
ⓈT	POKE THRU - SEE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.
—	PANELBOARD		
—	MAIN DISTRIBUTION PANEL		
—	TELEPHONE DEMARICATION BOARD		
ⓈR	EQUIPMENT CEILING RACK	CEILING	
ⓈP	EQUIPMENT 4-POST RACK / CABINET	AS NOTED	18. SEE SPEC.
ⓈP	EQUIPMENT 2-POST RACK	AS NOTED	18. SEE SPEC.
ⓈM	UTILITY METER / CT CABINET	+72"	6.

FIRE ALARM			
ⓈS	SMOKE DETECTOR	CEILING	
ⓈSC	SMOKE/CARBON MONOXIDE DETECTOR	CEILING	
ⓈC	CARBON MONOXIDE DETECTOR	CEILING	
ⓈH	HEAT DETECTOR	CEILING	
ⓈD	DUCT SMOKE DETECTOR	MTD. IN DUCT	

COLOR LEGEND			
—	LIGHTING FIXTURES	—	POWER DEVICES
—	LIGHTING DEVICES	—	TELECOMMUNICATIONS
—	POWER EQUIPMENT	—	FIRE ALARM
—	CABLE TRAY	—	CONDUIT
—		—	AUDIOVISUAL
—		—	SECURITY

