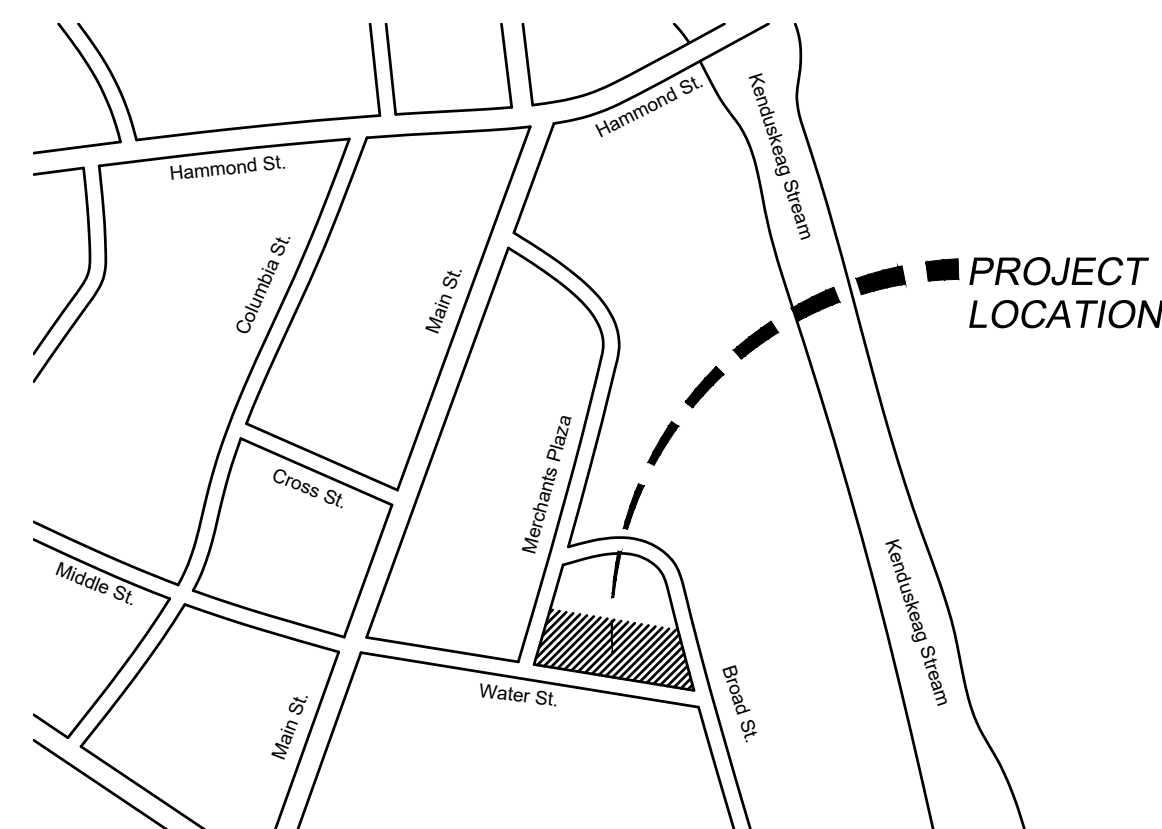
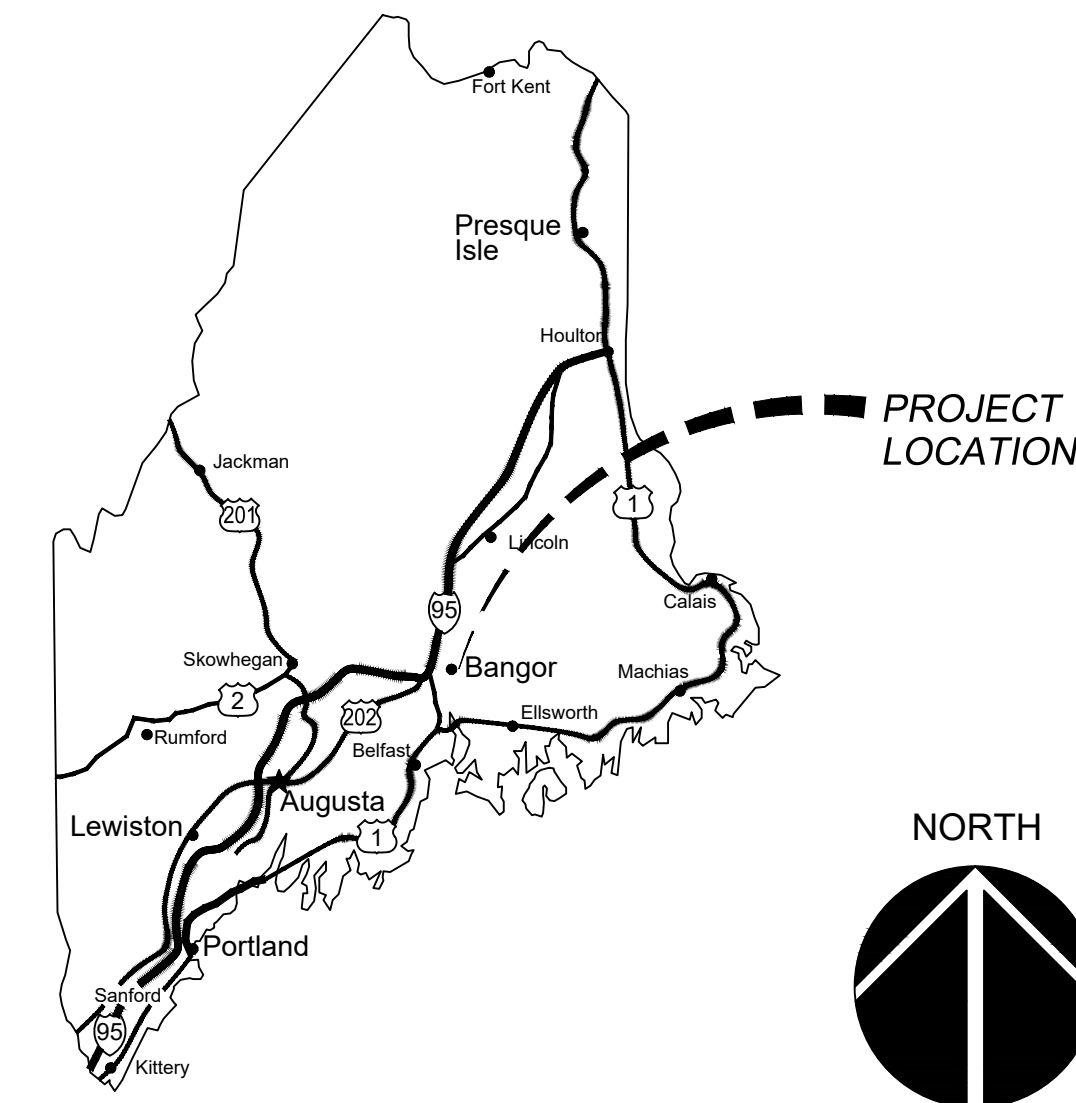


CITY OF BANGOR

BANGOR TRANSIT CENTER

PICKERING SQUARE, BANGOR ME, 04401

PROJECT NO. 2020115
May 12, 2021



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- S502 - TYPICAL DETAILS
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MECHANICAL

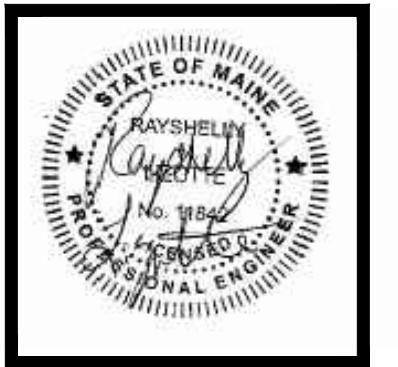
- H100 - HVAC PIPING PLAN
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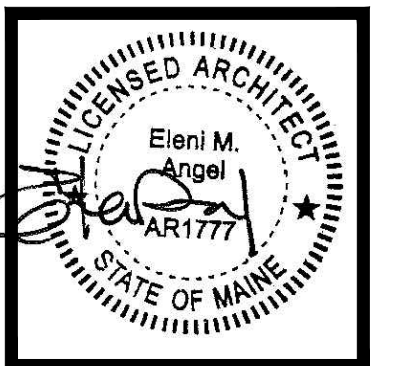
- E001 - SYMBOLS LIST & FIXTURE SCHEDULE
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PLUMBING

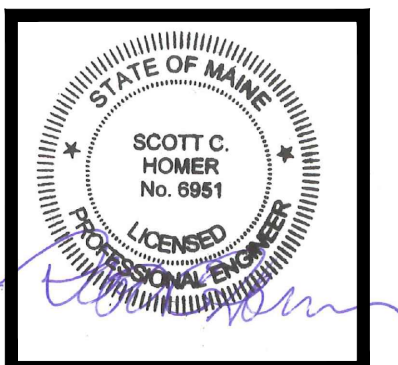
- P100 - PLUMBING WASTE & VENT PLAN
- P101 - PLUMBING HOT & COLD PLAN
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CIVIL



ARCHITECTURAL



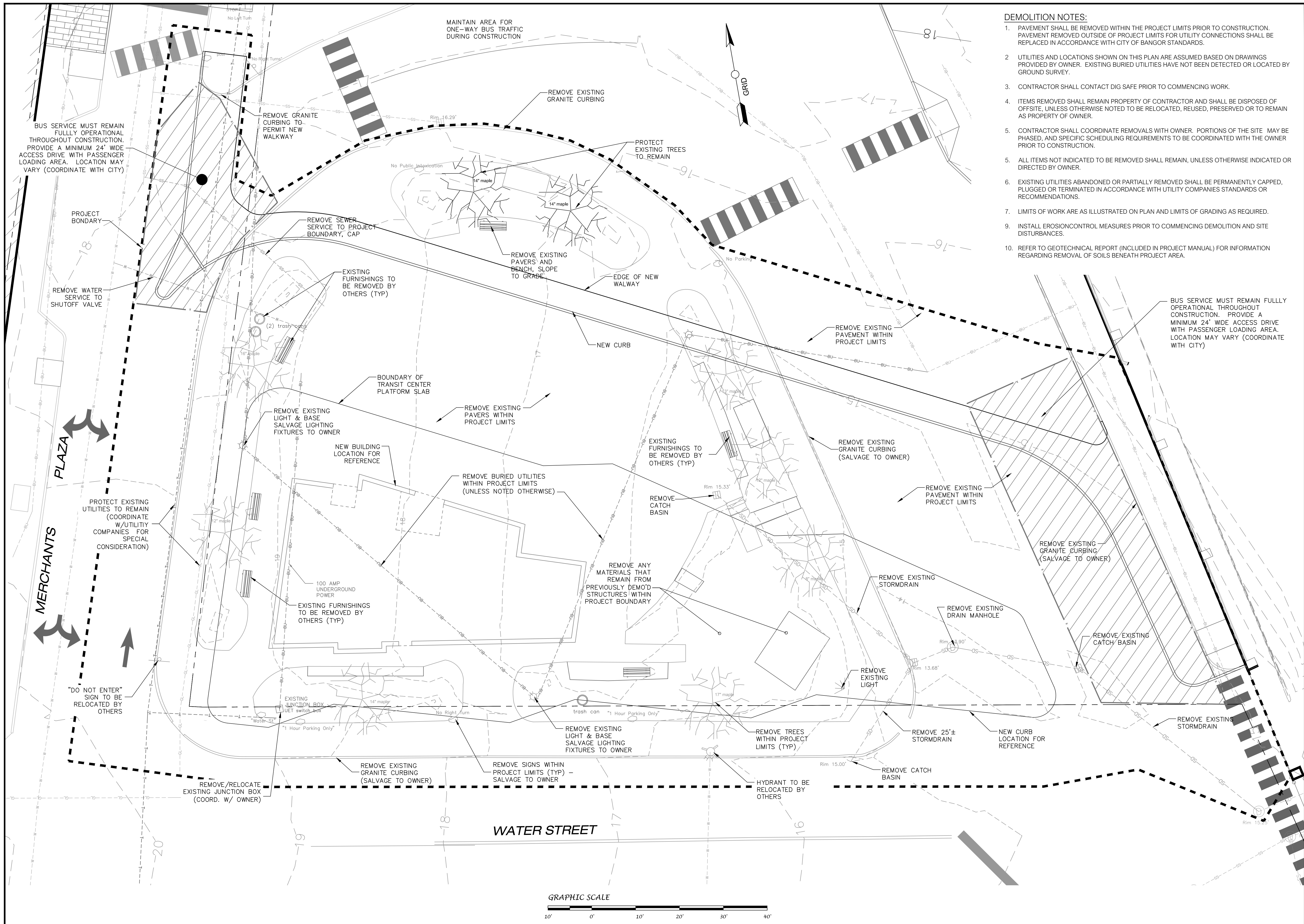
STRUCTURAL

"STATEMENT AND NOTICE OF COOPERATION"
RELEASE OF THESE PLANS CONTEMPLATES FURTHER COOPERATION AMONG THE OWNER, HIS CONTRACTOR AND THE ARCHITECT. DESIGN AND CONSTRUCTION ARE COMPLEX. ALTHOUGH THE ARCHITECT AND HIS CONSULTANTS HAVE PERFORMED THEIR SERVICES WITH DUE CARE AND DILIGENCE, THEY CANNOT GUARANTEE PERFECTION. COMMUNICATION IS IMPERFECT, AND EVERY CONTINGENCY CANNOT BE ANTICIPATED. ANY AMBIGUITY OR DISCREPANCY DISCOVERED BY THE USE OF THESE PLANS NEED BE REPORTED IMMEDIATELY TO THE ARCHITECT. FAILURE TO NOTIFY THE ARCHITECT COMPOUNDS MISUNDERSTANDING AND INCREASES CONSTRUCTION COSTS. A FAILURE TO COOPERATE BY A SIMPLE NOTICE TO THE ARCHITECT RELIEVES THE ARCHITECT FROM RESPONSIBILITY FOR ALL CONSEQUENCES. CHANGES MADE FROM THE PLANS WITHOUT CONSENT OF THE ARCHITECT ARE UNAUTHORIZED, AND RELIEVE THE ARCHITECT OF RESPONSIBILITY FOR ALL CONSEQUENCES ARISING OUT OF SUCH CHANGES. IN MANY CASES SUCH RELIEF OF RESPONSIBILITY INCLUDES RELIEF OF OWNER RESPONSIBILITY. THE CONTRACTOR AND HIS SUBCONTRACTORS NEED BE DILIGENT IN THESE MATTERS AT ALL TIMES PRIOR TO AND DURING CONSTRUCTION. REFER TO CONTRACT GENERAL AND SUPPLEMENTAL CONDITION AND SPECIFICATIONS (PROJECT MANUAL) FOR ADDITIONAL DETAILS AND CONDITIONS.

ARTIFEX
architects & engineers

Phone: 207-974-3028

128 Broadway, Bangor, Maine 04401



DEMOLITION NOTES:

1. PAVEMENT SHALL BE REMOVED WITHIN THE PROJECT LIMITS PRIOR TO CONSTRUCTION. PAVEMENT REMOVED OUTSIDE OF PROJECT LIMITS FOR UTILITY CONNECTIONS SHALL BE REPLACED IN ACCORDANCE WITH CITY OF BANGOR STANDARDS.
2. UTILITIES AND LOCATIONS SHOWN ON THIS PLAN ARE ASSUMED BASED ON DRAWINGS PROVIDED BY OWNER. EXISTING BURIED UTILITIES HAVE NOT BEEN DETECTED OR LOCATED BY GROUND SURVEY.
3. CONTRACTOR SHALL CONTACT DIG SAFE PRIOR TO COMMENCING WORK.
4. ITEMS REMOVED SHALL REMAIN PROPERTY OF CONTRACTOR AND SHALL BE DISPOSED OF OFFSITE, UNLESS OTHERWISE NOTED TO BE RELOCATED, REUSED, PRESERVED OR TO REMAIN AS PROPERTY OF OWNER.
5. CONTRACTOR SHALL COORDINATE REMOVALS WITH OWNER. PORTIONS OF THE SITE MAY BE PHASED, AND SPECIFIC SCHEDULING REQUIREMENTS TO BE COORDINATED WITH THE OWNER PRIOR TO CONSTRUCTION.
5. ALL ITEMS NOT INDICATED TO BE REMOVED SHALL REMAIN, UNLESS OTHERWISE INDICATED OR DIRECTED BY OWNER.
6. EXISTING UTILITIES ABANDONED OR PARTIALLY REMOVED SHALL BE PERMANENTLY CAPPED, PLUGGED OR TERMINATED IN ACCORDANCE WITH UTILITY COMPANIES STANDARDS OR RECOMMENDATIONS.
7. LIMITS OF WORK ARE AS ILLUSTRATED ON PLAN AND LIMITS OF GRADING AS REQUIRED.
9. INSTALL EROSION CONTROL MEASURES PRIOR TO COMMENCING DEMOLITION AND SITE DISTURBANCES.
10. REFER TO GEOTECHNICAL REPORT (INCLUDED IN PROJECT MANUAL) FOR INFORMATION REGARDING REMOVAL OF SOILS BENEATH PROJECT AREA.



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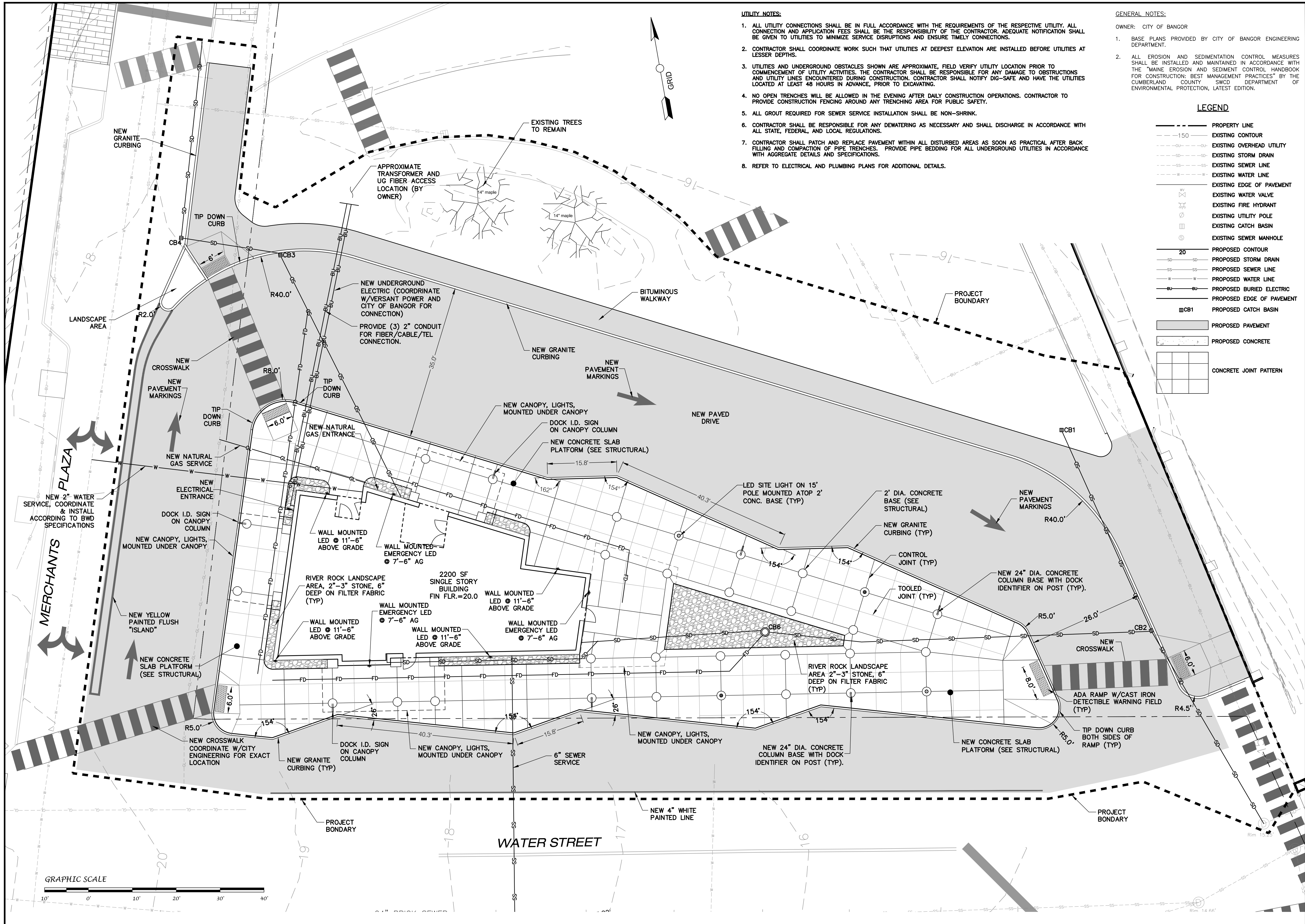
SITE DEMOLITION PLAN

PROJ. NUMBER:	2020115
REV.	DATE
DRAWN BY:	RVL
DESCRIPTION	

**CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME**

DATE:
MAY 12, 2021

C100



UTILITY NOTES:

1. ALL UTILITY CONNECTIONS SHALL BE IN FULL ACCORDANCE WITH THE REQUIREMENTS OF THE RESPECTIVE UTILITY. ALL CONNECTION AND APPLICATION FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ADEQUATE NOTIFICATION SHALL BE GIVEN TO UTILITIES TO MINIMIZE SERVICE DISRUPTIONS AND ENSURE TIMELY CONNECTIONS.
2. CONTRACTOR SHALL COORDINATE WORK SUCH THAT UTILITIES AT DEEPEST ELEVATION ARE INSTALLED BEFORE UTILITIES AT LESSER DEPTHS.
3. UTILITIES AND UNDERGROUND OBSTACLES SHOWN ARE APPROXIMATE. FIELD VERIFY UTILITY LOCATION PRIOR TO COMMENCEMENT OF UTILITY ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO OBSTRUCTIONS AND UTILITY LINES ENCOUNTERED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY DIG-SAFE AND HAVE THE UTILITIES LOCATED AT LEAST 48 HOURS IN ADVANCE, PRIOR TO EXCAVATING.
4. NO OPEN TRENCHES WILL BE ALLOWED IN THE EVENING AFTER DAILY CONSTRUCTION OPERATIONS. CONTRACTOR TO PROVIDE CONSTRUCTION FENCING AROUND ANY TRENCHING AREA FOR PUBLIC SAFETY.
5. ALL GROUT REQUIRED FOR SEWER SERVICE INSTALLATION SHALL BE NON-SHRINK.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEWATERING AS NECESSARY AND SHALL DISCHARGE IN ACCORDANCE WITH ALL STATE, FEDERAL, AND LOCAL REGULATIONS.
7. CONTRACTOR SHALL PATCH AND REPLACE PAVEMENT WITHIN ALL DISTURBED AREAS AS SOON AS PRACTICAL AFTER BACK FILLING AND COMPACTION OF PIPE TRENCHES. PROVIDE PIPE BEDDING FOR ALL UNDERGROUND UTILITIES IN ACCORDANCE WITH AGGREGATE DETAILS AND SPECIFICATIONS.
8. REFER TO ELECTRICAL AND PLUMBING PLANS FOR ADDITIONAL DETAILS.

GENERAL NOTES:

- OWNER: CITY OF BANGOR
1. BASE PLANS PROVIDED BY CITY OF BANGOR ENGINEERING DEPARTMENT.
 2. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE "MAINE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES" BY THE CUMBERLAND COUNTY SWCD DEPARTMENT OF ENVIRONMENTAL PROTECTION, LATEST EDITION.

LEGEND

	PROPERTY LINE
	EXISTING CONTOUR
	EXISTING OVERHEAD UTILITY
	EXISTING STORM DRAIN
	EXISTING SEWER LINE
	EXISTING WATER LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING UTILITY POLE
	EXISTING CATCH BASIN
	EXISTING SEWER MANHOLE
	PROPOSED CONTOUR
	PROPOSED STORM DRAIN
	PROPOSED SEWER LINE
	PROPOSED WATER LINE
	PROPOSED BURIED ELECTRIC
	PROPOSED EDGE OF PAVEMENT
	PROPOSED CATCH BASIN
	PROPOSED PAVEMENT
	PROPOSED CONCRETE
	CONCRETE JOINT PATTERN



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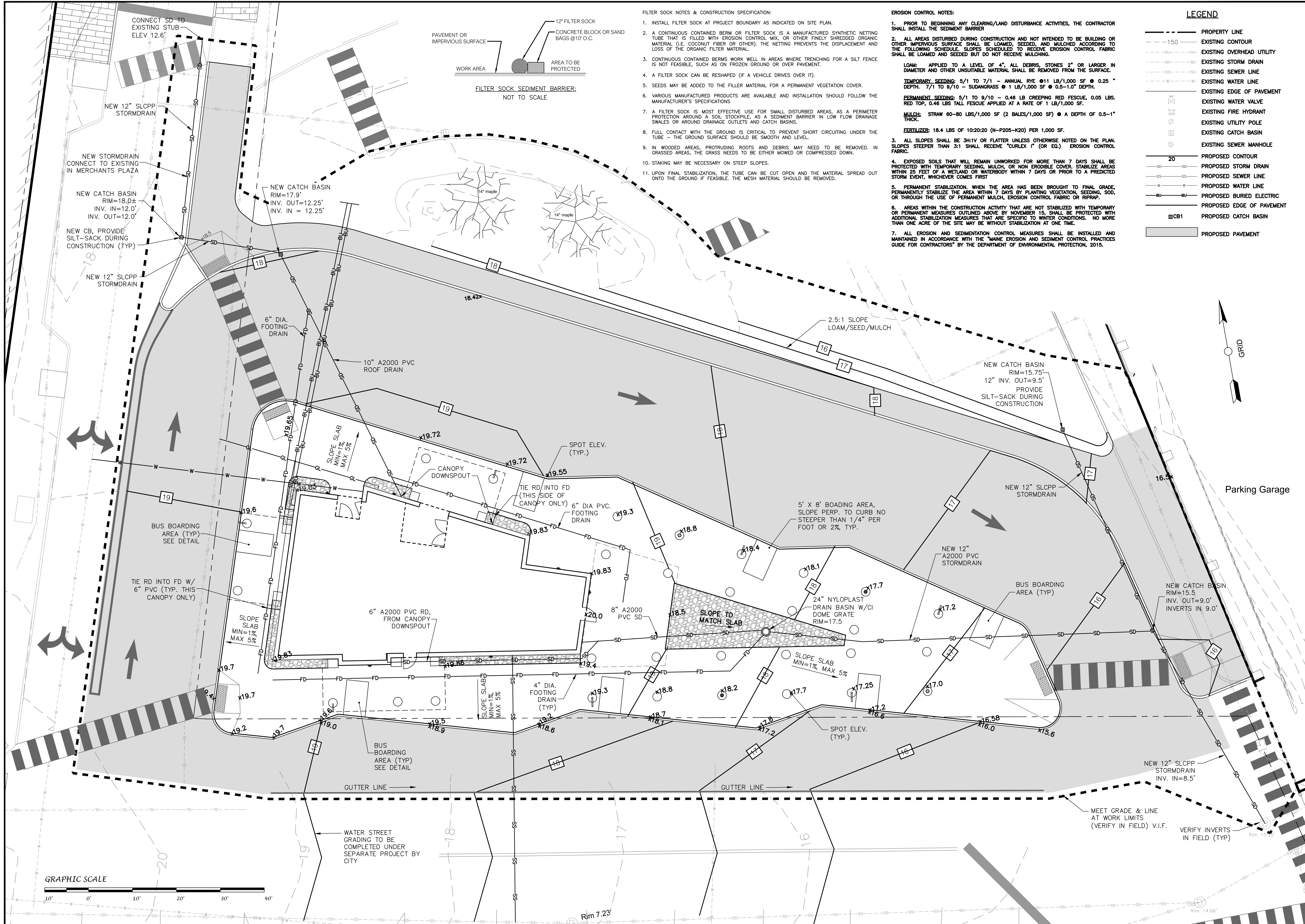
SITE PLAN

PROJ. NUMBER:	2020115
REV.	DATE
DRAWN BY:	RVL
DESCRIPTION	

**CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME**

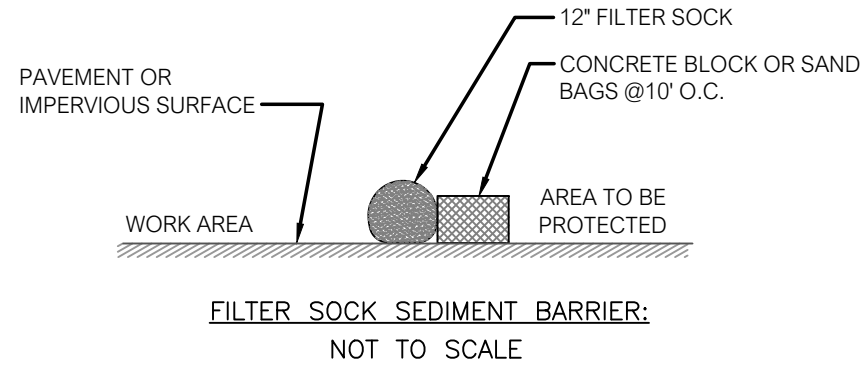
DATE:
MAY 12, 2021

C200



FILTER SOCK NOTES & CONSTRUCTION SPECIFICATION:

1. INSTALL FILTER SOCK AT PROJECT BOUNDARY AS INDICATED ON SITE PLAN.
2. A CONTINUOUS CONTAINED BERM OR FILTER SOCK IS A MANUFACTURED SYNTHETIC NETTING TUBE THAT IS FILLED WITH EROSION CONTROL MIX, OR OTHER FINELY SHREDDED ORGANIC MATERIAL (I.E. COCONUT FIBER OR OTHER). THE NETTING PREVENTS THE DISPLACEMENT AND LOSS OF THE ORGANIC FILTER MATERIAL.
3. CONTINUOUS CONTAINED BERMS WORK WELL IN AREAS WHERE TRENCHING FOR A SILT FENCE IS NOT FEASIBLE, SUCH AS ON FROZEN GROUND OR OVER PAVEMENT.
4. A FILTER SOCK CAN BE RESHAPED (IF A VEHICLE DRIVES OVER IT).
5. SEEDS MAY BE ADDED TO THE FILLER MATERIAL FOR A PERMANENT VEGETATION COVER.
6. VARIOUS MANUFACTURED PRODUCTS ARE AVAILABLE AND INSTALLATION SHOULD FOLLOW THE MANUFACTURER'S SPECIFICATIONS.
7. A FILTER SOCK IS MOST EFFECTIVE USE FOR SMALL DISTURBED AREAS, AS A PERIMETER PROTECTION AROUND A SOIL STOCKPILE, AS A SEDIMENT BARRIER IN LOW FLOW DRAINAGE SWALES OR AROUND DRAINAGE OUTLETS AND CATCH BASINS.
8. FULL CONTACT WITH THE GROUND IS CRITICAL TO PREVENT SHORT CIRCUITING UNDER THE TUBE - THE GROUND SURFACE SHOULD BE SMOOTH AND LEVEL.
9. IN WOODED AREAS, PROTRUDING ROOTS AND DEBRIS MAY NEED TO BE REMOVED. IN GRASSED AREAS, THE GRASS NEEDS TO BE EITHER MOWED OR COMPRESSED DOWN.
10. STAKING MAY BE NECESSARY ON STEEP SLOPES.
11. UPON FINAL STABILIZATION, THE TUBE CAN BE CUT OPEN AND THE MATERIAL SPREAD OUT ONTO THE GROUND IF FEASIBLE. THE MESH MATERIAL SHOULD BE REMOVED.



EROSION CONTROL NOTES:

1. PRIOR TO BEGINNING ANY CLEARING/LAND DISTURBANCE ACTIVITIES, THE CONTRACTOR SHALL INSTALL THE SEDIMENT BARRIER.
2. ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT INTENDED TO BE BUILDING OR OTHER IMPERVIOUS SURFACE SHALL BE LOAMED, SEEDED, AND MULCHED ACCORDING TO THE FOLLOWING SCHEDULE. SLOPES SCHEDULED TO RECEIVE EROSION CONTROL FABRIC SHALL BE LOAMED AND SEEDED BUT DO NOT RECEIVE MULCHING.
LOAM: APPLIED TO A LEVEL OF 4". ALL DEBRIS, STONES 2" OR LARGER IN DIAMETER AND OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SURFACE.
TEMPORARY SEEDING: 5/1 TO 7/1 - ANNUAL RYE @ 11 LB/1,000 SF @ 0.25" DEPTH. 7/1 TO 9/10 - SUDANAGRASS @ 1 LB/1,000 SF @ 0.5-1.0" DEPTH.
PERMANENT SEEDING: 5/1 TO 9/10 - 0.48 LB CREEPING RED FESCUE, 0.05 LBS. RED TOP, 0.48 LBS TALL FESCUE APPLIED AT A RATE OF 1 LB/1,000 SF.
MULCH: STRAW 60-80 LBS/1,000 SF (2 BALES/1,000 SF) @ A DEPTH OF 0.5-1" THICK.
FERTILIZER: 18.4 LBS OF 10-20-20 (N-P205-K20) PER 1,000 SF.
3. ALL SLOPES SHALL BE 3H:1V OR FLATTER UNLESS OTHERWISE NOTED ON THE PLAN. SLOPES STEEPER THAN 3:1 SHALL RECEIVE "CURLX 1" (OR EQ.) EROSION CONTROL FABRIC.
4. EXPOSED SOILS THAT WILL REMAIN UNWORKED FOR MORE THAN 7 DAYS SHALL BE PROTECTED WITH TEMPORARY SEEDING, MULCH, OR NON ERODIBLE COVER. STABILIZE AREAS WITHIN 25 FEET OF A WETLAND OR WATERBODY WITHIN 7 DAYS OR PRIOR TO A PREDICTED STORM EVENT, WHICHEVER COMES FIRST.
5. PERMANENT STABILIZATION, WHEN THE AREA HAS BEEN BROUGHT TO FINAL GRADE, PERMANENTLY STABILIZE THE AREA WITHIN 7 DAYS BY PLANTING VEGETATION, SEEDING, SOD, OR THROUGH THE USE OF PERMANENT MULCH, EROSION CONTROL FABRIC OR RIPRAP.
6. AREAS WITHIN THE CONSTRUCTION ACTIVITY THAT ARE NOT STABILIZED WITH TEMPORARY OR PERMANENT MEASURES OUTLINED ABOVE BY NOVEMBER 15, SHALL BE PROTECTED WITH ADDITIONAL STABILIZATION MEASURES THAT ARE SPECIFIC TO WINTER CONDITIONS. NO MORE THAN ONE ACRE OF THE SITE MAY BE WITHOUT STABILIZATION AT ONE TIME.
7. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE "MAINE EROSION AND SEDIMENT CONTROL PRACTICES GUIDE FOR CONTRACTORS" BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, 2015.

LEGEND

- PROPERTY LINE
- - - -150- EXISTING OVERHEAD UTILITY
- - - -SD- EXISTING STORM DRAIN
- - - -SS- EXISTING SEWER LINE
- - - -W- EXISTING WATER LINE
- - - -E- EXISTING EDGE OF PAVEMENT
- - - -V- EXISTING WATER VALVE
- - - -F- EXISTING FIRE HYDRANT
- - - -U- EXISTING UTILITY POLE
- - - -CB- EXISTING CATCH BASIN
- - - -SM- EXISTING SEWER MANHOLE
- 20 --- PROPOSED CONTOUR
- - - -SD- PROPOSED STORM DRAIN
- - - -SS- PROPOSED SEWER LINE
- - - -W- PROPOSED WATER LINE
- - - -E- PROPOSED BURIED ELECTRIC
- - - -BU- PROPOSED EDGE OF PAVEMENT
- ▣ CB1 PROPOSED CATCH BASIN
- ▨ PROPOSED PAVEMENT



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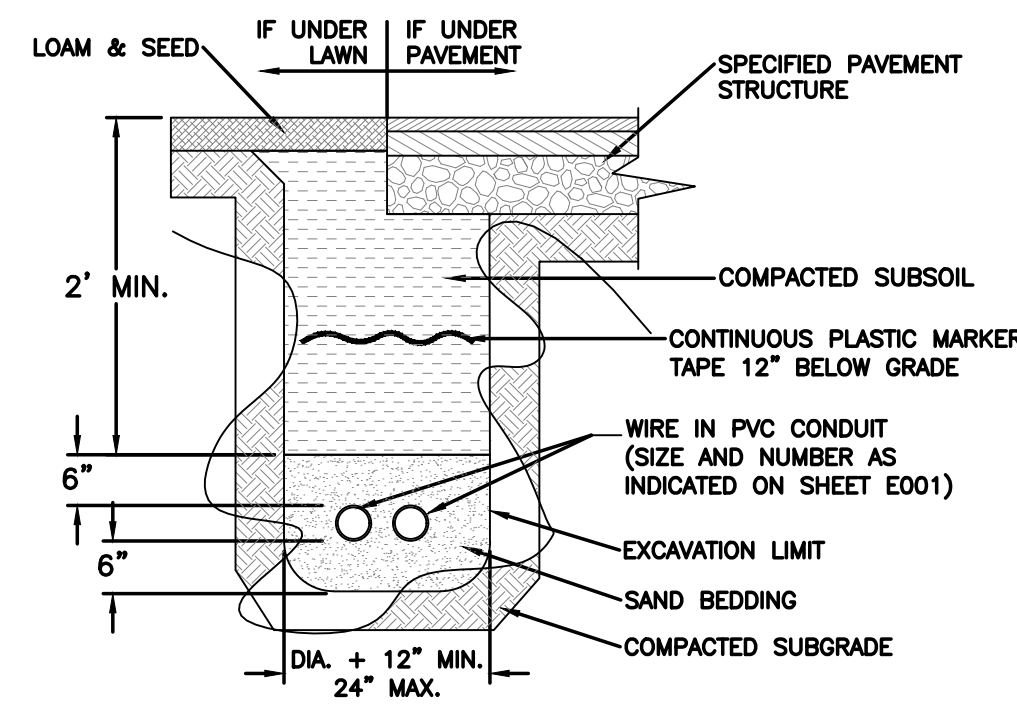
GRADING & EROSION CONTROL PLAN

PROJ. NUMBER:	2020115	DRAWN BY:	RVL
REV.		DATE	
		DESCRIPTION	

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BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME**

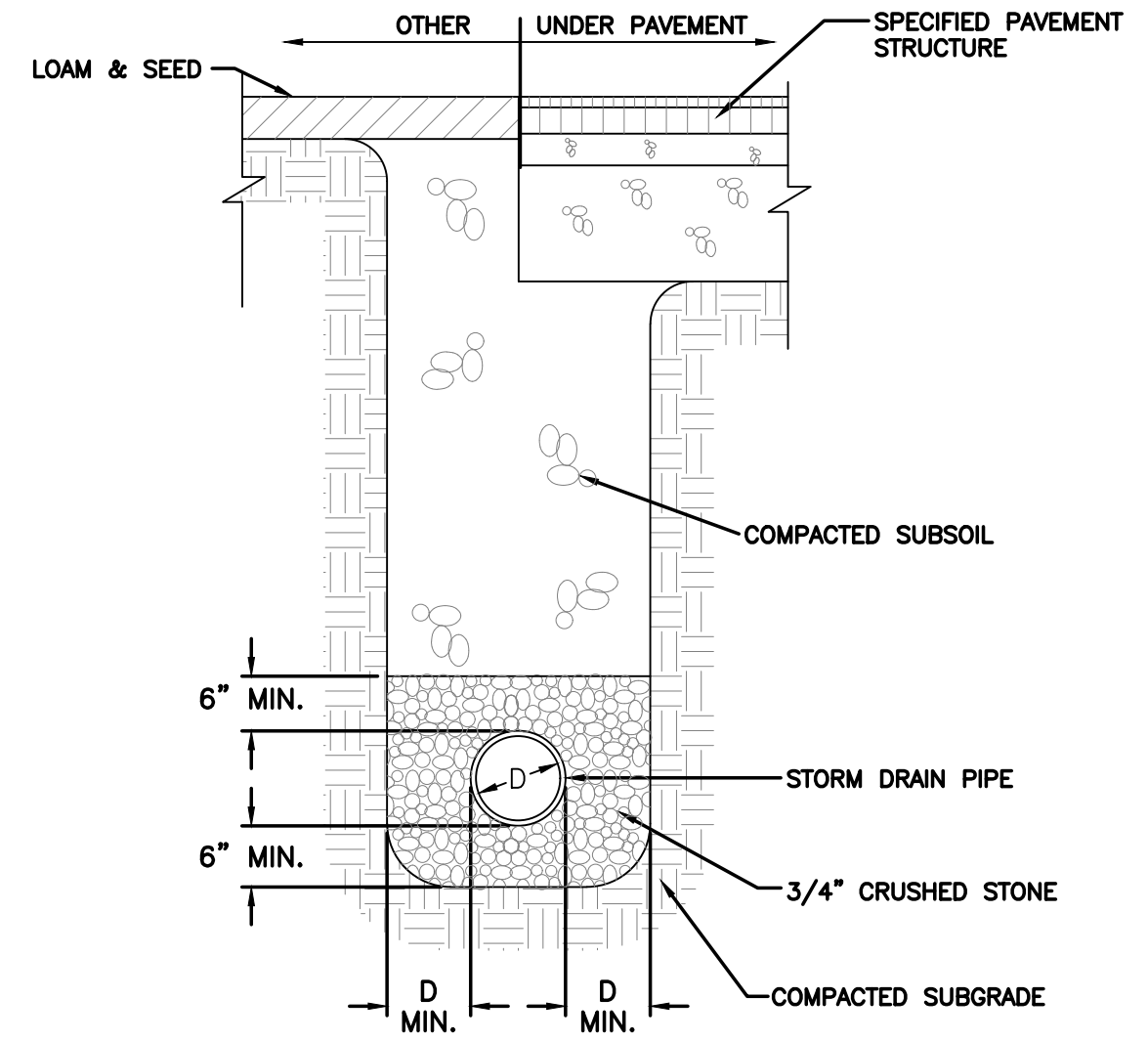
DATE:
MAY 12, 2021

C201

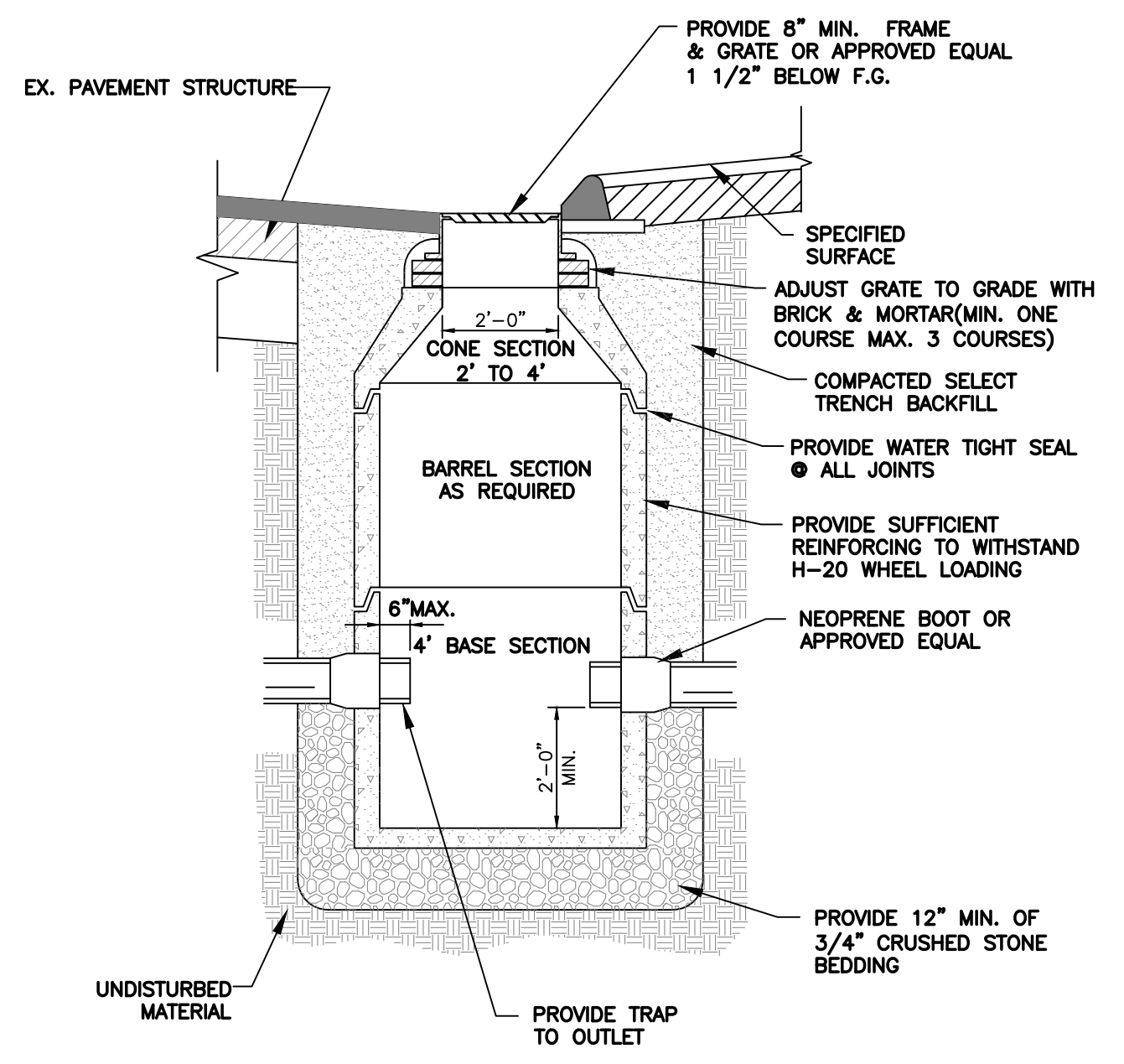


- NOTES:**
1. USE SCH. 80 PVC PIPE UNDER AREAS TO BE PAVED, ELSEWHERE USE SCH. 40 PVC PIPE.
 2. PROVIDE PULL WIRE IN ALL CONDUITS.
 3. CONCRETE ENCASE AS MAY BE REQUIRED.

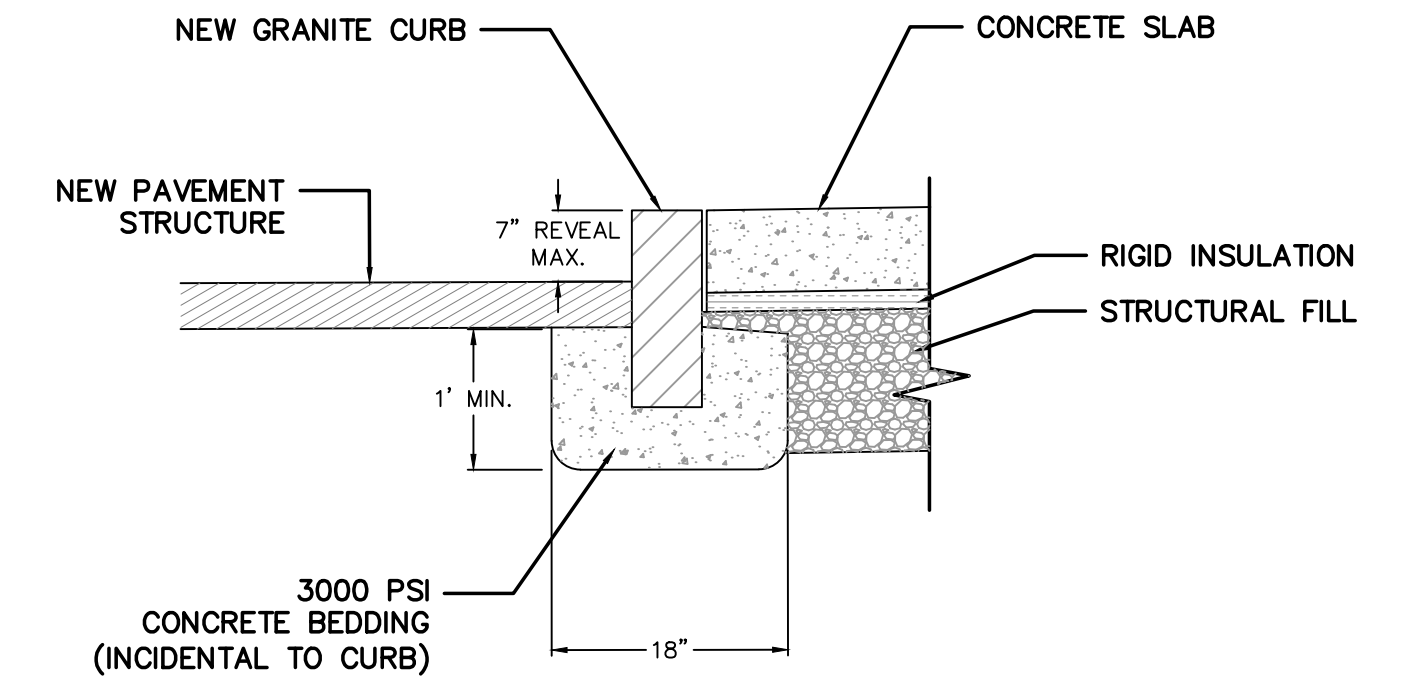
1 ELEC. UTILITY TRENCH
C500 NOT TO SCALE



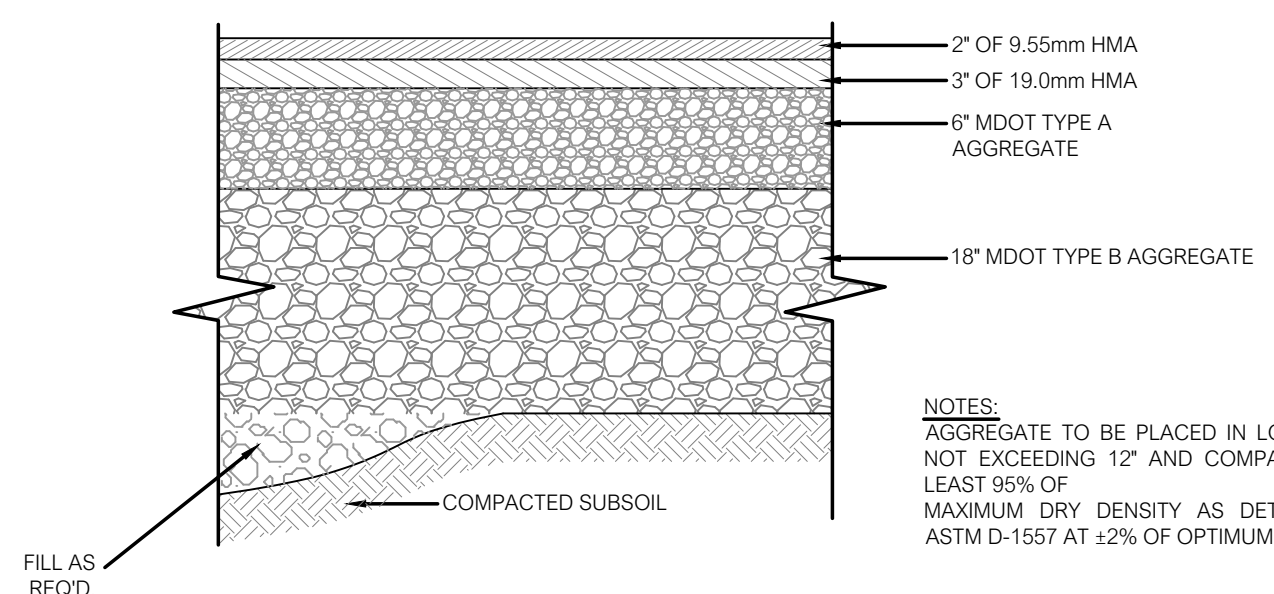
2 STORM DRAIN / SEWER TRENCH DETAIL
C500 NOT TO SCALE



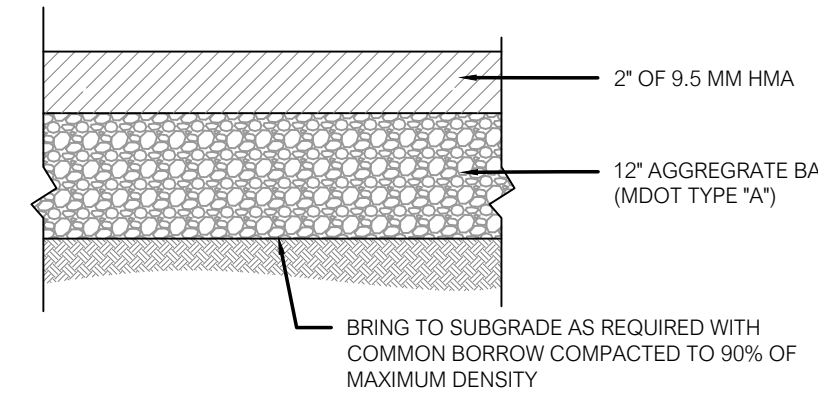
3 PRECAST STANDARD CATCH BASIN
C500 NOT TO SCALE



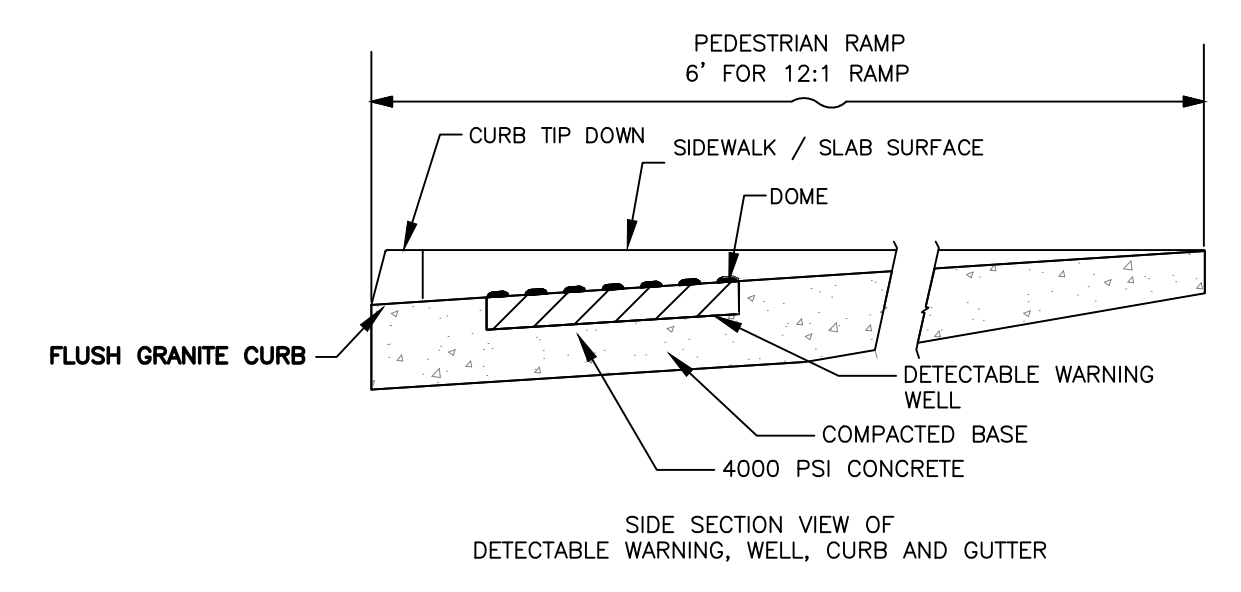
4 GRANITE CURB ADJACENT TO CONCRETE SLAB
C500 NOT TO SCALE



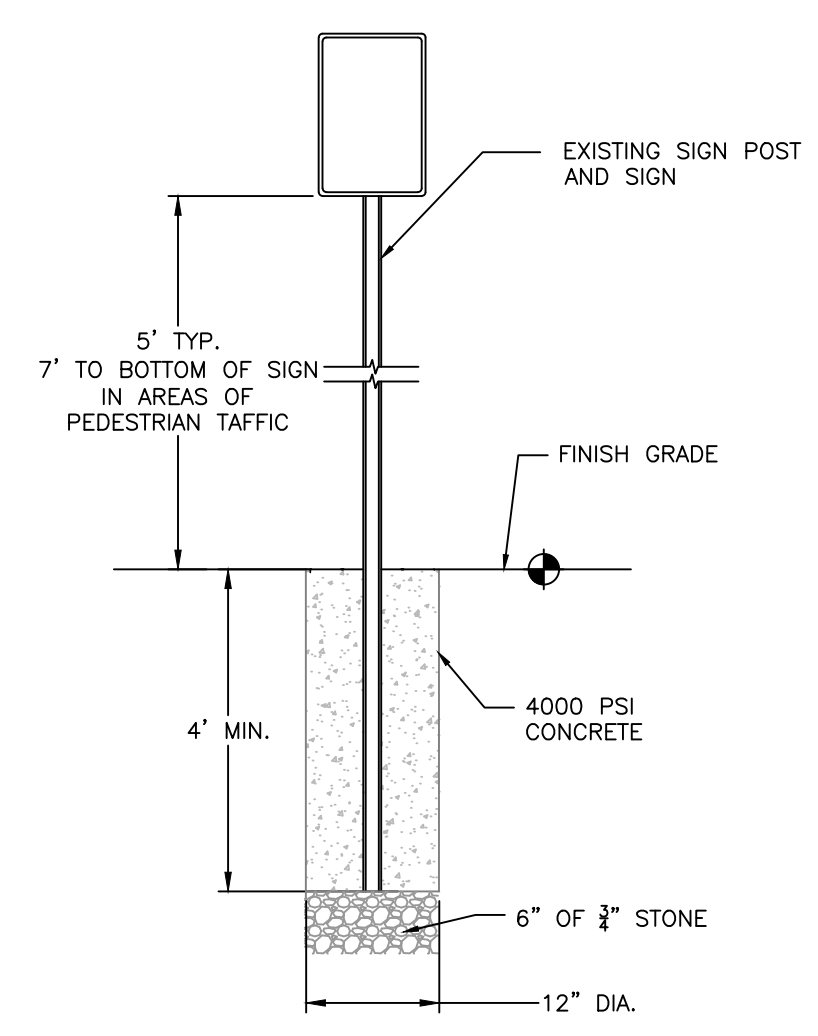
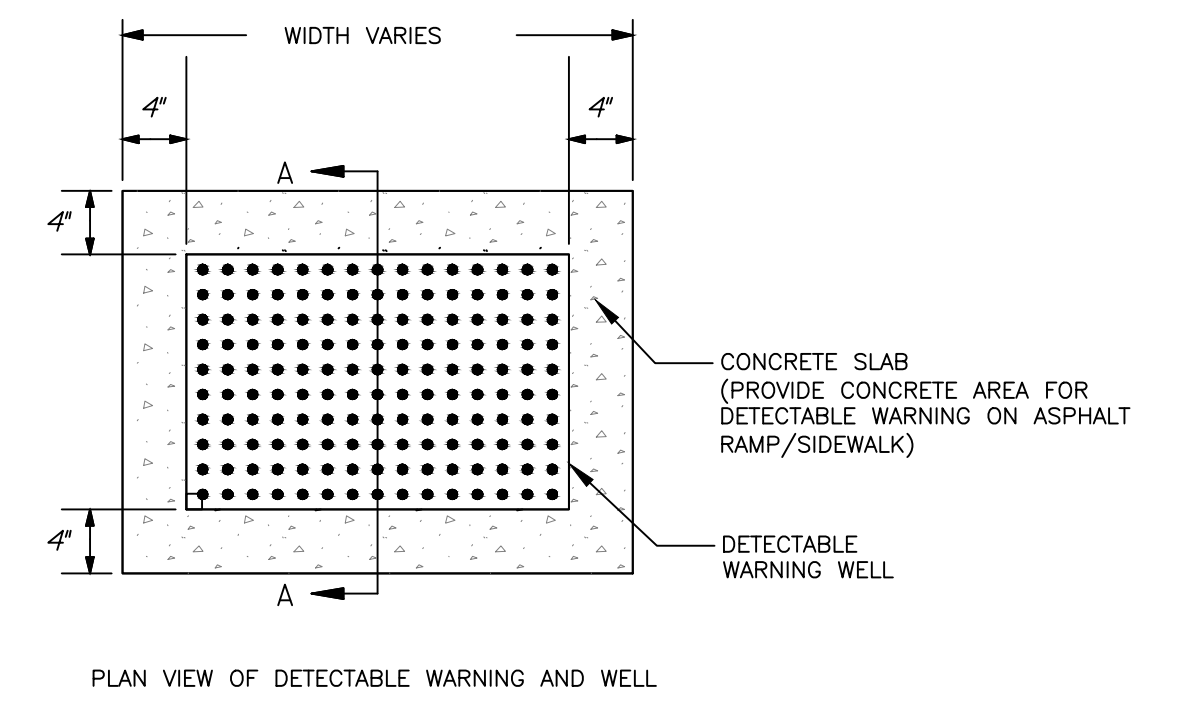
5 HEAVY DUTY PAVEMENT SECTION
C500 NOT TO SCALE



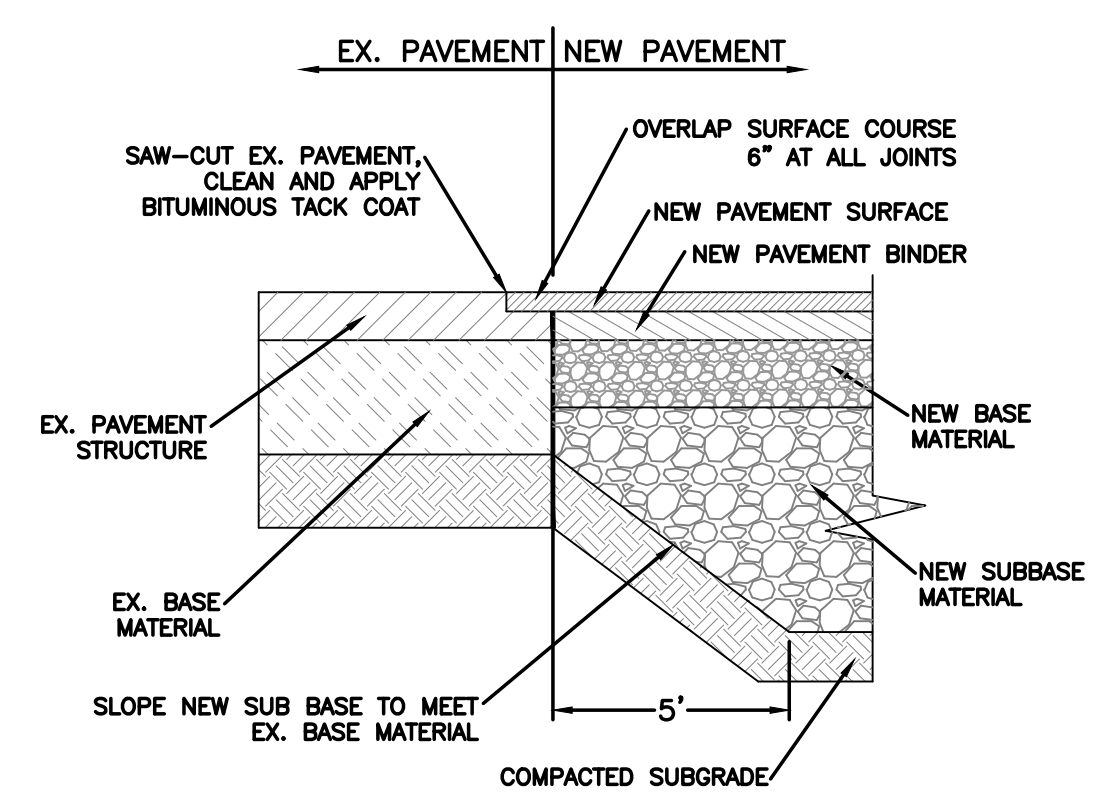
6 ASPHALT SIDEWALK
C500 NOT TO SCALE



7 DETECTABLE WARNING WELL
C500 NOT TO SCALE



12 TYP. SIGN
C200 NOT TO SCALE



- NOTES:**
- CONSTRUCTION REQUIREMENTS FOR THE BITUMINOUS TACK COAT SHALL BE IN ACCORDANCE WITH SECTIONS 409.01 THROUGH 409.07, AS PER THE STATE OF MAINE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES", LATEST REVISION.

9 PAVEMENT JOINT SECTION
C500 NOT TO SCALE



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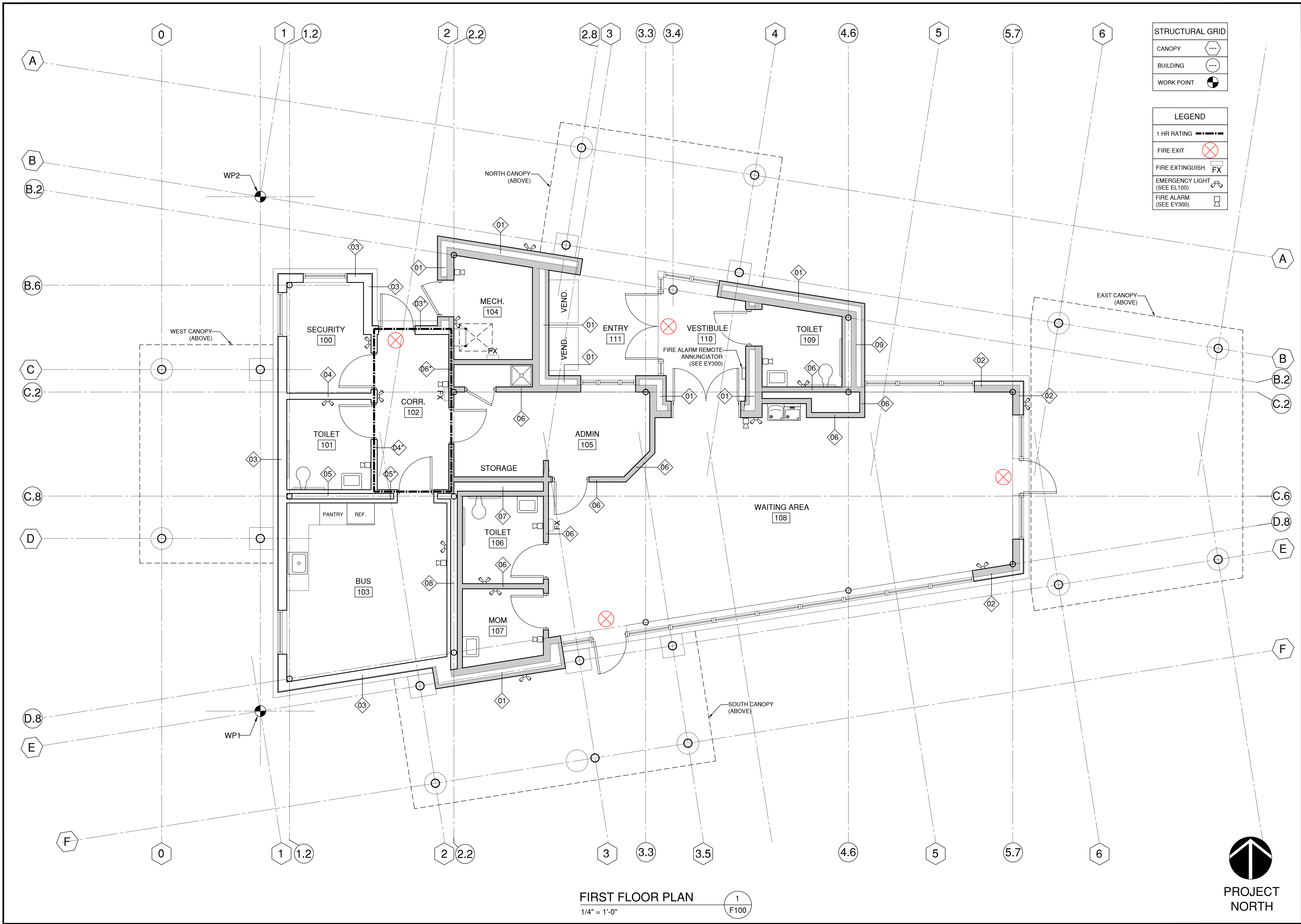
TYPICAL SITE DETAILS

PROJ. NUMBER:	2020115
REV.	DATE
DRAWN BY:	RVL
DESCRIPTION	

CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME

DATE:
MAY 12, 2021

C500



STRUCTURAL GRID

CANOPY	(Symbol: Dashed line with dots)
BUILDING	(Symbol: Solid line)
WORK POINT	(Symbol: Circle with dot)

LEGEND

1 HR RATING	(Symbol: Dashed line)
FIRE EXIT	(Symbol: Circle with X)
FIRE EXTINGUISH.	(Symbol: Square with FX)
EMERGENCY LIGHT (SEE EL100)	(Symbol: Square with light icon)
FIRE ALARM (SEE EY300)	(Symbol: Square with alarm icon)

FIRST FLOOR PLAN
1/4" = 1'-0"



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LIFE SAFETY PLAN

PROJ. NUMBER:	2020115
REV.	DATE
DRAWN BY:	AG
DESCRIPTION	

CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME

DATE:
MAY 12, 2021

F100

BUILDING DATA			
Structure		Steel framed, bar joists, slab-on-grade, concrete foundations	
Footprint at grade plane	2,100 gsf	Contact area	
MOE Exits	4 remote	Refer to drawings	
	Square Ft. (gsf)	Space Utilization	
First Floor Area	2,100 gsf	Assembly (A3)	
TOTAL	2,100 gsf		

GENERAL CODE ITEMS			
Main Entrance		Primary entrance meets accessibility requirements	
Restrooms		Toilet rooms meet accessibility requirements	
Locksets		Locksets to be lever action type	
Electrical Panels		Electrical panels need to be marked (sub panel label)	
Circuit Breakers		Circuit breakers also need to be labeled	
Water Fountain		Fountain must comply with accessibility requirements	

OCCUPANT LOAD					
FLOOR	OCCUPANTS	NUMBER OF EXITS	EGRESS LOAD	REMARKS	
First Floor Level (assembly)	44	(2) requires, (4) provided		Table 1004.1.2	35 seated in Waiting Area + 9 staff

EXIT LOADS & WIDTHS					
TYPE	CURRENT	PROPOSED	EGRESS CAPACITY	REMARKS	
First Floor Level (assembly)	NA	(4) 36" DOORS	480	(2) required, (4) doors provided	.3"/person, Exit Discharge to public way

PLUMBING CODE					
TYPE	OCCUPANTS	WATER CLOSETS (min.)	URINALS	LAV. & WATER FOUNTAINS	
Assembly occupancy	22 M. / 22 W.	M: (1) / F: (1)		M: (1) / F: (1) / H2O Fountains: (1)	(1) service sink required

TOPIC	IBC 2015		NFPA 101 LSC 2018		RESPONSE
	SECTION	CONTENT	SECTION	CONTENT	
USE GROUP					
Assembly (A-3)	303	Assembly (A-3)	Chapter 12	New Assembly (<300)	
ALLOWABLE HEIGH & AREA					
Stories Above Grade Plane	Table 504.4	2 stories allowed	12.1.6	1	
Building Area per Story	Table 506.2	9,500 sf allowed	N/A	Subject not addressed	2,100 sf actual
Building Height	Table 504.3	55' allowed	N/A	Subject not addressed	20' actual
INCIDENTAL ACCESSORY					
Fire Separation	Table 509	1 hr separation or auto. fire-extinguishing system for Furnace Room w/ equip. >4,000 BTU/hr or Boiler Room w/ equip. >15psi & 10hp			
CONSTRUCTION TYPE					
	Table 601	Type 2B		Type 2(000)	
FIRE RESISTANCE RATING					
Primary Struct. Frame/Columns	Table 601	0 hours	NFPA 220	0 hours	
Bearing Walls Exterior	Table 601	0 hours	NFPA 220	0 hours	
Bearing Walls Interior	Table 601	0 hours	NFPA 220	0 hours	
Nonbearing Walls Interior	Table 601	0 hours	NFPA 220	0 hours	
Nonbearing Walls Interior	Table 601	0 hours	NFPA 220	0 hours	
Floor/Ceiling Construction	Table 601	0 hours	NFPA 220	0 hours	
Roof/Ceiling Construction	Table 601	0 hours	NFPA 220	0 hours	
Fire Protection					
Automatic Sprinklers	903.2.1.2	N/A	12.3.5	N/A	Exceptions 1-3 apply (IBC 2015)
CORRIDORS					
Dead End	1020.2	20' limit	A.7.6	20' limit	Not Sprinklered
Travel Distance	1017.2	200'	12.2.6.2	200'	Not Sprinklered
Minimum Width	1020.2	44" (3'-8")	12.2.3.8	44" (3'-8")	Not Sprinklered
Common Path			A.7.6	75' limit	Not Sprinklered
Construction	1021.1	1 hr rating	7.1.3.2.1	1 hr rating	
MEANS OF EGRESS					
Required Means of Egress	1006.3.1	(2) exits req. at levels 1&2	A.7.6	20' limit	Not Sprinklered
Ceiling Height	1003.2	Not < (7'-6")	12.2.6.2	200'	Not Sprinklered
Minimum Ceiling Height			12.2.3.8	44" (3'-8")	Not Sprinklered
Elevation Changes			A.7.6	75' limit	Not Sprinklered
Floor Surface	1003.4	Slip-resistant, securely attached	7.1.3.2.1	1 hr rating	
Total Width of Egress Comp.	1005.1	Total Occupant Load served by MOE x (.2") per occupant			
Max. Capacity from any Story	1005.1	Maintained to MOE termination			
Point of Measurement			7.3.2.1	In the clear at narrowest point	
Max. Corridor Projections			7.2.2.2.1.2	Not more than (4-1/2") on each side at or below handrail height (36")	
Max. Stairway Projections			7.3.2.2	(4-1/2") on each side at (38")	
Max. Stair Projections			7.3.2.1	In accordance with 7.2.2.4.4.3 permitted at (42")	



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CODE REVIEW

PROJ. NUMBER:	DATE	DESCRIPTION
2020115		
REV.		

CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME

DATE:
MAY 12, 2021

F101

ARCHITECTURAL ABBREVIATIONS

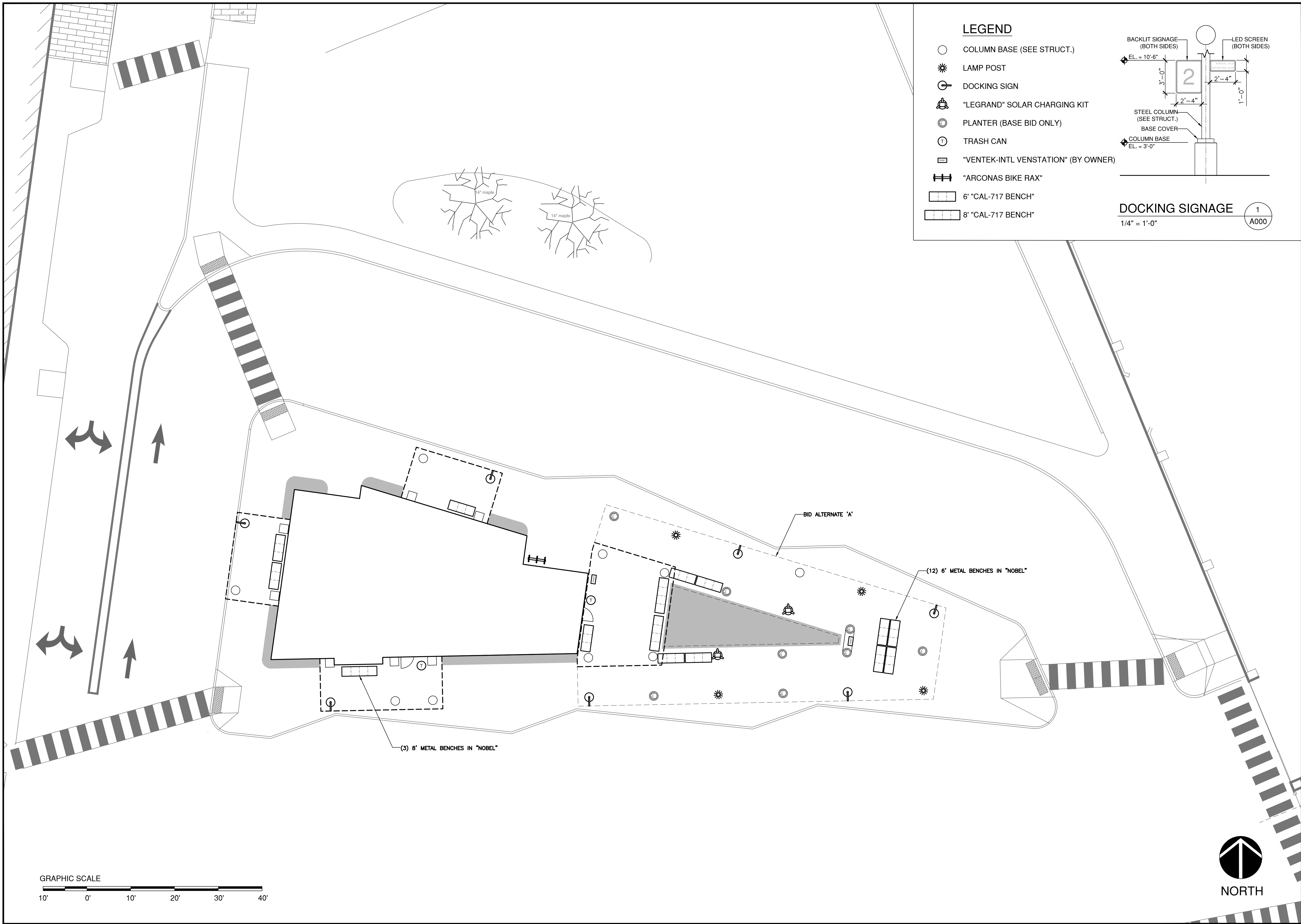
Ø	DIAMETER	ETC	ETCETERA
1 PP	SINGLE PHASE	EVAP	EVAPORATIVE
3/W	THREE WAY	EVC	END VERTICAL CURVE
3/C	THREE CONDUCTOR	EW	EACH WA
3/P	THREE POLE	EWC	ELECTRIC WATER COOLER
4 WAY	FOUR WAY	EWG	EXHAUST WALL GRILLE
⊕	AT	EWR	EXHAUST WALL REGISTER
ABI	ADDITIVE BID ITEM	EWT	ENTERING WATER TEMPERATURE
AB	ANCHOR BOLT, AUGER BORING	EXH	EXHAUST
ABS	AIR BREAK SWITCH	EXIST	EXISTING
AC	ACOUSTIC	EXP	EXPANSION, EXPOSED
	ASPHALTIC CONCRETE	EXP JT	EXPANSION JOINT
	ACCESS DOOR, AREA DRAIN,	EPXY	EPHOXY PAINT
	ALGEBRAIC DIFFERENCE	EXT	EXTERIOR
ADD ALT	ADDITIVE ALTERNATE	F	FAHRENHEIT, FIRE, FREEZER, FLOOR
ADJ	ADJUSTABLE	F&T	FLOAT AND THERMOSTATIC
AE	AERIAL ELECTRICAL	FABX	FIRE ALARM BOX
AFF	ABOVE FINISH FLOOR	FAC	FIRST AID CABINET
AHU	AIR HANDLING UNIT	FBO	FURNISHED BY OTHERS
ALT	ALTERNATE	FC	FLEXIBLE CONNECTION
ALUM	ALUMINUM	FCO	FLOOR CLEAN-OUT
AMP, A	AMPERE	FD	FLOOR DRAIN, FOOTING DRAIN
ANOD	ANODIZE	FDR	FEEDER
AP	ACCESS PANEL	FE	FIRE EXTINGUISHER
APD	AIR PRESSURE DROP	FF	FAR FACE, FINISH FLOOR
APPROX	APPROXIMATE	FFE	FINISHED FLOOR ELEVATION
ARCH	ARCHITECTURAL	FG	FINISH GRADE, FIBERGLASS
ASB	ASBESTOS	FH	FIRE HYDRANT
ASPH	ASPHALT	FHC	FIRE HOSE CABINET
ATC	ACOUSTIC TILE CEILING	FIC	FIGURE
AUTO	AUTOMATIC	FIN	FINISH
AV	AUTOMATIC VENT	FJ	FELT JOINT
	BATH, BOILER, BASE	FL	FLOOR, FLASHING
B	BULLETIN BOARD	FLUOR	FLUORESCENT
BC	BALANCING COCK	FM	EXIST. FORCE MAIN
	BOTTOM OF CURB,	FO	FACE OF STUD,
	BOARD	FOF	FACE OF FOUNDATION
BRD	BACKFLOW PREVENTER	FOR	FUEL OIL RETURN
BHP	BREAK HORSEPOWER	FOS	FACE OF STUD,
BIT, CONC.	BITUMINOUS CONCRETE	FUF	FUEL OIL SUPPLY
BJ	BAR JOIST	FOUND	FOUNDATION
BLDG	BUILDING	FP	FINNED PIPE
BLK	BLOCK	FP	FIREPROOF
BM	BEAM, BENCHMARK	FPH	FROST PROOF HYDRANT
BOT	BOTTOM	FFM	FEET PER MINUTE
BR	BOTTOM REGISTER, BEDROOM	FR	FRAME, FIRE RESISTANT
BRG	BEARING	FS	FLOOR SINK
BS	BOTTOM OF STEP	FT	FOOT, FEET, FINNED TUBE
BSMT	BASEMENT	FTG	FOOTING
BTWN	BETWEEN	FU	FIXTURE UNIT
BTU	BRITISH THERMAL UNIT	FV	FACE VELOCITY
BV	BALANCING VALVE		
BW	BEGIN VERTICAL CURVE	GA	GALVANIZED
CA	CATCH BASIN	GALV	GALVANIZED
CC	CENTER TO CENTER	GC	GENERAL CONTRACTOR
CEM	CEMENT	GF/GI	GOVT. FURNISHED/GOVT. INSTALLED
CFM	CUBIC FEET PER MINUTE	GF/GI	GOVT. FURNISHED/CONTRACTOR INSTALLED
CI	CAST IRON	GI	GALVANIZED IRON
CIR	CIRCULATING	GL	GLASS
CJ	CONSTRUCTION JOINT	GOV/T	GOVERNMENT
	CONTROL JOINT	GPM	GALLONS PER MINUTE
CKT	CIRCUIT	GR	GRADE
CL	CLEAR	GRAN	GRANULAR
CLG	CEILING	GRD	GROUND
CLO	CLOSET	GT	GREASE TOP
CLR	CLEAR	GV	GATE VALVE
CMP	CORRUGATED METAL PIPE	GWB	GYPSUM WALLBOARD
CMU	CONCRETE MASONRY UNITS	GYP	GYPSUM
CMU G1	GLAZED CMU, ONE SIDE		
CMU G2	GLAZED CMU, TWO SIDES	H	HUMIDIFIER
CND,C	CONDUIT	H,HGT	HEIGHT
CNDS	CONDENSATE	H&V	HEATING AND VENTILATING
CO	CLEANOUT	HB	HOSE BIB
COL	COLUMN	HC	HANDICAPPED
COMP'T	COMPARTMENT	HCWD	HEATING CONTRACTOR
CONC	CONCRETE	HDC	HANDICAPPED WOOD DOOR
COND	CONDUCTOR	HDW	HARDWARE
CONN	CONNECTION	HDWD	HARDWOOD
CONST	CONSTRUCTION	HGSW	HORN GAP SWITCH
CONT	CONTINUOUS	HM	HOLLOW METAL
CONTR	CONTRACTOR	HORIZ	HORIZONTAL
CONV	CONVERTER	HP	HORSEPOWER, HIGH POINT
COP,CU	COPPER	HPS	HIGH PRESSURE STEAM,
CR	CONDENSATE RETURN	HR	HIGH PRESSURE SODIUM
CS/CJ	CONTRACTOR SUPPLIED/ CONTRACTOR INSTALLED	HRU	HEAT RECOVERY UNIT
	CONTRACTOR SUPPLIED/ OWNER INSTALLED	HS	HIGH STRENGTH
CS/OI	COUNTER SINK	HTH	HIGH TEMPERATURE HOT WATER
	CERAMIC TILE,	HTP	HIGH TEMPERATURE RETURN
CT	CURRENT TRANSFORMER	HTS	HIGH TEMPERATURE SUPPLY
	CONNECT TO EXISTING	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
CTE	CENTER	HW	HOT WATER HEADWALL
CTR	CENTER	HWR	HOT WATER RETURN
CU	COPPER	HWS	HOT WATER SUPPLY
CUH	CABINET UNIT HEATER	HYD	HYDRANT
CV	CONTROL VALVE	HZ	HERTZ
CW	COLD WATER	ID	INSIDE DIAMETER
CWR	CHILLED WATER RETURN	IER	INVERTED ECCENTRIC REDUCER
CWS	CHILLED WATER SUPPLY	IN	INCH
		INCL	INCLINATION
D	DEPTH, DEGREE OF CURVATURE	INFO	INFORMATION
	DRAIN, DRYER	INSUL	INSULATION, INSULATED
D PNL	DISTRIBUTION PANEL	INT	INTERIOR
D&D	DROP AND DRIP	INT	INTERIOR
DB	DIRECT BURIAL	INW	IN WALL
	DRY BULB, DECIBEL	INW	IN WALL
DD	DOOR DIMENSION	JB	JUNCTION BOX
DFD	DOOR FRAME DIMENSION	JAN	JANITOR CLOSET
DH	DRILL HOLE, DOUBLE HUNG	JCT	JUNCTION
DI	DUCTILE IRON, DITCH INVERT	JST	JOIST
DIA	DIAMETER	JT	JOINT
DIC	DOWN IN CORNER/CHASE	K	KITCHEN, CURVE COEFFICIENT
DIFF	DIFFUSER	KPG	KILOPASCAL
DIM	DIMENSION	KO	KNOCK OUT
DISP	DISPENSER	KV	KILOVOLT
DIW	DOWN IN WALL	KWA	KILOWATT-AMPERE
DL	DEAD LOAD	KW	KILOWATT
DMH	DRAIN MANHOLE	L	LENGTH OF CURVE
DMPFG	DAMP PROOFING	L	LENGTH OF CURVE
DMPR	DAMPEN	L	LENGTH OF CURVE
DN	DOWN	LA	LIGHTNING ARRESTOR
DO	DITTO, DRAW-OFF	LAB	LABORATORY
DS	DOWN SPOUT	LAD	LADDER
DTL	DETAIL	LAT	LEAVING AIR TEMPERATURE
DWG	DRAWING	LAV	LAVATORY
	EAST, ELECTRICAL	LBS	POUNDS
E	EACH	LF	LINEAR FEET
EAT	ENTERING AIR TEMPERATURE	LGR	LEDGER
EC	ELECTRICAL CONTRACTOR	LL	LIVE LOAD
	EMPTY CONDUIT	LLH	LONG LEG HORIZONTAL
ECG	EXHAUST GRILLE	LV	LONG LEG VERTICAL
ECR	EXHAUST CEILING REGISTER	LP	LOW POINT, LIGHTING PANEL
EF	EACH FACE, EXHAUST FAN	LPS	LOW PRESSURE STREAM, LOW PRESSURE
EG	EXHAUST GRILLE	LPT	LITERS PER SECOND
ELELEV	ELEVATION	LR	LIVING ROOM
ELEC	ELECTRIC	LT	LIGHT
EMER	EMERGENCY	LTHW	LOW TEMPERATURE HOT WATER
ENCL	ENCLOSURE	LTR	LOW TEMPERATURE RETURN
ENP	EDGE OF PAVEMENT	LTS	LOW TEMPERATURE SUPPLY
EPS	EXTRUDED POLYSTYRENE	LW	LIGHT WEIGHT
EPT	ENAMEL PAINT	LWC	LIGHT WEIGHT CONCRETE
EQ	EQUAL	LWCO	LOW WATER CUT-OFF
EQUIP	EQUIPMENT	M&S	MIRROR AND SHELF
ER	EXHAUST REGISTER	MACH	MACHINE

M	MANUFACTURER	SH	SINGLE HUNG
MAS	MATERIAL	SHIT	SHEET
MAX	MAXIMUM	SIM	SIMILAR
MBH	THOUSAND BTU PER HOUR	SL	SLOPE
MC	MEDICINE CABINET	SMH	SANITARY MANHOLE
MCB	METAL CORNER BEAD	SMC	SANITARY MANHOLE DISPOSAL
MD	MANUAL DAMPER	SP	SINGLE POLE
MECH	MECHANICAL	SPD	STATIC PRESSURE,
MH	MANHOLE	SPD	SINGLE POLE, DOUBLE THROW
MIN	MINIMUM	SPD	SPECIFICATIONS
MIR	MIRROR	SQ	SQUARE
MISC	MISCELLANEOUS	SQ FT	SQUARE FEET
MLDG	MOLDING	SR	SUPPLY REGISTER
MM	MILLIMETER	SS	SERVICE SINK, SANITARY SEWER
MO	MASONRY OPENING,	ST	STREET, SINGLE THROW,
	MOTOR OPERATED		STRUCTURAL TUBING
MCD	MOTOR OPERATED DAMPER	STA	STATION
MPCAL	MEGAPASCAL	STD	STANDARD
MPS	METAL PLASTER STOP	STL	STEEL
MR	MOISTURE RESISTANT	STOR	STORAGE
MS	METAL STRIP	STRUC	STRUCTURAL
MTD	MOUNTED	SUP	SUPPORT
MTL	METAL	SUSP	SUSPEND
MV	MANUAL VENT	SW	STORM WATER
		SW	SWITCH
N	NORTH	SWG	SUPPLY WALL GRILLE
N.I.C.	NOT IN CONTRACT	SWR	SUPPLY WALL REGISTER
NC	NONCORROSIVE,	SYM	SYMMETRICAL
	NORMALLY CLOSED		
NDC	NEW UNDERGROUND ELECTRICAL	T	TRANSFORMER, THERMOMETER,
NEUT	NEUTRAL	TBM	TEMPORARY BENCH MARK
NF	NEAR FACE	T&B	TOP AND BOTTOM
NFD	NEW FOOTING DRAIN	T&G	TONGUE & GROOVE
NFH	NEW FIRE HYDRANT	T.O.C.	TOP OF CONCRETE
NFM	NEW FORCE MAIN	T.O.M.	TOP OF MASONRY
NLP	NEW LIQUID PROPANE GAS	T.O.S.	TOP OF STEEL, TOP OF SLAB
NLR	NEW LIQUID RETURN	T.O.W.	TOP OF WALL
NOM	NOMINAL, NORMALLY OPEN	TC	TEMPERATURE CONTROL
NSD	NEW STORM DRAIN	TC	TOP OF CURB
NSS	NEW SANITARY SEWER	TCG	TRANSFER CEILING GRILLE
NT	NEW TELEPHONE LINE	TCP	TEMPERATURE CONTROL PANEL
NTS	NOT TO SCALE	TDV	TRIPLE DUTY VALVE
NTS	NOT TO SCALE	TEL	TELEPHONE
NUE	NEW UNDERGROUND ELECTRIC	TEMP	TEMPERATURE, TEMPORARY
NUP	NEW UNDERGROUND PRIMARY	TERM	TERMINAL
NUS	NEW UNDERGROUND SECONDARY	THK	THICK
		THRU	THROUGH
OA	OVER ALL, OUTDOOR AIR	TP	TOILET PARTITION
OB GL	OBSCURE GLASS	TPD	TOILET PAPER DISPENSER
OC	ON CENTER	TRAN	TRANSFORMER
OCB	OIL CIRCUIT BREAKER	TS	TOP OF STEP, TOP OF SILL
OD	OUTSIDE DIAMETER	TSP	TOTAL STATIC PRESSURE
OPNG	OPENING	TSSTAT	THERMOSTAT
OPP	OPPOSITE	TT	THERMOSTATIC TRAP
OS&Y	OUTSIDE SCREW AND YOKE	TV	TELEVISION CAMERA
OS/OI	OWNER SUPPLIED / OWNER INSTALLED	TWG	TURNING VANE
OVHD, OH	OVERHEAD	TYP	TRANSFER WALL GRILLE
		TYPE "X"	UL APPROVED GWB
P	PIPE	U&D	UP AND DOWN
P	PUMP	UC	UNDERCUT
P	PUMP NUMBER	UE	UNDERGROUND ELECTRICAL
P-1	PLUMBING FIXTURE TYPE	UG	UNDERGROUND
PART	PARTITION	UH	UNDER HEATER
PAT	PATIENT	UI	UP IN CHASE
PAINT	PAINT	UIC	UP IN WALL
PB	PULL BOX	UNO	UNLESS NOTED OTHERWISE
PC	PLUMBING CONTRACTOR	UV	UNIT VENTILATOR
PF	PUMP DISCHARGE	V	VENT, VOLT, VALVE
PI	PRESSURIZATION FAN	VAC	VACUUM
PJ	PRESSURE GAUGE	VAV	VARIABLE AIR VOLUME
POI	POINT OF INTERSECTION	VB	VACUUM BREAKER
PNV	PISTON INDICATOR VALVE	VAP	VAPOR BARRIER
PL	PLATE	VCB	VINYL COVE BASE
PLAS	PLASTER	VCT	VINYL COMPOSITION TILE
PLAST	PLASTIC	VEN	VENEER
PLYWD	PLYWOOD	VENT	VENTILATING, VENTILATOR
PNTD	PAINTED	VERT	VERTICAL
POL	POLISHED	VEST	VESTIBULE
PRELIM	PRELIMINARY	VI	VIBRATION ISOLATOR
PRESS	PRESSURE	VS	VENT STACK, VINYL STRIP
PRIM	PRIMARY	VSB	VINYL STRAIGHT BASE (CARPET BASE)
PROJ	PROJECTION	VT	VINYL THRESHOLD
PRV	PRESSURE REDUCING VALVE	VTR	VENT THRU ROOF
PS	PULL SWITCH	VWB	VINYL WALL BASE
PSF	POUNDS PER SQUARE FOOT	VWC	VINYL WALL COVER
PSI	POUNDS PER SQUARE INCH	W	WASTE, WALL,
PT	PAIN	W	WEST, WASHING MACHINE
PTD	PRESSURE TREATED	W/CAB	WALL CABINET
PAPER TOWEL DISPENSER		W/O	WITHOUT
PVC	POLY VINYL CHLORIDE	WC	WATER CLOSET
PV	POINT OF VERTICAL INTERSECTION	WCO	WALL CLEAN-OUT
		WD	WIDTH, WINDOW DIMENSION,
		WOD	WOOD
		WDW	WINDOW
		WGL	WIRE GLASS
		WH	WATER HEATER
		WHS	WATERHEATER
		WNSCT	WAINSCOT
		WP	WATERPROOF, WEATHERPROOF
		WPD	WATER PRESSURE DROP
		WS	WASTE STACK, WATER SURFACE,
			WATERSTOP, WEATHERSTRIPPING
		WSD	WATER SHUT OFF
		WTD	WEIGHT
		WTR	WATER TEMPERATURE DROP
		WTF	WATER TEMPERATURE RISE
		WVF	WELDED WIRE FABRIC
X-SECT	CROSS SECTION		
X-STR	EXTRA STRENGTH		
XFMR	TRANSFORMER		

ARCHITECTURAL SYMBOLS

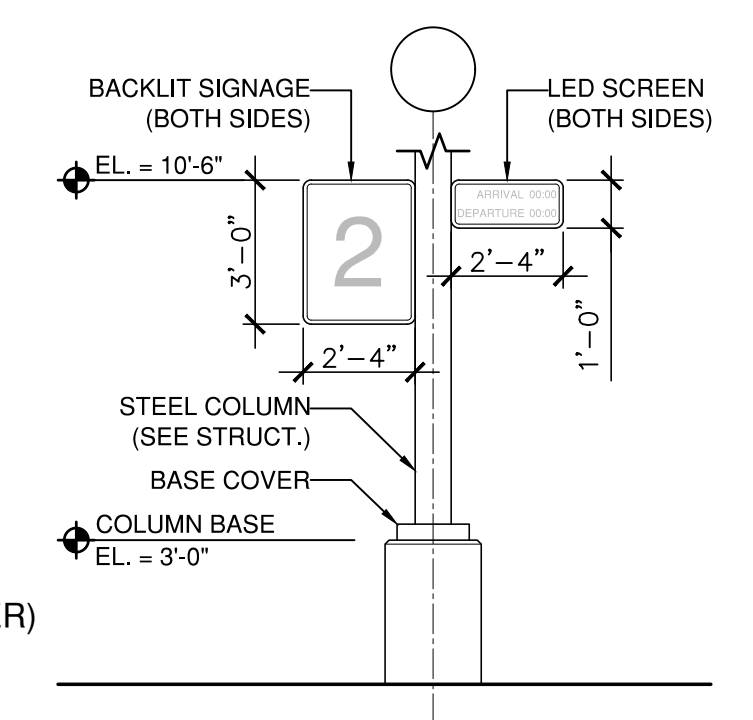
	DETAIL NUMBER		033000, STONE, CONCRETE PATTERN		061000, WOOD FRAMING, CONTINUOUS PATTERN
	SHEET NUMBER DETAIL IS DRAWN IN		035216, CONCRETE PATTERN, LIGHTWEIGHT		061000, WOOD, GLUED-LAMINATED PATTERN
	BUILDING ELEVATION NUMBER		047200, MASONRY PATTERN		062000, ORIENTED STRAND BOARD PATTERN
	SHEET NUMBER ELEVATION IS DRAWN IN		074200, BRICK PATTERN, GLAZED		062000, PARTICLE PATTERN
	BUILDING / WALL SECTION NUMBER		047200, TERRA COTTA		062000, WOOD FINISH PATTERN
	INTERIOR ELEVATION REFERENCE		044300, STONE CUT PATTERN		072100, INSULATION, LOOSE FILL PATTERN
	SHEET NUMBER ELEVATION IS DRAWN IN		051200, STEEL PATTERN		072100, INSULATION, RIGID BOARD PATTERN
	COLUMN GRID REFERENCE		051200, BRONZE BRASS PATTERN		079200, SEALANT AND BACKER ROD
	WALL TYPE REFERENCE		051200, ALUMINUM & OTHER METAL PATTERN		088000, GLASS ELEVATION PATTERN
	WINDOW TYPE REFERENCE		312000, EARTH, CRUSHED ROCK GRAVEL PATTERN		092900, GYPSUM BOARD FINISH PATTERN
	DOOR REFERENCE		061000, 062000, PLYWOOD PATTERN		095113, TILE, ACOUSTICAL CEILING PATTERN
	ELEVATION MARKER - PLAN		061000, WOOD BLOCKING OR SHIM PATTERN		096816, CARPET AND PAD PATTERN
	ELEVATION MARKER - SECTION				
	REVISION CLOUD				
	REVISION NUMBER				
	GRAPHIC SCALE				
	BREAK LINE				
	ROOM NAME				
	ROOM NUMBER				
	DESIGNATION NAME				
	SCALE				
	SHEET NUMBER WHERE REFERENCED				

NOTES:
 1. ALL SYMBOLS & ABBREVIATIONS ON THIS SHE



LEGEND

- COLUMN BASE (SEE STRUCT.)
- ✱ LAMP POST
- Ⓢ DOCKING SIGN
- Ⓜ "LEGRAND" SOLAR CHARGING KIT
- ⊙ PLANTER (BASE BID ONLY)
- Ⓣ TRASH CAN
- Ⓜ "VENTEK-INTL VENSTATION" (BY OWNER)
- Ⓜ "ARCONAS BIKE RAX"
- ▭ 6" "CAL-717 BENCH"
- ▭ 8" "CAL-717 BENCH"



DOCKING SIGNAGE 1
1/4" = 1'-0" A000



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ARCHITECTURAL SITE PLAN

PROJ. NUMBER:	2020115
REV.	DATE
DRAWN BY:	RML
DESCRIPTION	

CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME

DATE:
MAY 12, 2021

A001

WALL TYPES

PROJ. NUMBER:	2020115
DATE	
DRAWN BY:	AG
DESCRIPTION	
REV.	

CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME

DATE:
MAY 12, 2021

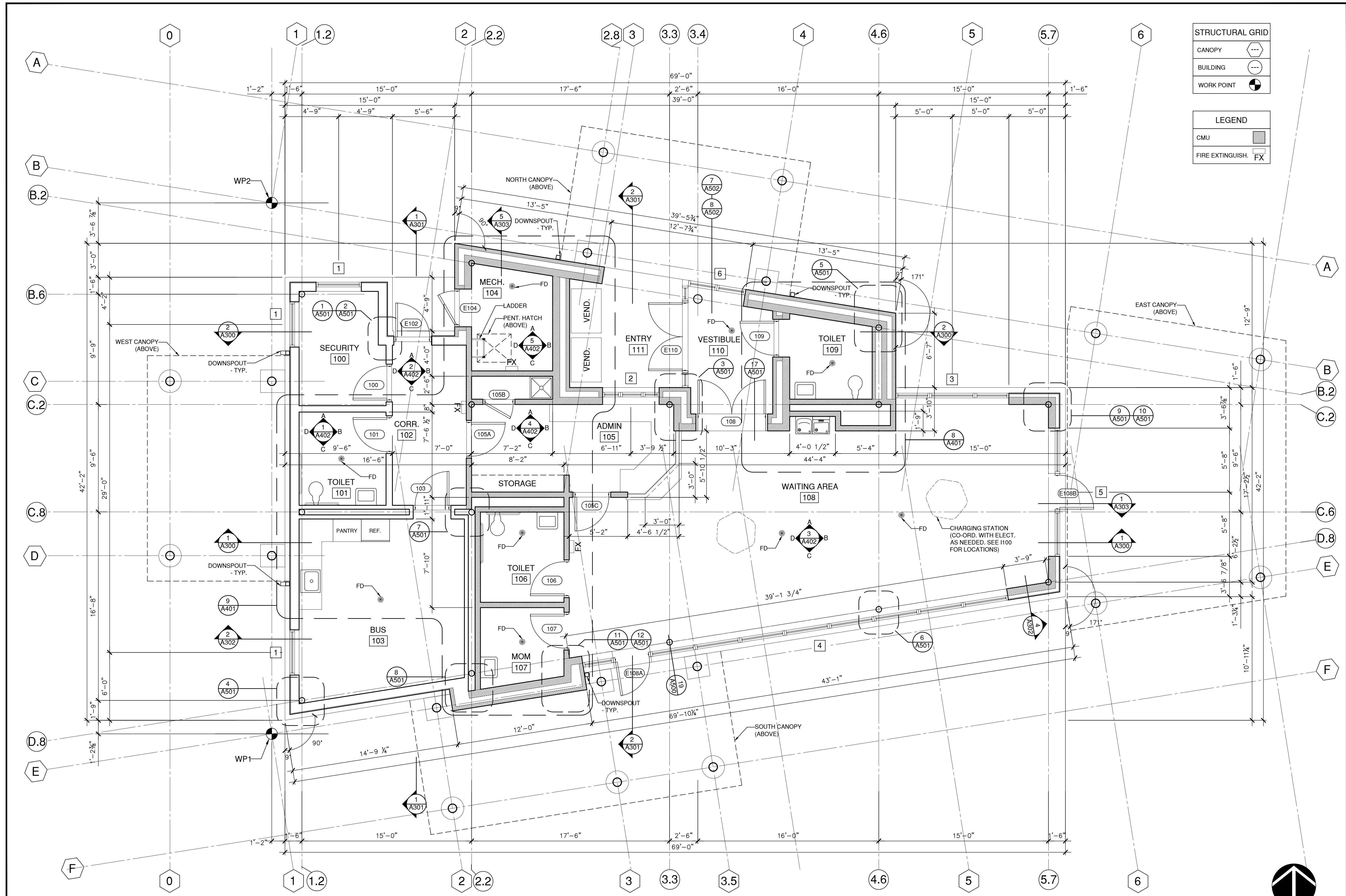
A003

	WALL TAG	01	DESCRIPTION	EXT. WALL
	WALL TAG	02	DESCRIPTION	EXT. WALL / PUBLIC
	WALL TAG	03 NON-RATED 03 RATED	DESCRIPTION	EXT. WALL / ADMIN
	WALL TAG	04 NON-RATED 04 RATED	DESCRIPTION	INT. WALL / ADMIN
	WALL TAG	05 NON-RATED 05 RATED	DESCRIPTION	PLUMBING CHASE / ADMIN

	WALL TAG	06 NON-RATED 06 RATED	DESCRIPTION	INT. WALL / PUBLIC
	WALL TAG	07	DESCRIPTION	PLUMBING CHASE / PUBLIC
	WALL TAG	08	DESCRIPTION	BUS / TOILET SHARED WALL
	WALL TAG	09	DESCRIPTION	EXT. WALL / TOILET 109

STRUCTURAL GRID	
CANOPY	---
BUILDING	---
WORK POINT	●

LEGEND	
CMU	▨
FIRE EXTINGUISH.	FX



FIRST FLOOR PLAN

PROJ. NUMBER:	DRAWN BY:	DATE	DESCRIPTION
2020115	AG		
REV.			

CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME

DATE: MAY 12, 2021

A100

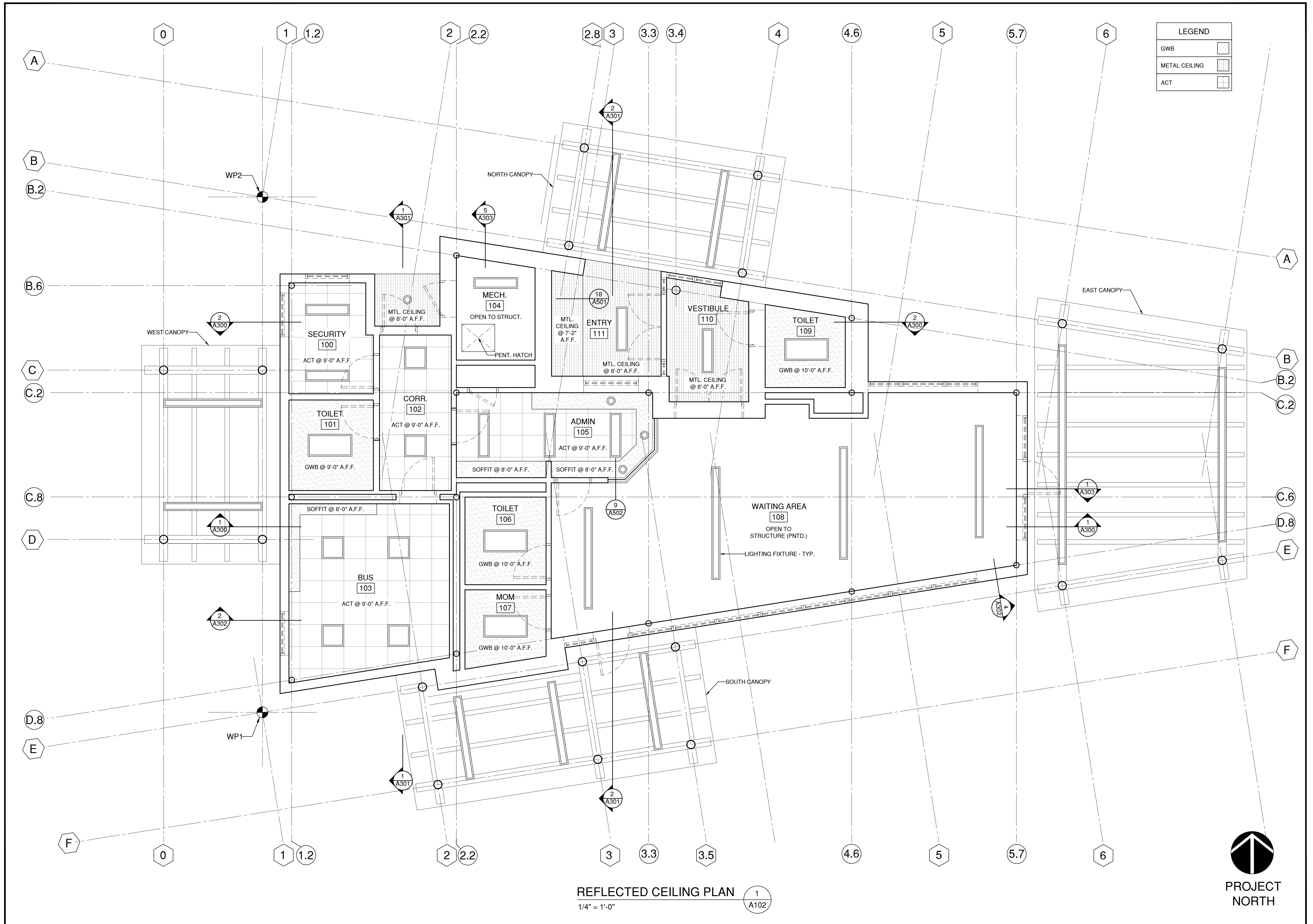
FIRST FLOOR PLAN

1/4" = 1'-0"

1
A100

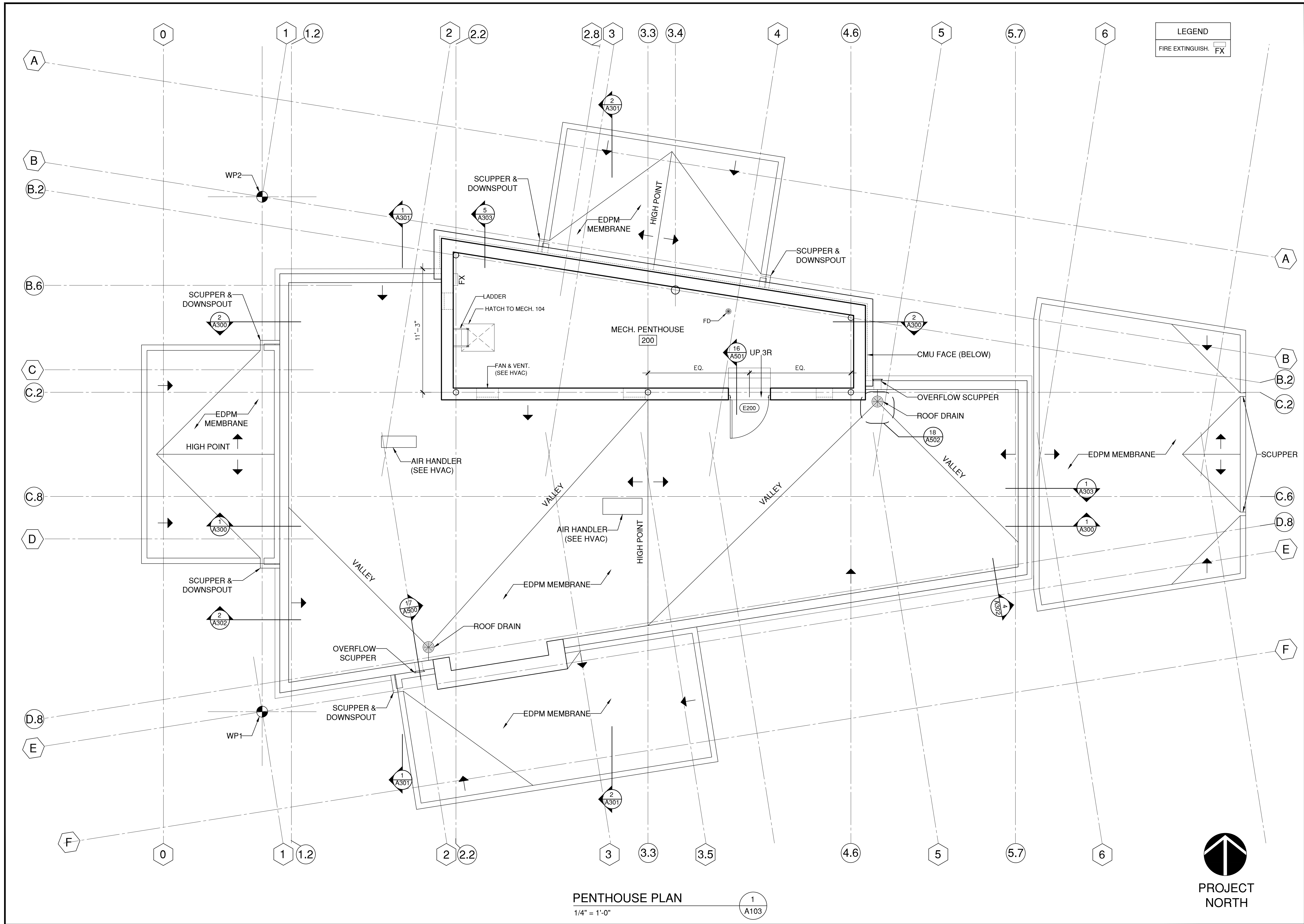


PROJ. NUMBER:	2020115
DATE:	
DRAWN BY:	AG
DESCRIPTION:	



REFLECTED CEILING PLAN 1
1/4" = 1'-0" A102

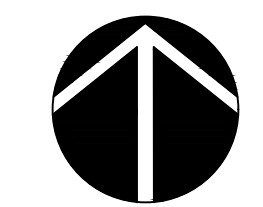




PENTHOUSE PLAN

1/4" = 1'-0"

1
A103



PROJECT
NORTH



128 Broadway
Bangor, Maine 04401
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207-974-3028 Fax:
207-941-1921
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PENTHOUSE PLAN

PROJ. NUMBER:	DRAWN BY:	AG
2020115		
REV.	DATE	DESCRIPTION

CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME

DATE:
MAY 12, 2021

A103

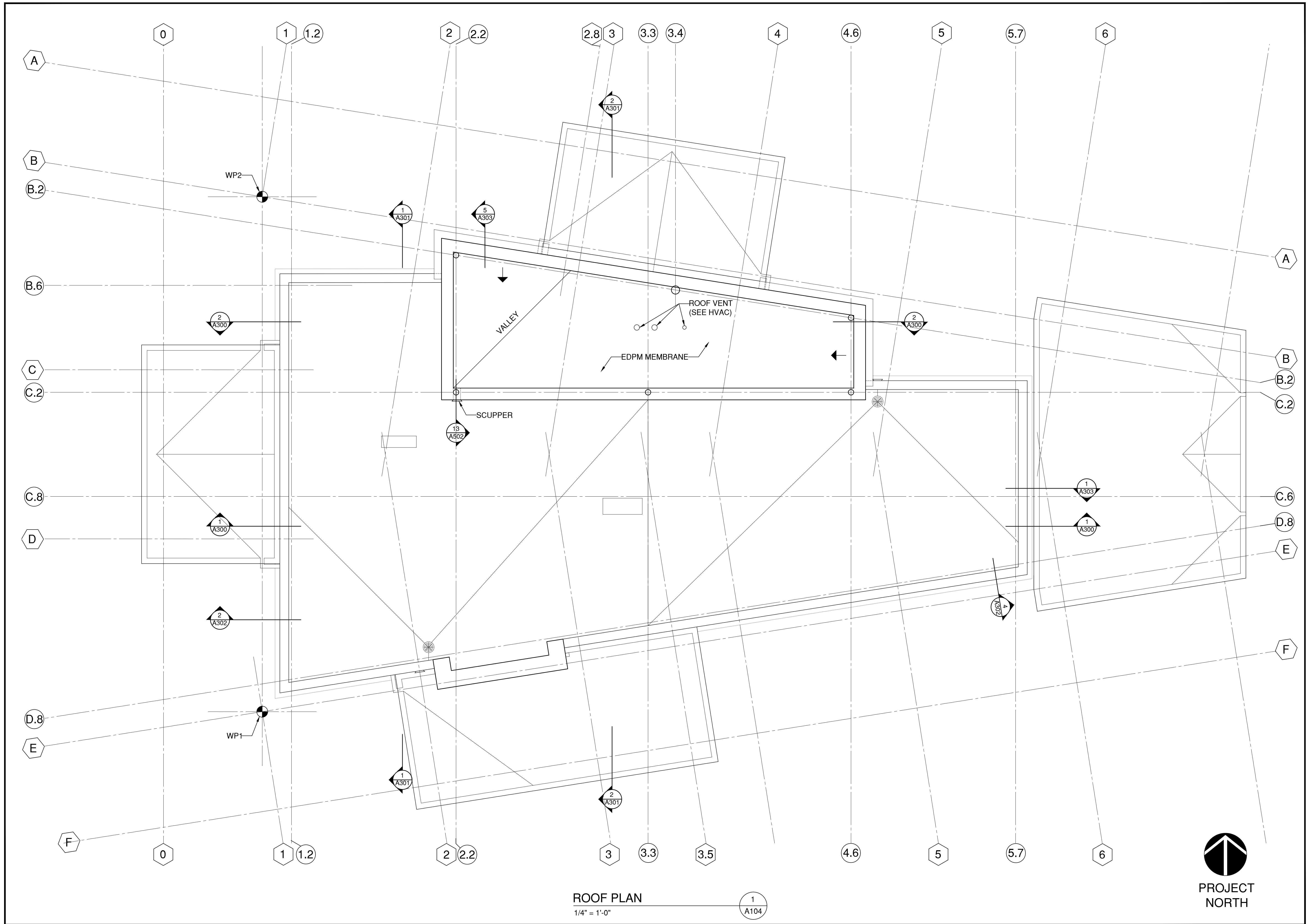
ROOF PLAN

PROJ. NUMBER:	DRAWN BY:
2020115	AG
REV.	DATE

CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME

DATE:
MAY 12, 2021

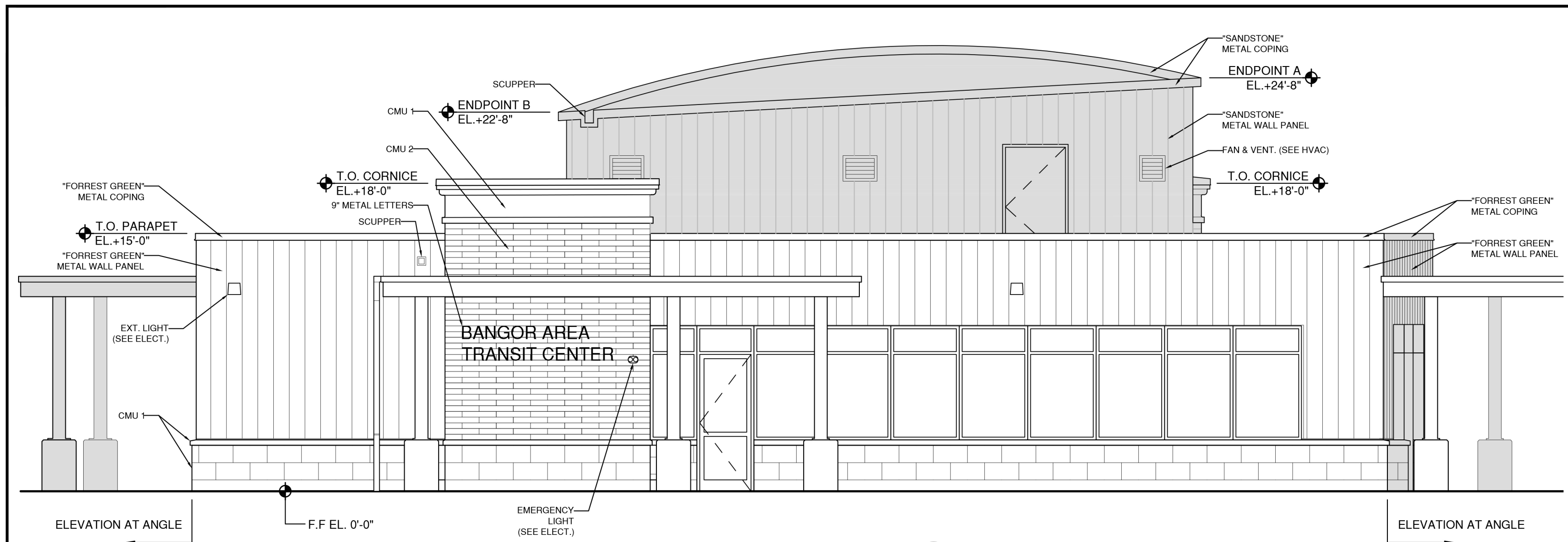
A104



ROOF PLAN
1/4" = 1'-0"

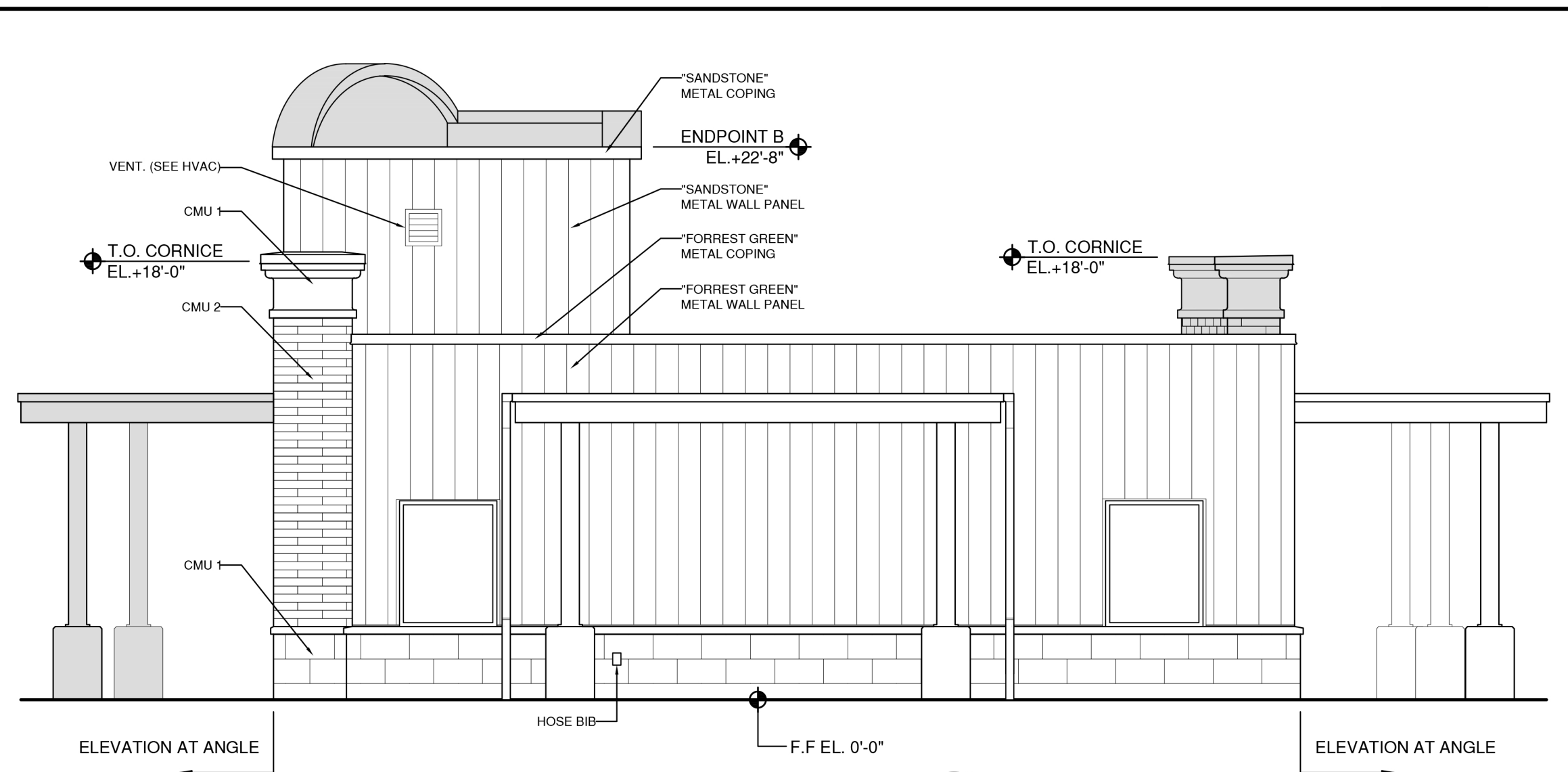
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A104





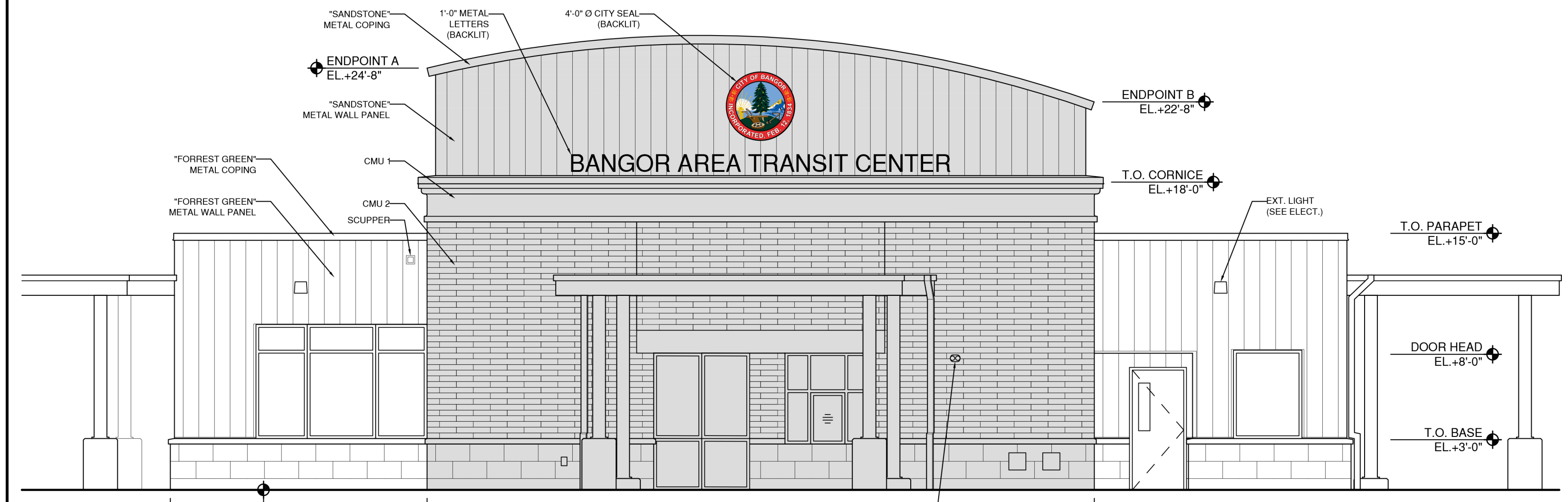
SOUTH ELEVATION

3/16" = 1'-0" 1 A200



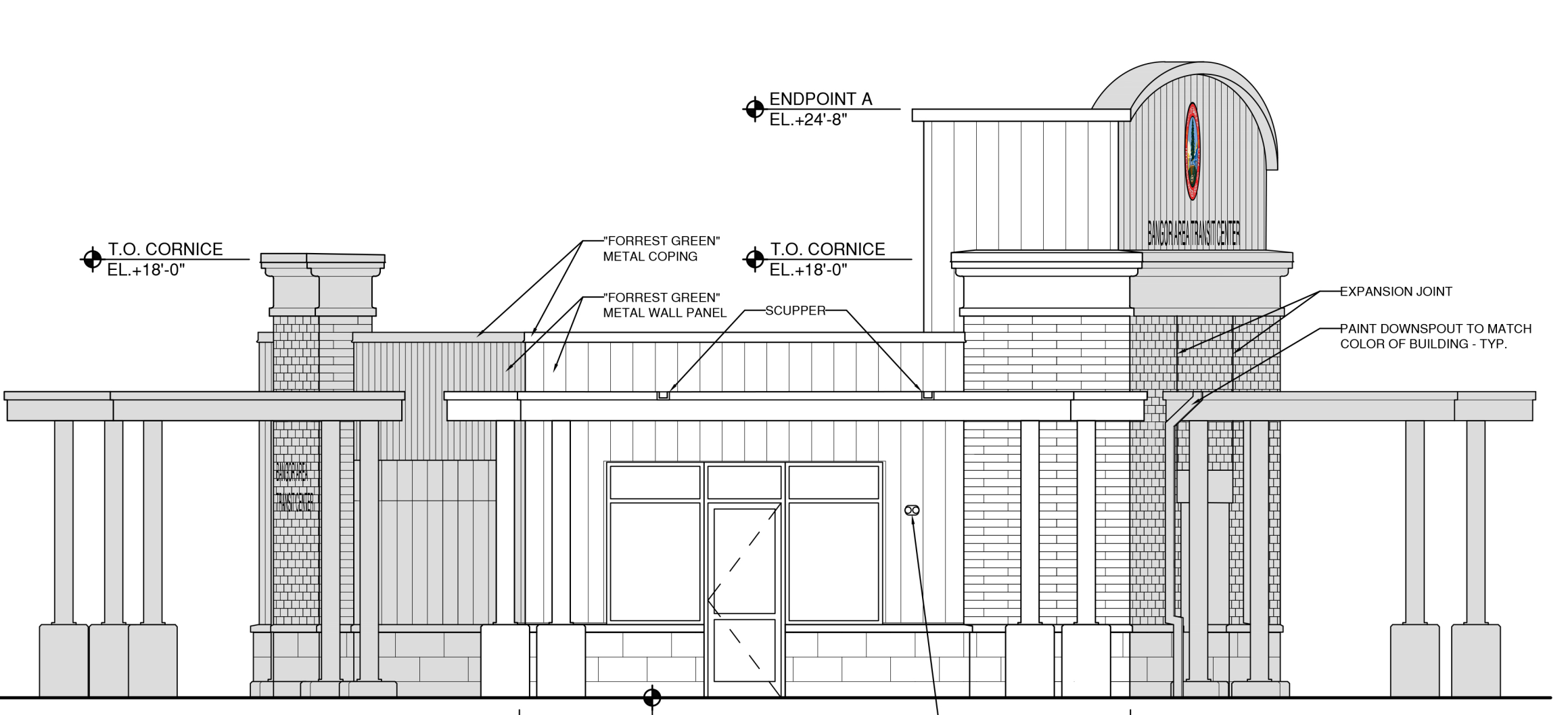
WEST ELEVATION

3/16" = 1'-0" 2 A200



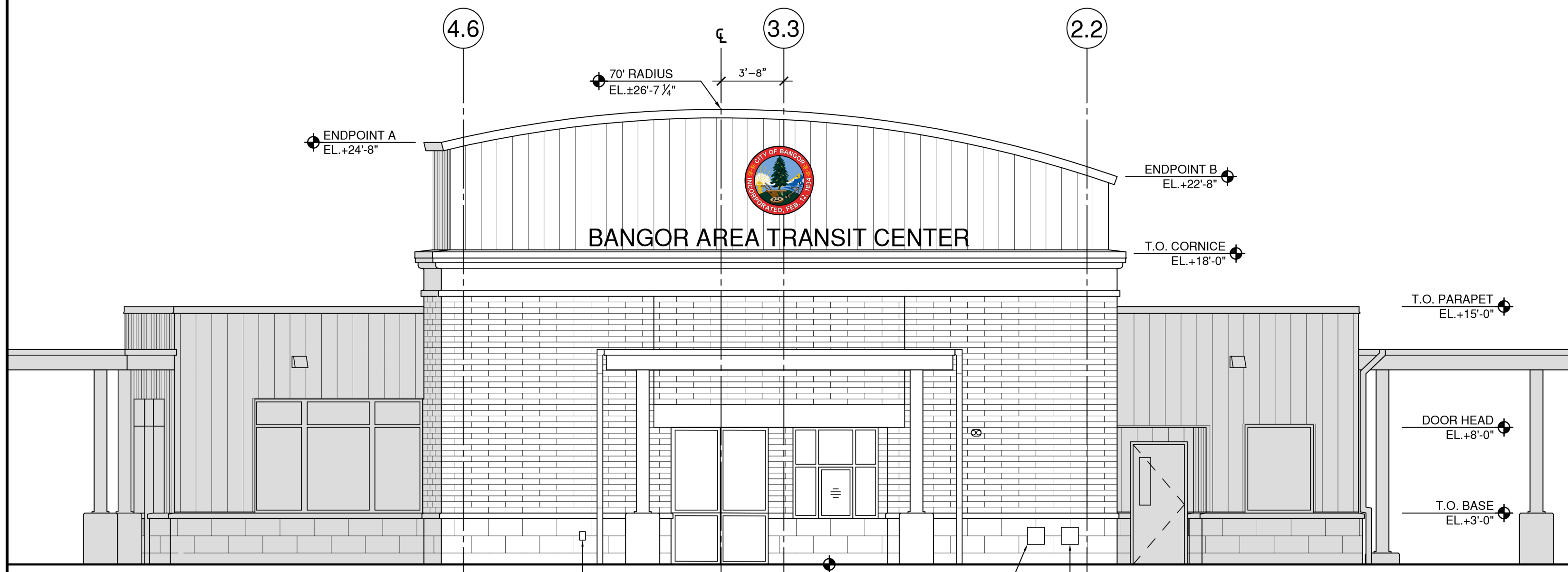
NORTH ELEVATION

3/16" = 1'-0" 3 A200



EAST ELEVATION

3/16" = 1'-0" 4 A200



NORTH ELEVATION

3/16" = 1'-0" 5 A200



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EXTERIOR ELEVATIONS

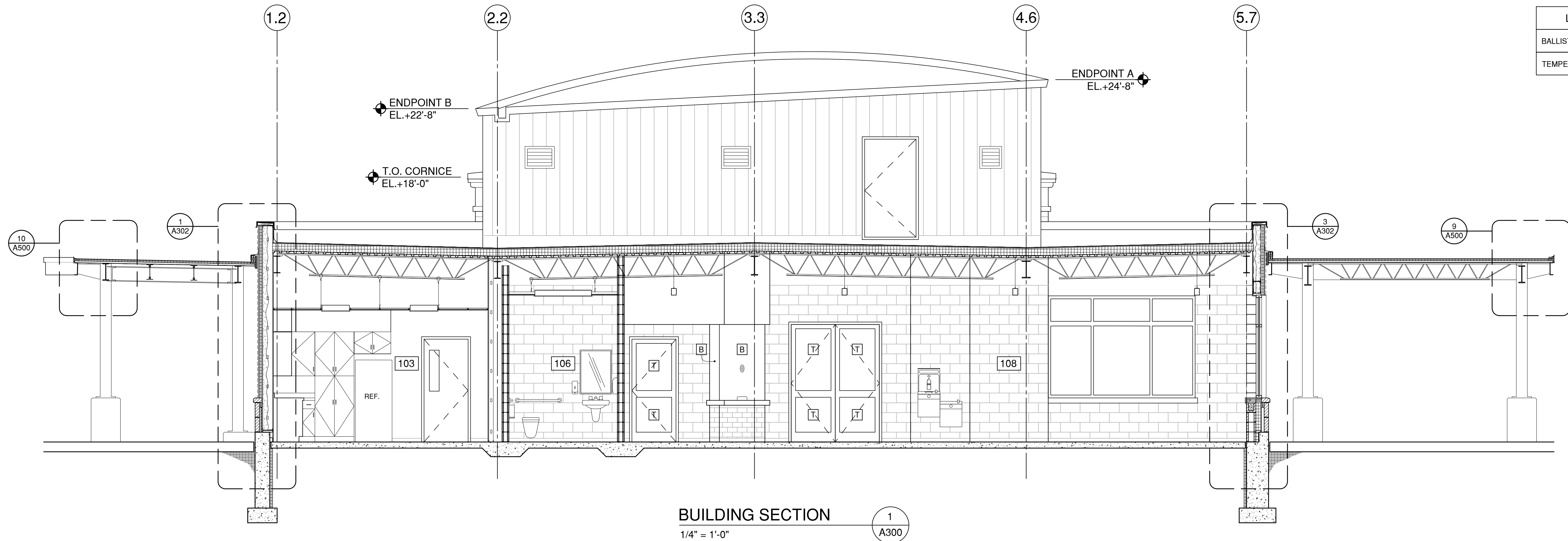
PROJ. NUMBER:	DRAWN BY:	AG	DESCRIPTION
2020115			
REV.	DATE		

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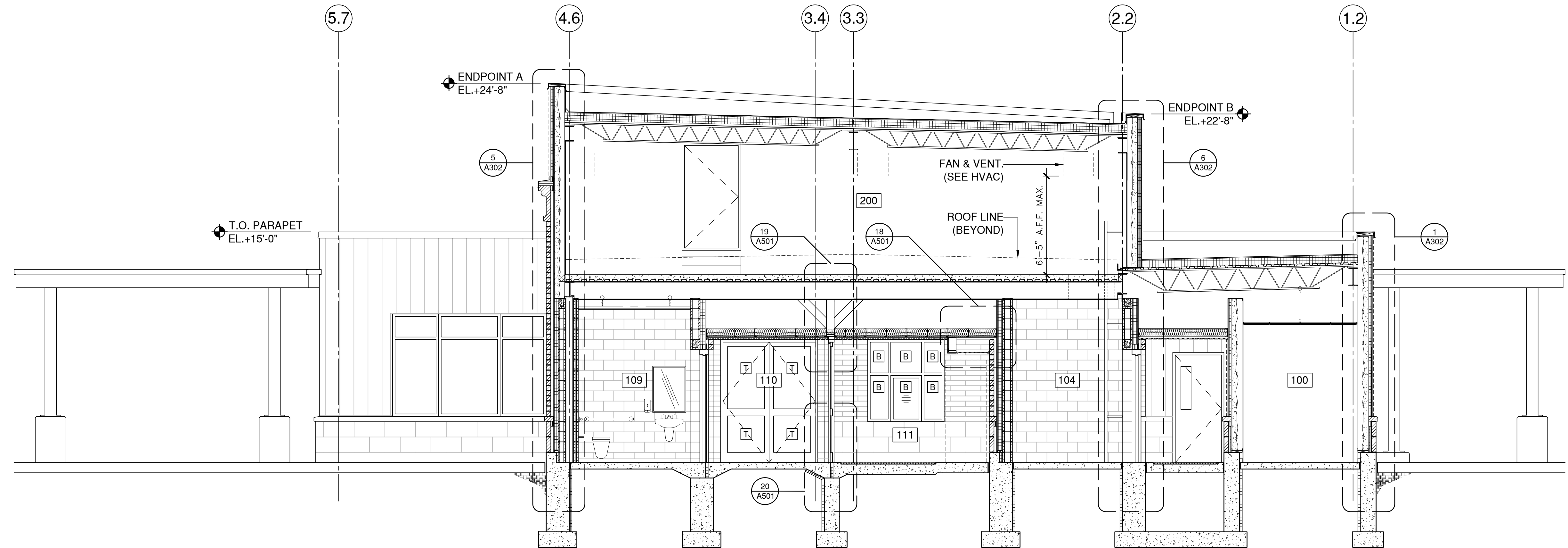
DATE: MAY 12, 2021

A200

LEGEND	
BALLISTIC GLASS	B
TEMPERED GLASS	T



BUILDING SECTION
1/4" = 1'-0" 1 A300



BUILDING SECTION
1/4" = 1'-0" 2 ENTRY 111 A300

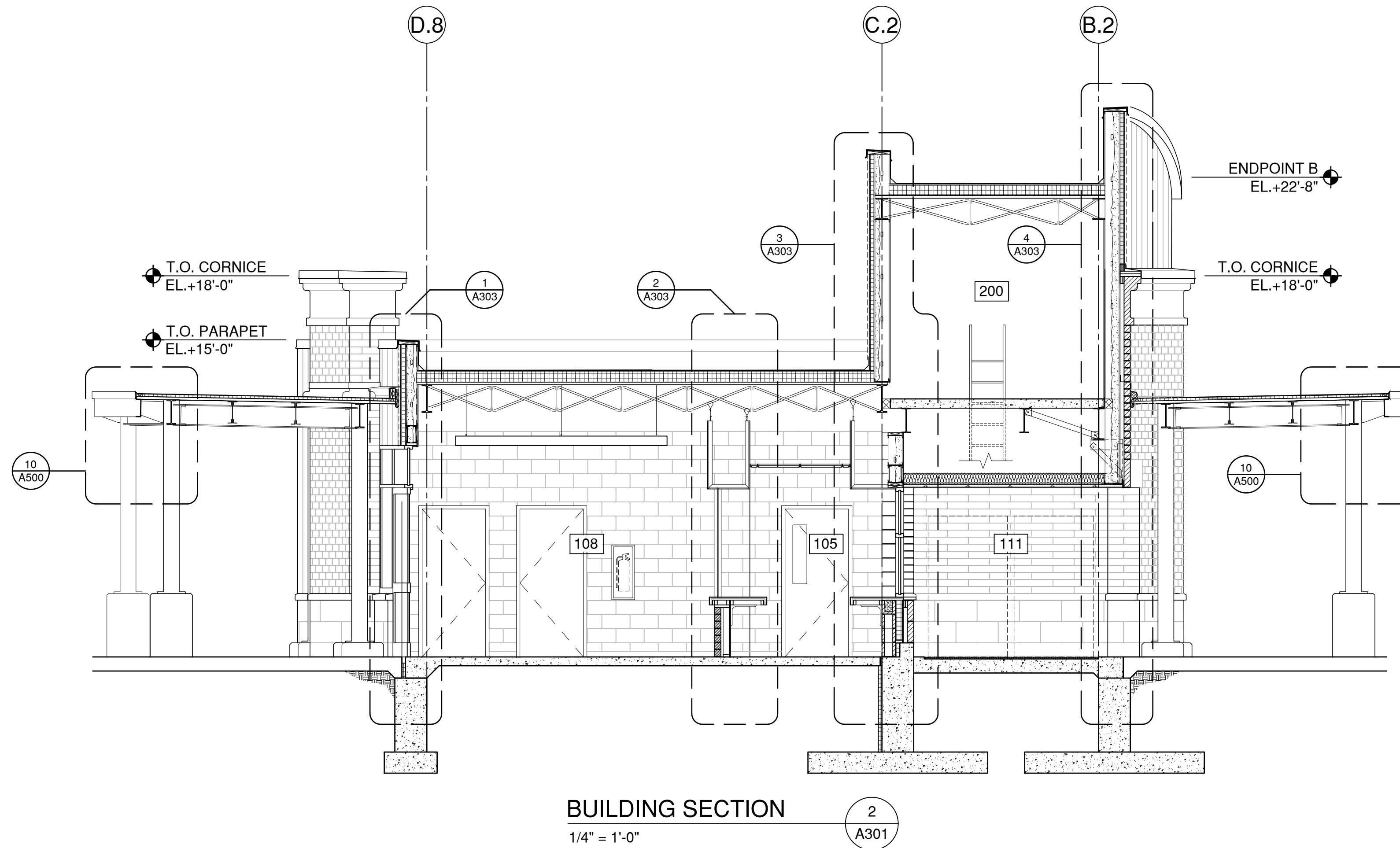
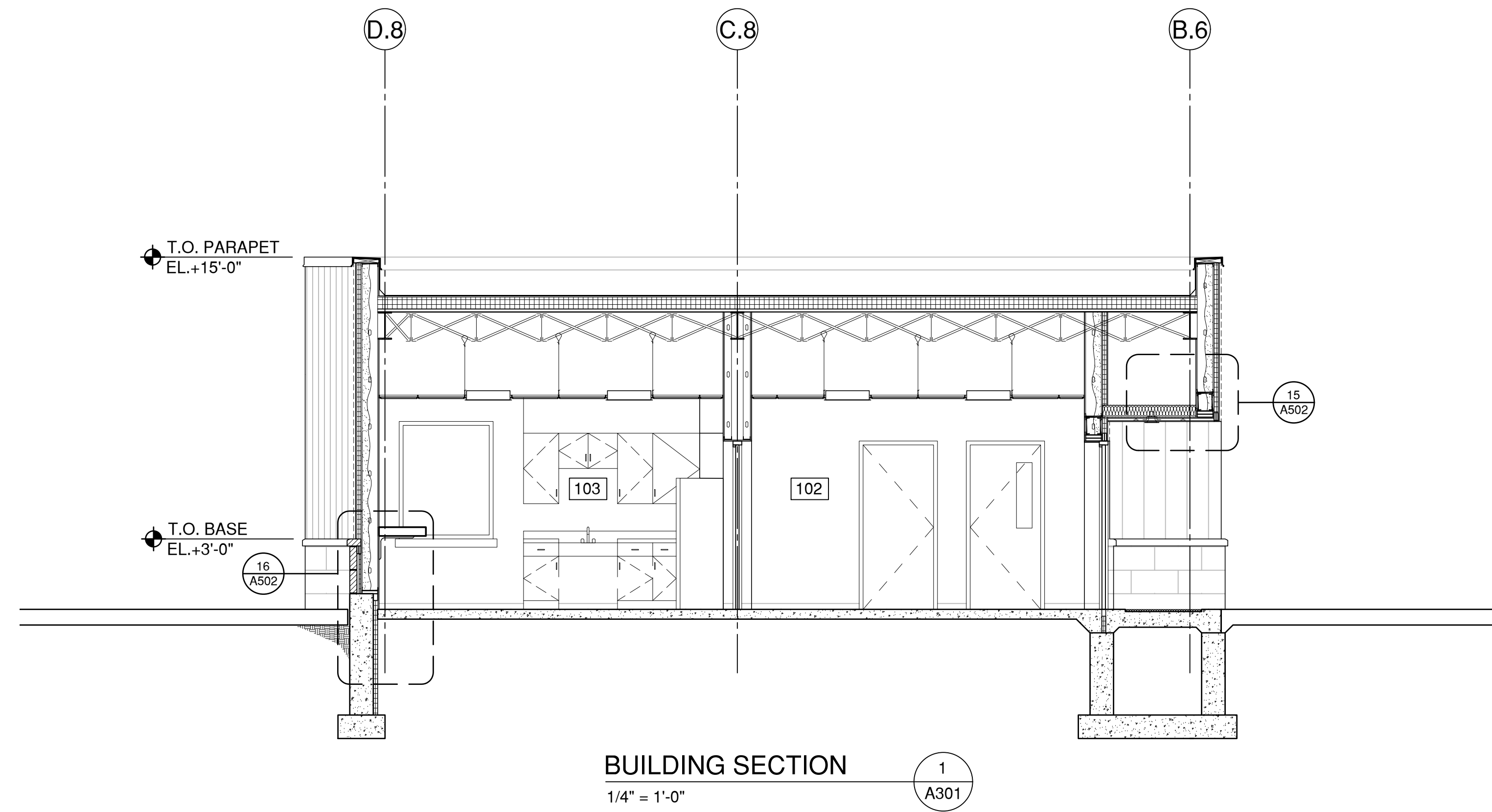
BUILDING SECTIONS

PROJ. NUMBER:	DRAWN BY:	AG
2020115	AG	
REV.	DATE	DESCRIPTION

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DATE:
MAY 12, 2021

A300



BUILDING SECTIONS

PROJ. NUMBER:	DRAWN BY:	
2020115	AG	
REV.	DATE	DESCRIPTION

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DATE:
MAY 12, 2021

A301

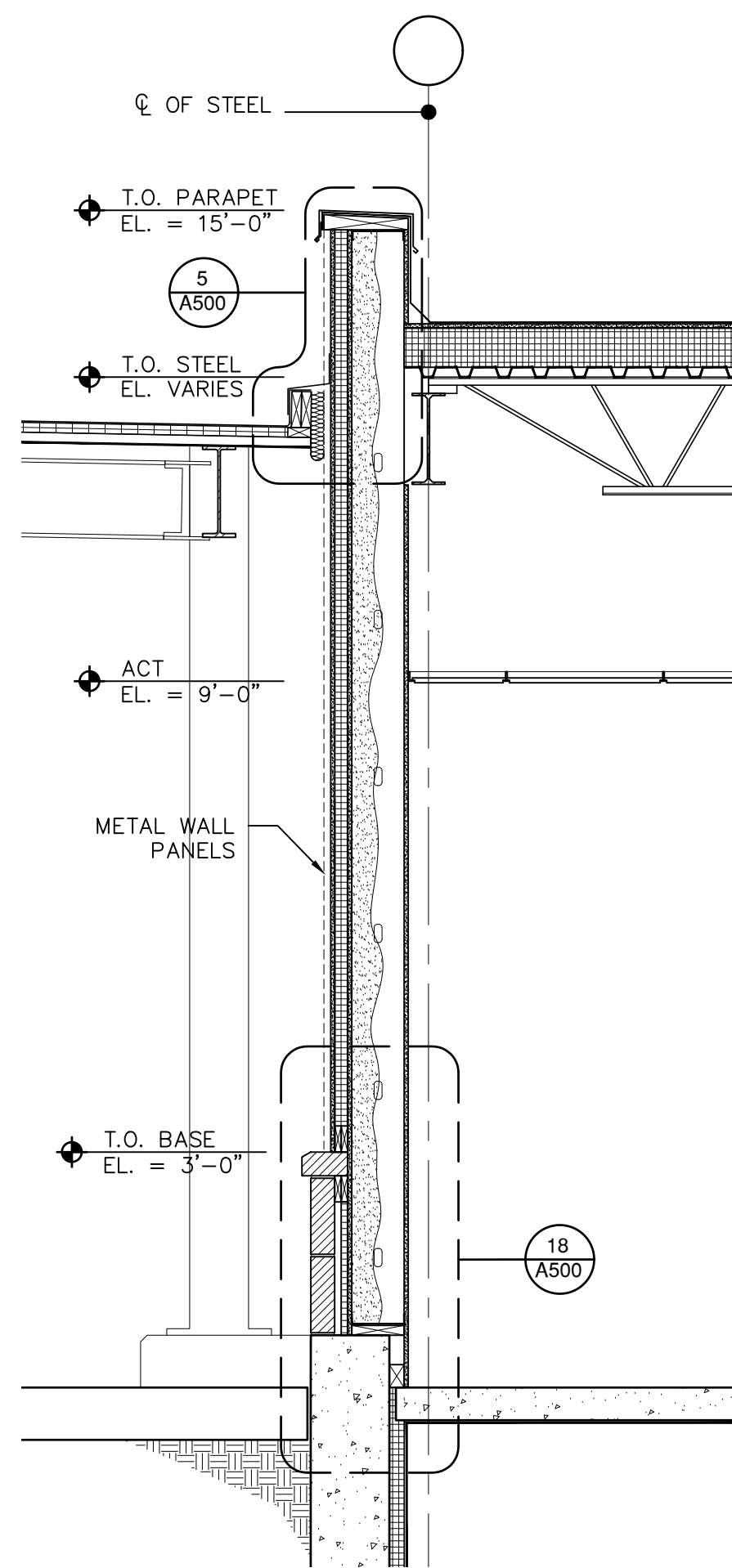
WALL SECTIONS

PROJ. NUMBER:	2020115
DATE:	
DRAWN BY:	AG
DESCRIPTION:	

CITY OF BANGOR
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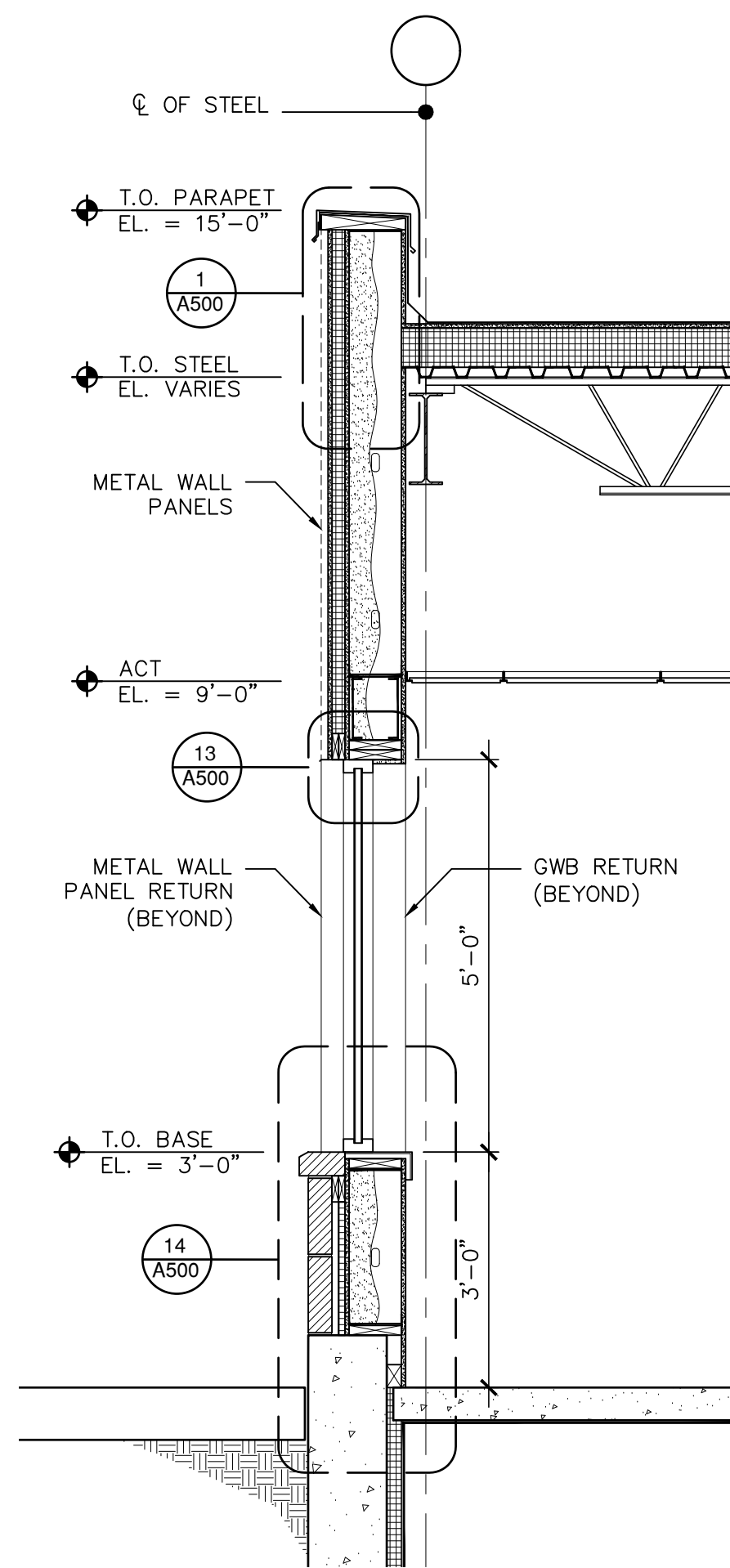
DATE:
MAY 12, 2021

A302



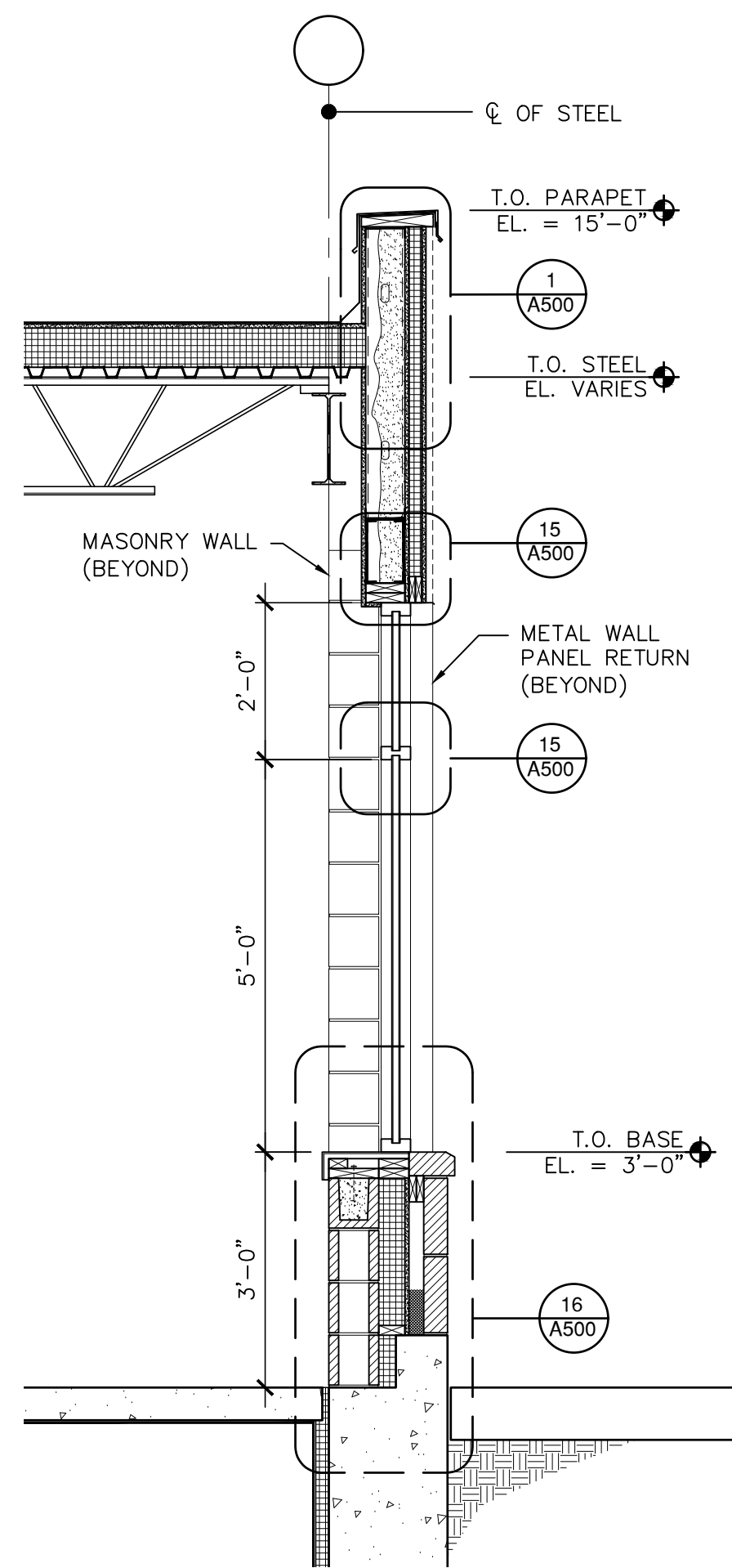
WALL SECTION
1/2" = 1'-0"

1
A302



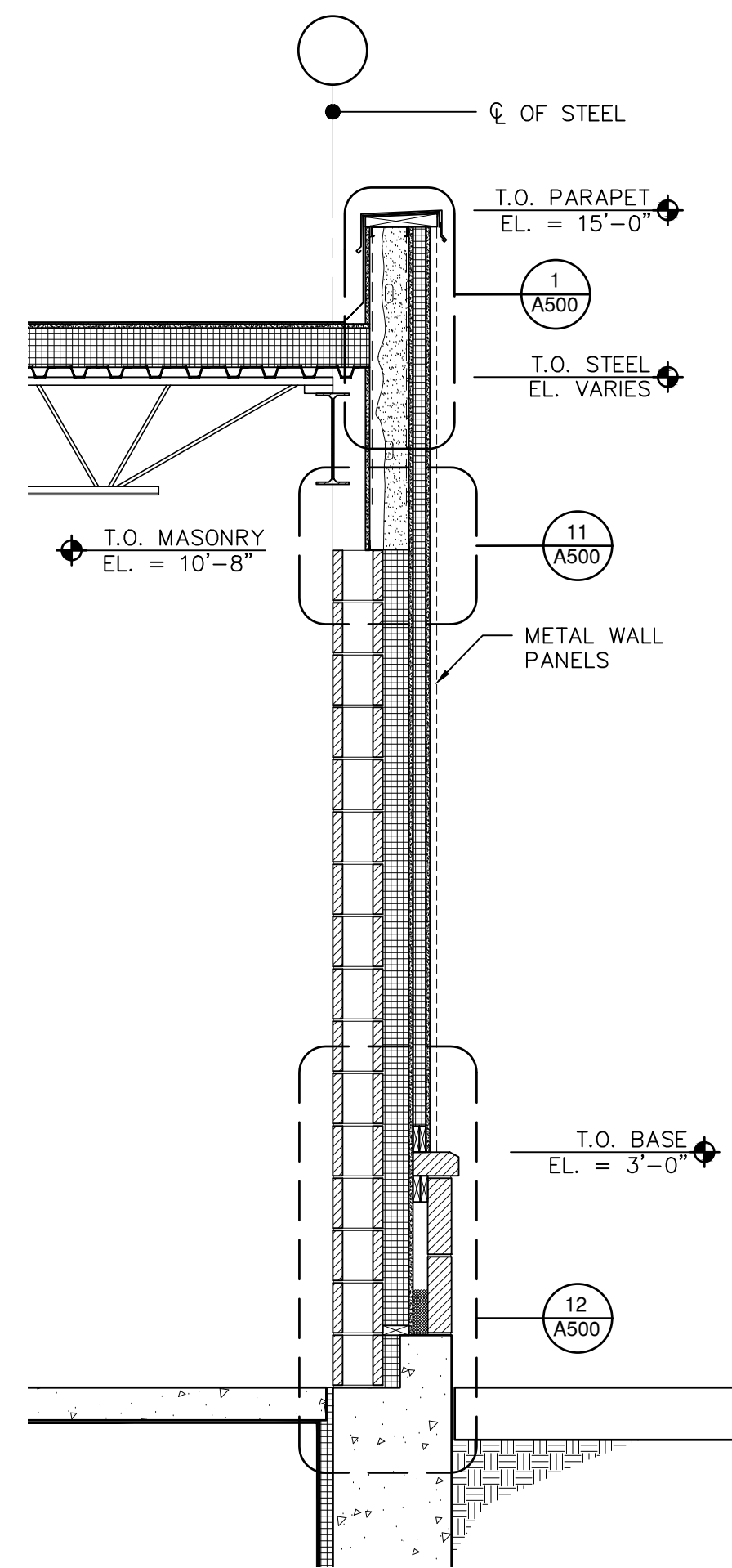
WALL SECTION
1/2" = 1'-0"

2
A302



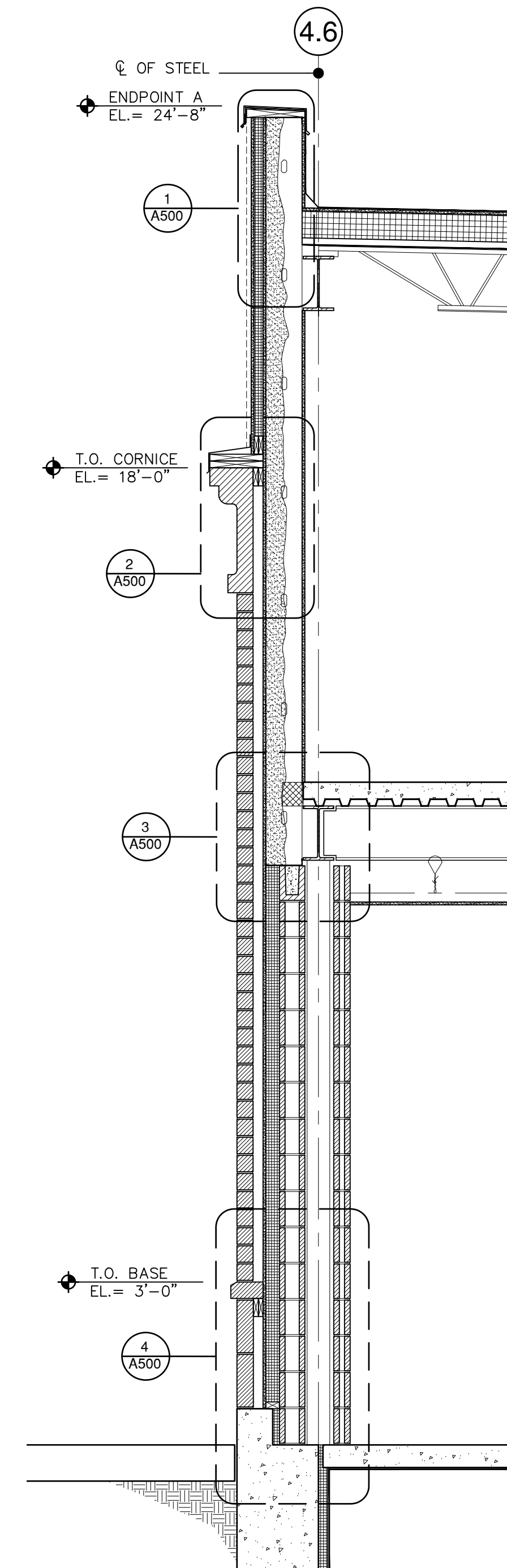
WALL SECTION
1/2" = 1'-0"

3
A302



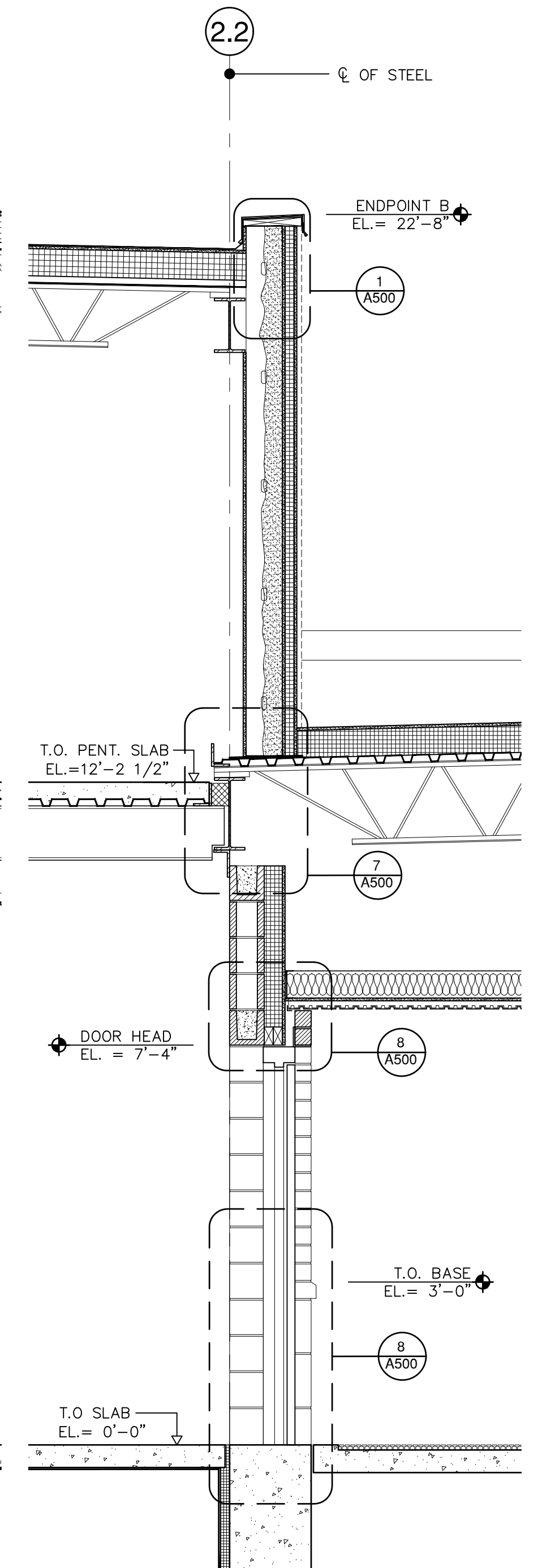
WALL SECTION
1/2" = 1'-0"

4
A302



WALL SECTION
1/2" = 1'-0"

5
A302



WALL SECTION
1/2" = 1'-0"

6
A302

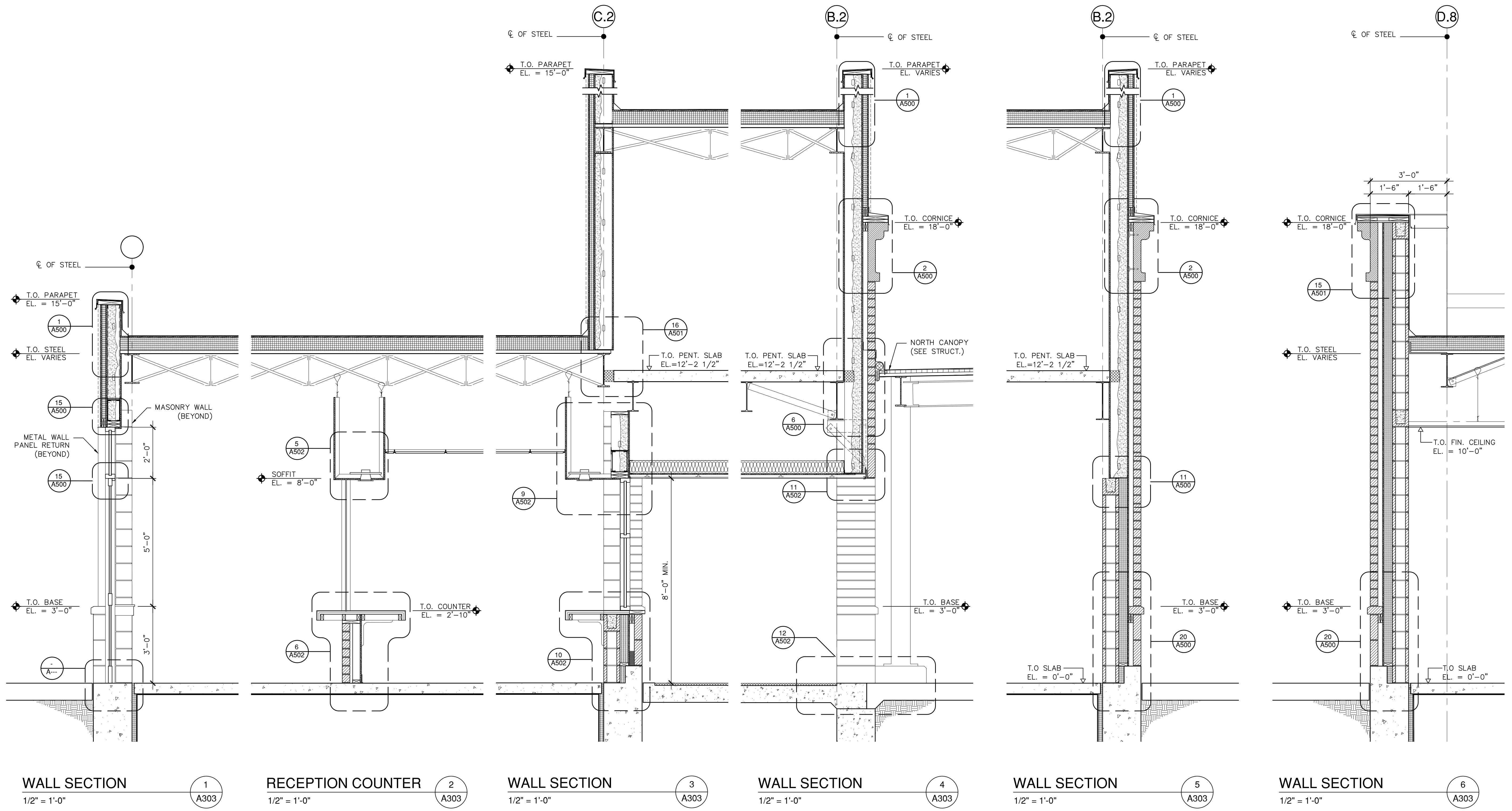
WALL SECTIONS

PROJ. NUMBER:	2020115
REV.	AG
DATE	DESCRIPTION

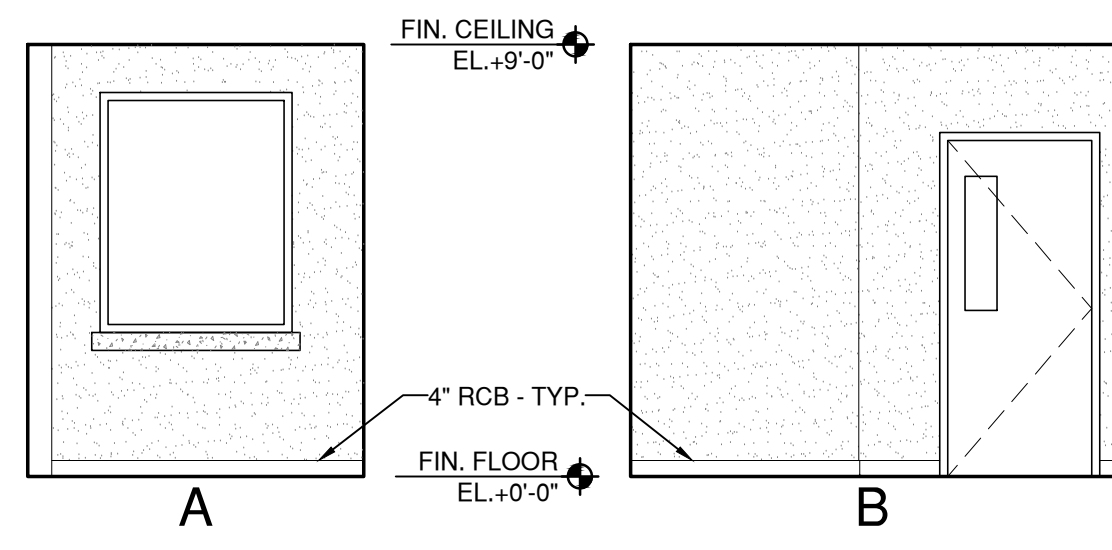
CITY OF BANGOR
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DATE:
MAY 12, 2021

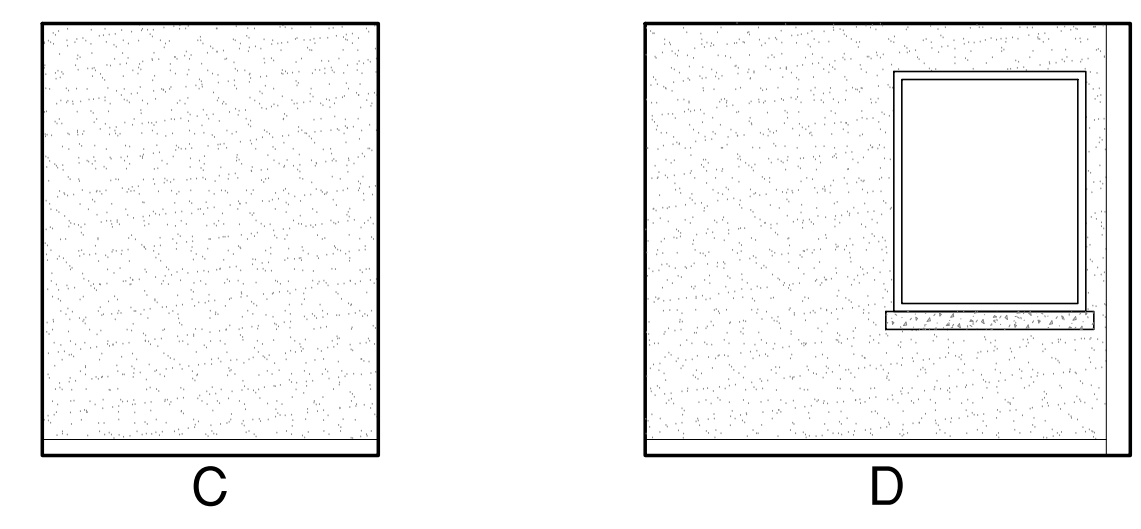
A303



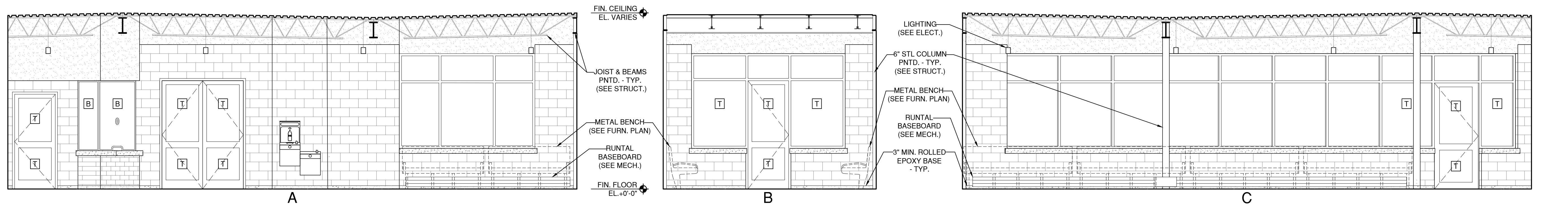
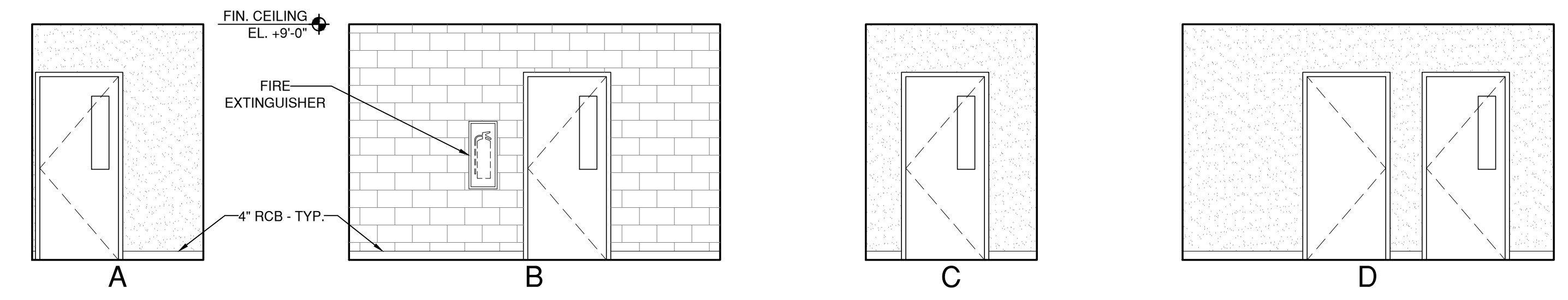
LEGEND	
BALLISTIC GLASS	B
TEMPERED GLASS	T



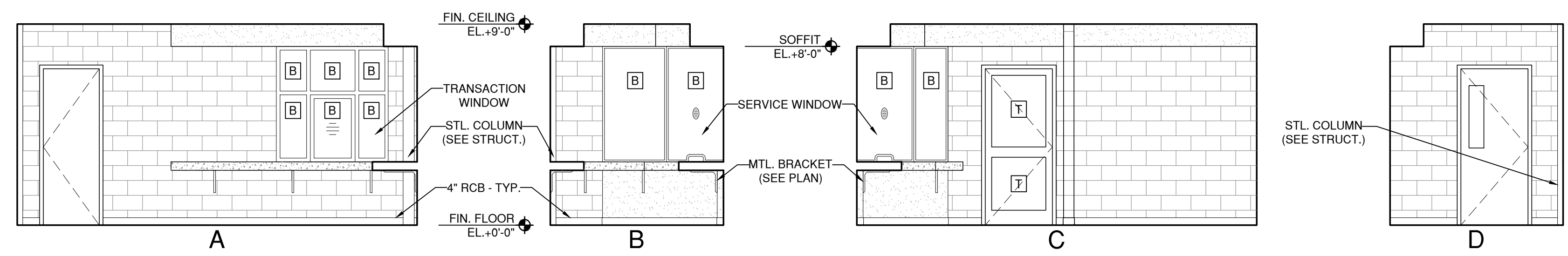
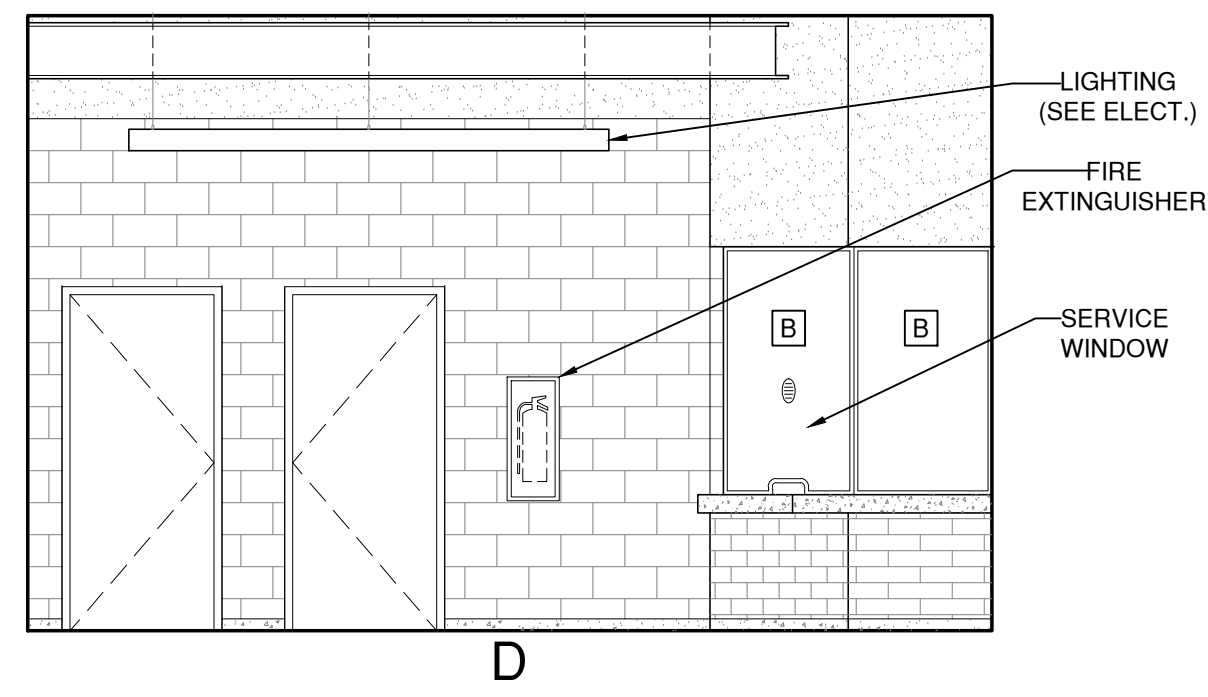
TOILET 101 1
1/4" = 1'-0" A402



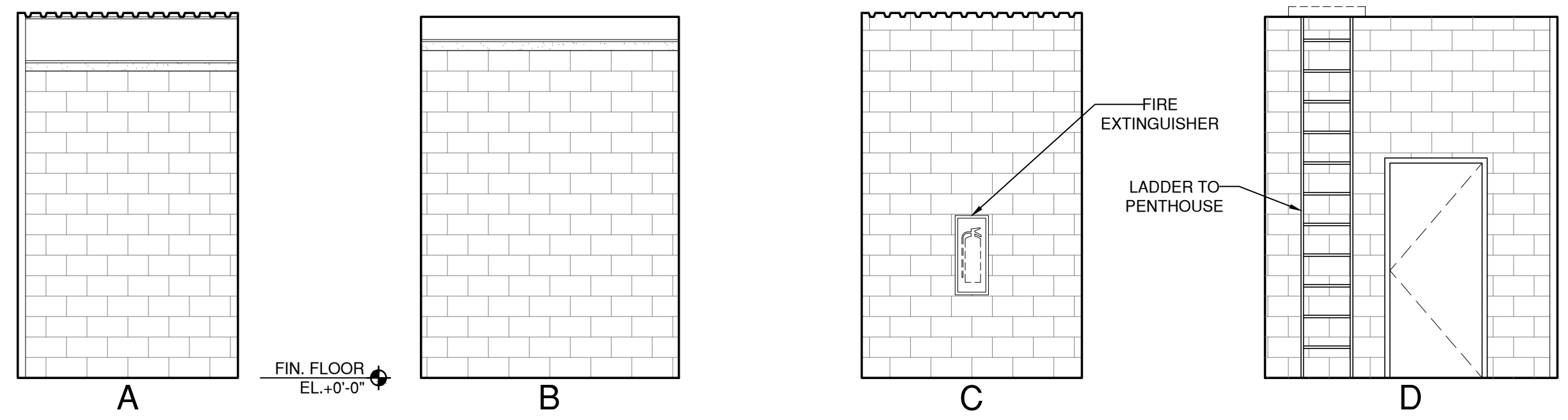
CORR. 102 2
1/4" = 1'-0" A402



WAITING AREA 108 3
1/4" = 1'-0" A402



ADMIN 105 4
1/4" = 1'-0" A402



MECH. 104 5
1/4" = 1'-0" A402



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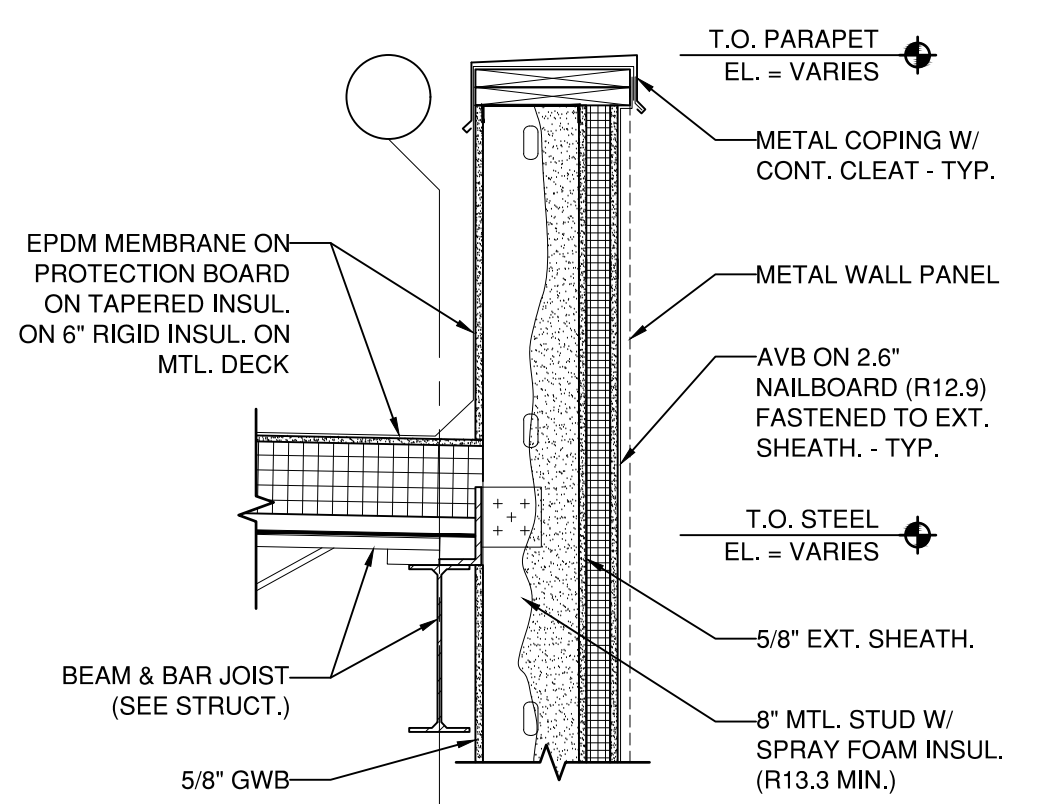
INTERIOR ELEVATIONS

PROJ. NUMBER:	DRAWN BY:	AG
2020115		
REV.	DATE	DESCRIPTION

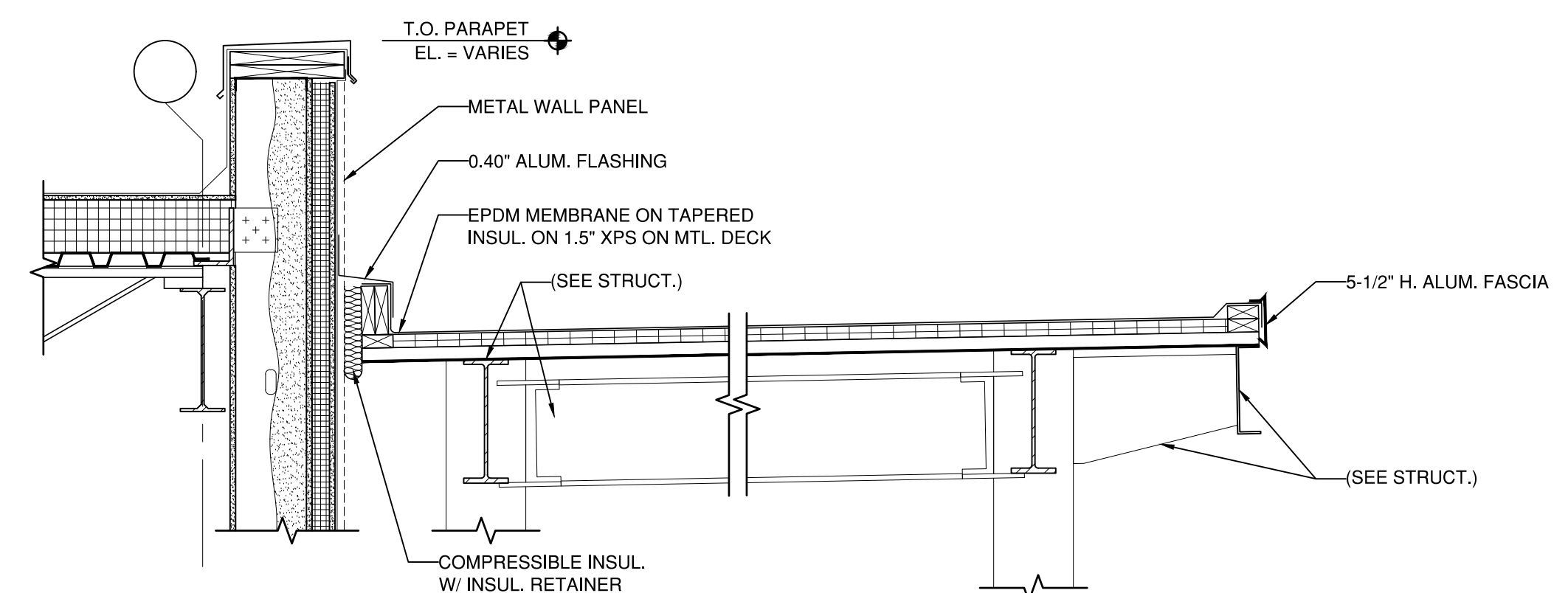
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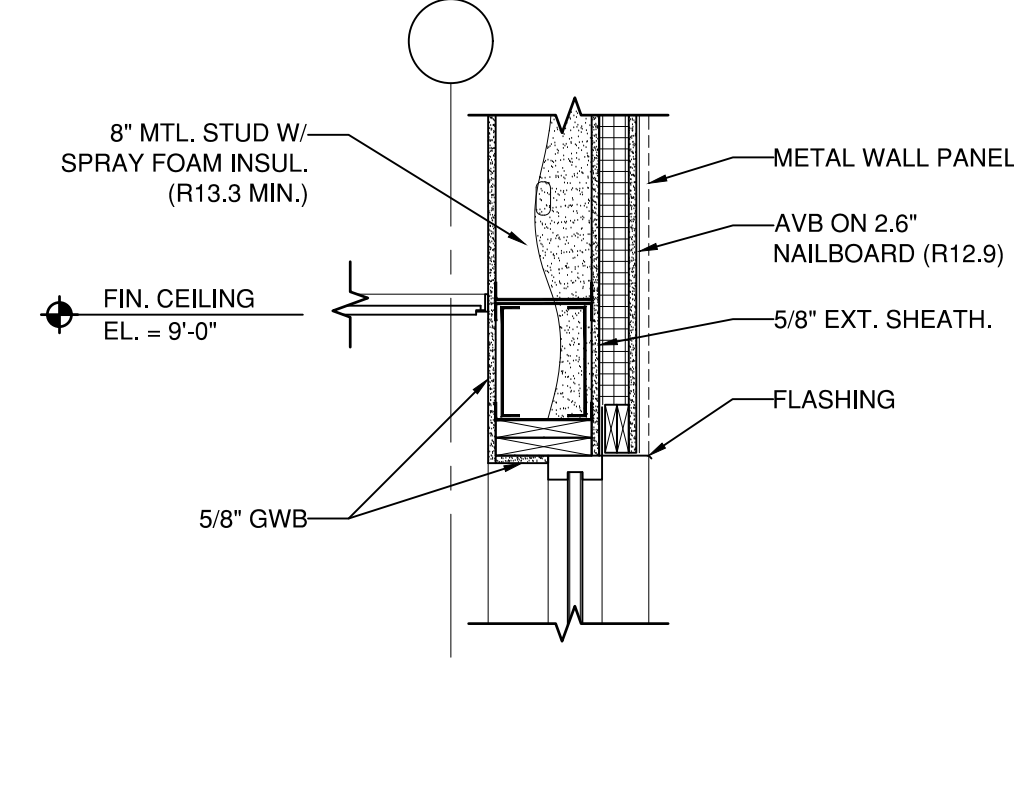
A402