ELECTRICAL SPECIFICATIONS

<p>ELECTRICAL GENERAL PROVISIONS</p> <ul style="list-style-type: none"> DESCRIPTION OF WORK: EXTENT OF ELECTRICAL WORK IS INDICATED ON DRAWINGS. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SUPERVISION AND SERVICE NECESSARY FOR A COMPLETE ELECTRICAL SYSTEM. WORK INCLUDES, BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWING ITEMS: <ul style="list-style-type: none"> ELECTRICAL CONNECTIONS FOR EQUIPMENT CONDUIT RACEWAY CONDUCTORS AND CABLES ELECTRICAL BOXES AND FITTINGS SUPPORTING DEVICES ELECTRICAL SEISMIC CONTROL WIRING DEVICES LIGHT FIXTURES ELECTRICAL IDENTIFICATION SECURITY SYSTEMS TELECOMMUNICATIONS FIRE ALARM AND DETECTION SYSTEMS VISIT THE SITE DURING THE BIDDING PERIOD TO DETERMINE EXISTING CONDITIONS AFFECTING ELECTRICAL AND OTHER WORK. ALL COSTS ARISING FROM SITE CONDITIONS AND/OR PREPARATION SHALL BE INCLUDED IN THE BASE BID. NO ADDITIONAL CHARGES WILL BE ALLOWED DUE TO INADEQUATE SITE INSPECTION. QUALITY ASSURANCE: PERFORM WORK IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), COMPLY WITH REQUIREMENTS OF STATE AND LOCAL ORDINANCES. OBTAIN ALL PERMITS, INSPECTIONS, ETC. FROM AUTHORITY HAVING JURISDICTION (AHJ). EMPLOY ONLY QUALIFIED CRAFTSMEN WITH AT LEAST THREE YEARS OF EXPERIENCE. WORKMANSHIP SHALL BE NEAT, HAVE A GOOD MECHANICAL APPEARANCE AND CONFORM TO BEST ELECTRICAL STATE CONTRACTING LICENSE. PROVIDE EQUIPMENT AND MATERIAL THAT ARE UNDERWRITERS LABORATORIES INC. (UL) LISTED AND LABELED. SUBMITTALS: AFTER THE CONTRACT IS AWARDED BUT PRIOR TO MANUFACTURE OR INSTALLATION OF ANY EQUIPMENT, PREPARE COMPLETE SHOP DRAWINGS. <ul style="list-style-type: none"> PROVIDE SUBMITTALS IN PORTABLE DOCUMENT FORMAT (PDF). DOCUMENTS MUST BE ELECTRONICALLY BOOKMARKED AND KEYWORD SEARCHABLE USING ADOBE ACROBAT (HTTP://WWW.ADOBE.COM/ACROBAT) OR BLUEBEAM REVU (HTTP://WWW.BLUEBEAM.COM) FOR EACH RELEVANT SECTION. (I.E. INCLUDE ELECTRONIC BOOKMARKS SEPARATING "LIGHT FIXTURES" FROM "PANELBOARDS".) ELECTRONICALLY HIGHLIGHT ALL OPTIONS FOR LIGHT FIXTURES, ELECTRICAL EQUIPMENT, ETC. MANUAL HIGHLIGHTING AND SCANNING OF THE DOCUMENTS IS NOT ACCEPTABLE AND WILL NOT BE REVIEWED. PROVIDE ONLY COMPLETED CUTSHEETS FOR ALL FIXTURE AND EQUIPMENT TYPES. BLANK CUTSHEETS SUBMITTED WITH A SCHEDULE ARE NOT ACCEPTABLE AND WILL NOT BE REVIEWED. A MAXIMUM OF ONE SUBMITTAL PER SPECIFICATION SECTION IS ALLOWED. IT IS NOT ACCEPTABLE TO PROVIDE A PRODUCT BY PRODUCT SUBMITTAL. SINGLE PRODUCT BY PRODUCT SUBMITTALS WILL NOT BE REVIEWED. <ul style="list-style-type: none"> LIGHT FIXTURES ELECTRICAL IDENTIFICATION SECURITY SYSTEMS TELECOMMUNICATIONS FIRE ALARM AND DETECTION SYSTEMS RECORD DRAWINGS: MAINTAIN ON A DAILY BASIS, A COMPLETE SET OF RECORD DRAWINGS, REFLECTING AN ACCURATE DIMENSIONAL RECORD OF ALL BURIED OR CONCEALED WORK. MARK RECORD DRAWINGS TO SHOW THE PRECISE LOCATION OF CONCEALED WORK AND EQUIPMENT, INCLUDING CONCEALED OR EMBEDDED CONDUIT AND JUNCTION BOXES AND ALL CHANGES AND DEVIATIONS IN THE WORK FROM THAT SHOWN ON THE CONTRACT DOCUMENTS. OPERATION AND MAINTENANCE MANUALS: PROVIDE OPERATING INSTRUCTION AND MAINTENANCE DATA BOOKS FOR ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THIS DIVISION. GUARANTEE: ENSURE THAT ELECTRICAL SYSTEMS INSTALLED UNDER THIS CONTRACT IS IN PROPER WIRING ORDER AND IN COMPLIANCE WITH DRAWINGS, SPECIFICATIONS, AND/OR AUTHORIZED CHANGES. WITHOUT ADDITIONAL CHARGE, REPLACE ANY WORK OR MATERIALS WHICH DEVELOP DEFECTS, EXCEPT FROM ORDINARY WEAR AND TEAR, WITHIN ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. FIRE PROTECTION SEALS: SEAL ALL PENETRATIONS FOR WORK OF THIS SECTION THROUGH FIRE RATED FLOORS, WALLS, AND CEILINGS TO PREVENT THE SPREAD OF SMOKE, FIRE, TOXIC GAS, OR WATER THROUGH THE PENETRATION EITHER BEFORE, DURING AND AFTER FIRE. POWER OUTAGES: ALL POWER OUTAGES REQUIRED FOR EXECUTION OF THIS WORK SHALL OCCUR DURING THE NON-STANDARD WORKING HOURS AND AT THE CONVENIENCE OF THE OWNER. INCLUDE ALL COSTS FOR OVERTIME WORK IN BID. 	