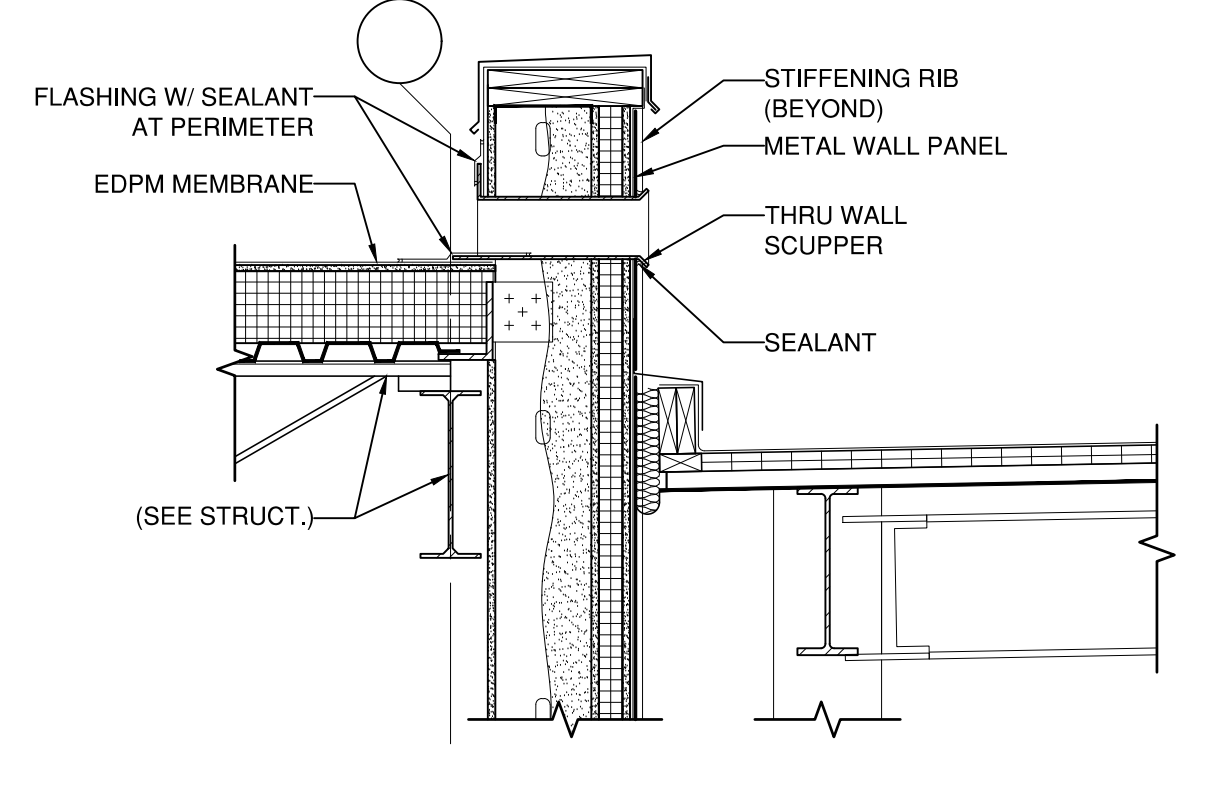
PARAPET - TYP. 1
3/4" = 1'-0" A500



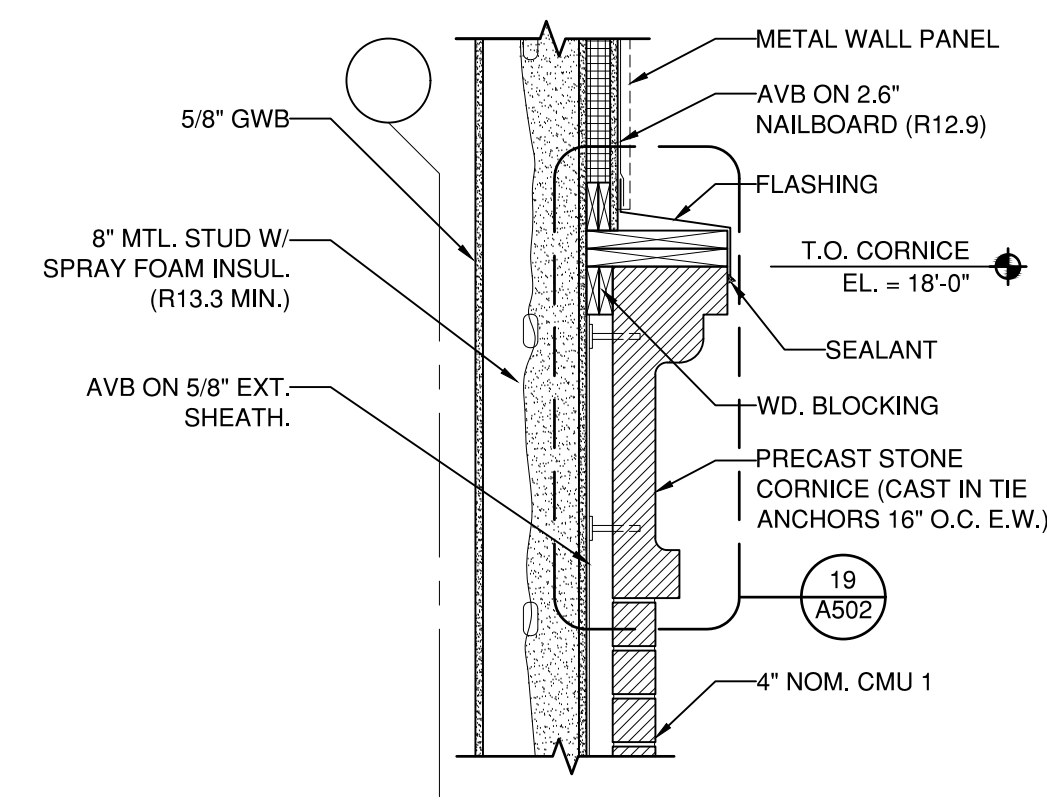
CANOPY DETAIL 5
3/4" = 1'-0" A500



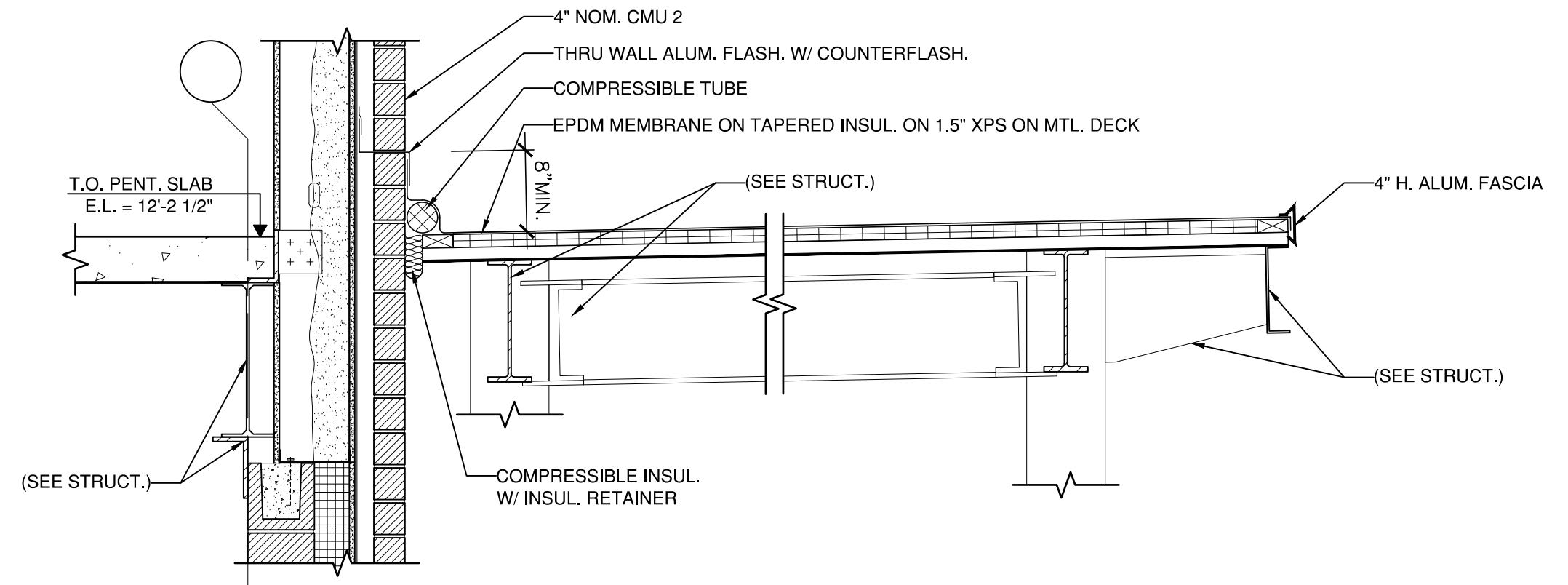
WINDOW HEAD 13
3/4" = 1'-0" A500



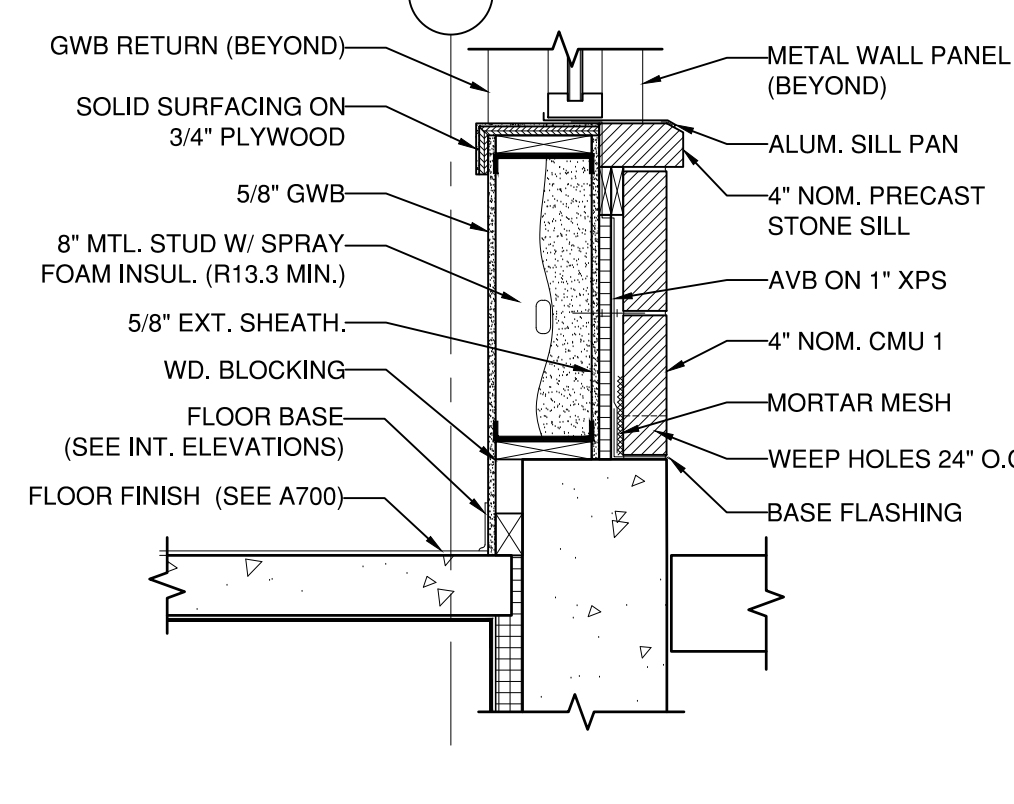
SCUPPER - TYP. 17
3/4" = 1'-0" A500



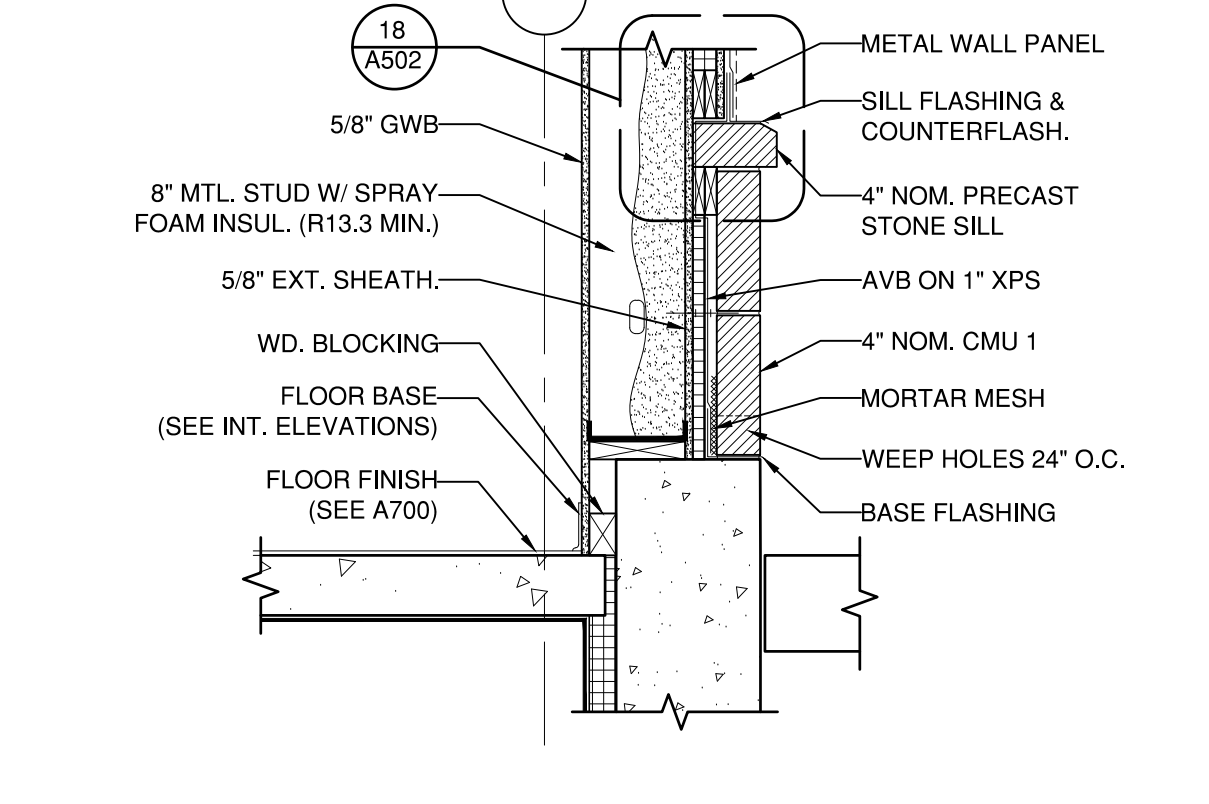
CORNICE DETAIL 2
3/4" = 1'-0" A500



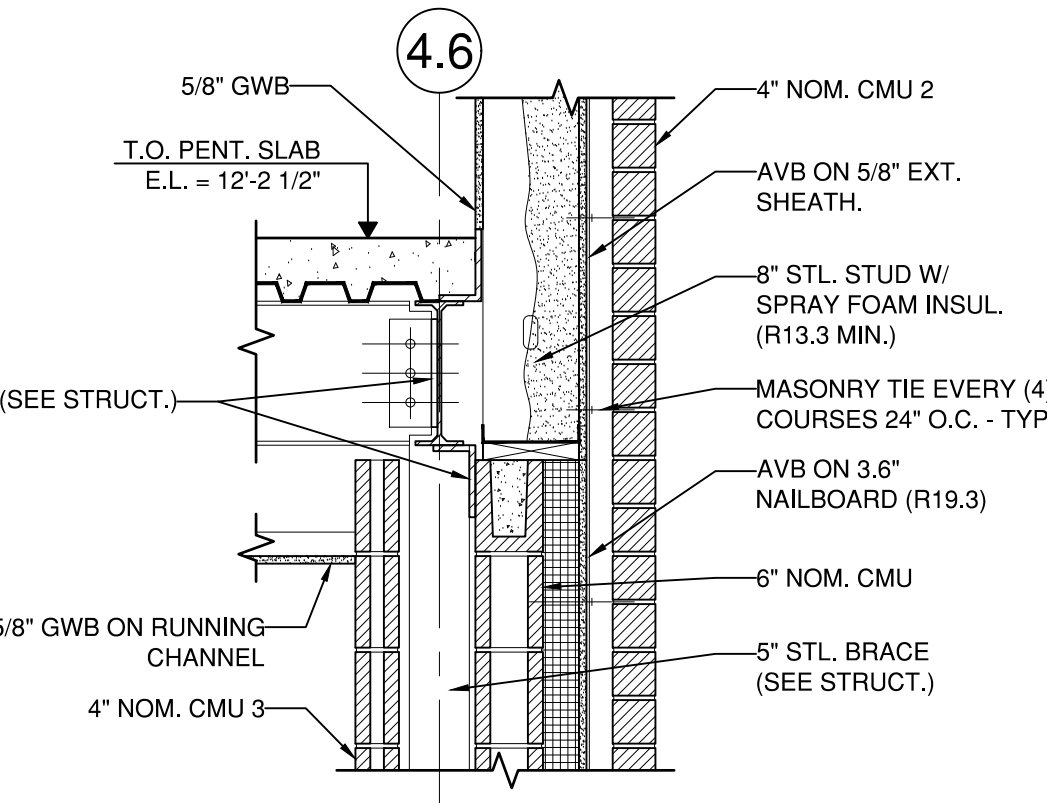
CANOPY DETAIL 6
3/4" = 1'-0" A500



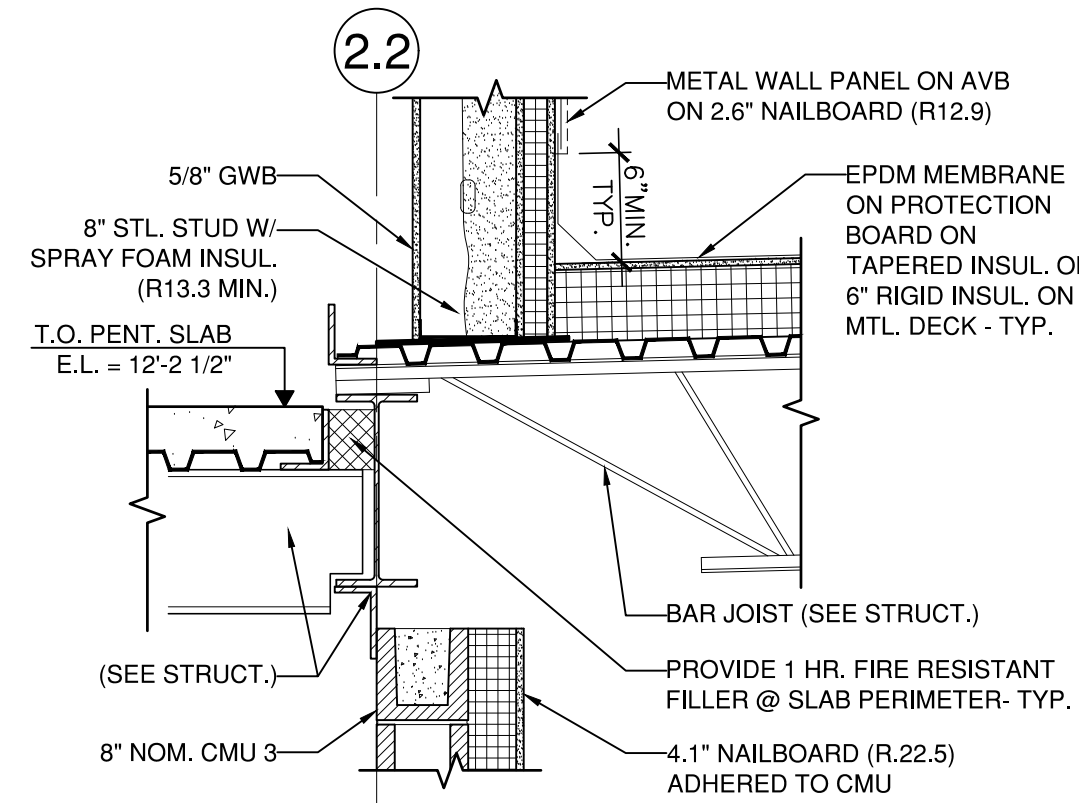
WALL BASE 14
3/4" = 1'-0" A500



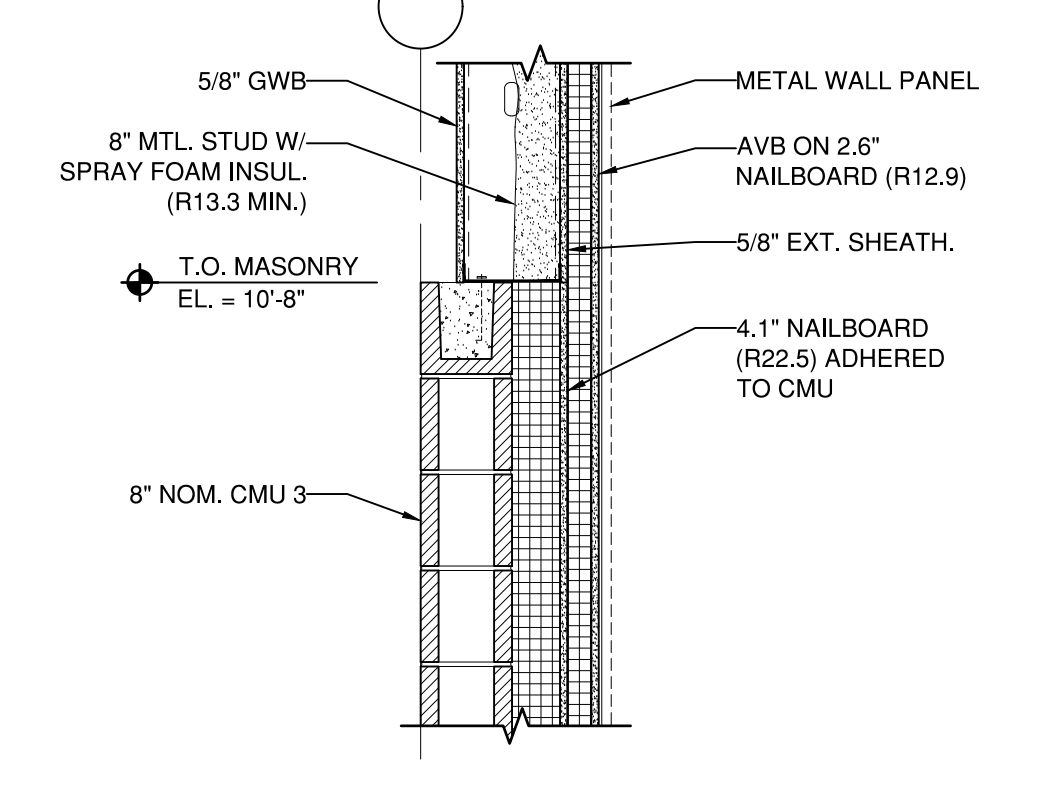
WALL BASE 18
3/4" = 1'-0" A500



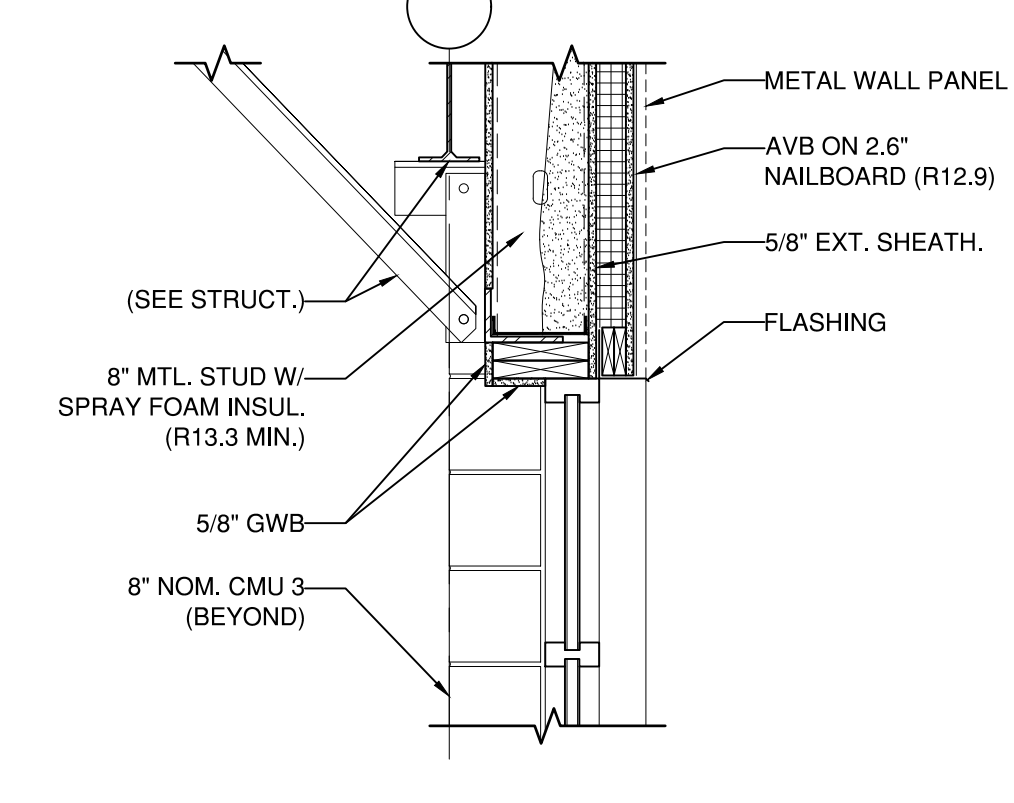
PENT. SLAB EAST 3
3/4" = 1'-0" A500



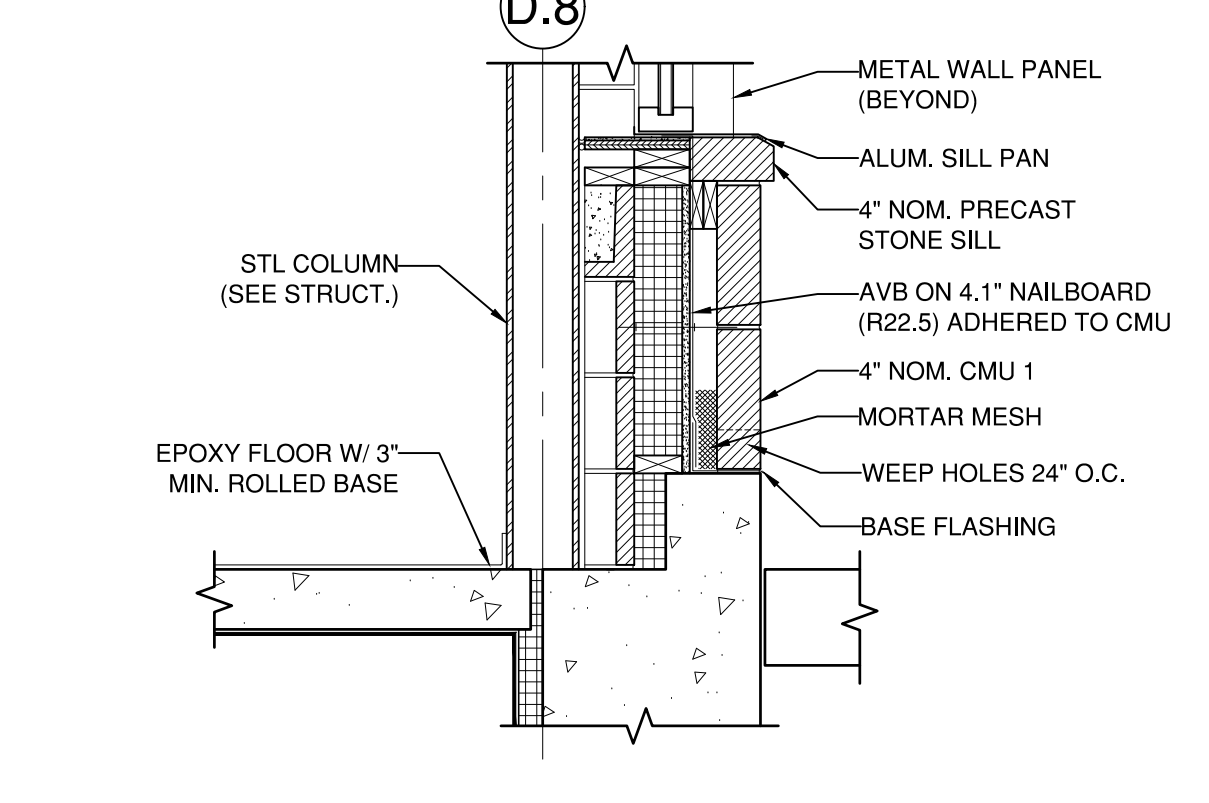
PENT. SLAB WEST 7
3/4" = 1'-0" A500



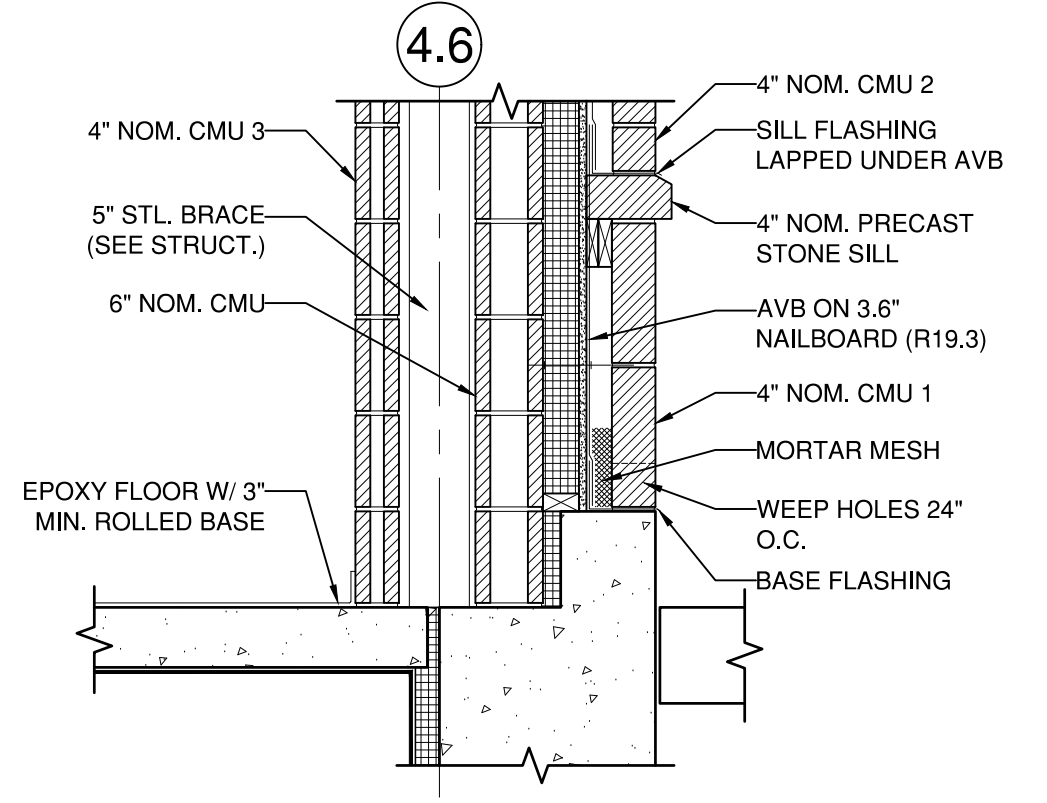
MASON. TO STUD 11
3/4" = 1'-0" A500



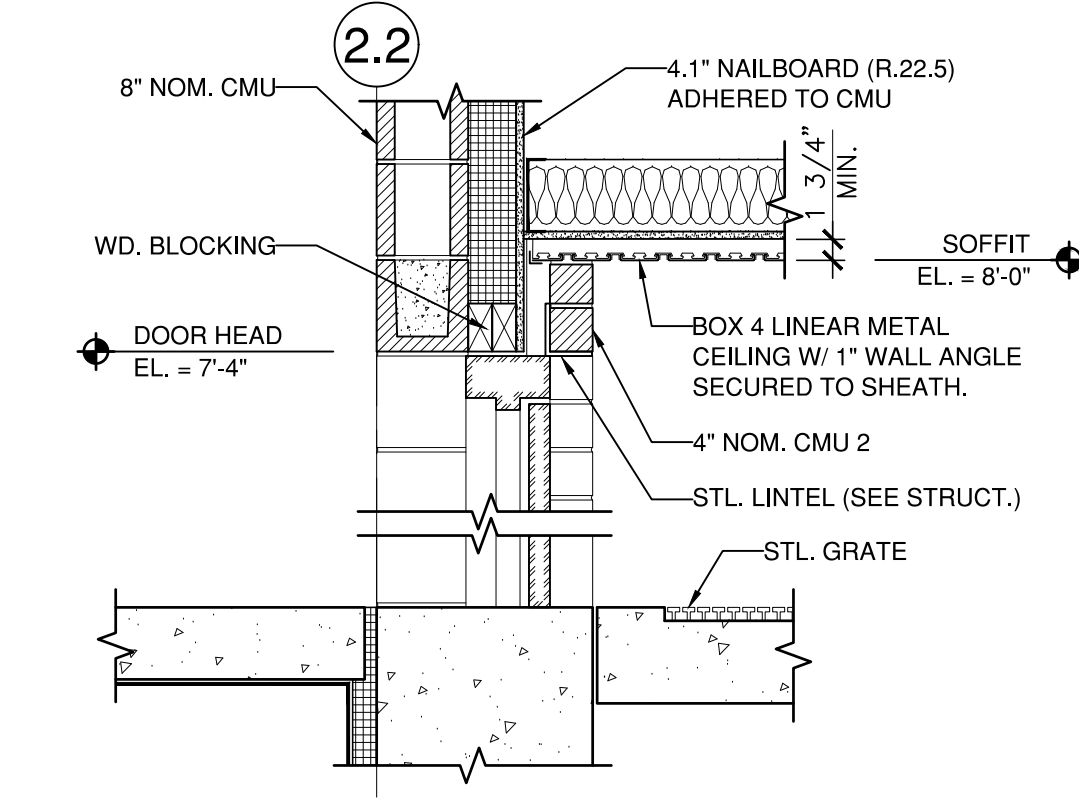
WINDOW HEAD 15
3/4" = 1'-0" A500



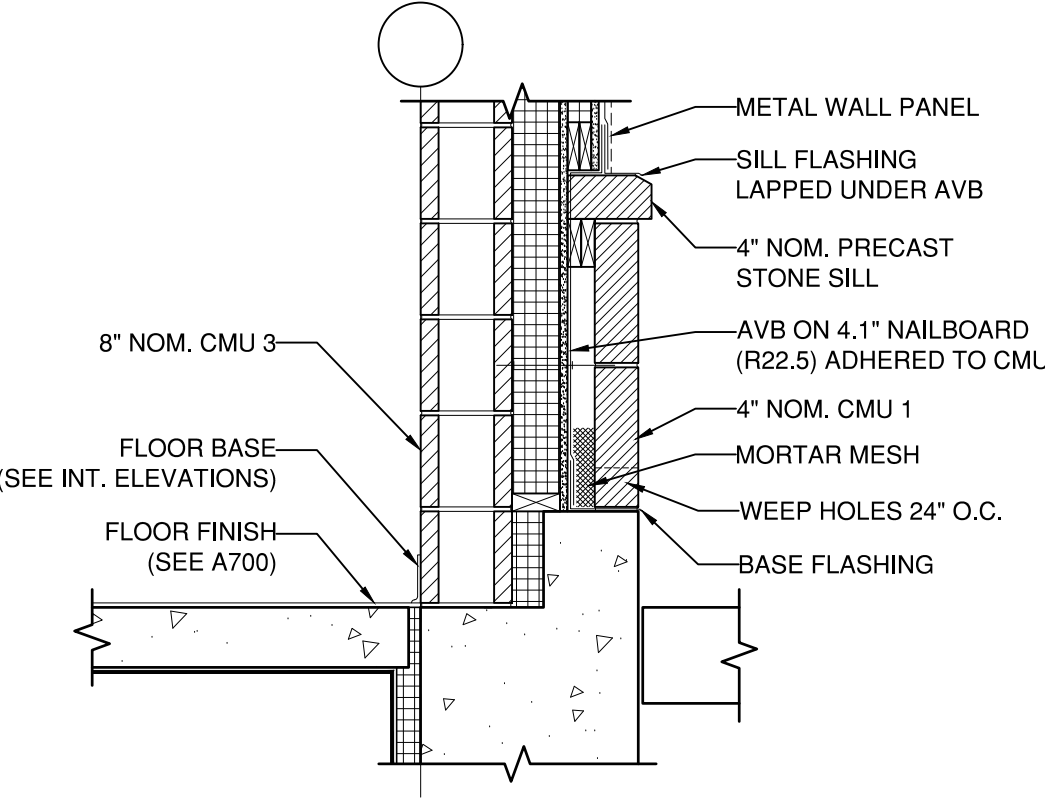
WALL BASE 19
3/4" = 1'-0" A500



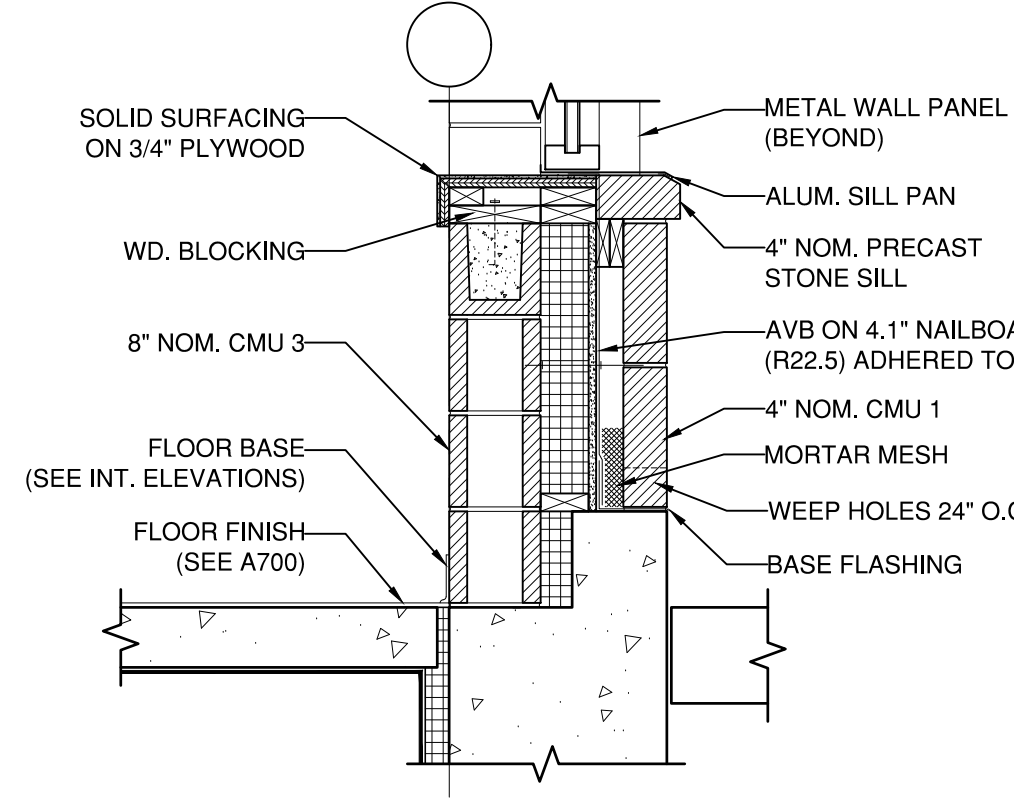
WALL BASE 4
3/4" = 1'-0" A500



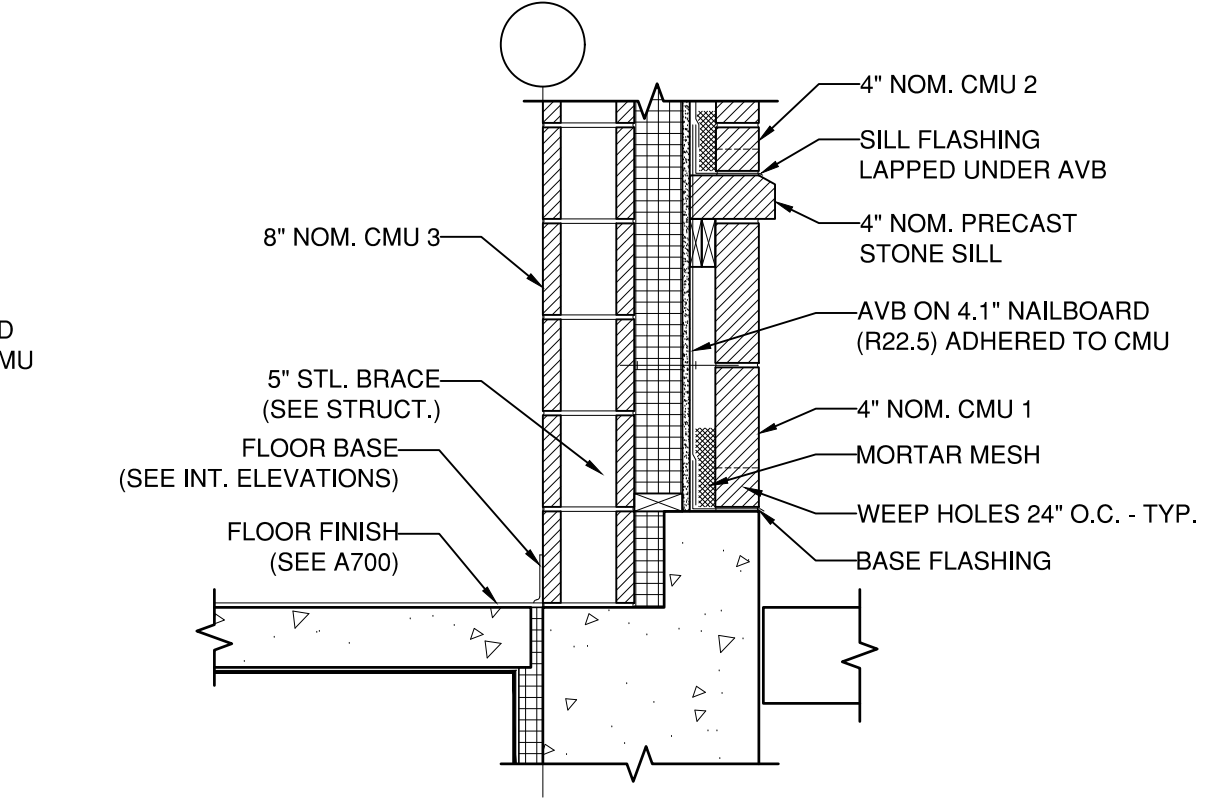
MECH. ENTRANCE 8
3/4" = 1'-0" A500



WALL BASE 12
3/4" = 1'-0" A500



WALL BASE 16
3/4" = 1'-0" A500



WALL BASE 20
3/4" = 1'-0" A500



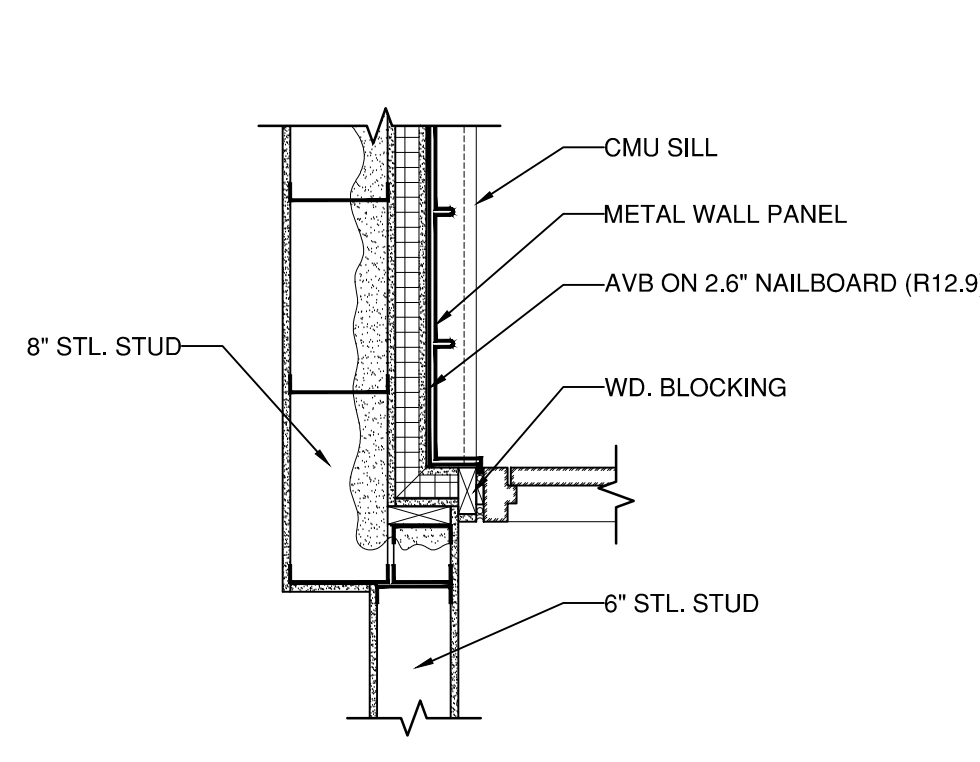
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WALL DETAILS	PROJ. NUMBER: 2020115	DRAWN BY: AG
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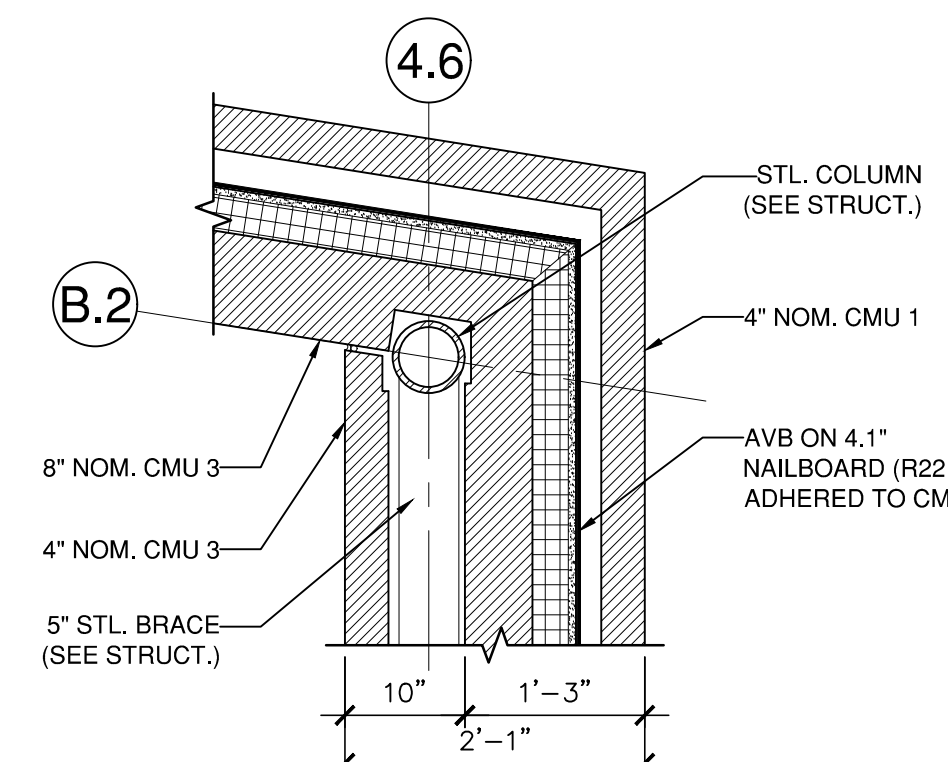
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DATE: MAY 12, 2021

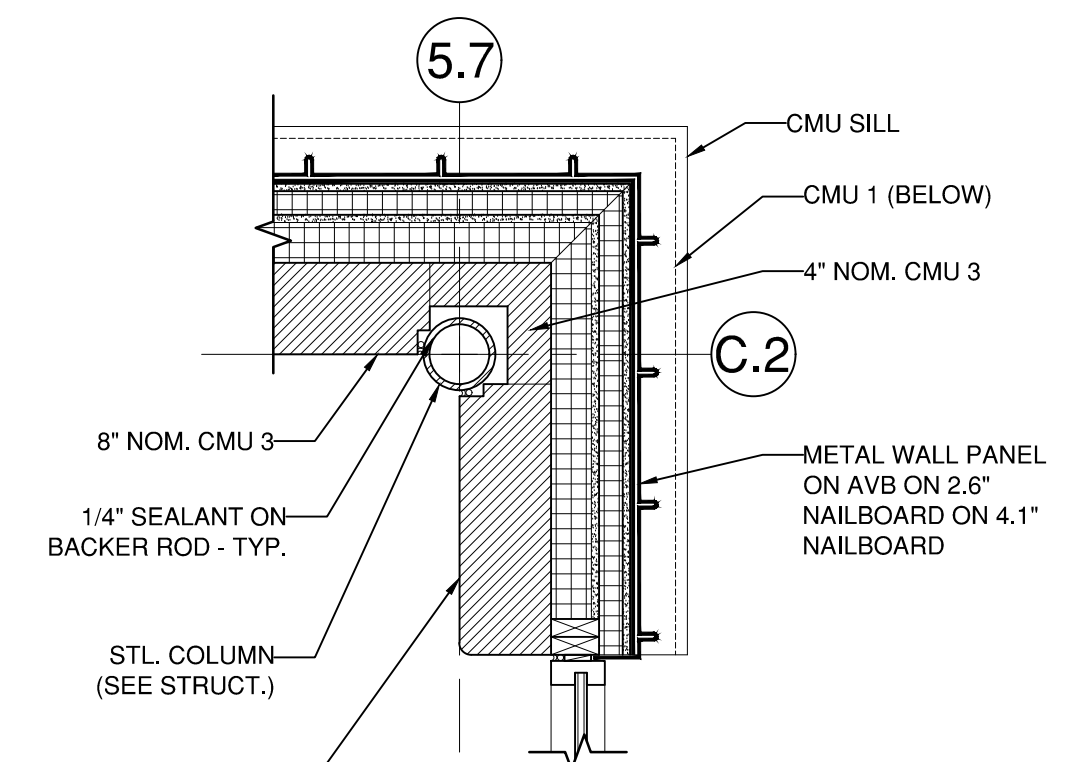
A500



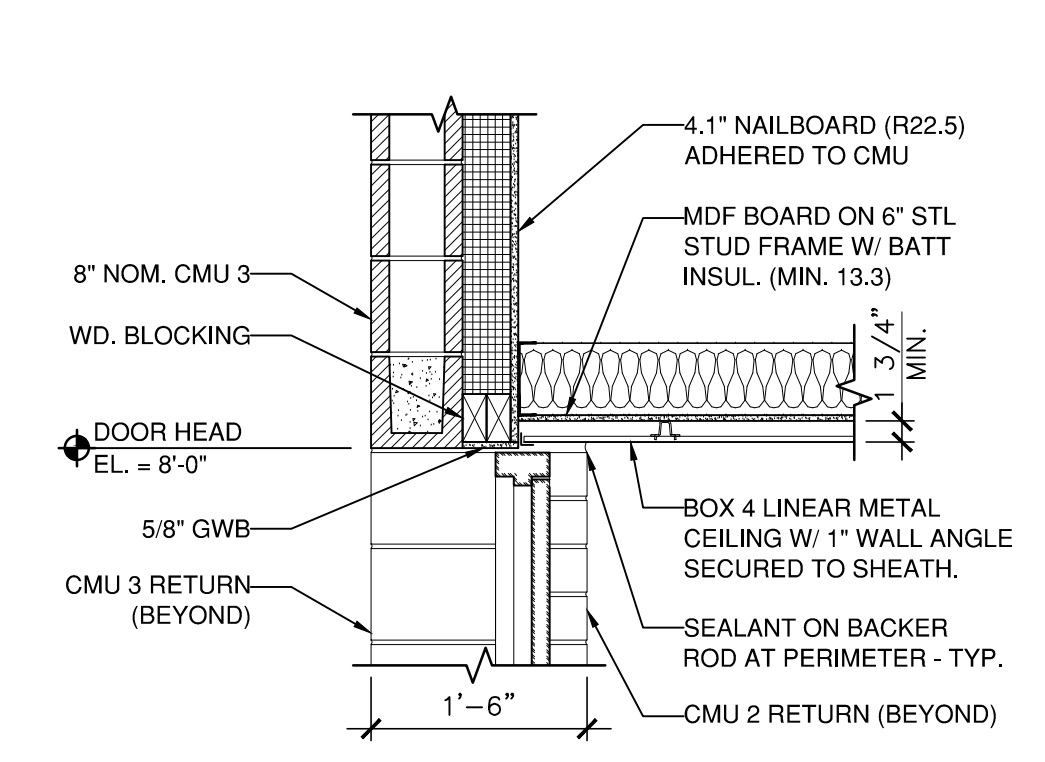
PLAN DETAIL 1
3/4" = 1'-0" A501



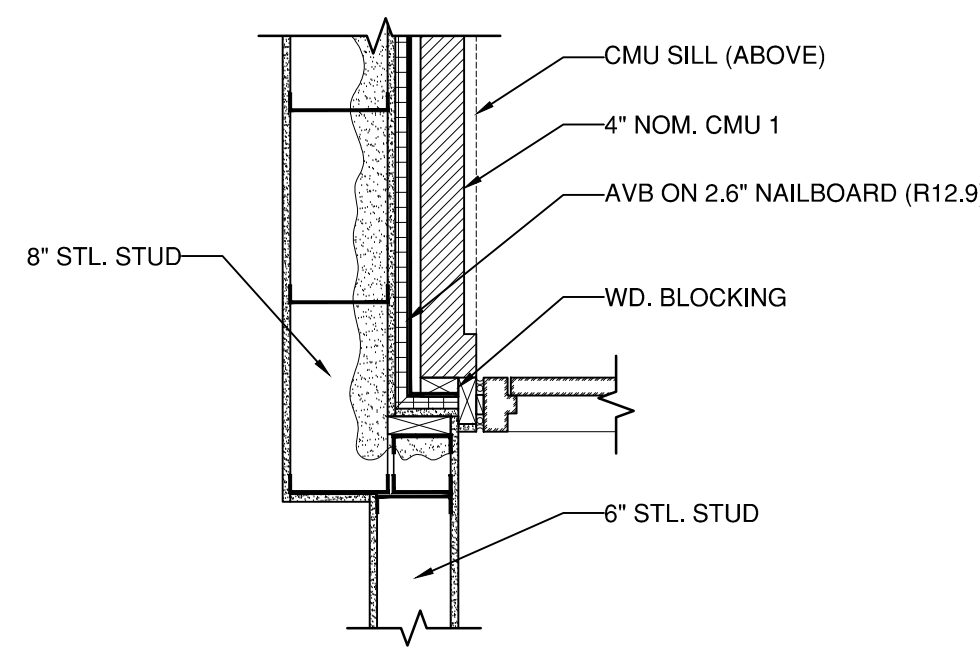
PLAN DETAIL 4.6
3/4" = 1'-0" A501



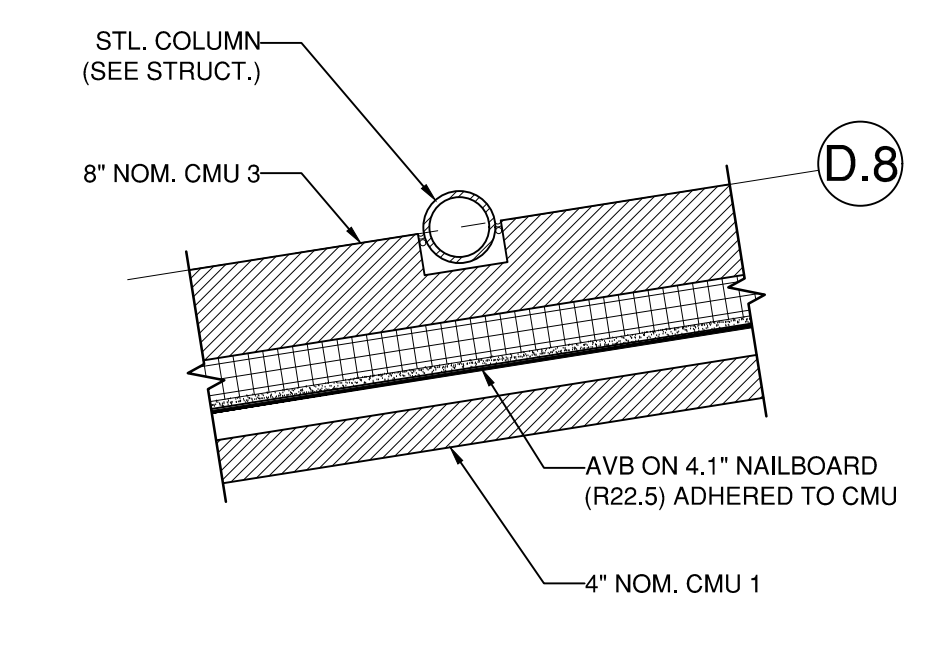
PLAN DETAIL 5.7
3/4" = 1'-0" A501



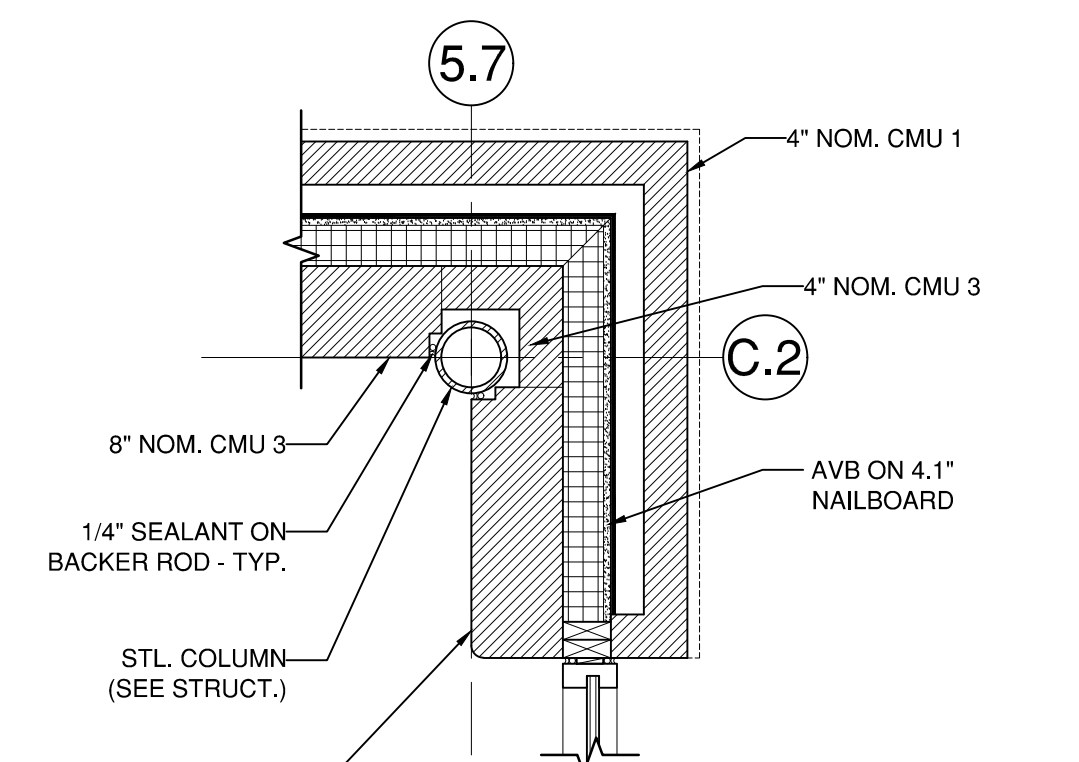
ENTRY DOOR 17
3/4" = 1'-0" A501



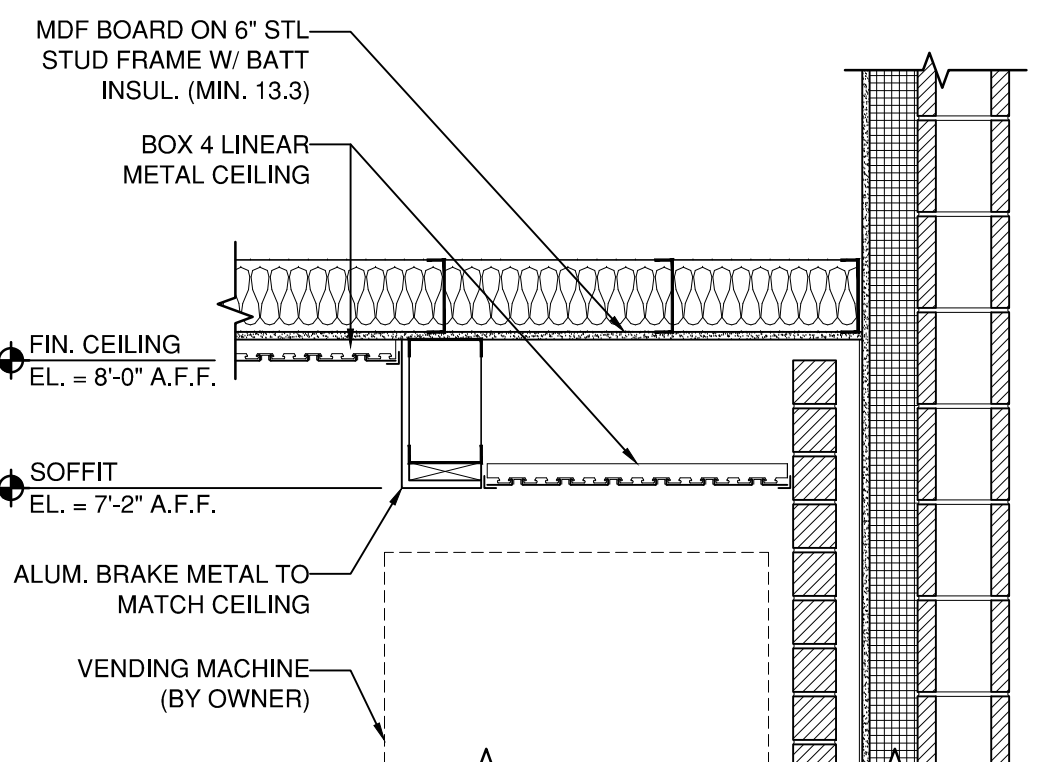
PLAN DETAIL 2
3/4" = 1'-0" A501



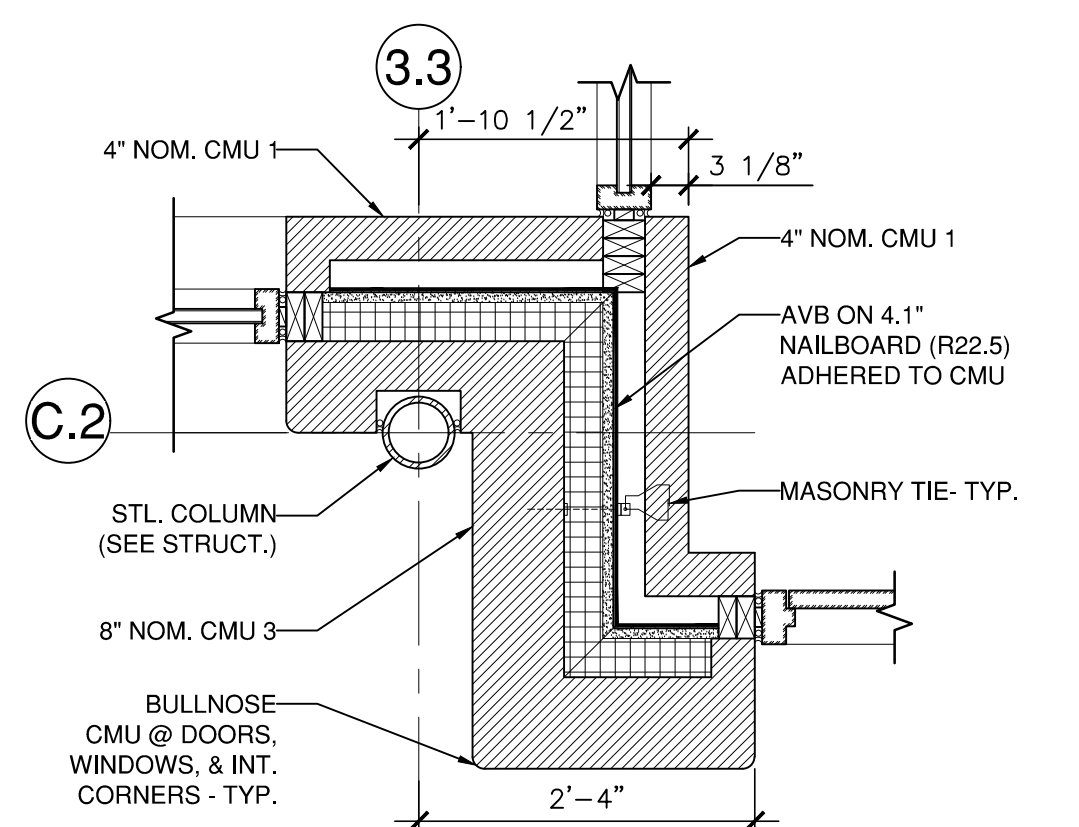
PLAN DETAIL 4.8
3/4" = 1'-0" A501



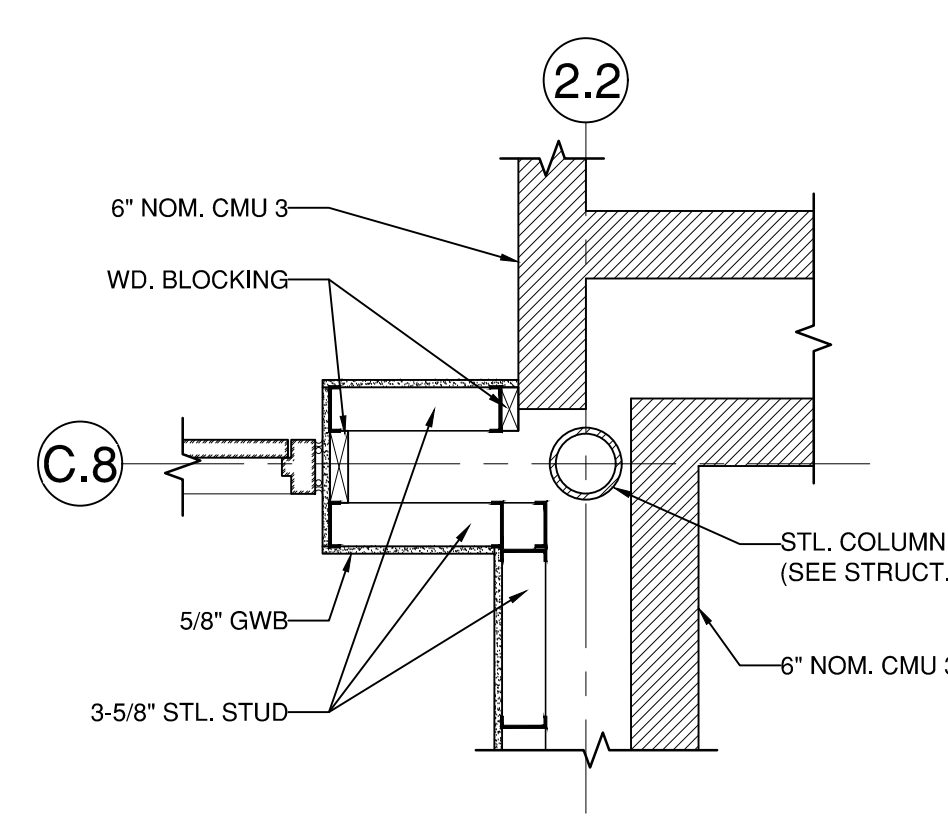
PLAN DETAIL 5.7
3/4" = 1'-0" A501



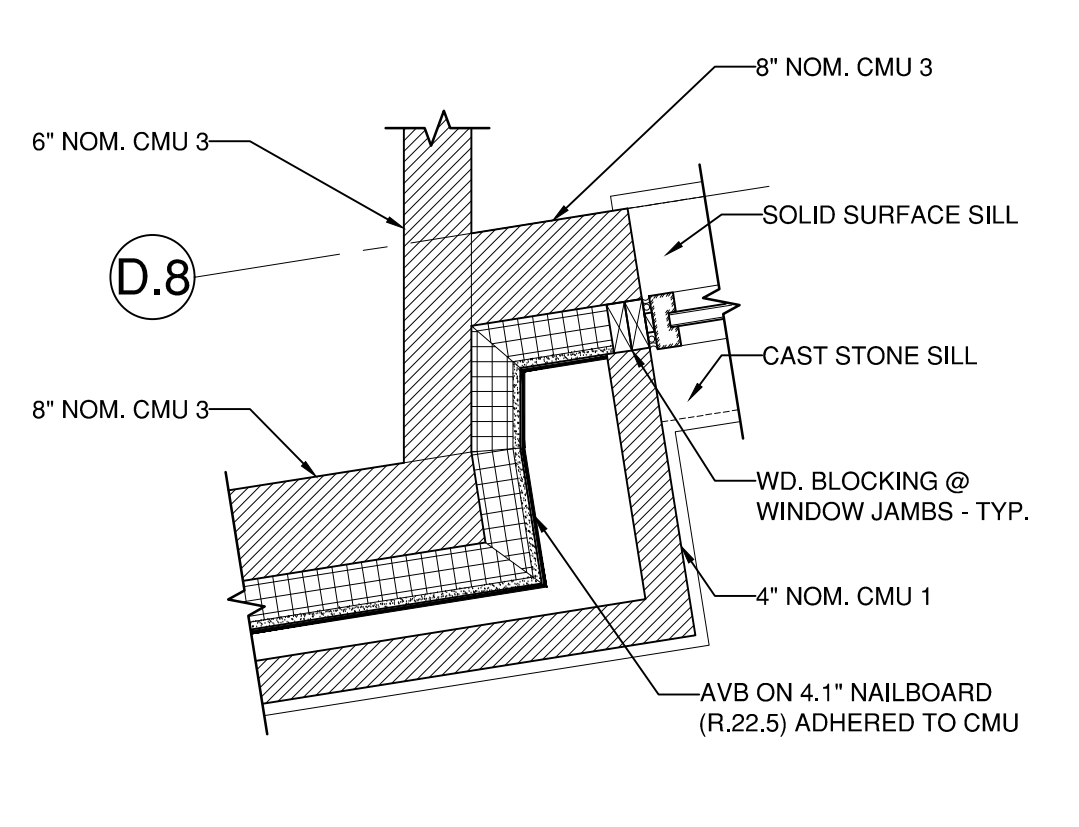
ENTRY VEND. 18
3/4" = 1'-0" A501



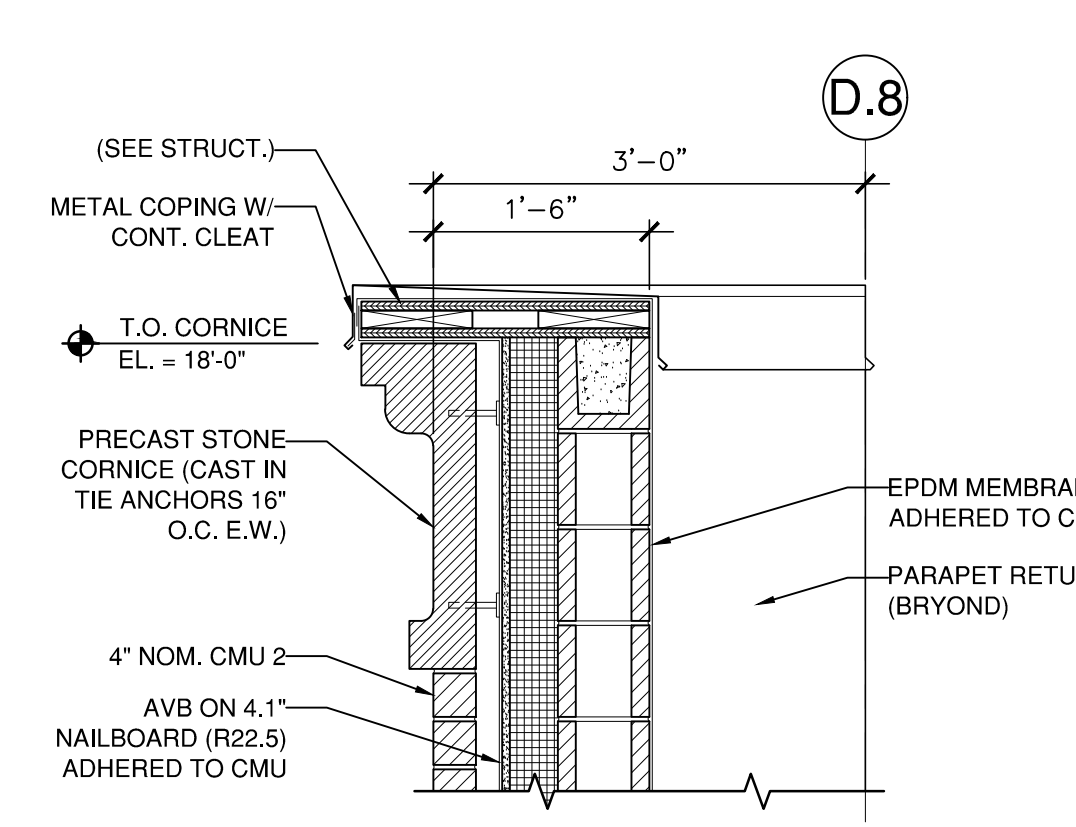
PLAN DETAIL 3.3
3/4" = 1'-0" A501



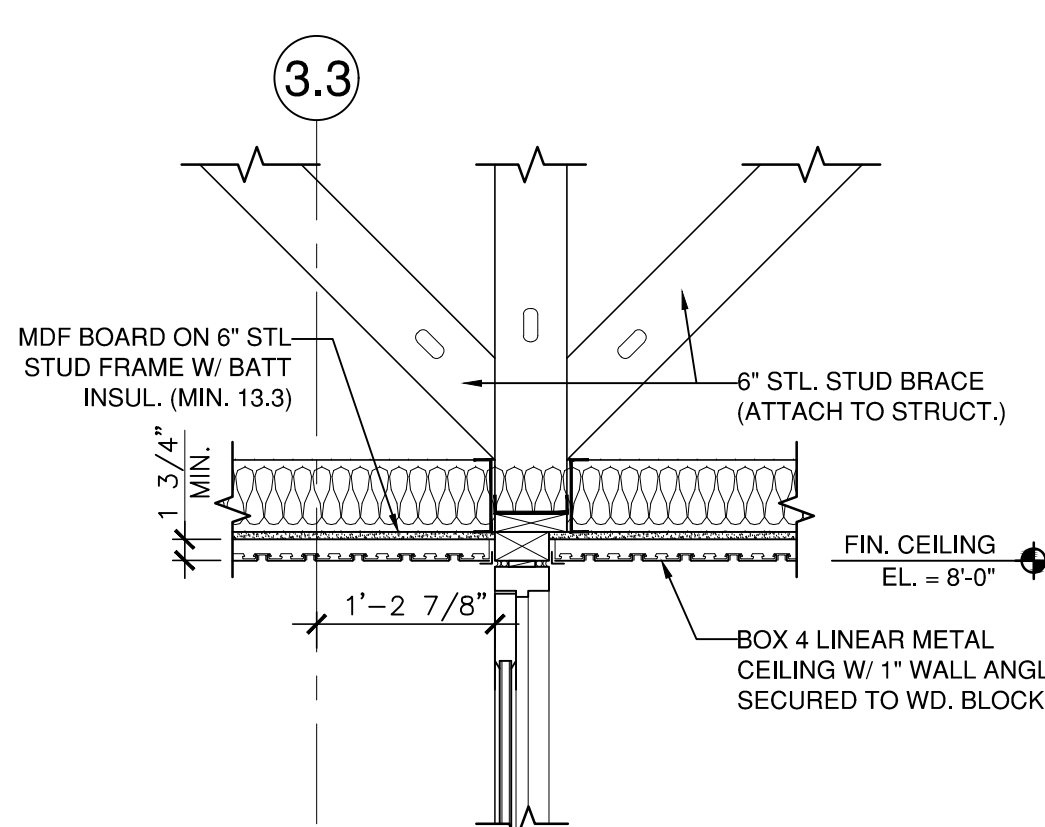
PLAN DETAIL 2.2
3/4" = 1'-0" A501



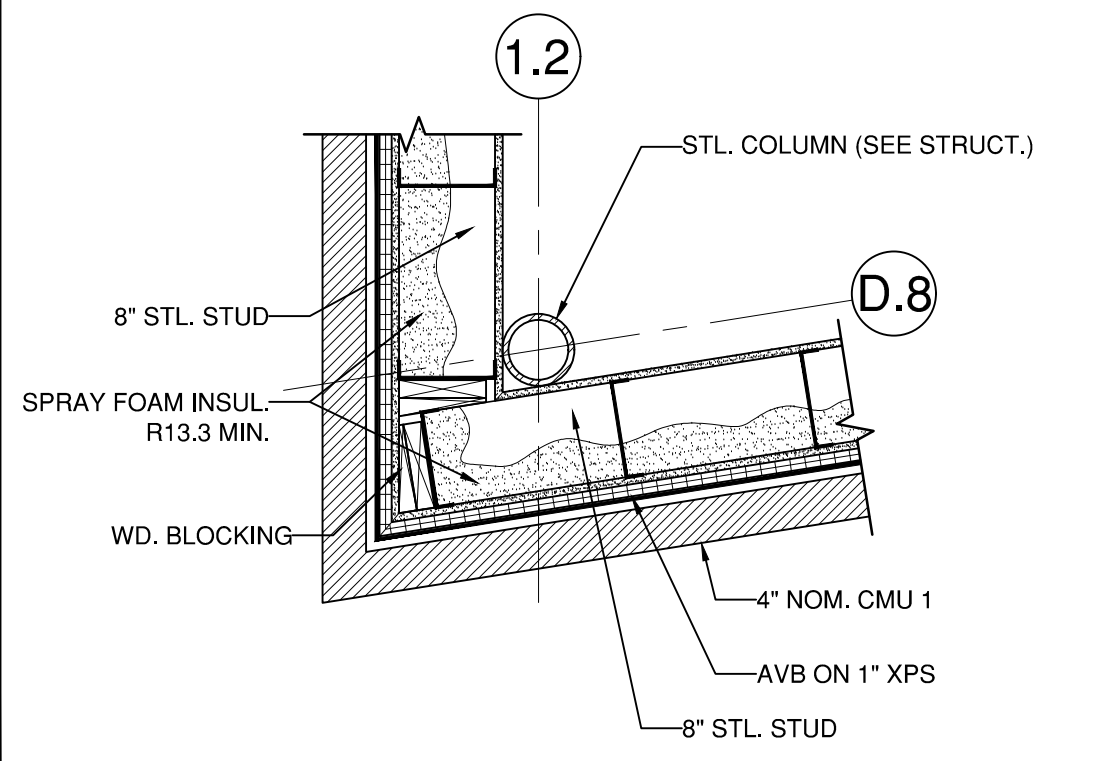
PLAN DETAIL 4.8
3/4" = 1'-0" A501



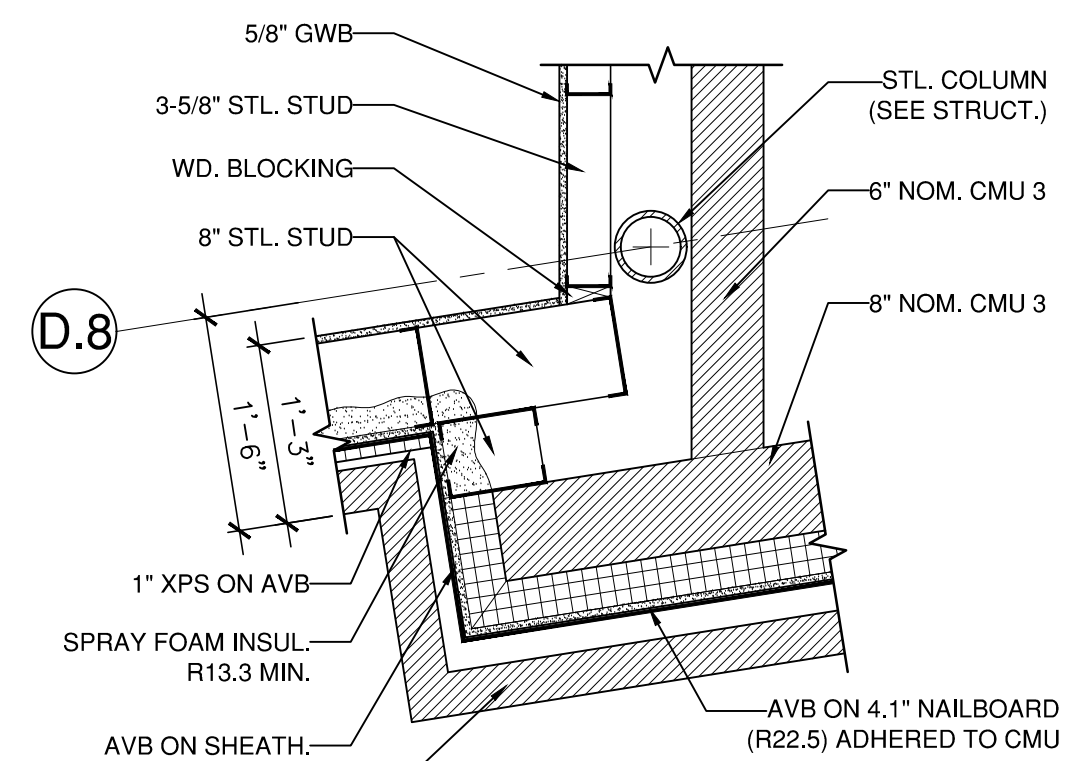
CORNICE DETAIL 15
3/4" = 1'-0" A501



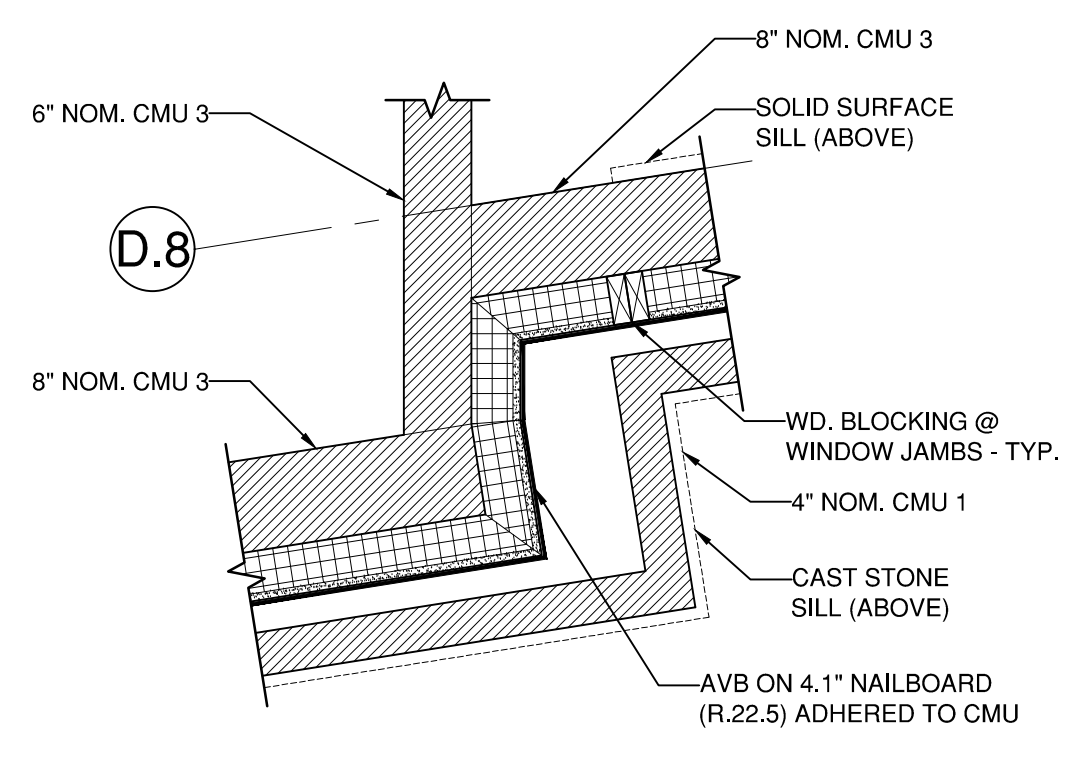
VEST. DETAIL 3.3
3/4" = 1'-0" A501



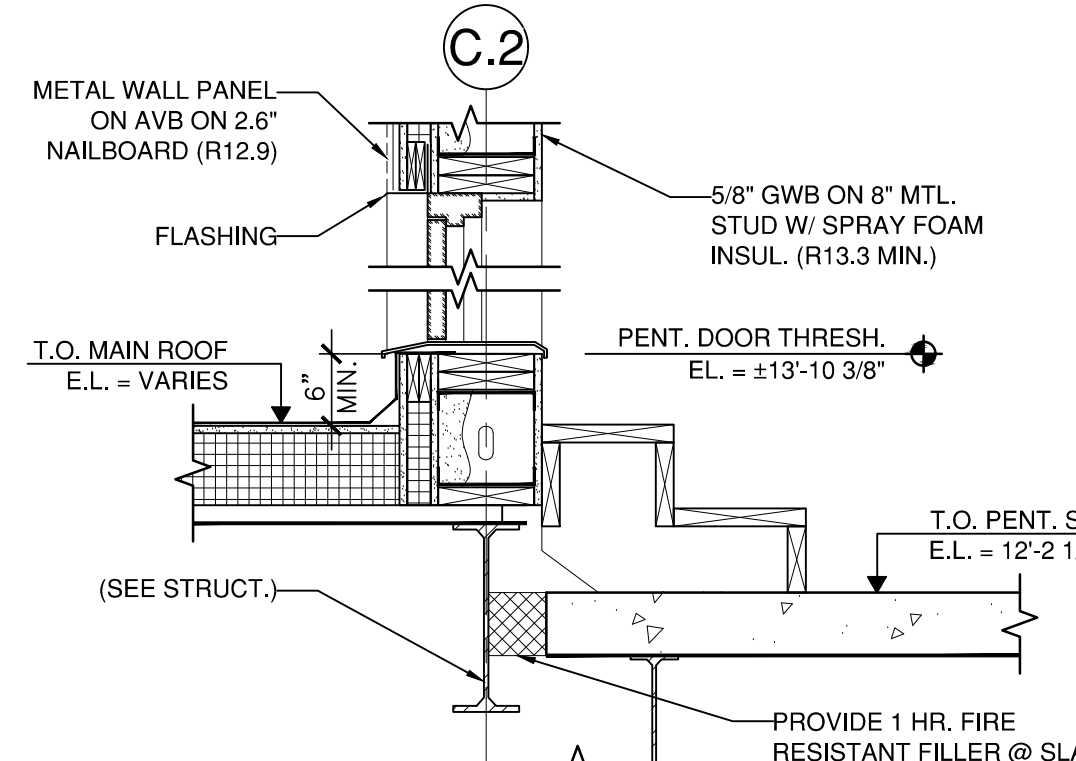
PLAN DETAIL 1.2
3/4" = 1'-0" A501



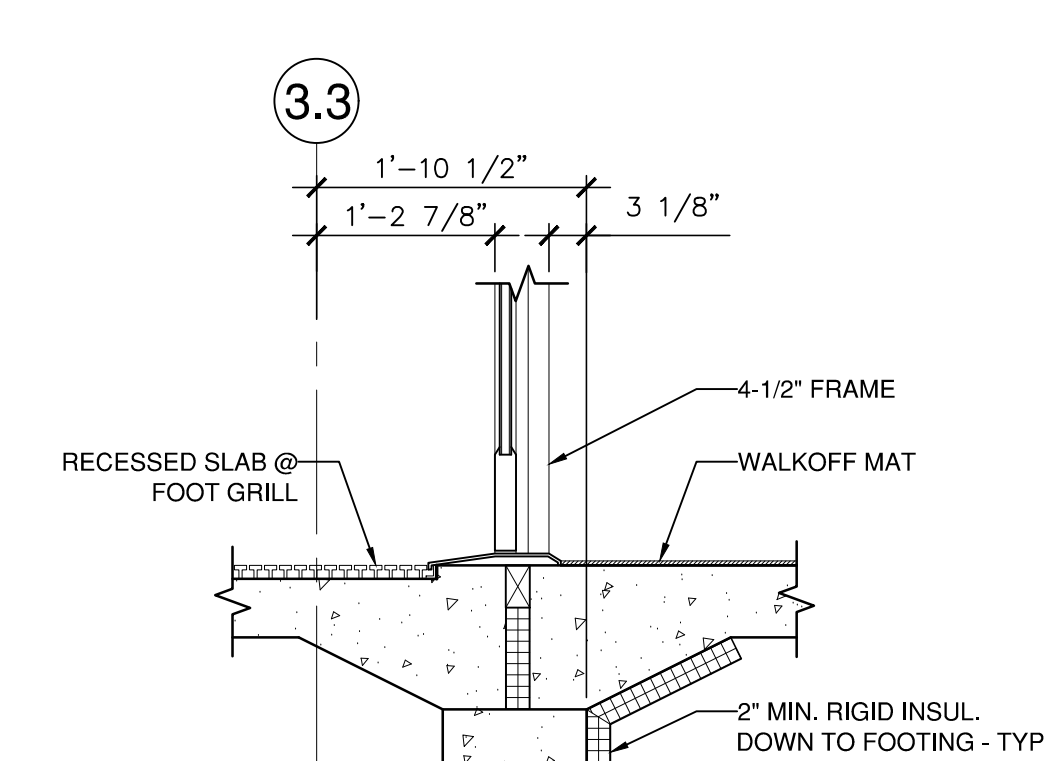
PLAN DETAIL 4.8
3/4" = 1'-0" A501



PLAN DETAIL 4.8
3/4" = 1'-0" A501



PENT. DOOR 16
3/4" = 1'-0" A501



VEST. DETAIL 3.3
3/4" = 1'-0" A501

PLAN DETAILS & MISC. DETAILS

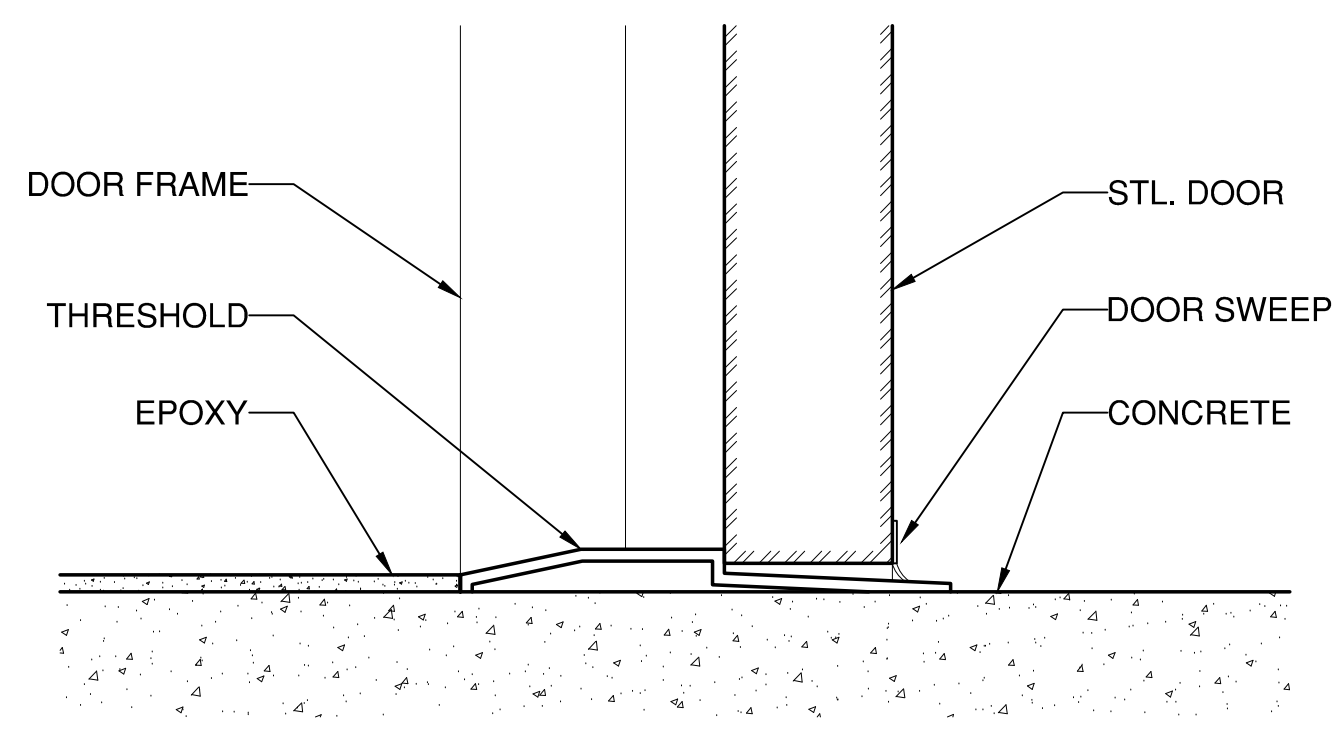
PROJ. NUMBER: 2020115
REV. DATE

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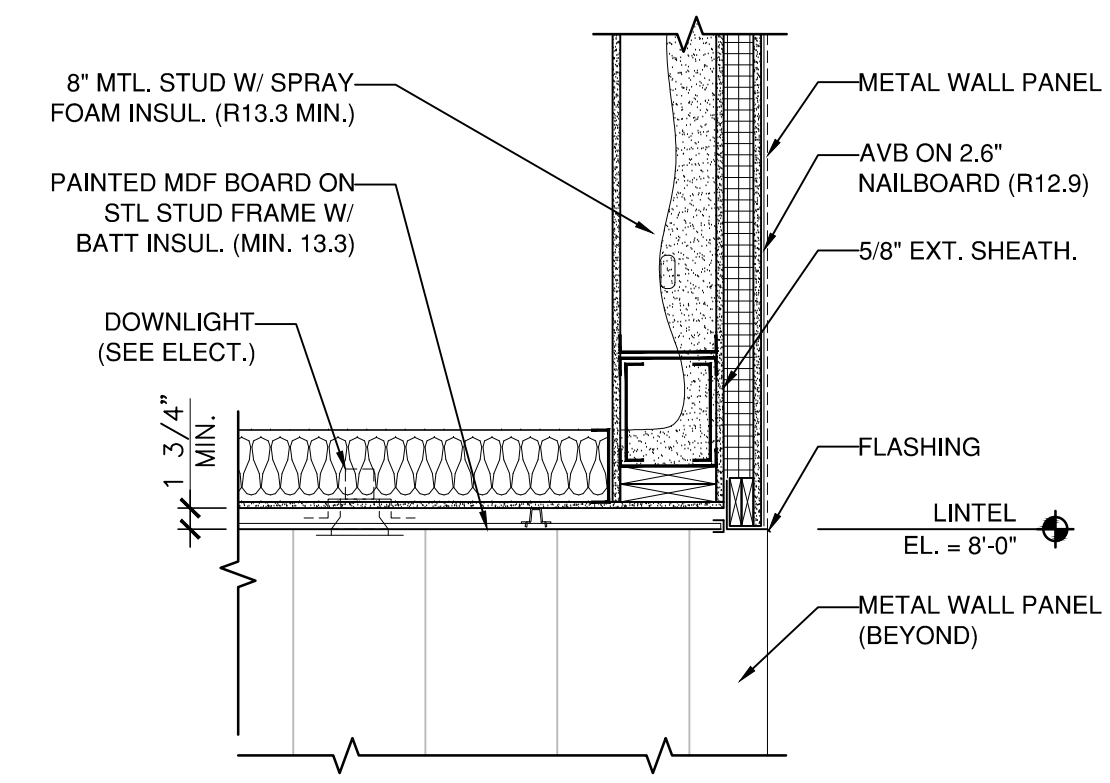
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DATE: MAY 12, 2021

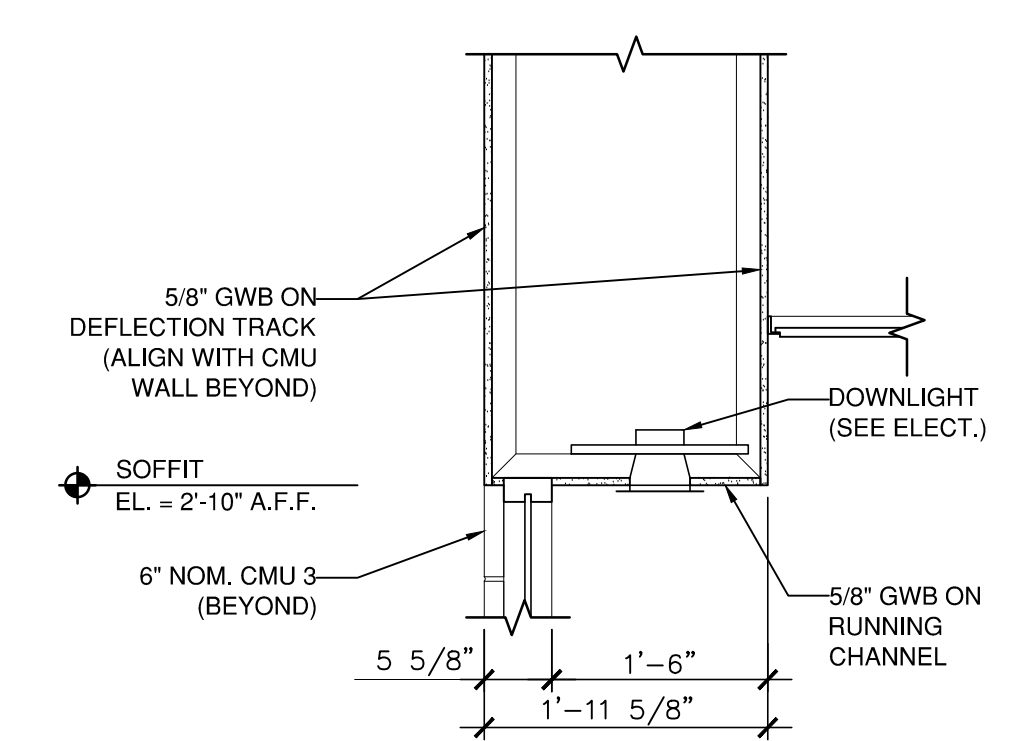
A501



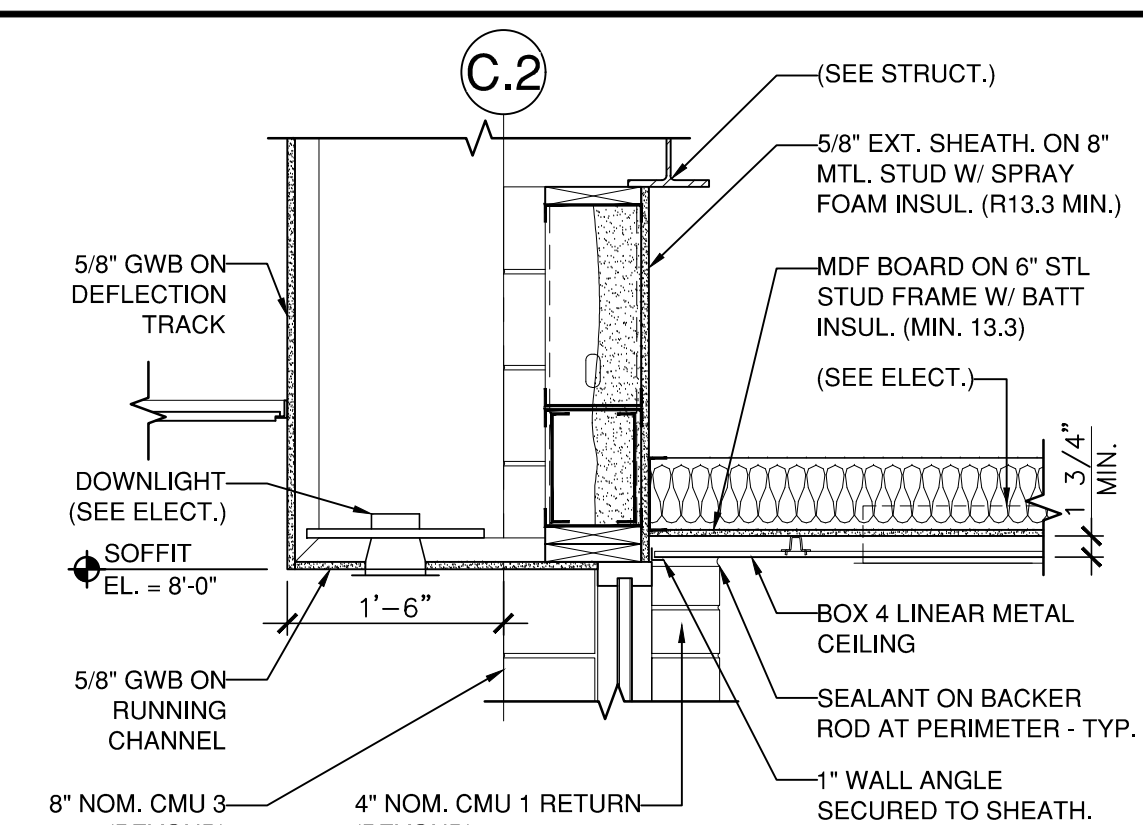
THRESHOLD 1
6" = 1'-0" A502



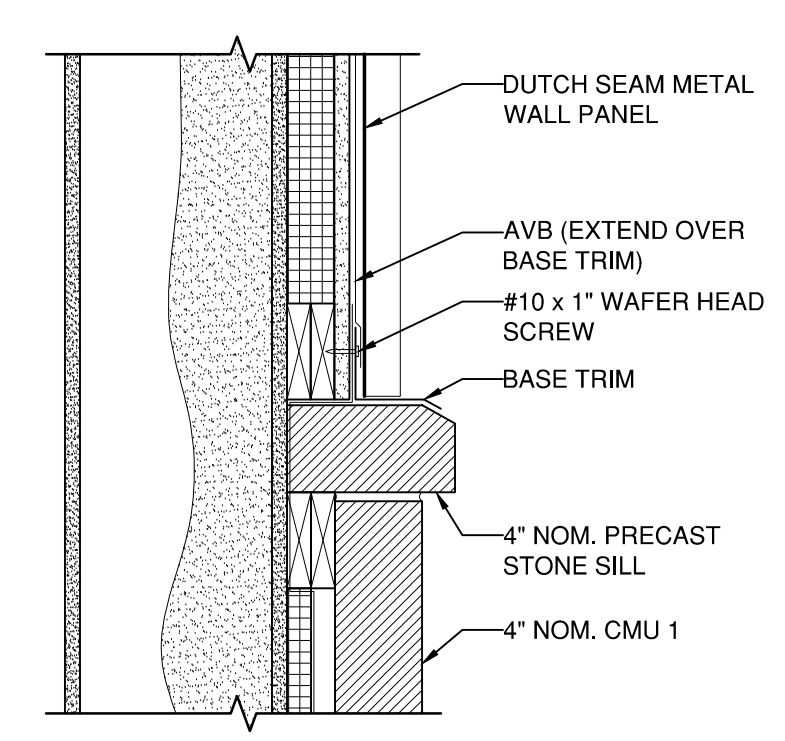
ADMIN. ENTRANCE 5
3/4" = 1'-0" A502



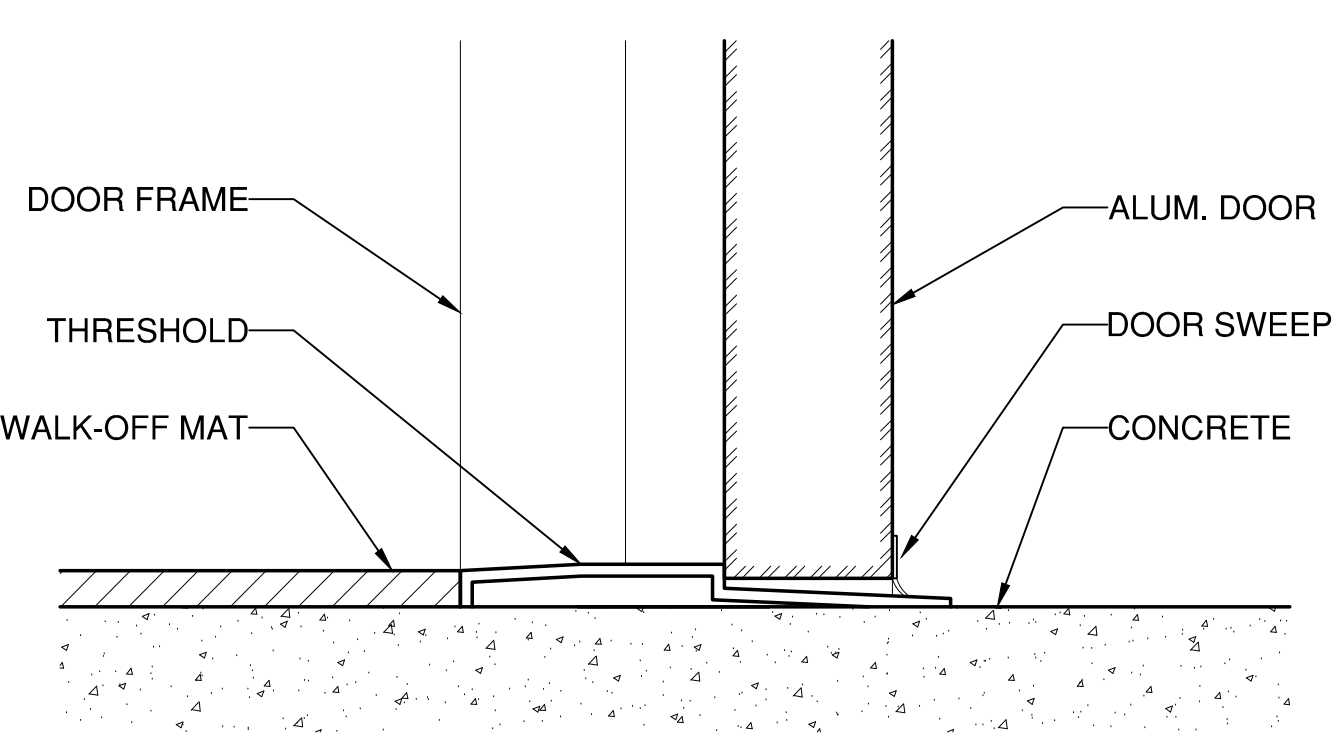
SERV. COUNTER 9
3/4" = 1'-0" A502



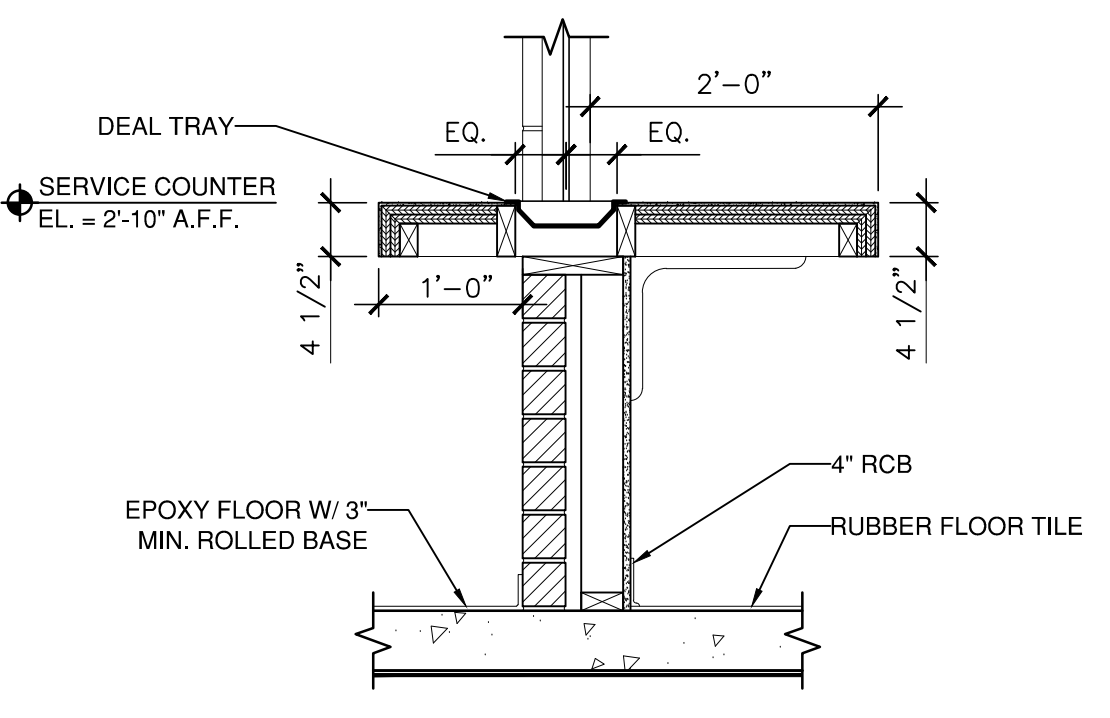
TICKET WINDOW 13
3/4" = 1'-0" A502



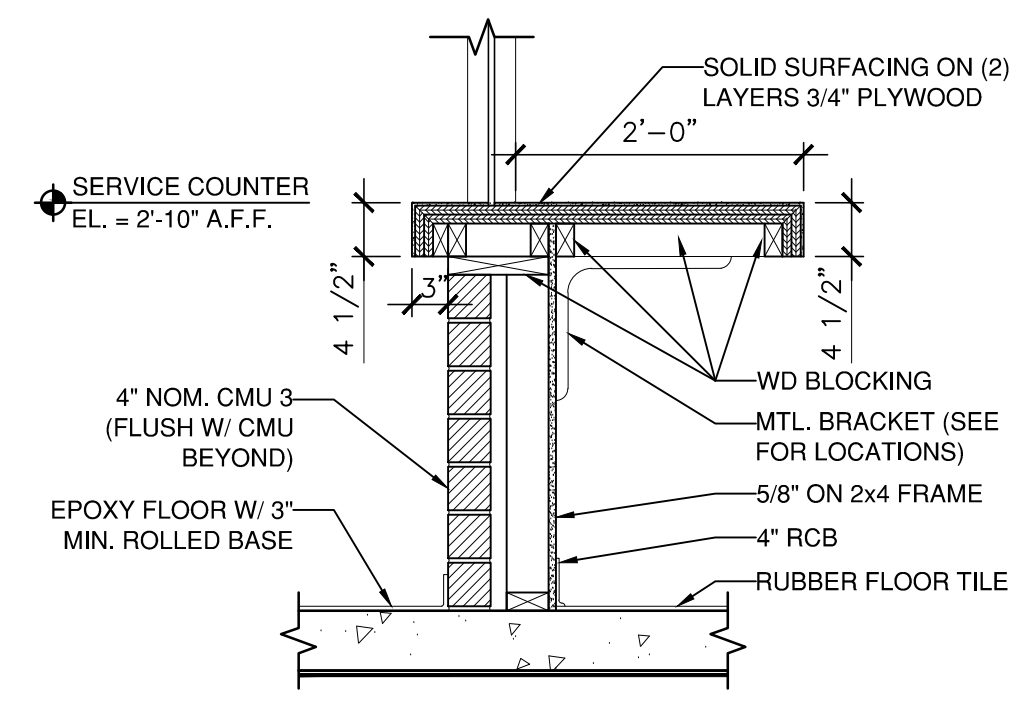
BASE DETAIL-TYP 18
1-1/2" = 1'-0" A502



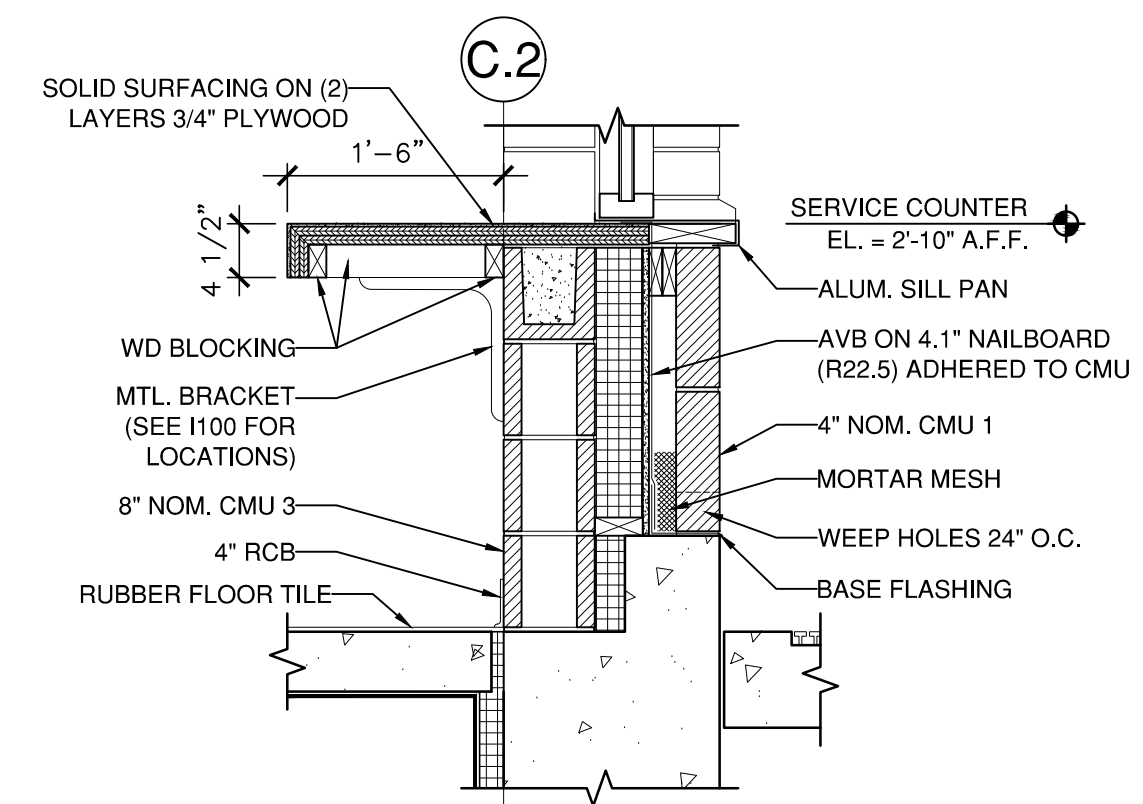
THRESHOLD 2
6" = 1'-0" A502



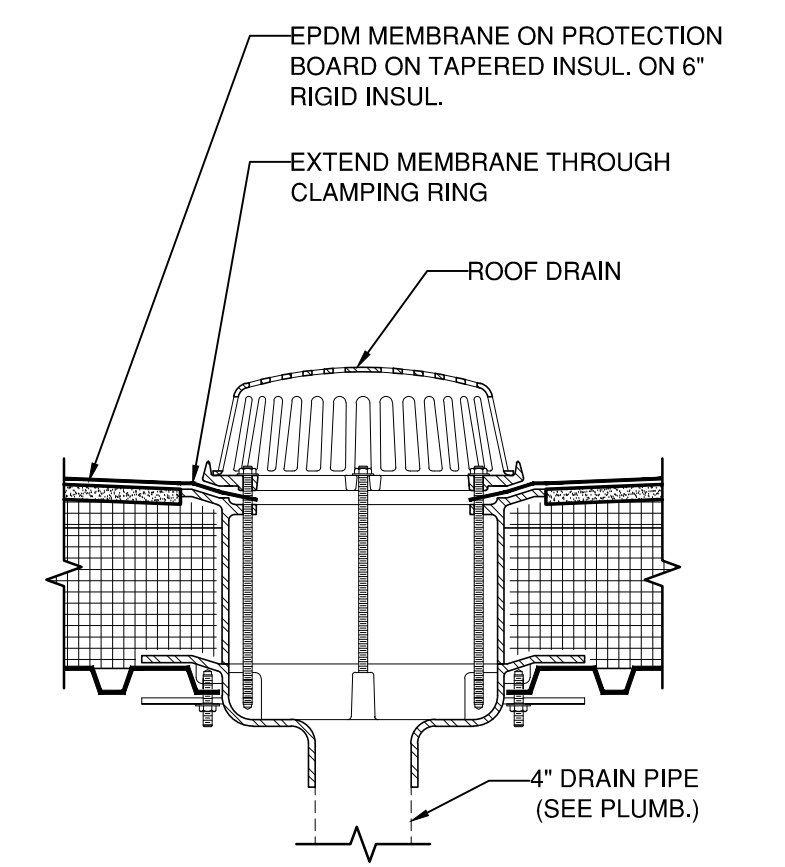
SERV. COUNTER 6
3/4" = 1'-0" A502



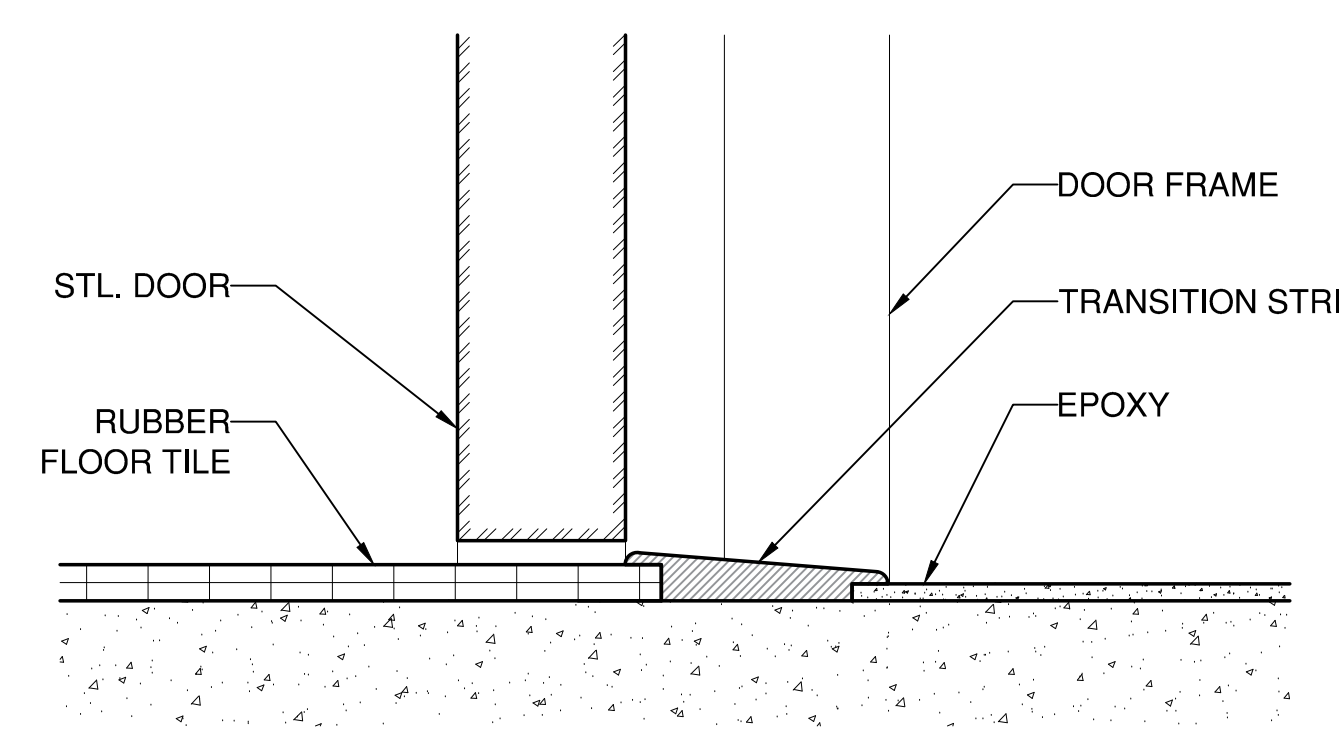
SERV. COUNTER 10
3/4" = 1'-0" A502



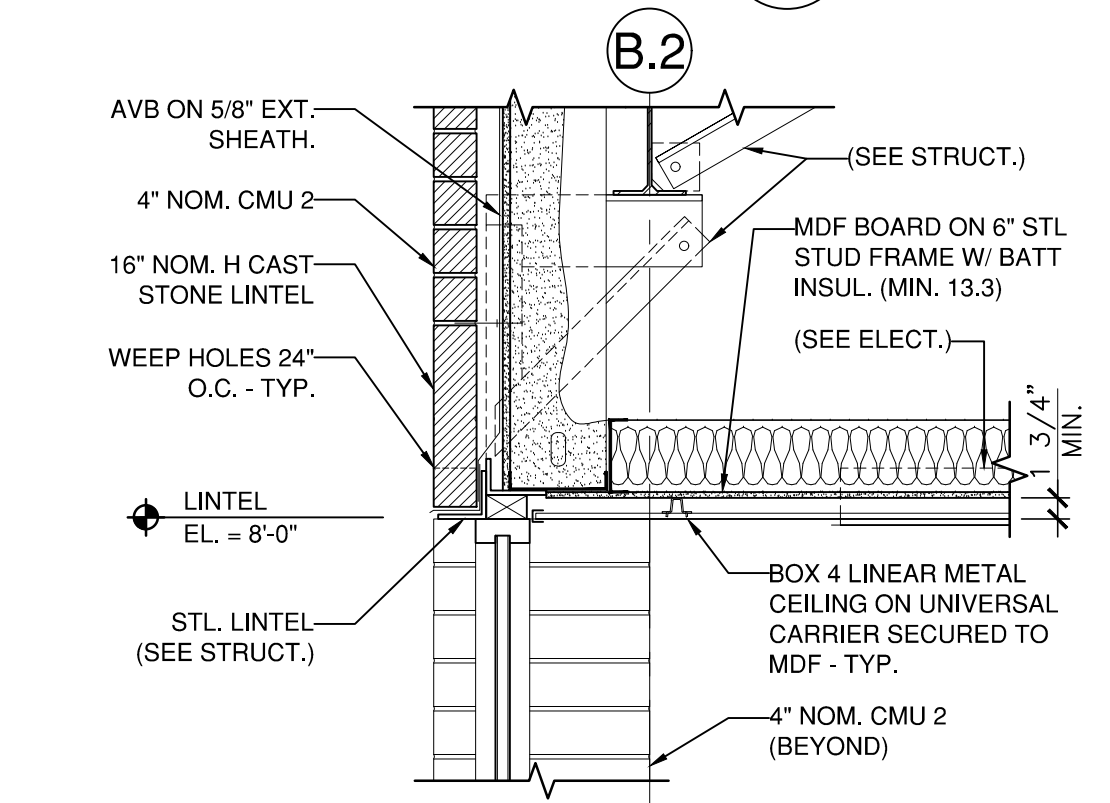
TICKET WINDOW 14
3/4" = 1'-0" A502



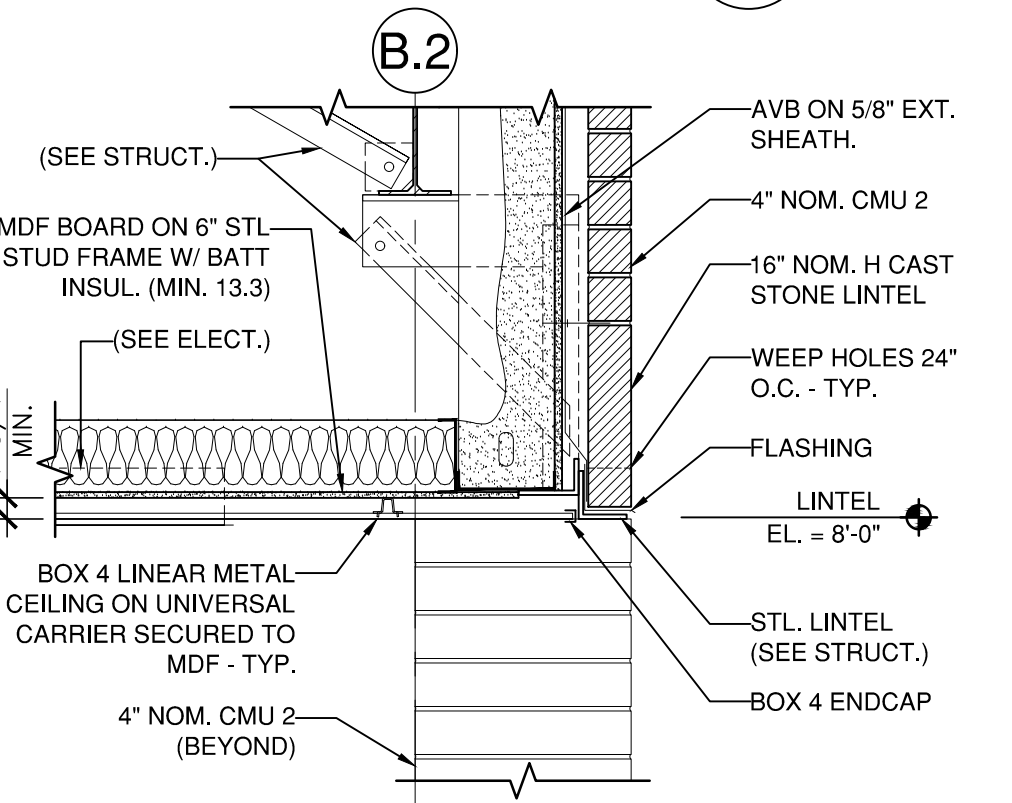
ROOF DRAIN-TYP. 18
1-1/2" = 1'-0" A502



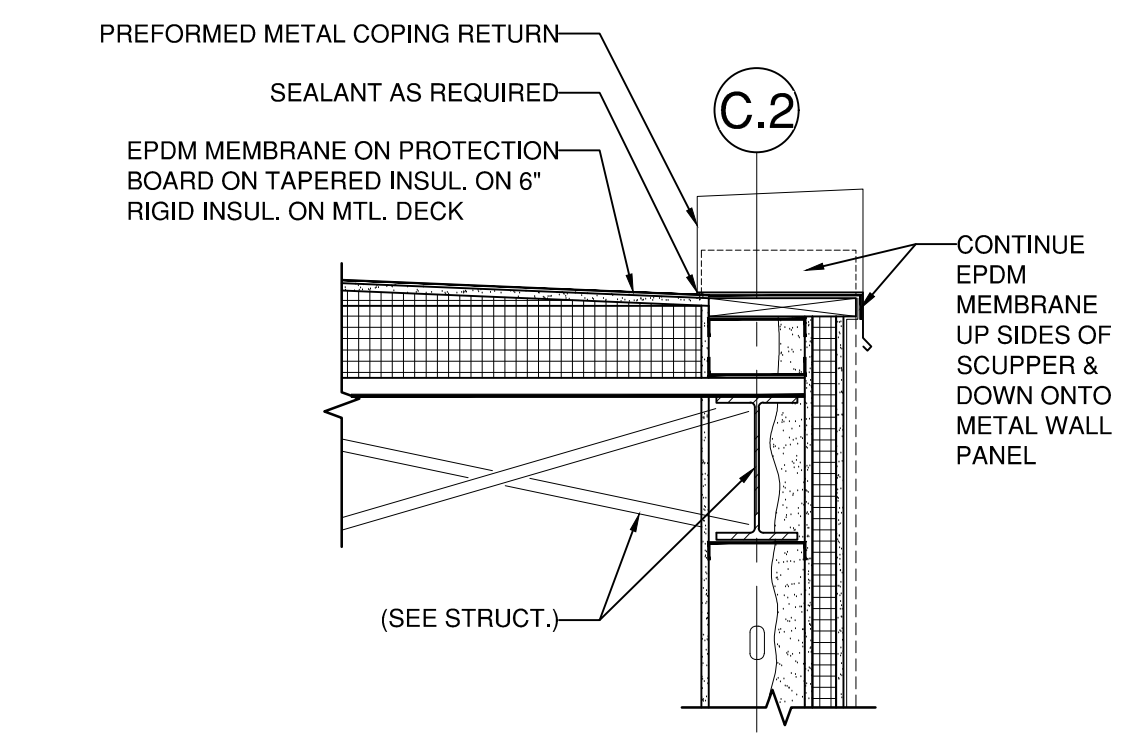
THRESHOLD 3
6" = 1'-0" A502



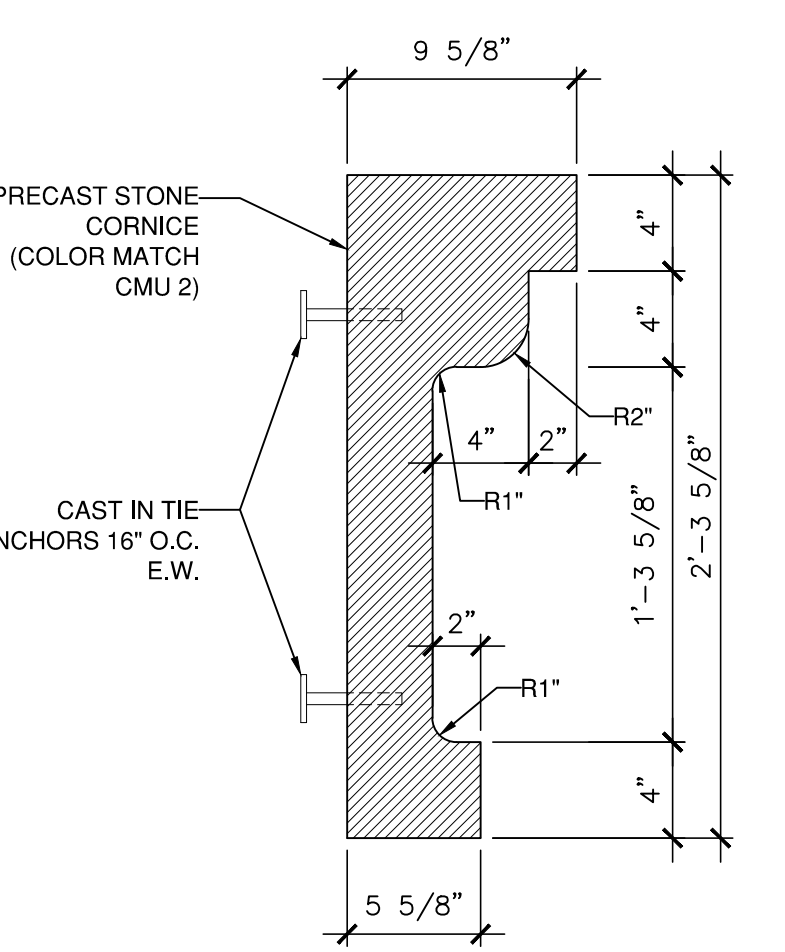
VEST. LINTEL 7
3/4" = 1'-0" A502



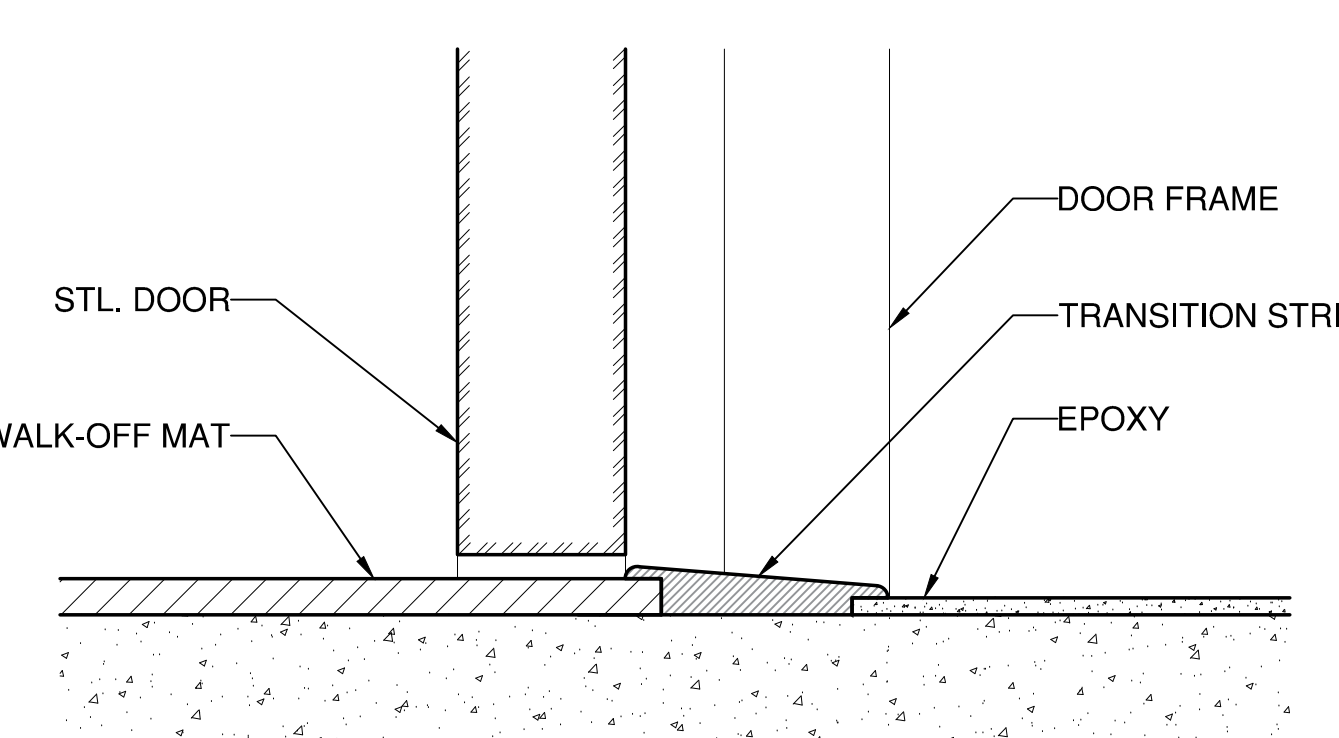
ENTRANCE LINTEL 11
3/4" = 1'-0" A502



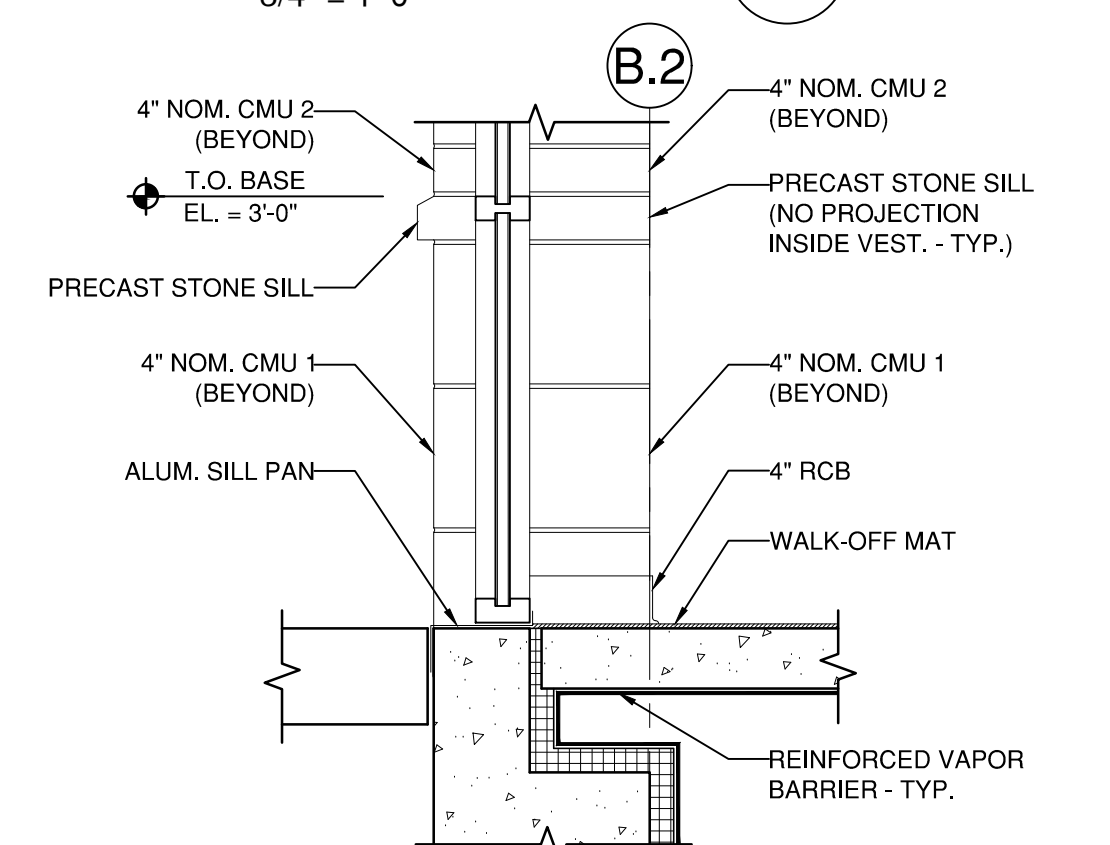
PENT. SCUPPER 15
3/4" = 1'-0" A502



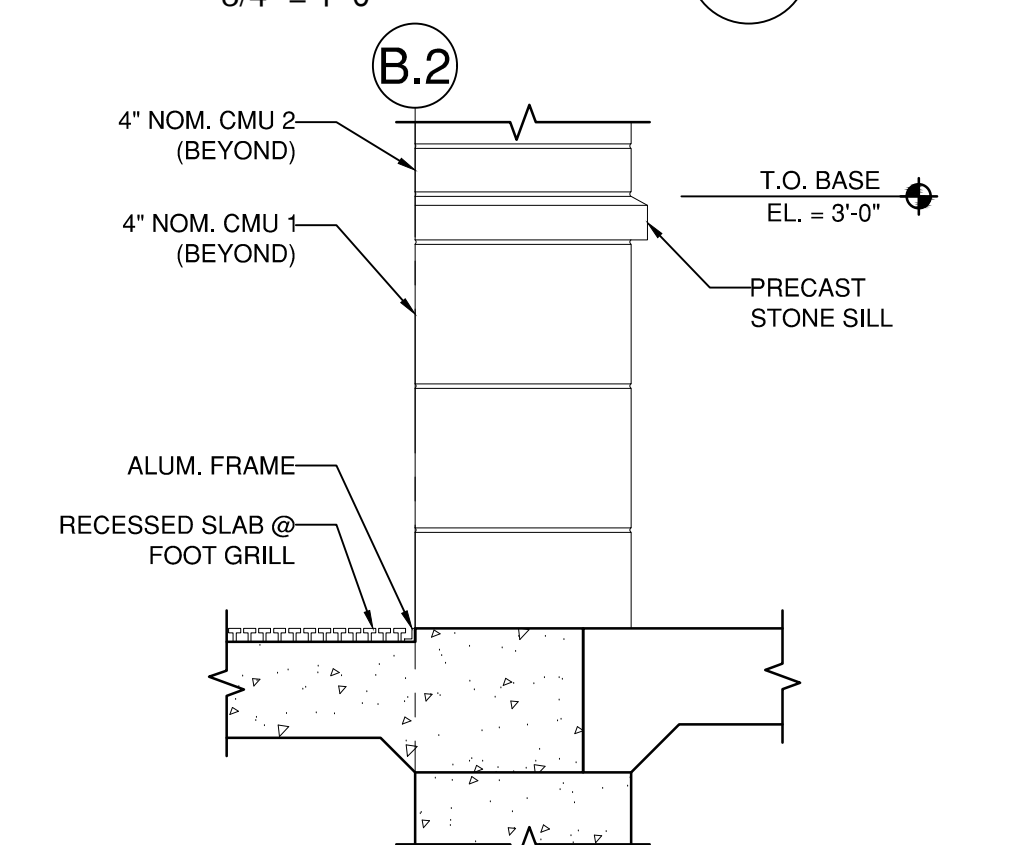
CORNICE DETAIL 19
1-1/2" = 1'-0" A502



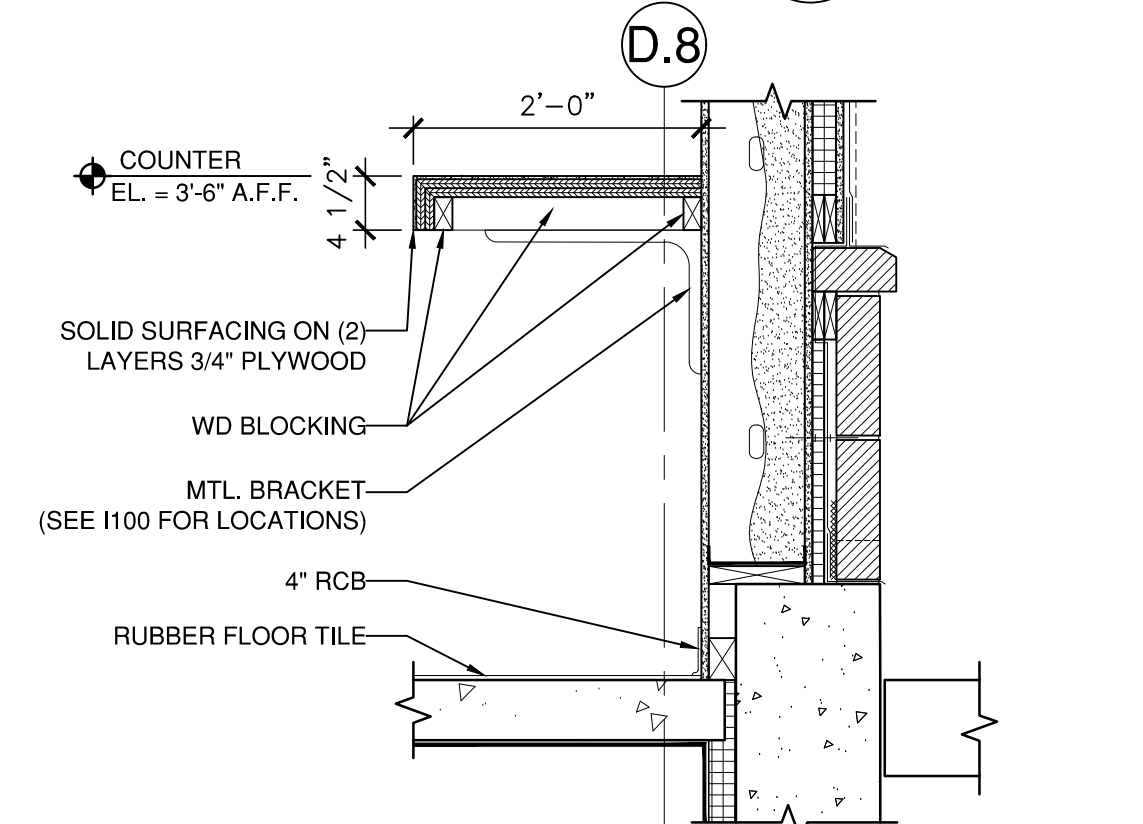
THRESHOLD 4
6" = 1'-0" A502



VEST. DETAIL 8
3/4" = 1'-0" A502



ENTRANCE GRILL 12
3/4" = 1'-0" A502



BUS COUNTER 16
3/4" = 1'-0" A502

PROJ. NUMBER:	2020115
REV.	DATE
DRAWN BY:	AG
DESCRIPTION	

NOTE: G.C. TO COORDINATE LENGTH OF TIES WITH FIELD CONDITIONS

WINDOW SCHEDULE

#	WINDOW			FRAME			
	GLASS	HEIGHT	WIDTH	MATL.	DETAIL		
					HEAD	JAMB	SILL
1	IG	4'-0"	4'-0"	ALUM	13/A500	SIM. 9/A501	14/A500
2	IG	5'-4"	5'-0"	ALUM	13/A502	3/A501	14/A502
3	IG	7'-0"	10'-0"	ALUM	15/A500	SIM. 9/A501	16/A500
4	IG	7'-0"	38'-0 1/2"	ALUM	15/A500	11/A501	16/A500
5	IG	7'-0"	11'-4"	ALUM	15/A500	SIM. 9/A501	16/A500
6	IG	8'-0"	SEE ELEV.	ALUM	7/A502 & 19/A501	3/A501	8/A502 & 20/A501

LEGEND

BALLISTIC GLASS	[B]
TEMPERED GLASS	[T]

WINDOW TAG	[1]	WINDOW TAG	[2]	WINDOW TAG	[3]
DESCRIPTION	ADMIN.	DESCRIPTION	ENTRY	DESCRIPTION	WAITING AREA

WINDOW TAG	[4]
DESCRIPTION	WAITING AREA

WINDOW TAG	[5]	WINDOW TAG	[6]
DESCRIPTION	WAITING AREA	DESCRIPTION	VESTIBULE

DOOR AND FRAME SCHEDULE

#	DOOR					FRAME				FIRE RATING LABEL (MIN)	HARDW.	NOTES	
	EL.	MATL.	GLAZ.	WD.	HGT.	MATL.	EL.	DETAIL					
								HEAD	JAMB				THRESH.
E110	A	ALUM	-	6'-0"	8'-0"	ALUM	4	2/A503	-	2/A503	NR	EXIT, S/C	UNLOCK DURING BUS HOURS
E108A	A	ALUM	-	3'-0"	8'-0"	ALUM	2	-	-	1/A503	NR	EXIT, S/C	ELECTRONIC ADMITTANCE W/ PASS
E108B	A	ALUM	-	3'-0"	8'-0"	ALUM	2	-	-	1/A503	NR	EXIT, S/C	ELECTRONIC ADMITTANCE W/ PASS
E102	B	STL	1"	3'-0"	8'-0"	STL	1	-	1/A501	1/A503	NR	EXIT, S/C	BADGE OPEN
E104	D	STL	-	3'-0"	8'-0"	STL	1	8/A500	-	1/A503	?	S/C	BADGE OPEN
100	B	STL	FR	3'-0"	7'-0"	STL	3	-	-	3/A503	_MIN.	S/C	BADGE OPEN
101	C	STL	-	3'-0"	7'-0"	STL	3	-	-	-	_MIN.	S/C	-
103	B	STL	FR	3'-0"	7'-0"	STL	3	-	7/A501	3/A503	_MIN.	S/C	-
105A	B	STL	FR	3'-0"	7'-0"	STL	3	-	-	3/A503	_MIN.	S/C	BADGE OPEN (FROM CORRIDOR)
105B	C	STL	-	2'-6"	7'-0"	STL	3	-	-	-	45 MIN.	-	-
105C	A	STL	-	3'-0"	7'-0"	STL	3	-	-	3/A503	NR	S/C	BADGE OPEN (FROM WAITING AREA)
106	C	STL	-	3'-0"	7'-0"	STL	3	-	-	-	NR	S/C	BUZZ IN BY ADMIN / KICKPLATE ON PUSH SIDE
107	C	STL	-	3'-0"	7'-0"	STL	3	-	-	-	NR	S/C	BUZZ IN BY ADMIN / KICKPLATE ON PUSH SIDE
108	A	ALUM	-	3'-0"	8'-0"	ALUM	4	17/A501	3/A501	4/A503	NR	S/C	-
109	C	STL	-	3'-0"	8'-0"	STL	1	-	-	4/A503	NR	S/C	BUZZ IN BY ADMIN / KICKPLATE ON PUSH SIDE
200	C	STL	-	3'-6"	6'-8"	STL	5	16/A501	-	16/A501	NR	-	-

DOOR ELEV.	A	DOOR ELEV.	B	DOOR ELEV.	C	DOOR ELEV.	D	FRAME ELEV.	1
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FRAME ELEV.	2	FRAME ELEV.	3	FRAME ELEV.	4	FRAME ELEV.	5	FRAME ELEV.	6
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128 Broadway
Bangor, Maine 04401
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207-974-3028 Fax:
207-941-1921
www.artifexae.com

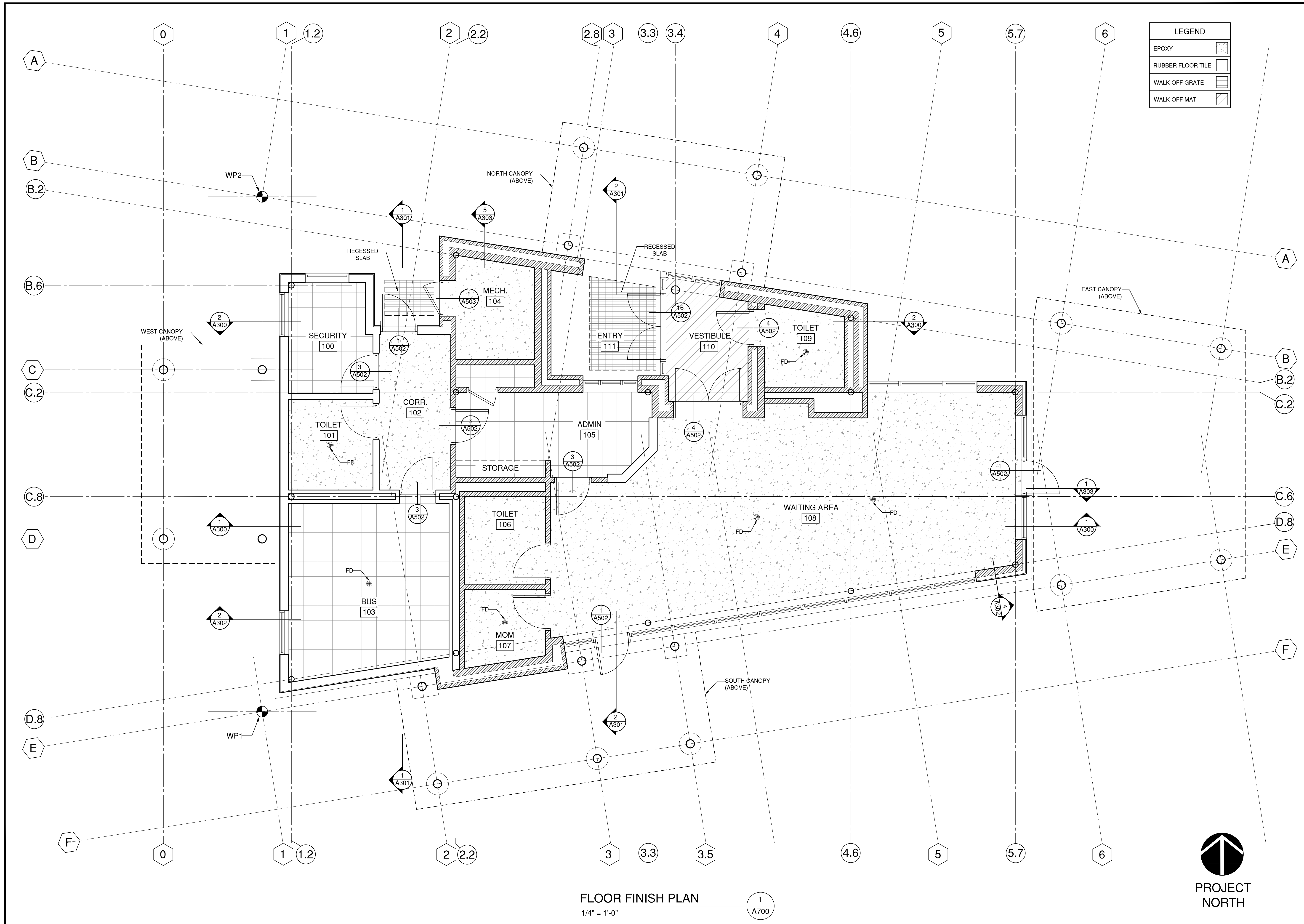
WINDOW & DOOR SCHEDULE

PROJ. NUMBER:	2020115	DRAWN BY:	AG
REV.	DATE	DESCRIPTION	

CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME

DATE:
MAY 12, 2021

A600



FLOOR FINISH PLAN
1/4" = 1'-0"
1
A700



FLOOR FINISH PLAN

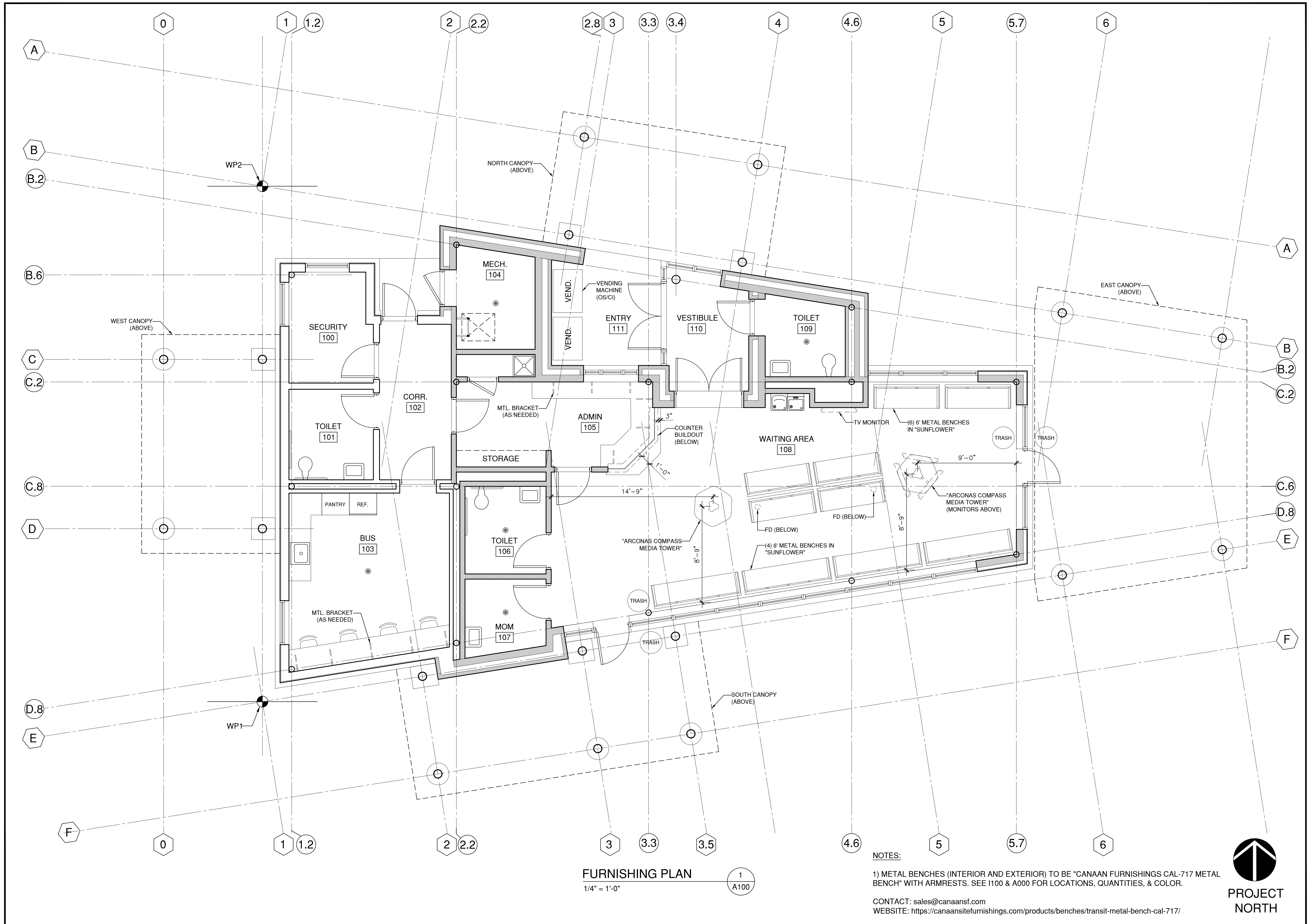
PROJ. NUMBER:	2020115
DATE:	
DRAWN BY:	AG
DESCRIPTION:	

CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME

DATE: MAY 12, 2021

A700

PROJ. NUMBER:	2020115
DATE:	
DRAWN BY:	AG
DESCRIPTION:	



FURNISHING PLAN
1/4" = 1'-0"

1
A100

NOTES:

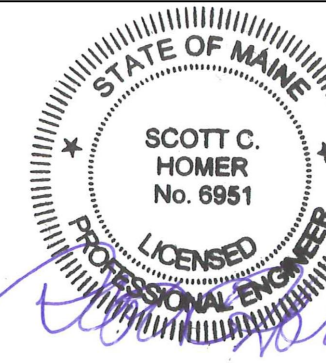
1) METAL BENCHES (INTERIOR AND EXTERIOR) TO BE "CANAN FURNISHINGS CAL-717 METAL BENCH" WITH ARMRESTS. SEE I100 & A000 FOR LOCATIONS, QUANTITIES, & COLOR.

CONTACT: sales@canaansf.com
WEBSITE: <https://canaansitefurnishings.com/products/benches/transit-metal-bench-cal-717/>





128 Broadway
Bangor, Maine 04401
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207-941-1921
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GENERAL NOTES

PROJ. NUMBER: 2020115	DRAWN BY: AG/EJ
REV. DATE	DESCRIPTION

CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME

DATE:
MAY 12, 2021

S001

GENERAL NOTES

- ALL STRUCTURAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE MAINE UNIFORM BUILDING AND ENERGY CODE (MUBEC), THE INTERNATIONAL BUILDING CODE (IBC 2015) AND
- ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH PROJECT SPECIFICATIONS, MECHANICAL, SITE AND ARCHITECTURAL DRAWINGS.
- ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR. THE GENERAL CONTRACTOR SHALL COORDINATE AND BE RESPONSIBLE FOR THE PROPER ESTABLISHMENT AND VERIFICATION OF REFERENCE ELEVATIONS ON THE SITE.
- THE GENERAL CONTRACTOR SHALL COORDINATE AND BE RESPONSIBLE FOR THE APPROVED SIZE AND LOCATION OF ALL OPENINGS THROUGH ROOF, FLOORS AND WALLS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL REPORT ANY VARIATIONS FOUND AT THE SITE, PRIOR TO PROCEEDING WITH THAT PART OF THE WORK.
- ALL DETAILS SHALL BE CONSIDERED AS TYPICAL, AND APPLY FOR THE SAME AND SIMILAR CONDITIONS, UNLESS OTHERWISE SPECIFICALLY NOTED.
- THE CONTRACTOR SHALL FURNISH AND BE SOLELY RESPONSIBLE FOR ALL TEMPORARY BRACING AND SHORING REQUIRED TO MAINTAIN STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
- DESIGN CODE = MUBEC 2018 / IBC 2015 / ASCE 7-10

OCCUPANCY RISK CATEGORY II

LIVE LOAD -	
OFFICE	50 PSF
MECHANICAL ROOMS	200 PSF
LOBBIES, STAIRS AND EXITS	100 PSF
CORRIDORS (1ST FLOOR)	100 PSF

SNOW LOAD -

P _g = 90 PSF	
C _p = 1.0	
C _t = 1.0	
I _s = 1.0 BUILDING	
I _s = 1.2 CANOPIES	
P _f = 63 PSF BUILDING	
P _d = 64 PSF	W _d = 10 ft
P _f = 76 PSF CANOPIES	
P _d = 28 PSF	W _d = 9 ft

WIND LOAD -

BASIC WIND SPEED:	
V _{ult} = 115 MPH (3 SEC. GUST)	
V _{asfj} = 90 MPH	
I _w = 1.0 (CATEGORY II)	
EXPOSURE "C",	
INT. PRESSURE COEF. = GCPL = +/- 0.18	
COMPONENTS & CLADDING PRESSURE	
BUILDING WALLS = +/- 24 PSF	
BUILDING ROOF = +/- 32 PSF	
CANOPY WALLS = +/- 34 PSF	
CANOPY ROOF = +/- 46 PSF	

SEISMIC LOAD -

SEISMIC USE GROUP - II	
I _e = 1.0	
S _{ds} = 0.221; S _{d1} = 0.121	
SITE CLASS = D	
SEISMIC DESIGN CATEGORY = B	
S.F.R. SYSTEM = STEEL SYSTEM NOT SPECIFICALLY DESIGNED FOR SEISMIC RESISTANCE	
ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE	
BASE SHEAR - V = 0.074W	
C _s = .074 R = 3.00	

FOUNDATION NOTES

- ALL FOOTINGS SHALL REST ON SOIL HAVING A MINIMUM SAFE LOAD BEARING CAPACITY OF 1.25 TONS PER SQUARE FOOT
- BACKFILL WITH ACCEPTED MATERIALS ONLY. BACKFILLING UNDER SLABS, AROUND PIERS AND ON EACH SIDE OF FOUNDATION WALLS SHALL BE DONE IN LAYERS NOT TO EXCEED 10"; COMPACTION SHALL BE 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT.
- EXCAVATIONS SHALL BE PROTECTED FROM FROST IN COLD WEATHER.
- CONCRETE WALLS SHALL BE TEMPORARILY BRACED AGAINST EARTH PRESSURE AND POSSIBLE LATERAL CONSTRUCTION LOADS, AS NECESSARY, UNTIL SLABS, BEAMS OR COLUMNS DESIGNED TO LATERALLY BRACE THE FINISHED STRUCTURE HAVE BEEN PUT IN PLACE AND HAVE ATTAINED THE REQUIRED STRENGTHS. TAKE CARE NOT TO BACKFILL AGAINST WALLS UNTIL THEY ARE ADEQUATELY BRACED.
- CONCRETE FOUNDATIONS BEARING DIRECTLY ON SOLID ROCK LEDGE SHALL BE PINNED TO THE LEDGE. PROVIDE A MINIMUM OF (2)- #6 GRADE 60 DEFORMED STEEL REINFORCEMENT BARS AT 2'-0" O.C. MAXIMUM SPACING ALONG CONTINUOUS STRIP FOOTINGS, AND 4- #6 BARS MINIMUM AT EACH SPREAD FOOTING, U.O.N.; DRILL AND EPOXY-GROUT BARS TO PROVIDE A MINIMUM 8" SOLID EMBEDMENT INTO THE LEDGE.

CONCRETE NOTES

- STRENGTH OF CONCRETE AT 28 DAYS SHALL BE 4000 PSI MIN. FOR NEW FOOTINGS, WALLS AND SLABS. SLABS ON GRADE OR METAL DECK SHALL BE 4500 PSI CONCRETE (MIN.).
- SEE MECHANICAL DRAWINGS FOR LOCATIONS OF ANY CONCRETE PADS, PIERS, PIPE SLEEVES, ETC.
- CONCRETE WALLS SHALL BE ADEQUATELY SHORED UNTIL CONCRETE SLAB IS PLACED AND CURED.

CONCRETE REINFORCING NOTES

- ALL REINFORCING STEEL TO BE ASTM-A615 GRADE 60, DETAILED AND FABRICATED IN ACCORDANCE WITH THE "ACI MANUAL OF STANDARD PRACTICE" (ACI-315-LATEST), USE GRADE 40 FOR STIRRUPS & TIES.
- REINFORCEMENT TO HAVE MIN. CONCRETE COVER AS FOLLOWS:
A. CONCRETE DEPOSITED AGAINST GROUND, INCLUDING FOOTINGS: 3".
B. CONCRETE EXPOSED TO EARTH OR WEATHER INCLUDING WALLS, PIERS, WALLS, COLUMNS AND EXTERIOR SLABS: 2".
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
I. SLABS, WALLS AND JOISTS: 3/4"
II. BEAMS AND COLUMNS, TIES, STIRRUPS: 1-1/2"
- MESH REINFORCEMENT SHALL BE IN ACCORDANCE WITH ASTM A185 AND A82; MINIMUM YIELD STRESS = 70,000 PSI.
- PROVIDE ADEQUATE KEYS AND DOWELS AT ALL WALL INTERSECTIONS AND CONSTRUCTION JOINTS.
- LAP ALL REINFORCEMENT 40 BAR DIAMETERS @ SPLICES AND CORNERS, 2'-0" MINIMUM, UNLESS SHOWN OTHERWISE. ALL BARS MARKED "CONT." (CONTINUOUS) SHALL BE LAPPED 40 BAR DIAMETERS AT SPLICES AND CORNERS, AND ENDS SHALL BE HOOKED OR EXTENDED 2'-0" MINIMUM.
- AT ALL OPENINGS IN STRUCTURAL SLABS, PROVIDE ONE HALF THE NUMBER OF INTERRUPTED BARS PLACED ON EACH SIDE OF THE OPENING AND STAGGERED WITH OTHER SLAB BARS. PROVIDE #4 X 5'-0" LONG DIAGONAL BAR TOP AND BOTTOM AT EACH CORNER OF OPENING, U.O.N.
- PROVIDE DOWELS IN WALLS AND COLUMN FOOTINGS EQUIVALENT IN SIZE AND NUMBER TO VERTICAL STEEL INTO FOOTING AND 40 X BAR DIAMETER INTO WALL OR COLUMN, U.O.N. ALL DOWELS SHALL BE SET IN PLACE BEFORE CONCRETE IS PLACED.
- "DISCONTINUOUS ENDS OF ALL TOP REINFORCING BARS TO BE HOOKED, USING ACI "STANDARD" HOOKS, U.O.N.
- ALL CONCRETE SLABS, PADS, BEAMS AND PIERS SHALL HAVE REINFORCEMENT THAT WILL PROVIDE A MIN. RATIO OF REINFORCEMENT AREA TO GROSS CONCRETE AREA OF 0.0033 (U.O.N.)
- PROVIDE PROPER HIGH CHAIRS, SPACERS AND SUPPORTS TO HOLD REINFORCING IN PLACE.
- ALL WOOD NAILERS ON CONCRETE OR MASONRY ARE TO BE ANCHORED WITH 1/2" DIA. ANCHOR BOLTS SPACED AT 2'-8" O.C., AND EXTENDED 1'-0" INTO CONCRETE OR MASONRY
- CONCRETE FILL FOR BEAM LINTEL BLOCKS, BOND BEAMS AND CONCRETE BLOCKS USED AS SOLID MASONRY UNITS TO BE CONCRETE TESTING 3,000 PSI AT 28 DAYS.

CONCRETE REPAIR NOTES

- CONTRACTOR SHALL PROVIDE FOR THE REPAIR OF THE EXISTING CONCRETE WHERE CONCRETE IS SPALLING OR DELAMINATING AND CONCRETE REINFORCING IS EXPOSED OR RUSTING
- REMOVE ANY LOOSE OR UNSOUND CONCRETE FROM THE WALLS AND FLOORS OF EXISTING CONSTRUCTION.
- REMOVE CONCRETE FROM AROUND RUSTING OR EXPOSED REINFORCING STEEL. PROVIDE ONE INCH OF CLEARANCE BETWEEN THE REINFORCING STEEL AND REMAINING SOUND SOLID CONCRETE.
- CONCRETE REMOVAL SHALL HAVE SQUARE SHOULDERS AT THE PERIMETER, WITH A MINIMUM DEPTH AT THE EDGE OF AT LEAST 3/4".
- REMOVE LOOSE RUST FROM REINFORCING STEEL WITH WIRE BRUSH.
- REMOVE ALL LOOSE CONCRETE AND DUST AND DEBRIS FROM REPAIR AREA PRIOR TO APPLYING CONCRETE PATCH.
- APPLY CONCRETE PATCH REPAIR MATERIAL AND CURE ACCORDING TO MANUFACTURER'S REQUIREMENTS.

STRUCTURAL STEEL NOTES

- MATERIAL: STEEL SHAPES SHALL BE ASTM A992 GR. 50 (F_y = 50 KSI); STEEL TUBES: ASTM A500 GR. B (F_y = 46 KSI). STRUCTURAL CHANNELS, ANGLES, PLATE, ROD & BAR: ASTM A36 (F_y = 36 KSI)
- WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", LATEST EDITION.
- ALL SHOP CONNECTIONS SHALL BE WELDED. FIELD CONNECTIONS SHALL BE BOLTED OR WELDED.
- BOLTS SHALL BE ASTM A325 HIGH-STRENGTH, 3/4" DIAMETER, MINIMUM U.O.N.; ASTM A490 WHERE INDICATED. ALL WELDS SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE AMERICAN WELDING SOCIETY, AND OF AWS CODE D1.1. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS. ALL WELDERS SHALL BE APPROVED BY THE OWNER. USE E70XX SERIES ELECTRODES. MINIMUM FILLET WELD SIZE IS 3/16".
- ANCHORS FOR STRUCTURAL STEEL SHALL BE LOCATED USING TEMPLATES, TO ENSURE PROPER ANCHOR LOCATION AND PLACEMENT. ANCHORS TO CONCRETE SHALL BE ASTM F1554 GRADE 36 (F_y = 36 KSI), 3/4" DIAMETER, MINIMUM, UNLESS OTHERWISE NOTED ON PLANS.
- ALL STEEL CONNECTIONS NOT SPECIFICALLY DETAILED IN STRUCTURAL DRAWINGS ARE TO BE ANALYZED AND DETAILED BY A MAINE LICENSED PROFESSIONAL ENGINEER HIRED BY THE STEEL FABRICATOR. THE COMPLETE CONNECTION DESIGN PACKAGE WITH ALL SUPPORTING CALCULATIONS SHALL BE STAMPED BY THE PROFESSIONAL ENGINEER AND FORWARDED TO THE PROJECT ENGINEER OF RECORD PRIOR TO OR WITH THE STRUCTURAL STEEL SHOP DRAWINGS FOR REVIEW AND APPROVAL. SHOP DRAWINGS WILL NOT BE REVIEWED WITHOUT ALL SUPPORTING CONNECTION CALCULATIONS PROVIDED.
- LOAD REACTIONS, WHERE INDICATED ON DRAWINGS, ARE UNFACTORED TOTAL LOADS (ASD), UNLESS OTHERWISE NOTED.

- ALL STEEL TO BE IN EXTERIOR USE OR TO BE EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED, TYPICALLY.
- BASE PLATES AND BEARING PLATES SHALL BE GROUTED WITH NON-SHRINK GROUT AND AT PROPER GRADE, BEFORE PLACING STEEL.
- CONTRACTOR SHALL APPLY 2 BRUSH COATS OF ASPHALT TO COLUMNS AND BASE PLATES EXPOSED TO FILL AFTER COLUMN IS IN PLACE.
- STEEL BEAMS TO RECEIVE WOOD NAILERS SHALL HAVE BOLT HOLES DRILLED FOR 1/2" DIA. BOLTS @ 2'-8" +/- O.C. STAGGERED, MINIMUM.
- PROVIDE LOOSE STEEL LINTELS AS LISTED BELOW OVER OPENINGS IN MASONRY WALLS, UNLESS OTHERWISE SHOWN ON DRAWINGS:
OPENINGS UNDER 4'-0" WIDE: L 4" X 3 1/2" X 5/16" (LLV)
OPENINGS 4'-0" TO 8'-0" WIDE: L 5" X 3 1/2" X 5/16" (LLV)
PROVIDE ONE ANGLE FOR EACH 4" OF WALL THICKNESS. LENGTH = M.O. + 16"

OPEN WEB STEEL JOIST NOTES

- ALL STEEL MATERIALS USED IN THE MANUFACTURE OF JOIST WEB AND CHORD SECTIONS SHALL BE 50,000 PSI MINIMUM YIELD STRENGTH STEEL.
- DESIGN FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE AND THE REQUIREMENTS OF THE LATEST STATE AND LOCAL BASIC BUILDING CODE.
- ALL JOISTS ARE TO BE WELDED CONSTRUCTION, K- OR LH- SERIES JOISTS, AS INDICATED ON THE PLANS.
- CAMBER ALL JOISTS AS PER STEEL JOIST INSTITUTE SPECIFICATIONS.
- PROVIDE BRIDGING FOR JOISTS IN ACCORDANCE WITH STEEL JOIST INSTITUTE RECOMMENDATIONS, OR AS INDICATED ON PLANS.
- END SUPPORTS FOR K SERIES STEEL JOISTS:
A. THE ENDS OF JOISTS SHALL EXTEND A DISTANCE OF NOT LESS THAN 2-1/2" OVER STEEL SUPPORTS, AND WHEN LOADED FROM ONE SIDE ONLY, AT LEAST 1" OVER STEEL SUPPORT CENTERLINE.
- JOISTS AT COLUMN LINES SHALL BE FIELD BOLTED TO THE COLUMNS WITH, MINIMUM, 2- 3/4" BOLTS.
- THE ENDS OF JOIST BRIDGING LINES TERMINATING AT WALLS OR BEAMS SHALL BE ANCHORED THERETO, BY BOLTING OR WELDING.
- VERIFY WITH MECHANICAL DRAWINGS FOR LOCATION OF DUCTS, PIPING, ETC., THROUGH FLOOR AND ROOF CONSTRUCTION BEFORE SPACING JOISTS.
- IN ADDITION TO CODE-REQUIRED LOAD CASES, ALL K-SERIES JOISTS SHALL BE DESIGNED TO CARRY 1.0DL + 2.0K POINT LOAD ANY LOCATION ALONG BOTTOM CHORD.

STEEL DECK NOTES

- ROOF DECK TYPE "B" OR "BA" WHERE INDICATED, 1 1/2" X 20 GAGE MINIMUM, BY CMC JOIST & DECK, INC., OR APPROVED OTHER.
DECK ATTACHMENT: 3/4" PUDDLE WELD MIN. PATTERN: 36/4 EXCEPT AS OTHERWISE NOTED; SIDELAPS: #10 SCREWS STITCH AT 24" O.C. MAX. SPACING, MIN. 1 PER SPAN, SEE PLANS.
- FLOOR DECK 1 1/2" 20 GA. TYPE "B-LOK" COMPOSITE STEEL DECK BY UNITED STEEL DECK, INC. OR APPROVED OTHER.
DECK ATTACHMENT: 3/4" PUDDLE WELD MIN. PATTERN: 36/4 EXCEPT AS OTHERWISE NOTED; SIDELAPS: #10 SCREWS STITCH AT 24" O.C. MAX. SPACING, MIN. 1 PER SPAN, SEE PLANS.
- STEEL DECK SHALL BE CONTINUOUS OVER THREE SPANS WHERE POSSIBLE.

STRUCTURAL CONCRETE MASONRY

- ALL STRUCTURAL CONCRETE MASONRY SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION OF HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS ASTM C-90 TYPICAL. ALL CONCRETE MASONRY UNITS SHALL BE MINIMUM 55% SOLID.
- STRUCTURAL MASONRY SHALL HAVE A MINIMUM STRENGTH F_m=1500 PSI.
- MORTAR FOR INTERIOR MASONRY SHALL CONFORM TO ASTM C-270, TYPE N. MORTAR FOR EXTERIOR MASONRY SHALL COMPLY WITH ASTM C-476, TYPE M & S.
- CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED IN MORTAR OR GROUT IN WHICH REINFORCEMENT METAL TIES OR ANCHORS ARE IMBEDDED.
- METAL TIES AND ANCHORS SHALL BE OF CORROSION-RESISTANT METAL OR BE GALVANIZED.
- MASONRY REINFORCEMENT SHALL CONFORM TO ASTM A-82 FOR WIRE REINFORCING.
- ALL ROD REINFORCEMENT SHALL BE DEFORMED BARS CONFORMING TO ASTM A-615, GRADE 60 (F_y = 60 KSI).
- FILL ALL BOND BEAMS AND BLOCK CELLS SOLID WITH 3000 PSI PEA GRAVEL CONCRETE AROUND BARS.
- REINFORCE MASONRY WITH STANDARD "DUR-O-WALL" IN EVERY SECOND HORIZONTAL JOINT, UNLESS OTHERWISE NOTED ON DRAWINGS.
- PROVIDE LOOSE STEEL LINTELS AS LISTED BELOW OVER OPENINGS IN MASONRY WALLS, UNLESS OTHERWISE SHOWN ON DRAWINGS:
OPENINGS UNDER 4'-0" WIDE: L 4" X 3 1/2" X 5/16" (LLV)
OPENINGS 4'-0" TO 8'-0" WIDE: L 5" X 3 1/2" X 5/16" (LLV)
PROVIDE ONE ANGLE FOR EACH 4" OF WALL THICKNESS. LENGTH = M.O. + 16"

LIGHT GAGE STEEL FRAMING

- ALL COLD-FORMED STEEL STUDS, JOIST AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CONFORMS TO THE REQUIREMENTS OF ASTM A446, WITH A MINIMUM YIELD STRESS OF 50 KSI (GRADE D) FOR JOISTS; 33 KSI (GRADE A) FOR STUDS, TRACK, BRIDGING, END ENCLOSURES AND ACCESSORIES.
- ALL STUDS, JOIST AND ACCESSORIES SHALL BE GALVANIZED WITH A G60 COATING, MINIMUM, IN ACCORDANCE WITH ASTM A525.
- CERTIFICATION OF MATERIALS BY THE MANUFACTURER SHALL BE SUBMITTED TO THE ARCHITECT FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- WORK SHALL MEET THE MINIMUM REQUIREMENTS OF THE FOLLOWING STANDARDS:
AISI - "DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS"
AWS - "STRUCTURAL WELDING CODE"
AISC - "MANUAL OF STEEL CONSTRUCTION"
ASTM STANDARDS
ANY PERTINENT STATE AND LOCAL CODES.
- PROVIDE JOIST BRIDGING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE JOIST WEB STIFFENERS AT SUPPORT POINTS, AND END BLOCKING WHERE JOIST ENDS ARE NOT OTHERWISE RESTRAINED FROM ROTATION.
- PRIOR TO FRAMING FABRICATION, SUBMIT SHOP DRAWINGS TO ARCHITECT FOR APPROVAL.
- ALL COLD-FORMED STEEL STUDS, JOISTS AND ACCESSORIES USED AT EXTERIOR WALLS SHALL BE 18 GAGE (0.0428 IN.) MINIMUM MATERIAL THICKNESS.

LUMBER

- ALL LUMBER TO BE SPRUCE-PINE-FIR NO.1/NO.2 PRESSURE TREATED PROVIDING THE FOLLOWING, MINIMUM STRESS VALUES:
EXTREME FIBER BENDING STRESS (F_b) = 875 PSI.
HORIZONTAL SHEAR STRESS (F_v) = 135 PSI.
COMPRESSION PERPENDICULAR TO GRAIN (F_{c+}) = 425 PSI.
TENSION PARALLEL TO GRAIN (F_t) = 450 PSI.
COMPRESSION PARALLEL TO GRAIN (F_c) = 1150 PSI.
MODULUS OF ELASTICITY (E) = 1,400,000 PSI.
- ALL LUMBER IN EXTERIOR OR WET USE, OR IN CONTACT WITH EARTH OR CONCRETE TO BE SOUTHERN PINE NO.2, PRESSURE TREATED, UNLESS OTHERWISE NOTED, PROVIDING THE FOLLOWING, MINIMUM STRESS VALUES:
EXTREME FIBER BENDING STRESS (F_b) = 1250 PSI.
HORIZONTAL SHEAR STRESS (F_v) = 175 PSI.
COMPRESSION PERPENDICULAR TO GRAIN (F_{c+}) = 565 PSI.
TENSION PARALLEL TO GRAIN (F_t) = 725 PSI.
COMPRESSION PARALLEL TO GRAIN (F_c) = 1600 PSI.
MODULUS OF ELASTICITY (E) = 1,600,000 PSI.
- ALL FLUSH FLOOR FRAMING IS TO BE SUPPORTED BY GALVANIZED METAL HANGERS. INSTALL ALL METAL HANGERS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- BOLTS FOR WOOD TO WOOD OR WOOD TO STEEL CONNECTIONS SHALL BE ASTM A307, 1/2" DIAMETER, MINIMUM, UNLESS NOTED OTHERWISE ON PLANS.
- ALL LUMBER TO BE IN CONTACT WITH CONCRETE OR EARTH SHALL BE PRESSURE-TREATED WITH OCA PRESERVATIVE OR APPROVED OTHER WOOD PRESERVATIVE.
- ALL LAMINATED VENEER LUMBER (LVL) SHALL PROVIDE THE FOLLOWING MINIMUM ALLOWABLE STRESS VALUES:
EXTREME FIBER BENDING STRESS (F_b) = 2800 PSI.
HORIZONTAL SHEAR STRESS (F_v) = 250 PSI.
COMPRESSION PERPENDICULAR TO GRAIN (F_{c+}) = 410 PSI.
TENSION PARALLEL TO GRAIN (F_t) = 2300 PSI.
COMPRESSION PARALLEL TO GRAIN (F_c) = 2200 PSI.
MODULUS OF ELASTICITY (E) = 1,900,000 PSI.

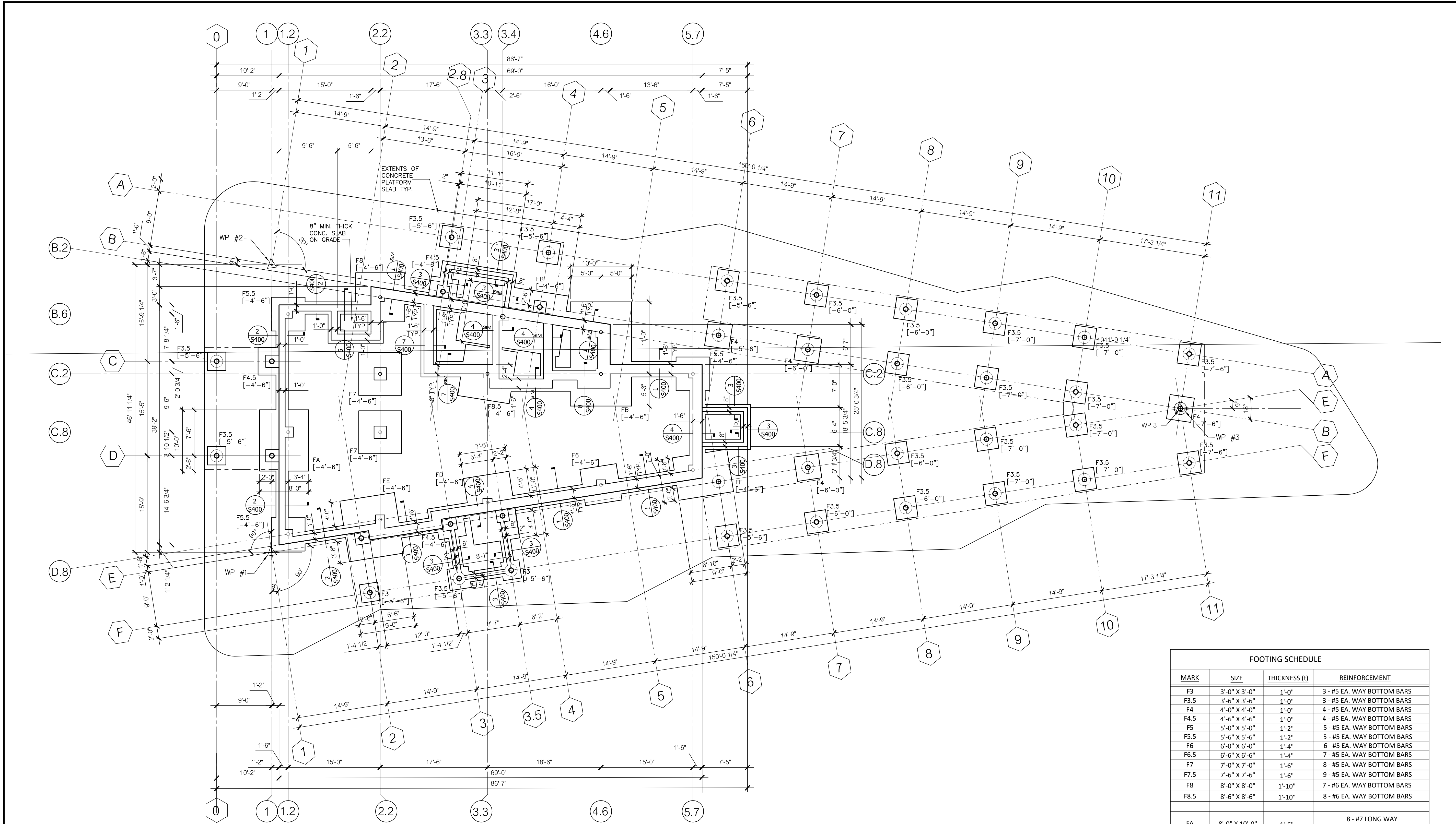
FOOTING PLAN

PROJ. NUMBER:	2020115
REV.	DATE
DRAWN BY:	RML
DESCRIPTION	

CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME

DATE:
MAY 12, 2021

S100



FOOTING PLAN 1
1/8" = 1'-0" S100

NOTES:

- TOP OF CONCRETE FINISH FLOOR ELEVATIONS ARE +0'-0" FROM FINISH CONCRETE SLAB ELEVATION 20'-0" = DATUM EL. +0'-0", UNLESS OTHERWISE NOTED.
- (-XX'-XX") INDICATES TOP OF CONCRETE ELEVATION SEE DWG # S101
- (-XX'-XX") INDICATES TOP OF FOOTING ELEVATION
- PIERS ARE CENTERED WITH COLUMNS, TYP. UNLESS NOTED OTHERWISE
- "NP" INDICATES NO PIER.
- SLAB REINF SHALL BE 6X6-W2.0XW2.0 WWF, TYP. UNLESS NOTED OTHERWISE
- VERIFY LOCATION OF ALL SLAB DEPRESSIONS WITH ARCH'L DRAWINGS AND EQUIPMENT AND PRODUCTS TO BE INSTALLED
- SEE ARCH'L DRAWINGS FOR DOOR OPENING LOCATIONS.
- SEE FOOTING SCHEDULE, THIS SHEET, FOR FOOTING SIZES & REINFORCEMENT.
- SEE PLANS & PIER PART PLANS & DETAILS. FOR CONC. PIERS & PILASTERS. SEE SCHEDULE, DWG #S300 FOR PIER/PILASTER REINFORCEMENT.
- BACKFILL FOR ENGINEERED STRUCTURAL FILL SHALL BE PLACED IN LIFTS OF 10" MAXIMUM & COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT. TEST ALL STRUCTURAL FILL TO BEAR FOUNDATIONS TO VERIFY SOIL BEARING CAPACITY, PRIOR TO CONSTRUCTION OF FOUNDATIONS. REMOVE AND REPLACE ALL FILL THAT FAILS TO MEET MINIMUM SAFE LOAD-BEARING CAPACITY REQUIREMENTS.
- ALL PIPING AND UTILITIES TO BE LOCATED BELOW THE BEARING LEVEL OF FOUNDATIONS SHALL BE INSTALLED & STRUCTURAL FILL PLACED, TESTED AND SAFE BEARING CAPACITY VERIFIED, PRIOR TO THE CONSTRUCTION OF FOUNDATIONS, TYPICALLY. ALL FILL THAT IS BEARING FOUNDATIONS SHALL BE PROTECTED FROM DISTURBANCE ONCE FOOTINGS ARE IN PLACE. EXCAVATION BELOW FOOTINGS ALREADY IN PLACE IS NOT ACCEPTABLE.
- ANY AREAS OF STRUCTURAL FILL THAT ARE REMOVED AND REPLACED WITH NEW SHALL BE RE-TESTED AND THE NEW FILL SAFE SOIL-BEARING CAPACITY VERIFIED.

FOOTING SCHEDULE			
MARK	SIZE	THICKNESS (t)	REINFORCEMENT
F3	3'-0" X 3'-0"	1'-0"	3 - #5 EA. WAY BOTTOM BARS
F3.5	3'-6" X 3'-6"	1'-0"	3 - #5 EA. WAY BOTTOM BARS
F4	4'-0" X 4'-0"	1'-0"	4 - #5 EA. WAY BOTTOM BARS
F4.5	4'-6" X 4'-6"	1'-0"	4 - #5 EA. WAY BOTTOM BARS
F5	5'-0" X 5'-0"	1'-2"	5 - #5 EA. WAY BOTTOM BARS
F5.5	5'-6" X 5'-6"	1'-2"	5 - #5 EA. WAY BOTTOM BARS
F6	6'-0" X 6'-0"	1'-4"	6 - #5 EA. WAY BOTTOM BARS
F6.5	6'-6" X 6'-6"	1'-4"	7 - #5 EA. WAY BOTTOM BARS
F7	7'-0" X 7'-0"	1'-6"	8 - #5 EA. WAY BOTTOM BARS
F7.5	7'-6" X 7'-6"	1'-6"	9 - #5 EA. WAY BOTTOM BARS
F8	8'-0" X 8'-0"	1'-10"	7 - #6 EA. WAY BOTTOM BARS
F8.5	8'-6" X 8'-6"	1'-10"	8 - #6 EA. WAY BOTTOM BARS
FA	8'-0" X 10'-0"	1'-6"	8 - #7 LONG WAY 10 - #7 SHORT WAY, BOTTOM BARS
FB	10'-0" X 17'-0"	1'-10"	10 - #8 LONG WAY 17 - #8 SHORT WAY, BOTTOM BARS
FD	7'-6" X 11'-0"	1'-6"	7 - #8 LONG WAY 10 - #8 SHORT WAY, BOTTOM BARS
FE	9'-0" X 10'-0"	1'-6"	8 - #8 LONG WAY 9 - #8 SHORT WAY, BOTTOM BARS
FF	7'-0" X 9'-0"	1'-6"	7 - #8 LONG WAY 8 - #8 SHORT WAY, BOTTOM BARS

NOTES:

- FOOTINGS ARE TO BEAR ON SOILS HAVING A MIN. SAFE BEARING CAPACITY OF 1.25 TSF, OR ON SOLID ROCK LEGGE.
- CONCRETE FOR FOOTINGS SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 28 DAYS = 4000 PSI.
- STEEL REINF. FOR CONCRETE SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, F_y = 60,000 PSI.

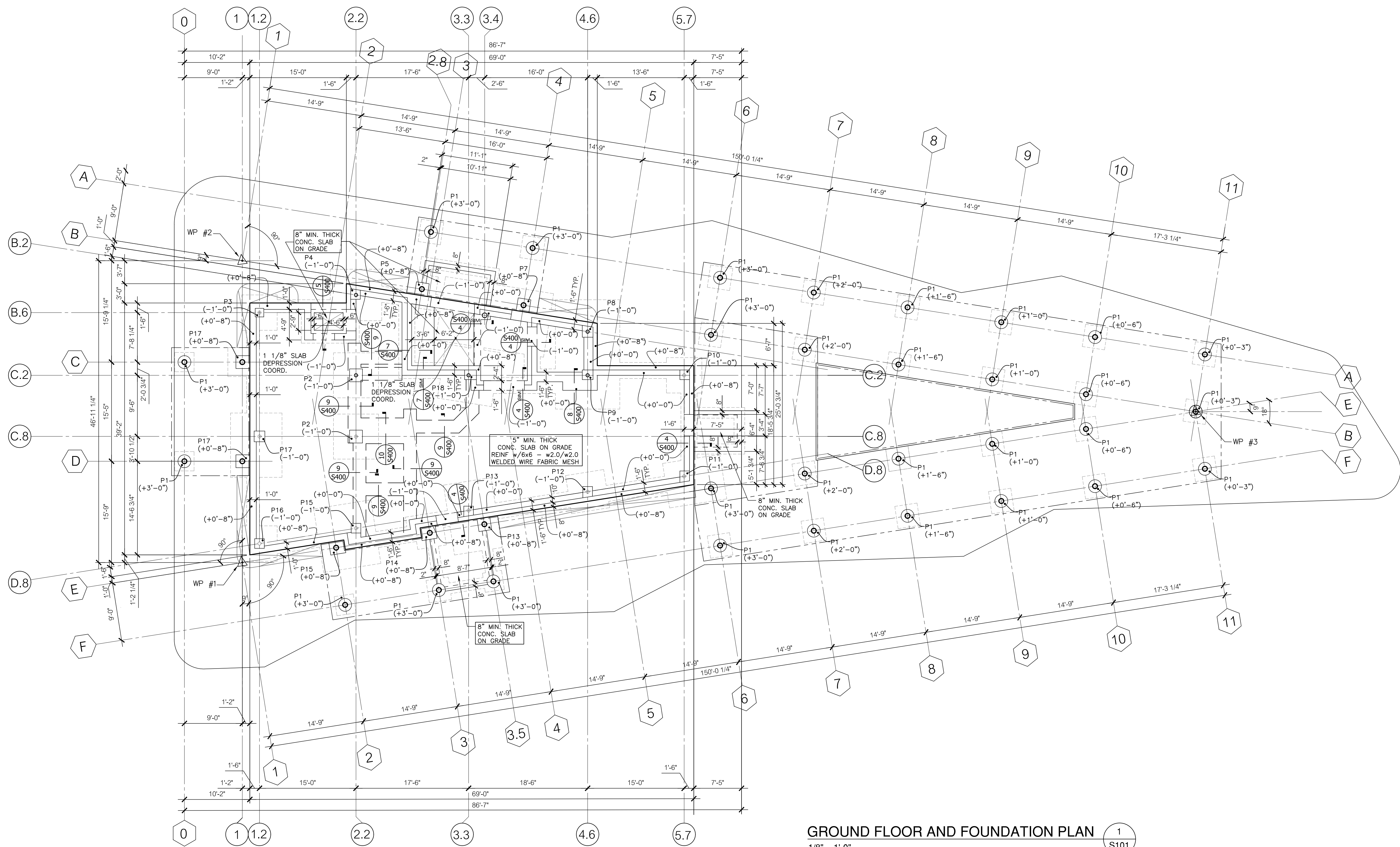
GROUND FLOOR & FOUNDATION PLAN

PROJ. NUMBER:	2020115
REV.	DATE
DRAWN BY:	RML
DESCRIPTION	

CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME

DATE:
MAY 12, 2021

S101



GROUND FLOOR AND FOUNDATION PLAN 1
S101

- 1/8" = 1'-0"
NOTES:
- TOP OF CONCRETE FINISH FLOOR ELEVATIONS ARE +0'-0" FROM FINISH CONCRETE SLAB ELEVATION 20'-0" = DATUM EL. +0'-0", UNLESS OTHERWISE NOTED.
 - (-XX'-XX") INDICATES TOP OF CONCRETE ELEVATION
 - (-XX'-XX") INDICATES TOP OF FOOTING ELEVATION. SEE DWG #S100
 - PIERS ARE CENTERED WITH COLUMNS, TYP. UNLESS NOTED OTHERWISE
 - "NP" INDICATES NO PIER.
 - SLAB REINF SHALL BE 6X6-W2.0XW2.0 WWF, TYP. UNLESS NOTED OTHERWISE
 - VERIFY LOCATION OF ALL SLAB DEPRESSIONS WITH ARCH'L DRAWINGS AND EQUIPMENT AND PRODUCTS TO BE INSTALLED
 - SEE ARCH'L DRAWINGS FOR DOOR OPENING LOCATIONS.
 - PROVIDE THICKENED SLAB HAUNCH AT ALL MASONRY PARTITIONS. SEE DETAILS. SEE ARCH. FOR LOCATIONS & SIZES OF PARTITIONS.
 - BACKFILL FOR ENGINEERED STRUCTURAL FILL SHALL BE PLACED IN LIFTS OF 10" MAXIMUM & COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT. TEST ALL STRUCTURAL FILL TO BEAR FOUNDATIONS TO VERIFY SOIL BEARING CAPACITY, PRIOR TO CONSTRUCTION OF FOUNDATIONS. REMOVE AND REPLACE ALL FILL THAT FAILS TO MEET MINIMUM SAFE LOAD-BEARING CAPACITY REQUIREMENTS.
 - ALL PIPING AND UTILITIES TO BE LOCATED BELOW THE BEARING LEVEL OF FOUNDATIONS SHALL BE INSTALLED & STRUCTURAL FILL PLACED, TESTED AND SAFE BEARING CAPACITY VERIFIED, PRIOR TO THE CONSTRUCTION OF FOUNDATIONS. ALL FILL THAT IS BEARING FOUNDATIONS SHALL BE PROTECTED FROM DISTURBANCE ONCE FOOTINGS ARE IN PLACE. EXCAVATION BELOW FOOTINGS ALREADY IN PLACE IS NOT ACCEPTABLE.
 - ANY AREAS OF STRUCTURAL FILL THAT ARE REMOVED AND REPLACED WITH NEW SHALL BE RE-TESTED AND THE NEW FILL SAFE SOIL-BEARING CAPACITY VERIFIED.
 - FOR GENERAL NOTES APPLICABLE TO THIS SHEET SEE DWG. #S001.
 - FOR COLUMNS, BASE PLATES & ANCHORS SEE COLUMN SCHEDULE DWG'S #S302, #S303

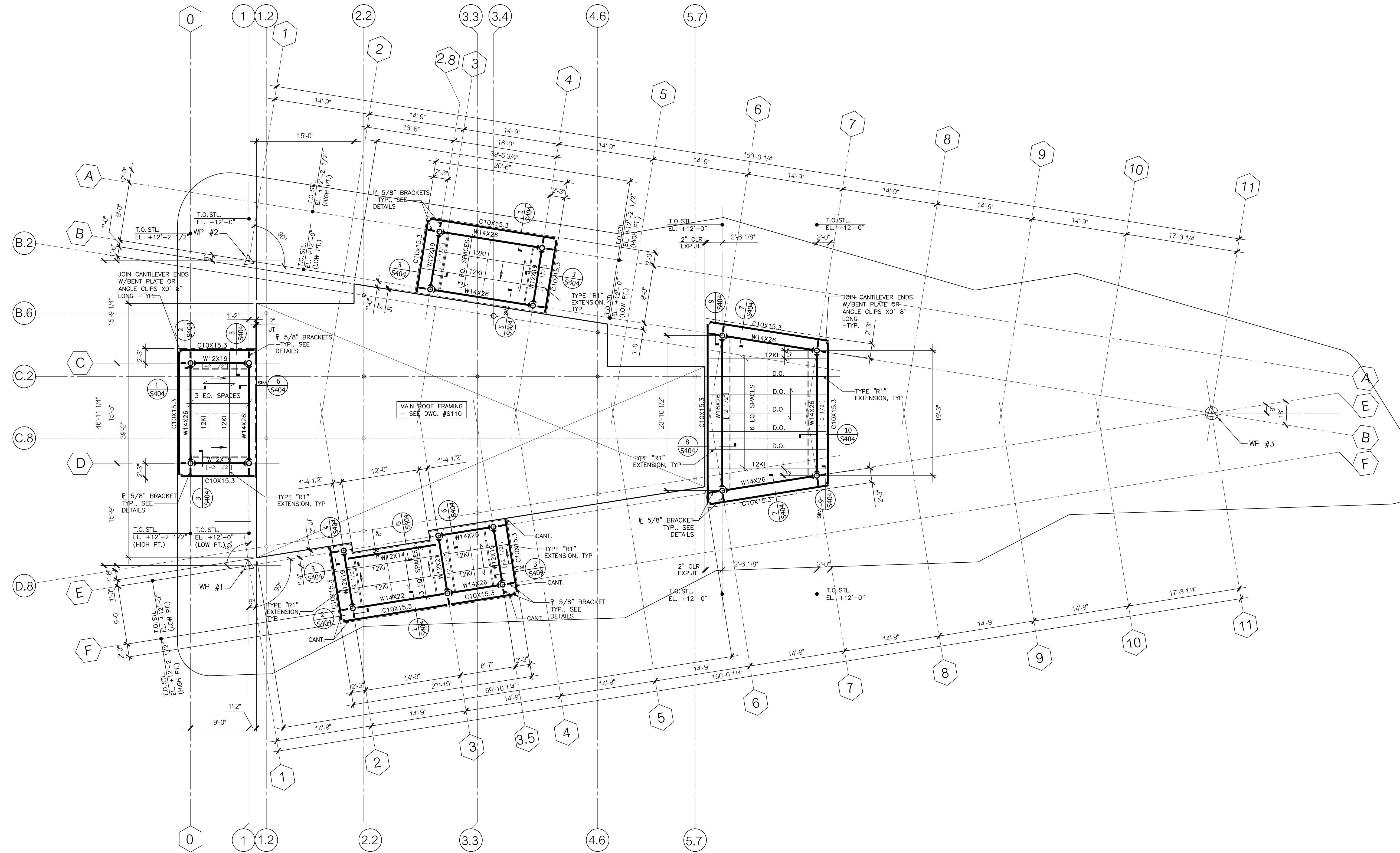
CANOPY FRAMING PLAN

PROJ. NUMBER:	2020115
REV.	DATE
DRAWN BY:	AG/EJ
DESCRIPTION	

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BANGOR TRANSPORTATION CENTER
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DATE:
MAY 12, 2021

S111



CANOPY ROOF FRAMING PLAN 1
1/8" = 1'-0" S111

NOTES:

- TOP OF STEEL ELEVATION LOW POINT IS AT EL. +12'-0"; HIGH POINT = EL. +12'-2 1/2" WITH RESPECT TO DATUM EL. 0'-0" = MAIN BLDG. GROUND FLOOR T.O. FIN. CONCRETE SLAB ON GRADE, U.O.N. ON PLAN. DATUM = EL. +20.00'
- TOP OF STEEL INDICATED ON PLANS THUS: [+/- ____] IS W/ RESPECT TO TYPICAL TOP OF STEEL ELEVATION
- ROOF DECK IS TO BE 1 1/2" DEEP X 20 GAGE TYPE "B" ROOF DECK BY UNITED STEEL DECK, INC., OR APPROVED OTHER, U.O.N.
SPAN DIRECTION OF ROOF DECK IS INDICATED ON PLANS THUS: ←
- FOR STEEL COLUMNS, BASE PLATES, ANCHORS & EXTENTS SEE COLUMN SCHEDULE, DWG #S302

- JOIST BRIDGING IS INDICATED ON PLANS THUS: - - - - -
PROVIDE UPLIFT BRIDGING, NOTED ON PLANS THUS: = = = = =
- LATERAL BRACING LINES ARE INDICATED ON PLANS THUS: - - - - -
SEE BRACING FRAME ELEVATIONS FOR ADDITIONAL INFO.
- MOMENT CONNECTIONS ARE INDICATED ON PLANS THUS: T
- FOR FRAMING PLANS OF CANOPIES, SEE DWG. #S111.
- STEEL SLOPING DOWN FOR DRAINAGE INDICATED THUS: →
- FOR GENERAL NOTES APPLICABLE TO THIS SHEET SEE DWG #S001

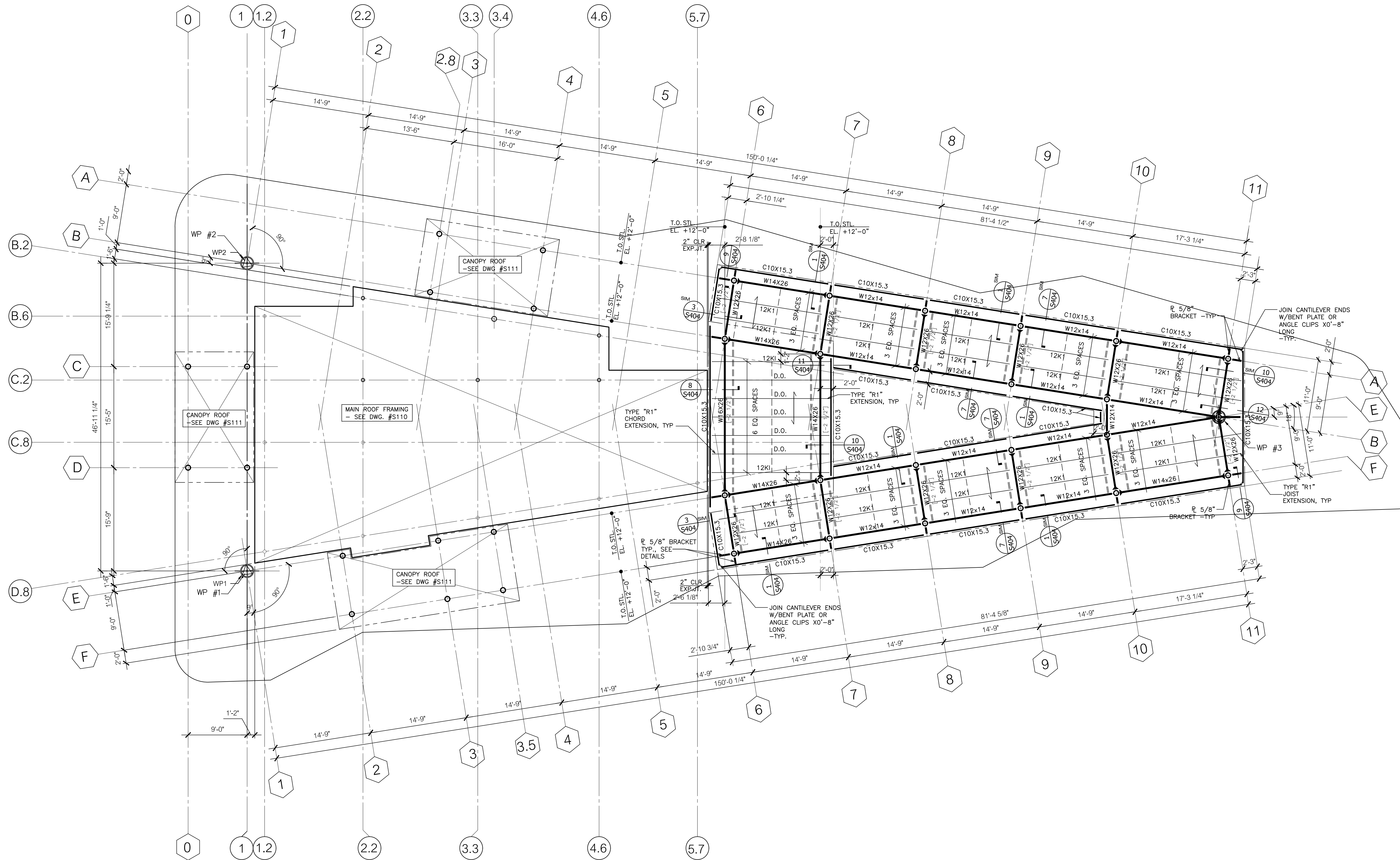
CANOPY ROOF FRAMING PLAN
-ALTERNATE

PROJ. NUMBER:	2020115
REV.	DATE
DRAWN BY:	RNL
DESCRIPTION	

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BANGOR TRANSPORTATION CENTER
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DATE:
MAY 12, 2021

S111A



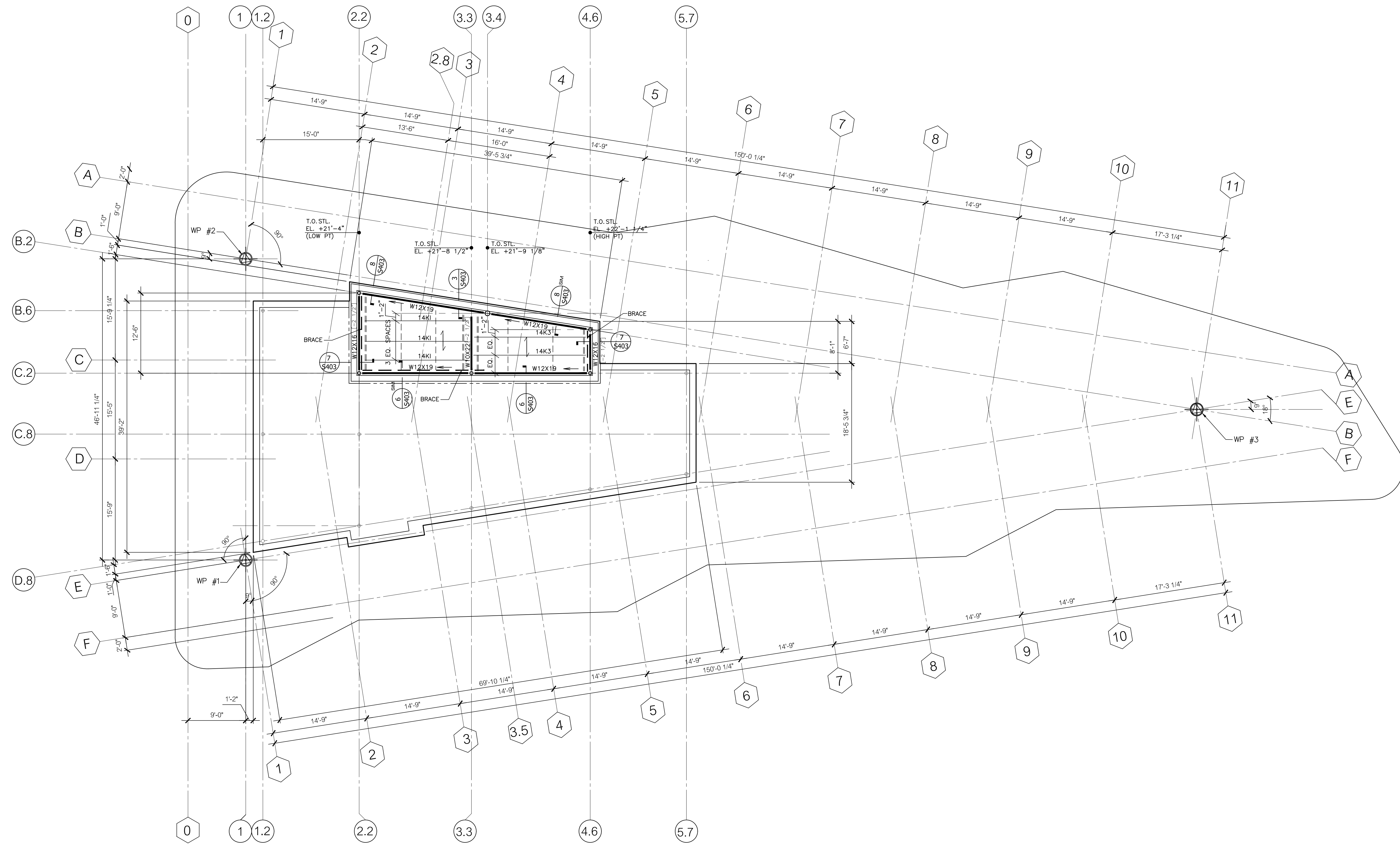
ALTERNATE CANOPY ROOF FRAMING PLAN 1
S111A

1/8" = 1'-0"

NOTES:

- TOP OF STEEL ELEVATION IS AT EL. +12'-0"; WITH RESPECT TO DATUM EL. 0'-0" = MAIN BLDG. GROUND FLOOR T.O. FIN. CONCRETE SLAB ON GRADE, U.O.N. ON PLAN. DATUM = EL. +20.00'
- TOP OF STEEL INDICATED ON PLANS THUS: [+/- ___] IS W/ RESPECT TO TYPICAL TOP OF STEEL ELEVATION
- ROOF DECK IS TO BE 1 1/2" DEEP X 20 GAGE TYPE "B" ROOF DECK BY UNITED STEEL DECK, INC., OR APPROVED OTHER, U.O.N.
SPAN DIRECTION OF ROOF DECK IS INDICATED ON PLANS THUS: \longleftarrow
- FOR STEEL COLUMNS, BASE PLATES, ANCHORS & EXTENTS SEE COLUMN SCHEDULE, DWG #S302, #S303.

- JOIST BRIDGING IS INDICATED ON PLANS THUS: - - - - -
PROVIDE UPLIFT BRIDGING, NOTED ON PLANS THUS: - - - - -
- LATERAL BRACING LINES ARE INDICATED ON PLANS THUS: - - - - -
SEE BRACING FRAME ELEVATIONS FOR ADDITIONAL INFO.
- MOMENT CONNECTIONS ARE INDICATED ON PLANS THUS: \perp
- FOR ADDITIONAL NOTES PERTAINING TO THIS SHEET, SEE DWG #S001
- FOR FRAMING PLANS OF CANOPIES, SEE DWG. #S111.
- STEEL SLOPING DOWN FOR DRAINAGE INDICATED THUS: \rightarrow



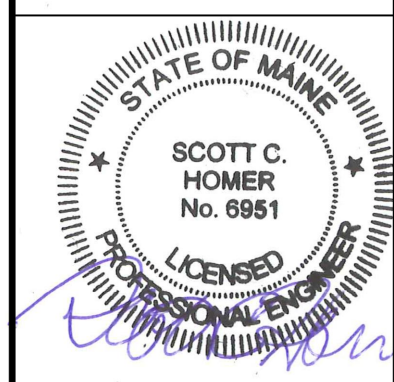
PENTHOUSE ROOF FRAMING PLAN 1
 1/8" = 1'-0" S120

NOTES:

1. TOP OF STEEL ELEVATION LOW POINT IS AT EL. +21'-4"; HIGH POINT = EL. +22'-1 1/4" W/ RESPECT TO DATUM EL. 0'-0" = GROUND FLOOR T.O. FIN. CONCRETE SLAB ON GRADE, U.O.N. ON PLAN. DATUM = EL. +20.00'
2. TOP OF STEEL INDICATED ON PLANS THUS: [+/- ____] IS W/ RESPECT TO TYPICAL TOP OF STEEL ELEVATION, LOW POINT OR HIGH POINT. TOP OF STEEL INDICATED ON PLANS THUS: (+ _____) IS W/ RESPECT TO DATUM.
3. ROOF DECK IS TO BE 1 1/2" DEEP X 20 GAGE TYPE "B" ROOF DECK BY UNITED STEEL DECK, INC., OR APPROVED OTHER, U.O.N.
SPAN DIRECTION OF ROOF DECK IS INDICATED ON PLANS THUS: \longleftrightarrow
4. FOR COLUMN SIZES & EXTENTS, SEE COLUMN SCHEDULE, DWG #S302.
5. JOIST BRIDGING IS INDICATED ON PLANS THUS: - - - - -
PROVIDE UPLIFT BRIDGING, NOTED ON PLANS THUS: = = = = =
6. LATERAL BRACING LINES ARE INDICATED ON PLANS THUS: - - - - -
SEE BRACING FRAME ELEVATIONS FOR ADDITIONAL INFO.
7. MOMENT CONNECTIONS ARE INDICATED ON PLANS THUS: \perp
8. FOR FRAMING PLANS OF CANOPIES, SEE DWG. #S111, S111A
9. STEEL SLOPING DOWN FOR DRAINAGE INDICATED THUS: \searrow
10. FOR GENERAL NOTES APPLICABLE TO THIS SHEET, SEE DWG #S001. \longrightarrow



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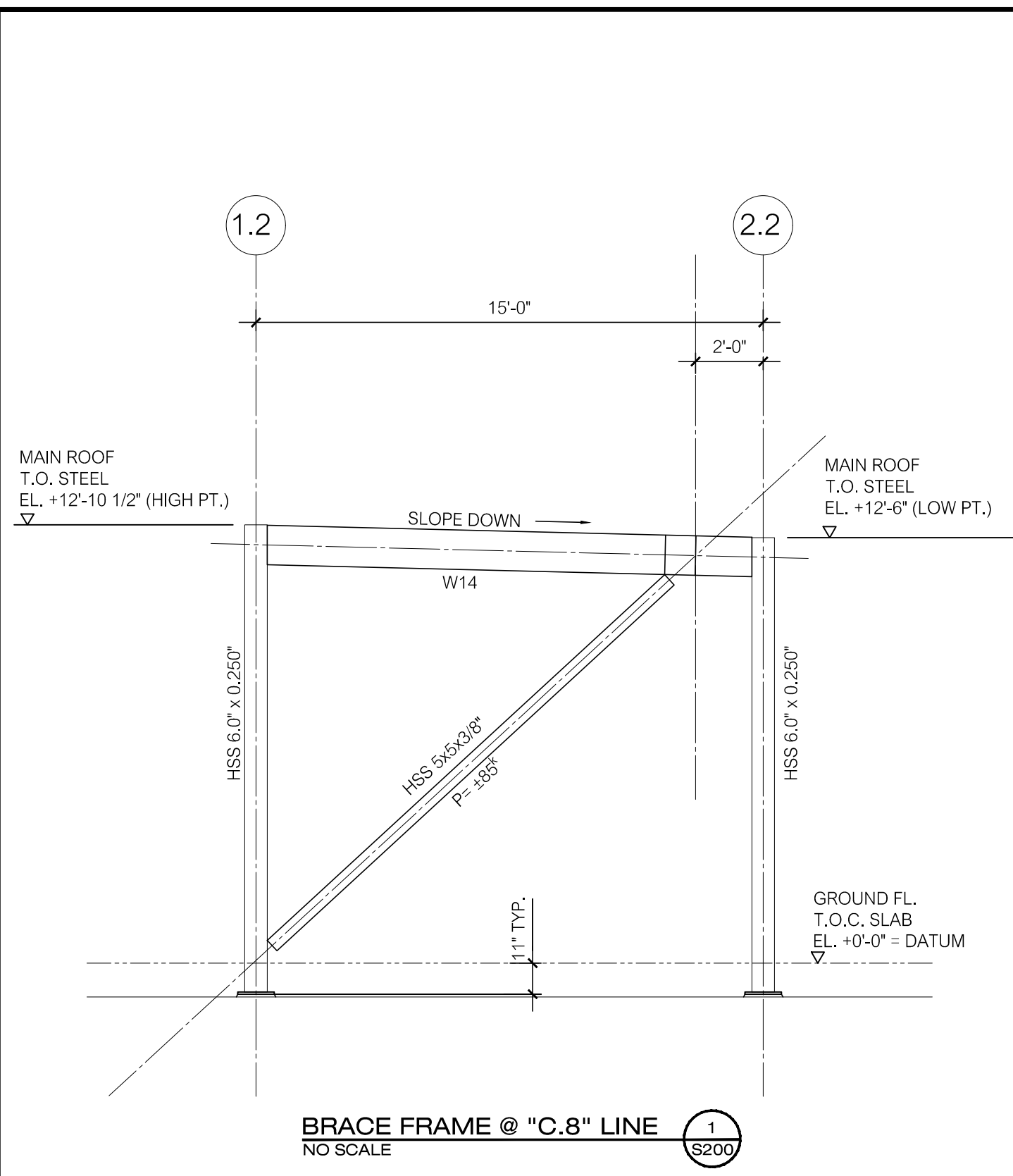
PENTHOUSE ROOF FRAMING PLAN

PROJ. NUMBER:	2020115
REV.	DATE
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DESCRIPTION	

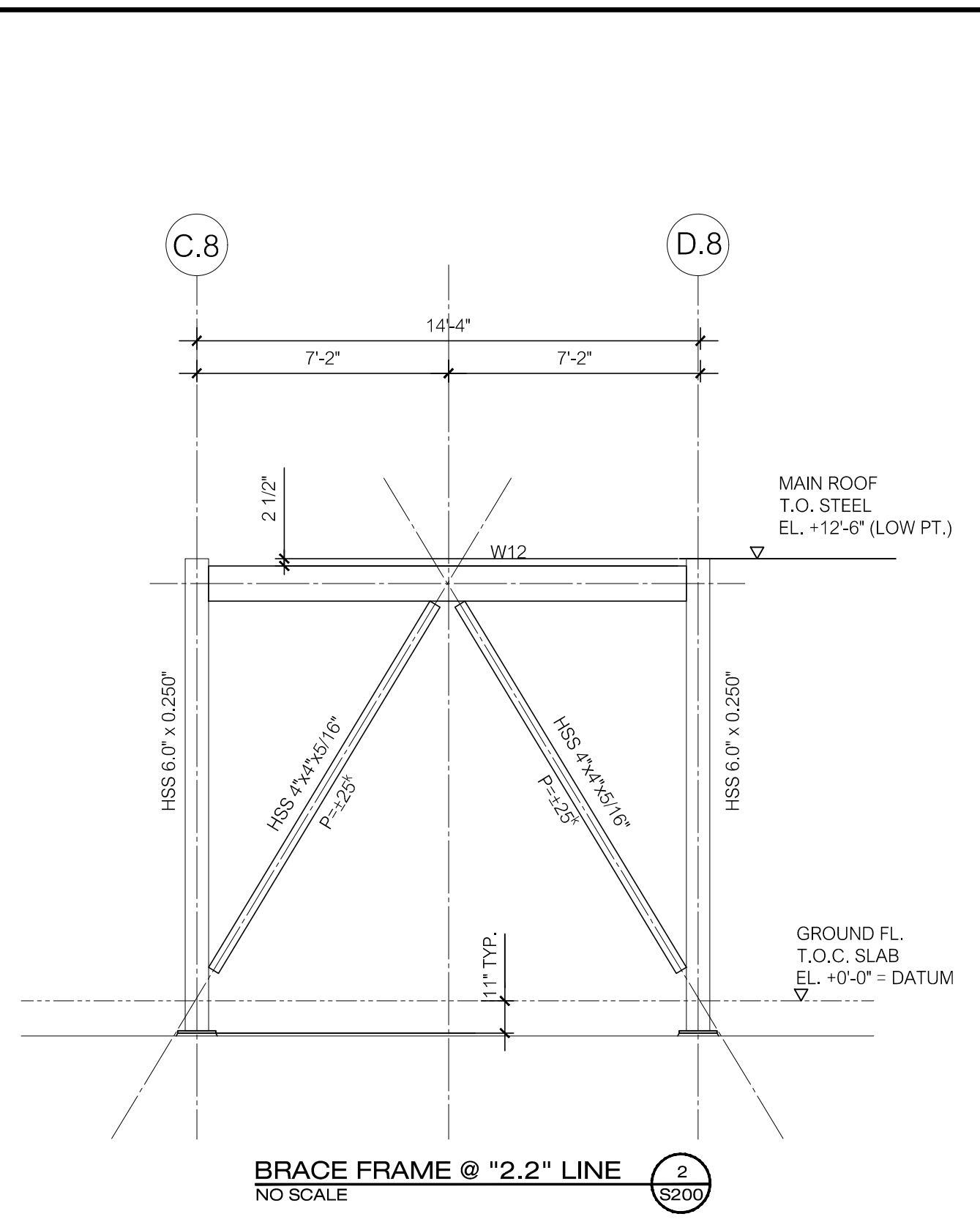
CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME

DATE:
 MAY 12, 2021

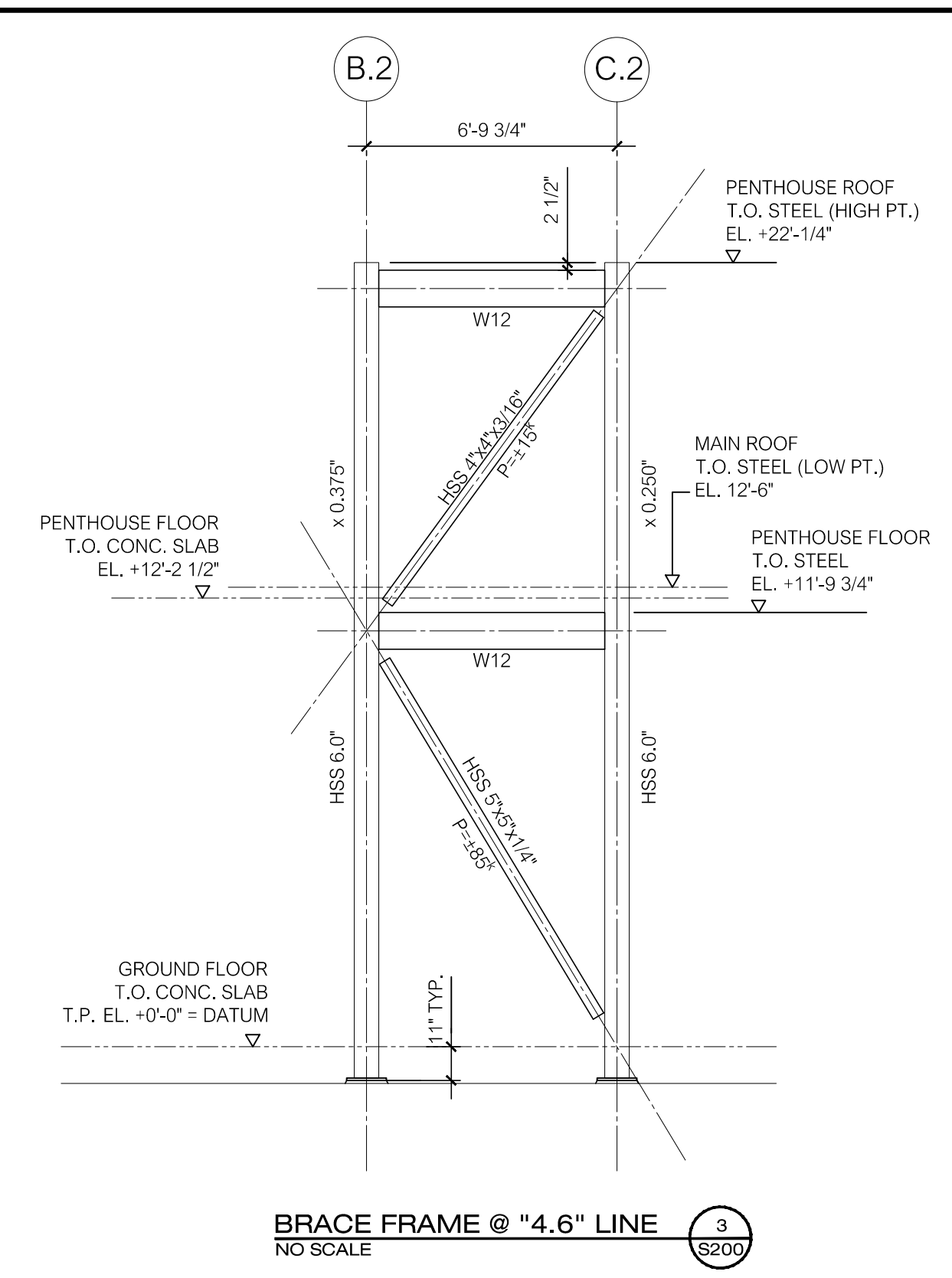
S120



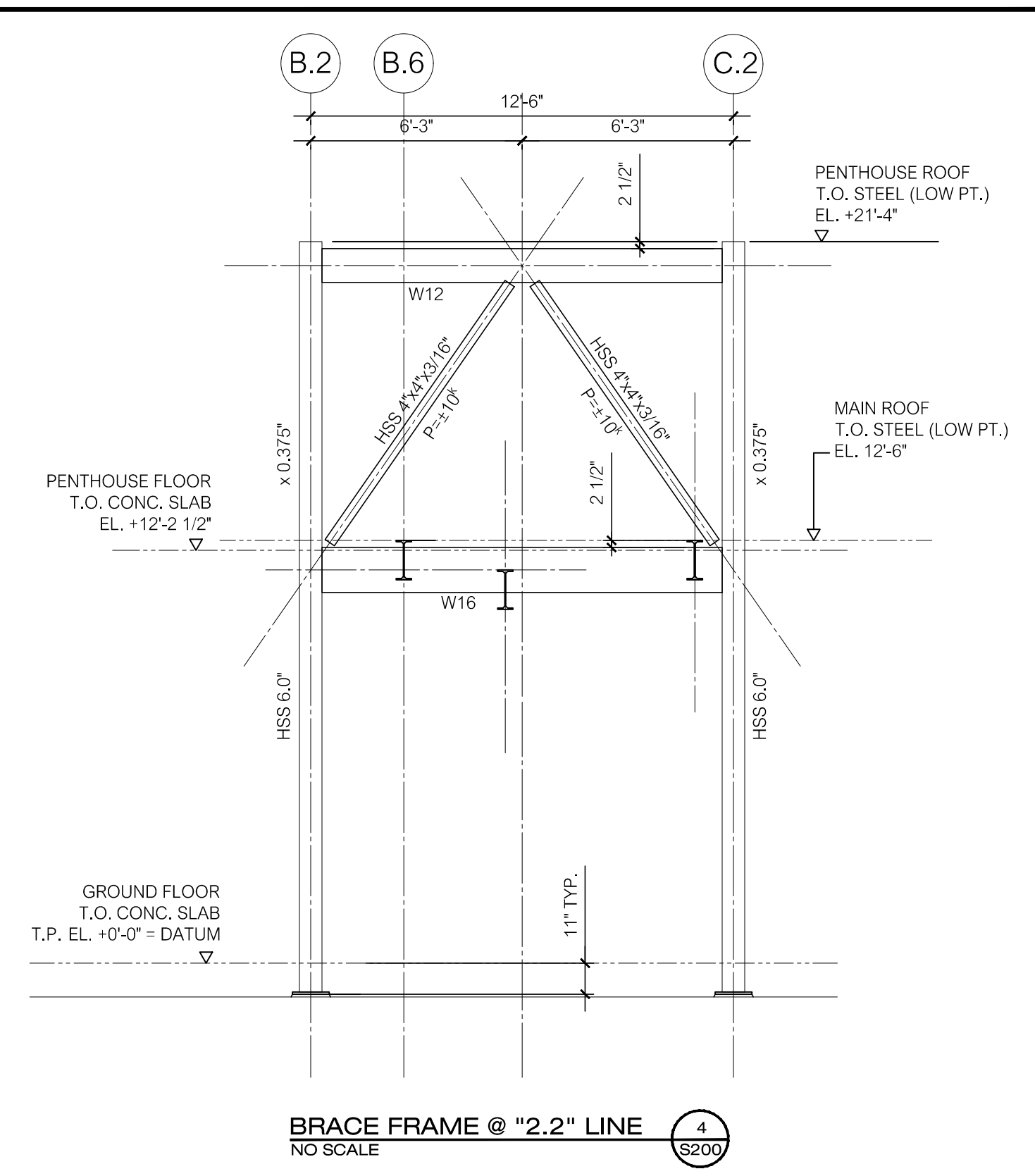
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NO SCALE S200



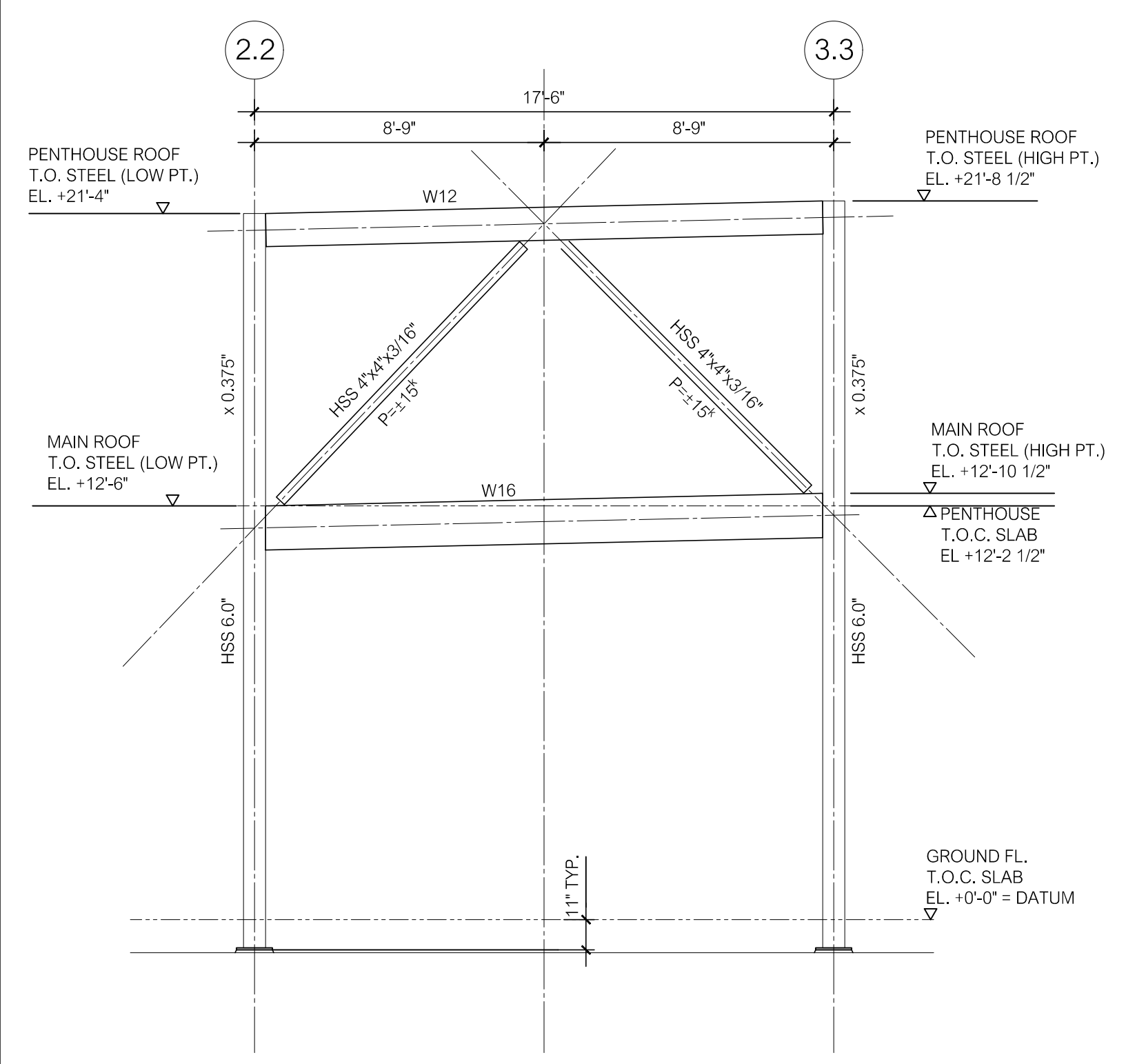
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NO SCALE S200



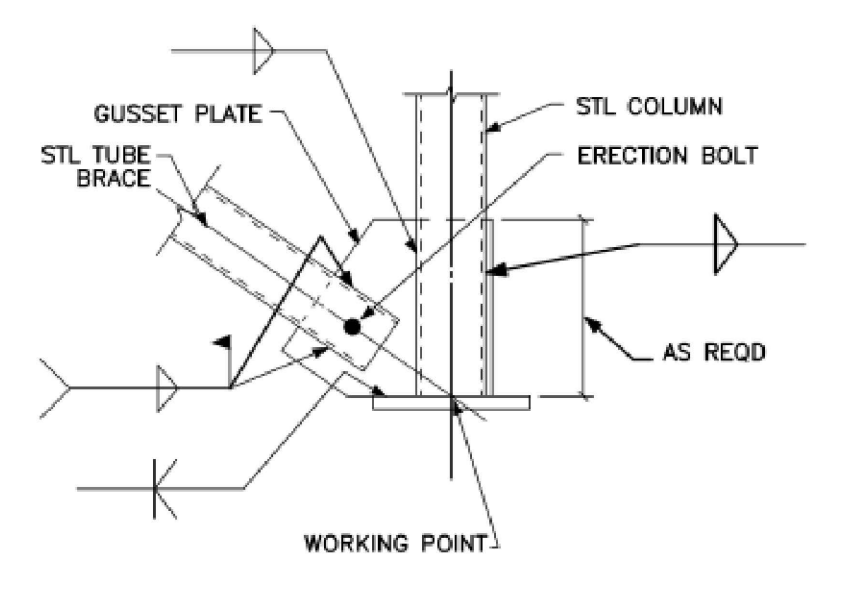
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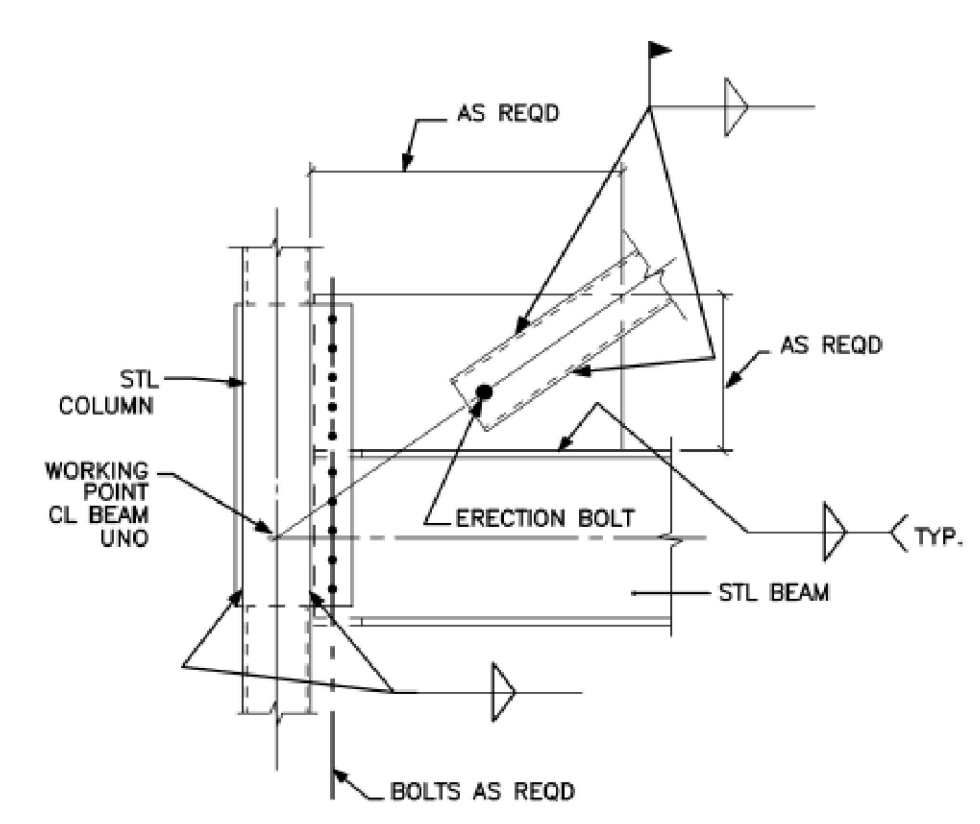
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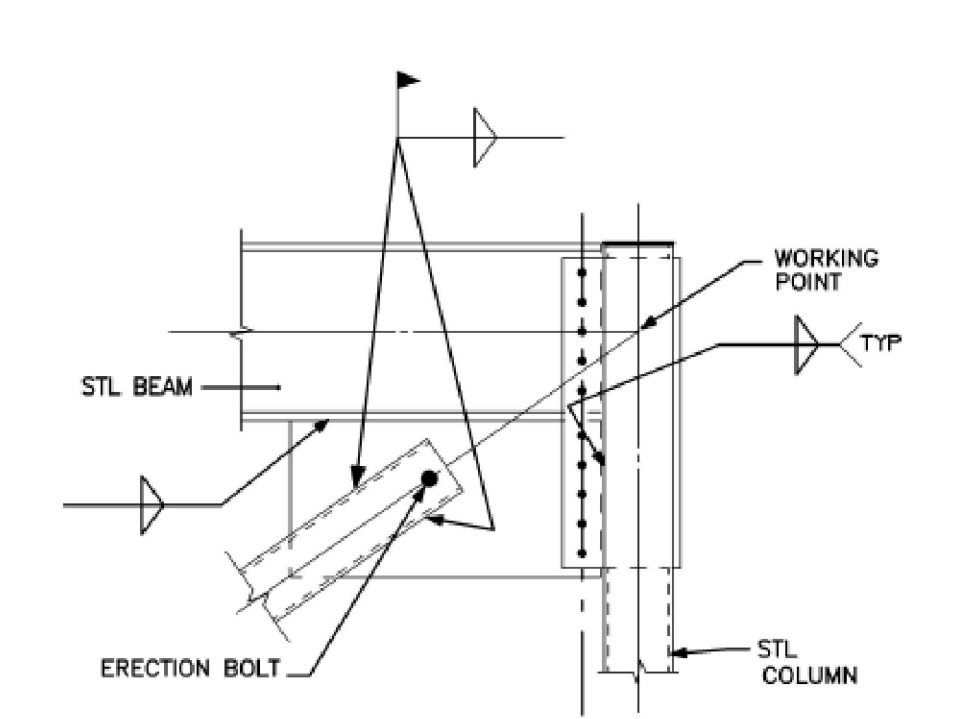
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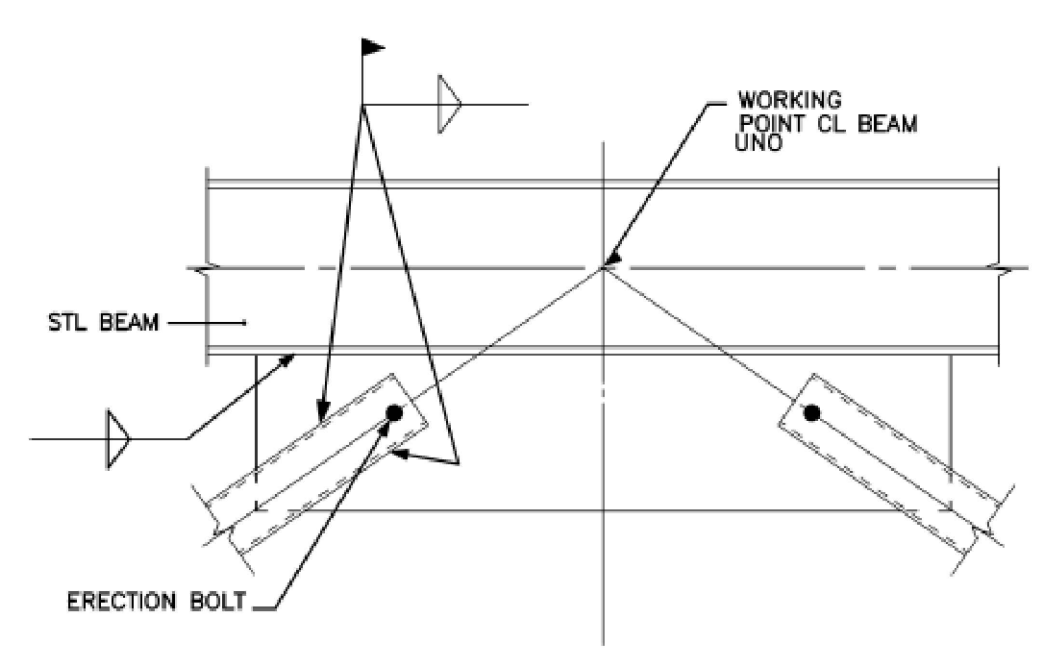
BRACE DETAIL 1
NOT TO SCALE S200



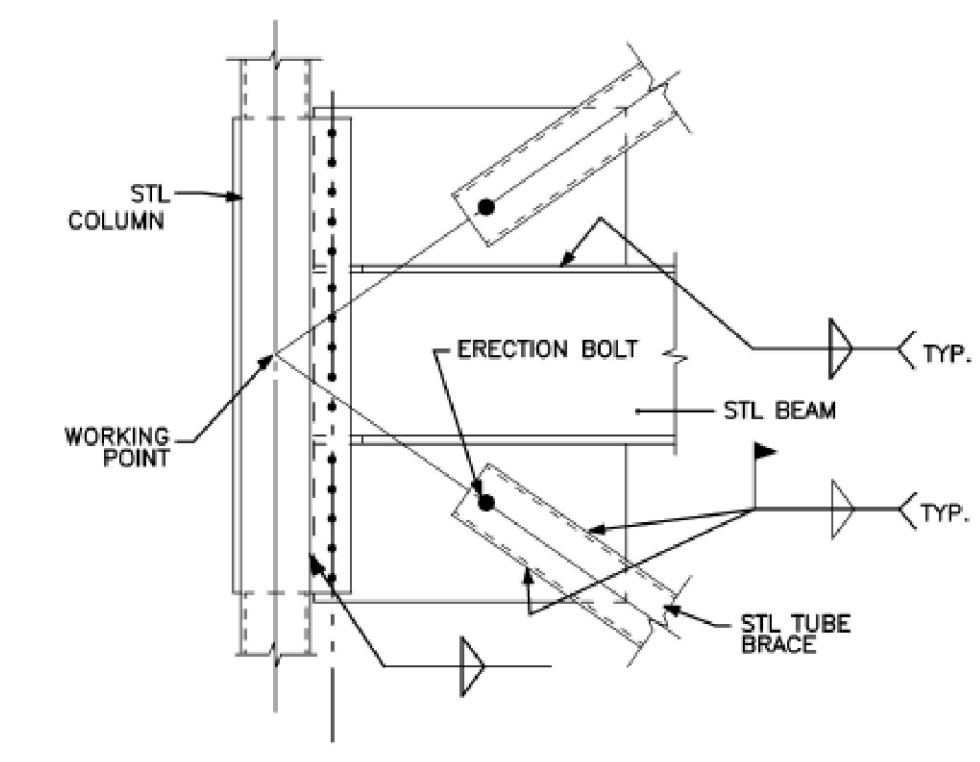
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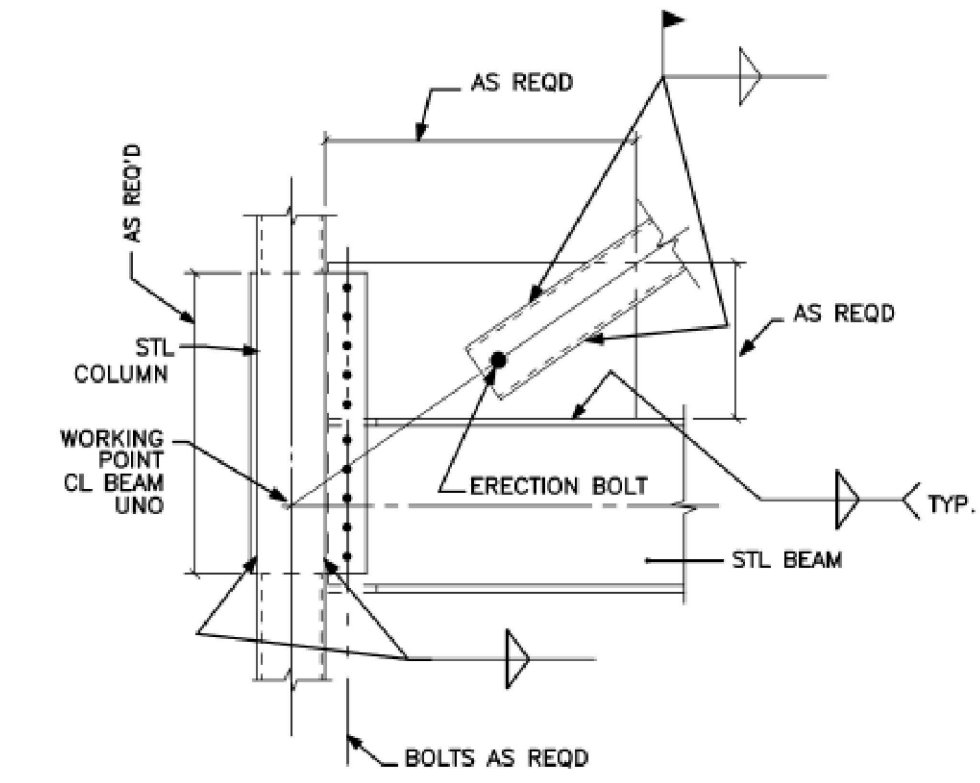
BRACE DETAIL 3
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BRACE DETAIL 4
NOT TO SCALE S200