<p>SUPPORTING DEVICES</p> <ul style="list-style-type: none"> PROVIDE SUPPORTS, ANCHORS, SLEEVES AND SEALS AS REQUIRED FOR A COMPLETE RACEWAY SUPPORT SYSTEM, INCLUDING BUT NOT LIMITED TO: CLEVIS HANGERS, RISER CLAMPS, C-CLAMPS, BEAM CLAMPS, ONE AND TWO HOLE CONDUIT STRAPS, OFFSET CONDUIT CLAMPS, EXPANSION ANCHORS, TOGGLE BOLTS, THREADED RODS, U-CHANNEL STRUT SYSTEM, AND ALL ASSOCIATED ACCESSORIES. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND WITH RECOGNIZED INDUSTRY PRACTICES TO INSURE SUPPORTING DEVICES COMPLY WITH REQUIREMENTS. PROVIDE RIGID ATTACHMENT OF ALL FLOOR MOUNTED EQUIPMENT TO THE FLOOR SLAB OR STRUCTURAL SYSTEM. <p>ELECTRICAL SEISMIC CONTROL</p> <ul style="list-style-type: none"> PROVIDE SEISMIC CONTROL EQUIPMENT INCLUDING BUT NOT LIMITED TO: VIBRATION ISOLATORS, FLEXIBLE CONNECTIONS, RIGID STEEL FRAMES, ANCHORS, INSERTS AND ATTACHMENTS, SEISMIC SNUBBER AND BRACING TO MEET THE SEISMIC REQUIREMENTS FOR THE PROJECT SITE. <p>WIRING DEVICES</p> <ul style="list-style-type: none"> PROVIDE GRADE FACTORY-FABRICATED WIRING DEVICES, IN TYPES, AND ELECTRICAL RATINGS FOR APPLICATIONS INDICATED AND COMPLYING WITH NEMA STD5 PUB NO. WD-1. PROVIDE HEAVY DUTY SPECIFICATION GRADE, 20- AMPERES RATED, GROUNDING TYPE CONVENIENCE OUTLETS. PROVIDE 20- AMPERES RATED TOGGLE SWITCHES. CONSTRUCT WIRING DEVICE OF HEAVY DUTY HIGH IMPACT NYLON AND PROVIDE COVER PLATES TO MATCH. PROVIDE DEVICES IN COLORS SELECTED BY ARCHITECT. <p>LIGHTING FIXTURES</p> <ul style="list-style-type: none"> PROVIDE LIGHTING FIXTURES COMPLETE WITH ALL COMPONENTS FOR EACH SIZE, TYPE, AND RATING INDICATED. THIS INCLUDES, BUT NOT LIMITED TO HOUSING, DRIVER, REFLECTORS, AND WIRING. SIZE FUSES PER BALLAST MANUFACTURER'S RECOMMENDATION. PROVIDE ALL NECESSARY SUPPORTS, BRACKETS, AND MISCELLANEOUS EQUIPMENT FOR MOUNTING OF FIXTURES. SUPPORT ALL GRID MOUNTED FIXTURES FROM THE BUILDING STRUCTURE WITH #12 GA. STEEL WIRE ATTACHED TO EACH CORNER, INDEPENDENT OF THE CEILING SYSTEM. PROVIDE BACKING SUPPORTS. PROVIDE GYPSUM BOARD PROTECTION AS REQUIRED TO MAINTAIN FIRE RATING OF EACH CEILING IN WHICH FIXTURES ARE INSTALLED. PROVIDE ALL EXTERIOR FIXTURES WITH DAMP OR WET LOCATION LABEL AS REQUIRED BY APPLICATION. PROVIDE CLASS 2 WIRING FOR ALL FIXTURES INDICATED TO HAVE 0-10V DIMMING. <p>ELECTRICAL IDENTIFICATION</p> <ul style="list-style-type: none"> PROVIDE ELECTRICAL IDENTIFICATION PRODUCTS FOR BURIED ELECTRICAL LINES, ARC-FLASH HAZARD LABELS (ANSI Z535.4), SOURCE OF SUPPLY LABELS, AVAILABLE FAULT CURRENT LABELS AND EMERGENCY OPERATING SIGNS TO EQUIPMENT INSTALLED AS PART OF THIS PROJECT. PROVIDE NYLON TYPE COVERPLATES THAT MATCH DEVICES. PROVIDE METAL COVERS FOR ALL DEVICES IN UNFINISHED SPACES PROVIDE LABELS ON COVERPLATES INDICATING SOURCE OF POWER (I.E. PANEL - CIRCUIT #). <p>SECURITY SYSTEMS (REFER TO SPECIFICATION 28 1600)</p> <ul style="list-style-type: none"> PROVIDE A COMPLETE RACEWAY SYSTEM INCLUDING BUT NOT LIMITED TO: RACEWAY, OUTLETS, COVERPLATES, BACKBOARDS, GROUNDING, AND MISCELLANEOUS ITEMS AS REQUIRED. PROVIDE (1) 3/4" EMT CONDUIT FROM EACH SECURITY DEVICE TO CABLE TRAY OR TERMINAL CABINET (WHICHEVER IS CLOSER). COMPLY WITH NEC AND RECOGNIZED INDUSTRY PRACTICES. PROVIDE NYLON PULL CORD IN ALL INSTALLED RACEWAY. PROVIDE (1) #6 BARE COPPER GROUND FROM EACH SECURITY SYSTEM TERMINAL BOARD TO THE SERVICE ENTRANCE GROUND. COIL SIX FEET OF CONDUCTOR AT EACH TERMINAL BOARD. <p>TELECOMMUNICATIONS (REFER TO SPECIFICATION 27 1500)</p> <ul style="list-style-type: none"> PROVIDE A COMPLETE RACEWAY SYSTEM INCLUDING BUT NOT LIMITED TO: RACEWAY, OUTLETS, COVERPLATES, BACKBOARDS, GROUNDING, AND MISCELLANEOUS ITEMS AS REQUIRED. PROVIDE (1) 3/4" EMT CONDUIT FROM EACH TELEPHONE AND DATA DEVICE TO CABLE