BRACE DETAIL 5
NOT TO SCALE S200

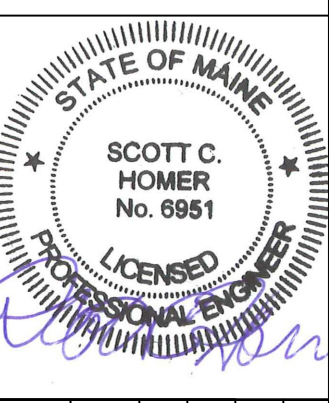


BRACE DETAIL 6
NOT TO SCALE S200

TYP. BRACING NOTES:
1. SAW CUT TUBES
2. BRACING ON COL ϕ



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BRACE FRAME ELEVATIONS

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DATE:
MAY 12, 2021

S200

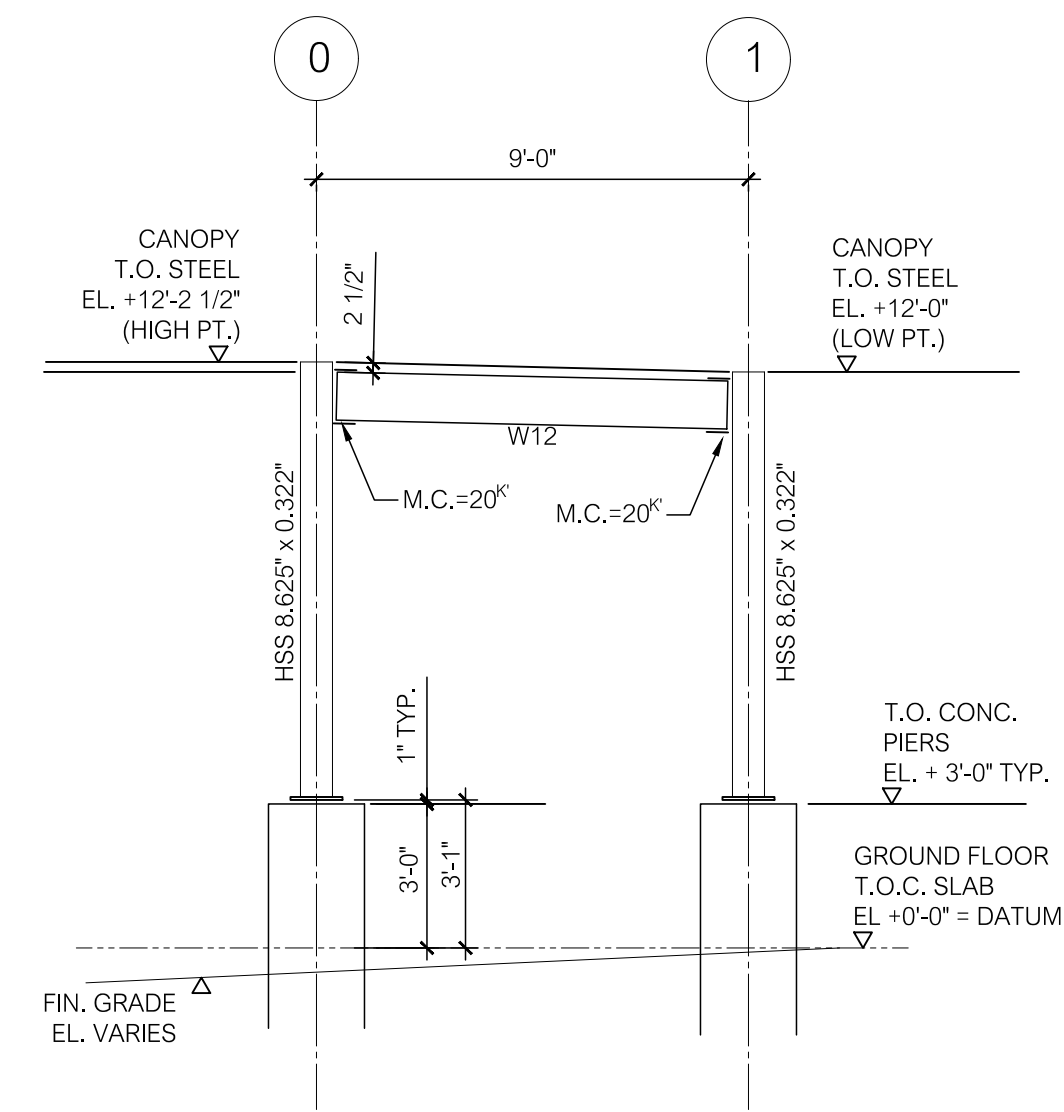
MOMENT FRAME ELEVATIONS

PROJ. NUMBER:	2020115
REV.	DATE
DRAWN BY:	RML
DESCRIPTION	

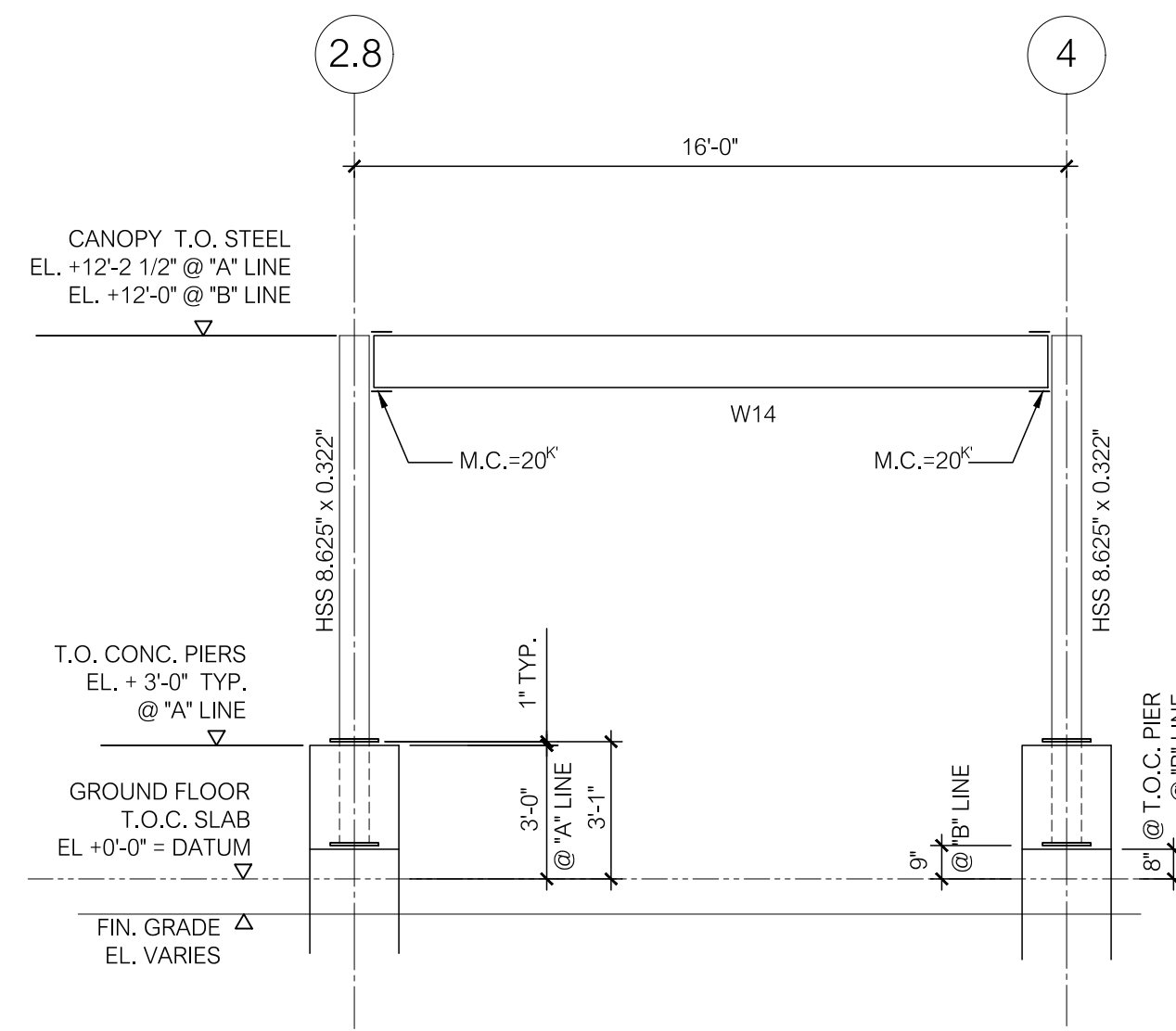
**CITY OF BANGOR
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DATE:
MAY 12, 2021

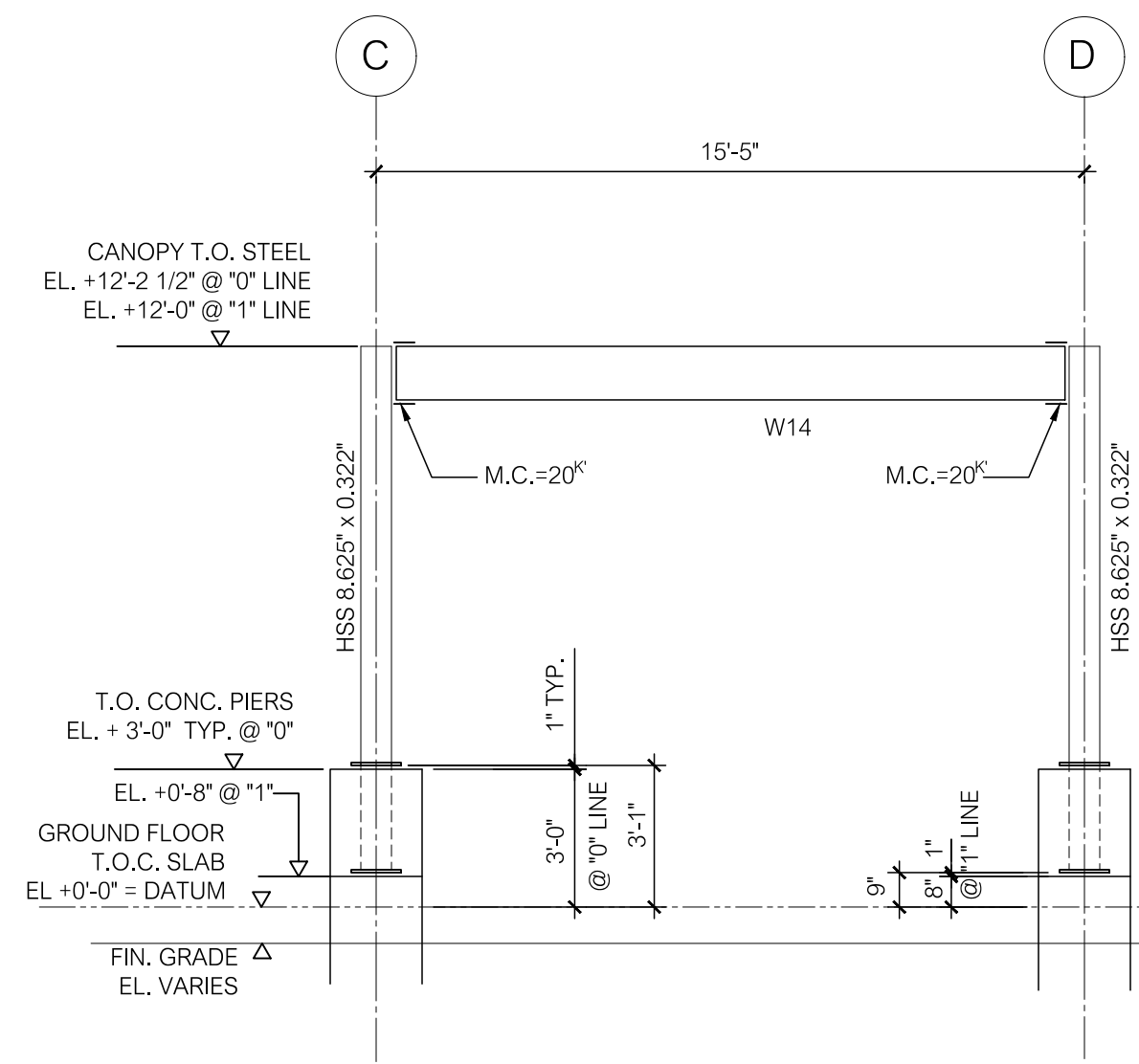
S201



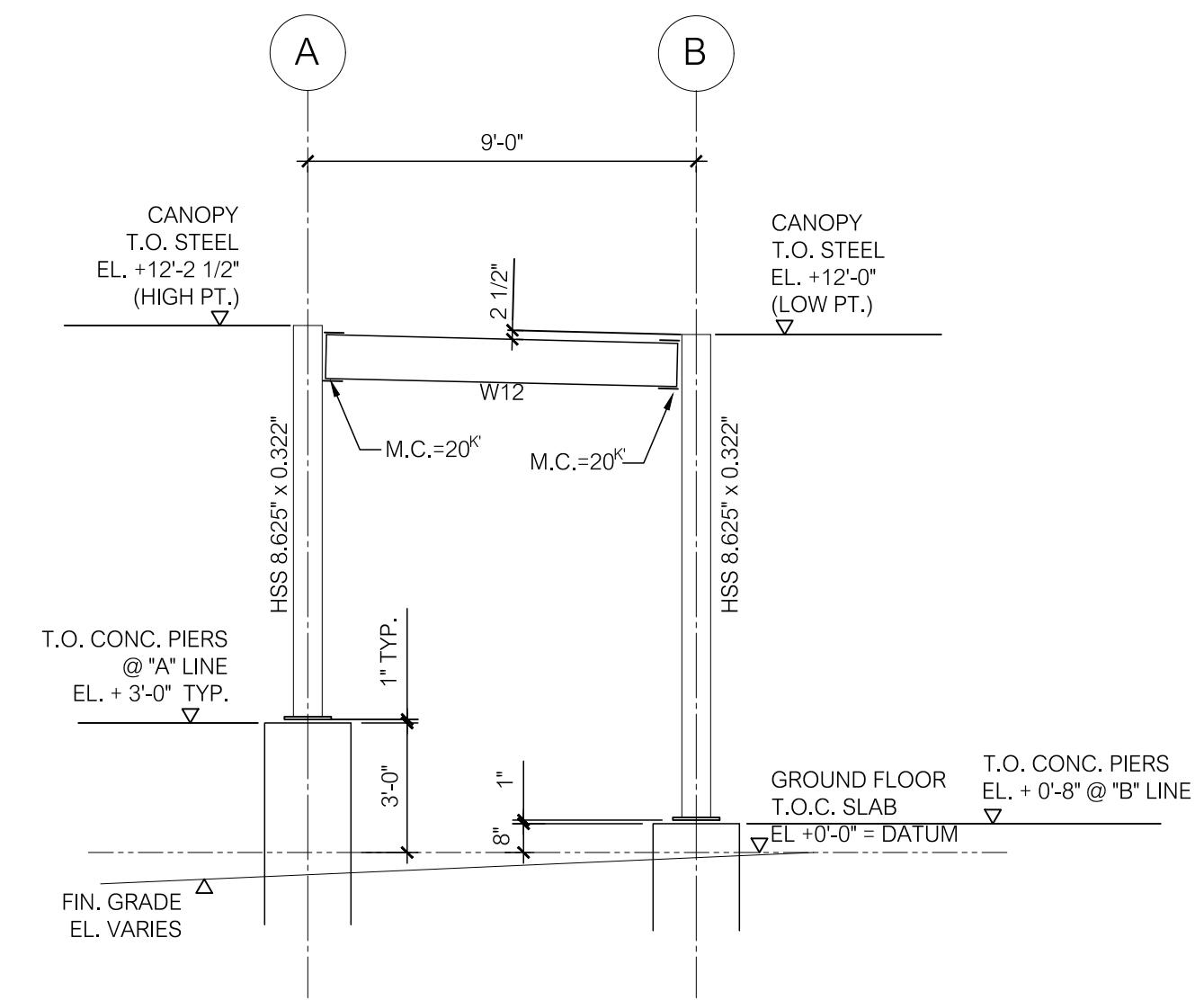
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NO SCALE S201



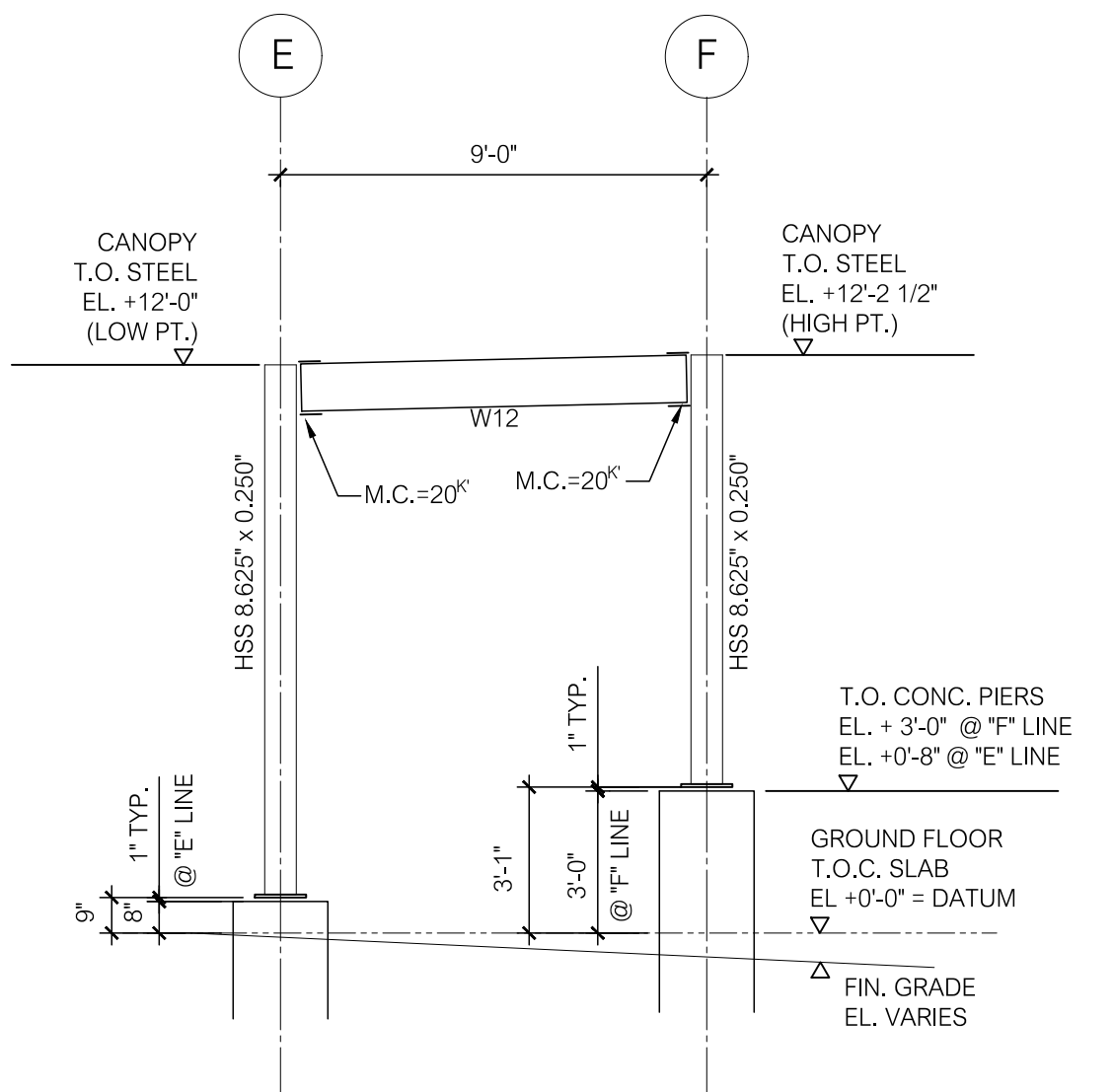
MOMENT FRAME @ "A" LINE; "B" LINE SIM. 2
NO SCALE S201



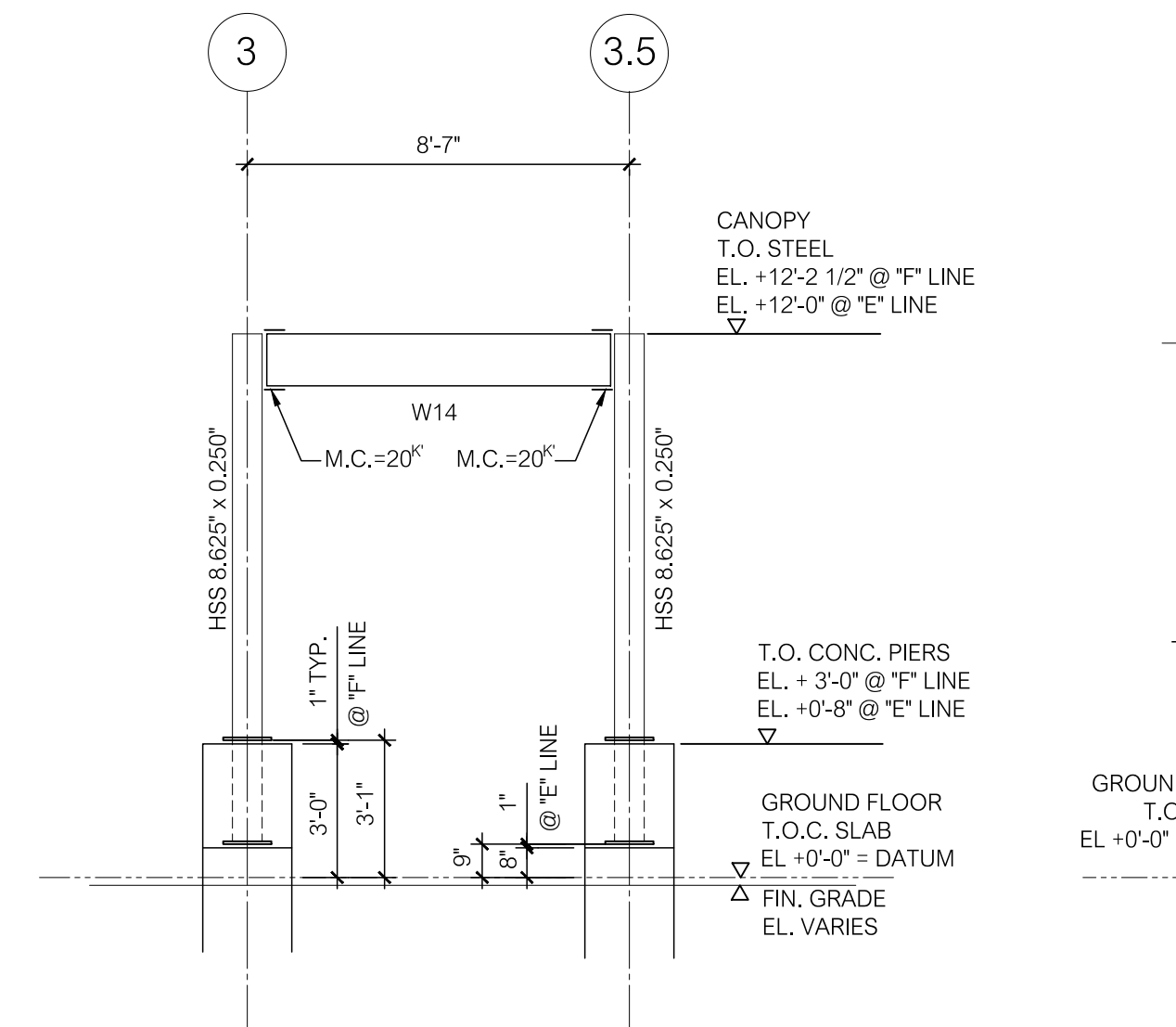
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NO SCALE S201



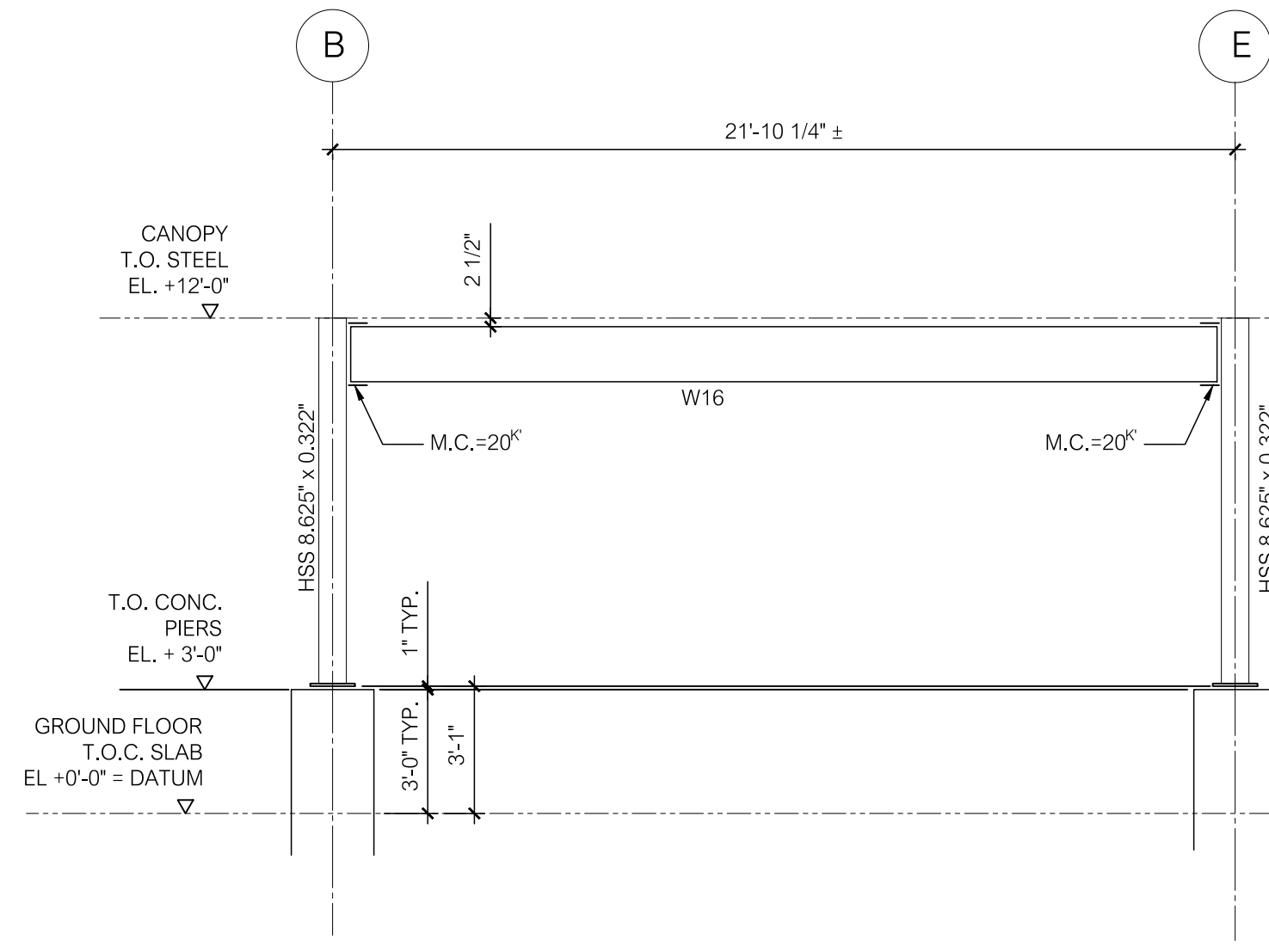
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NO SCALE S201



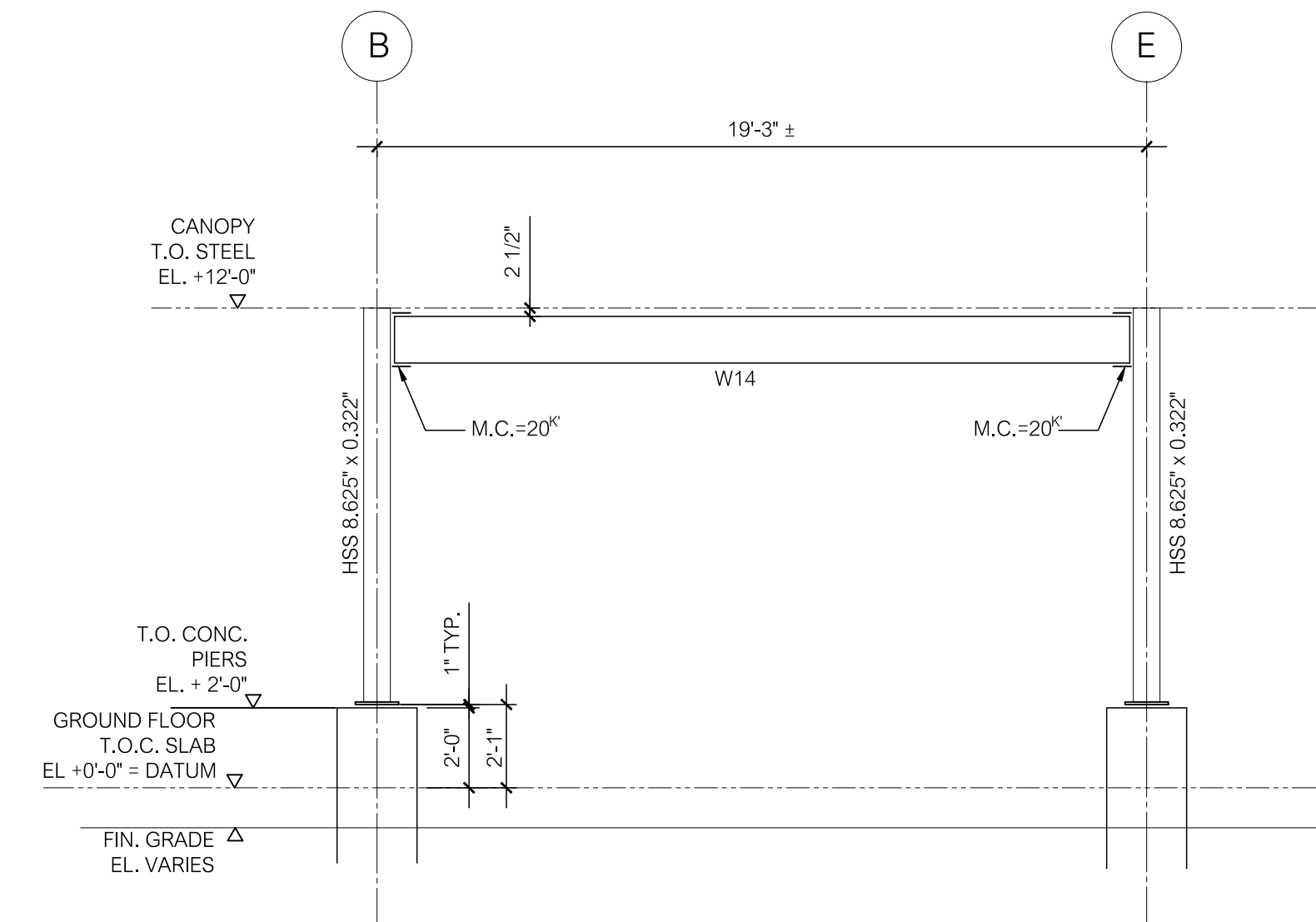
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NO SCALE S201



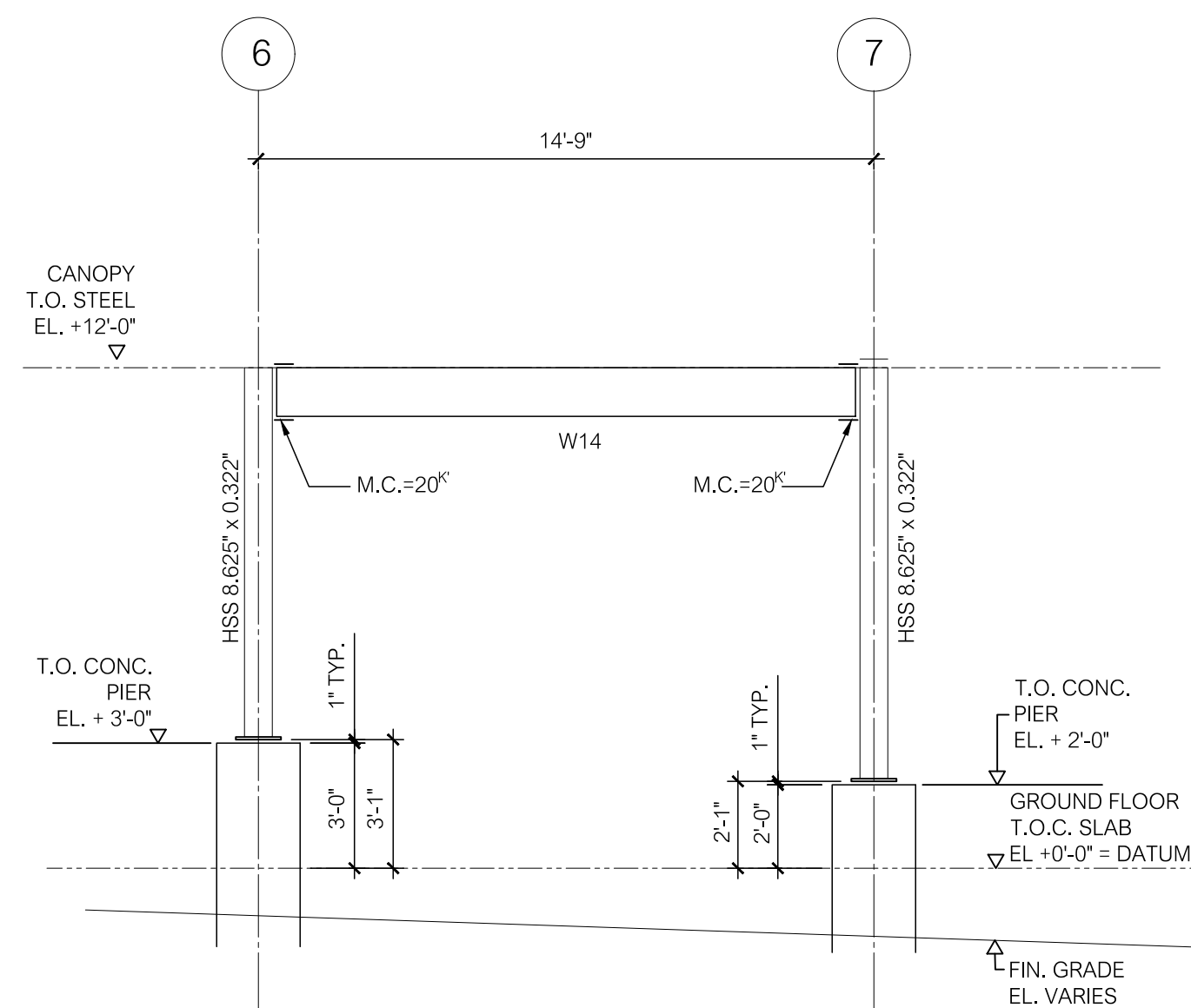
MOMENT FRAME @ "E" LINE; "F" LINE SIM. 6
NO SCALE S201



MOMENT FRAME @ "6" LINE 7
NO SCALE S201



MOMENT FRAME @ "7" LINE 8
NO SCALE S201



MOMENT FRAME @ "B" LINE; "E" LINE SIM. 9
NO SCALE S201

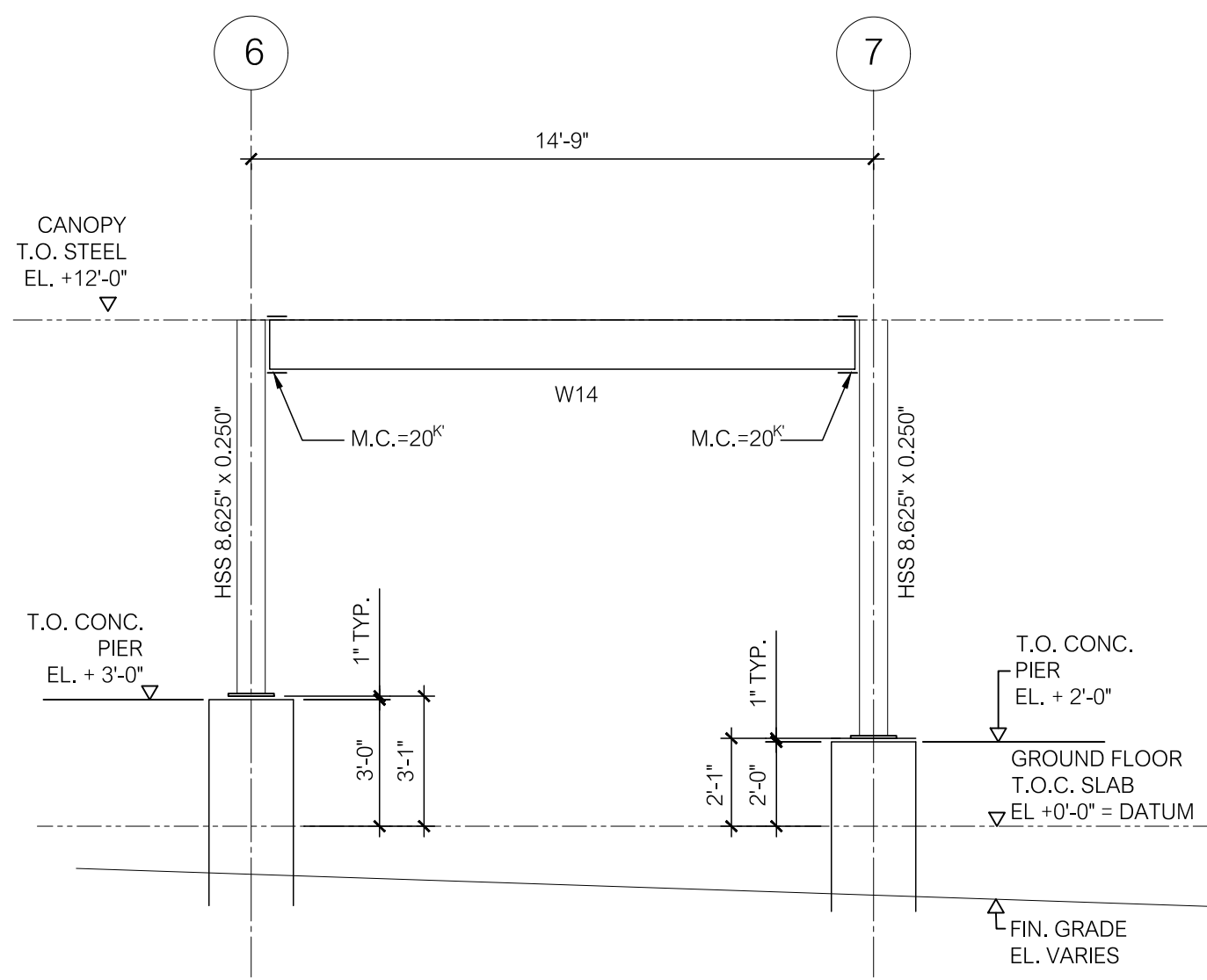
ALTERNATE - MOMENT FRAME ELEVATIONS

PROJ. NUMBER:	2020115
REV.	DATE
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DESCRIPTION	

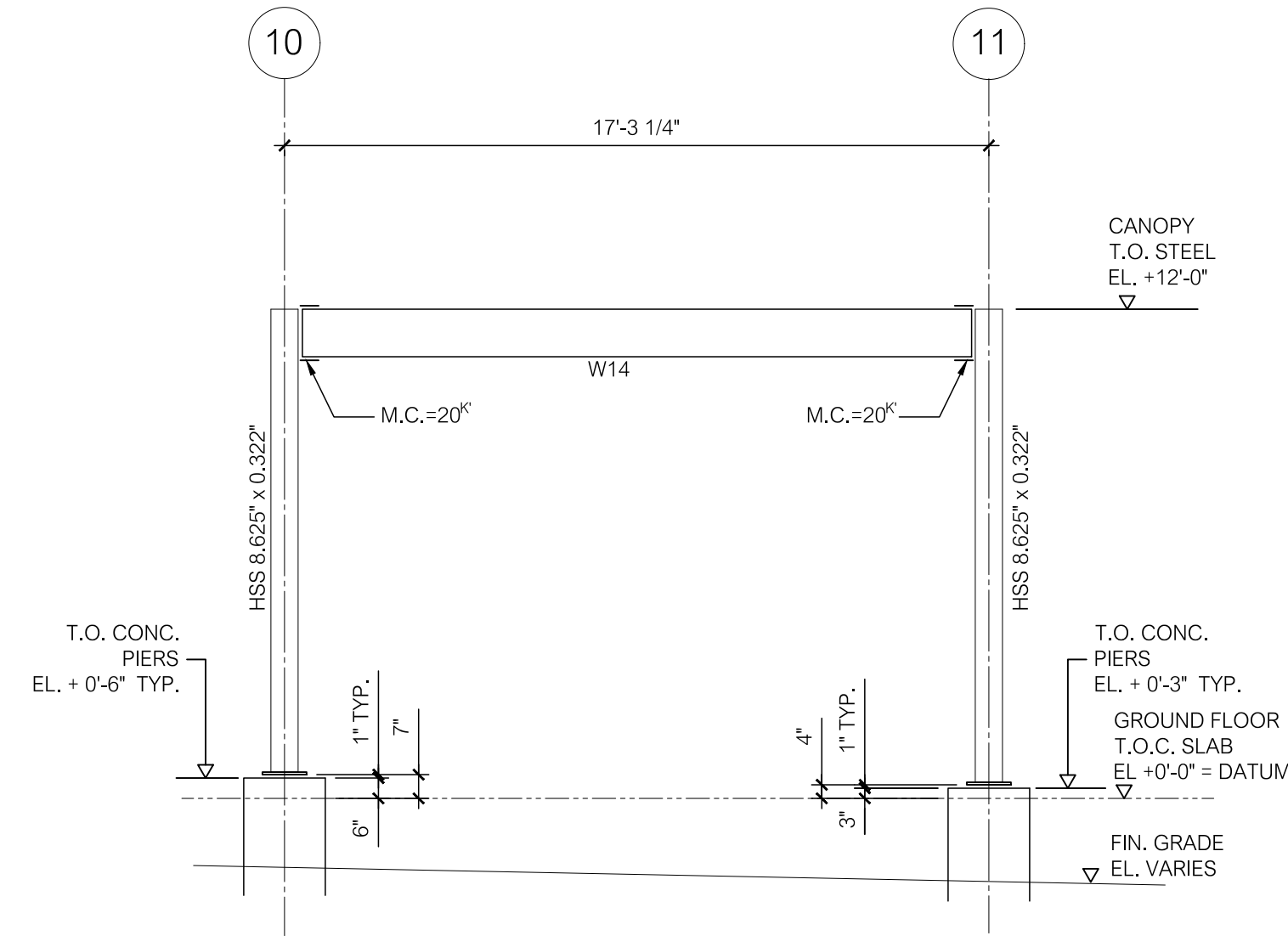
CITY OF BANGOR
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DATE:
MAY 12, 2021

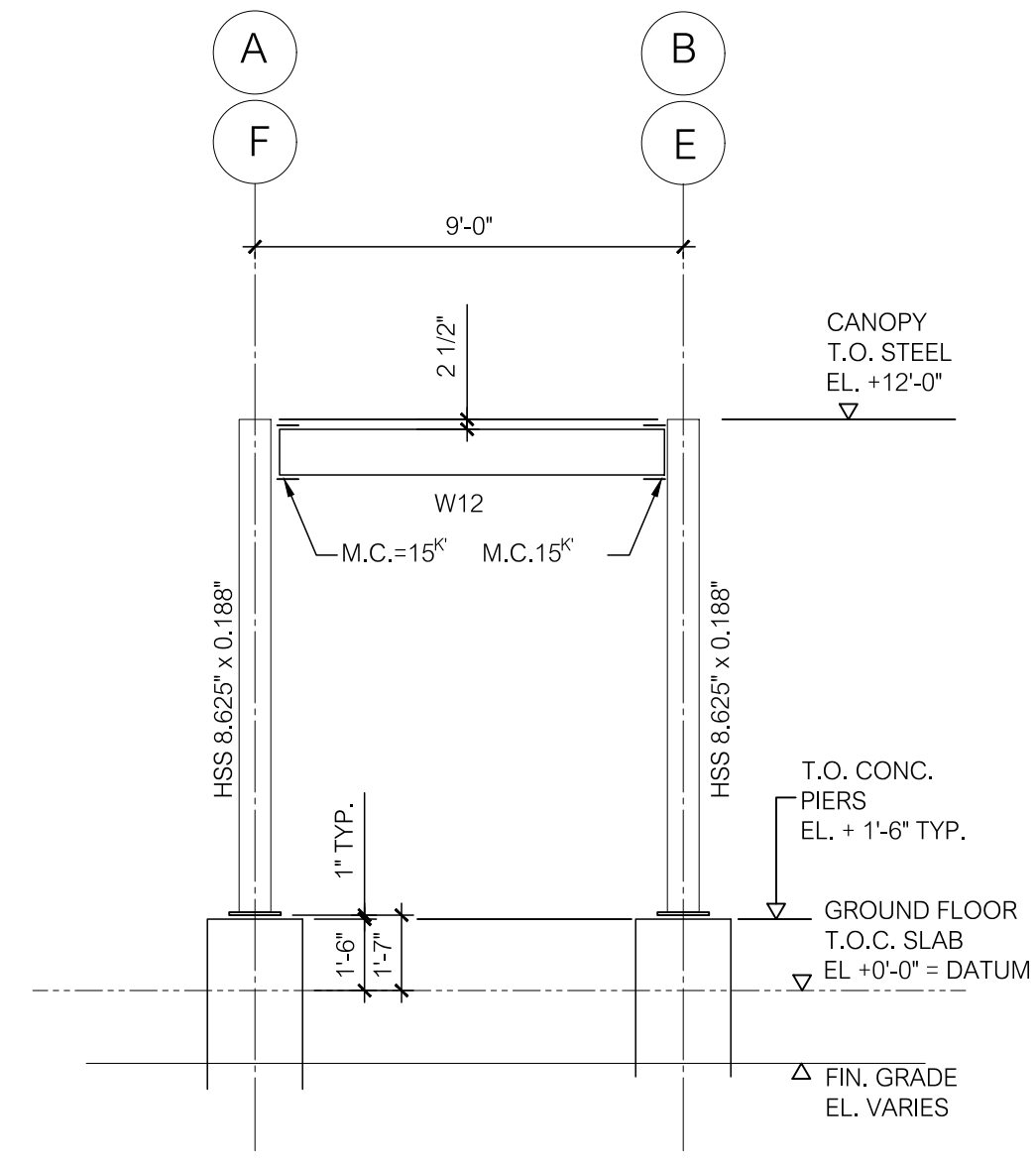
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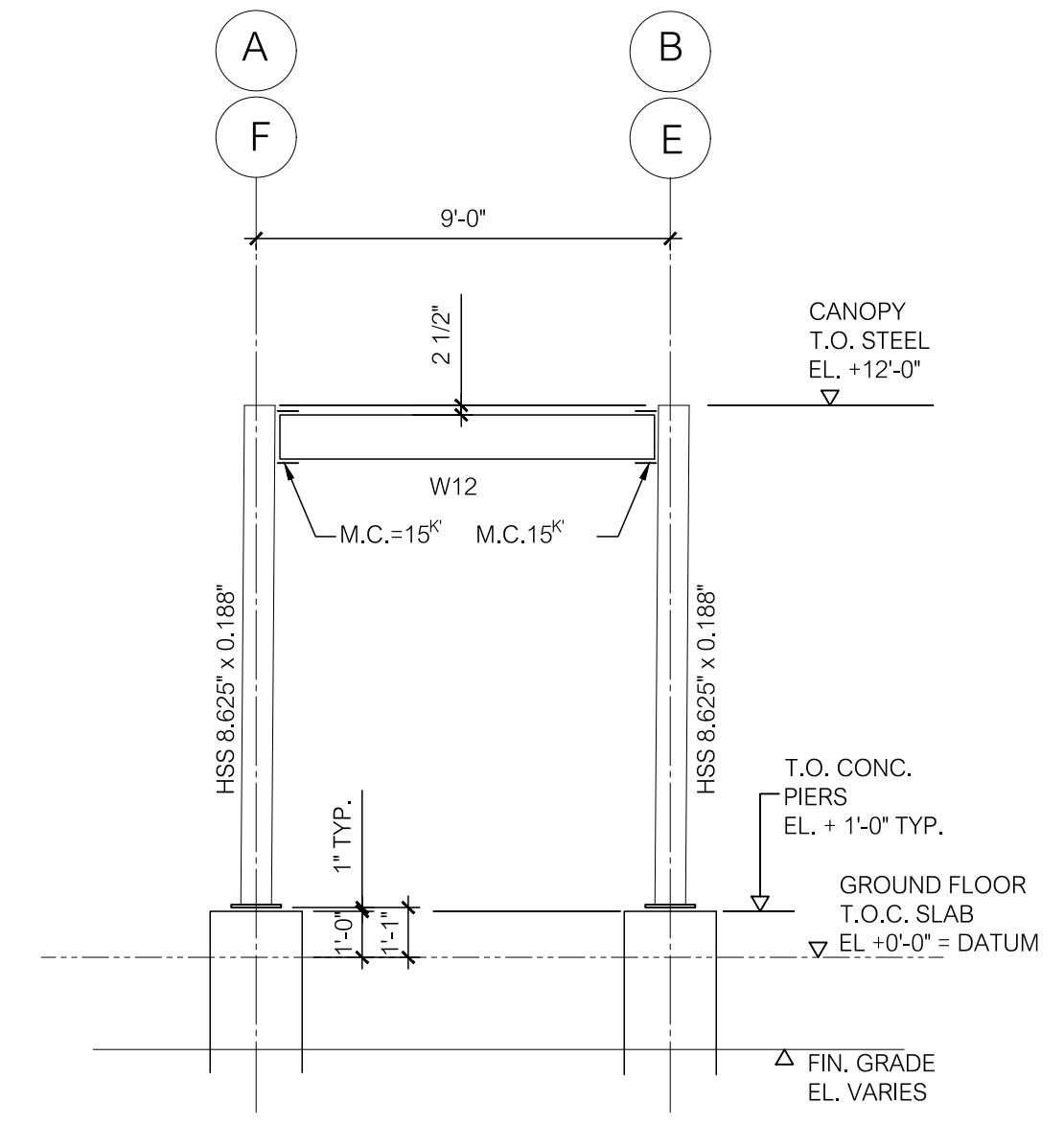
MOMENT FRAME @ "A" LINE; "F" LINE SIM. ALT. B
NO SCALE



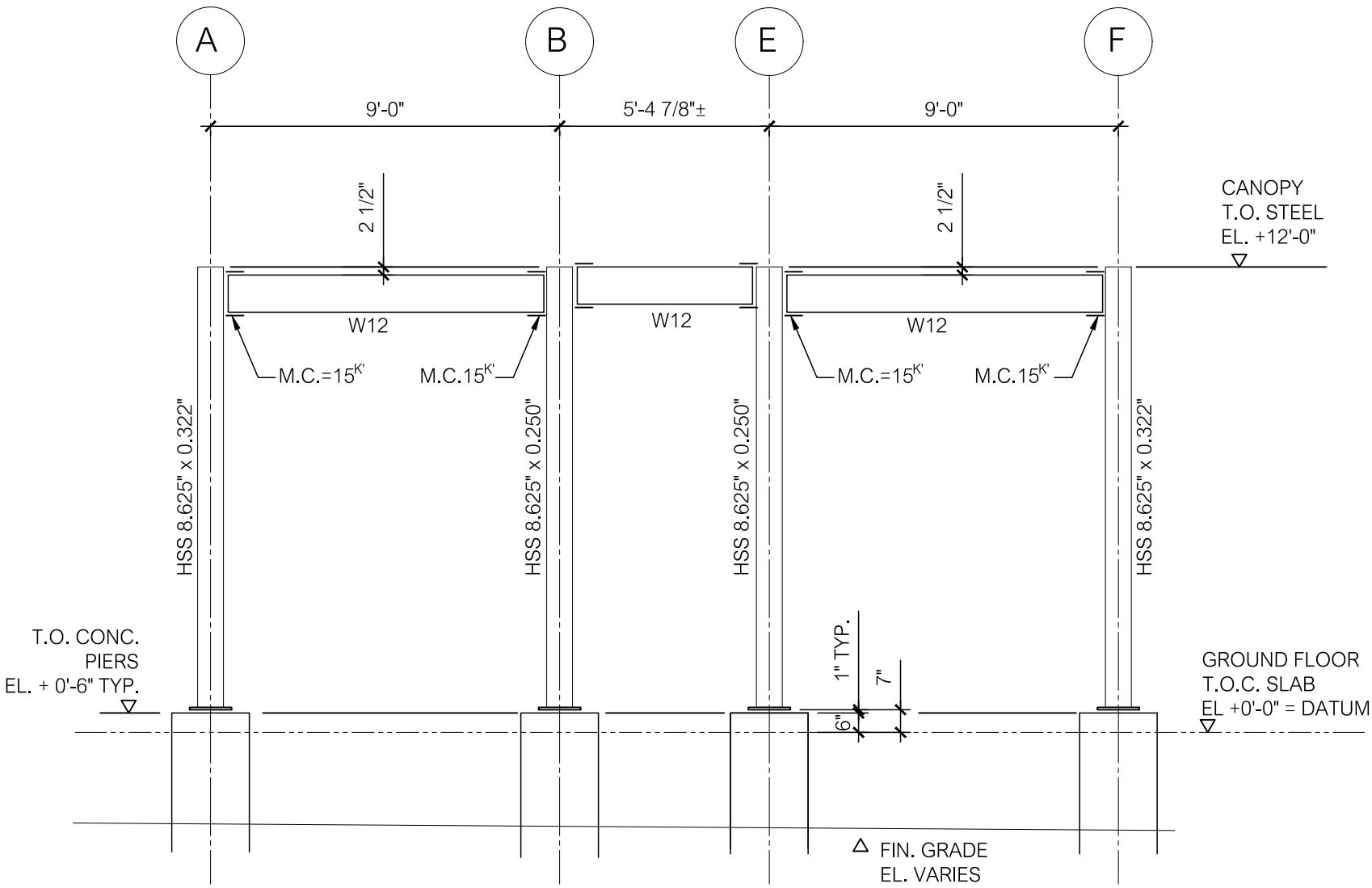
MOMENT FRAME @ "A" LINE; "F" LINE SIM. ALT. B
NO SCALE



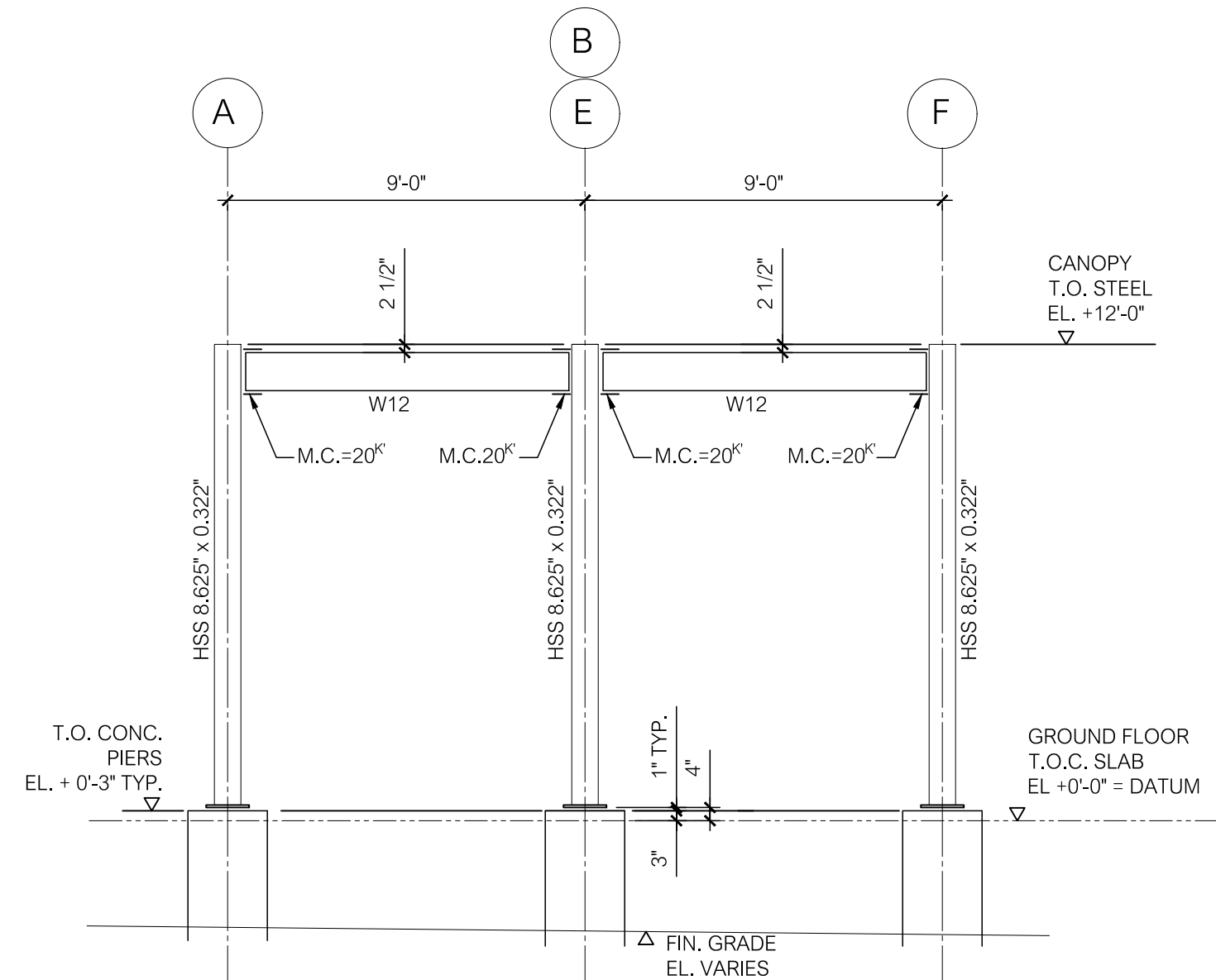
MOMENT FRAMES @ "8" LINE ALT. B
NO SCALE



MOMENT FRAMES @ "9" LINE ALT. B
NO SCALE



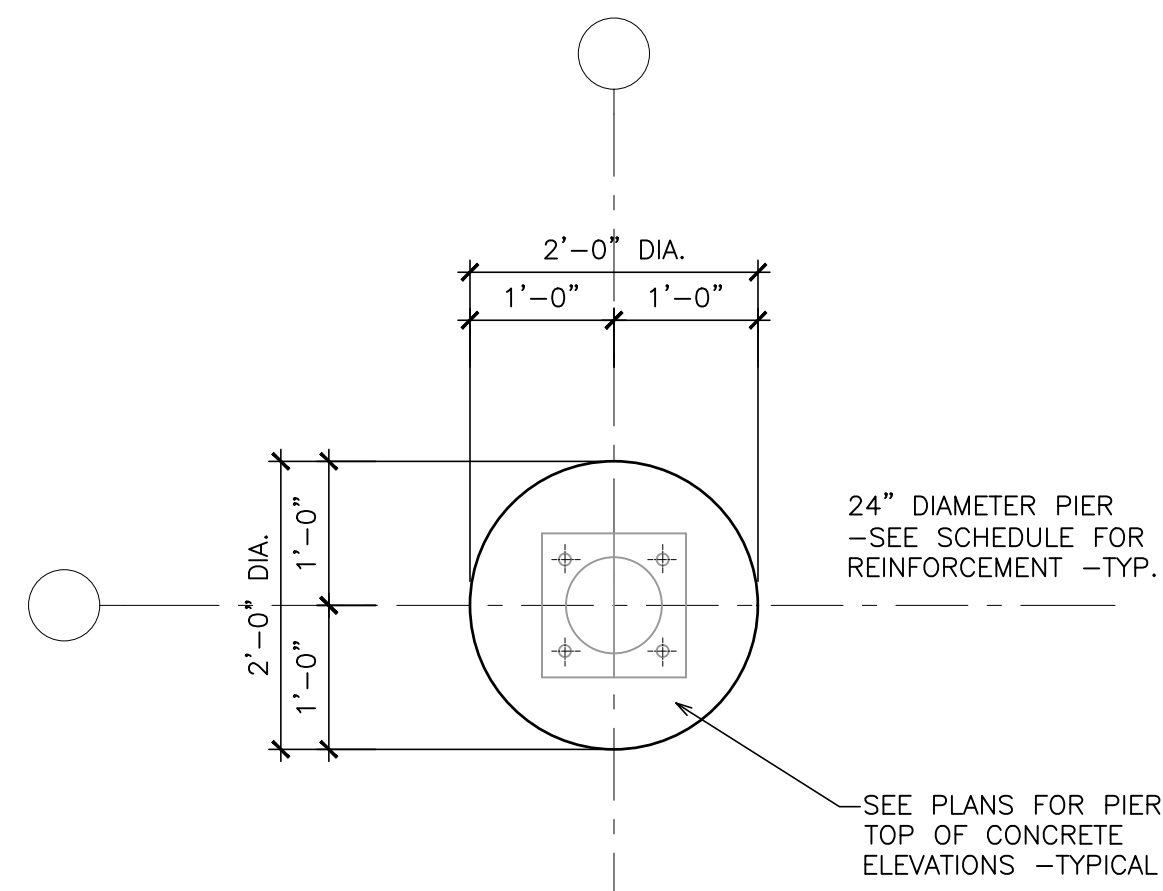
MOMENT FRAMES @ "10" LINE, ALT. B
NO SCALE



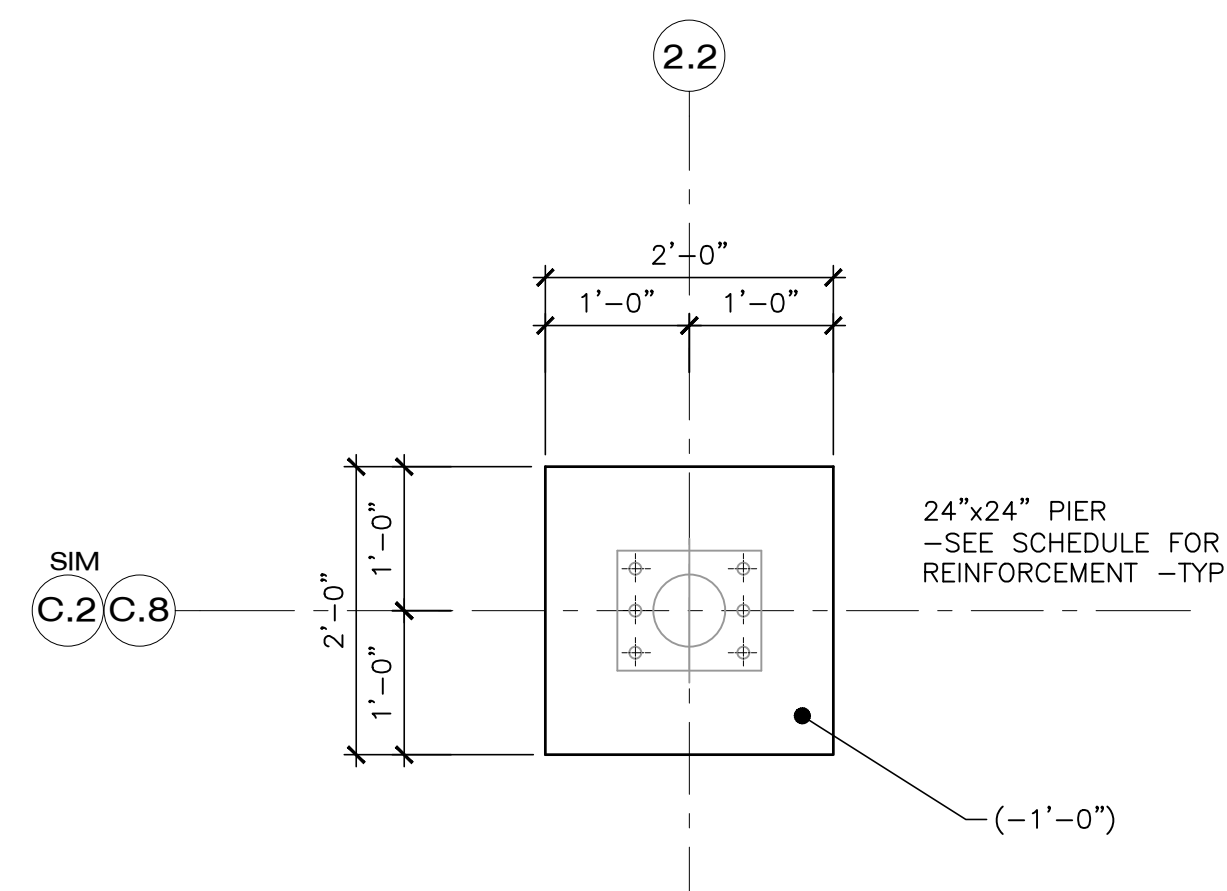
MOMENT FRAMES @ "11" LINE ALT. B
NO SCALE

CONCRETE PIER & PILASTER REINFORCING		
SIZE	VERTICAL REINF.	TIES
16"x16"	8- #6 VERT.	#3x @ 12" O.C.
18"x18"	8- #6 VERT.	#3x @ 12" O.C.
18"x20"	8- #6 VERT.	#3x @ 12" O.C.
20"x20"	8- #7 VERT.	#3x @ 12" O.C.
24"x24"	8- #8 VERT.	#3x @ 12" O.C.
24"x26"	8- #8 VERT.	#3x @ 12" O.C.
24"x28"	8- #8 VERT.	#3x @ 12" O.C.
24" DIAMETER	8- #7 VERT.	#3x @ 12" O.C.

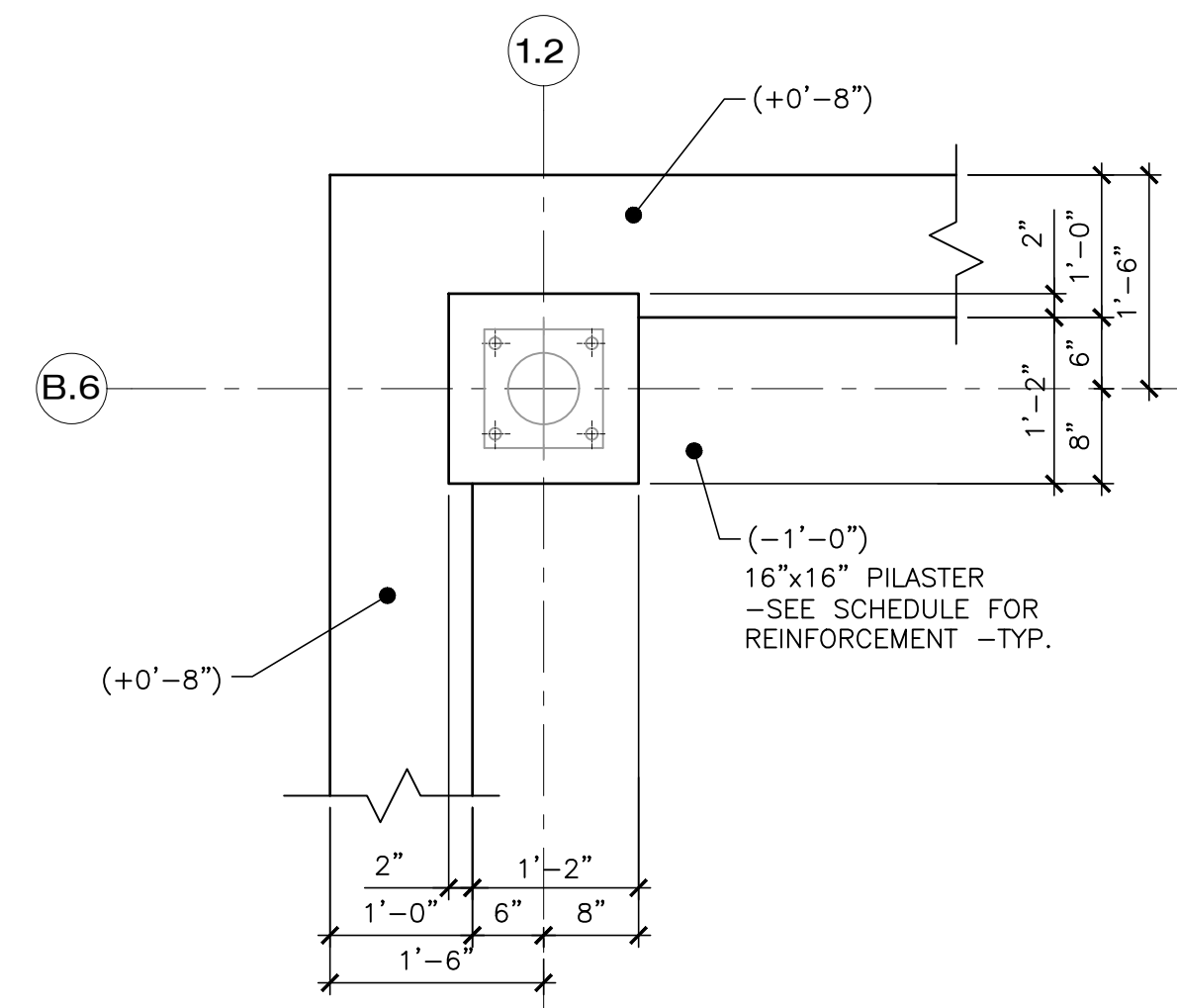
SEE PLANS, GENERAL NOTES & TYPICAL DETAILS FOR ADDITIONAL INFO.



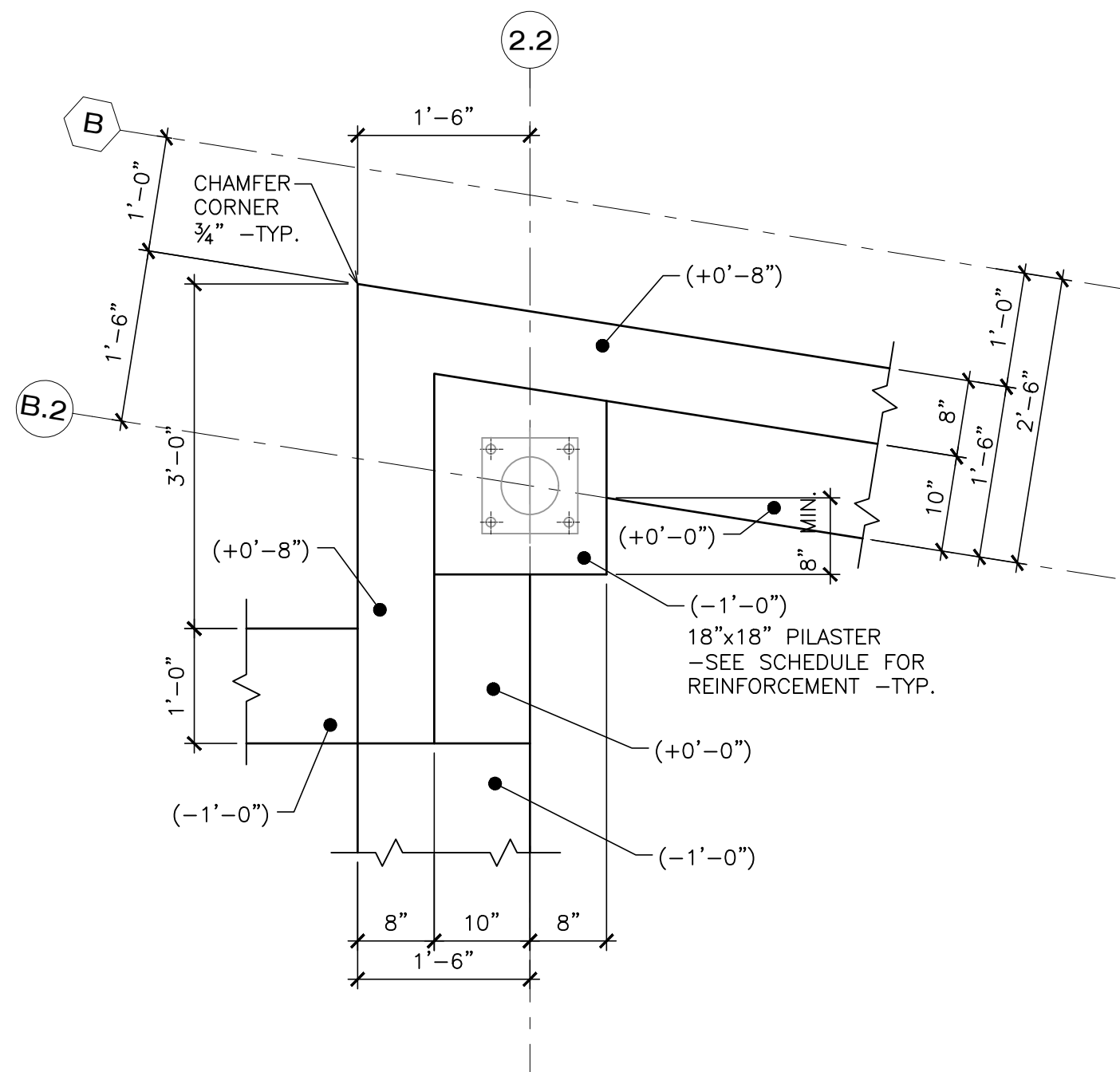
TYPICAL CONC. PIER "P1" 1
3/4" = 1'-0" S300



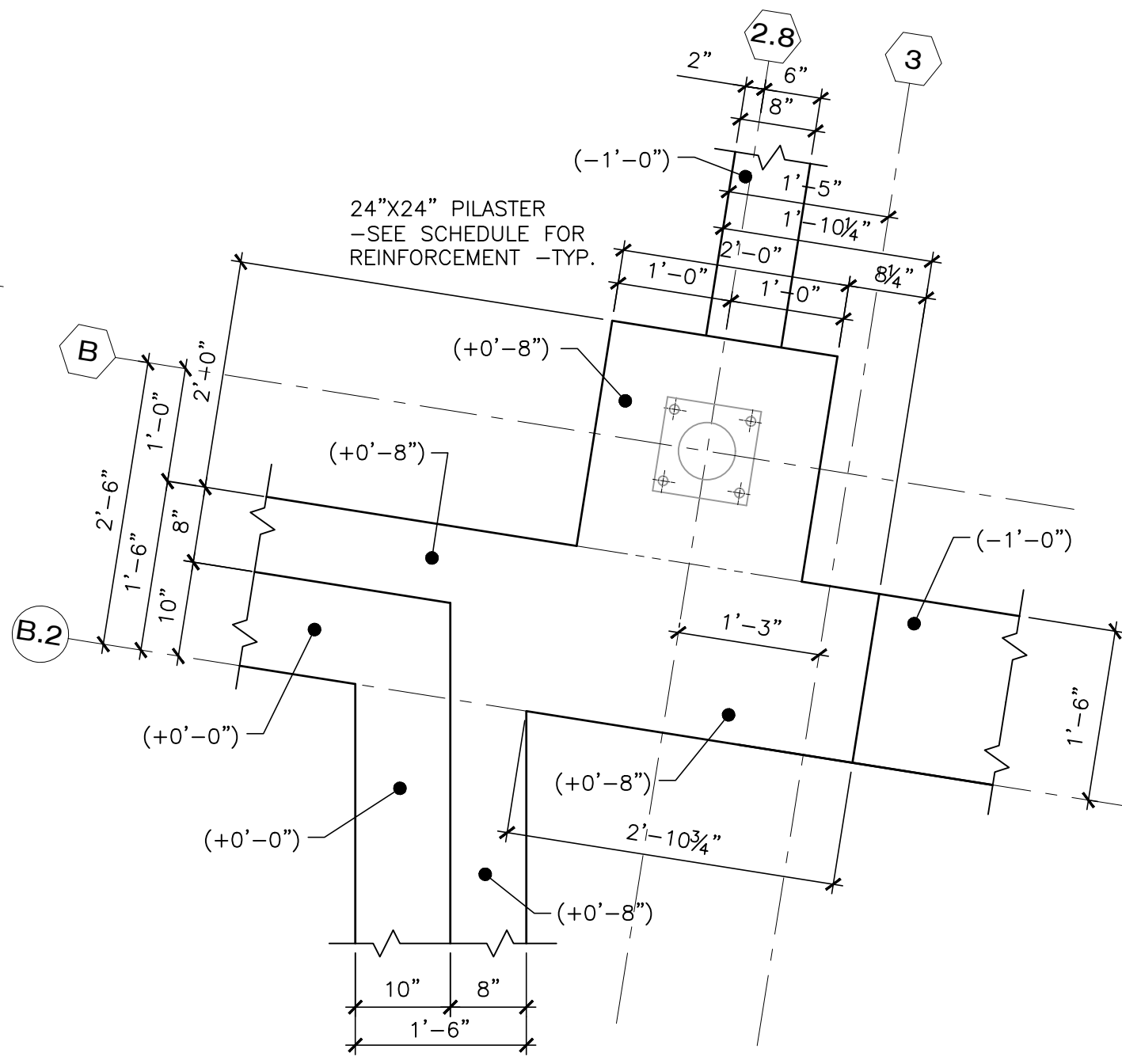
TYPICAL CONC. PIER "P2" 2
3/4" = 1'-0" S300



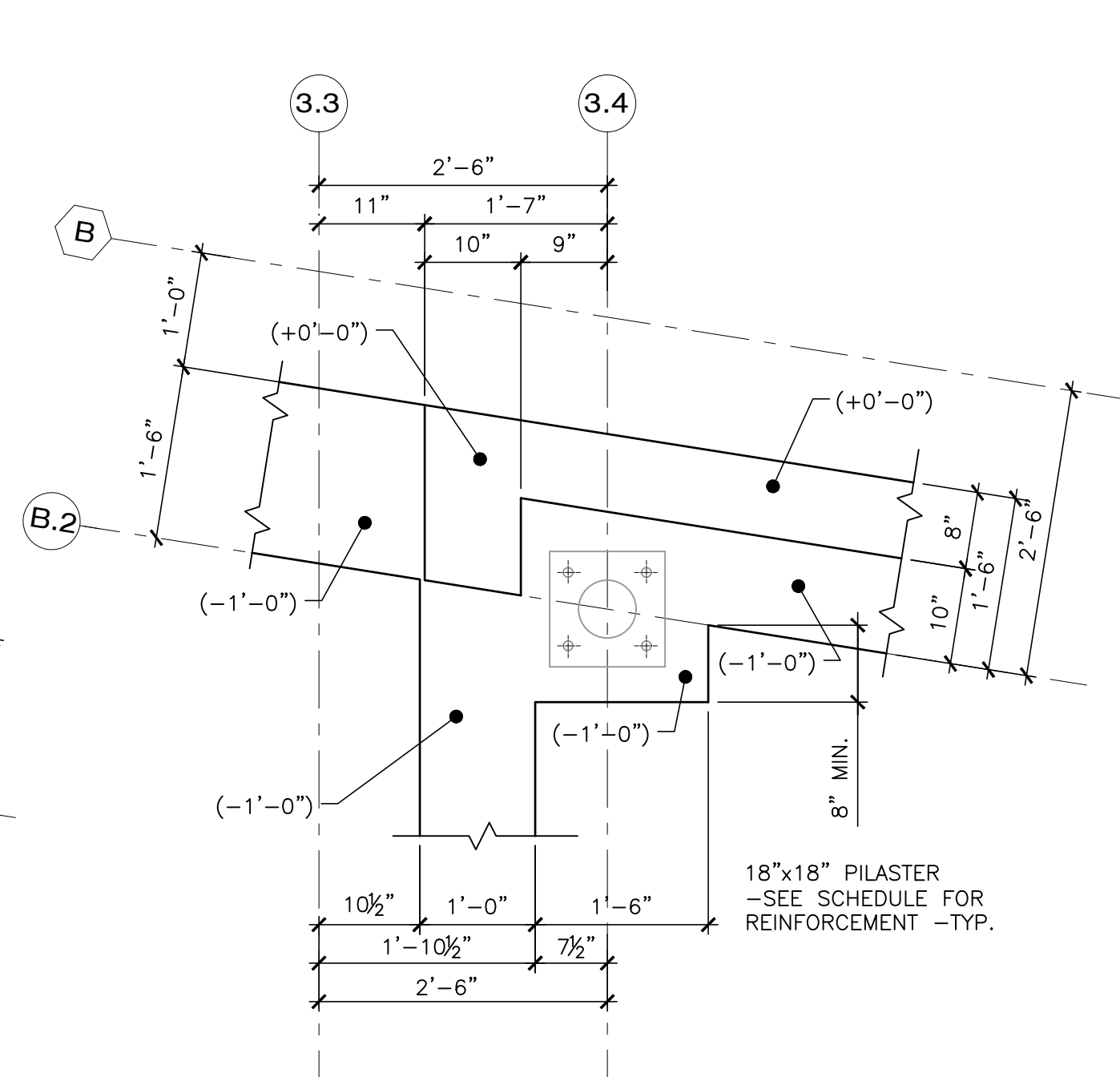
FOUNDATION PLAN "P3" 3
3/4" = 1'-0" S300



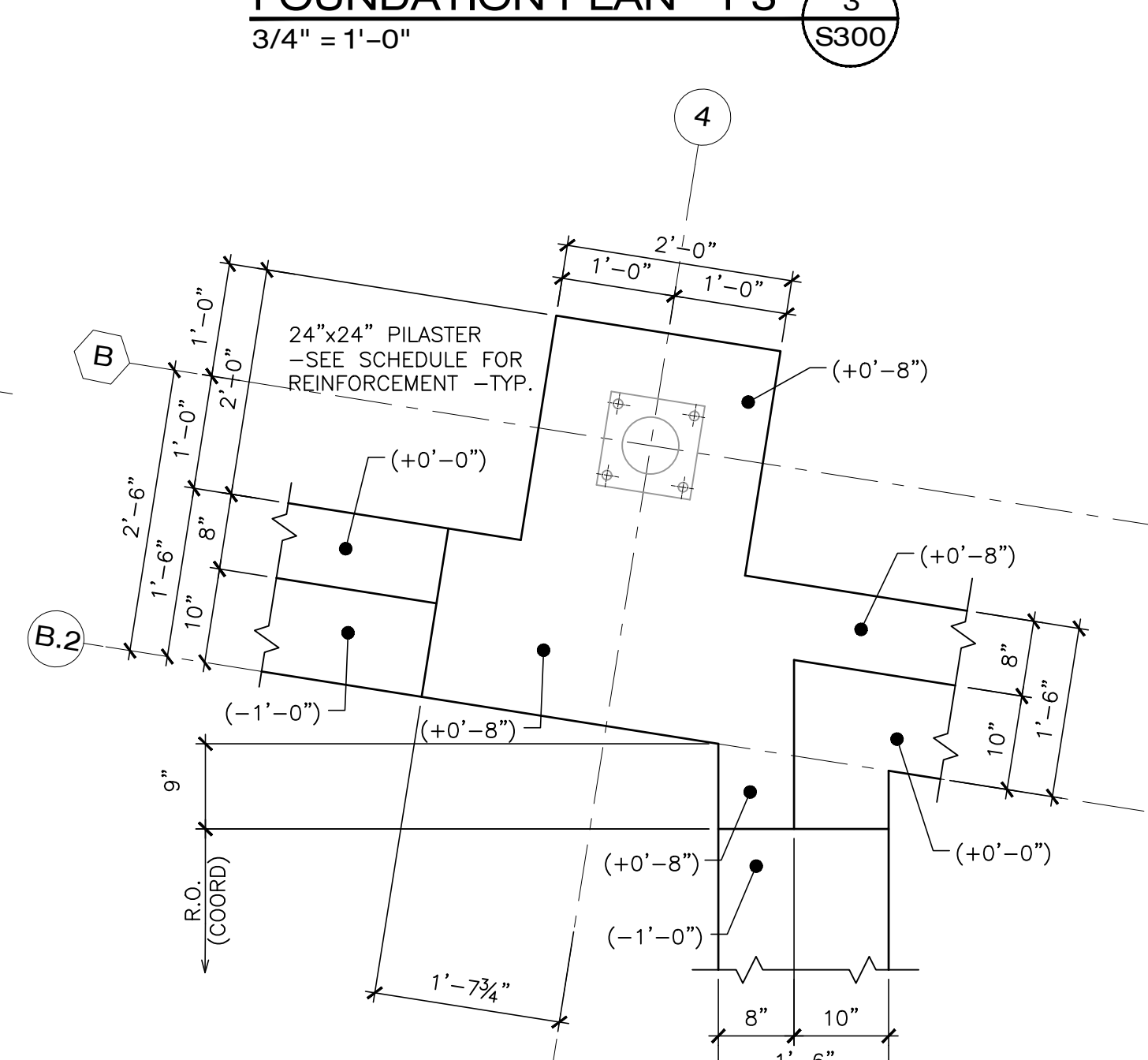
FOUNDATION PLAN "P4" 4
3/4" = 1'-0" S300



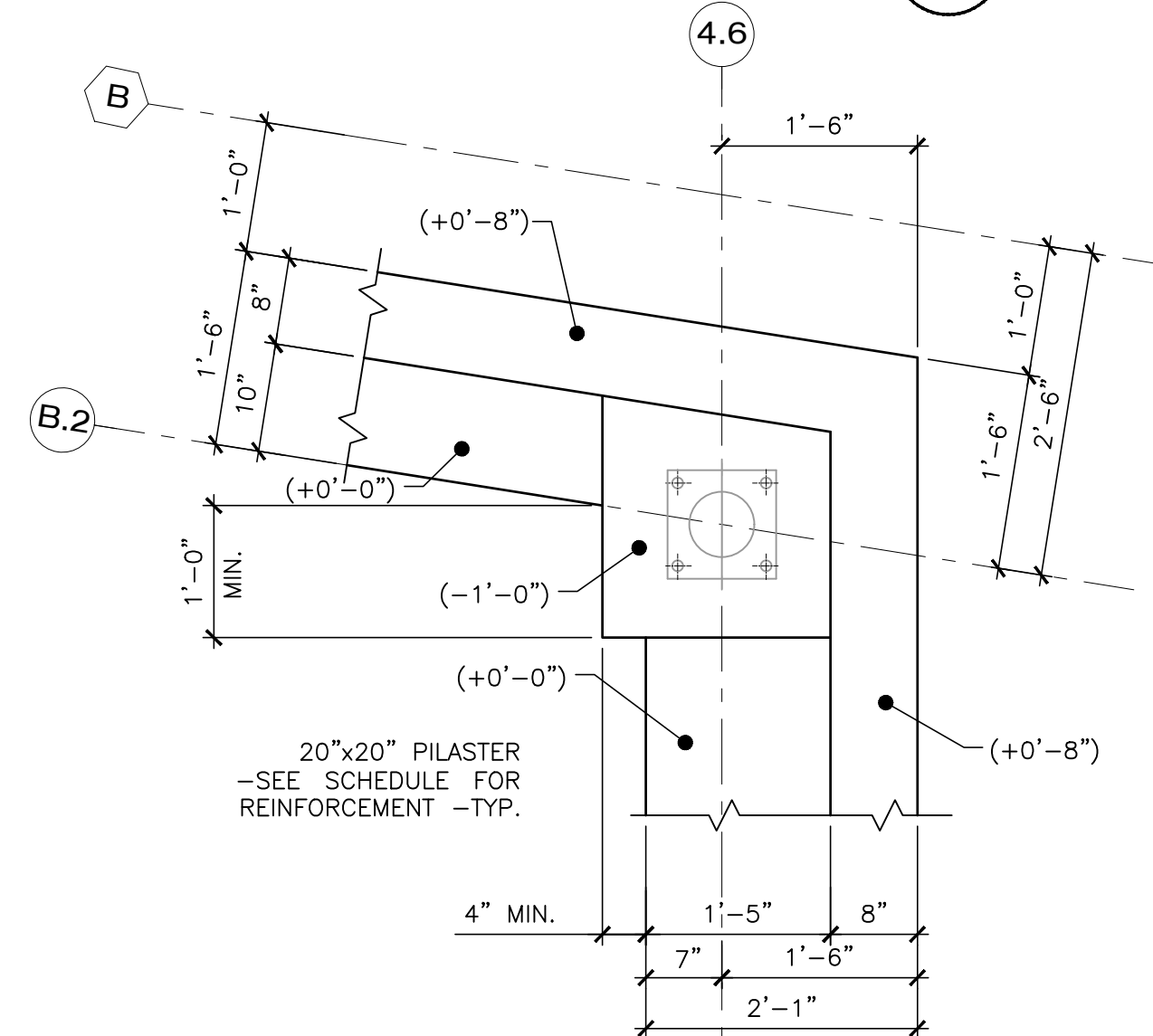
FOUNDATION PLAN "P5" 5
3/4" = 1'-0" S300



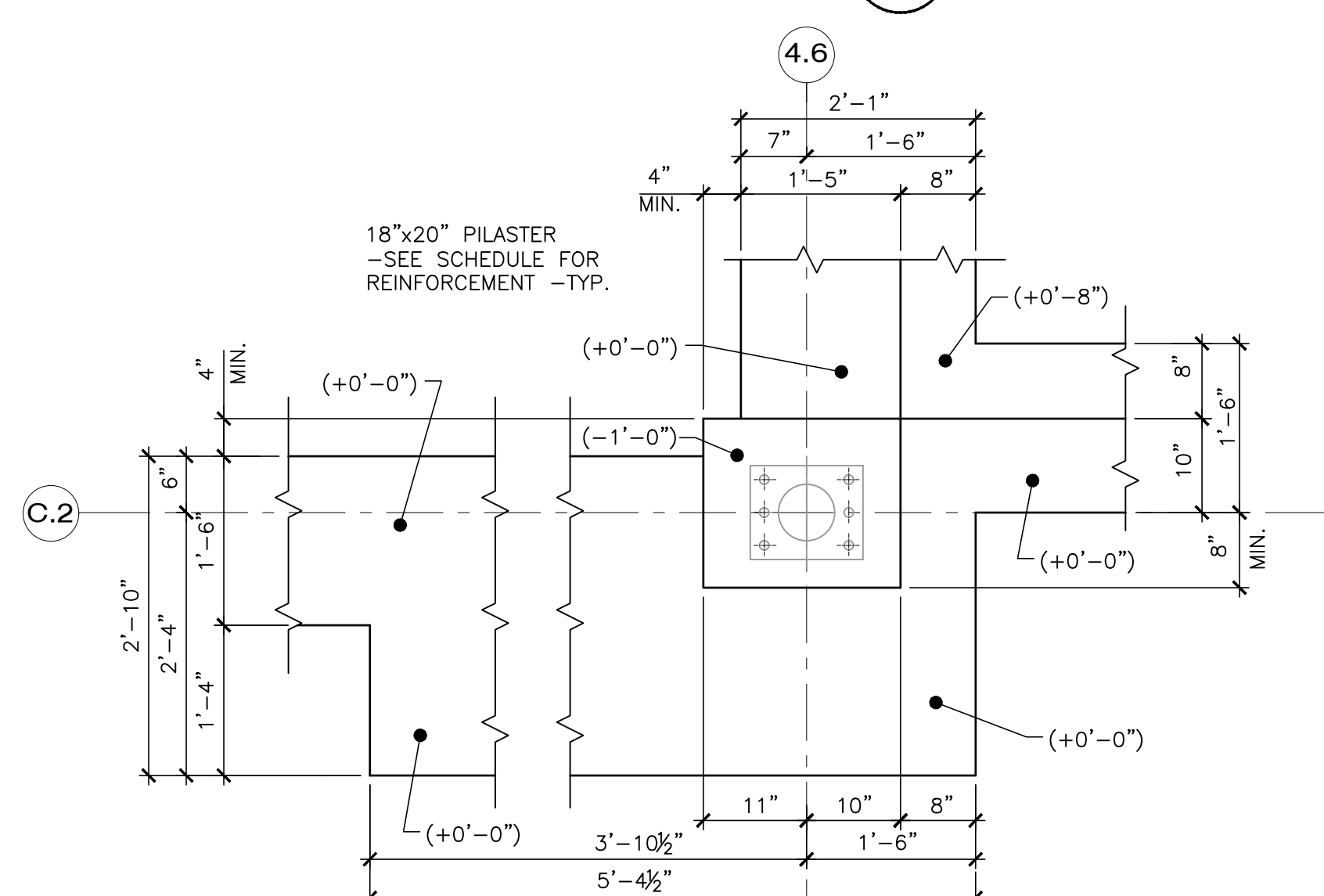
FOUNDATION PLAN "P6" 6
3/4" = 1'-0" S300



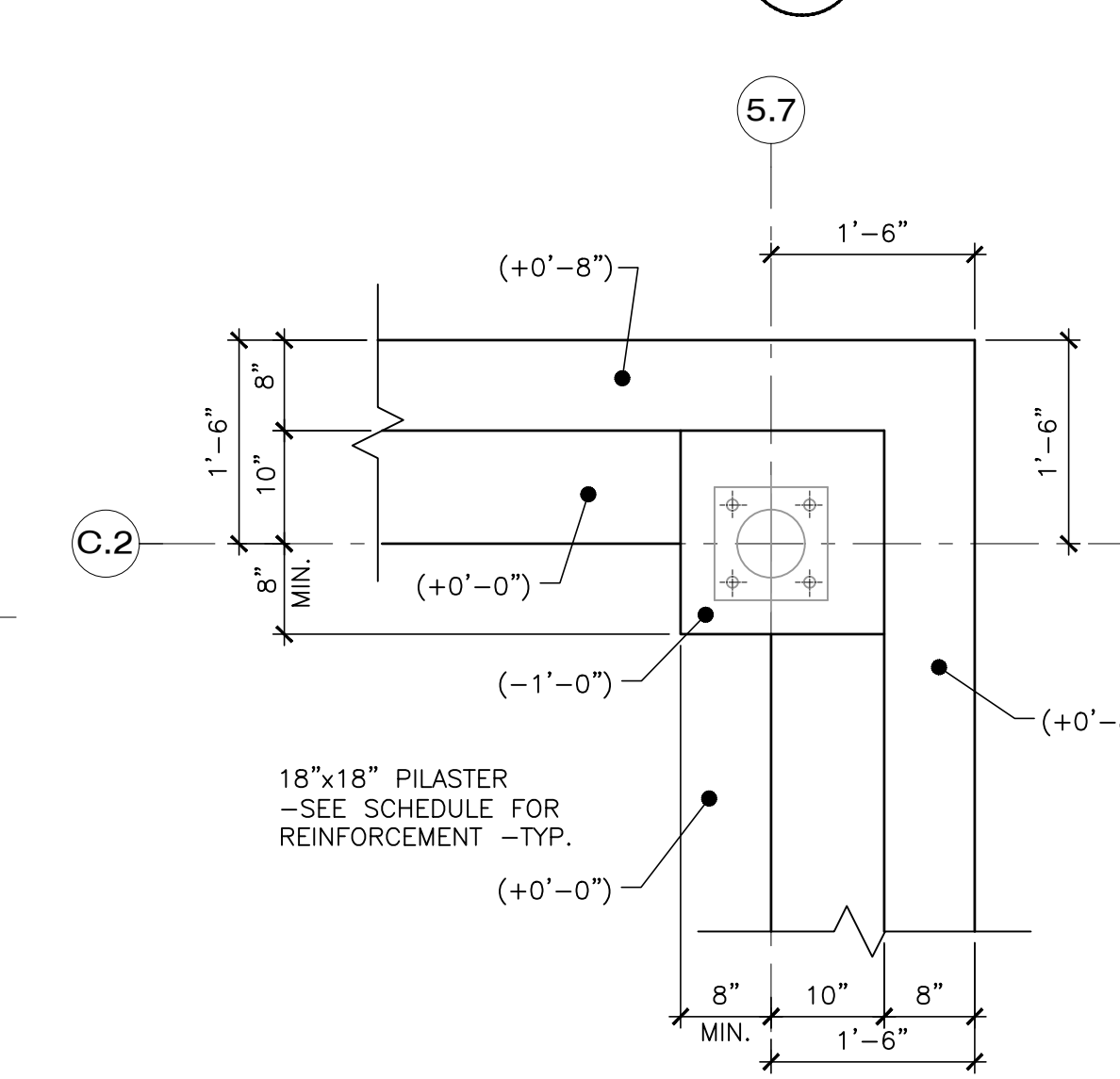
FOUNDATION PLAN "P7" 7
3/4" = 1'-0" S300



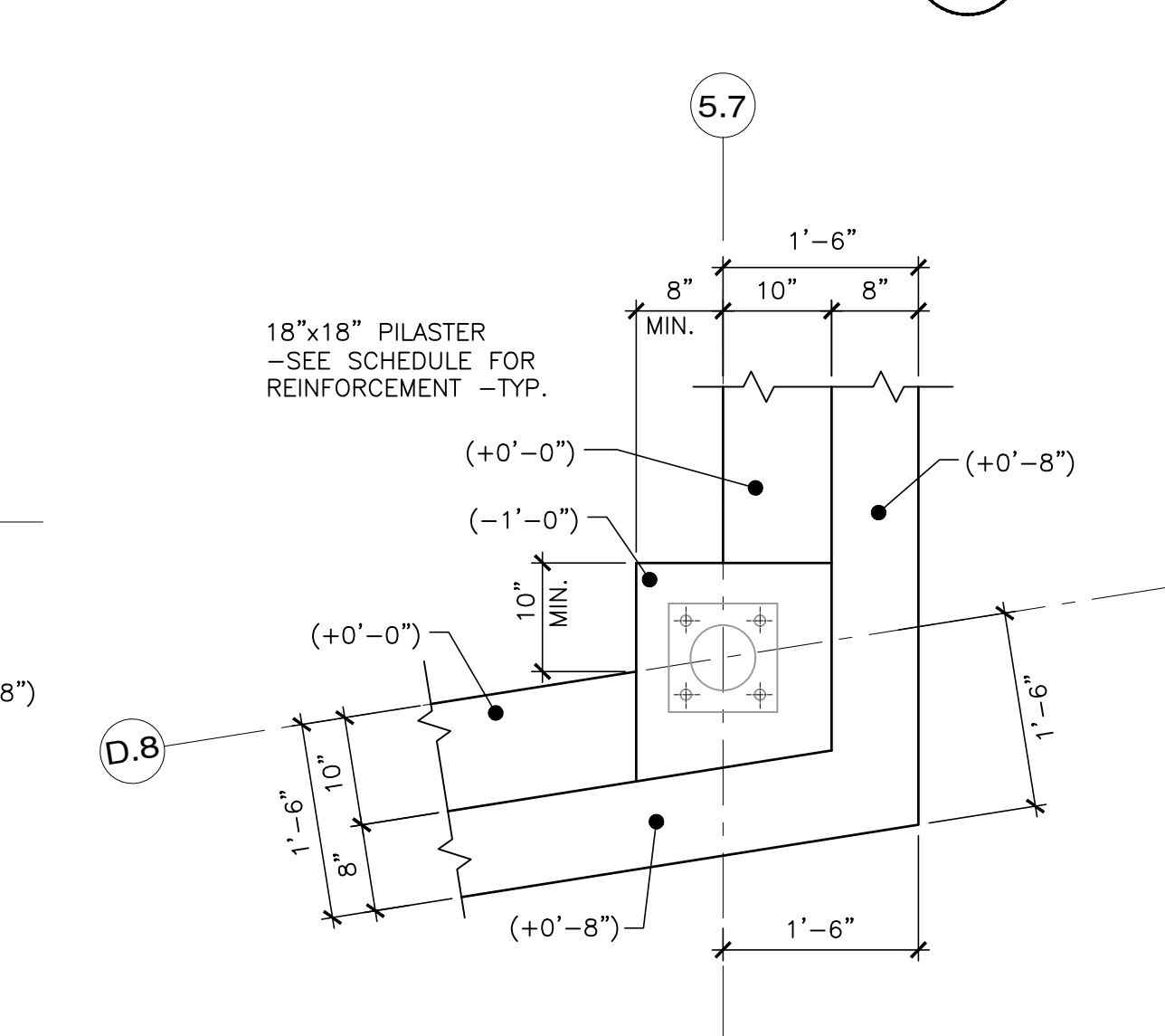
FOUNDATION PLAN "P8" 8
3/4" = 1'-0" S300



FOUNDATION PLAN "P9" 9
3/4" = 1'-0" S300



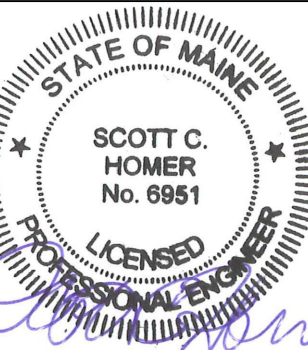
FOUNDATION PLAN "P10" 10
3/4" = 1'-0" S300



FOUNDATION PLAN "P11" 11
3/4" = 1'-0" S300



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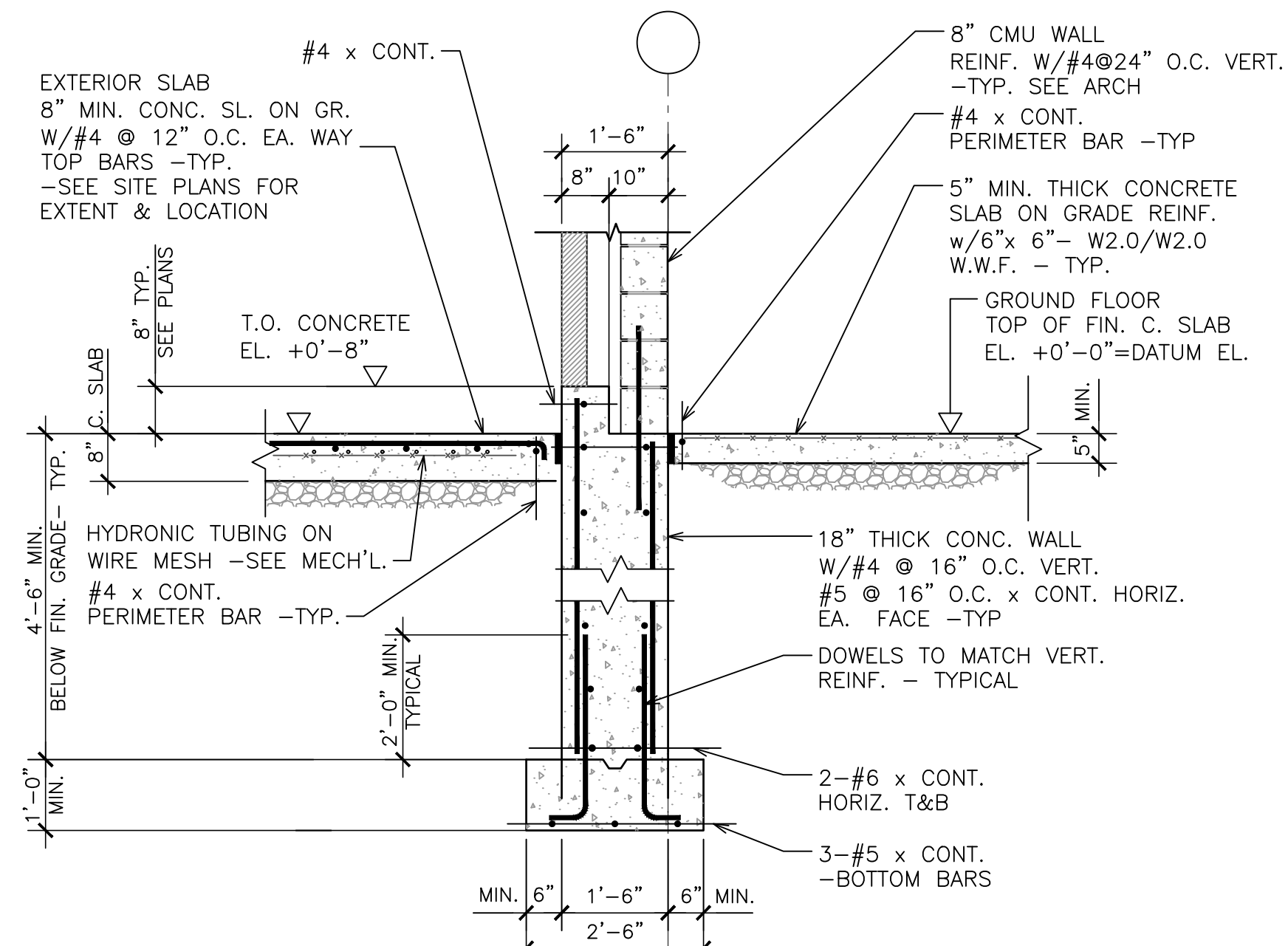
PIER PART PLANS & DETAILS