TRAY OR TELECOM RACK (WHICHEVER IS CLOSER). COMPLY WITH NEC, BICSI AND RECOGNIZED INDUSTRY PRACTICES. PROVIDE NYLON PULL CORD IN ALL INSTALLED RACEWAY. PROVIDE (1) #6 BARE COPPER GROUND FROM EACH TELEPHONE/DATA SYSTEM TERMINAL BOARD TO THE SERVICE ENTRANCE GROUND. COIL SIX FEET OF CONDUCTOR AT EACH TERMINAL BOARD. <p>FIRE ALARM AND DETECTIONS SYSTEMS (REFER TO SPECIFICATION 28 3111)</p> <ul style="list-style-type: none"> EXPAND THE EXISTING ADDRESSABLE, ELECTRICALLY SUPERVISED FIRE ALARM SYSTEM WITH ALL APPLICABLE PROVISIONS OF THE CURRENT NFPA 72, NATIONAL FIRE ALARM CODE, IFC INTERNATIONAL FIRE CODE AND SHALL MEET ALL REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE A MINIMUM OF #14 AWG COPPER WIRING IN 3/4" CONDUIT. FIRE ALARM MC IS NOT ALLOWED.
<p>ELECTRICAL CONNECTION FOR EQUIPMENT</p> <ul style="list-style-type: none"> VERIFY EXACT LOAD AND LOCATION OF ALL EQUIPMENT BEFORE ROUGH-IN FOR EACH ELECTRICAL CONNECTION. PROVIDE COMPLETE ASSEMBLY OF MATERIAL, INCLUDING BUT NOT NECESSARILY LIMITED TO, RACEWAYS, CONDUCTORS, CORDS, CORD CAPS, PLUGS, WIRING DEVICES, PRESSURE CONNECTORS, TERMINALS (LUGS), ELECTRICAL INSULATING TAPE, HEAT-SHRINKABLE INSULATING TUBING, CABLE TIES, SOLDERLESS WIRE NUTS, AND OTHER ITEMS AND ACCESSORIES AS NEEDED TO COMPLETE SPICES, TERMINATIONS, AND CONNECTIONS AS REQUIRED. FOR PERMANENTLY INSTALLED FIXED EQUIPMENT, PROVIDE FLEXIBLE SEAL-TITE CONNECTION. FOR MOVABLE AND/OR PORTABLE EQUIPMENT, PROVIDE WIRING DEVICE, CORD CAP, AND MULTI-CONDUCTOR CORD. <p>GROUNDING</p> <ul style="list-style-type: none"> PROVIDE GROUNDING AND BONDING OF ALL ELECTRICAL AND COMMUNICATION APPARATUS, MACHINERY, APPLIANCES, BUILDING COMPONENTS, AND ITEMS REQUIRED BY THE NEC TO PROVIDE A PERMANENT, CONTINUOUS LOW IMPEDANCE, GROUNDING SYSTEM. PROVIDE AN NEC BONDING/GROUNDING CONDUCTOR IN ALL RACEWAYS USED FOR POWER DISTRIBUTION. <p>CONDUIT RACEWAYS</p> <ul style="list-style-type: none"> PROVIDE METAL CONDUIT, TUBING, AND FITTINGS OF TYPES, GRADES, SIZES, AND WEIGHTS (WALL THICKNESS) AS REQUIRED, WITH MINIMUM TRADE SIZE OF 3/4". INSTALL ELECTRICAL RACEWAY SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND APPLICABLE REQUIREMENTS OF NEC AND NECA "STANDARD OF INSTALLATION" IN ACCORDANCE WITH THE FOLLOWING: <ul style="list-style-type: none"> BRANCH CIRCUITS, AND INDIVIDUAL EQUIPMENT CIRCUITS RATED LESS THAN 100 AMPS, INSTALL IN ELECTRICAL METALLIC TUBING (EMT) WHERE LOCATED IN POURED WALLS, BELOW CONCRETE SLAB-ON-GRADE, OR IN EARTH FILL. INSTALL IN NON-METALLIC PLASTIC DUCT (SCHEDULE 40 PVC), ENCASE NON-METALLIC PLASTIC DUCT-1/4" AND LARGER IN CONCRETE. PROVIDE SURFACE RACEWAYS OF SIZES AND CHANNELS INDICATED. PROVIDE FITTINGS THAT MATCH AND MATE WITH RACEWAY. <p>CONDUCTORS AND CABLES</p> <ul style="list-style-type: none"> PROVIDE FACTORY-FABRICATED CONDUCTORS FOR SIZED, RATINGS, MATERIAL, AND TYPES INDICATED FOR EACH SERVICE. PROVIDE COPPER CONDUCTORS, WITH THINNY INSULATION. SIZE ALL CONDUCTORS IN ACCORDANCE WITH NEC, MINIMUM SIZE TO BE #12 AWG. PROVIDE STRANDED CONDUCTORS FOR #6 AWG AND LARGER. <p>ELECTRICAL BOXES AND FITTINGS</p> <ul style="list-style-type: none"> PROVIDE ONE PIECE GALVANIZED FLAT ROLLED SHEET STEEL INTERIOR OUTLET WIRING BOXES, CORROSION-RESISTANT CAST-METAL WEATHERPROOF OUTLET WIRING BOXES, CODE-GAGE SHEET STEEL JUNCTIONS AND PULL BOXES, CAST-IRON WATERPROOF ADJUSTABLE FLOOR BOXES, GALVANIZED CAST-METAL CONDUIT BODIES, CORROSION-RESISTANT PUNCHED-STEEL BOX KNOCKOUT CLOSURES, CONDUIT LOCKOUTS AND MALLEABLE STEEL CONDUIT BUSHINGS AND OFFSET CONNECTORS, AND ALL ACCESSORIES AS REQUIRED TO SUIT EACH RESPECTIVE LOCATION AND INSTALLATION. FASTEN BOXES RIGIDLY TO SUBSTRATES OR STRUCTURAL SURFACES TO WHICH ATTACHED, OR SOLIDLY EMBED ELECTRICAL BOXES IN CONCRETE OR MASONRY. USE BAR HANGERS FOR STUD CONSTRUCTION. 	<p>MARKS</p> <p>DATE:</p> <p>DESCRIPTION:</p>

LIGHT FIXTURE SCHEDULE

LIGHT FIXTURE ABBREVIATION SCHEDULE				PROJECT MANAGER: ERIC SKINKIS						
A.F.F.	ABOVE FINISH FLOOR	SCBA	STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT							
WALL@CLG	WALL MOUNT AT CORNER OF WALL AND CEILING	CFBA	CUSTOM FINISH AS SELECTED BY THE ARCHITECT							
CCBA	CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT	SFBA	STANDARD FINISH AS SELECTED BY THE ARCHITECT							
LIGHT FIXTURE GENERAL NOTES										
1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES AND, CONFIRM CEILING TYPES WITH LIGHT FIXTURE TRIMS. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING.										
2. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.										
3. REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, LED DRIVERS, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.										
4. CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.										
5. REFER TO LIGHTING PLANS FOR ALL LINEAR FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF LINEAR FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH.										
6. REFER TO LIGHTING PLANS FOR ALL UNDERCABINET FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF THE UNDERCABINET FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH OR TO FIT WITHIN THE MILLWORK. COORDINATE FIXTURE LAYOUT WITH MILLWORK SHOP DRAWINGS PRIOR TO LIGHTING SUBMITTALS.										
7. WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, NOTIFY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER.										
8. PRIOR APPROVALS ARE REQUIRED BEFORE BIDDING THE PROJECT AND SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.										
9. REFER TO SPECIFICATIONS 20 0500, 26 5100 & 26 5600 (16001, 16510 & 16551).										
10. VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM (IE: ARCHITECT, ENGINEER & LIGHTING CONSULTANT/DESIGNER) WILL NOT BE ALLOWED, REVIEWED OR APPROVED.										
TYPE	DESCRIPTION	MFR.	CATALOG #	VOLTS	TOTAL WATTS	LAMP TYPE	DELIVERED LUMENS	COLOR TEMP	CRI	
XA	UNIVERSAL EDGE-LIT EXIT SIGN, BRUSHED ALUMINUM HOUSING AND BLACK PLASTIC END-CAPS, WITH HIGH GRADE ACRYLIC PANEL, GREEN LETTERING, UNIVERSAL FACE, SINGLE, DOUBLE, UNIVERSAL MOUNTING, SURFACE, RECESSED, OR END-MOUNT, FIELD VERIFY FACE COUNTS AND MOUNTING METHODS, AC ONLY.	EMERGH-LITE	PAG6	277 V	5 VA	LED				

CONSTRUCTION DOCUMENTS

design west architects
 265 SOUTH 300 WEST
 795 NORTH 400 WEST
 LOGAN, UT 84321
 SALT LAKE CITY, UT 84103

JORDAN VALLEY SCHOOL IMPROVEMENTS
 7501 S 1000 E, MIDVALE, UT 84047
 CANYONS SCHOOL DISTRICT

MARK:	
DATE:	
DESCRIPTION:	

PROJECT #: 124011
 DRAWN BY: BNA
 CHECKED BY: BNA
 ISSUED: 05.23.2024



ELECTRICAL SPECIFICATIONS
E002

DIAGRAM NOTE:
 1. DEVICES SHOWN DIAGRAMMATICALLY ONLY.
 2. PROVIDE 2" CONDUIT(S) UP TO ACCESSIBLE CEILING SPACE FROM THE ACCESS CONTROL HEAD-END PANEL(S). CONDUIT FILL RATIO IS NOT TO EXCEED 40%.