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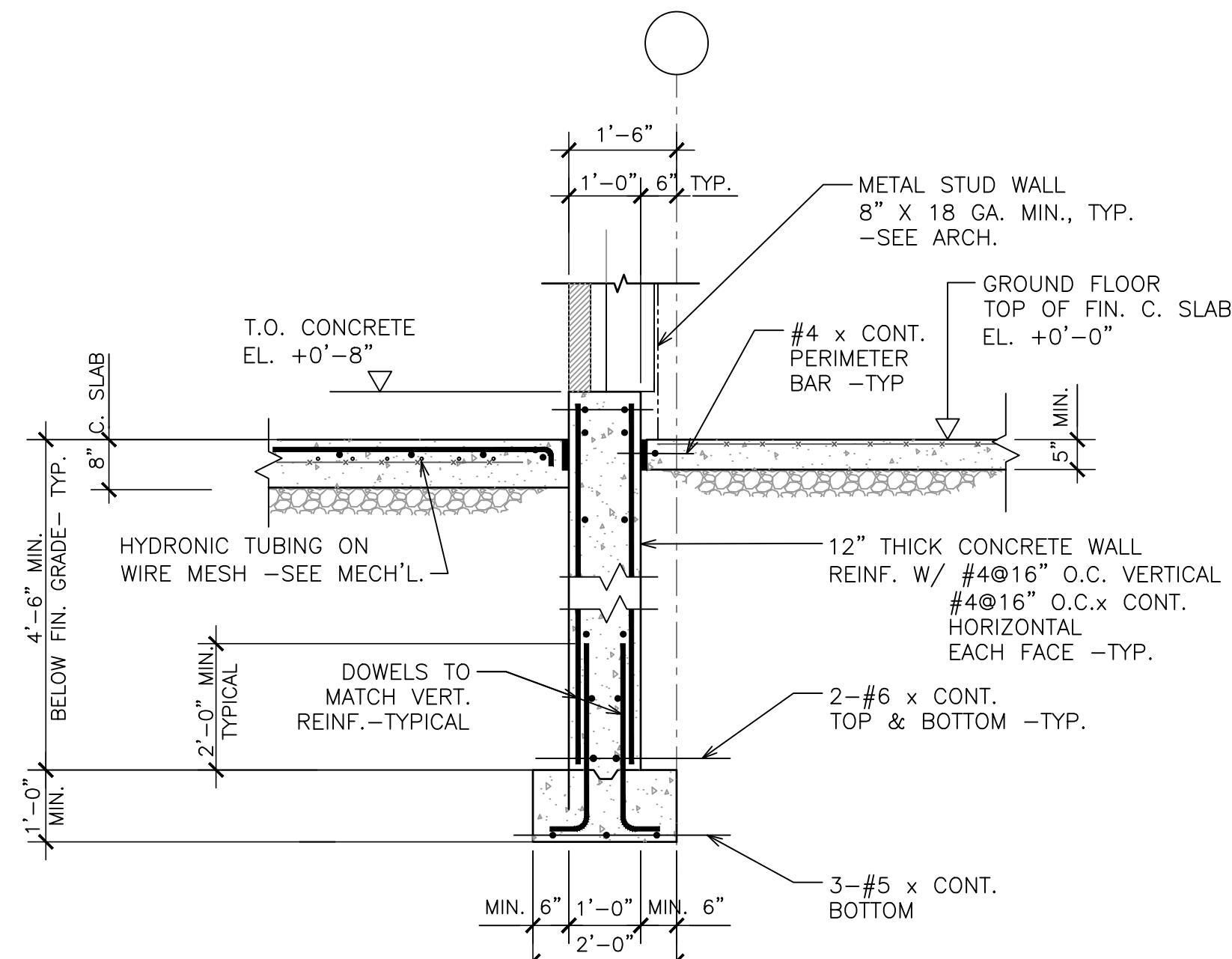
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DATE:
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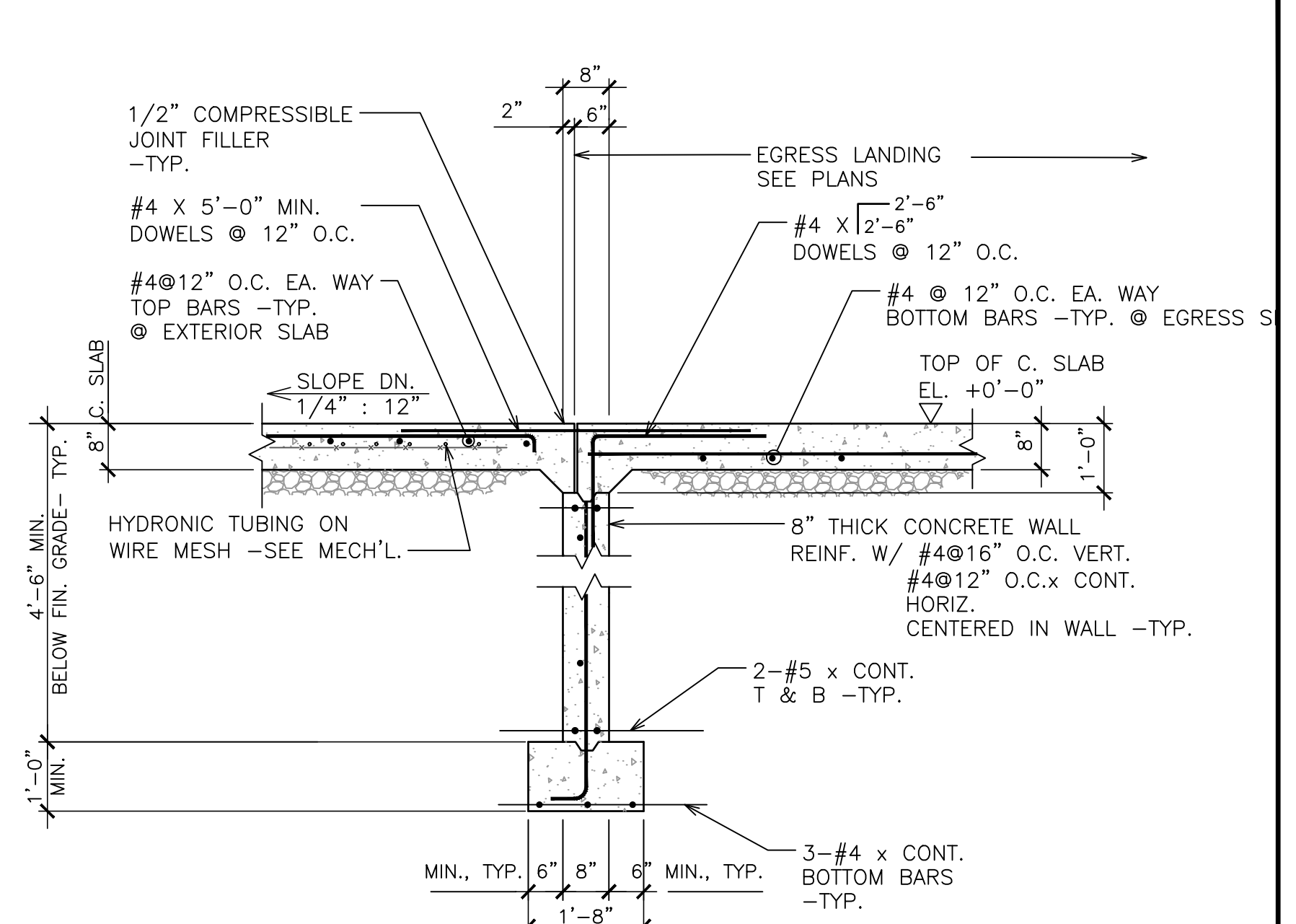
S300



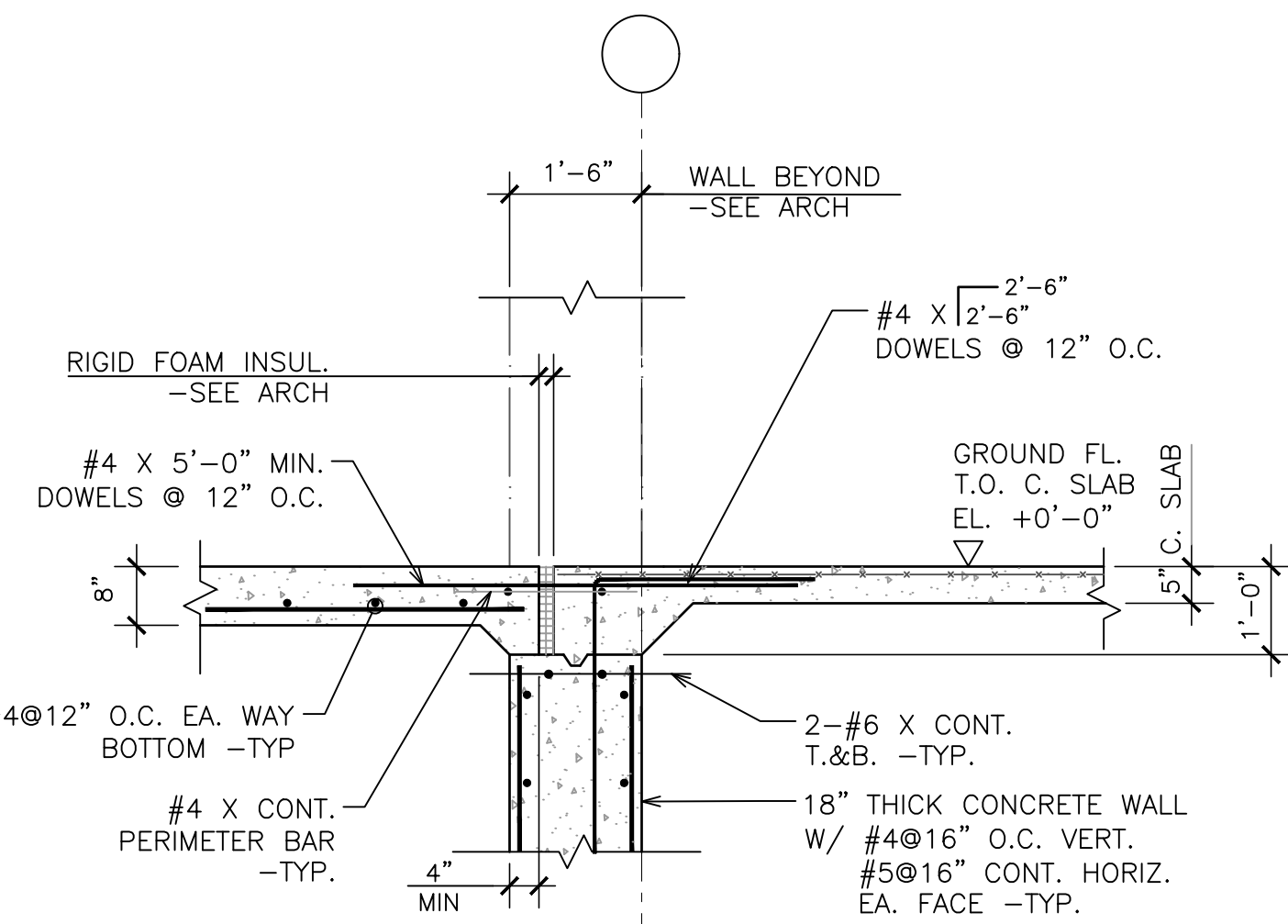
SECTION 1
1/2" = 1'-0"



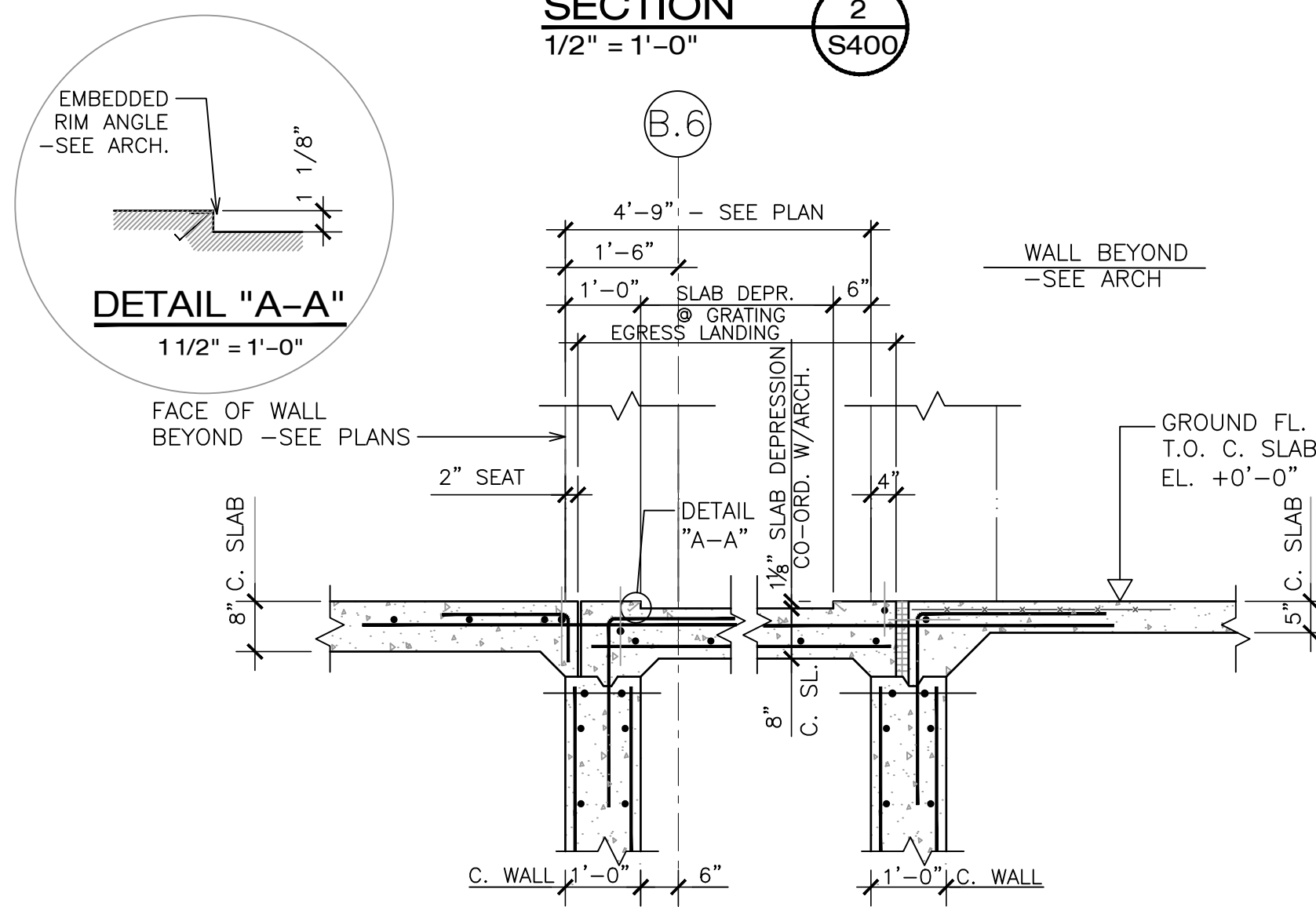
SECTION 2
1/2" = 1'-0"



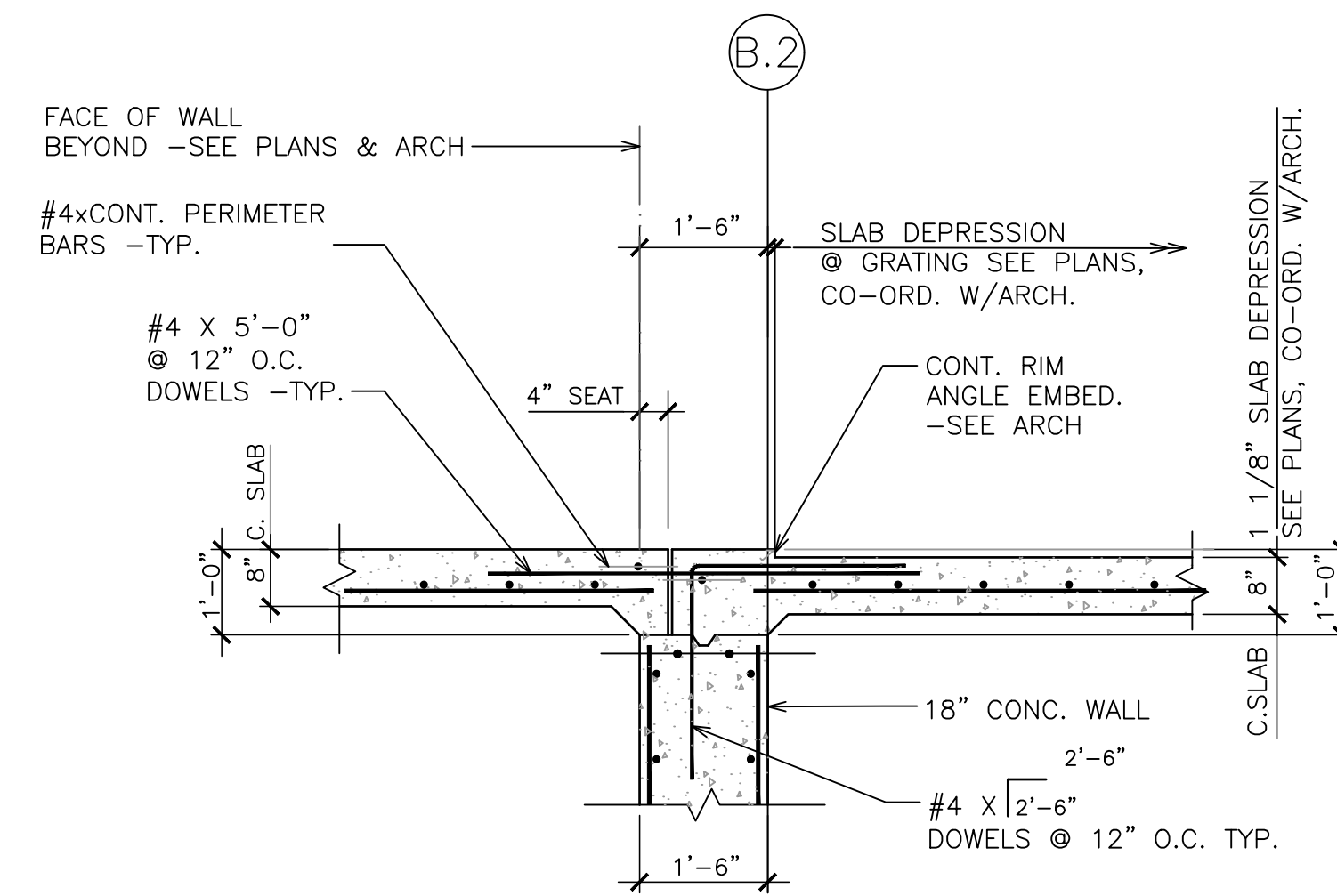
SECTION 3
1/2" = 1'-0"



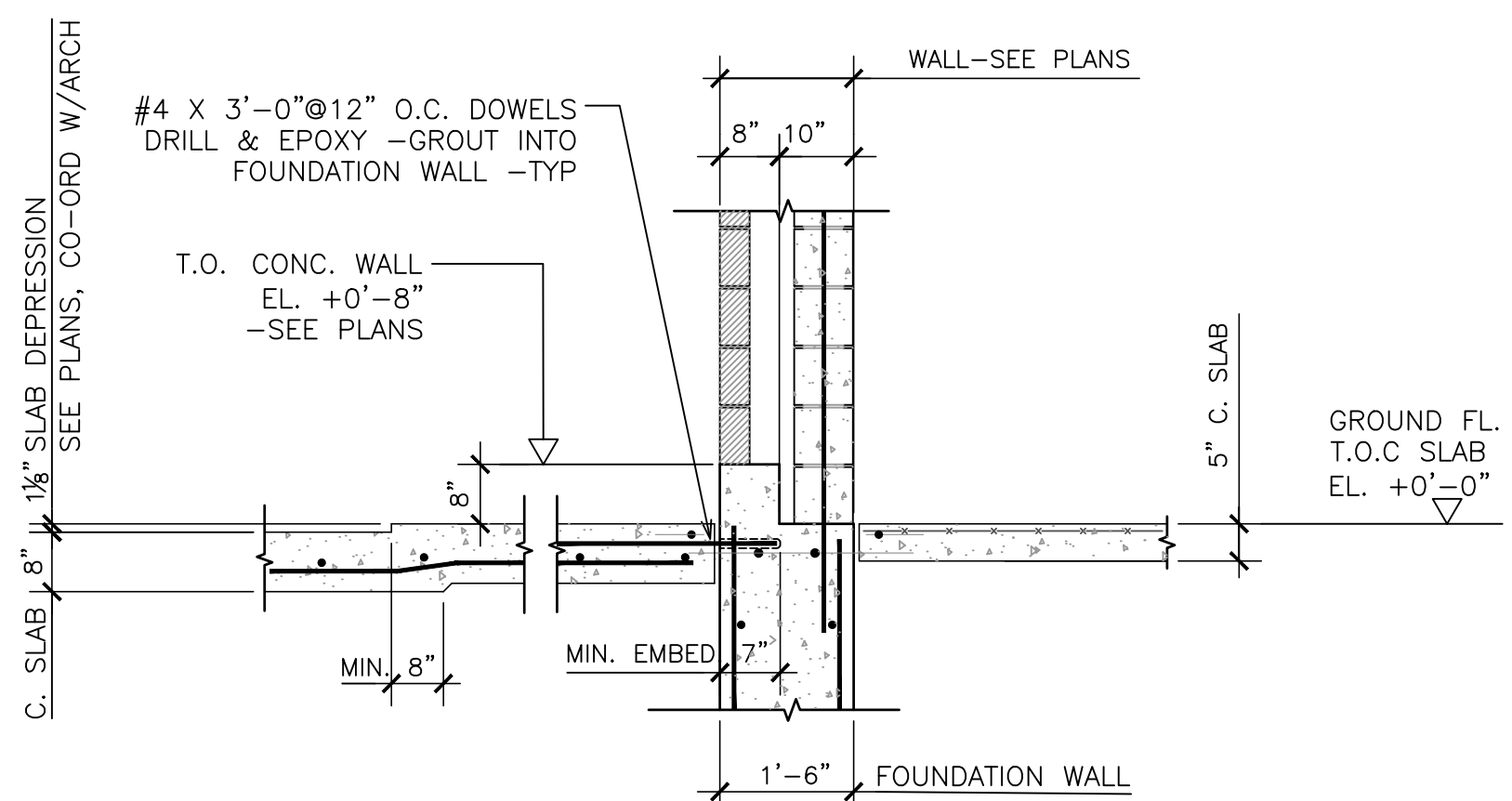
SECTION 4
1/2" = 1'-0"



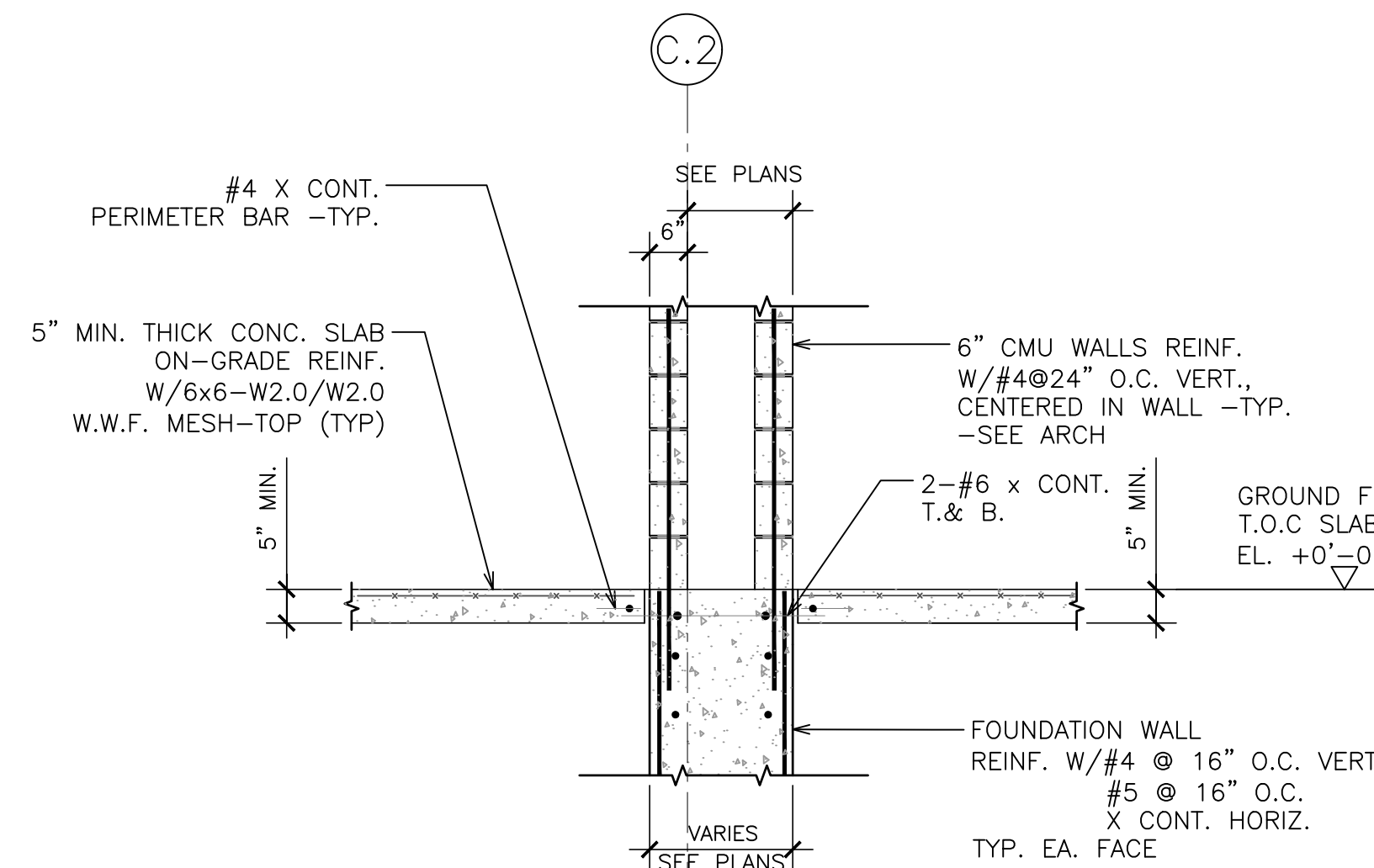
SECTION 5
1/2" = 1'-0"



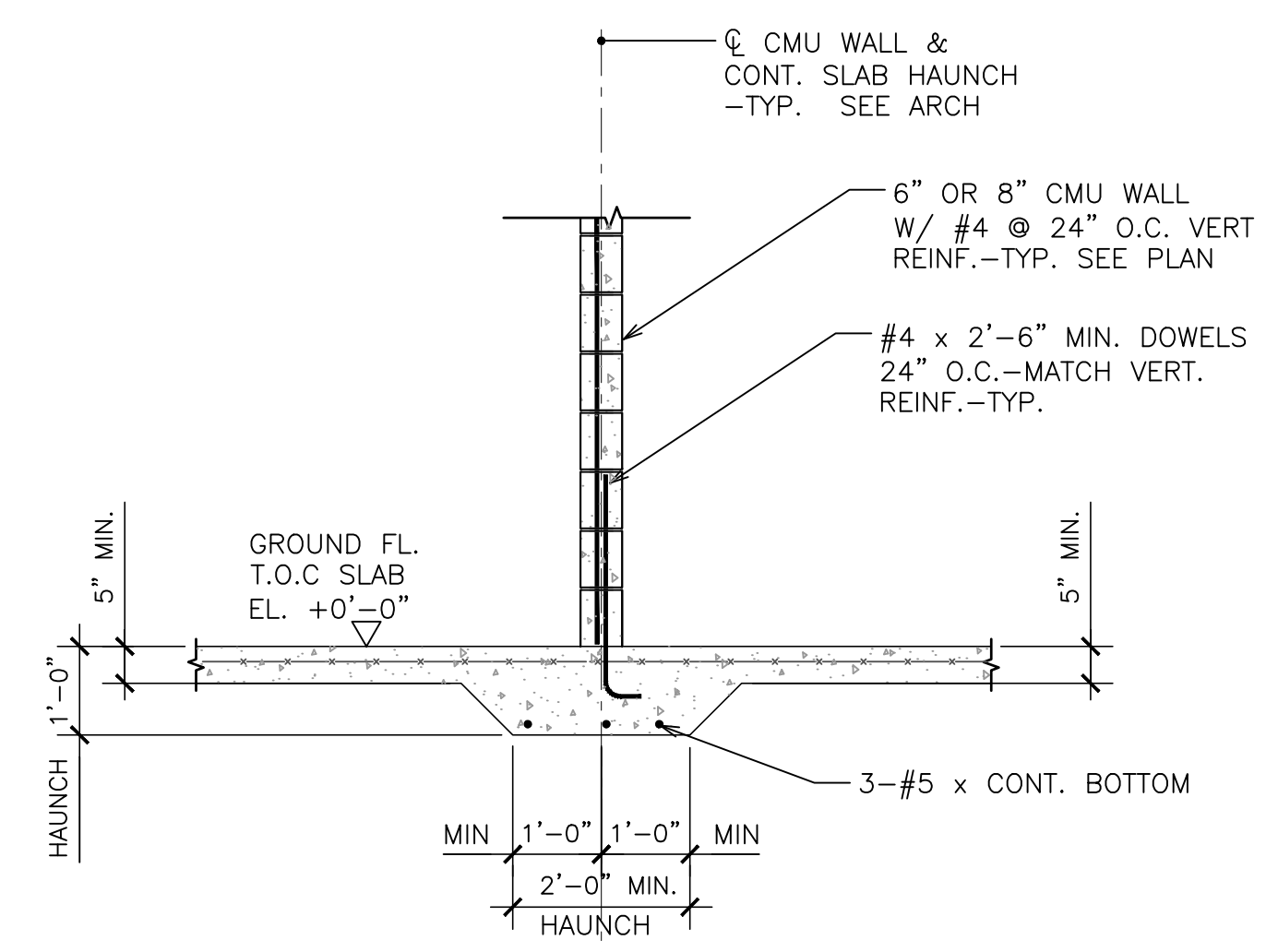
SECTION 6
1/2" = 1'-0"



SECTION 7
1/2" = 1'-0"

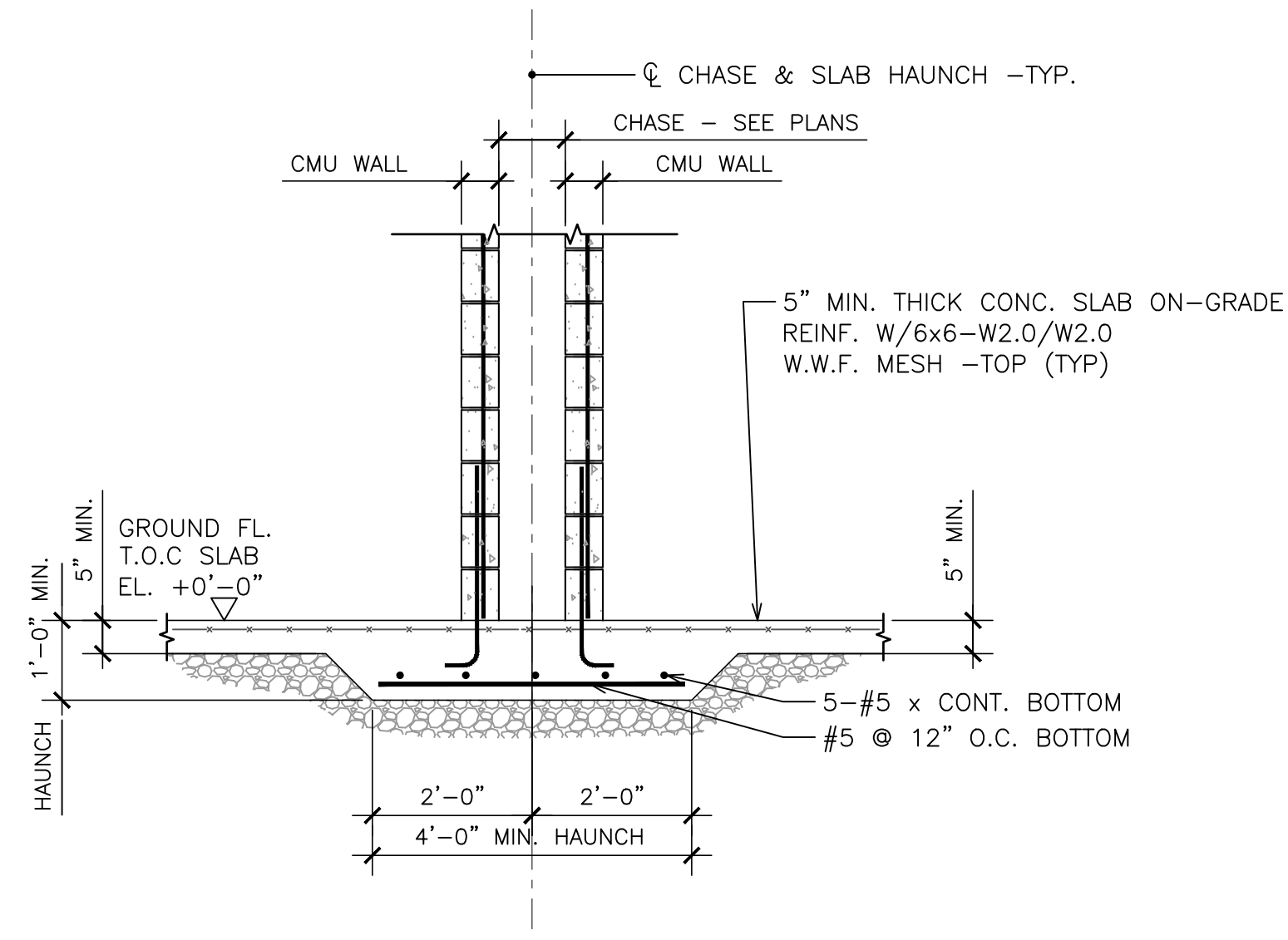


SECTION 8
1/2" = 1'-0"



SECTION 9
1/2" = 1'-0"

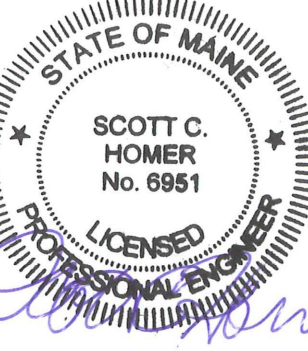
PROJ. NUMBER:	2020/15
REV.	DATE
DRAWN BY:	RVL
DESCRIPTION	



SECTION 1
1/2" = 1'-0" S401



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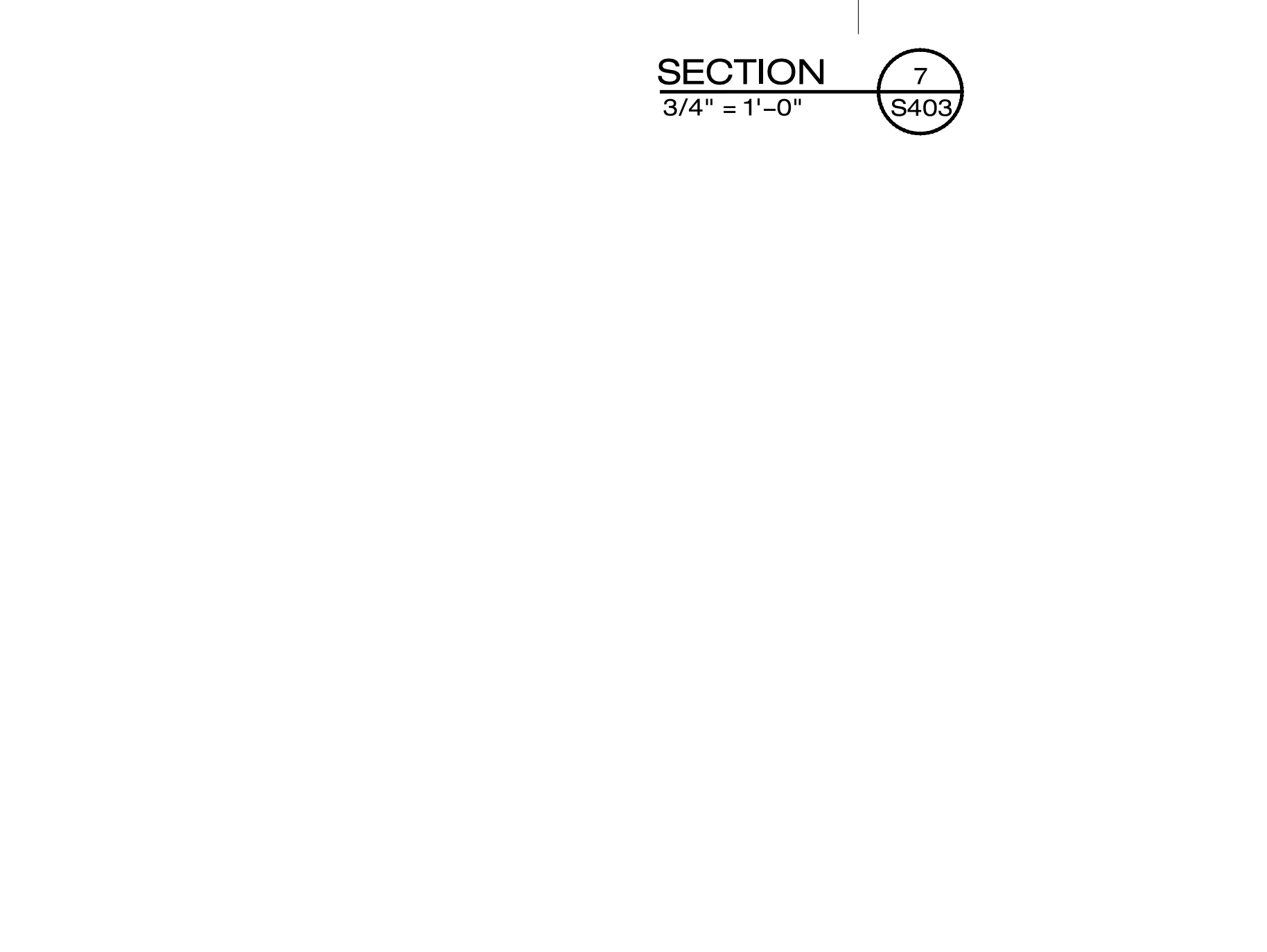
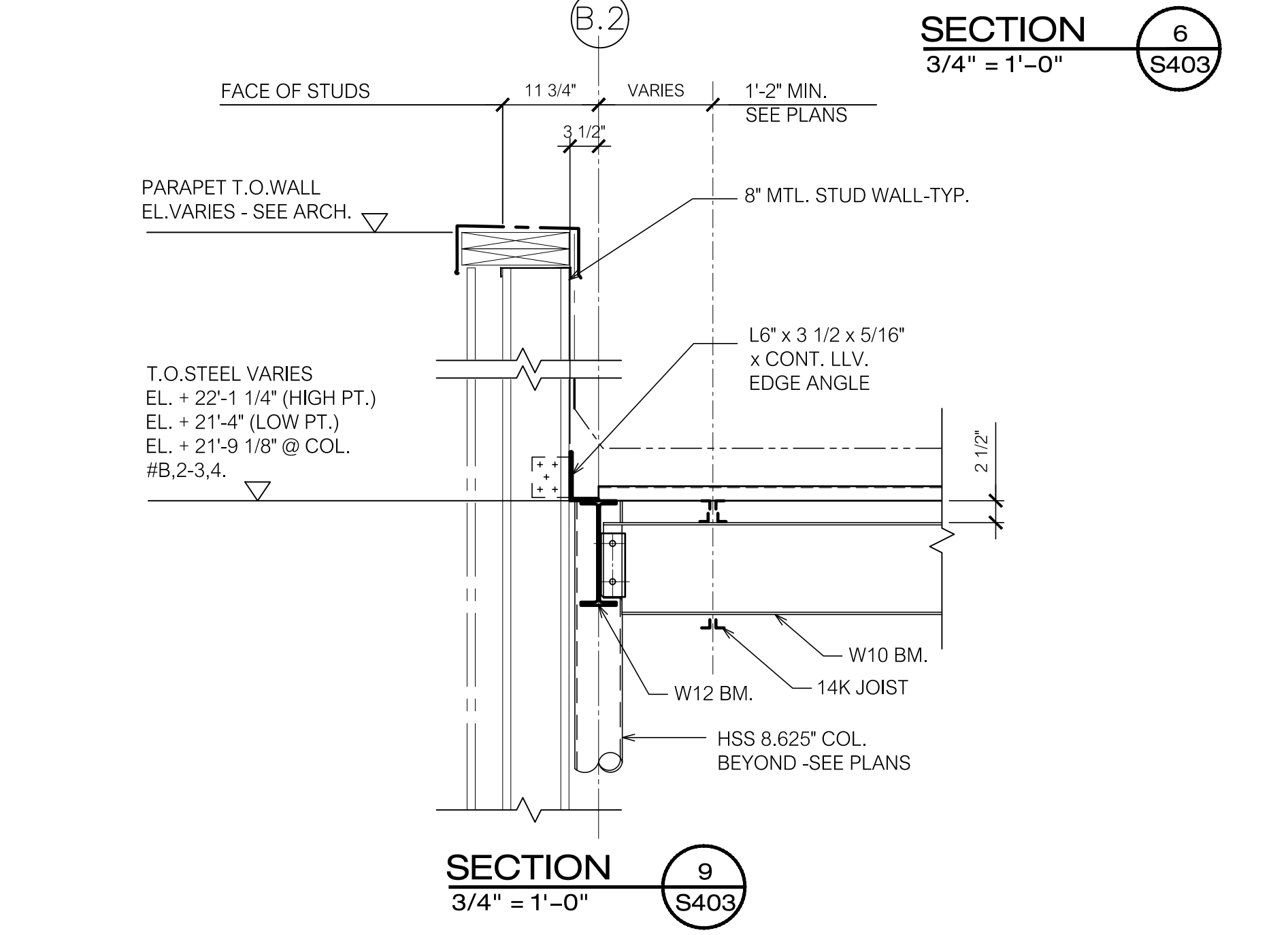
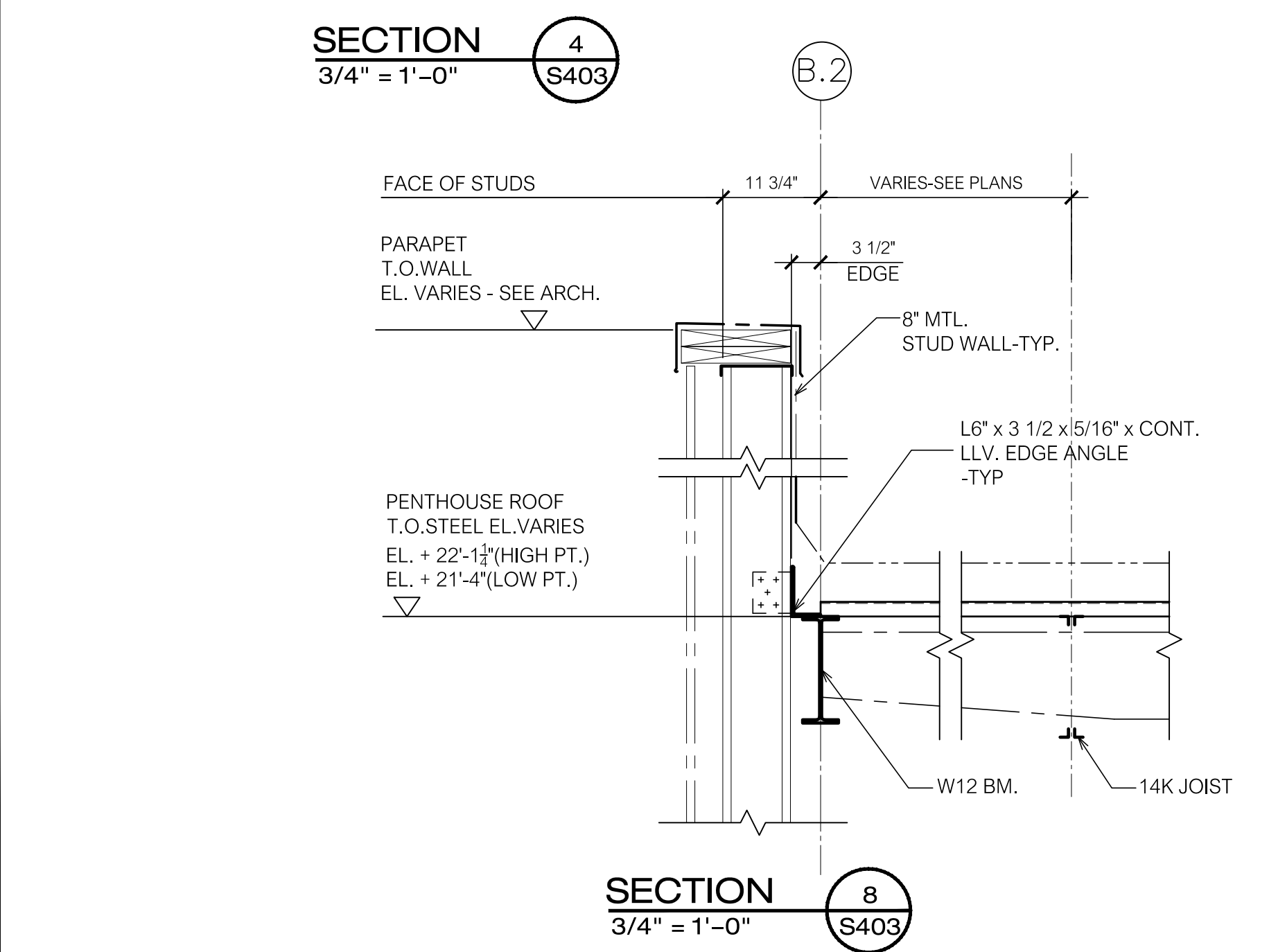
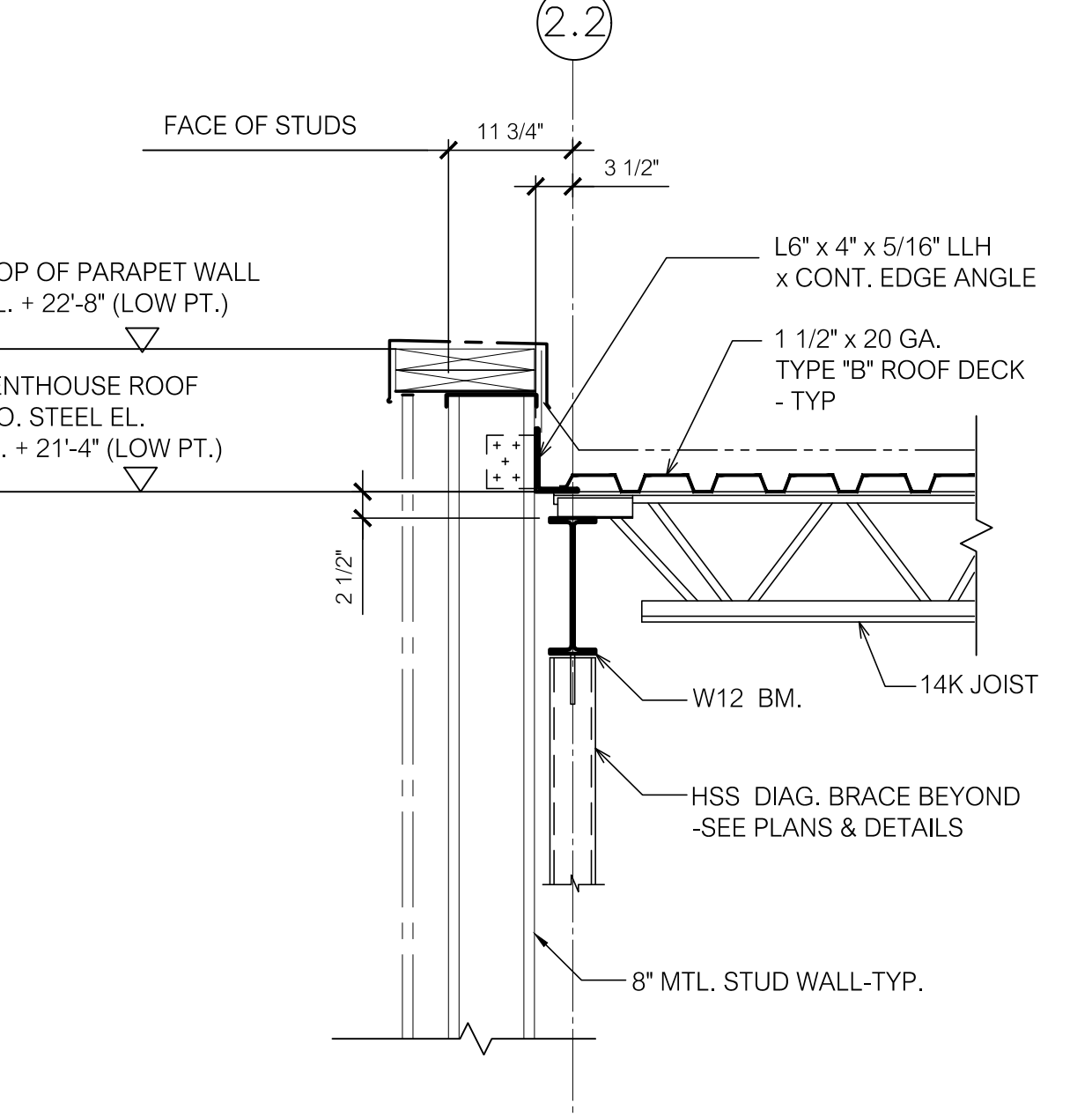
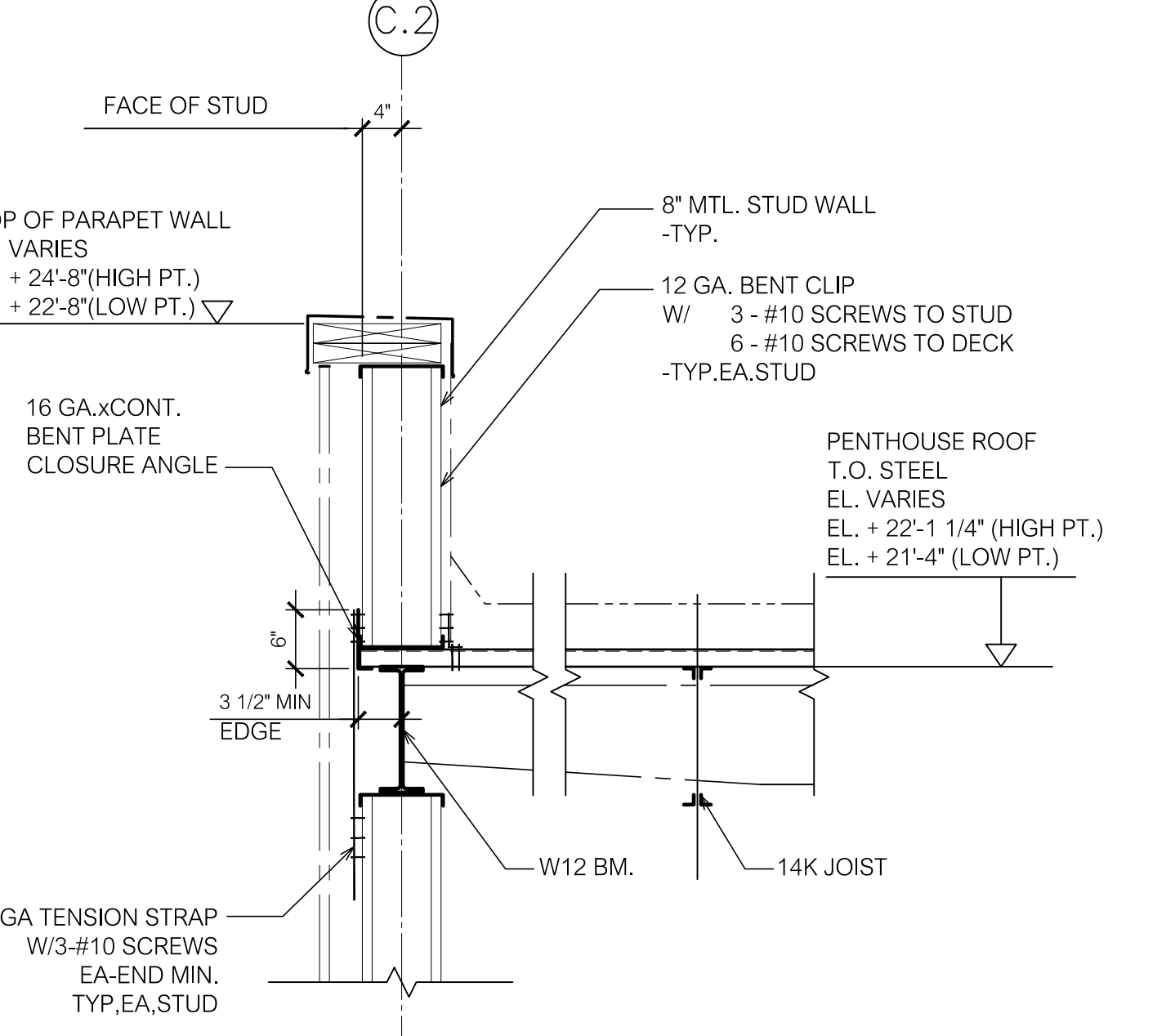
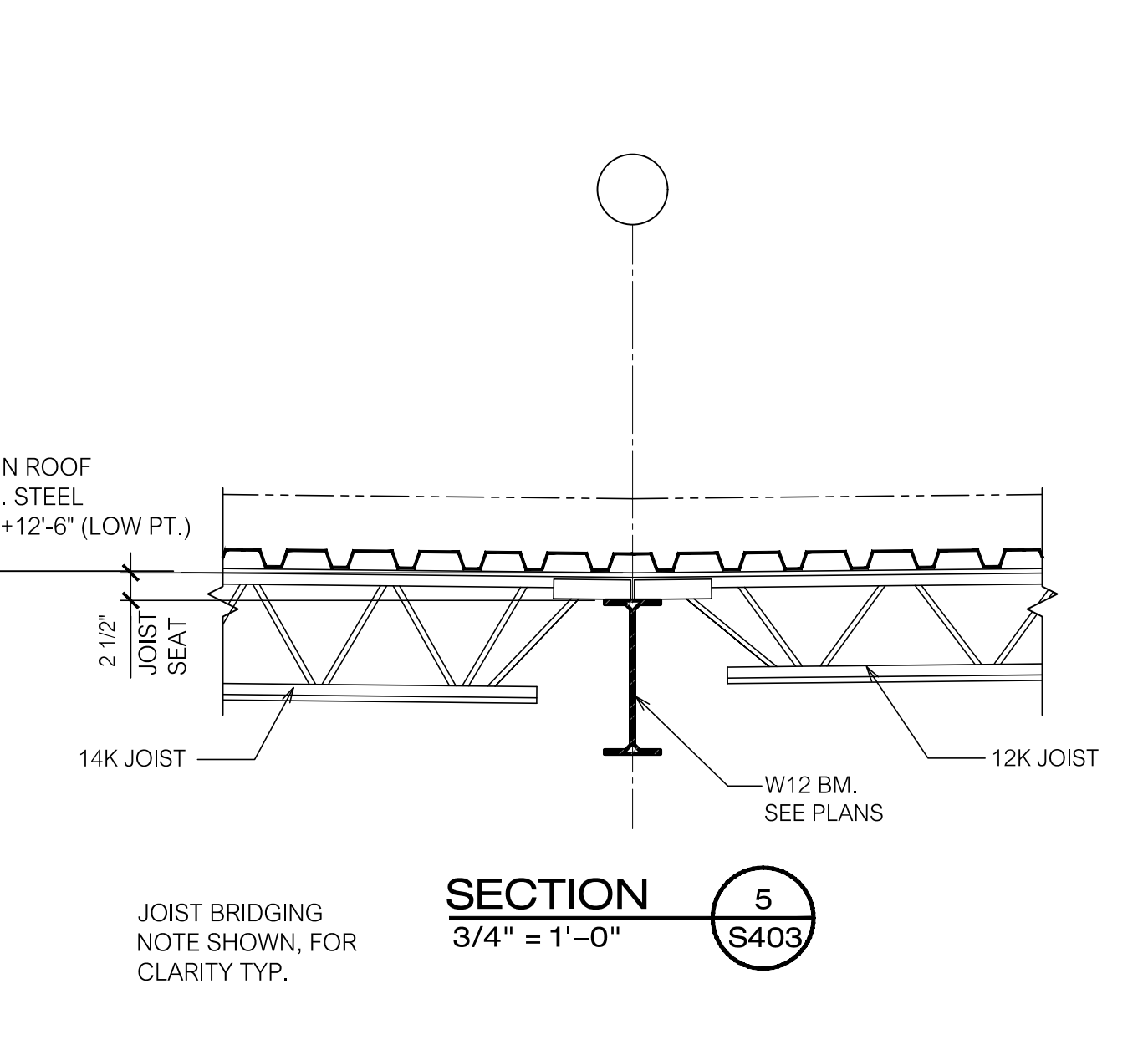
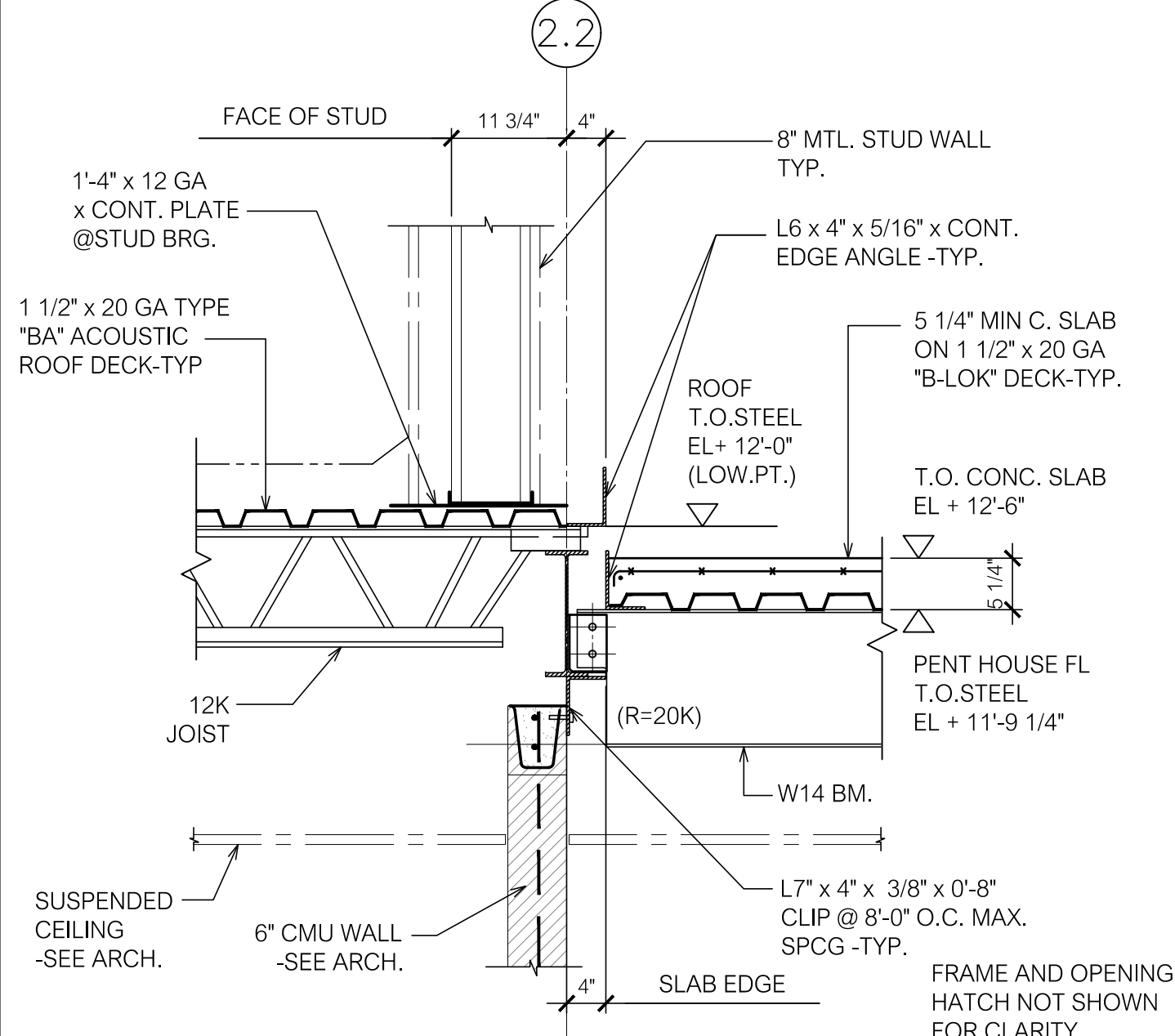
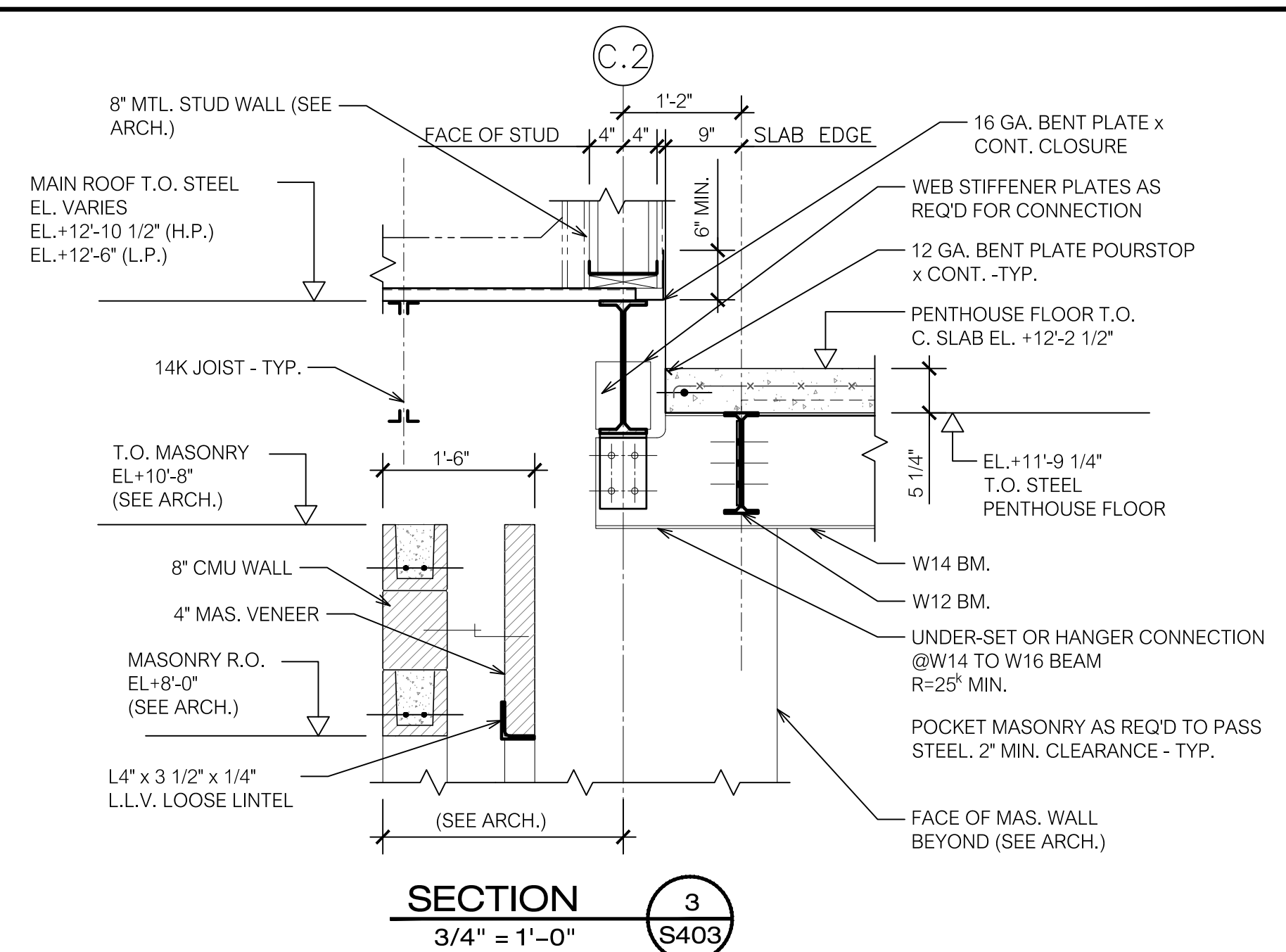
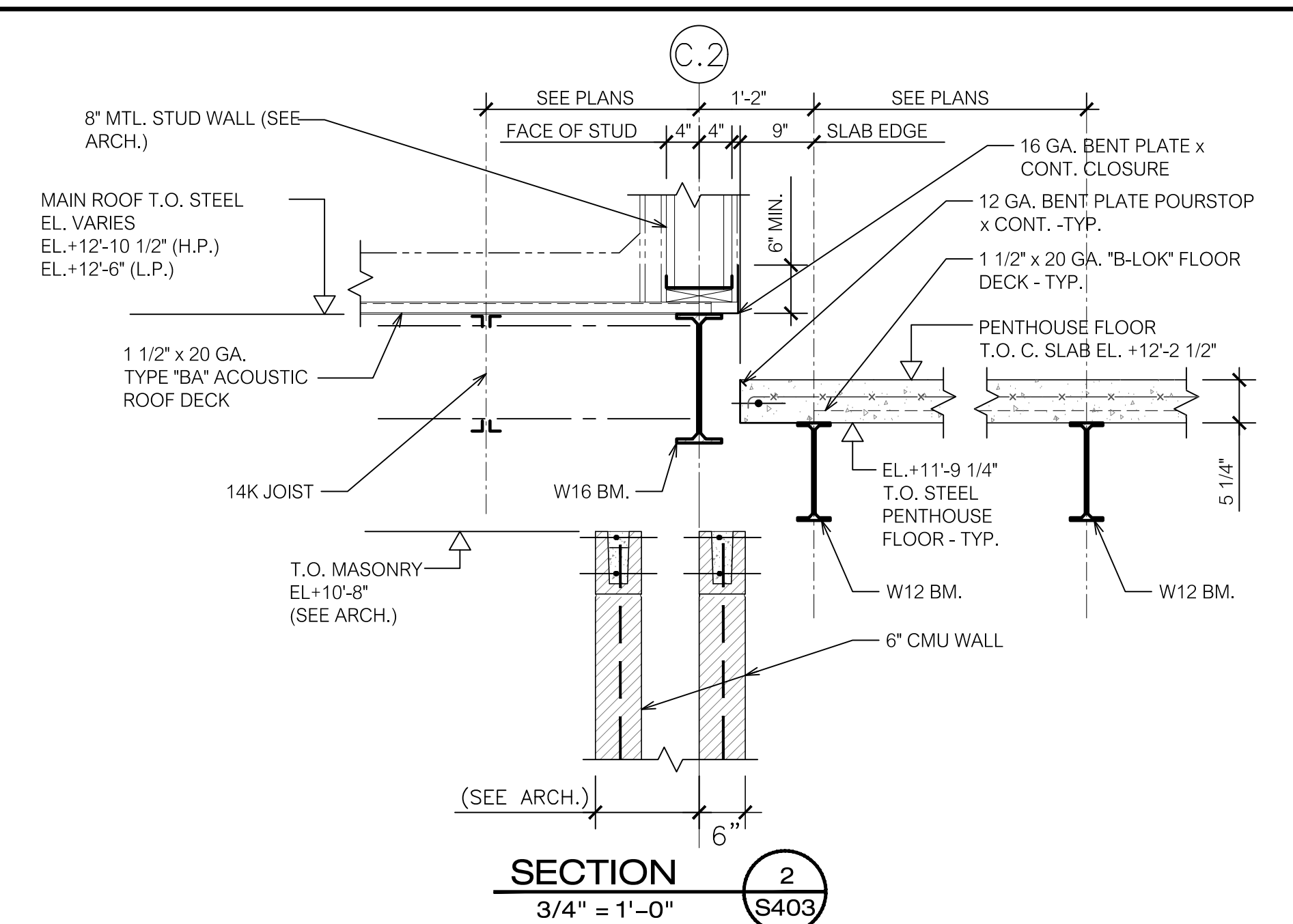
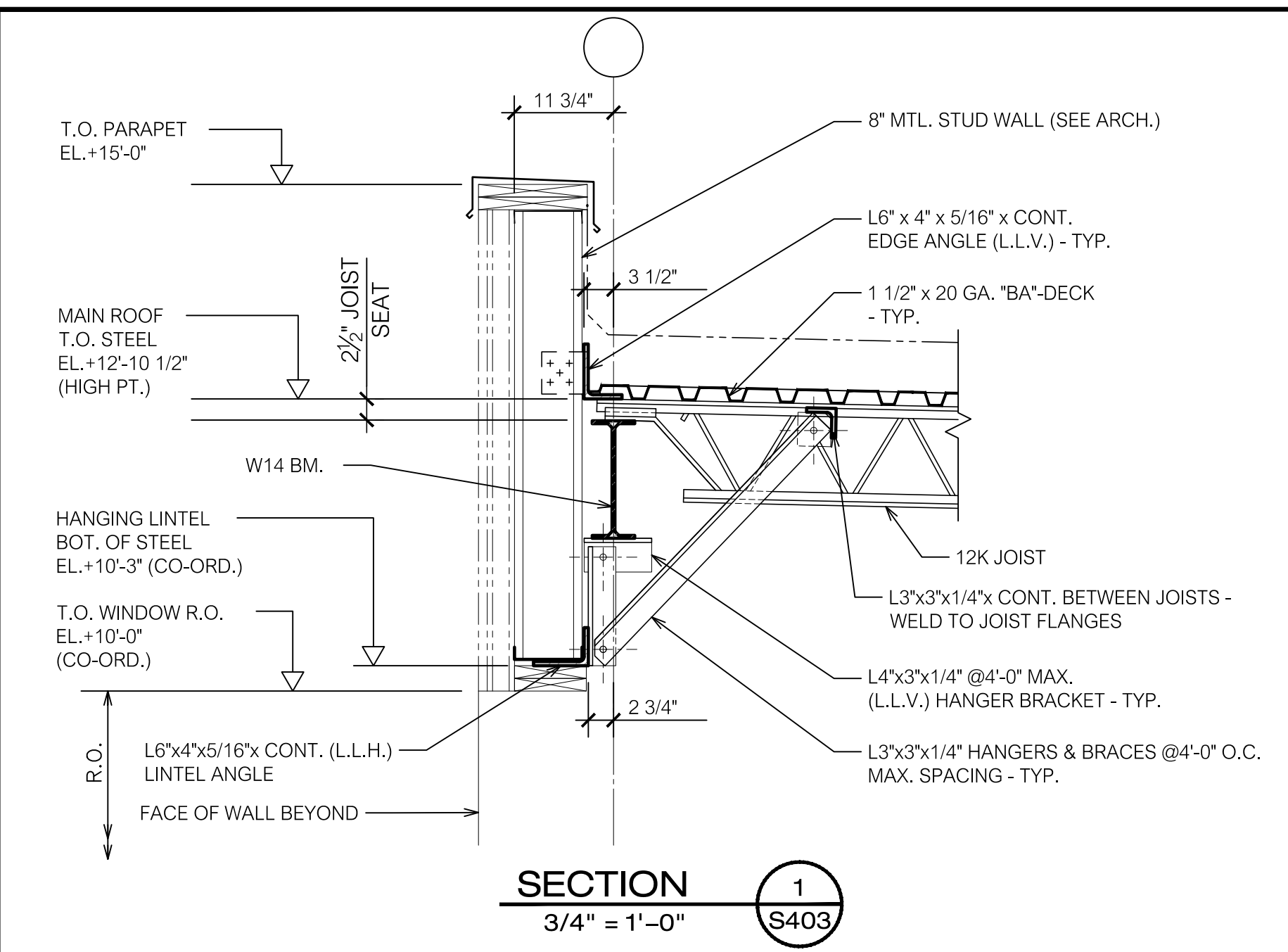
FOUNDATION DETAILS

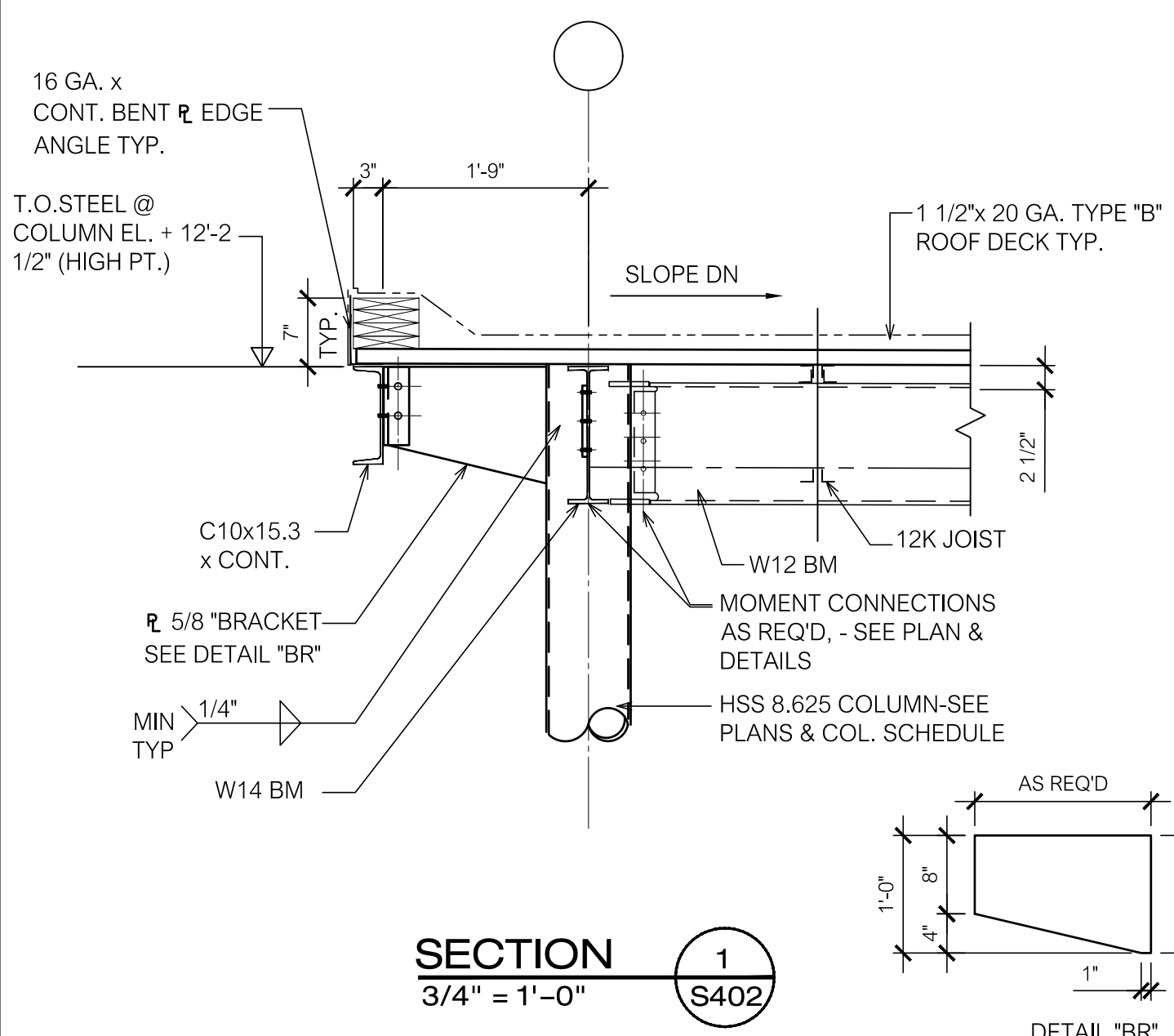
PROJ. NUMBER:	DATE	DRAWN BY:	DESCRIPTION
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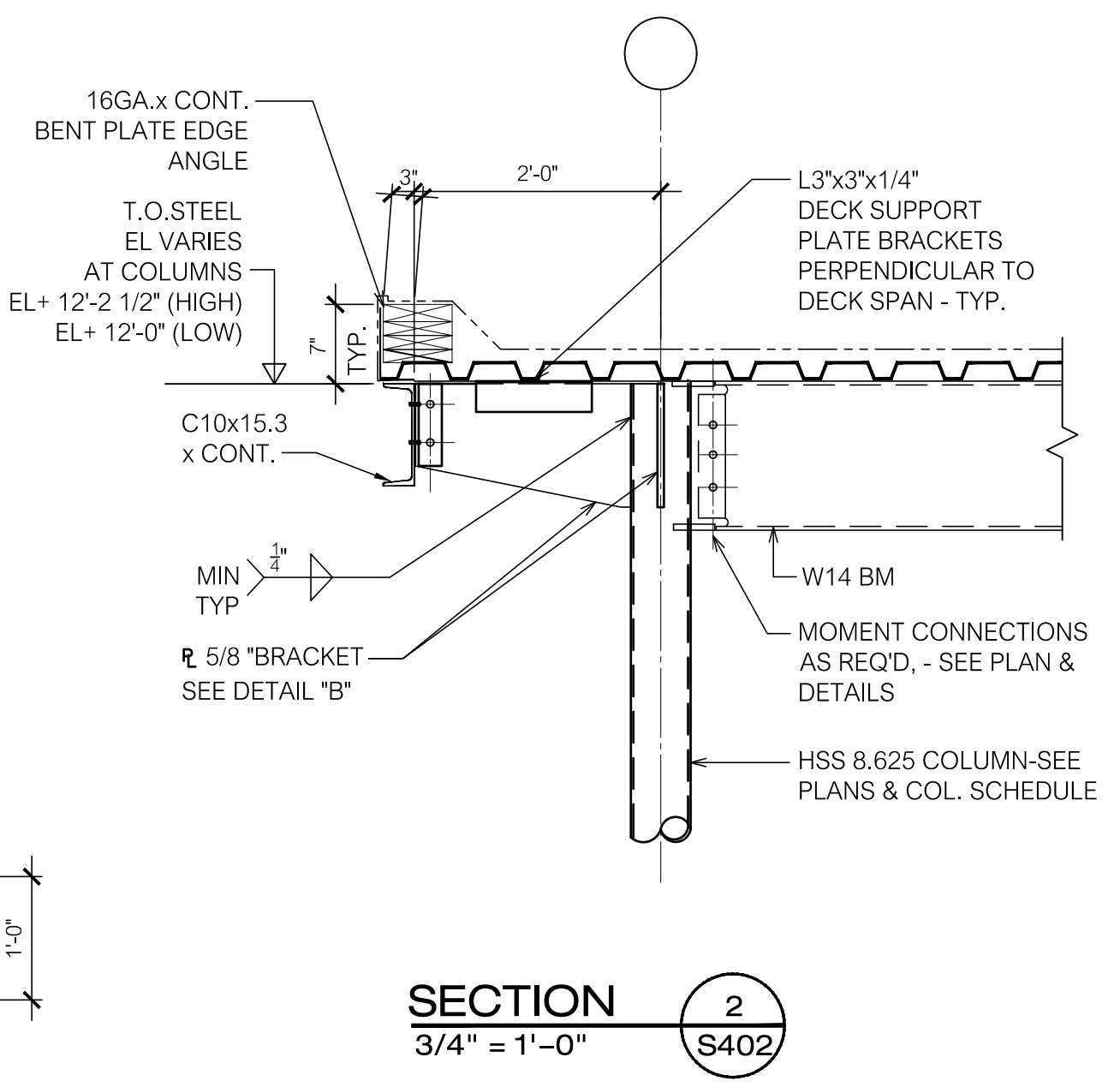
DATE:
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S401

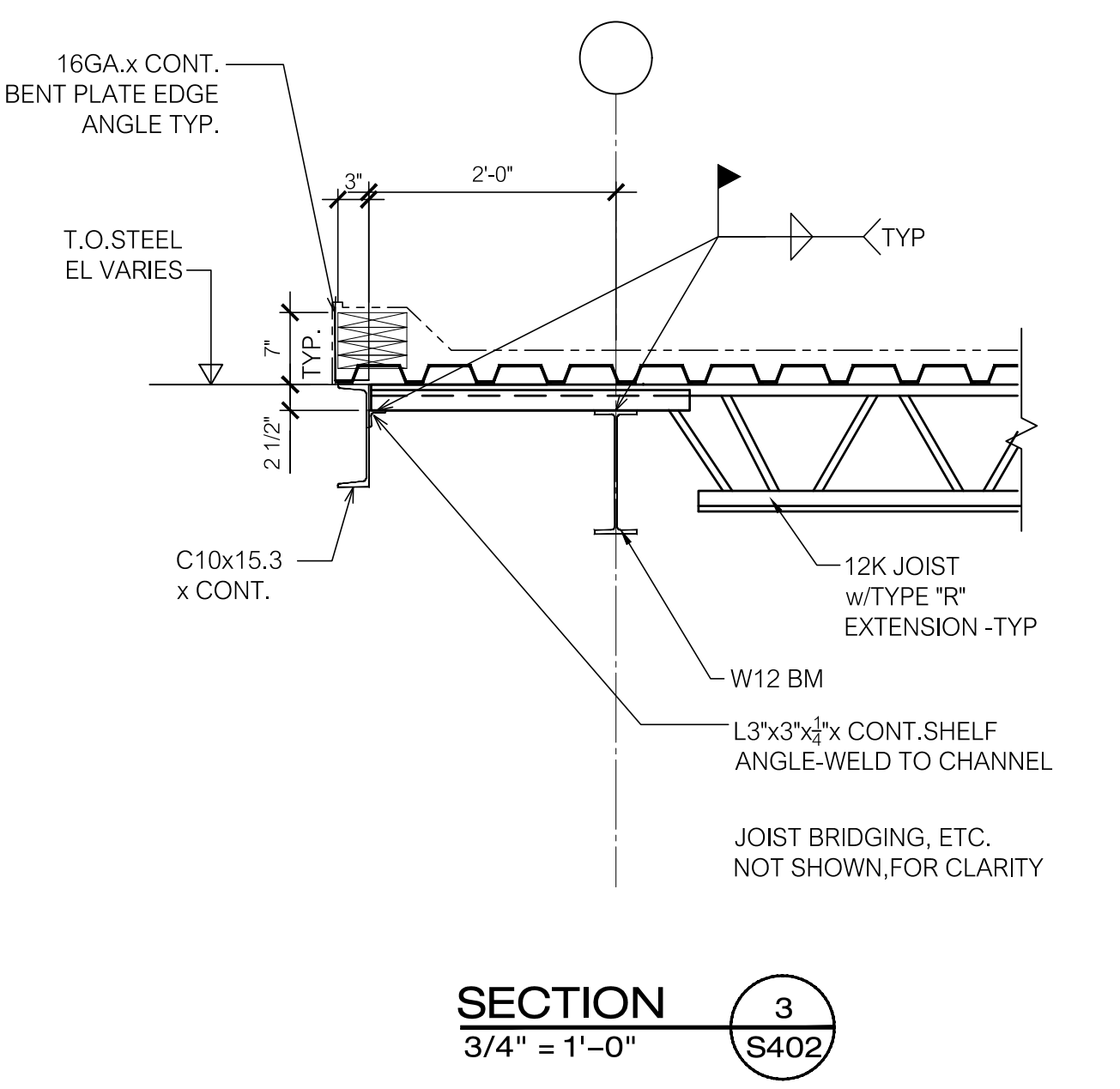




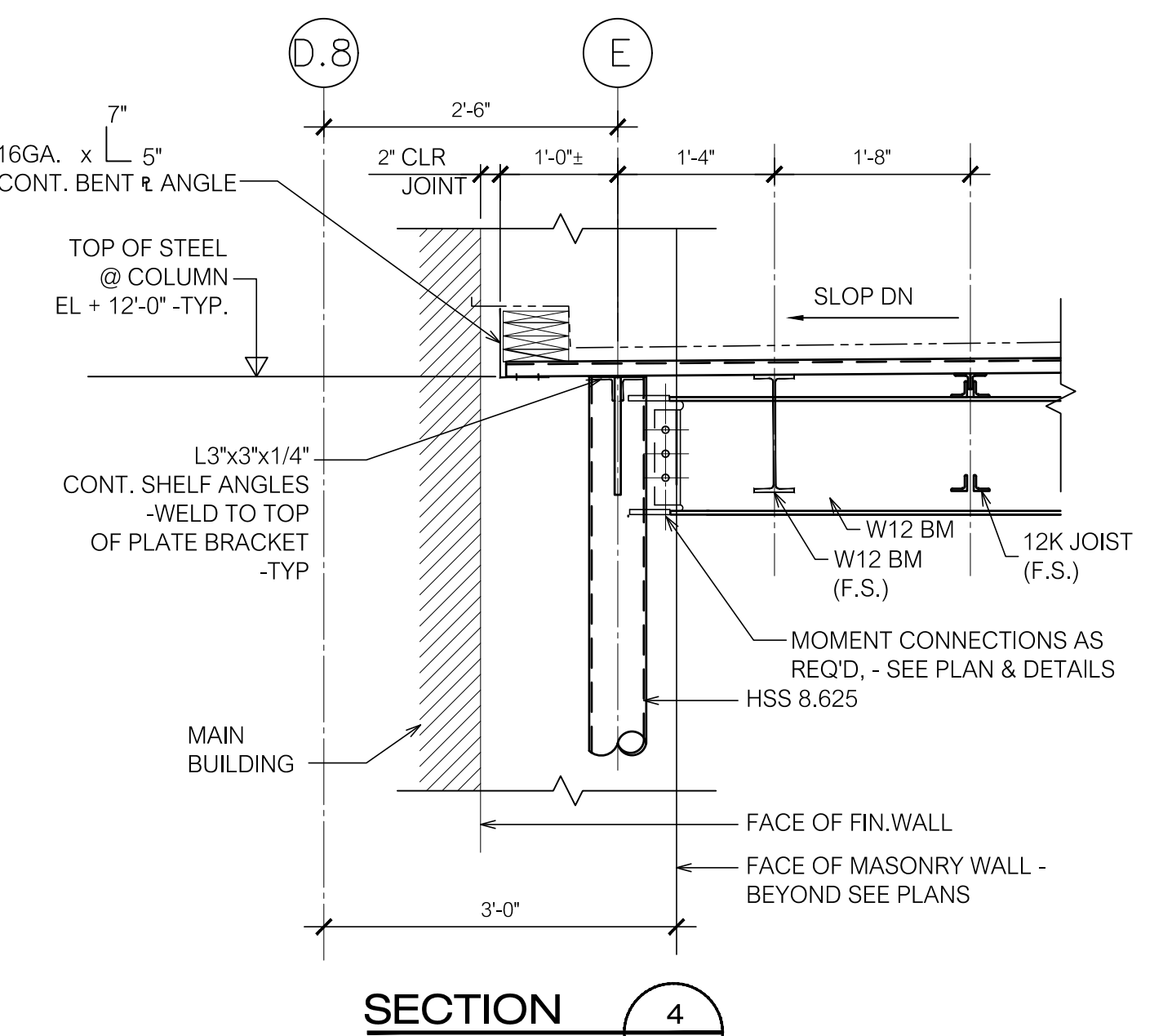
SECTION 1
3/4" = 1'-0" S402



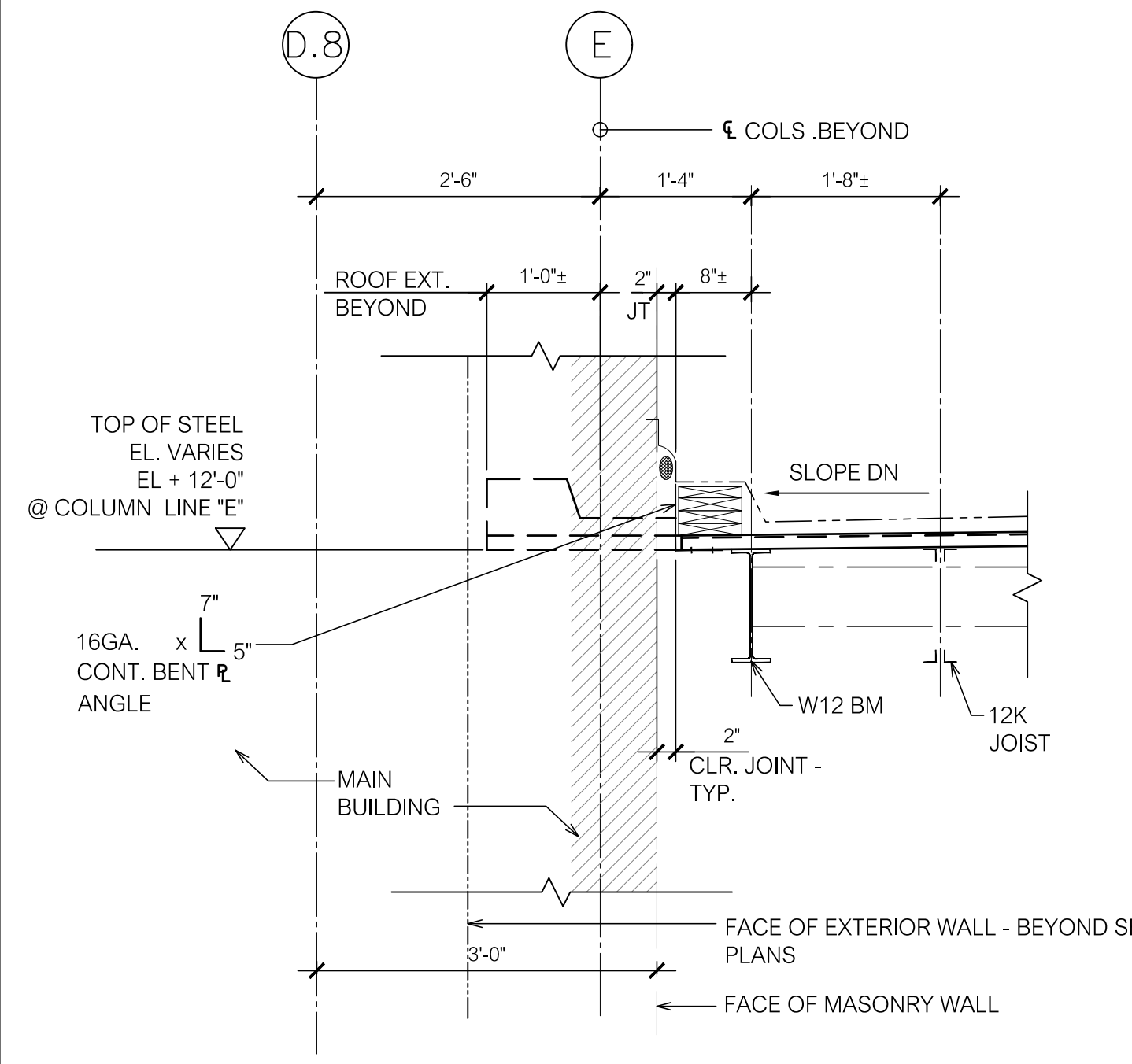
SECTION 2
3/4" = 1'-0" S402



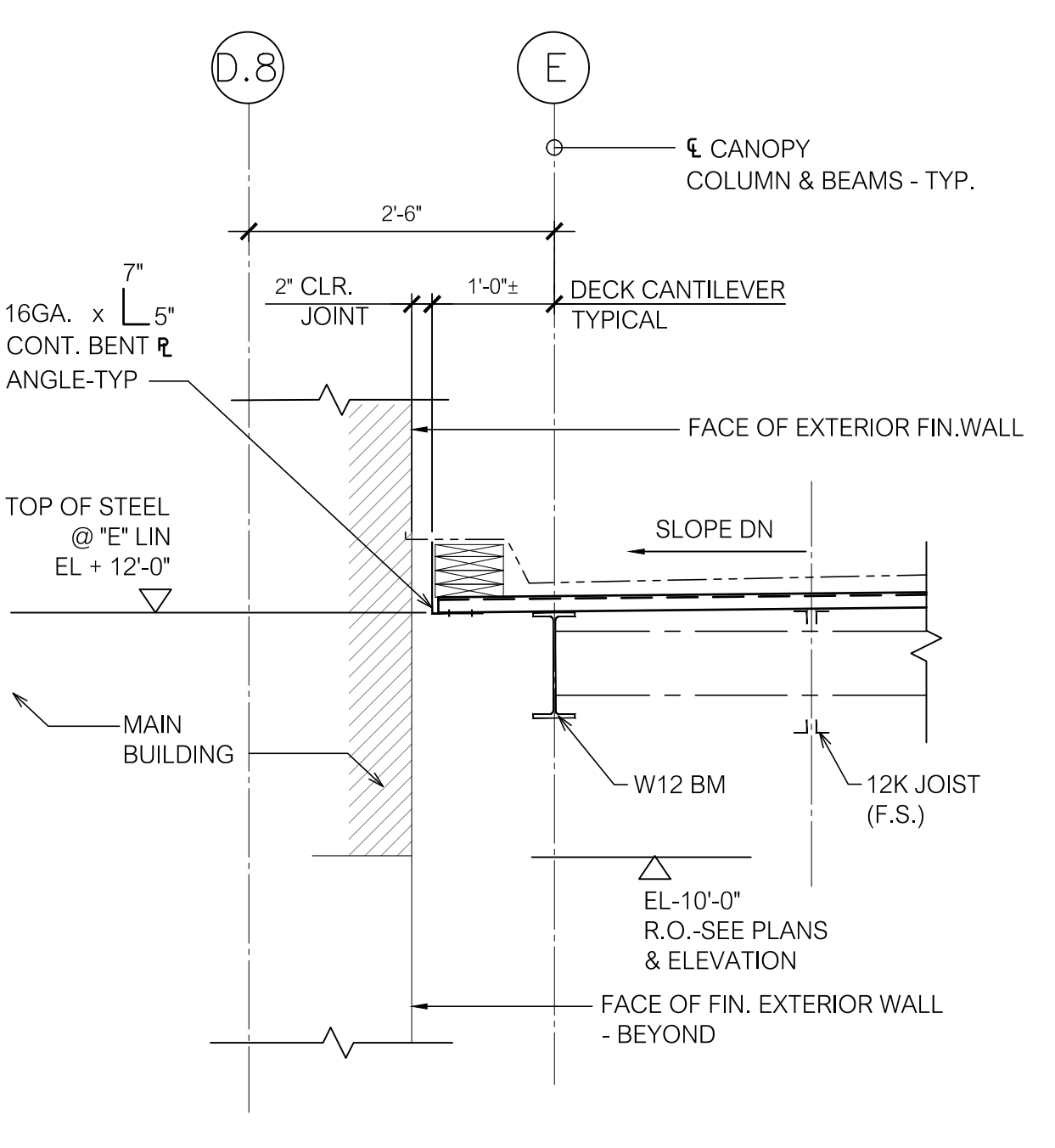
SECTION 3
3/4" = 1'-0" S402



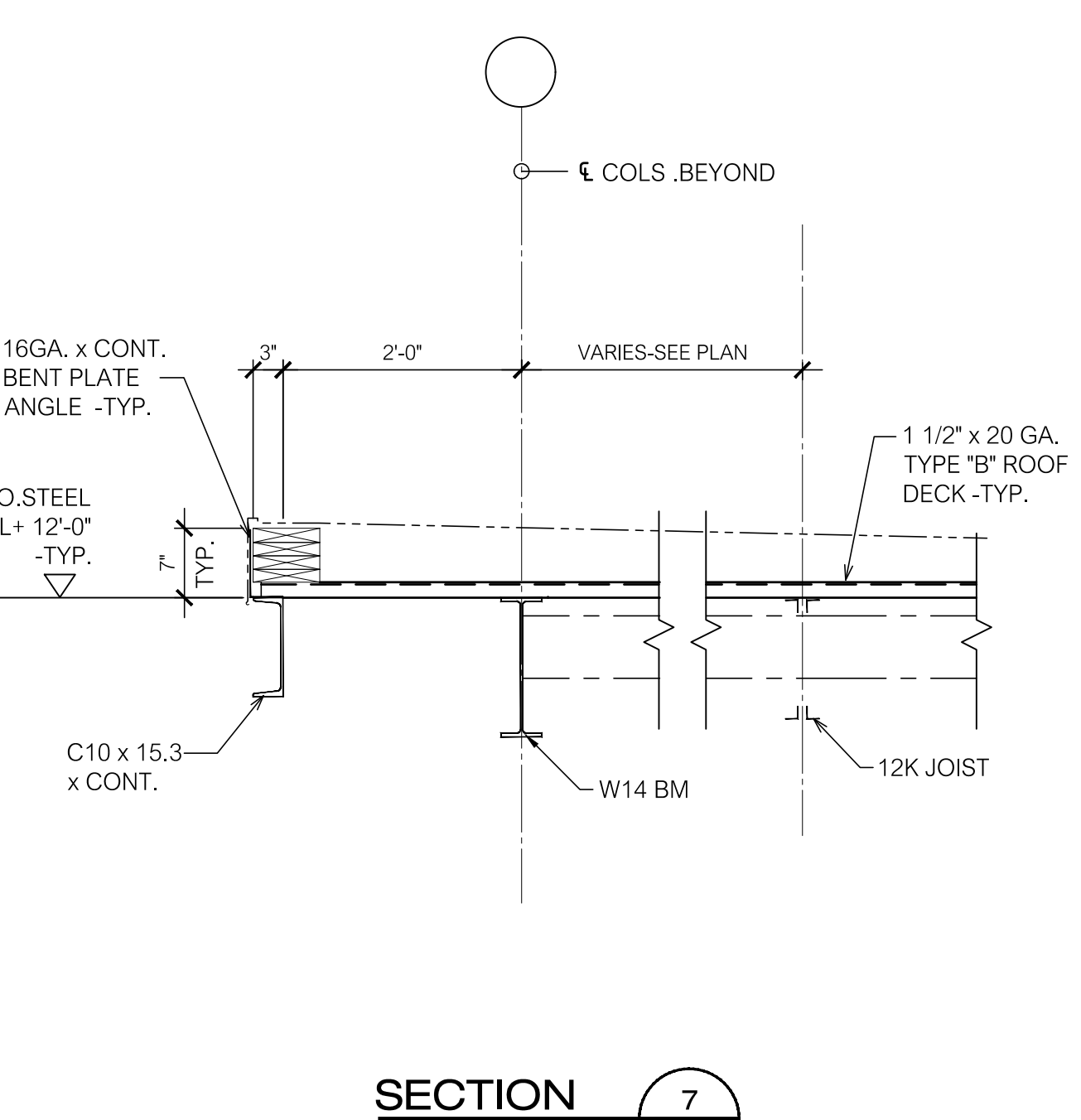
SECTION 4
3/4" = 1'-0" S402



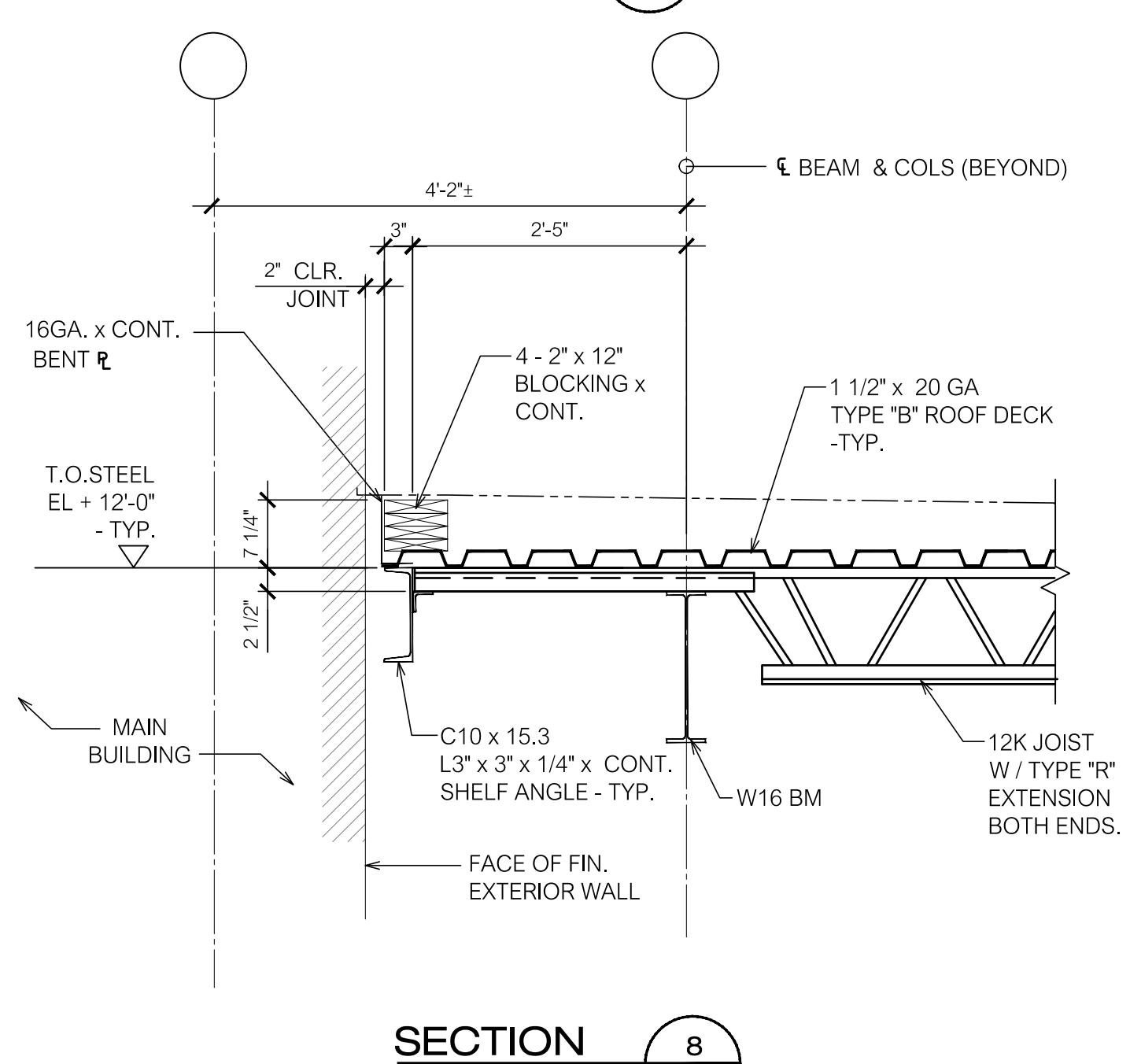
SECTION 5
3/4" = 1'-0" S402



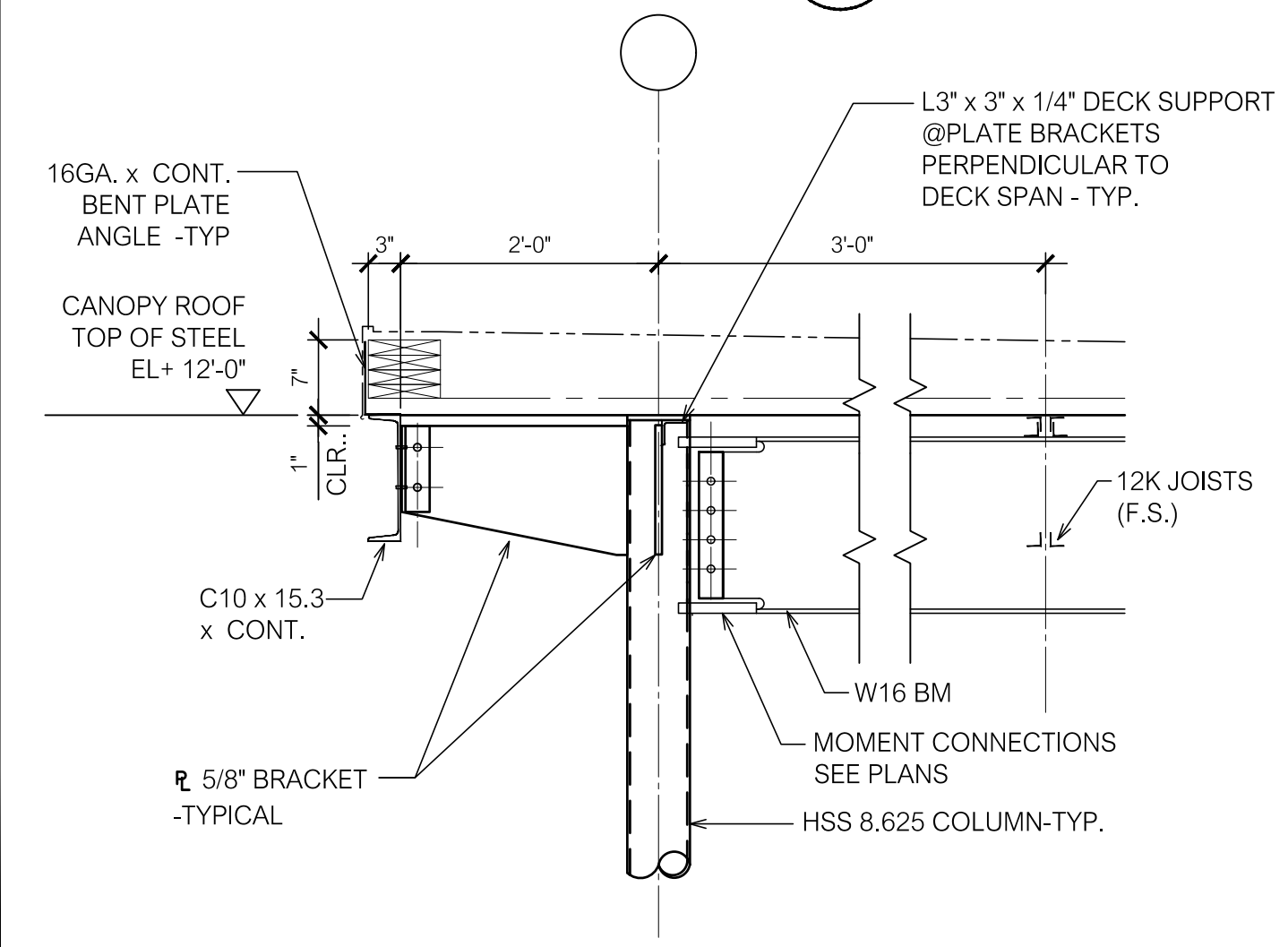
SECTION 6
3/4" = 1'-0" S402



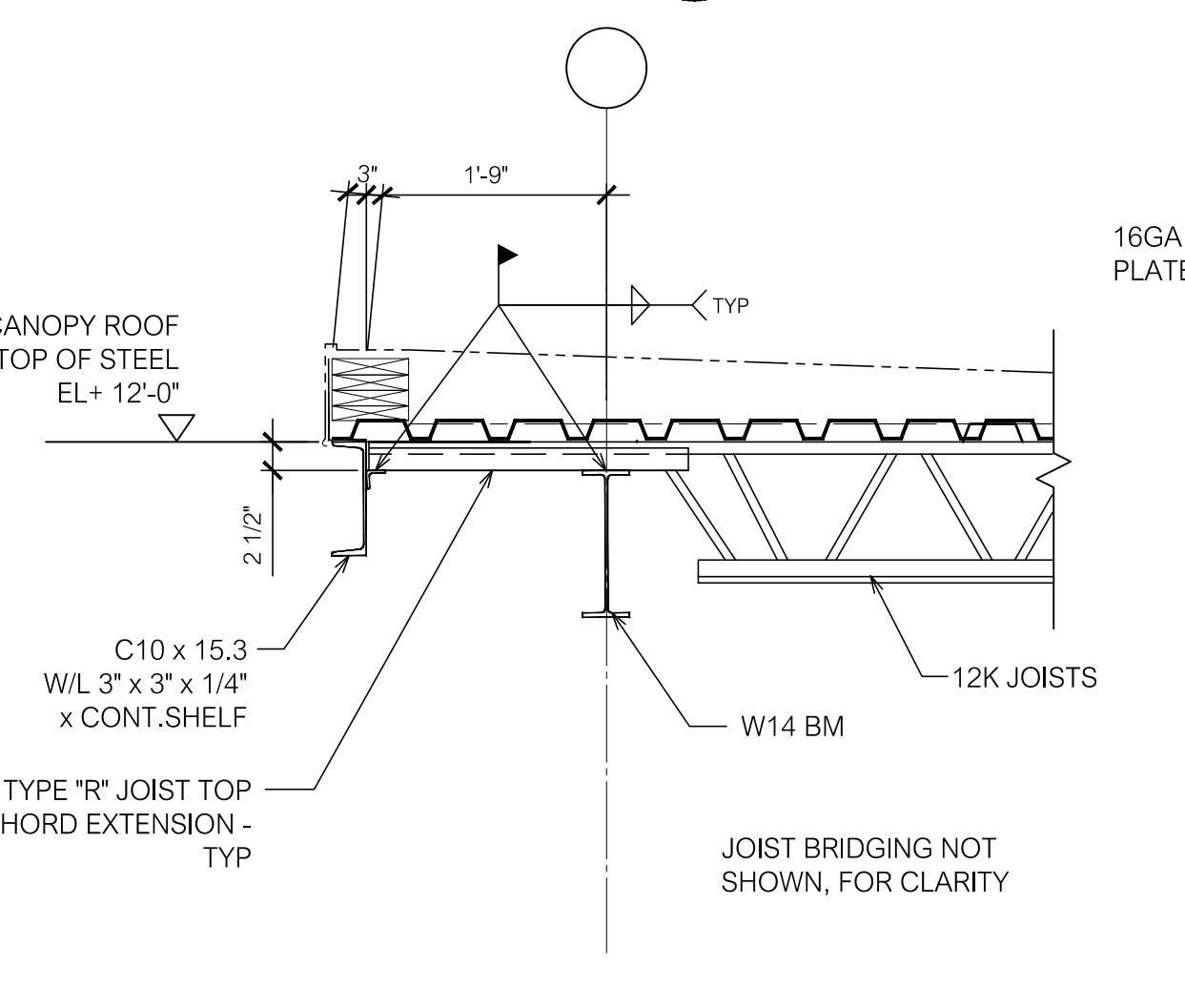
SECTION 7
3/4" = 1'-0" S402



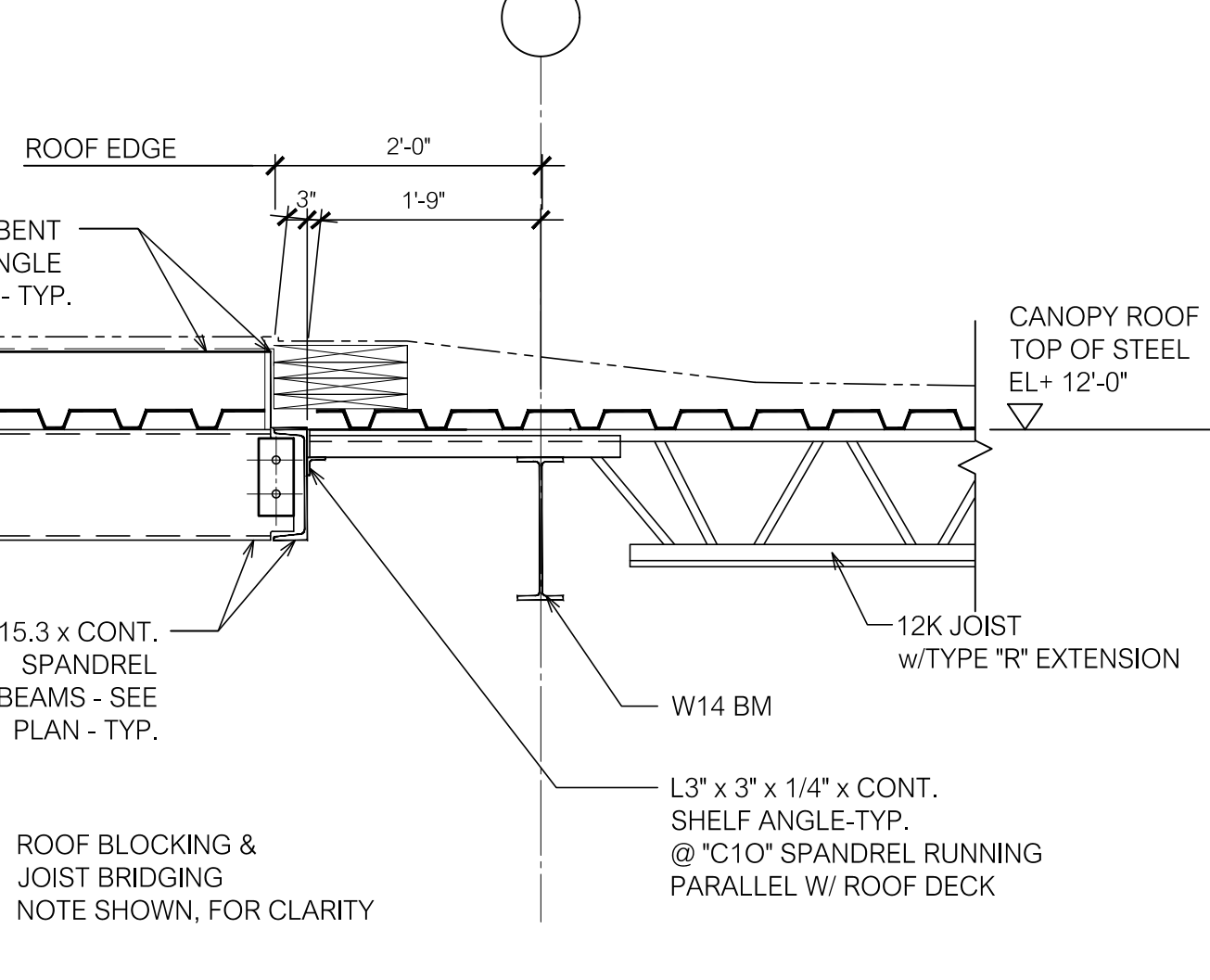
SECTION 8
3/4" = 1'-0" S402



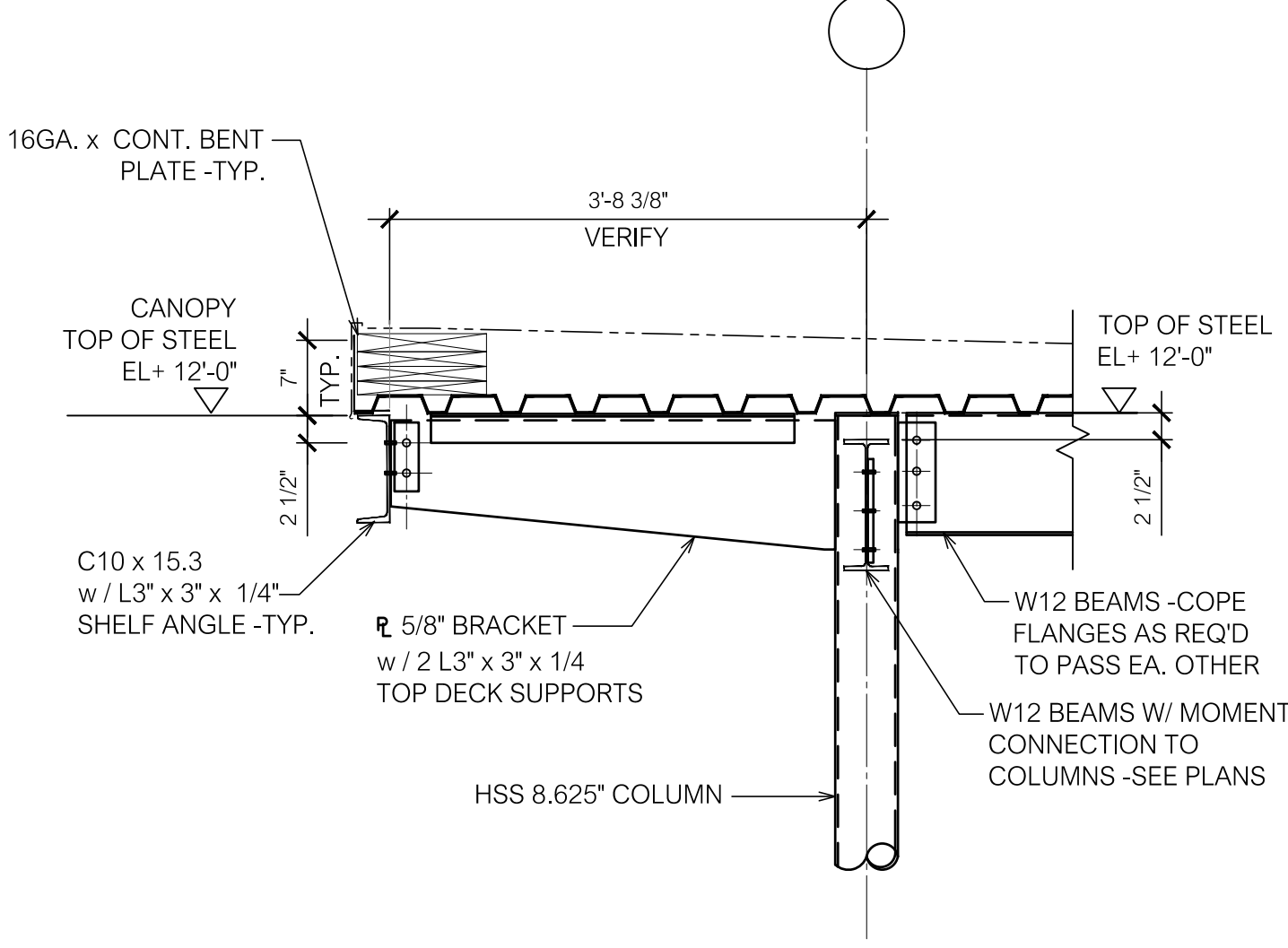
SECTION 9
3/4" = 1'-0" S402



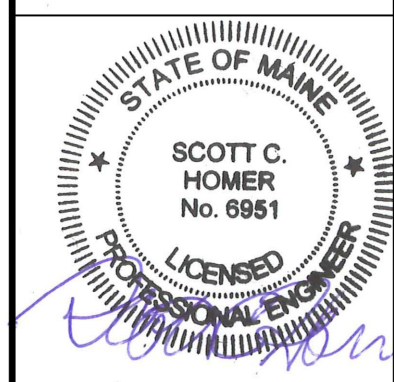
SECTION 10
3/4" = 1'-0" S402



SECTION 11
3/4" = 1'-0" S402



SECTION 12
3/4" = 1'-0" S402



MISC. DETAILS

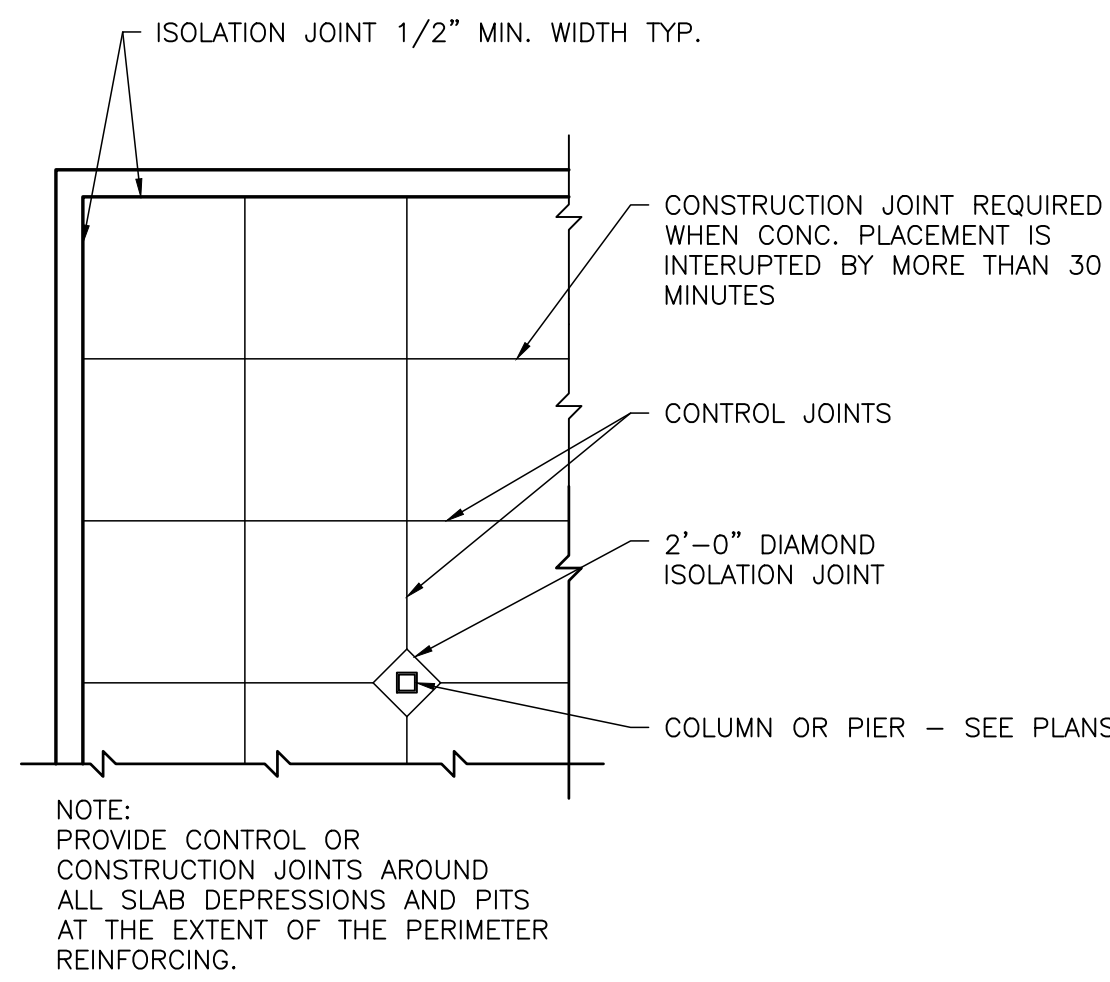
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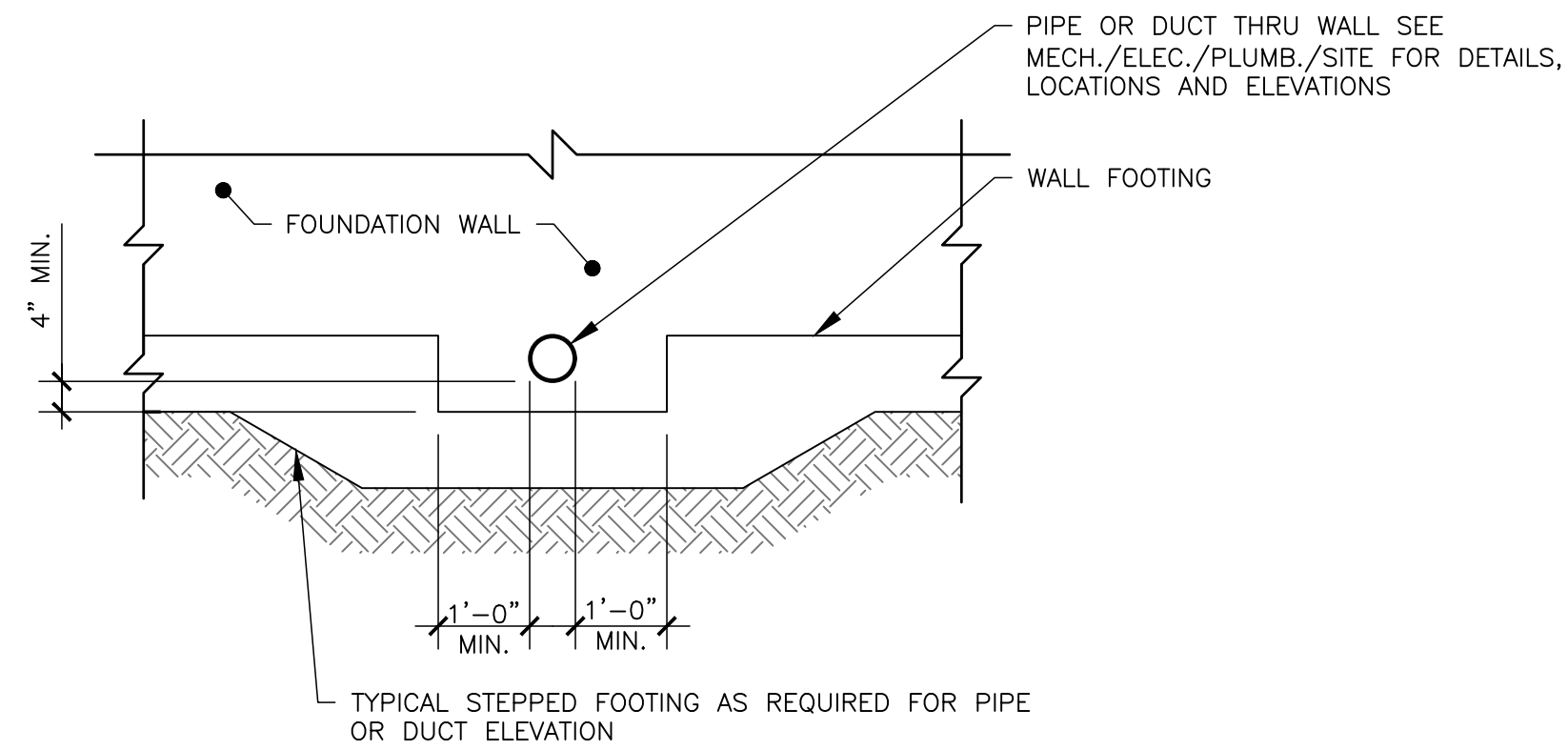
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DATE:
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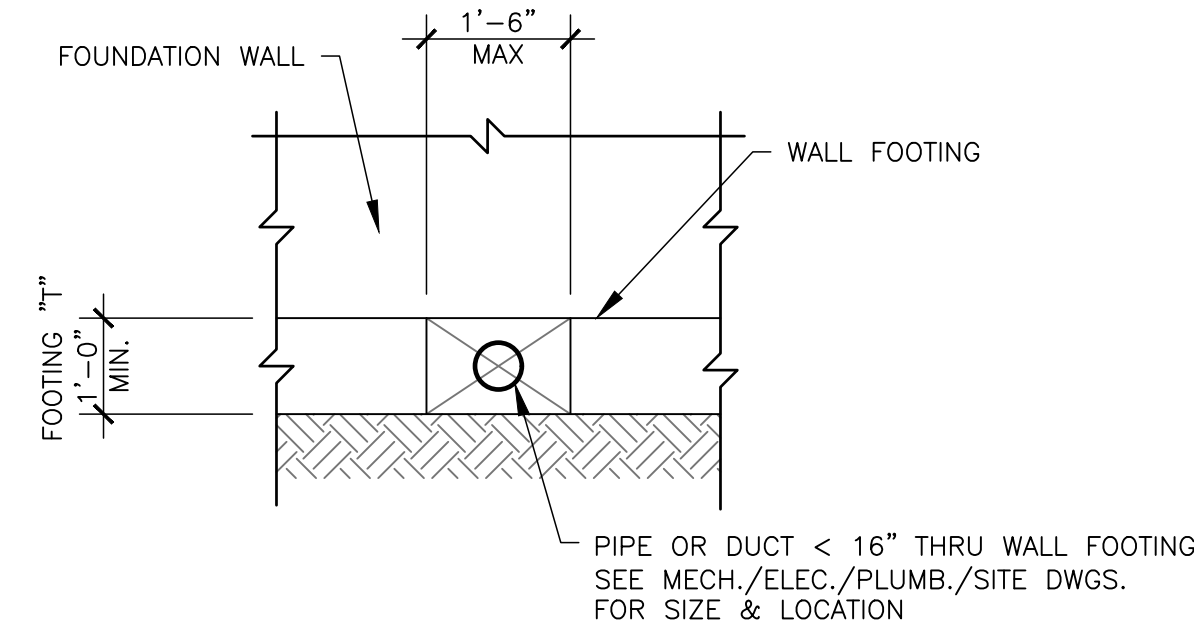
S404



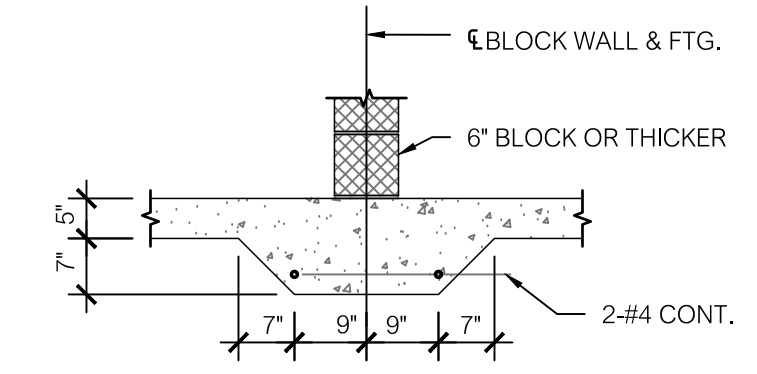
TYPICAL SLAB ON GRADE. JOINT LAYOUT
N.T.S. 1 S500



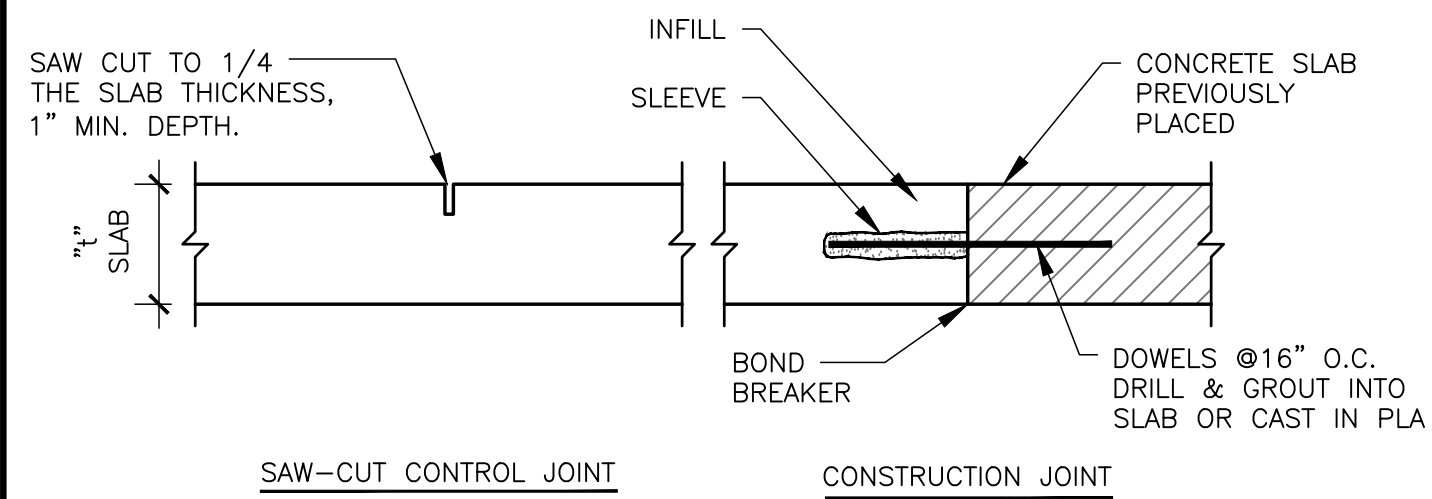
TYPICAL DROPPED FOOTING FOR PIPES OR DUCTS PASSING THRU FOUND. WALLS
N.T.S. 2 S500



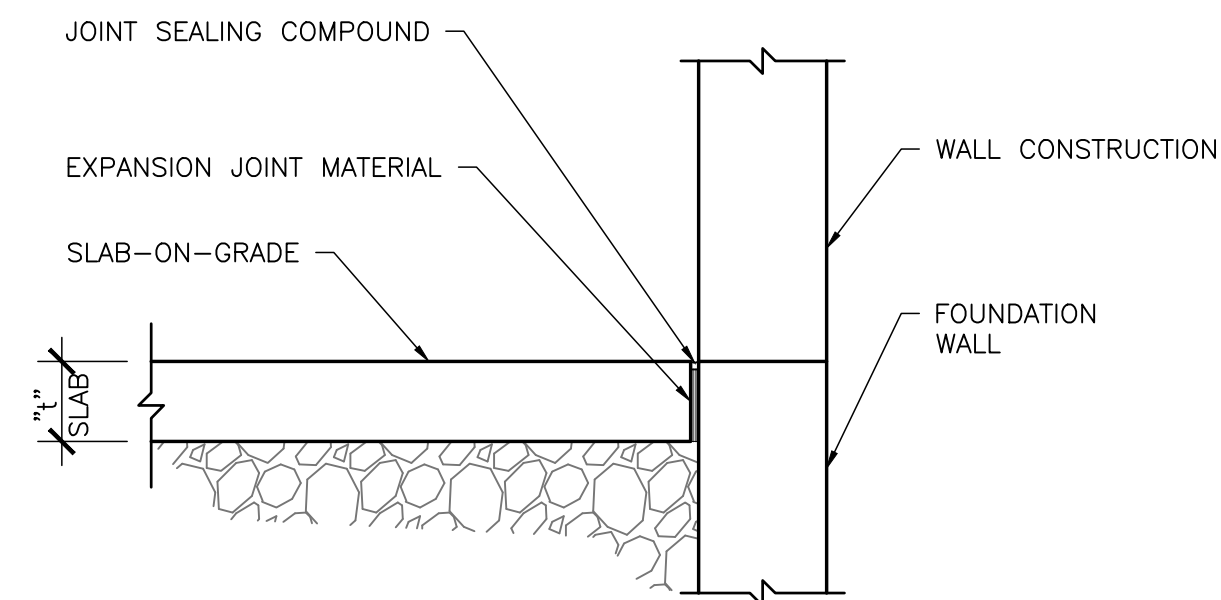
TYP. DETAIL FOR PIPES OR DUCTS PASSING THRU WALL FOOTINGS.
N.T.S. 3 S500



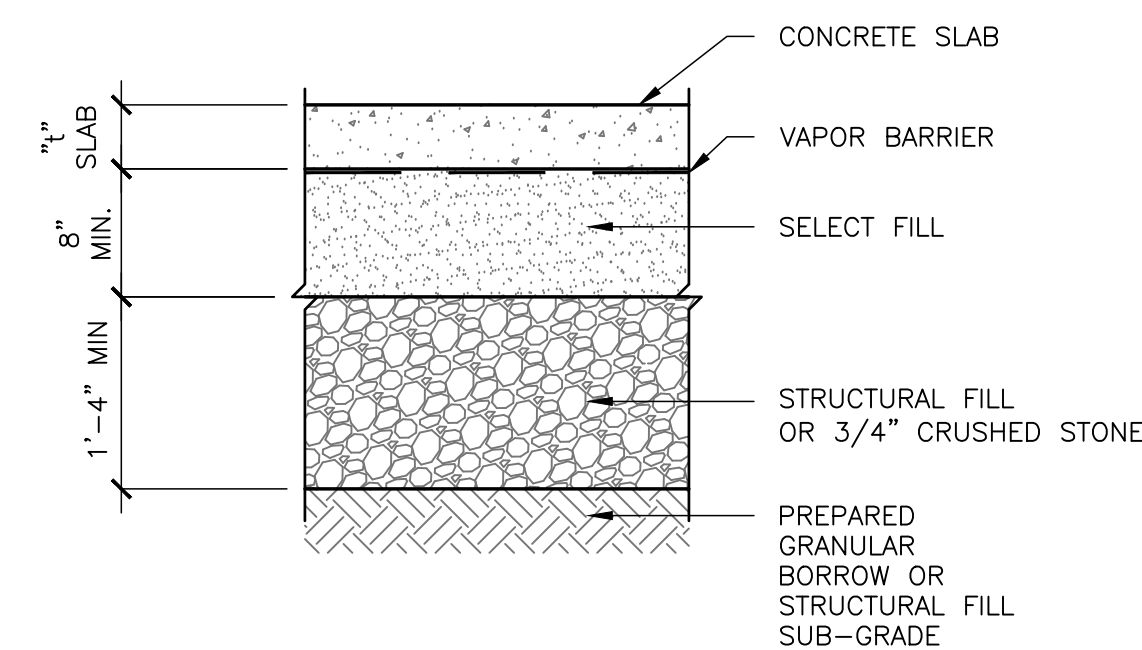
TYP. THICKENED SLAB-ON-GRADE UNDER BLOCK PARTITION WALL
N.T.S. 4 S500



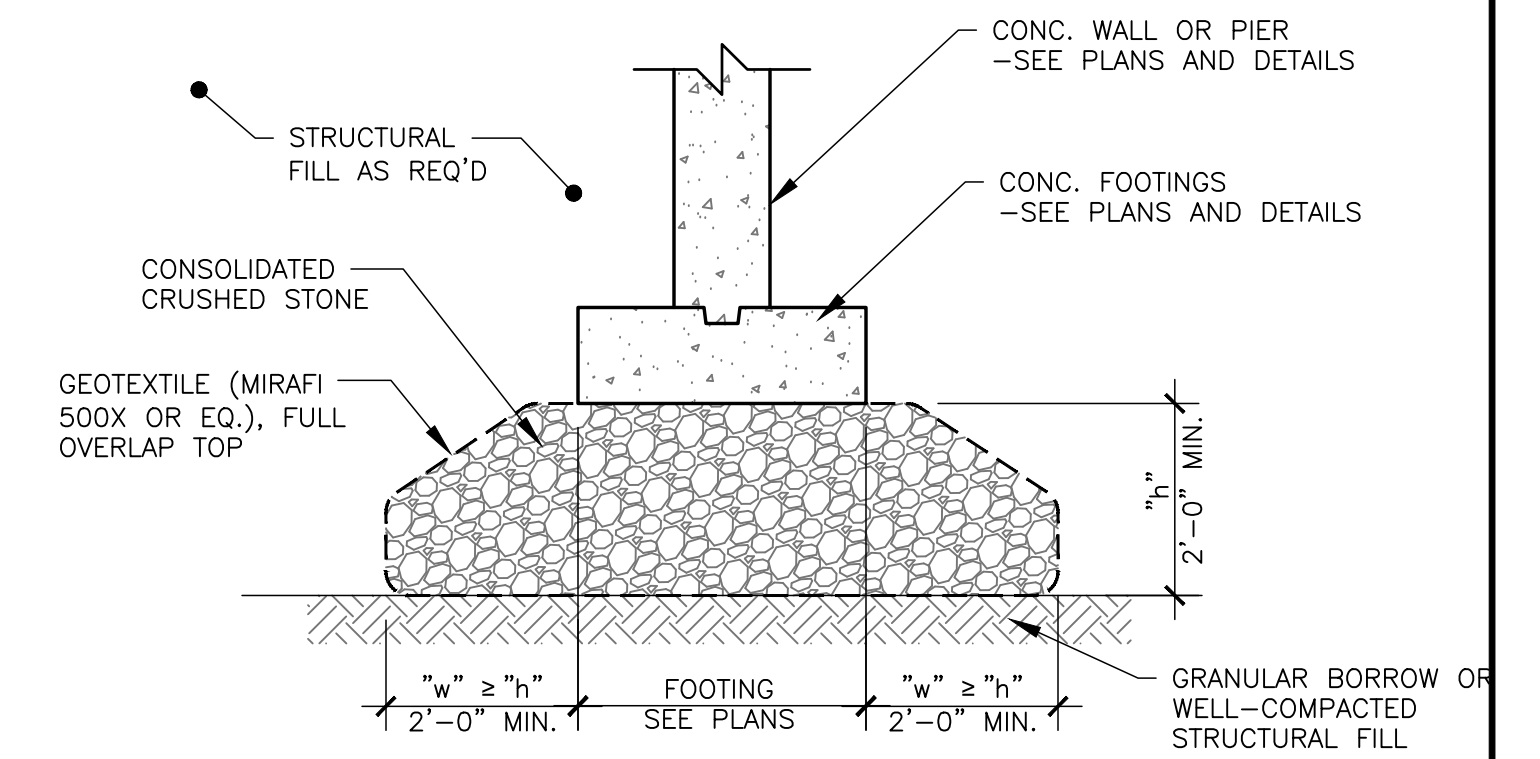
SLAB-ON-GRADE JOINT DETAILS
N.T.S. 5 S500



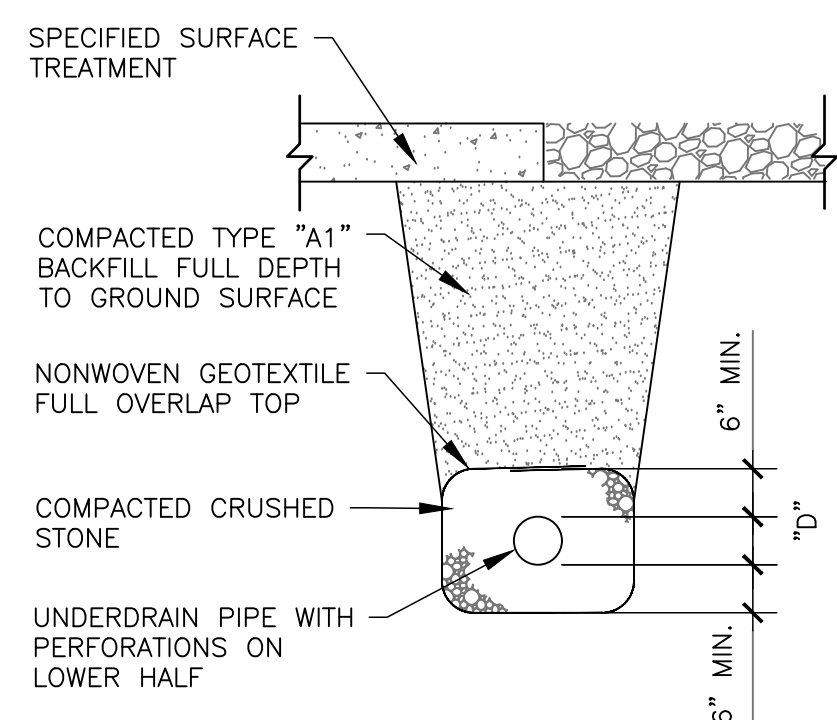
SLAB-ON-GRADE ISOLATION EXPANSION JOINT DETAIL
N.T.S. 6 S500



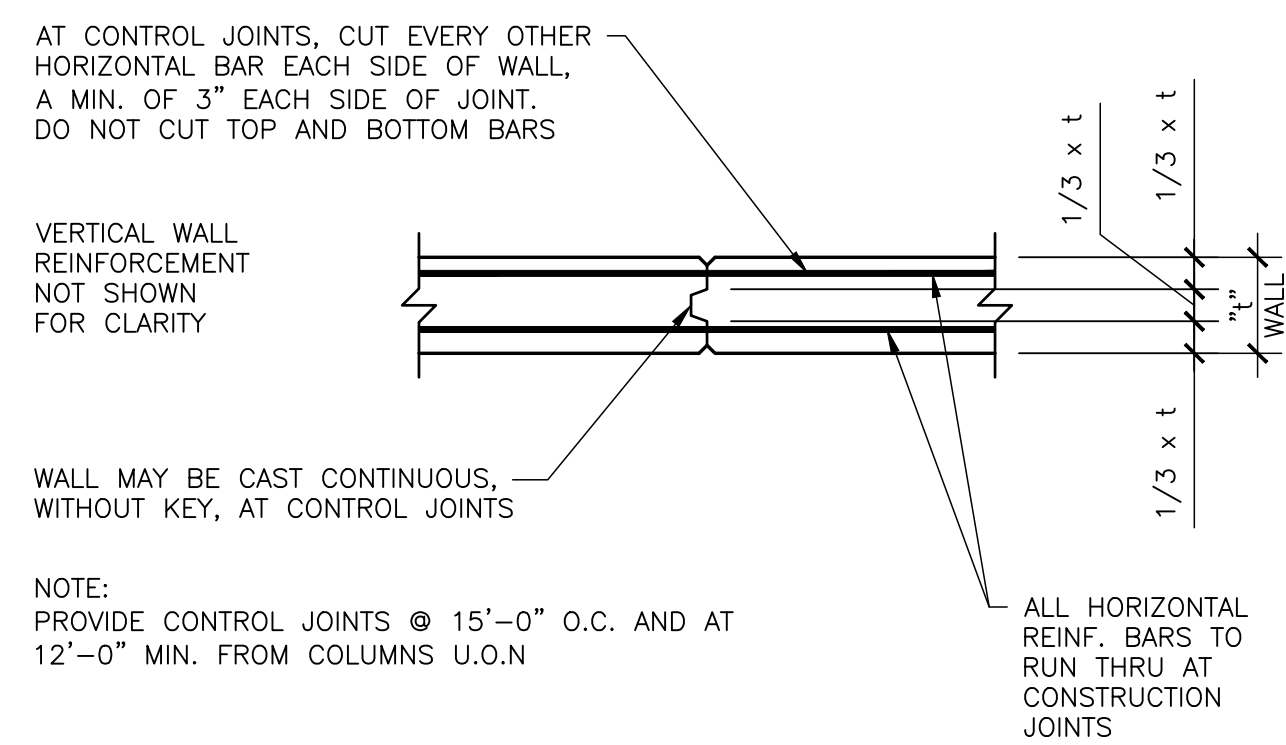
TYP. GRAVEL BASE AT SLAB-ON-GRADE
N.T.S. 7 S500



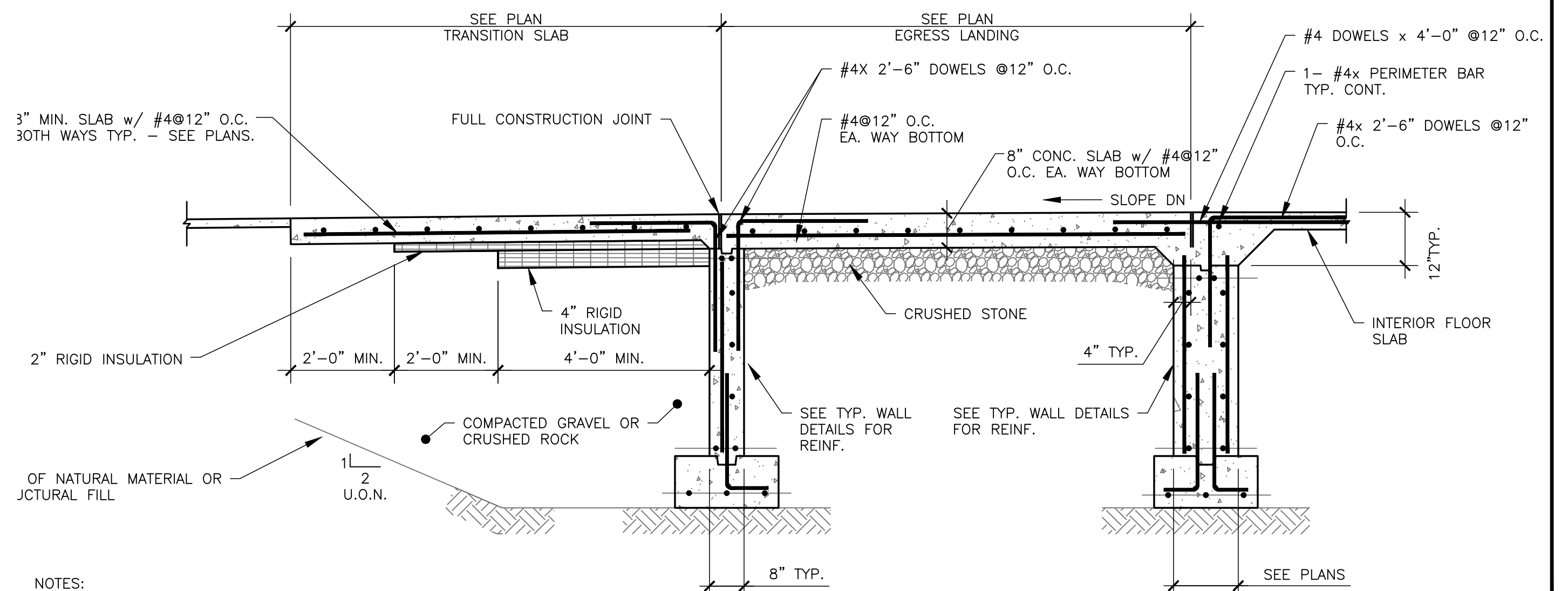
TYP. BEARING DETAIL FOR FOOTINGS
N.T.S. 8 S500



TYPICAL UNDERDRAIN DETAIL
N.T.S. 9 S500

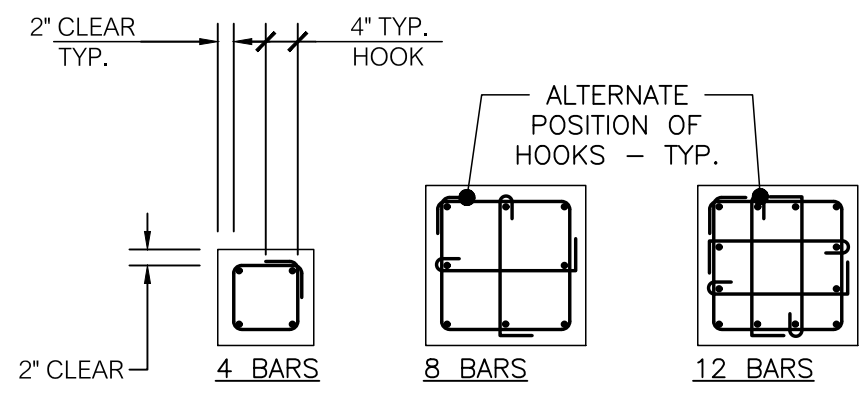


TYPICAL WALL CONTROL OR CONSTRUCTION JOINT DETAIL
N.T.S. 10 S500

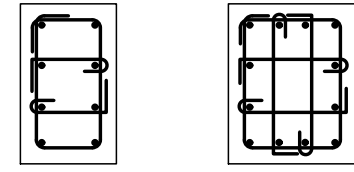


- NOTES:
1. FROST TRANSITION SLAB WIDTH TO MATCH ENTRANCE SLAB (U.N.O.)
2. AT ENTRANCES WITH PAVING MATERIAL, LOWER ELEVATION OF STRUCTURAL SLAB AND TRANSITION SLAB TO ACCOMMODATE PAVING MATERIAL ABOVE

TYP. DETAILS AT CONC. EGRESS LANDING
N.T.S. 11 S500



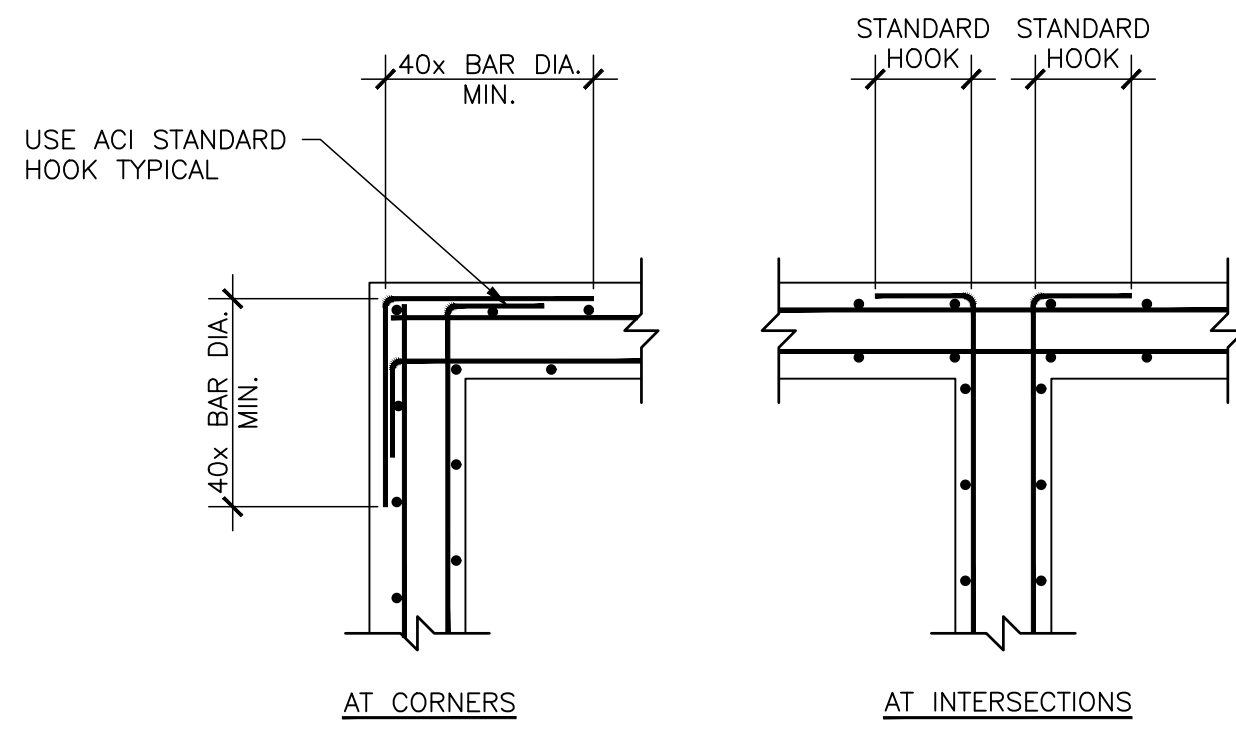
SQUARE COL. PIERS



RECTANGULAR COL. PIERS

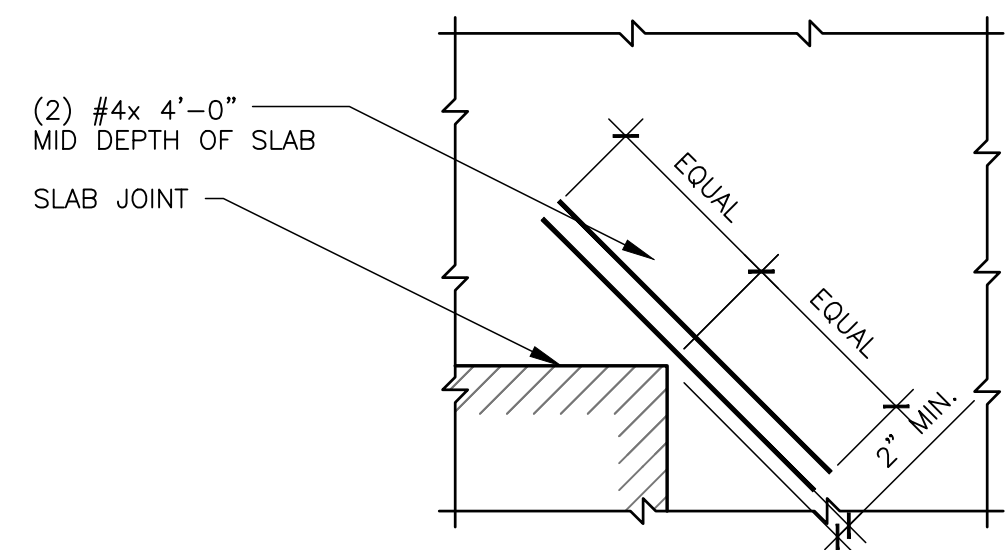
TYPICAL COLUMN PIER CROSS-SECTION DETAILS
N.T.S.

1
S501



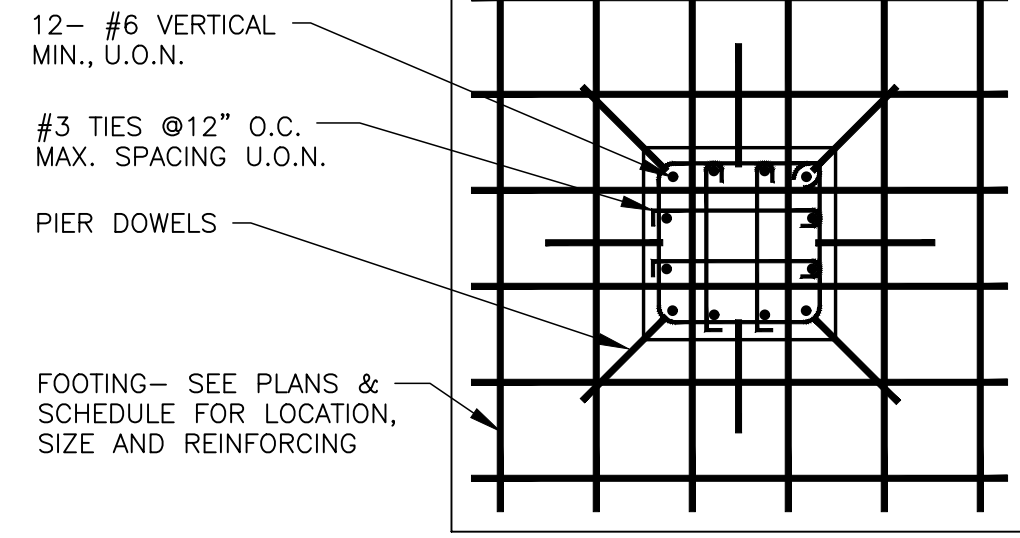
TYP. HORIZ. REINF. AT CONC. WALL CORNERS & INTERSECTIONS
N.T.S.

4
S501

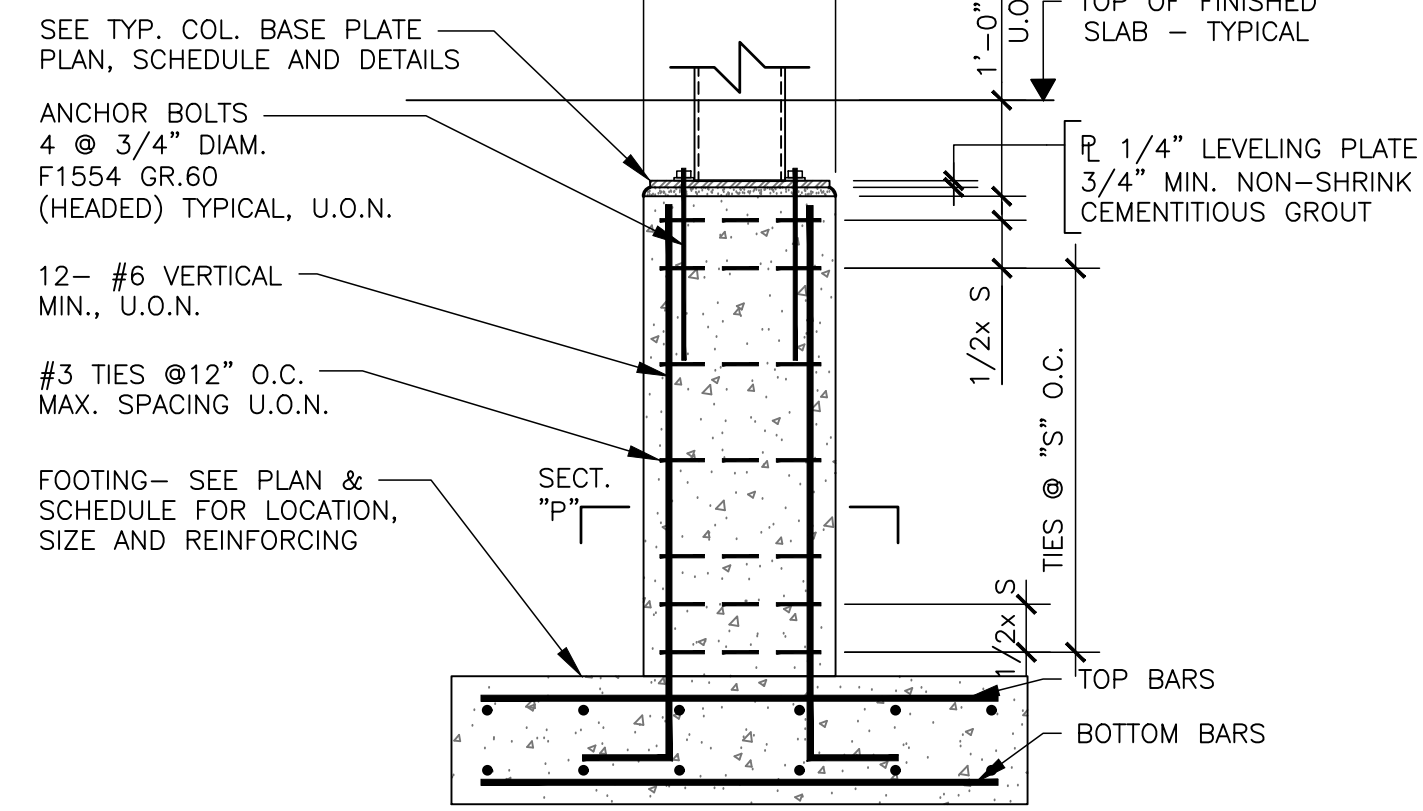


TYP. ADDED SLAB REINF. REENTRANT CORNERS
N.T.S.

7
S501

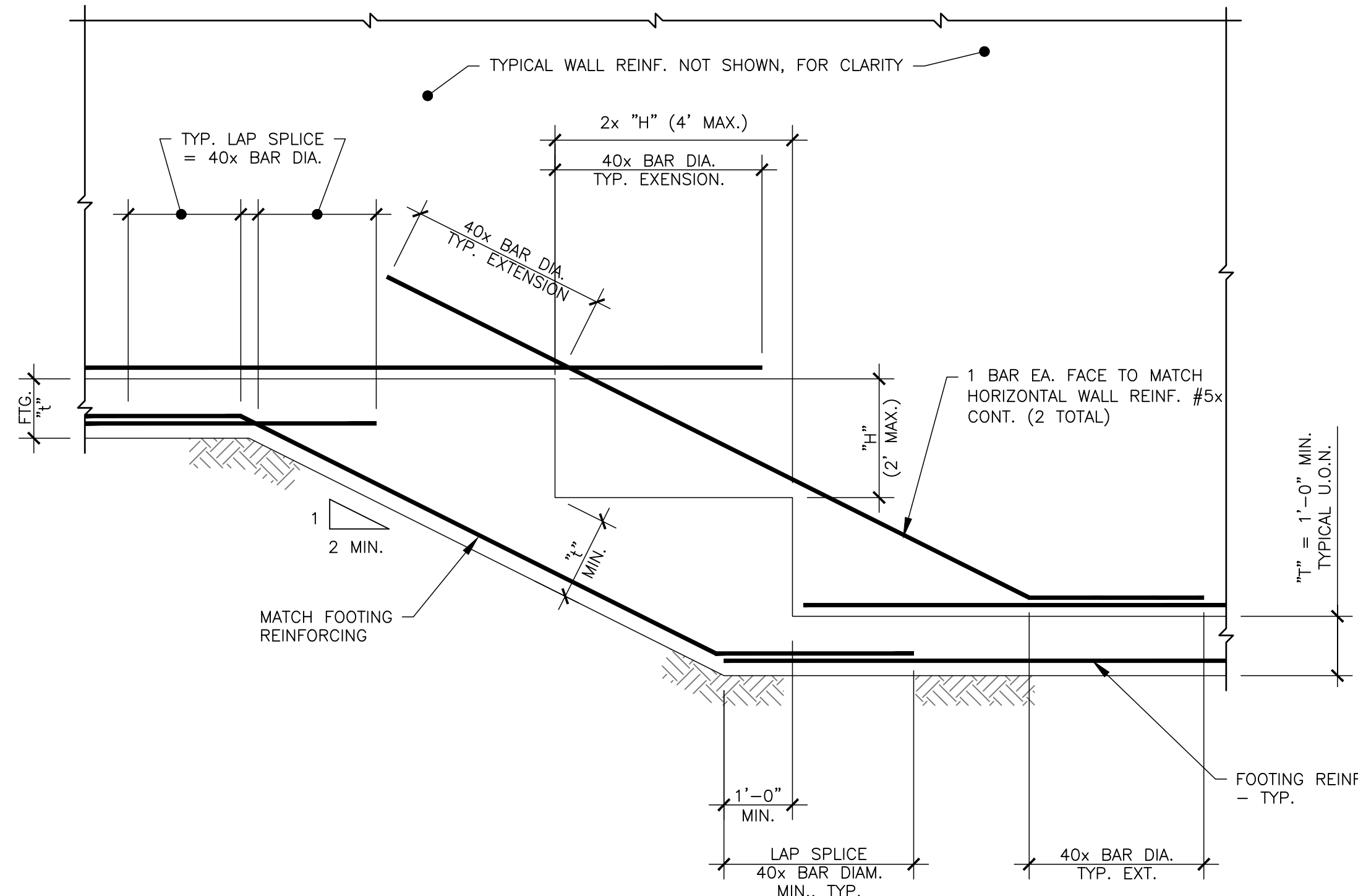


SECTION "P"



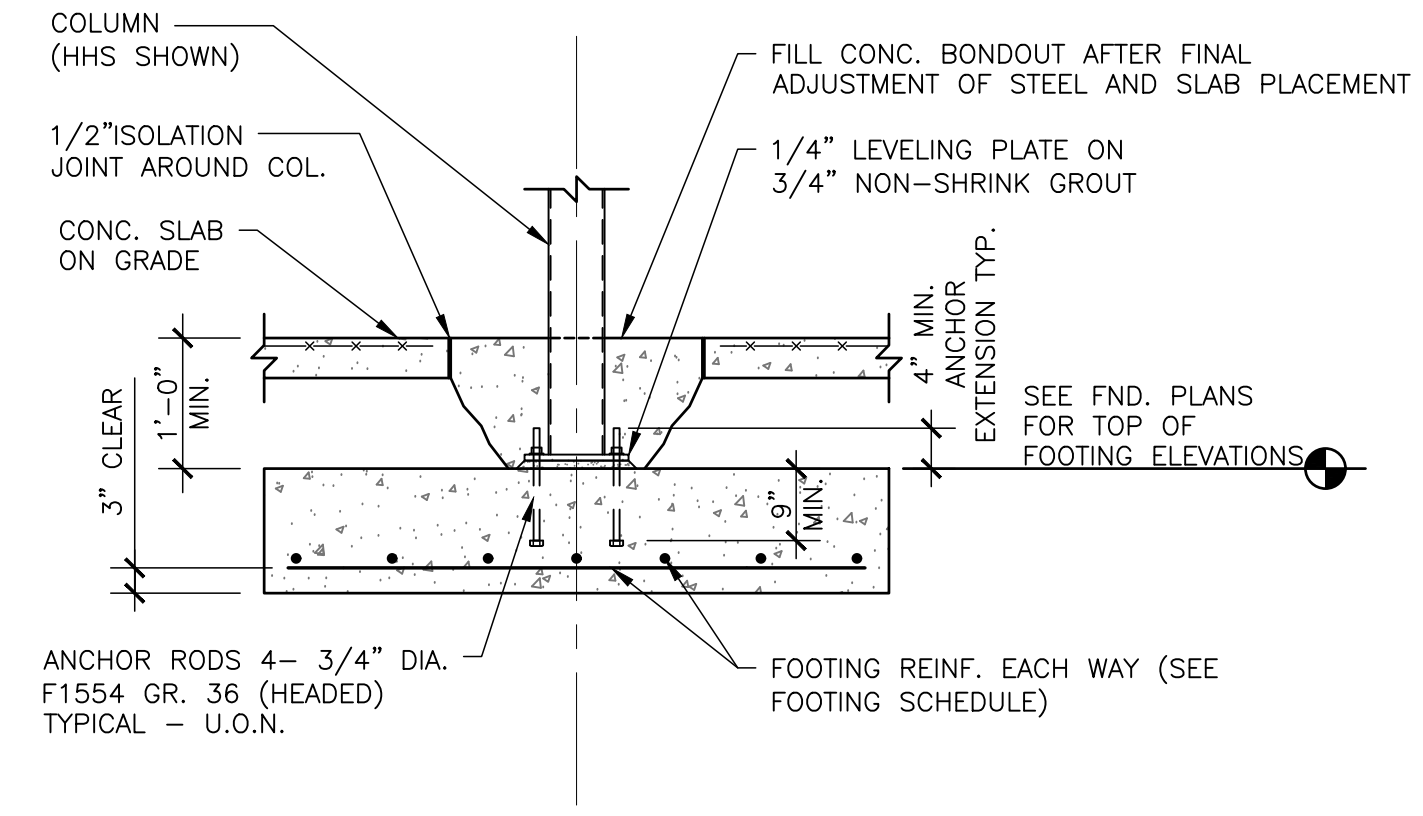
TYP. DETAIL AT STEEL COLUMN ON CONCRETE PIER & FOOTING
N.T.S.

2
S501



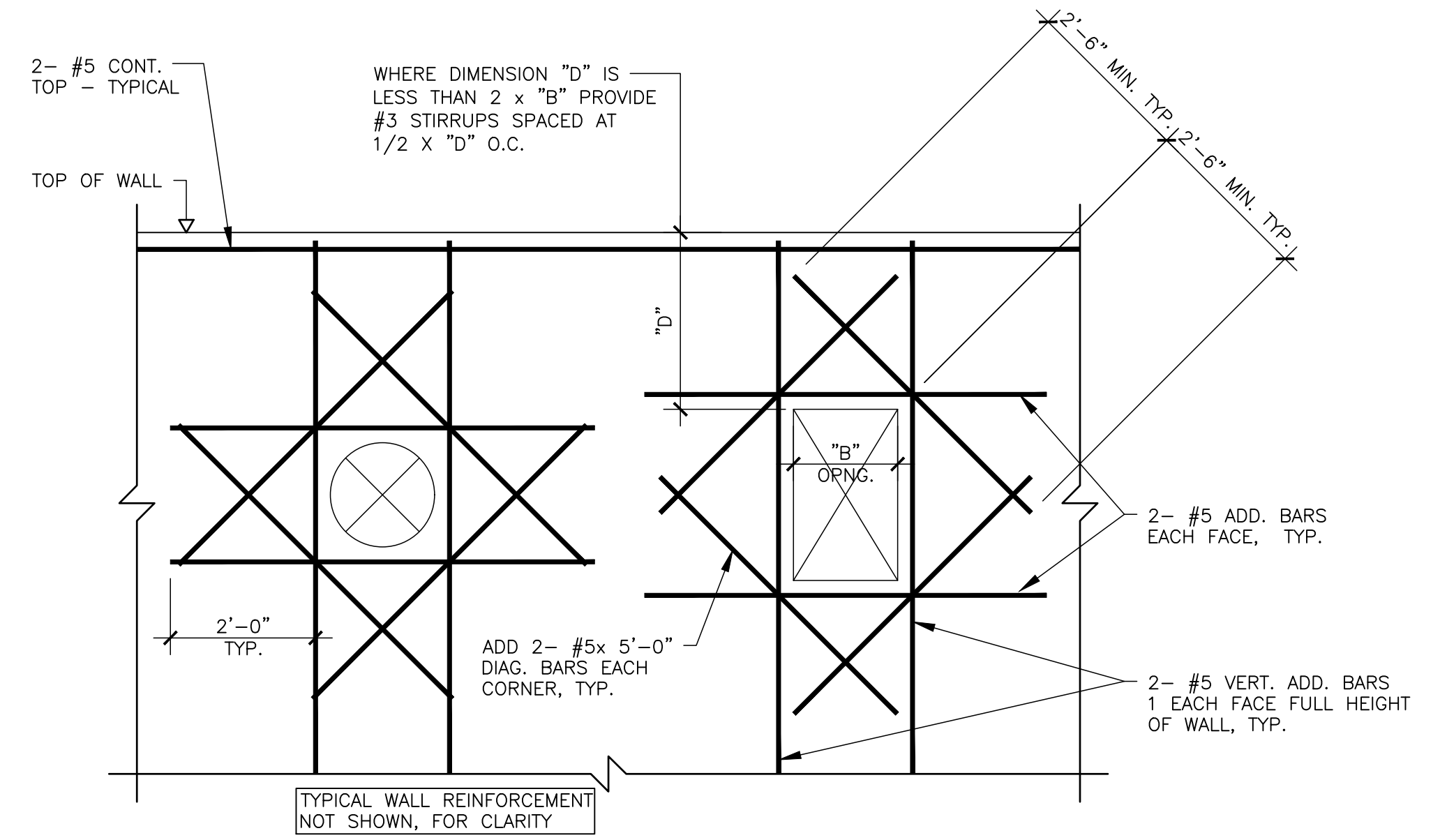
TYPICAL STEPPED FOOTING DETAIL
N.T.S.

5
S501



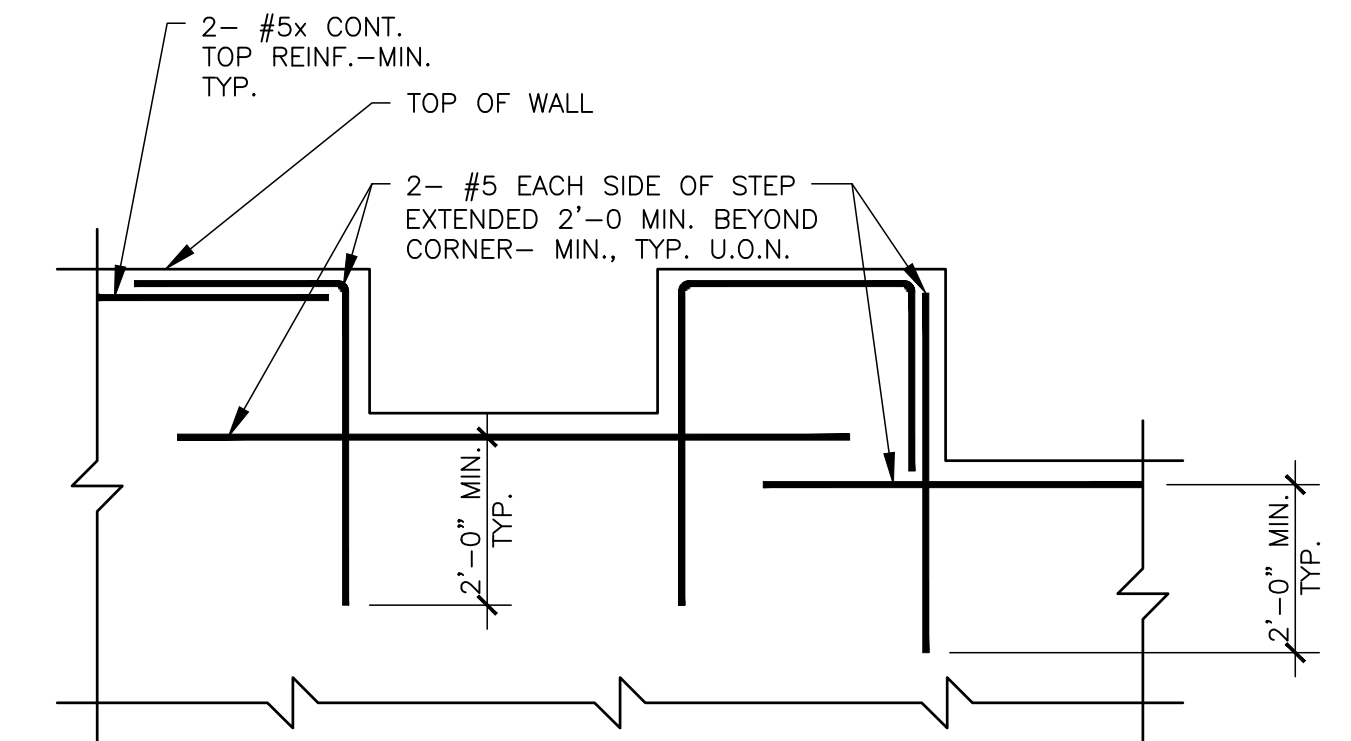
TYP. INTERIOR COLUMN FOOTING DETAIL
N.T.S.

3
S501



TYP. ADDED REINFORCEMENT FOR OPENINGS IN CONC. WALLS
N.T.S.

6
S501

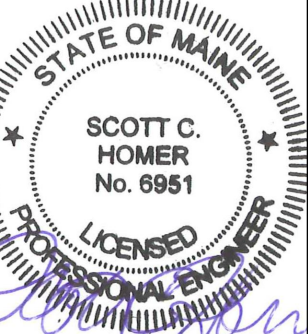


TYPICAL COLUMN PIER CROSS-SECTION DETAILS
N.T.S.

8
S501



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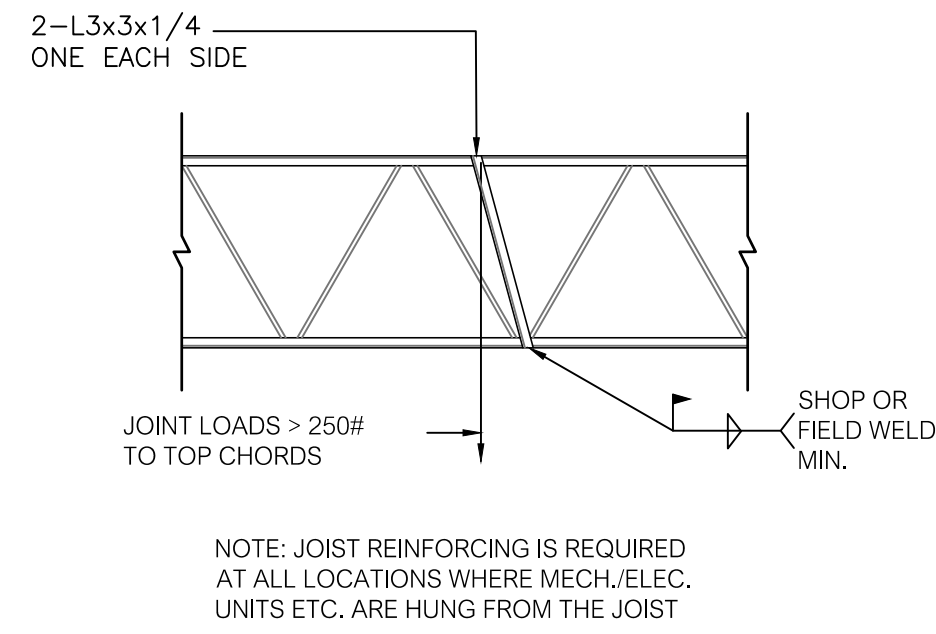
TYPICAL DETAILS

PROJ. NUMBER:	DATE	DESCRIPTION
2020115		

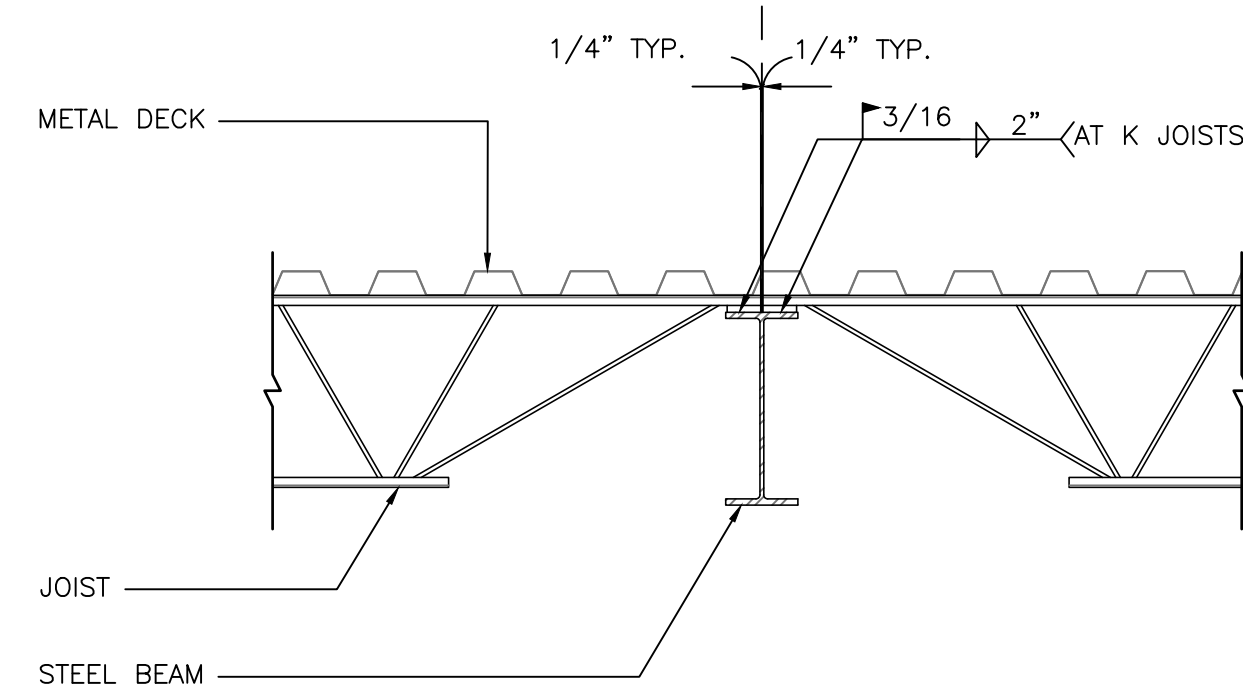
CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME

DATE:
MAY 12, 2021

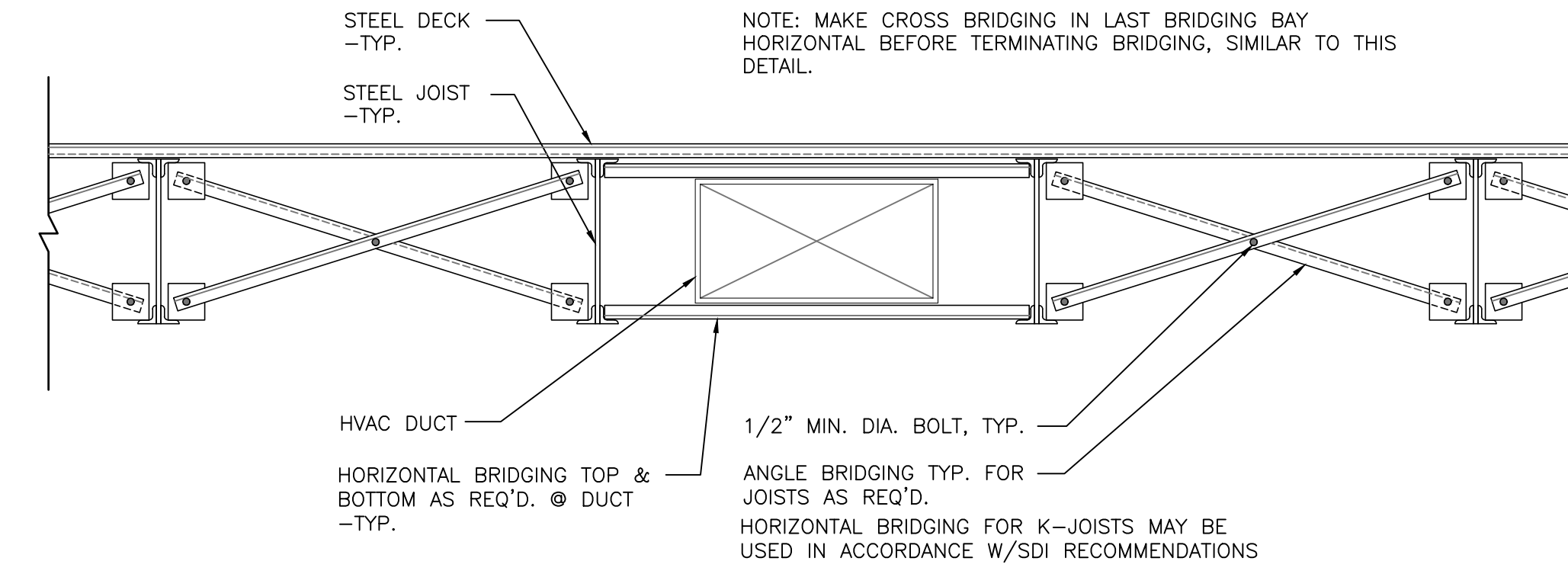
S501



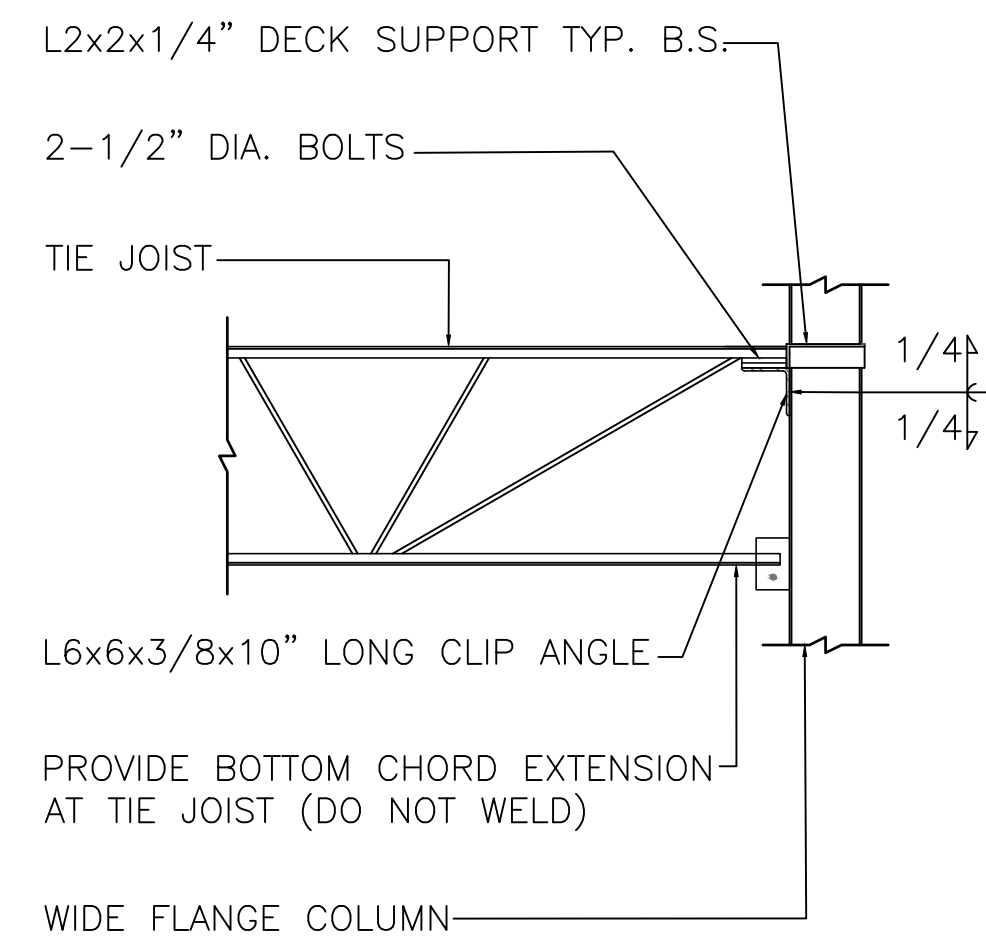
TYP. JOIST REINFORCING DETAIL 1
N.T.S. S502



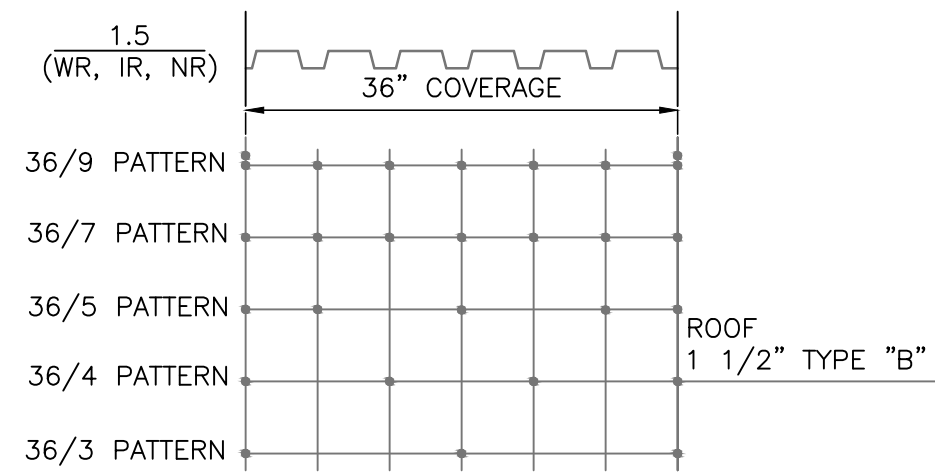
TYP. JOIST BEARING ON BEAM 2
N.T.S. S502



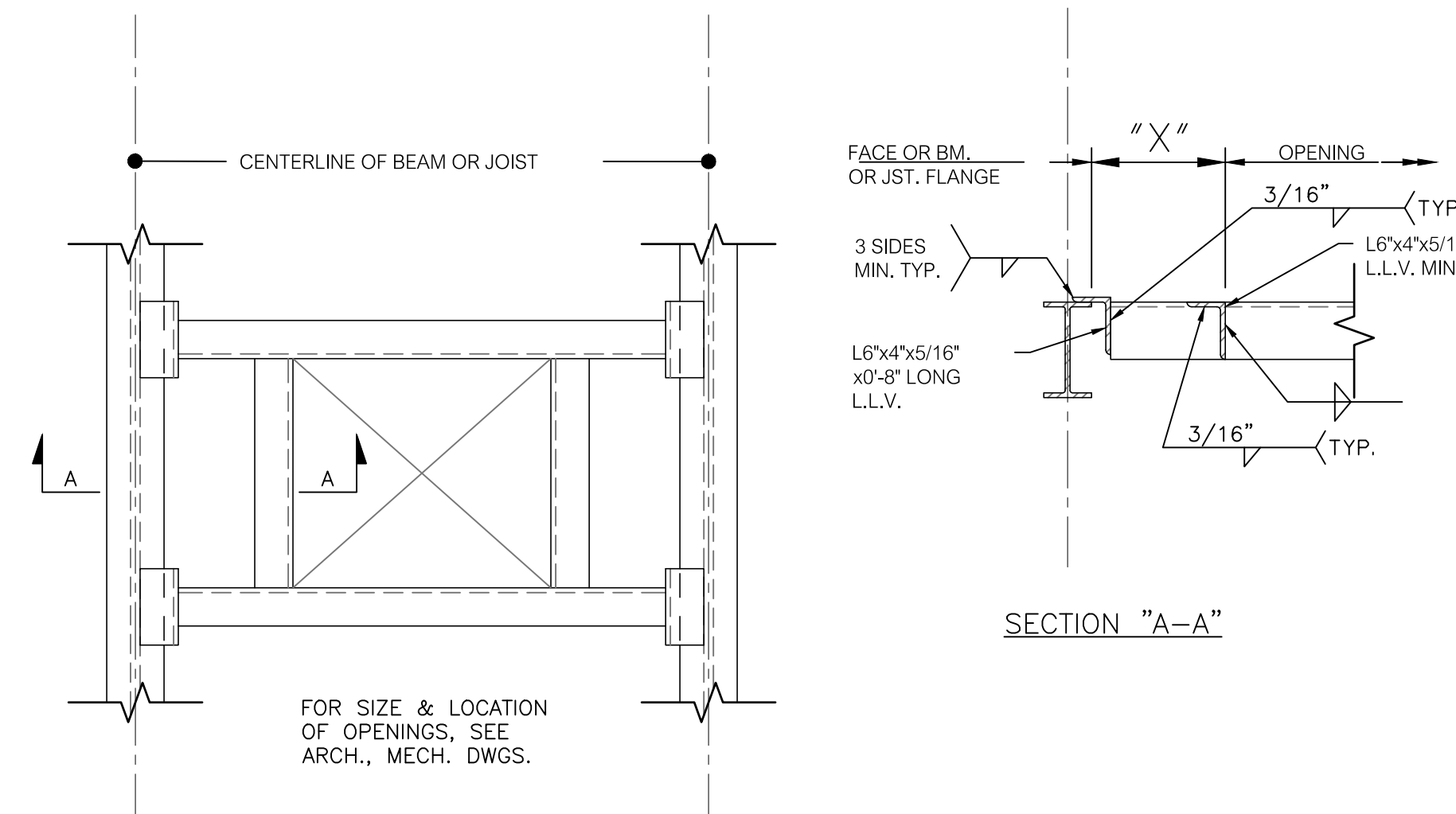
TYPICAL JOIST BRIDGING @ HVAC DUCT 3
N.T.S. S502



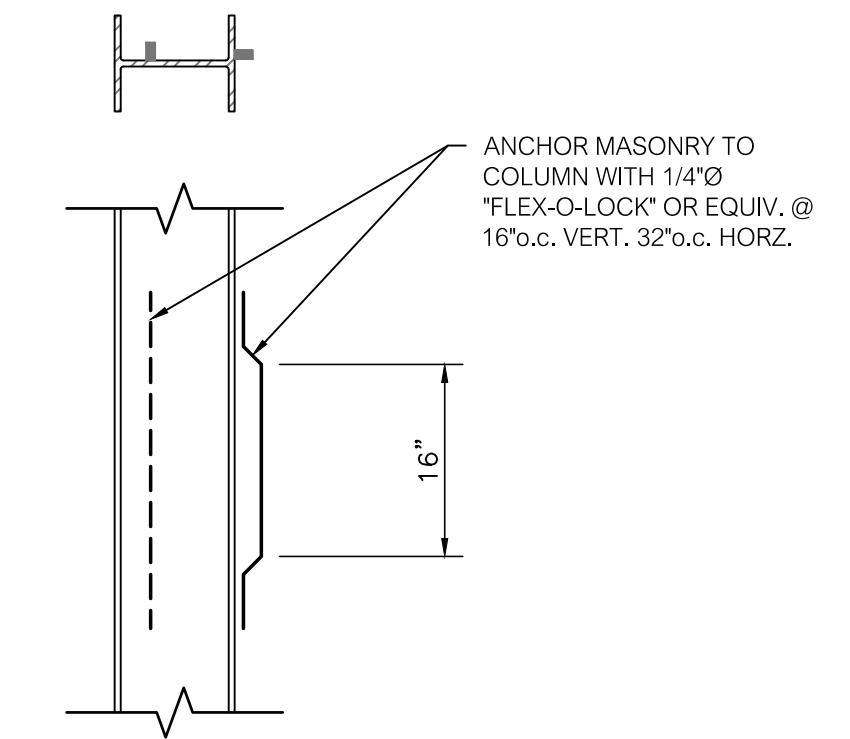
TYP. TIE JOIST BEARING 4
N.T.S. S502



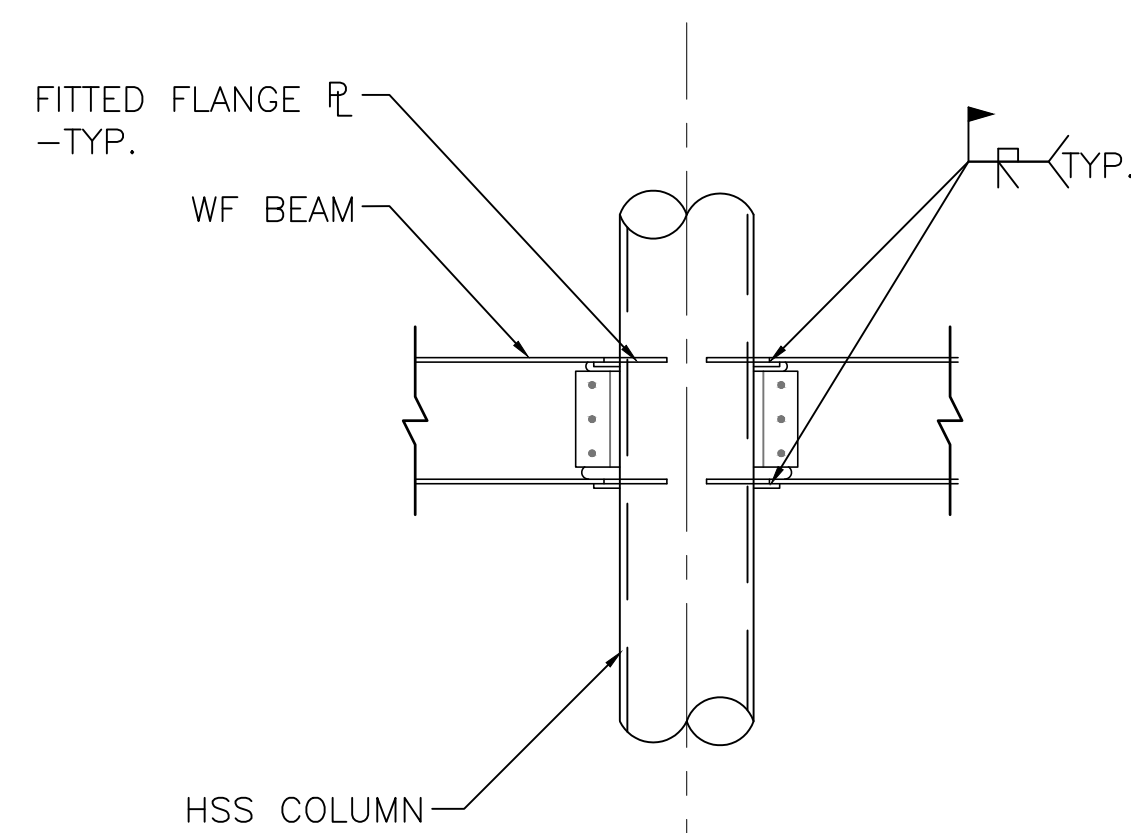
TYPICAL DECK FASTENER LAYOUT 5
N.T.S. S502



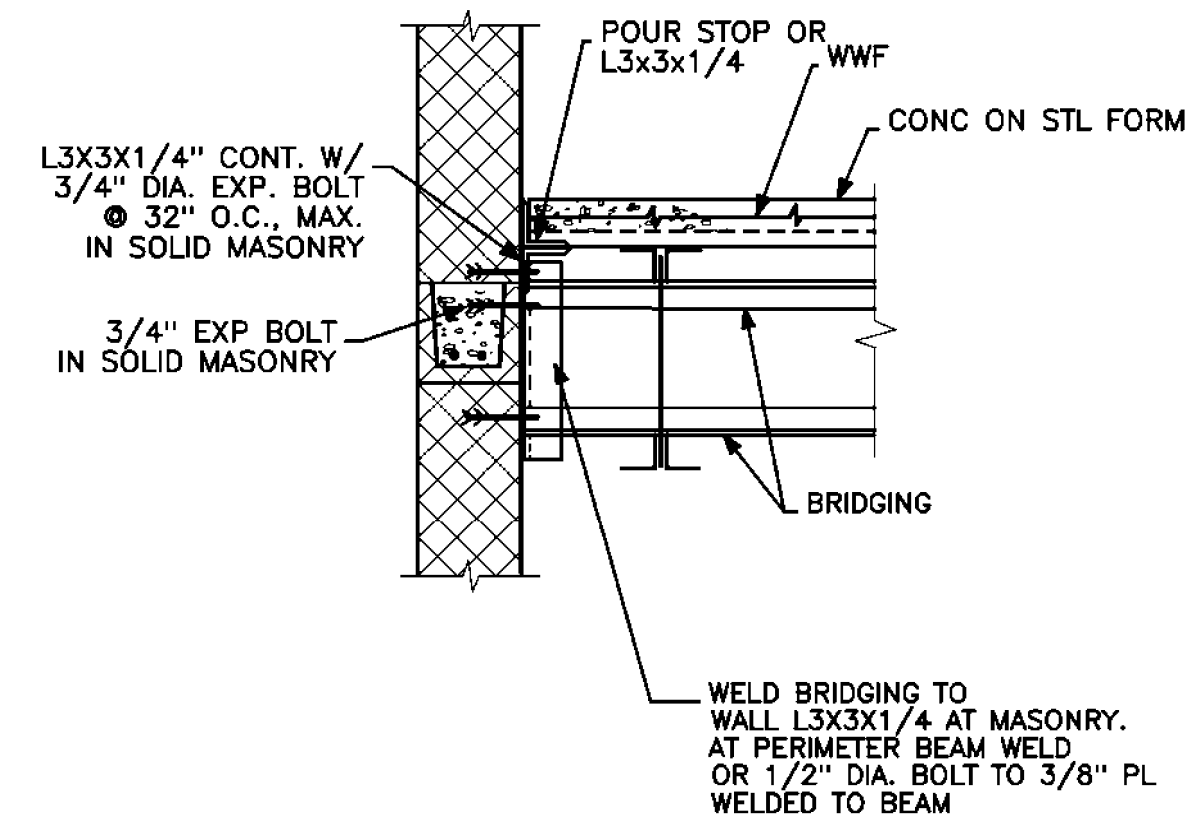
TYP. ROOF FRAME OPENING 6
N.T.S. S502



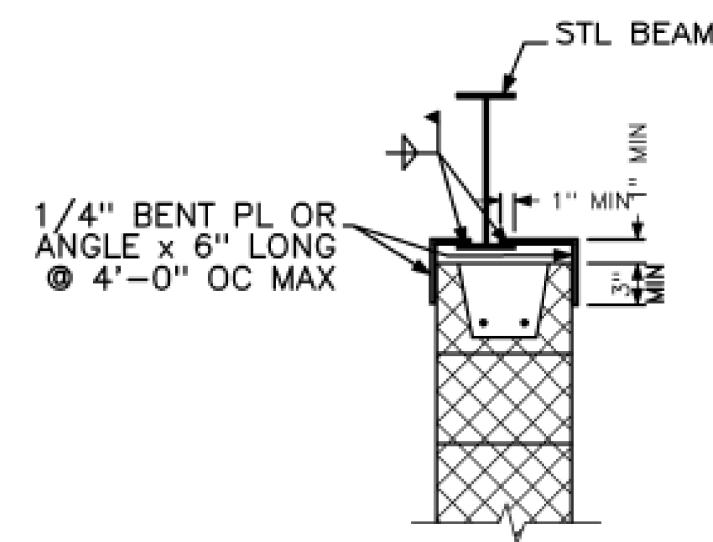
MASONRY ANCHOR INTO WIDE-FLANGE COLUMN 7
N.T.S. S502



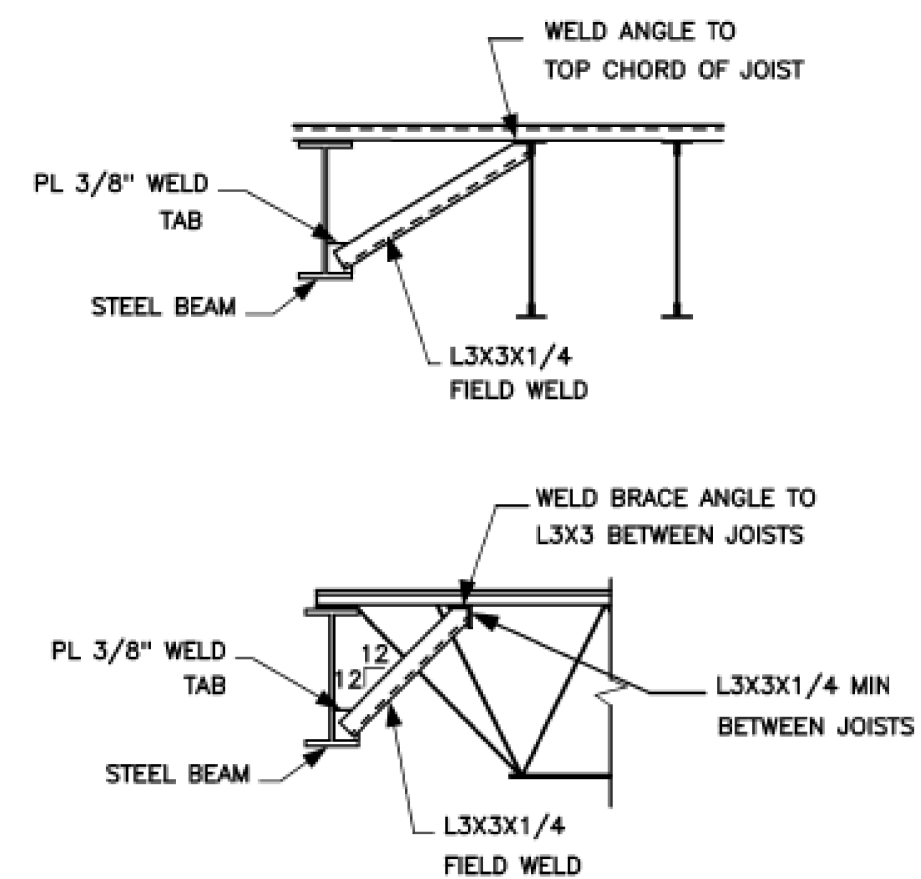
TYPICAL WELDED MOMENT CONNECTION 8
N.T.S. S502



TYP. FLOOR JOIST PARALLEL TO WALL 1
N.T.S. S503



TOP OF PARTITION SUPPORT PARALLEL TO BEAM 4
N.T.S. S503



- NOTES:
1. TYPICAL AT ALL PERIMETER BEAMS AT ROOF.
2. PROVIDE BEAM BRACE AT 8'-0" O.C.

TYPICAL BEAM BRACE DETAIL 5
N.T.S. S503

TOP OF PARTITION SUPPORT PARALLEL TO JOIST OR BEAM 2
N.T.S. S503

DETAIL AT CHANGE IN DECK OTHER THAN 90° 3
N.T.S. S503

UNLESS OTHERWISE NOTED
MIN. EDGE DISTANCE AT ANCHOR BOLTS 6
N.T.S. S503

TYPICAL DETAILS

PROJ. NUMBER:	DRAWN BY:	DATE	DESCRIPTION
2020115	EJ		
REV.			

CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME

DATE:
MAY 12, 2021

S503

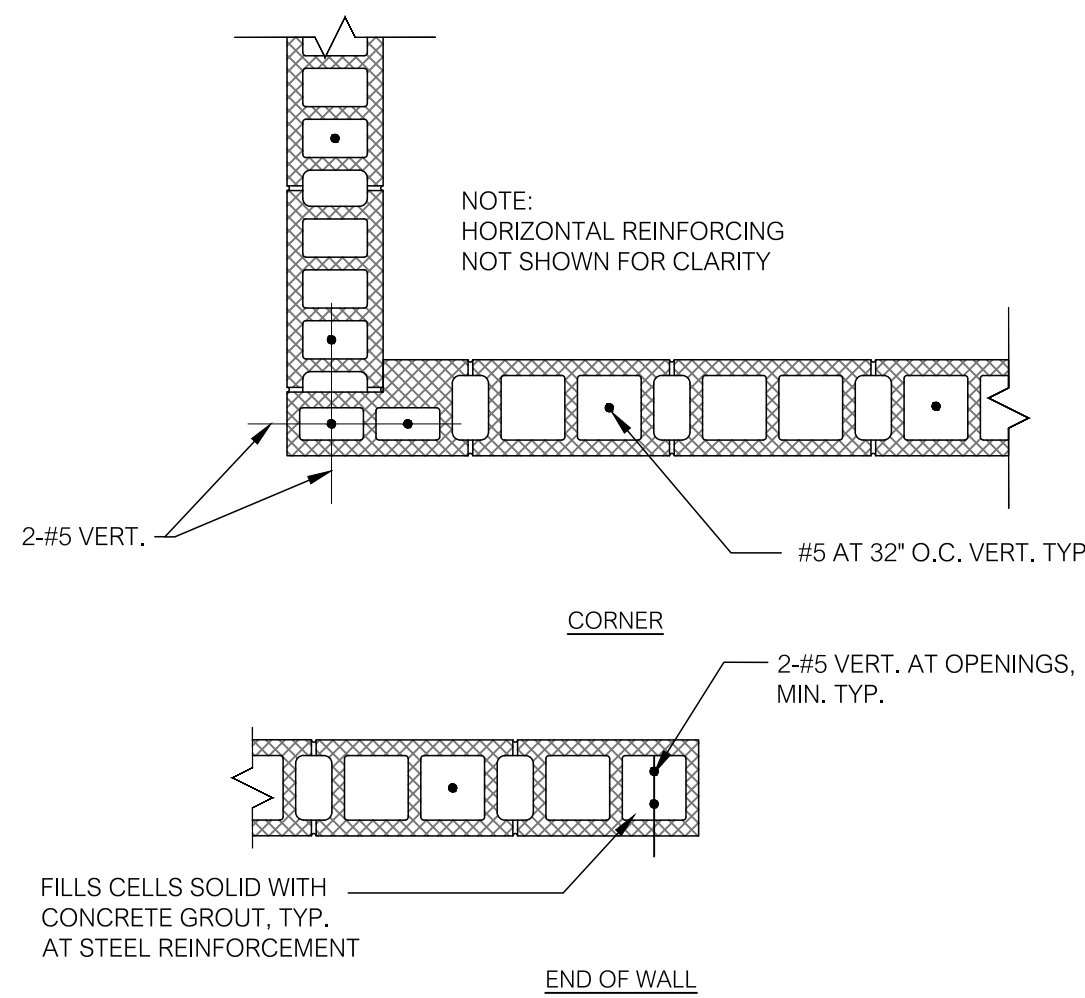
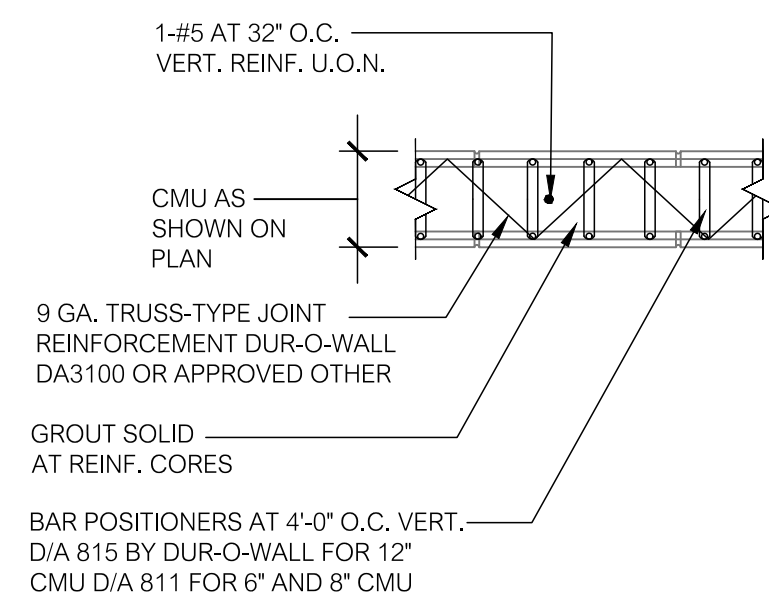
EXTERIOR BRICK LOOSE LINTEL SCHEDULE		
MAX. MASONRY OPENING	SIZE	BEARING
TO 4'-0"	L4 x 3 1/2 x 5/16"	8" MIN.
4'-0" TO 8'-0"	L5 x 3 1/2 x 3/8" LLV	8" MIN.
TO 12'-10"	L5 x 5 x 3/8"	8" MIN.

- NOTES:
 1. LINTELS FOR EXTERIOR MASONRY SHALL BE HOT-DIPPED GALVANIZED.
 2. LINTEL IS SIZED FOR 4" NOMINAL WIDTH OF MASONRY.

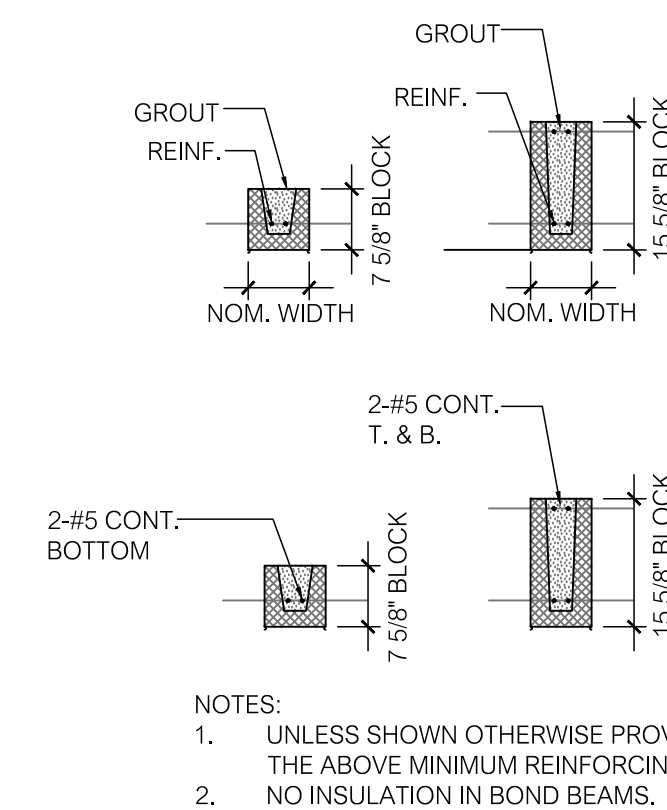
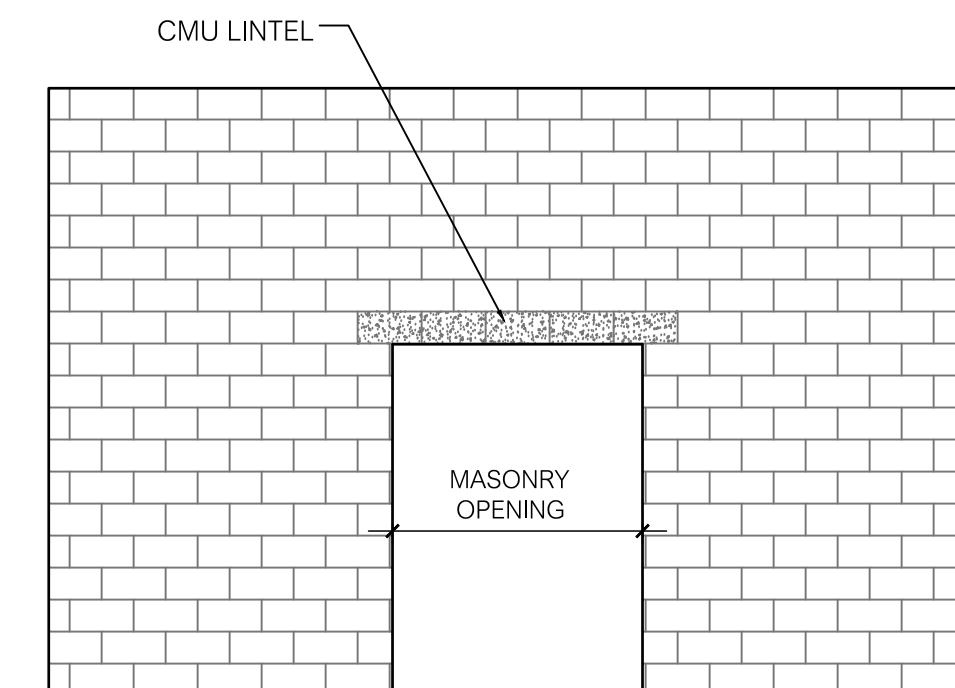
CONCRETE MASONRY LINTEL SCHEDULE		
MAX. MASONRY OPENING	SIZE	BEARING
4'-10" OR LESS	L4 x 3 1/2 x 5/16 (LLV)	8" MIN. ON SGMU
4'-10" TO 7'-0"	L5 x 3 1/2 x 5/16 (LLV)	8" MIN. ON SGMU
7'-0" TO 9'-0"	L6 x 3 1/2 x 3/8 (LLV)	8" MIN. ON SGMU

- NOTES:
 1. ONE ANGLE REQUIRED FOR EVERY 4" OF MASONRY.
 2. MULTIPLE ANGLES SHALL BE WELDED BACK TO BACK.
 3. "SGMU" INDICATES SOLID GROUTED MASONRY UNIT.

- NOTES:
 1. LOCATE REINFORCING AT ALL WALL ENDS AND CORNERS AND AT EACH SIDE OF CONTROL JOINTS AT STEEL COLUMNS.
 2. NO INSULATION IN GROUTED CELLS.
 3. DETAIL APPLIES AT ALL MASONRY WALLS.
 4. SEE ARCHL DETAILS AND OTHER SHEETS FOR ADDITIONAL REINFORCING AT PIERS AND MISC. WALLS.



CONCRETE MASONRY LINTEL SCHEDULE			
NOMINAL BLOCK WIDTH	NOMINAL LINTEL HEIGHT	REINFORCING	MASONRY OPENING
6"	8"	(1)-#6	7'-0" TO 12'-0"
0'-8"	8"	(2)-#5	7'-0" OR LESS
0'-8"	8"	(2)-#5	7'-0" TO 12'-0"
1'-0"	12"	(1)-#5	7'-0" OR LESS
1'-0"	12"	(2)-#5	10'-0" OR LESS



STEEL LINTEL SCHEDULE FOR MASONRY OPENINGS
 N.T.S.

1
S504

TYP. CMU HORIZONTAL REINFORCEMENT PLAN
 N.T.S.

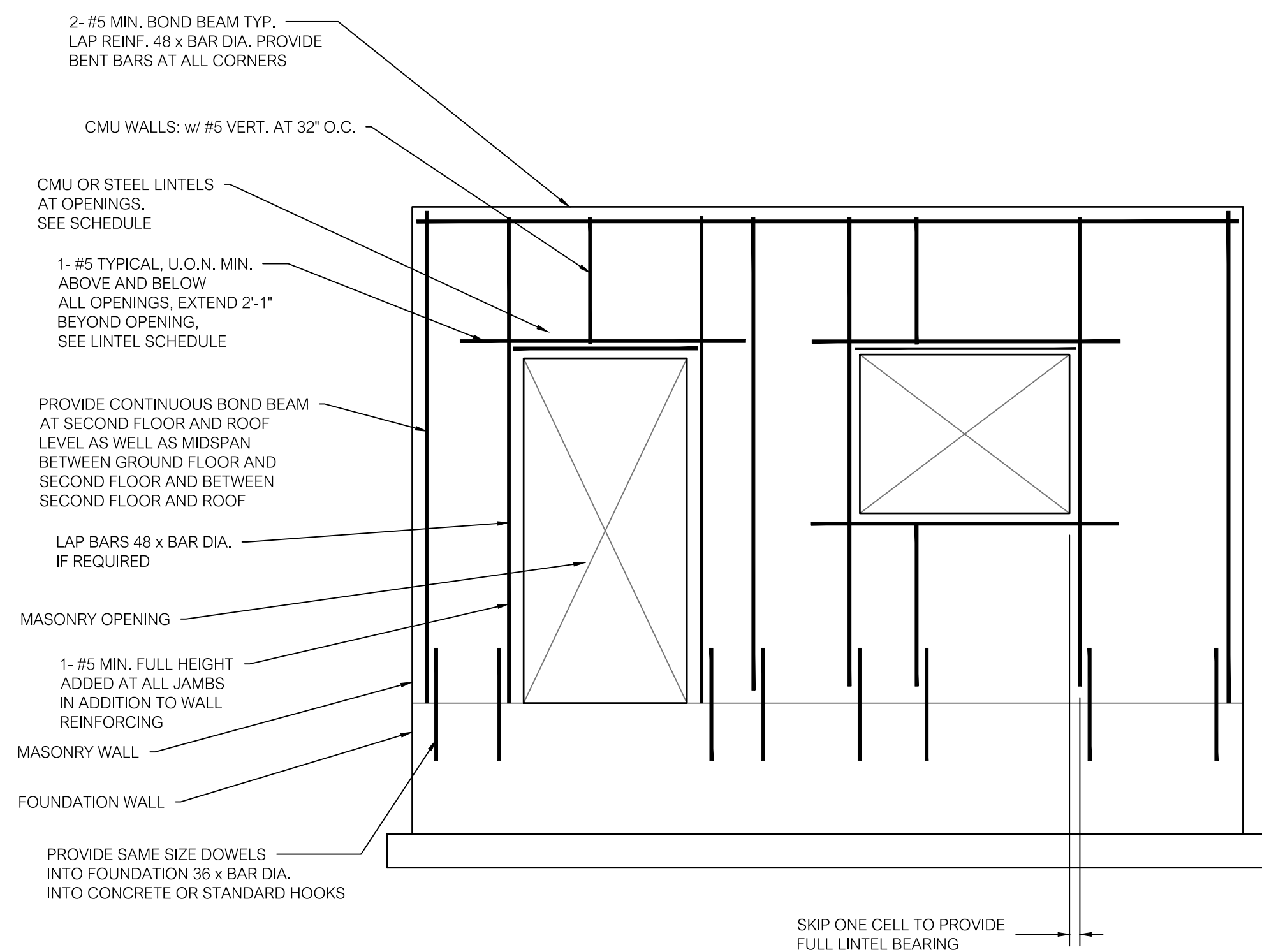
2
S504

TYP. CMU VERTICAL WALL REINFORCEMENT PLAN
 N.T.S.

3
S504

TYPICAL CMU LINTELS FOR MASONRY OPENINGS
 N.T.S.

4
S504

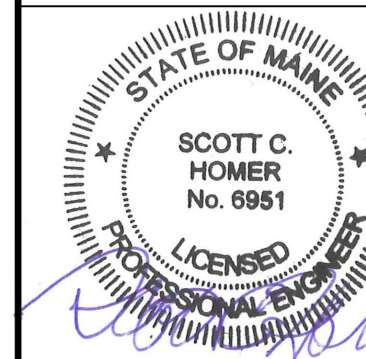


USE CMU LINTELS TYPICALLY, FOR CMU MASONRY WALLS, UNLESS NOTED OTHERWISE. SEE SCHEDULE FOR SIZE AND REINFORCEMENT.

STEEL LINTELS MAY BE USED OVER OPENINGS IN 6" CMU WALLS, OR WHERE INDICATED. SEE PLANS AND SCHEDULES.