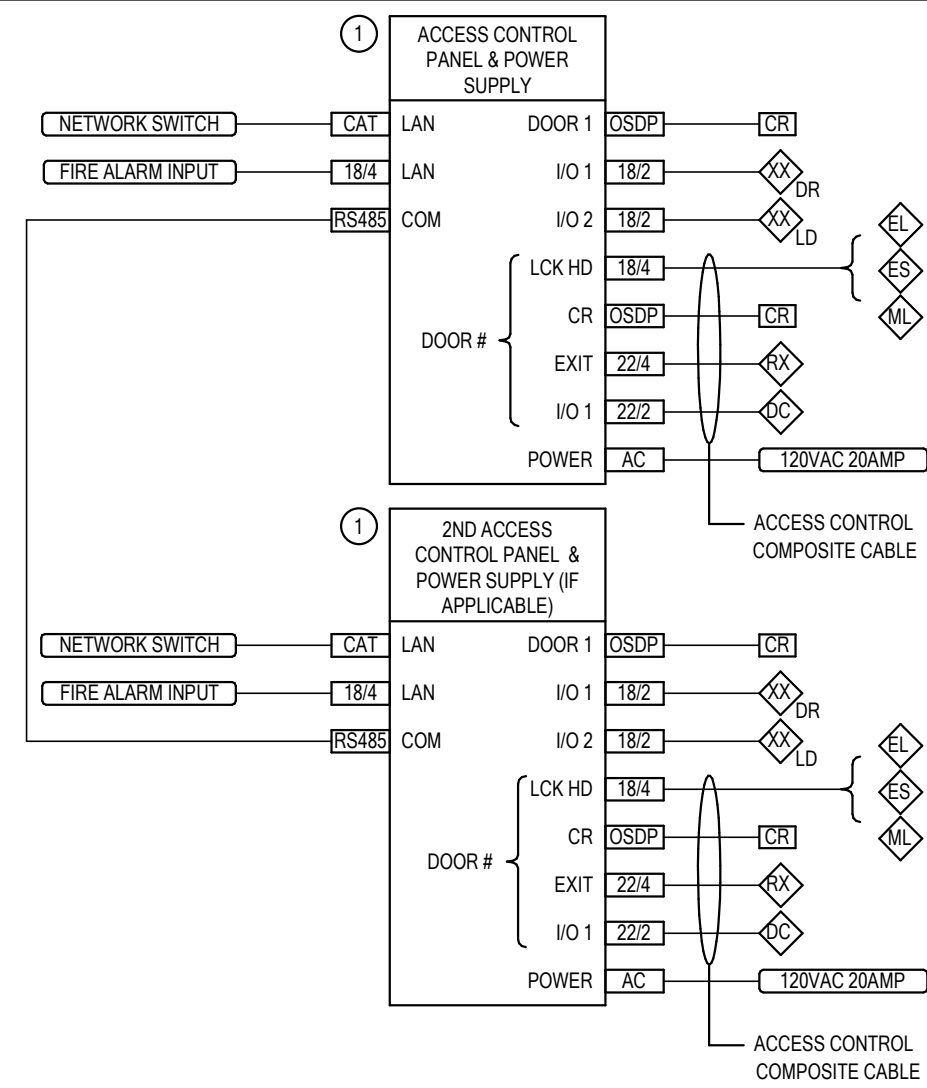


DIAGRAM EY002 TYPICAL ACCESS CONTROL - ONE LINE
 NTS

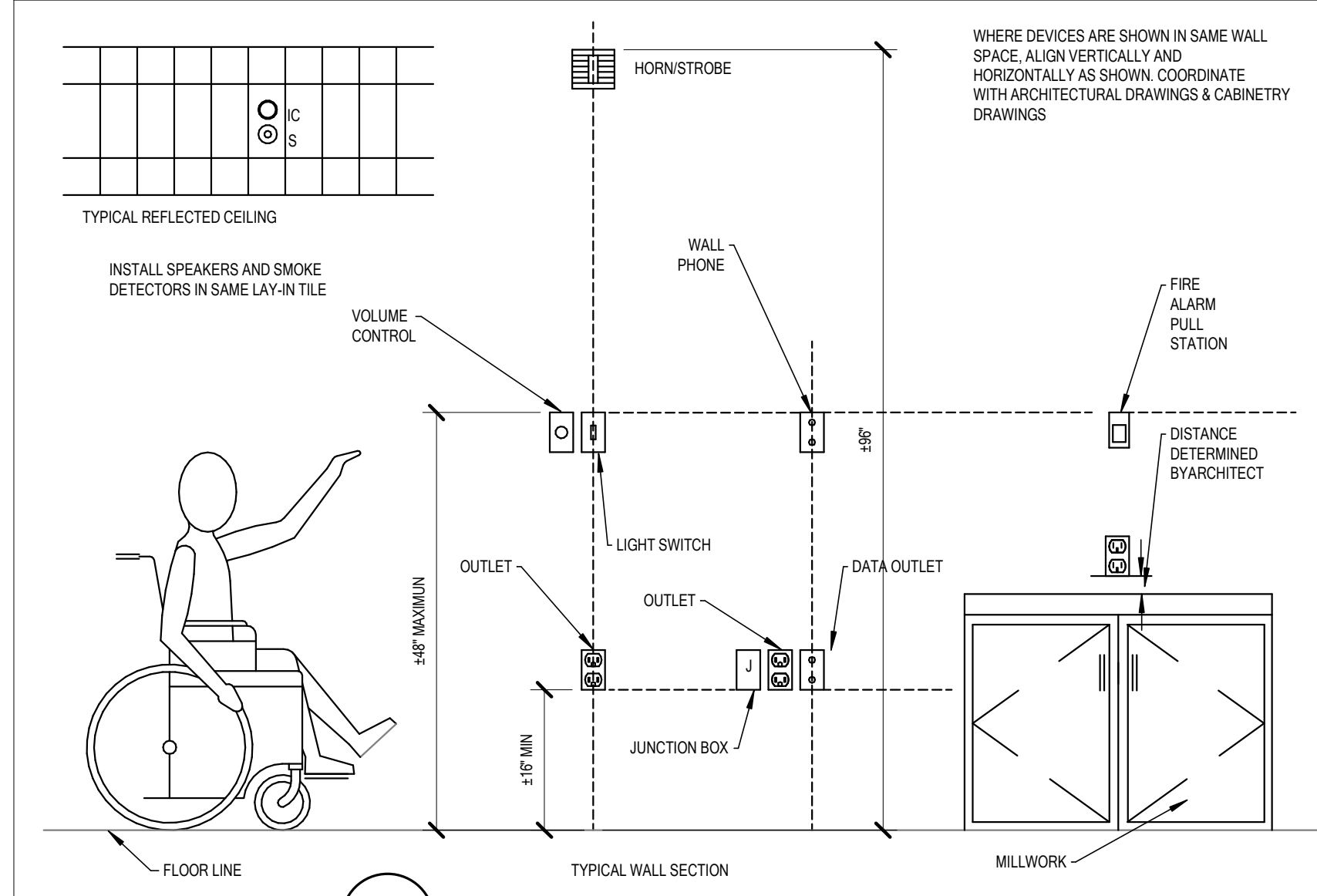


DIAGRAM R001 DEVICE MOUNTING HEIGHTS
 NTS

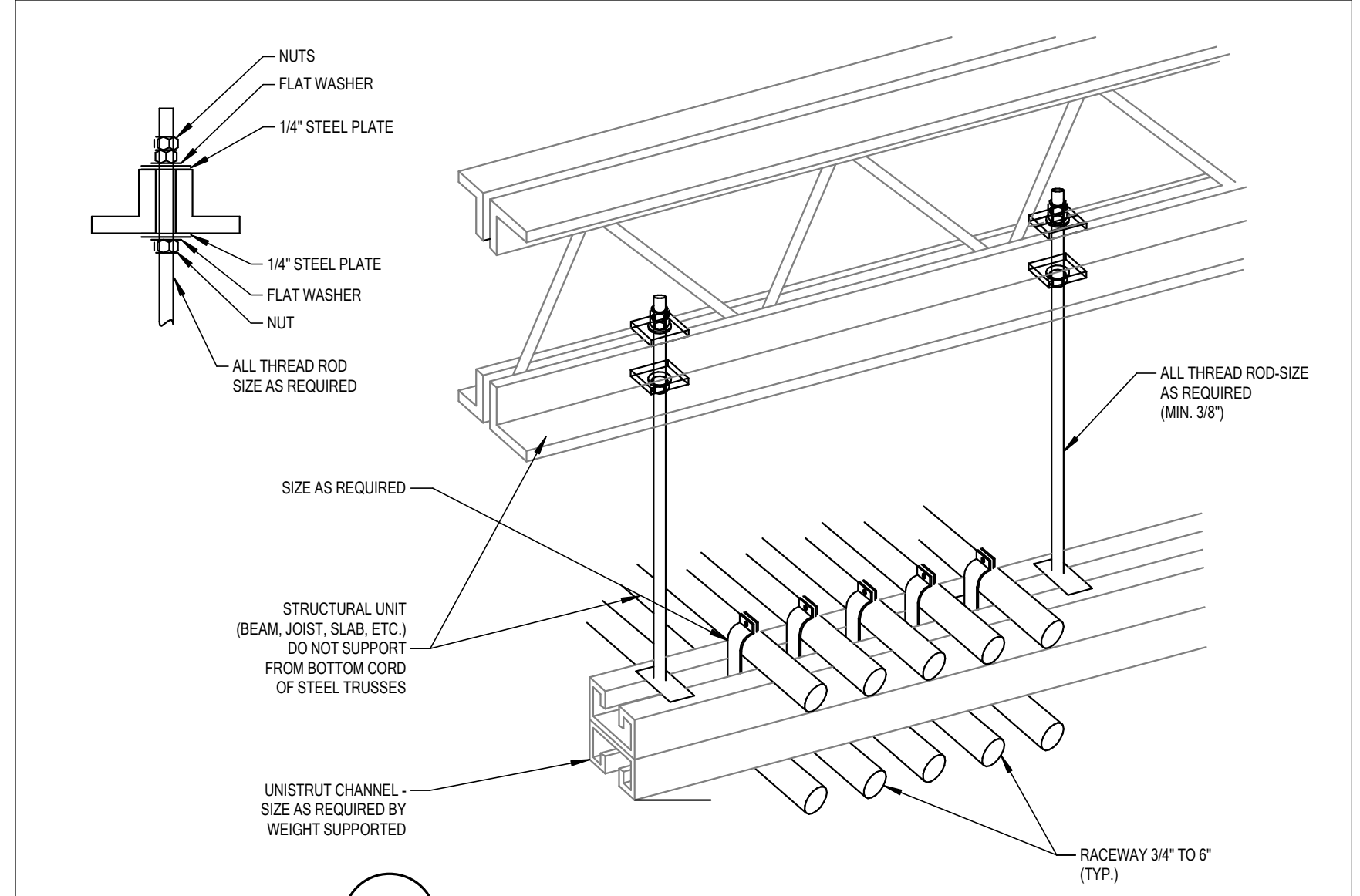


DIAGRAM H001 TYPICAL TRAPEZE CONDUIT RACK
 NTS

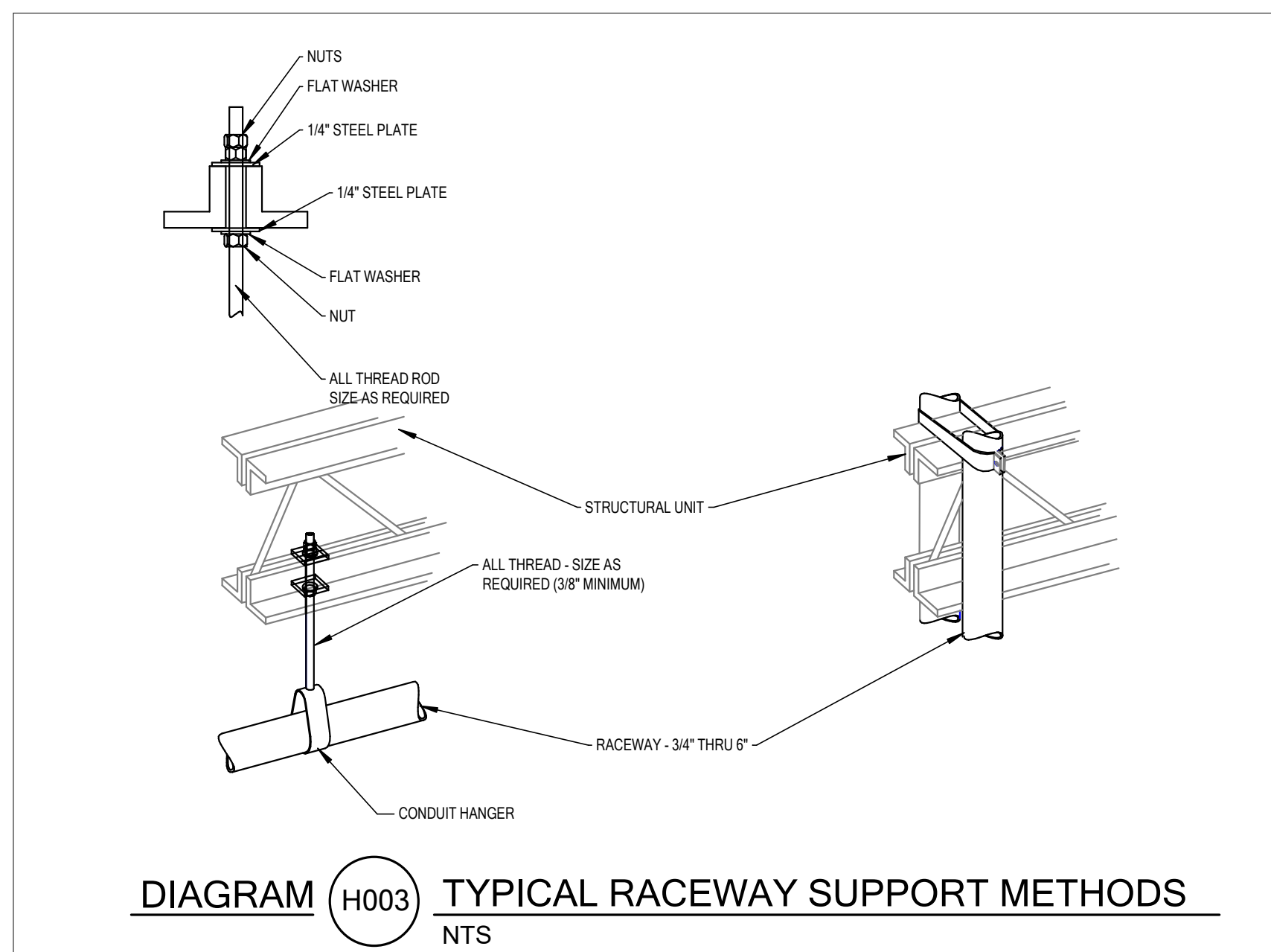


DIAGRAM H003 TYPICAL RACEWAY SUPPORT METHODS
 NTS

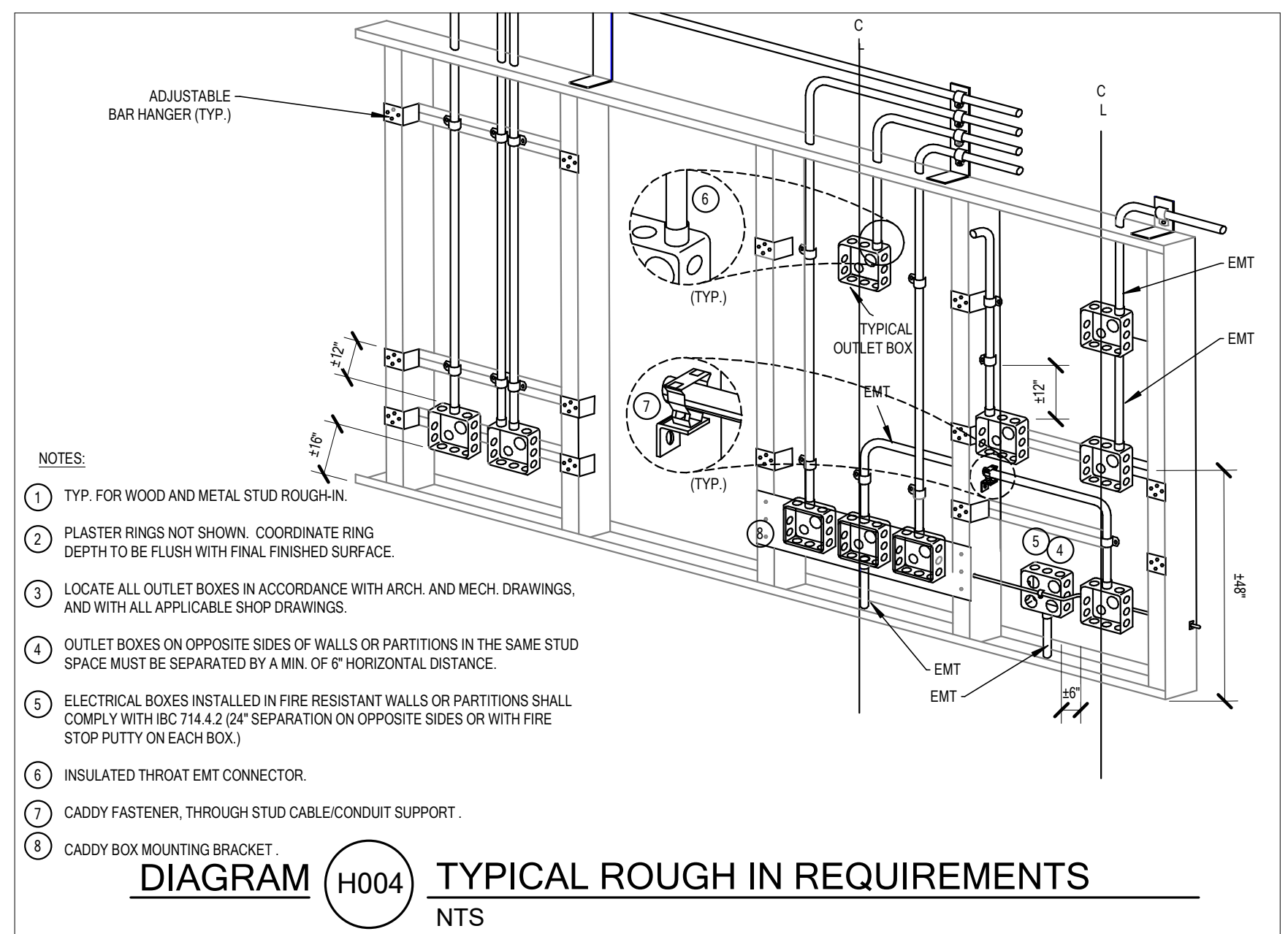


DIAGRAM H004 TYPICAL ROUGH IN REQUIREMENTS
 NTS

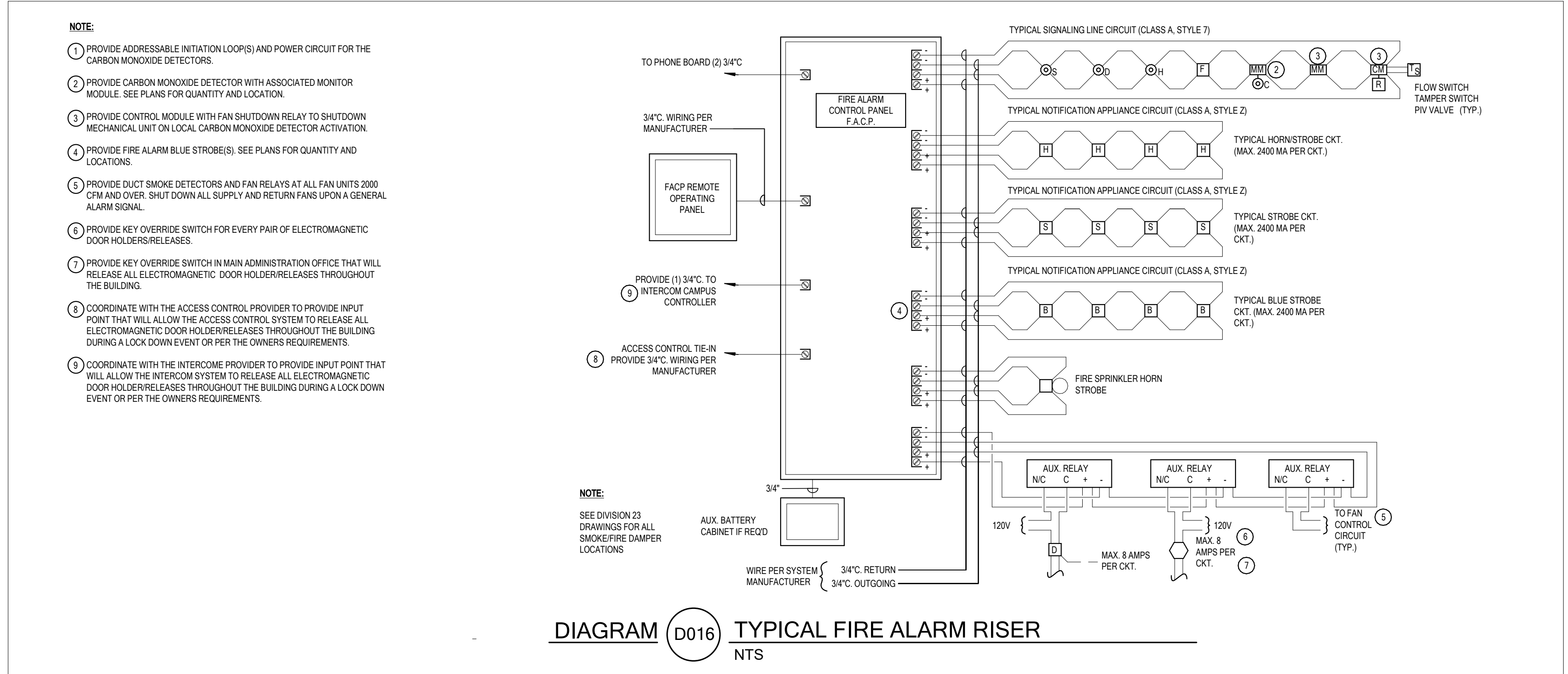


DIAGRAM D016 TYPICAL FIRE ALARM RISER
 NTS

1/23/2024 11:55:45 AM Autodesk Docs: 7124011 - CDD - Jordan Valley School Improvements 24159 - Jordan Valley School Improvements ELEC 02.rvt

CONSTRUCTION DOCUMENTS

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MARK	DATE	DESCRIPTION

PROJECT #: 124011
 DRAWN BY: BNA
 CHECKED BY: BNA
 ISSUED: 05.23.2024



ELECTRICAL DIAGRAMS
E201

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