TYPICAL CMU WALL REINF. ELEVATION
 N.T.S.

5
S504



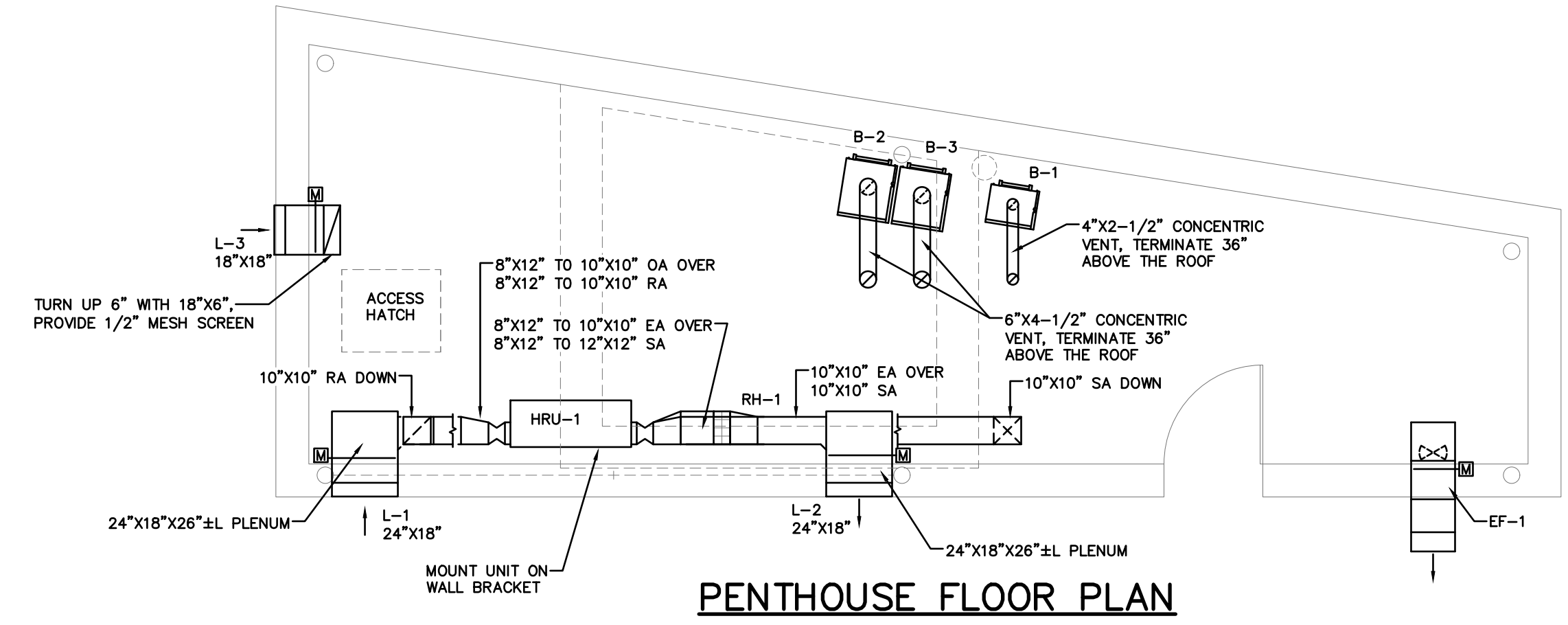
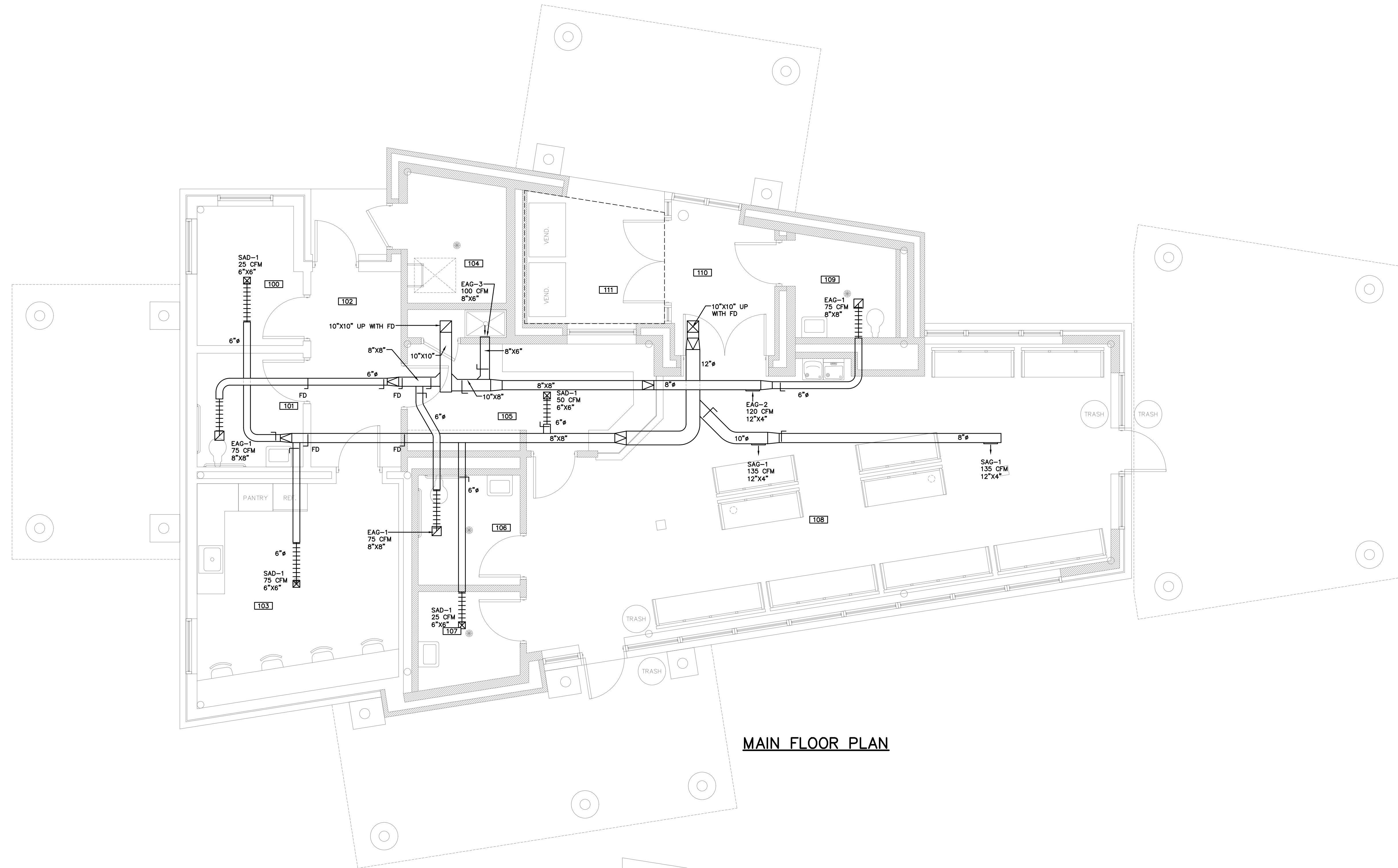
TYPICAL DETAILS

PROJ. NUMBER:	2020115
REV.	DATE
DRAWN BY:	EJRM/L
DESCRIPTION	

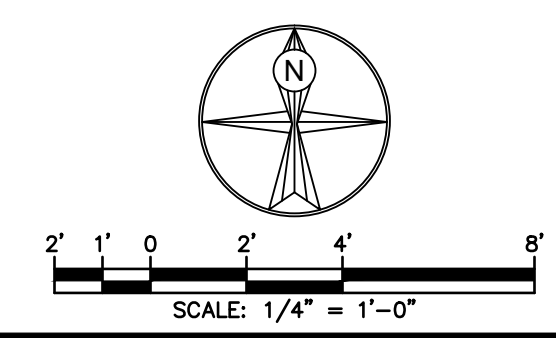
**CITY OF BANGOR
 BANGOR TRANSPORTATION CENTER
 PICKERING SQUARE, BANGOR, ME**

DATE:
 MAY 12, 2021

S504



BOILERS B-2 & B-3, VENTS AND ALL RELATED PIPING AND EQUIPMENT PROVIDED UNDER ALTERNATE B



Hewett & Whitney
ENGINEERS & DESIGNERS
ELECTRICAL & MECHANICAL SYSTEMS
161 MAIN STREET WINTHROP, MAINE
Tel 207•377•6969 Fax 207•377•7584
PLOT DATE: May 10, 2021

HVAC DUCT PLAN

PROJ NUMBER: 2020115 / 21002
REV: DATE

DRAWN BY: GRL, KWW
DESCRIPTION

**CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME**

DATE: APRIL 12, 2021

H101

BOILERS								
UNIT	OUTPUT (MBH)		FUEL	MODEL NO.	GPH	POWER	HP	NOTES
	GROSS	NET						
B-1	94	77	NAT GAS	200-W-94	-	120	-	1,2
B-2	399	323	NAT GAS	200-W-399	-	120	-	1,3
B-3	399	323	NAT GAS	200-W-399	-	120	-	1,3

NOTES:

- BASED ON VISSMAN MODEL 200-W
- B-1: PROVIDE LOW LOSS HEADER AND FLOOR STAND
- B-2 AND B-3: SNOW MELTING CASCADING BOILERS WITH INTEGRAL INJECTION PUMPS WITH CHECK VALVES, DISTRIBUTION MANIFOLD, LOW LOSS HEADER AND FLOOR STAND. B-2, B-3 AND ALL RELATED EQUIPMENT AND PIPING PROVIDED UNDER ALTERNATE B.

DIFFUSER/REGISTER SCHEDULE								
UNIT	MODEL NO.	MAX CFM	T.P. * W.C.	THROW (FT)	NC	PATTERN	SIZE	NOTES
SAD-1	5000-2	100	.03	7-11	20	4-WAY	6"x6"	1
SAG-1	V4004P-1	135	.04	10-21	<20	0 DEG	12"x4"	1,2
EAG-1	CC5-1	200	.03	-	20	-	8"x8"	1
EAG-2	4000PCFFR-1	120	.06	-	<20	-	12"x4"	1,2
EAG-3	RHE	100	.01	-	<20	-	8"x6"	1

NOTES:

- BASED ON METALAIR
- SPIRAL DUCT GRILLE, PROVIDE WITH EXTRACTOR DAMPER PLATE.

HEAT RECOVERY UNIT SCHEDULE										
UNIT	CFM	TSP	ESP	BHP	HP	POWER	TYPE	DIA.	RPM	
HRU-1	445	-	.75	-	.5	120	-	-	-	
HEAT RECOVERY	TYPE	EAT		LAT		ROOM		% EFF		
HRU-1	CORE	87/71	-7/-7	80/67	50	70	50	65		
FILTER	AREA	TYPE	EFF.	APD	% GLYCOL		WEIGHT			
HRU-1	1.9	PLEAT	30	-			225			

NOTES:

- BASED ON RENEWAIRE EV450N
- DOUBLE WALL CONSTRUCTION, PAINTED FINISH, ENTHALPY CORE
- SINGLE ECM MOTOR, 120V, FLA 8.1, MCA 10.1, MOP 15A.

HEATERS												
UNIT	TYPE	MODEL	CFM	HP	THROW (FT)	MBH	GPM	WPD (FT)	RPM	EWT (°F)	LWT (°F)	NOTES
UH-1	HOR	S-24	450	16W	-	13.4	1.0	.006	1550	180	150	1,2
UH-2	HOR	S-24	450	16W	-	13.4	1.0	.006	1550	180	150	1,2
TSH-1	HOR	HAV-88-3	103	50W	-	8.9	1.0	.18	-	180	150	3,4
TSH-2	HOR	HAV-88-3	103	50W	-	8.9	1.0	.18	-	180	150	3,4
TSH-3	HOR	HAV-88-3	103	50W	-	8.9	1.0	.18	-	180	150	3,4
TSH-4	HOR	HAV-88-3	103	50W	-	8.9	1.0	.18	-	180	150	3,4

NOTES:

- BASED ON TRANE
- LOUVER FIN DIFFUSER
- BASED ON EMBASSY
- PROVIDE VERTICAL RECESSED CABINET OPTION, COORDINATE INSTALLATION WITH GC

PUMP SCHEDULE (P)												
UNIT	LOC.	SYS.	MODEL	TYPE	GPM	TDH (FT)	EFF %	HP	RPM	POWER	NOTES	
P-1	BLR	INJ	2410	IL	6.2	22	-	1/10	3450	115	1	
P-2	BLR	HTG	2420	IL	13	28	-	1/6	3450	115	1	
P-3	BLR	HTG	2420	IL	13	28	-	1/6	3450	115	1	
P-4	BLR	INJ	UPS 32-160/2	CART	37.5	35	-	3/4	3450	115	2,3,4	
P-5	BLR	INJ	UPS 32-160/2	CART	37.5	35	-	3/4	3450	115	2,3,4	
P-6	BLR	SNOW	1941	IL	65	60	51	3	1760	208/3	1,3,4	
P-7	BLR	SNOW	1941	IL	65	60	51	3	1760	208/3	1,3,4	

NOTES:

- BASED ON TACO
- BASED ON GRUNDFOS, P-4 AND P-5 ARE INJECTION PUMPS TO BE SUPPLIED WITH THEIR RESPECTIVE BOILERS.
- PUMPS P-4 THRU P-7 ARE TO BE SUITABLE FOR PROPYLENE GLYCOL
- PUMPS P-4, P-5, P-6 & P-7 ARE PROVIDED UNDER ALTERNATE B

LOUVER SCHEDULE					
UNIT	SIZE	MODEL	FREE AREA (SQ FT)	APD (IN. W.C.)	CFM
L-1	24"x18"	ELF375DX	1.34	0.04	445
L-2	24"x18"	ELF375DX	1.34	0.04	445
L-3	18"x18"	ELF375DX	0.96	0.04	350

NOTES:

- BASED ON RUSKIN

REHEAT COIL (RH)													
UNIT	MAX CFM	AREA (SQ FT)	ROWS	FINS /FT	EAT	LAT	EWT	GPM	WPD	APD	MBH	SIZE	TYPE
RH-1	445	1	1	135	50	80	180	1.0	0.08	0.82	14.6	12"x12"	TT

NOTES:

- BASED ON TRANE

DUCTLESS SPLIT SYSTEM							
OUTDOOR UNIT	MODEL	AMB	KW	SEER	MAX. FUSE	MIN. CIR. AMP	POWER
ACCU-1	MXZ-3C24NAHZ2	95	-	19	40A	30.5A	208/230 1P
ACCU-2	PUMY-HP48NKMU1	95	-	22.6	40A	36A	208/230 1P
INDOOR UNIT	MODEL	CAP C/H (MBH)	WET CFM	FAN FLA	MAX. FUSE	MIN. CIR. AMP	POWER
DSS-1	MSZ-GL06NA	6/7.2	109-364	0.76A	15	1A	208/230 1P
DSS-2	MSZ-GL12NA	12/14.4	109-364	0.76A	15	1A	208/230 1P
DSS-3	MSZ-GL06NA	6/7.2	109-364	0.76A	15	1A	208/230 1P
DSS-4	PKFY-P06NLMU-E	6/6.7	141-191	0.2A	15	1A	208/230 1P
DSS-5A	PKFY-P15NLMU-E	15/17	222-353	0.3A	15	1A	208/230 1P
DSS-5B	PKFY-P15NLMU-E	15/17	222-353	0.3A	15	1A	208/230 1P
DSS-5C	PKFY-P15NLMU-E	15/17	222-353	0.3A	15	1A	208/230 1P
HEADER	CMY-Y64-G-E	-	-	-	-	-	-
INDOOR UNIT DIMENSIONS (HEIGHT, WIDTH, DEPTH)				OUTDOOR UNIT DIMENSIONS (HEIGHT, WIDTH, DEPTH)			
DSS-1,2,3	11-5/8, 31-7/16, 9-1/8			ACCU-1	41-9/32, 37-13/32, 13		
DSS-4	11-25/32, 30-7/16, 9-11/32			ACCU-2	52-11/16, 41-11/32, 13 + 1		
DSS-5A,5B,5C	11-25/32, 35-3/8, 9-11/32						

NOTES:

- BASED ON MITSUBISHI
- PROVIDE WALL MOUNTED, HARD WIRED, PROGRAMMABLE THERMOSTAT AND INTERFACE ACCESSORY, INTERFACE ACCESSORY FOR DSS-5A,5B,5C TO OPERATE FROM SINGLE HARD WIRED, PROGRAMMABLE THERMOSTAT, AND ALL NECESSARY REFRIGERATION PIPING AND ACCESSORIES.
- ACCU'S TO BE MOUNTED ON THE ROOF ON 24" HIGH SLUNG STAND.
- DSS-1,2,3 TO OPERATE WITH ACCU-1, DSS-4,5A,5B,5C TO OPERATE WITH ACCU-2
- REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR COMPLETE INSTALLATION OF THE SYSTEM.
- UNITS SUITABLE FOR HEATING TO -13 DEG.
- PROVIDE INTEGRAL CONDENSATE PUMPS FOR ALL UNITS.

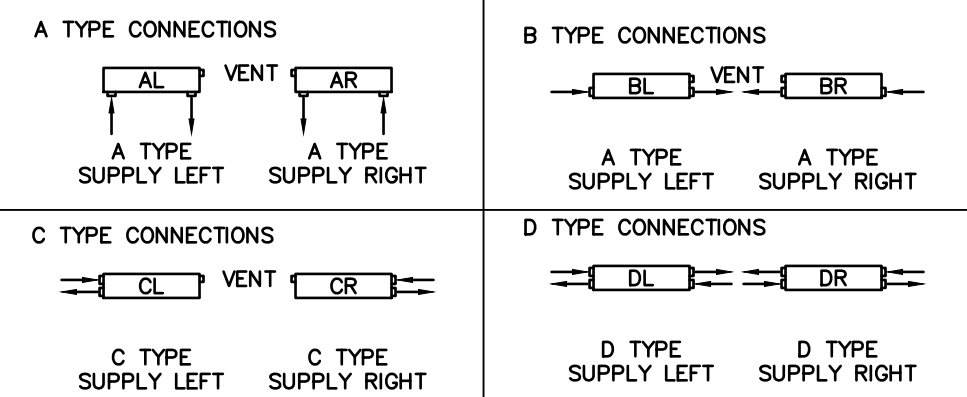
FAN SCHEDULE												
UNIT	SERVES	SONES	CFM	BALANCE CFM	T.S.P. * W.C.	RPM	TYPE	MODEL NO.	BHP	HP	POWER	NOTES
EF-1	PENTHOUSE	7.3	350	350	.25	1426	PROP	10XW40D17(VF)	.071	1/8	115	1,2,3

NOTES:

- BASED ON COOK
- ECM MOTOR WITH MOTOR MOUNTED SPEED CONTROL
- MOTOR SIDE WIRE GUARD, 45 DEG WEATHER HOOD, MOTORIZED WALL SHUTTER (ACTUATOR BY ATC), WALL COLLAR

PANEL BASEBOARD RADIATION (BB3)									
UNIT	ELEMENT			MBH	GPM	RADIATION	NOTES		
	SIZE	LENGTH	ROWS			MODEL	LENGTH	HGT	
BB3-8'	-	-	-	5.6	0.6	RF-3	8'	9"	1,2,3,4
BB3-13'	-	-	-	9.0	0.9	RF-3	13'	9"	1,2,3,4

PIPING CONNECTIONS

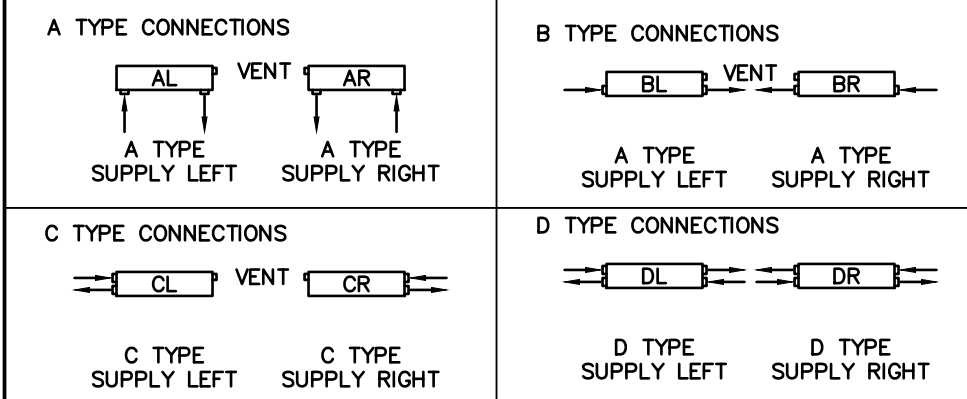


NOTES:

- BASED ON RUNTAL
- 695 BTU/FT, AWT = 170
- MINIMUM OF 0.5 GPM PER INDIVIDUAL SETTING OF RADIATION
- PROVIDE UNITS WITH PIPING CONNECTIONS AS REQUIRED FOR INSTALLATION OF UNITS AND PIPING AS SHOWN ON PLAN DRAWINGS.

PANEL BASEBOARD RADIATION (BB2)									
UNIT	ELEMENT			MBH	GPM	RADIATION	NOTES		
	SIZE	LENGTH	ROWS			MODEL	LENGTH	HGT	
BB2-3'	-	-	-	1.6	0.2	RF-2	3'	6"	1,2,3,4
BB2-6'	-	-	-	3.2	0.3	RF-2	6'	6"	1,2,3,4
BB2-7'	-	-	-	3.8	0.4	RF-2	7'	6"	1,2,3,4
BB2-8'	-	-	-	4.3	0.4	RF-2	8'	6"	1,2,3,4

PIPING CONNECTIONS



NOTES:

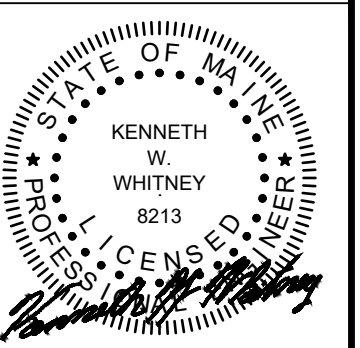
- BASED ON RUNTAL
- 540 BTU/FT, AWT = 170
- MINIMUM OF 0.5 GPM PER INDIVIDUAL SETTING OF RADIATION
- PROVIDE UNITS WITH PIPING CONNECTIONS AS REQUIRED FOR INSTALLATION OF UNITS AND PIPING AS SHOWN ON PLAN DRAWINGS.

Electrical & Mechanical Coordination Matrix		Power Wiring	HQA Switch	Combination Magnetic Starter / Disconnect	Motor Disconnect	Emergency Stop Switch	Return Smoke Detector	Smoke Detector ALU Wiring	Smoke Detector Fire Alarm Wiring	Wall Mounted Switch	15 Min. Time Delay Relay	15 Min. Time Delay Relay	Timer Switch 0-6 Hr	Timer Switch Wiring	Thermostat	Thermostat Wiring	Inelegant Light Wiring & Switch	Interlock for SF Shutdown	Reciprocating Shut-off Switch	Boiler Emergency Shut-off Switch Wiring	Boiler Fusible Element Switch	Boiler Emergency Shut-off Switch	Control Panel Wiring	
HRU-1																								
1 ph Pump P-1 to 5, PP-1																								
3 ph Pump P-6,7																								
Ceiling / In-Line Fans / Direct 1ph																								
EF-1 (Pent)																								
TSH-1 to 4																								
UH-1,2																								
ACCU-1,2 (1 ph)																								
DSS-1 to 5C (1 ph)																								
115V Circuit for ATC Control Panel - Qty 4																								
Dedicated Interrel Line for DDC																								
Water Coolers - Qty 2																								
Electric / Hybrid Water Heater - HTR-1																								
Water Heater Leak Detector																								
Electronic Plumbing Fixtures																								
Boiler B-1,2,3																								
Boiler Emergency Shut-off Switch																								
Boiler Fusible Element Switch																								

M Signifies Mechanical Supplies and Specifies
E Signifies Electrical Supplies and Specifies



128 Broadway
Bangor, Maine 04401
Phone: 207-974-3028 Fax:
207-941-1921
www.artifexae.com



05-12-21

HVAC SCHEDULES & DETAILS
DRAWN BY: GRL/KWW
DESCRIPTION

PROJ. NUMBER: 2020115 / 21002
DATE

CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME

DATE: APRIL 12, 2021

H20



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05-12-21

HVAC DETAILS	
PROJ. NUMBER: 2020115 / 21002	DRAWN BY: GRL, KWW
REV. DATE	DESCRIPTION

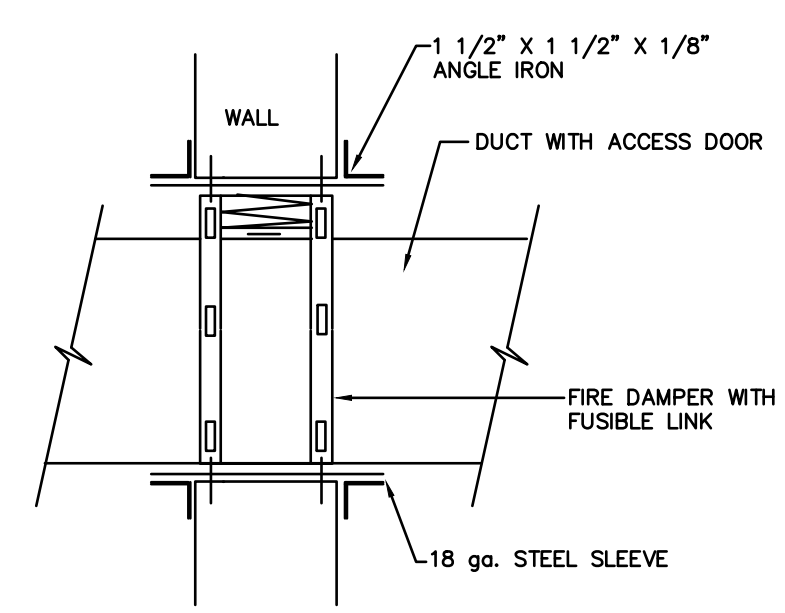
CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME

DATE:
APRIL 12, 2021

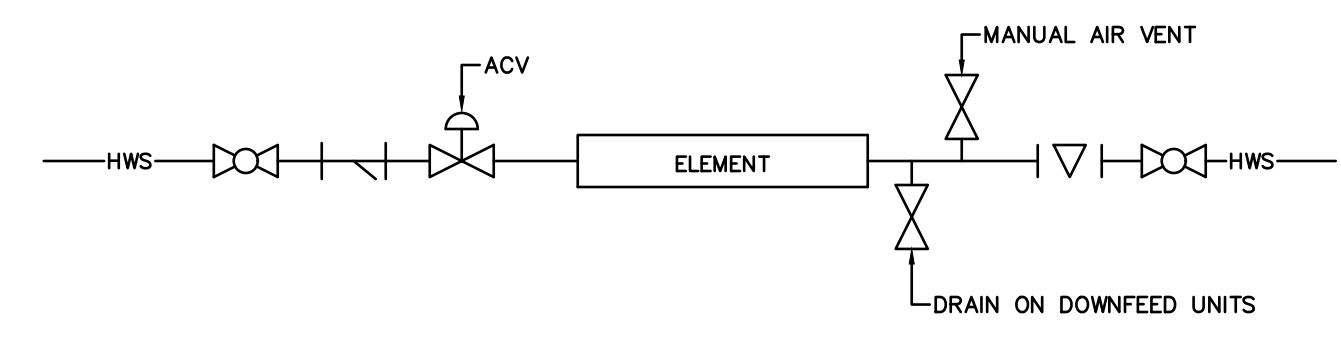
H201

HVAC LEGEND

—HWS—	HOT WATER SUPPLY
---HWR---	HOT WATER RETURN
—RADS—	RADIANT SYSTEM SUPPLY
---RADR---	RADIANT SYSTEM RETURN
—CWS—	CHILLED WATER SUPPLY
---CWR---	CHILLED WATER RETURN
—HG—	HOT GAS LINE
—L—	LIQUID LINE
—SL—	SUCTION LINE
—G—	GAS LINE
—R—	PIPE RISER
—D—	PIPE DROP
—E—	ECCENTRIC REDUCER
—X—	PIPE ANCHOR
—U—	UNION
—G—	GATE VALVE
—B—	BALL VALVE
—C—	CHECK VALVE
—P—	IN - LINE PUMP
—S—	STRAINER
—T—	THERMOMETER/THERMOWELL
—G—	PRESSURE GAUGE WITH SHUT-OFF COCK
—B—	BALANCING AND SHUT-OFF VALVE
—P—	PRESSURE RELIEF VALVE
—F—	FUSIBLE LINK VALVE
—F—	FUEL OIL FILTER
—FC—	FLEXIBLE CONNECTOR (FC)
—AAV—	AUTOMATIC AIR VENT
—S—	SUPPLY DUCT
—R—	EXHAUST OR RETURN DUCT
—FD—	FIRE DAMPER
—V—	VOLUME DAMPER
—M—	MOTOR OPERATED DAMPER (MOD)
—TV—	TURNING VANE (TV)
—L—	ACOUSTICALLY LINED DUCTWORK
—P—	FIRE SUPPRESSION PULL STATION
—EX—	EXISTING EQUIPMENT
—X—	EXISTING EQUIPMENT TO BE REMOVED
—T—	TIE INTO EXISTING SYSTEM
—A—	ABOVE FINISHED FLOOR
—AFF—	AUTOMATIC CONTROL VALVE
—NTS—	NOT TO SCALE
—ACV—	AUTOMATIC CONTROL VALVE
—T—	THERMOSTAT/TEMPERATURE SENSOR
—H—	HUMIDISTAT
—S—	WALL SWITCH
—P—	TIMER
—PNL—	CONTROL PANEL
—NIC—	NOT IN CONTRACT
—D—	BACKDRAFT DAMPER
—AV—	AUTOMATIC CONTROL VALVE

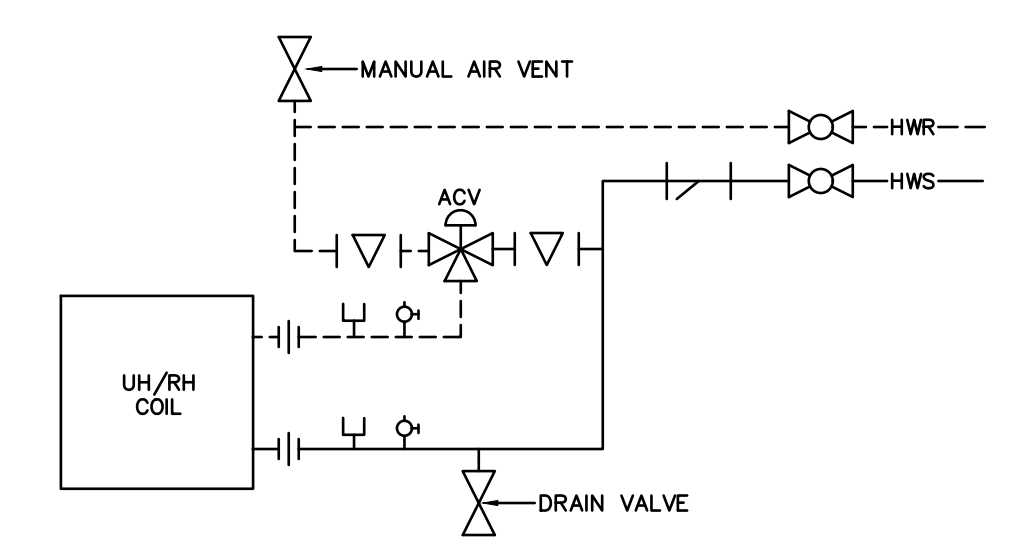


FIRE DAMPER DETAIL
NTS



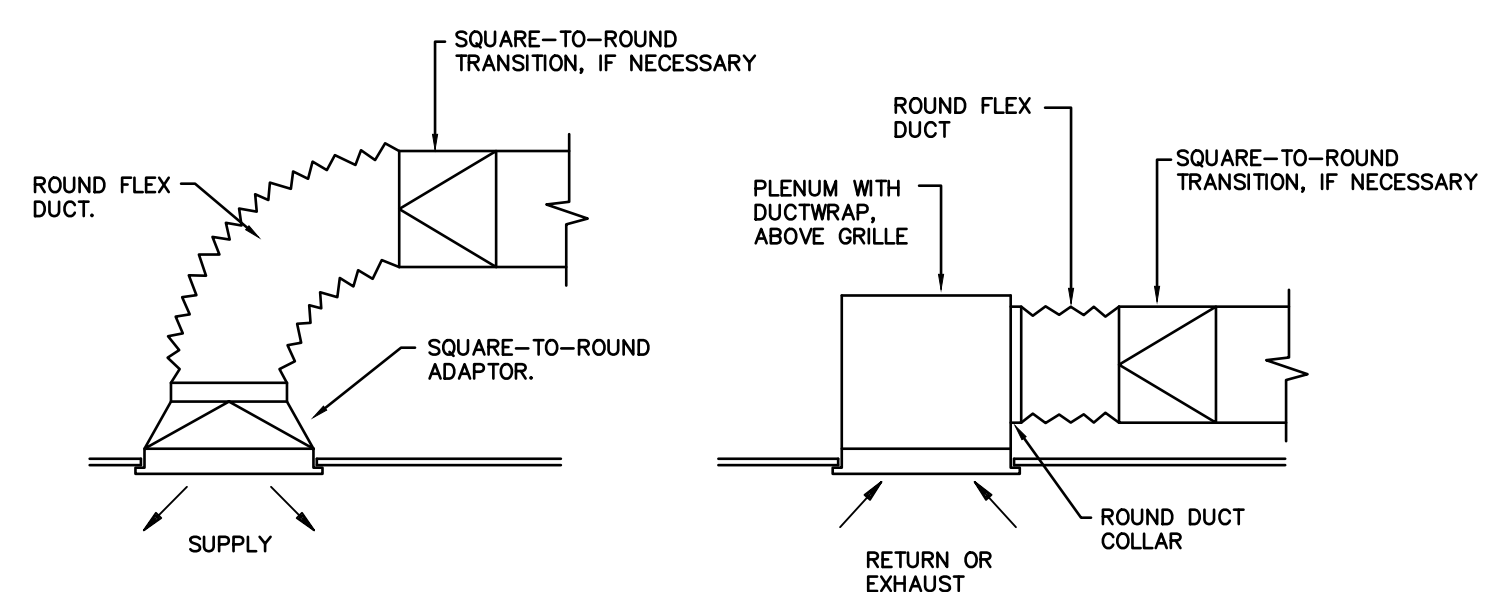
RADIATION PIPING DETAIL
NTS

- NOTES:
1. PROVIDE ECCENTRIC REDUCERS, DIELECTRIC FITTINGS AND UNIONS AT THE ELEMENT AS REQUIRED DUE TO PIPE MATERIAL AND SIZE DIFFERENCES.
 2. WHERE ACV DOES NOT FIT WITHIN ENCLOSURE, INSTALL IN CEILING VOID.



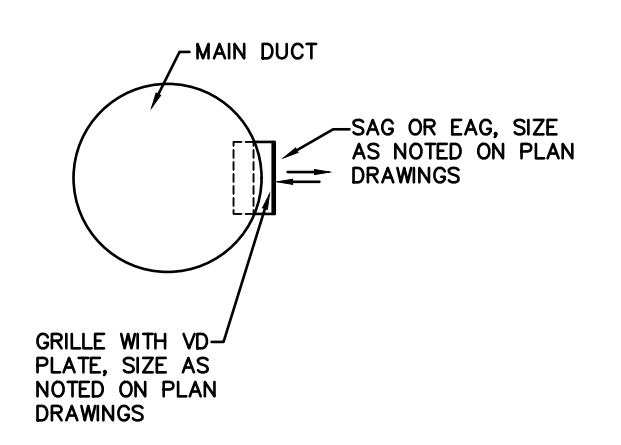
COIL WITH 3-WAY VALVE DETAIL
NTS

- NOTES:
1. DETAIL TYPICAL FOR UH'S AND RH'S.

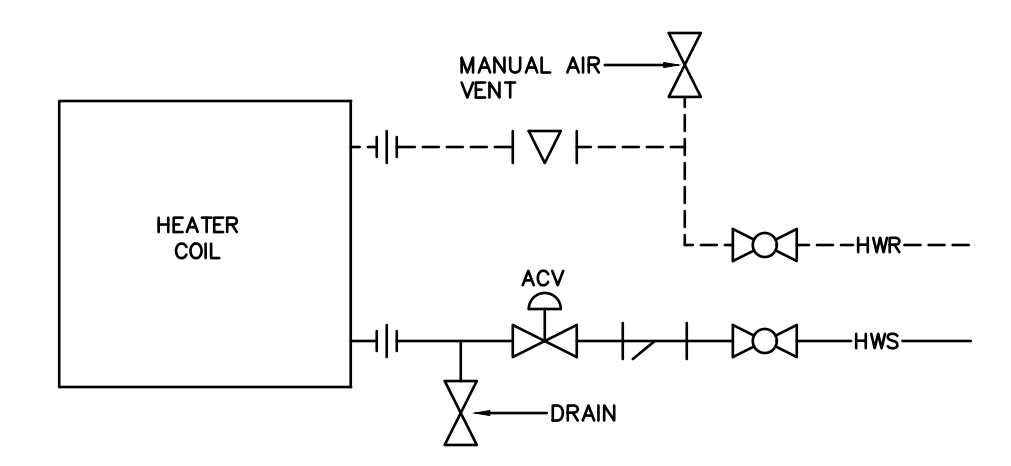


GRILLE & DIFFUSER DETAIL
NTS

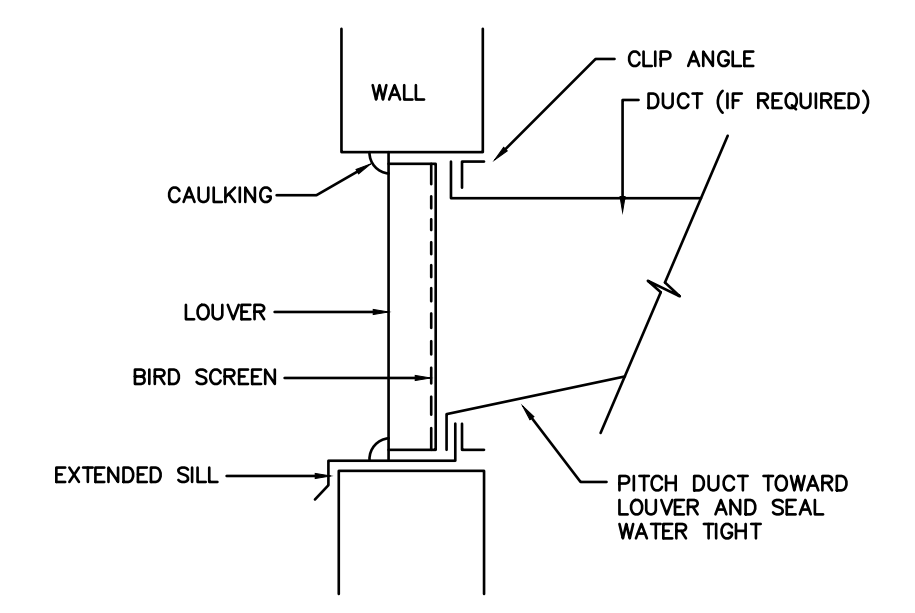
- NOTES:
1. FLEX DUCT LENGTH 3 TO 5 FEET.
 2. TYPICAL FOR SUPPLY, RETURN AND EXHAUST.
 3. PROVIDE SQUARE-TO-ROUND ADAPTORS AS SHOWN.
 4. SEE FLOOR PLAN FOR SIZES.



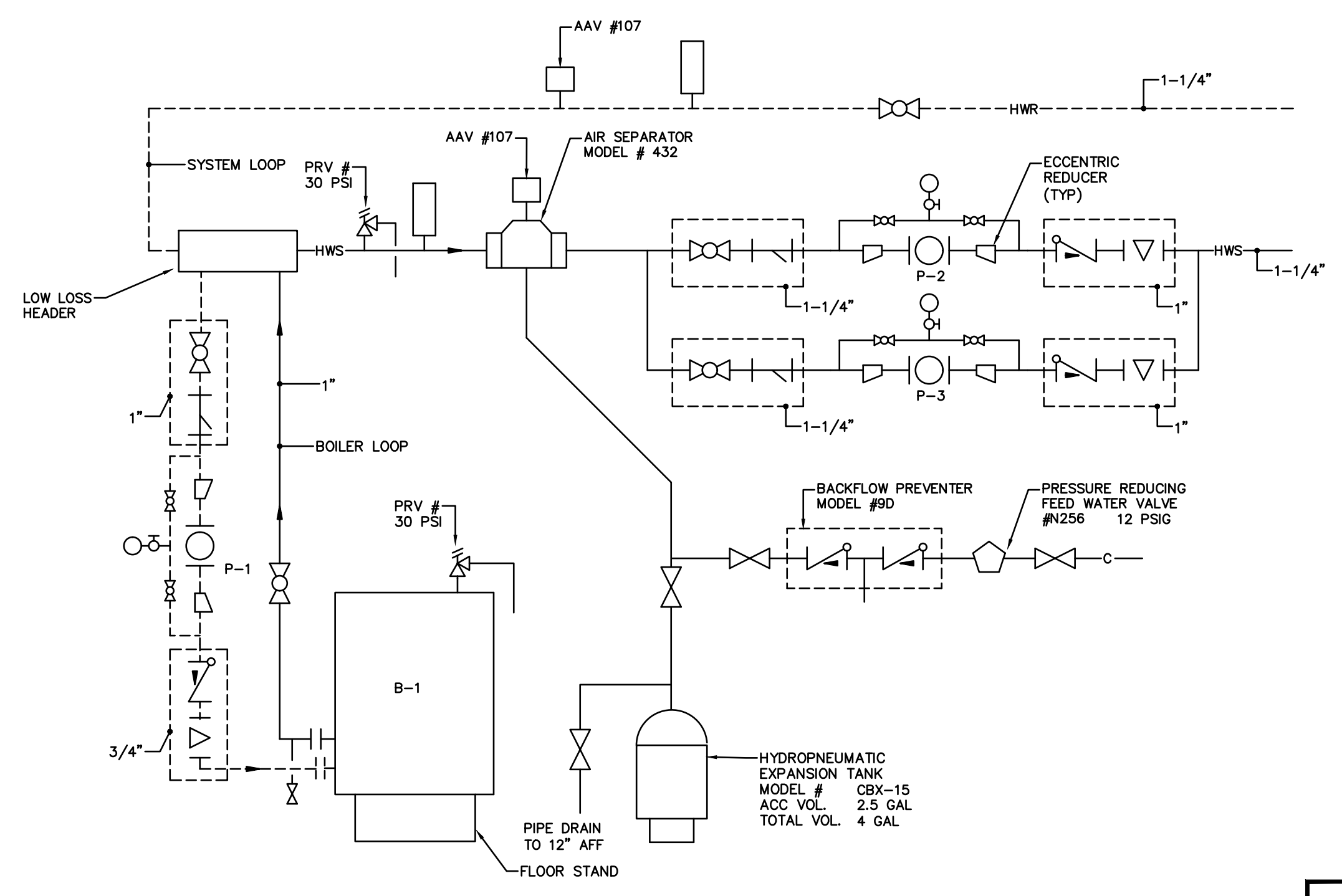
ROUND DUCT GRILLE MOUNTING DETAIL
NTS



TSH COIL DETAIL
NTS



LOUVER DETAIL
NTS



BOILER/HEATING SYSTEM PIPING DIAGRAM
NTS

- NOTES:
1. CONTRACTOR TO VERIFY BOILER PIPING CONFIGURATION WITH MANUFACTURER PRIOR TO CONSTRUCTION.

Hewett & Whitney
ENGINEERS & DESIGNERS
ELECTRICAL & MECHANICAL SYSTEMS
161 MAIN STREET WINTHROP, MAINE
Tel 207•377•6969 Fax 207•377•7584
PLOT DATE: May 10, 2021

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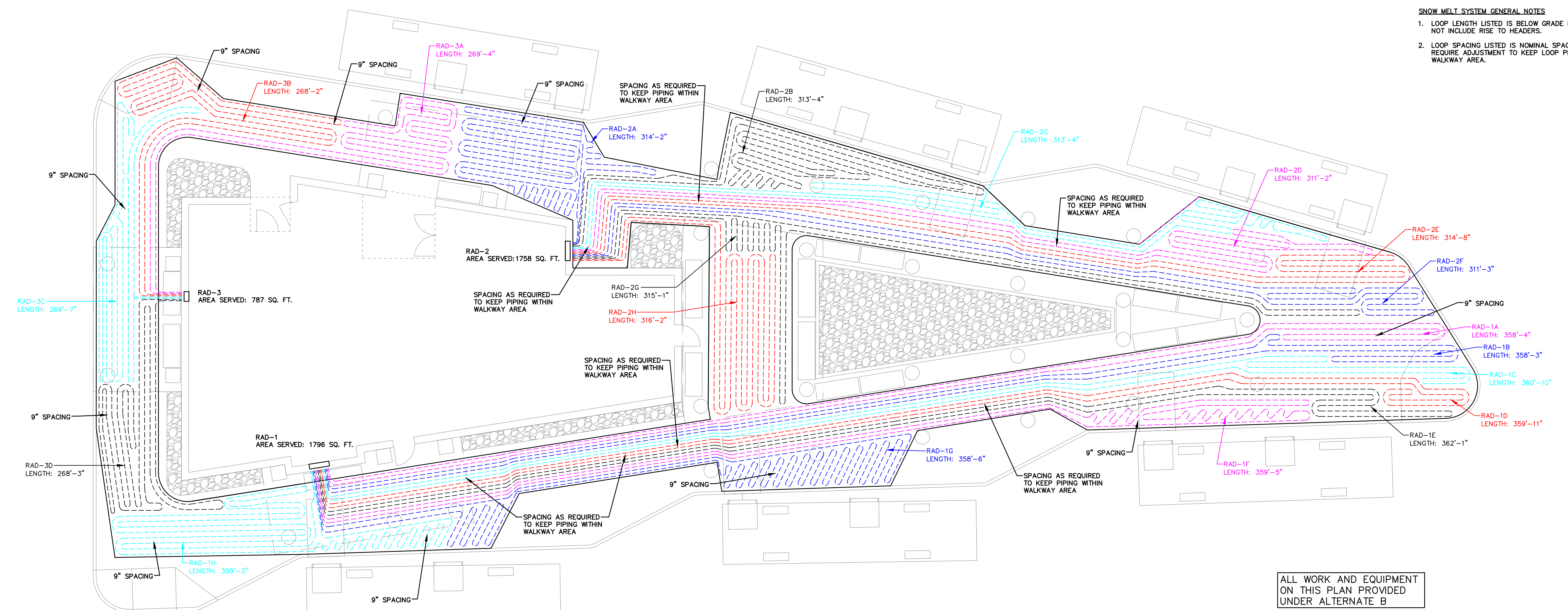
SNOW MELT SYSTEM DETAILS	
PROJ. NUMBER:	2020115 / 21002
DATE:	
REV.	
DRAWN BY:	GRL, KWW
DESCRIPTION:	

CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME

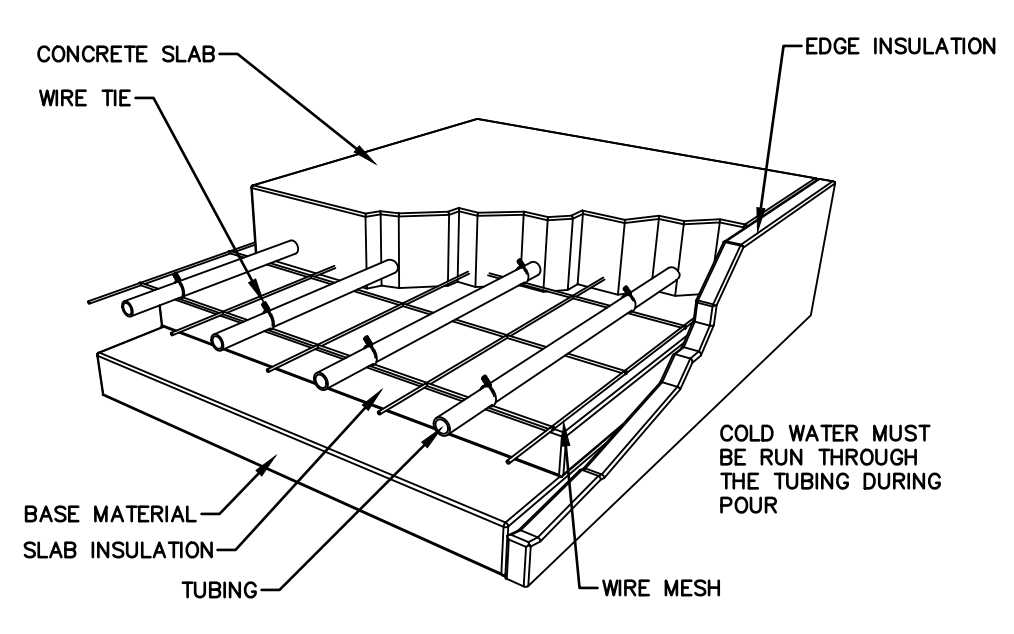
DATE:
APRIL 12, 2021

H202

- SNOW MELT SYSTEM GENERAL NOTES**
1. LOOP LENGTH LISTED IS BELOW GRADE LENGTH AND DOES NOT INCLUDE RISE TO HEADERS.
 2. LOOP SPACING LISTED IS NOMINAL SPACING AND MAY REQUIRE ADJUSTMENT TO KEEP LOOP PIPING WITHIN THE WALKWAY AREA.



ALL WORK AND EQUIPMENT ON THIS PLAN PROVIDED UNDER ALTERNATE B

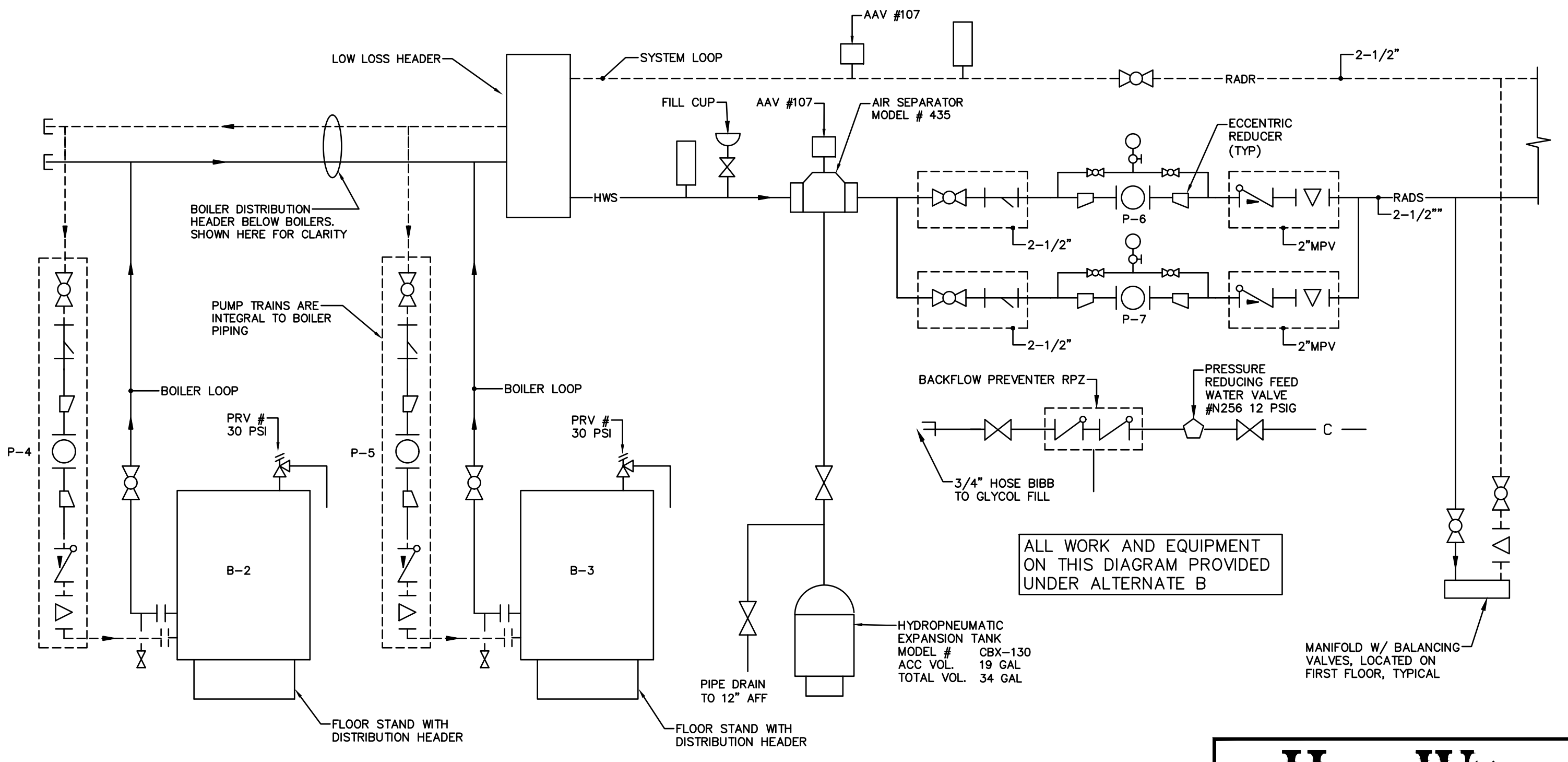


RADIANT HEAT SNOW/ICE MELT IN SLAB ON GRADE DETAIL
N.T.S.

- NOTES:
1. RADIANT TUBING AND WIRE MESH BY MECHANICAL CONTRACTOR. TUBING TO BE MOUNTED 3"± BELOW SLAB SURFACE
 2. ALL OTHER MATERIAL BY G.C. REFER TO THE STRUCTURAL CONCRETE DETAILS FOR A MORE COMPREHENSIVE REPRESENTATION OF THE SLAB CONSTRUCTION

RADIANT ICE MELT SYSTEM SCHEDULE						
RAD ZONE #	LOOPS PER ZONE	AREA (SQ FT)	SPACING (ON CENTER)	GPM PER LOOP	AVE./MAX LOOP LENGTH (FT)	NOTES
RAD-1	8	1796	9" (NOMINAL)	3.3	359/362	1-5
RAD-2	8	1758	9" (NOMINAL)	3.3	315/317	1-5
RAD-3	4	787	9" (NOMINAL)	2.9	269/270	1-5

- NOTES
1. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RADIANT SNOW MELT SYSTEM INCLUDING ALL CONTROL WIRING IN ACCORDANCE WITH SECTION 23.
 2. CONTRACTOR SHALL PROVIDE RADIANT SYSTEM FOR ZONES AS SHOWN ON THE SNOW MELT SYSTEM PLAN. LOOPS NOTED ON PLAN ARE A SUGGESTED LAYOUT. CONTRACTOR MAY PROVIDE SUBSTITUTE LAYOUT WITH AVE./MAX LENGTH SIMILAR TO LENGTHS NOTED ON SCHEDULE AND PLAN. MAXIMUM TUBE LENGTH OF 370 FEET PER LOOP INCLUDING TUBE RISE TO HEADER. BALANCE ZONES AS INDICATED.
 3. RADIANT SYSTEM SHALL INCLUDE ALL TUBING, TIES, CONNECTORS, MANIFOLDS, PRESSURE TEST KIT AND THERMOMETERS. TUBING SHALL BE NOMINAL 3/4" DIAMETER PLACED ON WIRE MESH.
 4. 2" RIGID INSULATION, WIRE MESH AND CONCRETE SLAB TO BE PROVIDED BY THE GC.
 5. COORDINATE LOCATION AND SIZE OF PIPING MANIFOLDS WITH ARCHITECT PRIOR TO CONSTRUCTION. VERIFY ACCESS PANEL SIZE.



ALL WORK AND EQUIPMENT ON THIS DIAGRAM PROVIDED UNDER ALTERNATE B

BOILER SNOW MELTING SYSTEM PIPING DIAGRAM
NTS

- NOTES:
1. B-2 AND B-3 ARE CASCADING BOILERS WITH INTEGRAL PUMPS WITH CHECK VALVES, DISTRIBUTION MANIFOLD, LOW LOSS HEADER AND FLOOR STAND

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Tel 207-377-6969 Fax 207-377-7584
PLOT DATE: May 10, 2021

ELECTRICAL SYMBOLS & INSTRUCTIONS

[XXX]	ROOM NUMBER.
(X)	KEYED NOTE, SEE NOTE OF SAME LETTER ON SHEET.
(X)	DETAIL DESIGNATION: UPPER FIELD IS DETAIL IDENTIFIER, LOWER FIELD IS SHEET NUMBER WHERE DETAIL IS SHOWN.
---	BRANCH CIRCUIT WIRING ON PLAN DRAWING INDICATES CONCEALED IN CEILING OR WALL. DIAGRAM DRAWING WIRING INDICATES NEW.
---	BRANCH CIRCUIT WIRING ON PLAN DRAWING INDICATES CONCEALED IN FLOOR. DIAGRAM DRAWING WIRING INDICATES EXISTING.
---	BRANCH CIRCUIT WIRING ON PLAN DRAWING INDICATES EXPOSED WIRING. DIAGRAM DRAWING WIRING INDICATES REMOVED.
---	LOW-VOLTAGE OR SYSTEMS WIRING CONCEALED IN CEILING OR WALL.
---	WIRING UP TO ABOVE.
---	WIRING DOWN TO BELOW.
---	MULTI-CONDUCTOR BRANCH CIRCUIT, NO. OF HASHMARKS IS NO. OF CIRCUIT CONDUCTORS, WITHOUT HASHMARKS TWO CIRCUIT CONDUCTORS. ALL CIRCUITS TO INCLUDE SEPARATE GREEN GROUNDING CONDUCTOR. FOR FLUORESCENT LIGHTING CIRCUITS, INCREASE NEUTRAL CONDUCTOR 1 SIZE OVER PHASE CONDUCTORS (#10 AWG FOR 20A CIRCUIT)
---	HOMERUN TO CIRCUIT AND PANELBOARD INDICATED, NO. OF ARROWS IS NO. OF PHASE WIRES, NO. OF HASHMARKS INDICATE NO. OF CIRCUIT CONDUCTORS.
---	DIRECTIVE ARROW.
---	CIRCUIT BREAKER.
---	GROUND.
[] [] []	JUNCTION BOX, SPLICE BOX AND PULL BOX.
---	LIGHTING WIRING OUTLET BOX WITH FLEXIBLE WIRING CONNECTION (WHIPS).
[] [] []	FLUORESCENT OR LED LIGHTING FIXTURE WITH AND WITHOUT OUTLET, UPPER CASE LETTER TYPE, LOWER CASE LETTER IS CONTROL GROUP, RECTANGLES INDICATE NO. OF SECTIONS. SEE LIGHTING FIXTURE SCHEDULE FOR TYPES AND MOUNTING.
(X)	CEILING MOUNTED LIGHTING FIXTURE, LETTER SUBSCRIPTS AS ABOVE.
(X)	WALL MOUNTED LIGHTING FIXTURE, LETTER SUBSCRIPTS AS ABOVE.
---	PHOTOCELL CONTROL.
S ^o Sh Sp Sk Sm St Sl S ₂ S ₃ S ₄	SPST FLUSH WALL SWITCH 4"-0" UP ON CENTER ADJUSTED TO MINIMUM CUT OF BLOCK OR TILE, LOWER CASE LETTER IS CONTROL GROUP, WITH "H" 6" ABOVE FLOOR, WITH "P" PILOT LIGHT, WITH "K" KEY OPERATED, WITH "M" MOMENTARY, WITH "T" 0-6 HOUR TIMER, WITH "L" LOW-VOLTAGE, WITH SUPERSCRIPIT # QUANTITY OF LOW VOLTAGE BUTTONS (ONE PER ZONE).
S ₂ S ₃ S ₄	DOUBLE POLE, THREE-WAY AND FOUR-WAY SWITCHES, SUBSCRIPTS AS ABOVE.
D	DIMMER SWITCH, SUBSCRIPTS THE SAME AS ABOVE.
---	120/208 VOLT PANELBOARD, FLUSH MOUNTED AND SURFACE MOUNTED.
---	120/240 VOLT PANELBOARD, FLUSH MOUNTED AND SURFACE MOUNTED.
---	277/480 VOLT PANELBOARD, FLUSH MOUNTED AND SURFACE MOUNTED.
---	UNIVERSAL PANEL OR CABINET, FLUSH MOUNTED AND SURFACE MOUNTED.
(X)	MOTOR OF SIZE SHOWN, WITH "F" FRACTIONAL HORSEPOWER MOTOR BELOW 1/20 HP OR 100 WATTS.
[M]	UTILITY POWER METER. MOUNT 5'-0" UP.
[P]	PANIC BUTTON TO POLICE DISPATCH, COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
[P]	ADA AUTOMATIC DOOR OPENER, 4'-0" ABOVE FINISH FLOOR.
[P]	PUSH BUTTON DOOR RELEASE, COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
[H]	UNIT HEATER.
[U]	DUPLEX GROUND POLARIZED 120 VOLT THREE-WIRE CONVENIENCE OUTLET 1'-6" UP VERTICALLY, WITH "U" 4'-0" AFF OR 0'-6" ABOVE COUNTER, ADJUST TO MINIMUM CUT OF BLOCK OR TILE, LETTER IS CIRCUIT GROUP, WITH "WP" WEATHERPROOF, WITH "G" FOR GROUND FAULT PROTECTED BY GFCI RECEPTACLE OR CIRCUIT BREAKER LOCATED UPSTREAM, WITH "H" MOUNT 7'-6" UP OR AS NOTED, WITH "TR" TAMPER RESISTANT, WITH "C" CEILING MOUNTED.
[U]	QUADRUPLX OUTLET IN ONE BOX, NOTES AND SUBSCRIPTS AS ABOVE.
[U]	GROUND FAULT CIRCUIT INTERRUPTING (GFCI) DUPLEX RECEPTACLE, 120 VOLT THREE-WIRE 20 AMP, SUBSCRIPTS AND MOUNTING AS ABOVE.
[U]	208 TO 480V OUTLET OF AMPACITY AS SHOWN, 1'-6" UP VERTICALLY OR AS NOTED ON DRAWINGS.
[E]	EQUIPMENT CONNECTION.
[E]	3-GANG PEDESTAL CHARGING STATION w/(2) GFCI RECEPTACLES AND (1) 4-PORT 4.2A USB, LEGRAND CAT# XCSPP3GRU-SV, SILVER FINISH.
[M]	ARCONAS MEDIA TOWER, REFER TO ARCHITECTURALS FOR EXACT SPECIFICATIONS.
[W]	TELEPHONE OUTLET 1'-6" AFF, QUANTITY AS NOTED, WITH "W" 4'-0" AFF, WITH "U" 0'-6" ABOVE COUNTER, WITH "F" FIBER CONNECTION TO CITY HALL.
[W]	COMPUTER DATA OUTLET 1'-6" AFF, WITH "U" 0'-6" ABOVE COUNTER, QUANTITY AS NOTED.
[W]	FLOOR MOUNTED DATA OUTLET, NOTES AND SUBSCRIPTS AS ABOVE.
[W]	WIRELESS TRANSMITTER HARDWIRED TO NETWORK.
[D]	DIGITAL SIGN SCHEDULE.
[F]	FIRE ALARM CONTROL PANEL.
[A]	FIRE ALARM REMOTE ANNUNCIATOR.
[F]	FIRE ALARM FLOW SWITCH, TAMPER SWITCH, PRESSURE SWITCH.
[A]	FIRE ALARM AUDIO/VISUAL ALARM, 6'-8" AFF.
[V]	FIRE ALARM VISUAL ALARM, 6'-8" AFF.
[P]	FIRE ALARM MANUAL PULL STATION 4'-0" AFF.
[S]	FIRE ALARM SMOKE DETECTOR, CEILING MOUNTED UNLESS NOTED OTHERWISE.
[H]	FIRE ALARM HEAT DETECTOR, CEILING MOUNTED UNLESS NOTED OTHERWISE.
[B]	FIRE ALARM EXTERIOR ALARM BELL.
[K]	FIRE ALARM KNOX BOX.
[TV]	CABLE TELEVISION OUTLET, MOUNTING HEIGHT PER ARCH'L'S.
[SM]	SECURITY MONITOR, BY SECURITY VENDOR.
[S]	CEILING MOUNTED SPEAKER.
[B]	WINDOW CALL BUZZER, MOUNT 1'-0" BELOW CEILING.
[B]	PUSH BUTTON FOR BUZZER, MOUNT 4'-0" AFF.
[C]	CLOSED CIRCUIT TV CAMERA, ARROW INDICATES APPROXIMATE AIMING DIRECTION, WITH "WP" WEATHERPROOF-EXTERIOR CAMERA, BY SECURITY VENDOR.
[CR]	PROXIMITY CARD READER, BY SECURITY VENDOR.

ABBREVIATIONS

A	AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ARCH'L	ARCHITECTURAL
ATS	AUTOMATIC TRANSFER SWITCH
BH	BANGOR-HYDRO
BATT	BATTERY
BKR	BREAKER
BLDG	BUILDING
C.c	CONDUIT, CONDUCTOR
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLS	CEILING
CMP	CENTRAL MAINE POWER CO.
CT	CURRENT TRANSFORMER
DIST	DISTRIBUTION
DN	DOWN
DWG	DRAWING
E	EXISTING
EC	ELECTRICAL CONTRACTOR
ER	EXISTING REPLACE
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATION, ELEVATOR
EMG	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
EXT	EXTERIOR
FA	FIRE ALARM
FIN	FINISH, FINISHED
FLR	FLOOR
F/P	FUTURE
GND	GROUND
HP	HORSEPOWER, HEAT PUMP
J-BOX	JUNCTION BOX
KW	KILOWATT(S)
LTS	LIGHTING
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MIN	MINIMUM
N	NEW
NIC	NOT IN CONTRACT
NID	NETWORK INTERFACE DEMARCATION
NUMBER	NUMBER
ON	ON CENTER
OC	PANEL, PANELBOARD
PVL	POLYVINYL CHLORIDE
PVC	POLYVINYL CHLORIDE
PWR	POWER
R	REMOVE
RECEP	RECEPTACLE
RL	RELOCATE
RSC	RIGID STEEL CONDUIT
SW	SWITCH
TEL	TELEPHONE
XFMR	TRANSFORMER
TYP	TYPICAL
UG	UNDERGROUND
V	VOLTS
W	WATTS
WM	WIREMOLD
WP	WEATHERPROOF
WW	WIREWAY

OCCUPANCY SENSOR SCHEDULE

[S]	HUBBELL CAT# OMNI-DT500 MULTI-TECHNOLOGY SENSOR.
[S]	HUBBELL CAT# OMNI-IR INFRARED SENSOR.
[S]	HUBBELL CAT# LIGHTHAWK-IRD2 PASSIVE INFRARED WALL SWITCH SENSOR.

NOTES:

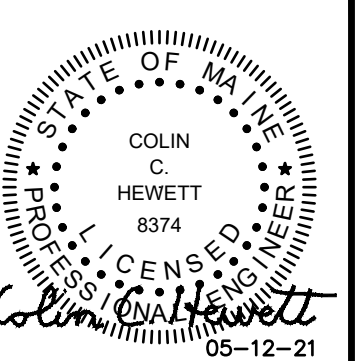
- PROVIDE EACH SENSOR WITH POWER PACK PER MANUFACTURER'S RECOMMENDATIONS.
- WALL SENSORS SHALL BE MANUAL ON/AUTO OFF. CEILING SENSORS WITH LOCAL CONTROL SHALL BE MANUAL ON/AUTO OFF WITH 4-BUTTON LOW VOLTAGE DIMMER SWITCH (ON/OFF AND RAISE/LOWER).
- CONTROLS ARE DESIGNED WITH HUBBELL DEVICES. OTHER MANUFACTURERS OF EQUAL QUALITY WILL BE CONSIDERED, BUT ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE TO VERIFY PATTERNS ARE ACCEPTABLE TO MEET DESIGN INTENT AND SHALL ADD SENSORS AS NECESSARY.

LIGHTING FIXTURE & LAMPING SCHEDULE

TYPE	DESCRIPTION	VOLTS	VA	MOUNTING & INSTRUCTIONS	LAMPING
A	LITHONIA CAT# CPANL-2X2-24/33/44LM-40K-M4 2'x2' LED FLAT PANEL, SWITCHABLE LUMENS SET TO 3300, 0-10V DIMMING DRIVER	MVOLT	30	RECESS IN GRID CEILING	LED INCLUDED 4000K
A1	LITHONIA CAT# CPANL-1X4-24/33/44LM-40K-M4 1'x4' LED FLAT PANEL, SWITCHABLE LUMENS SET TO 3300 LUMENS, 0-10V DIMMING DRIVER	MVOLT	30	RECESS IN GRID CEILING	LED INCLUDED 4000K
A1F	LITHONIA CAT# CPANL-1X4-24/33/44LM-40K-M4-DGA14 1'x4' LED FLAT PANEL, SWITCHABLE LUMENS SET TO 3300 LUMENS, 0-10V DIMMING DRIVER, w/DRYWALL GRID ADAPTER	MVOLT	30	RECESS IN GWB CEILING	LED INCLUDED 4000K
A1P	LITHONIA CAT# CPANL-1X4-24/33/44LM-40K-M4-1Y4SMKSH-PAC2DF36 1'x4' LED FLAT PANEL, SWITCHABLE LUMENS SET TO 3300 LUMENS, 0-10V DIMMING DRIVER, w/SURFACE MOUNT KIT, PANEL AIR CRAFT CABLE KIT, 2 CABLES w/Y SPLITTER, WITH POWER FEED, 36 INCHES	MVOLT	30	AIR CRAFT CABLE SUSPEND FROM STRUCTURE TO LEVEL WITH BOTTOM OF JOISTS	LED INCLUDED 4000K
A1S	LITHONIA CAT# CPANL-1X4-24/33/44LM-40K-M4-1Y4SMKSH 1'x4' LED FLAT PANEL, SWITCHABLE LUMENS SET TO 2400 LUMENS, 0-10V DIMMING DRIVER, w/SURFACE MOUNT KIT	MVOLT	25	SURFACE MOUNT TO CEILING STRUCTURE	LED INCLUDED 4000K
A4F	LITHONIA CAT# CPANL-2X4-40/50/60LM-40K-M2-DGA24 2'x4' LED FLAT PANEL, SWITCHABLE LUMENS SET TO 4000 LUMENS, 0-10V DIMMING DRIVER, w/DRYWALL GRID ADAPTER	MVOLT	35	RECESS IN GWB CEILING	LED INCLUDED 4000K
C6	LUMENWERX CAT# VIAWETS-PYC-HLO-LED-80-500-40-6-120-D1-1-GSM-EF-XX LINEAR LED PENDANT, CLEAR POLYCARBONATE LENS, 500 LUMENS/FT, 6' LENGTH, 0-10V DIMMING DRIVER, GASKETED, WET LOCATION LISTED, POWER FEED FROM END, FINISH COLOR TBD BY ARCHITECT	120	7/ FT	SURFACE MOUNT TO CANOPY STRUCTURE	LED INCLUDED 4000K
C8	LUMENWERX CAT# VIAWETS-PYC-HLO-LED-80-500-40-8-120-D1-1-GSM-EF-XX LINEAR LED PENDANT, CLEAR POLYCARBONATE LENS, 500 LUMENS/FT, 8' LENGTH, 0-10V DIMMING DRIVER, GASKETED, WET LOCATION LISTED, POWER FEED FROM END, FINISH COLOR TBD BY ARCHITECT	120	7/ FT	SURFACE MOUNT TO CANOPY STRUCTURE	LED INCLUDED 4000K
C9	LUMENWERX CAT# VIAWETS-PYC-HLO-LED-80-500-40-9-120-D1-1-GSM-EF-XX LINEAR LED PENDANT, CLEAR POLYCARBONATE LENS, 500 LUMENS/FT, 9' LENGTH, 0-10V DIMMING DRIVER, GASKETED, WET LOCATION LISTED, POWER FEED FROM END, FINISH COLOR TBD BY ARCHITECT	120	7/ FT	SURFACE MOUNT TO CANOPY STRUCTURE	LED INCLUDED 4000K
C10	LUMENWERX CAT# VIAWETS-PYC-HLO-LED-80-500-40-10-120-D1-1-GSM-EF-XX LINEAR LED PENDANT, CLEAR POLYCARBONATE LENS, 500 LUMENS/FT, 10' LENGTH, 0-10V DIMMING DRIVER, GASKETED, WET LOCATION LISTED, POWER FEED FROM END, FINISH COLOR TBD BY ARCHITECT	120	7/ FT	SURFACE MOUNT TO CANOPY STRUCTURE	LED INCLUDED 4000K
D4	LITHONIA CAT# LDN4-AL01-SWH1-L04-AR-TRW-LSS-MVOLT-UGZ 4" LED OPEN DOWNLIGHT, SWITCHABLE LUMENS SET TO 1000, CLEAR APERTURE/TRIM COLOR, WHITE FLANGE, SEMI-SPECULAR FINISH, 0-10V DIMMING DRIVER	MVOLT	15	RECESS IN GWB SOFFIT	LED INCLUDED 4000K
DE	LITHONIA CAT# 6JBK-RD-40K-90CRI-MW 4" LED LENSED DOWNLIGHT, 870 LUMENS, 0-10V DIMMING, WET LOCATION LISTED, MATTE WHITE FINISH	MVOLT	15	RECESS IN EXTERIOR CANOPY	LED INCLUDED 4000K
P6	LUMENWERX CAT# VIA4PDI-HLO-FH-WO-LED-80-500-212-40-6-120-D1-1-53WC36-AL LED PENDANT, FLUSH LENS, WIDESPREAD OPTICS, 500 LUMENS/FT DIRECT, 212 LUMENS/FT INDIRECT, 6' LENGTH, 0-10V DIMMING DRIVER, POWER AND NON-POWER CANOPY w/36" AIR CRAFT CABLE, ALUMINUM FINISH	120	9/ FT	CABLE SUSPEND 9'-0" AFF	LED INCLUDED 4000K
P8	LUMENWERX CAT# VIA4PDI-HLO-FH-WO-LED-80-500-212-40-8-120-D1-1-53WC36-AL LED PENDANT, FLUSH LENS, WIDESPREAD OPTICS, 500 LUMENS/FT DIRECT, 212 LUMENS/FT INDIRECT, 8' LENGTH, 0-10V DIMMING DRIVER, POWER AND NON-POWER CANOPY w/36" AIR CRAFT CABLE, ALUMINUM FINISH	120	9/ FT	CABLE SUSPEND 9'-0" AFF	LED INCLUDED 4000K
P10	LUMENWERX CAT# VIA4PDI-HLO-FH-WO-LED-80-500-212-40-10-120-D1-1-53WC36-AL LED PENDANT, FLUSH LENS, WIDESPREAD OPTICS, 500 LUMENS/FT DIRECT, 212 LUMENS/FT INDIRECT, 10' LENGTH, 0-10V DIMMING DRIVER, POWER AND NON-POWER CANOPY w/36" AIR CRAFT CABLE, ALUMINUM FINISH	120	9/ FT	CABLE SUSPEND 9'-0" AFF	LED INCLUDED 4000K
P12	LUMENWERX CAT# VIA4PDI-HLO-FH-WO-LED-80-500-212-40-12-120-D1-1-53WC36-AL LED PENDANT, FLUSH LENS, WIDESPREAD OPTICS, 500 LUMENS/FT DIRECT, 212 LUMENS/FT INDIRECT, 12' LENGTH, 0-10V DIMMING DRIVER, POWER AND NON-POWER CANOPY w/36" AIR CRAFT CABLE, ALUMINUM FINISH	120	9/ FT	CABLE SUSPEND 9'-0" AFF	LED INCLUDED 4000K
S	HUBBELL CAT# UR20-96L-30-4K8-3-UNV-PT24-GTT LED PEDESTRIAN SITE LIGHT, APPROX 3000 LUMENS, 80 CRI, TYPE III DISTRIBUTION, "4" POST TOP MOUNT FOR 2-3/8" OD x 4" LONG TENON", (FOR TOP POLE MOUNTING) GRAPHITE MATTE FINISH, W/CAT# RSS-K-15-40-A-TA-GTT 4" ROUND STRAIGHT STEEL POLE, 15'-0" POLE, TENON MOUNTING, GRAPHITE MATTE FINISH	MVOLT	35	POLE TOP MOUNT, 15' POLE ON ARCHITECTURAL BASE, COORDINATE BOLT PATTERN	LED INCLUDED 4000K
VIM	LITHONIA CAT# VRTL-FL48-3000LM-ICW-AP250FL-MVOLT-GZ1-40K-80CRI-WH 1'x4' VANDAL RESISTANT LED TROFFER, 3000 LUMENS, ACRYLIC FROSTED LENS w/ 1/4" POLYCARBONATE CLEAR LENS, 0-10V DIMMING DRIVER, WHITE FINISH	MVOLT	30	RECESS IN METAL CEILING	LED INCLUDED 4000K
V1W	LITHONIA CAT# VRTL-FL48-3000LM-ICW-AP250FL-MVOLT-GZ1-40K-80CRI-WL-WH 1'x4' VANDAL RESISTANT LED TROFFER, 3000 LUMENS, ACRYLIC FROSTED LENS w/ 1/4" POLYCARBONATE CLEAR LENS, 0-10V DIMMING DRIVER, WHITE FINISH, WET LOCATION	MVOLT	30	RECESS IN METAL CEILING	LED INCLUDED 4000K
V4	LITHONIA CAT# 2VRTL-FL48-3000LM-ICW-AP250FL-MVOLT-GZ1-40K-80CRI-WH 2'x4' VANDAL RESISTANT LED TROFFER, 3000 LUMENS, ACRYLIC FROSTED LENS w/ 1/4" POLYCARBONATE CLEAR LENS, 0-10V DIMMING DRIVER, WHITE FINISH	MVOLT	25	RECESS IN GWB CEILING	LED INCLUDED 4000K
W	LITHONIA CAT# WDE1LED-P1-40K-80CRI-VW-MVOLT-DNAXD LED WALLPACK, APPROX 1200 LUMENS, VISUAL COMFORT WIDE DISTRIBUTION, NATURAL ALUMINUM FINISH	MVOLT	15	WALL MOUNT 11'-6" AFG	LED INCLUDED 4000K
[X]	LITHONIA CAT# LQM-S-W-3-R-MVOLT-ELN LED EXIT SIGN, WHITE THERMOPLASTIC HOUSING, RED LETTERS, NICKEL CADMIUM BATTERY	MVOLT		MOUNT ON CEILING	LED INCLUDED
[V]	LITHONIA CAT# LQC-1-R-ELN-ELA-B-US24 LED EXIT SIGN, MATTE BLACK BRUSHED ALUMINUM FACE, RED LETTERS, NICKEL CADMIUM BATTERY, 24" PENDANT-MOUNT KIT WITH BLACK CANOPY	MVOLT		STEM SUSPEND FROM STRUCTURE	LED INCLUDED
4	LITHONIA CAT# ELM4L LED EMERGENCY LIGHTING UNIT, 640 LUMENS, TWO LAMPS, WHITE THERMOPLASTIC, IMPACT-RESISTANT HOUSING	MVOLT		WALL SURFACE 7'-6" AFF	LED INCLUDED
6	LITHONIA CAT# ELM6L-UVOLT-LTP LED EMERGENCY LIGHTING UNIT, 1100 LUMENS, TWO LAMPS, WHITE THERMOPLASTIC, IMPACT-RESISTANT HOUSING	MVOLT		WALL SURFACE 7'-6" AFF	LED INCLUDED
HO	LITHONIA CAT# ELM6L-UVOLT-LTP-HO LED EMERGENCY LIGHTING UNIT, 1100 LUMENS, TWO LAMPS, WHITE THERMOPLASTIC, IMPACT-RESISTANT HOUSING, HIGH-OUTPUT BATTERY FOR REMOTE CAPACITY	MVOLT		WALL SURFACE 7'-6" AFF	LED INCLUDED
WL	LITHONIA CAT# ELMRE-SP1100L-T-WPVS TWIN LED REMOTE HEADS, 1100 LUMENS, WHITE FINISH, w/WET PROTECTIVE VANDAL SHIELD	MVOLT		WALL SURFACE 7'-6" AFG	LED INCLUDED



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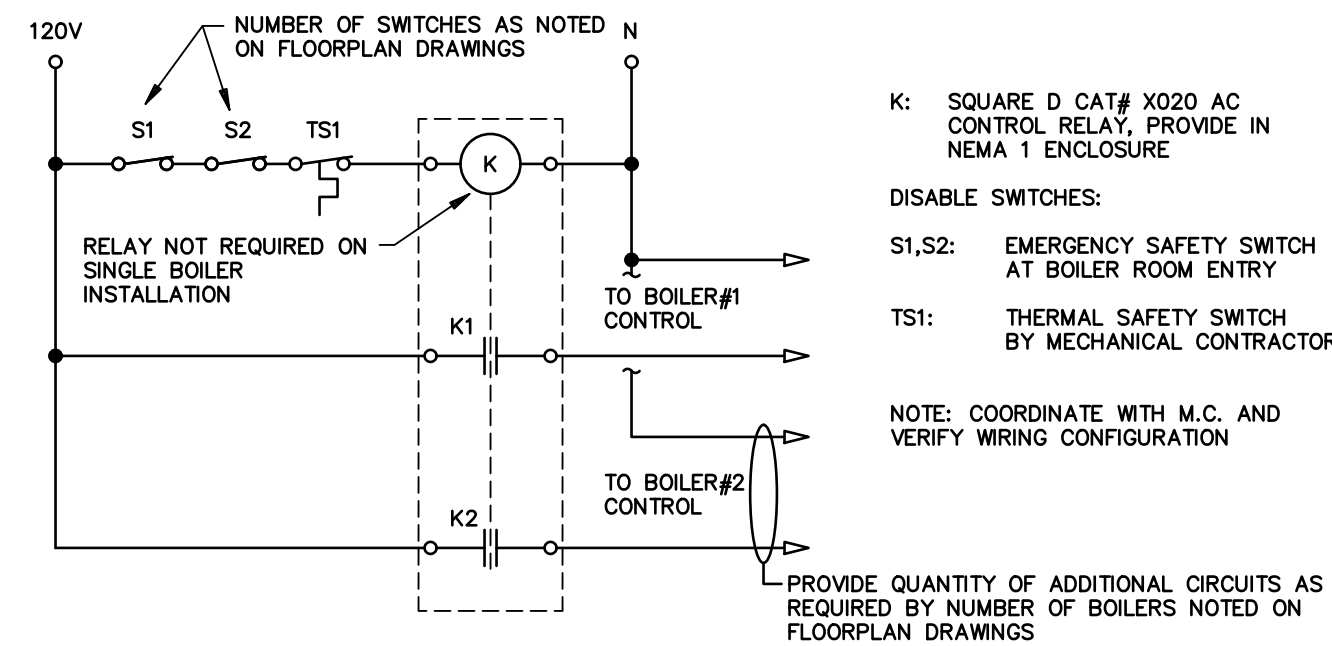
SYMBOLS LIST & FIXTURE SCHEDULE	
PROJ. NUMBER:	2020115 / 21002
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DRAWN BY:	ELHIEEH
DESCRIPTION:	

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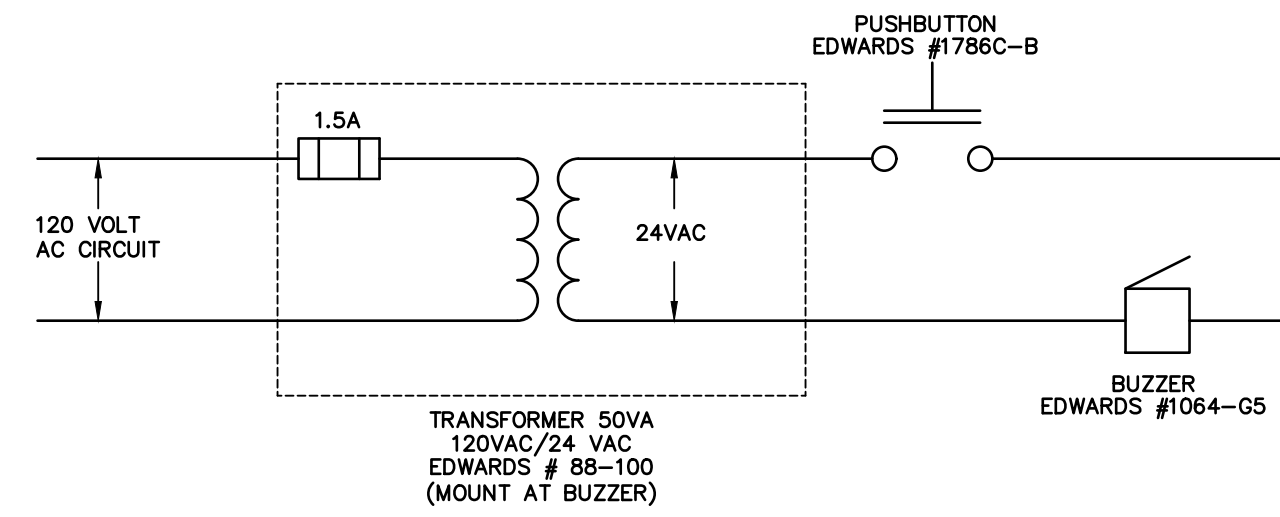
DATE:
MAY 12, 2021

E001

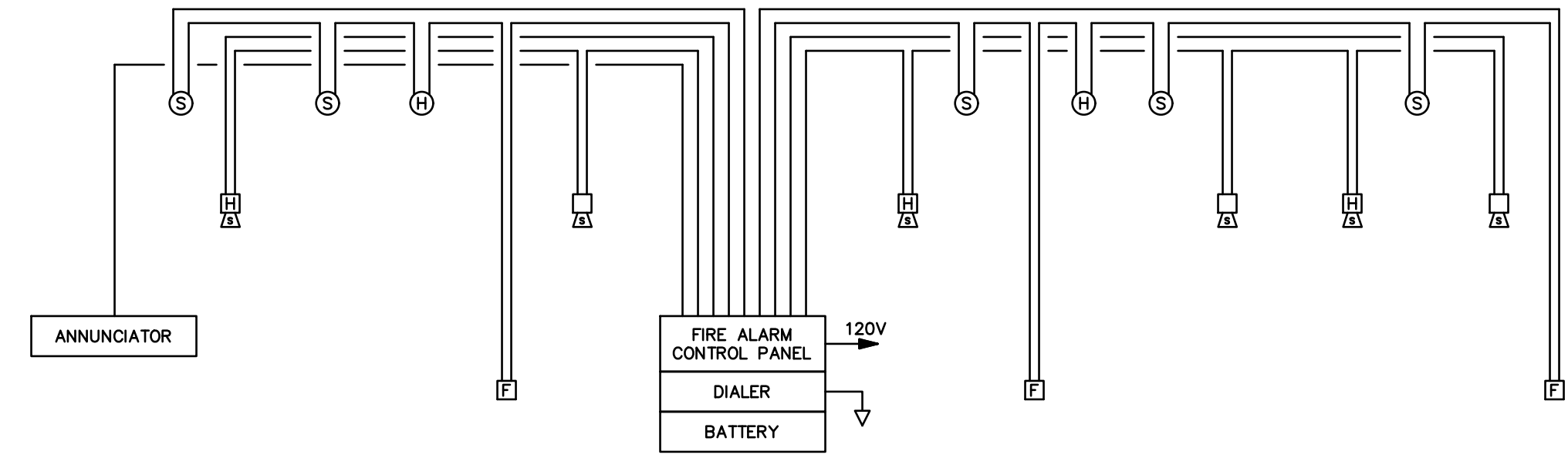
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A BOILER EMERGENCY SHUT-OFF SWITCH CONTROL
E501 NO SCALE



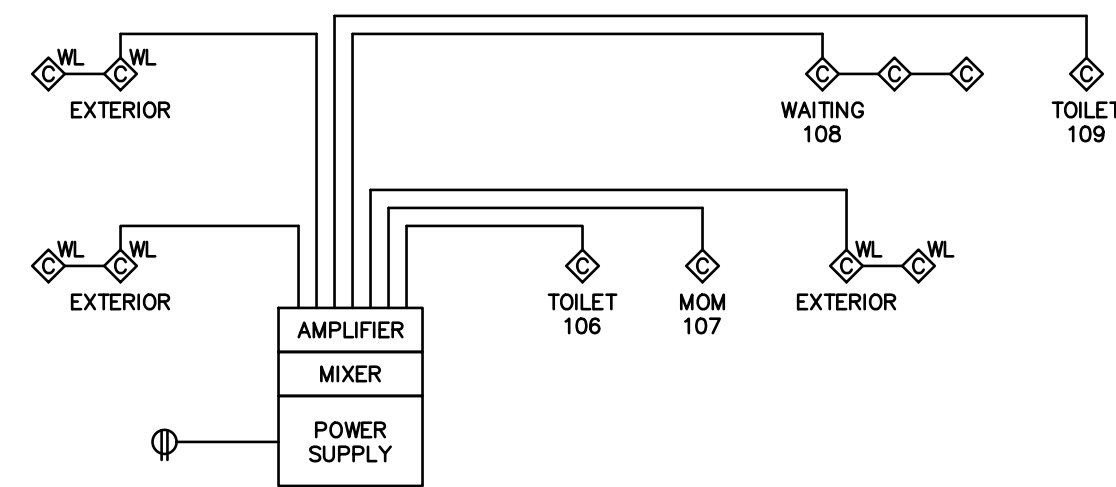
B TYPICAL WIRING FOR BUZZERS & BELLS
E501 NO SCALE



FIRE ALARM RISER DIAGRAM
SCALE: NOT TO SCALE

FIRE ALARM NOTES:

1. DIAGRAM DENOTES GENERAL ARRANGEMENT OF DEVICES AND TYPICAL SCHEMATIC WIRING. SEE FLOOR PLAN DRAWINGS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVICES.
2. PROVIDE ALL NECESSARY SYSTEM CARDS, POWER EXTENDER MODULES, POWER SUPPLIES, ENCLOSURES, AND INTERFACE MODULES NECESSARY FOR A COMPLETE AND FUNCTIONING SYSTEM.
3. PROVIDE SMOKE DETECTOR PROTECTION AT ALL FIRE ALARM EQUIPMENT LOCATIONS (NOT SHOWN ON PLANS).
4. PROVIDE SCREW SET LOCK ON DEVICES FOR ALL CIRCUIT BREAKERS SUPPLYING FIRE ALARM EQUIPMENT.



PA RISER DIAGRAM

NOTES:

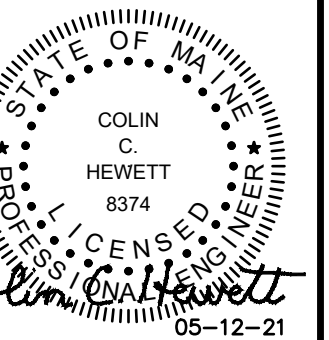
1. RISER DIAGRAM INDICATES TYPICAL DEVICE WIRING. SEE FLOOR PLANS & DETAILS FOR ACTUAL TYPE, NUMBER AND WIRING OF DEVICES.
2. WIRE PER MANUFACTURERS RECOMMENDATIONS.
3. COORDINATE EXACT LOCATION OF SOUND EQUIPMENT AND CONTROLS WITH OWNER PRIOR TO ROUGH-IN.

Electrical & Mechanical Coordination Matrix		Spans Wiring	Draws Wiring	Provides Wiring	Contributes	Coordinates	Manages	Starts	Discovers	Manual Disconnect	VFD	Supply Smoke Detector	Smoke Detector A/D Wiring	Smoke Detector Fire Alarm Wiring	Wall Mounted Switch	15 Min. Time Delay Relay	Time Switch	Time Switch E/Lr	Time Switch Wiring	Speed Switch	Speed Switch Mounting & Wiring	Thermostat	Accessories	Interface for SF Shutdown	Receptacle	Boiler Emergency Shut-off Switch	Boiler Emergency Shut-off Switch Wiring	Boiler Fusible Element Switch	Interlock for Fuel Pump Shutdown	Control Panel / Switch	
HRU-1																															
1 ph Pump P-1 to 5, PP-1																															
3 ph Pump P-4, 7																															
Ceiling / In-Line Fans / Direct 1ph																															
EF-1 (Pent)																															
TSH-1 to 4																															
UH-1,2																															
KCCU-1,2 (1 ph)																															
DSS-1 to 9C (1 ph)																															
115V Circuit for ATC Control Panel - Qty 4																															
Dedicated Internet Line for DDC																															
Water Coolers - Qty 2																															
Electric / Hybrid Water Heater - HTR-1																															
Water Heater Leak Detector																															
Electronic Plumbing Fixtures																															
Boiler B-1,2,3																															
Boiler Emergency Shut-off Switch																															
Boiler Fusible Element Switch																															

M Signifies Mechanical Supplies and Specifies
E Signifies Electrical Supplies and Specifies



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DESCRIPTION

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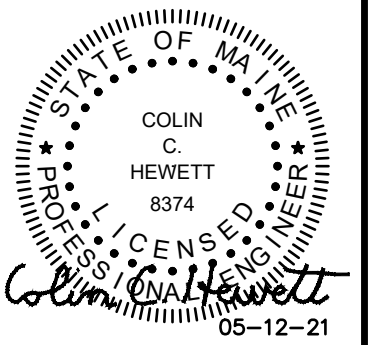
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ELECTRICAL PANEL SCHEDULES

DRAWN BY: ELHIEH

DESCRIPTION

DATE

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DATE:
MAY 12, 2021

E601

PANEL SCHEDULE

PANEL ID		TYPE: -	AMPS: -	MAIN: -	MOUNTING: -	VOLTS L-L: 208	PHASE: 3											
P-A		LOCATION: -					VOLTS L-G: 120	WIRE: 4										
BRKR		DESCRIPTION	CIR VA	HE TYP	CIR NO.	LOAD	CIR NO.	HE TYP	CIR VA	DESCRIPTION	BRKR							
A	P					A B C					P A							
20	1	RECP - SECURITY	800	R	1	1800			2	R	1000	RECP - VENDING MACHINE	1	20G				
20	1	RECP - SECURITY	800	R	3	1800			4	R	1000	RECP - VENDING MACHINE	1	20G				
20G	1	RECP - REFRIGERATOR	1000	R	5		1600		6	O	600	RESTROOM DOOR BUTTONS	1	20				
20	1	RECP - BUS COUNTER	400	R	7	1400			8	R	1000	RECP - WAITING, RR	1	20				
20	1	RECP - BUS COUNTER	400	R	9		1840		10	R	1440	RECP - WAITING CS	1	20				
20	1	RECP - BUS LOUNGE	800	R	11		2000		12	R	1200	RECP - WAITING AREA	1	20				
20	1	RECP - RR, MOMS RM	600	R	13	1200			14	R	600	RECP - ADMIN COUNTER	1	20				
20	1	RECP - ADMIN COUNTER	600	R	15		1400		16	R	800	RECP - MECH, CORR, RR	1	20				
20	1	RECP - ADMIN COUNTER	600	R	17		800		18	O	200	PLUMBING AUTO SENSORS	1	20				
20	1	RECP - ADMIN COUNTER	600	R	19	800			20	O	200	PLUMBING AUTO SENSORS	1	20				
20	1	TSH-1-4, UH-1	216	H	21		216		22	S	0	SPARE	1	20				
20	1	PLUMBING AUTO SENSORS	200	O	23		1400		24	R	1200	RECP - EXTERIOR	1	20				
20G	1	WATER FOUNTAIN	260	O	25	1700			26	R	1440	RECP - WAITING CS	1	20				
20G	1	WATER FOUNTAIN	370	O	27		770		28	O	400	FACP	1	20				
20	1	PLUMBING AUTO SENSORS	200	O	29		700		30	O	500	SECURITY PANEL	1	20				
20	1	SPARE	0	S	31	0			32	S	0	SPARE	1	20				
20	1	SPARE	0	S	33	0			34	S	0	SPARE	1	20				
20	1	SPARE	0	S	35	0			36	S	0	SPARE	1	20				
20	1	SPARE	0	S	37	0			38	D	0	PANEL LP-B	3	-				
20	1	SPARE	0	S	39	0			40	D	0	-	-	-				
20	1	SPARE	0	S	41	0			42	D	0	-	-	-				
PHASE TOTALS			6900		6026	6500												
CONNECTED VA :			19426			CONNECTED AMPS :			53									
CIRCUIT TYPE (CODE):												LIGHTS (L)	RECEPTACLE (R)	MOTOR (M)	HEAT (H)	OTHER (O)	SPARE (S)	DISTRIB (D)

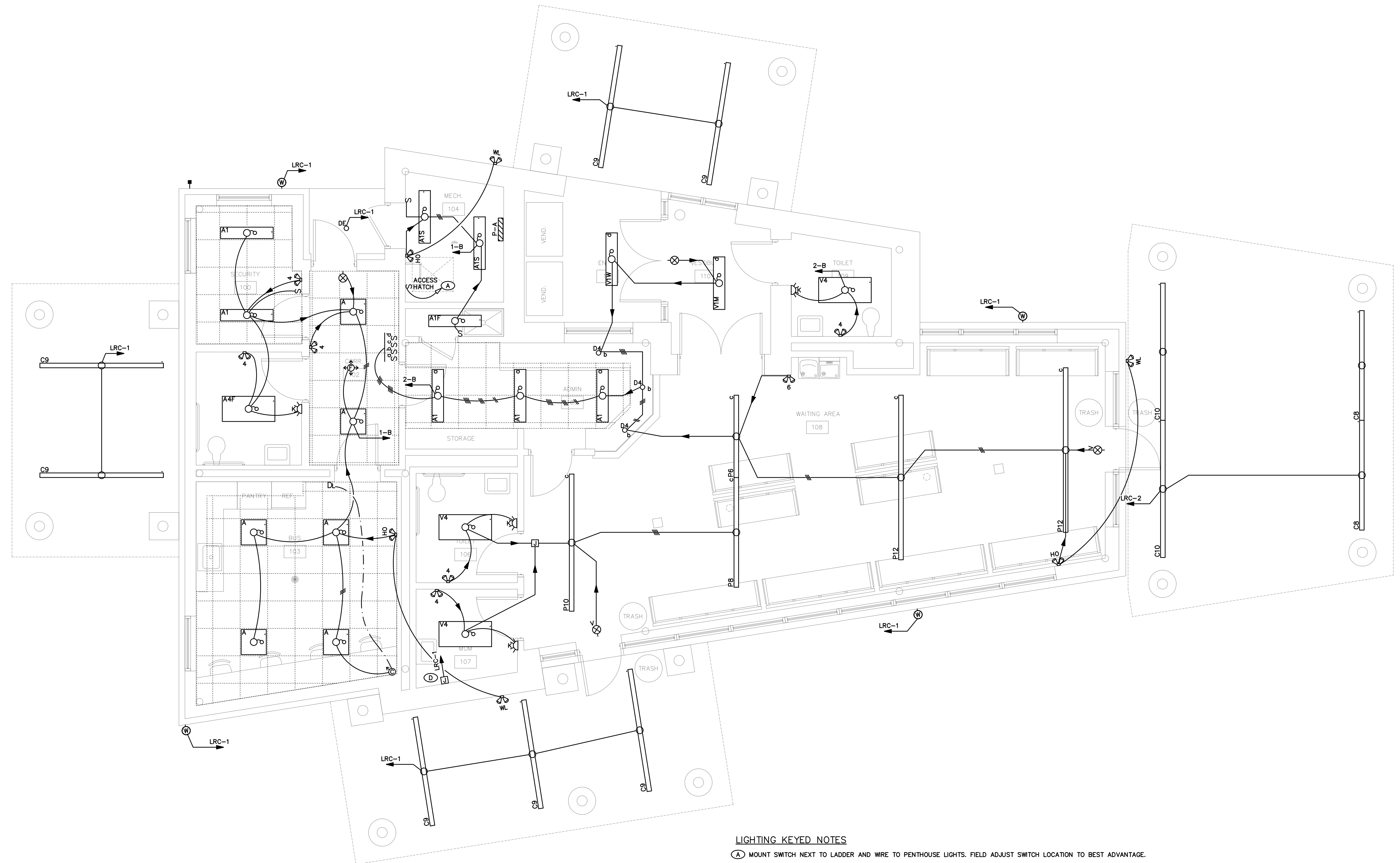
PANEL SCHEDULE

PANEL ID		TYPE: -	AMPS: -	MAIN: -	MOUNTING: -	VOLTS L-L: 208	PHASE: 3											
LP-B		LOCATION: -					VOLTS L-G: 120	WIRE: 4										
BRKR		DESCRIPTION	CIR VA	HE TYP	CIR NO.	LOAD	CIR NO.	HE TYP	CIR VA	DESCRIPTION	BRKR							
A	P					A B C					P A							
20	1	LTG - SEC, BUS, CORR	1021	L	1	2115			2	L	1094	LTG - WAITING, RR, ENTRY	1	20				
15	1	PUMP P-3	528	M	3	1056			4	M	528	PUMP P-2	1	15				
20	1	EF-1, UH-2, PP-1	477	H	5		1077		6	R	600	RECP - PENTHOUSE	1	20				
15	1	BOILER B-1	120	M	7	360			8	M	240	PUMP P-1	1	15				
15	1	BOILER B-3	120	M	9		1776		10	M	1656	PUMP P-5	1	30				
15	1	BOILER B-2	120	M	11		1776		12	M	1656	PUMP P-4	1	30				
20	1	RECP-WATER LEAK DETECTOR	200	R	13	1412			14	H	1212	HRU-1	1	15				
20	1	ATC	500	O	15		1000		16	O	500	ATC	1	20				
20	1	ATC	500	O	17		1000		18	O	500	ATC	1	20				
20	1	ADA DOOR OPENER	500	O	19	1500			20	O	1000	ADA DOOR OPENER	1	20				
20	1	RECP - ROOF	400	R	21		900		22	O	500	ADA DOOR OPENER	1	20				
20	1	SPARE	0	S	23		600		24	R	600	TICKET KIOSK	1	20				
20	1	SPARE	0	S	25	0			26	S	0	SPARE	1	20				
20	1	SPARE	0	S	27	0			28	S	0	SPARE	1	20				
15	2	DSS-4,5A,5B,5C	416	M	29		2666		30	H	2250	HOT WATER HEATER	2	30				
-	-		416	M	31	2666			32	H	2250	-	-	-				
40	2	ACCU-2	3744	M	33		6916		34	M	3172	ACCU-1	2	40				
-	-		3744	M	35		6916		36	M	3172	-	-	-				
25	3	PUMP P-6	1273	M	37	2546			38	M	1273	PUMP P-7	3	25				
-	-		1273	M	39	2546			40	M	1273	-	-	-				
-	-		1273	M	41		2546		42	M	1273	-	-	-				
PHASE TOTALS			10599		14194	16581												
CONNECTED VA :			41374			CONNECTED AMPS :			114									
CIRCUIT TYPE (CODE):												LIGHTS (L)	RECEPTACLE (R)	MOTOR (M)	HEAT (H)	OTHER (O)	SPARE (S)	DISTRIB (D)

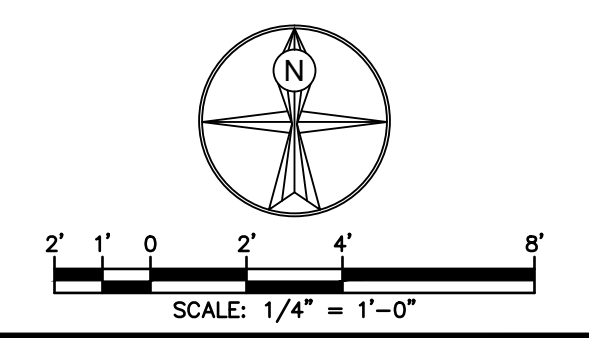
LIGHTING CONTROL SCHEDULE (LRC)

RELAY #	LOAD SERVED	PNL/BD CKT	TIME CLOCK CONTROL		PHOTOCELL CONTROL		REMARKS
			ON	OFF	ON	OFF	
1	NORTH, WEST, SOUTH CANOPIES, BLDG MOUNTED LIGHTS	1-B		X	X		
2	EAST CANOPY, POLE LIGHTS	2-B		X	X		
3	DOCK SIGN LIGHTS, DIGITAL DOCKING SIGNS	2-B	X	X			
4	TICKET KIOSK	24-B	X	X			
5	DIGITAL SIGN SCHEDULE (FUTURE)						
6	SPARE						
7	SPARE						
8	SPARE						





- LIGHTING KEYED NOTES**
- (A) MOUNT SWITCH NEXT TO LADDER AND WIRE TO PENTHOUSE LIGHTS. FIELD ADJUST SWITCH LOCATION TO BEST ADVANTAGE.
 - (B) WIRE DOWN TO SWITCH IN MECHANICAL ROOM.
 - (C) SEE LIGHTING RELAY SCHEDULE ON DRAWING E601 FOR EXTERIOR LIGHTING CONTROL CIRCUITS.
 - (D) VERIFY LOCATIONS AND POWER REQUIREMENTS FOR BUILDING MOUNTED SIGNS PRIOR TO ROUGH-IN, COORDINATE WITH SIGN INSTALLER.



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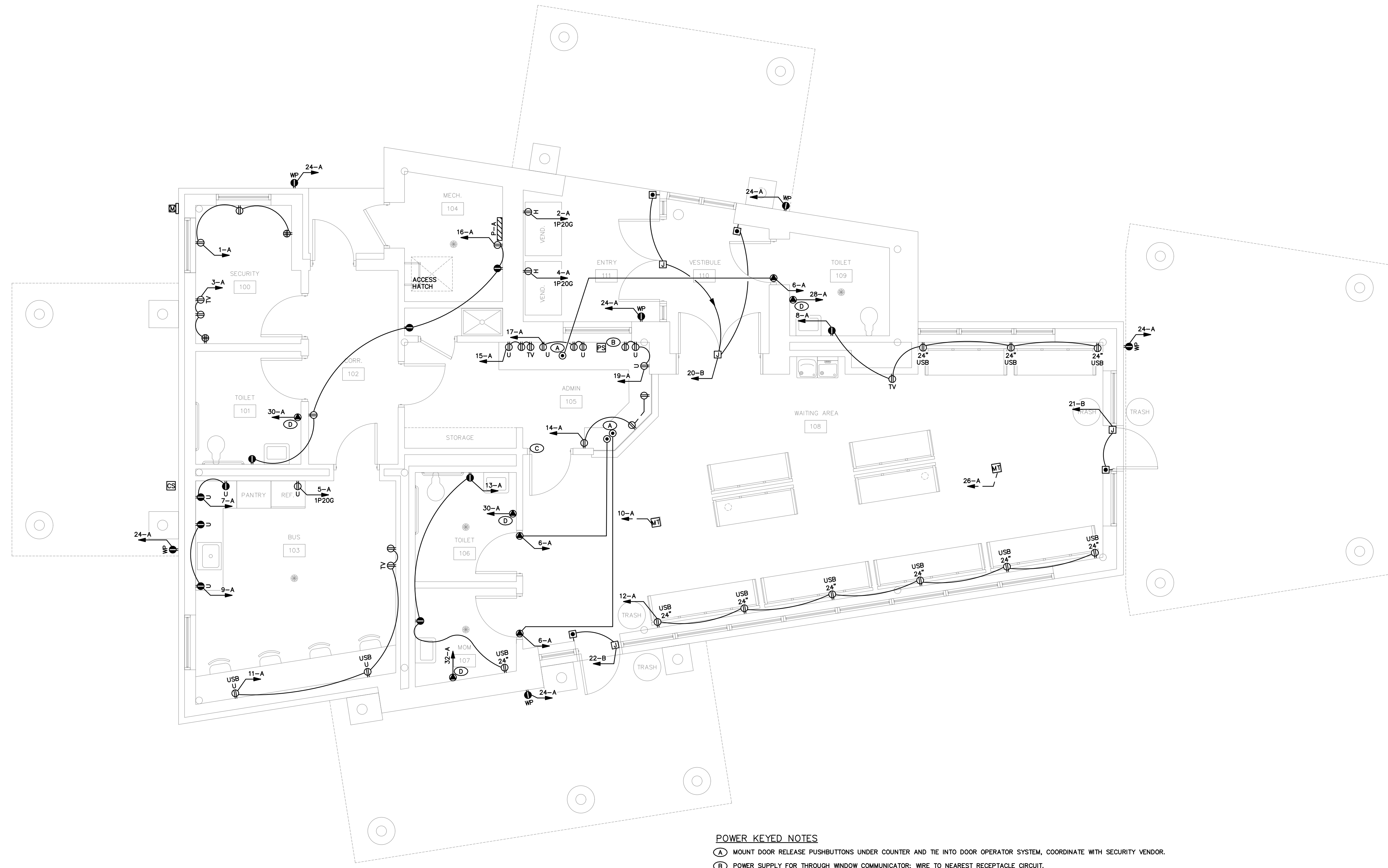
LIGHTING PLAN

PROJ. NUMBER:	2020115 / 21002
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DRAWN BY:	ELHICCH
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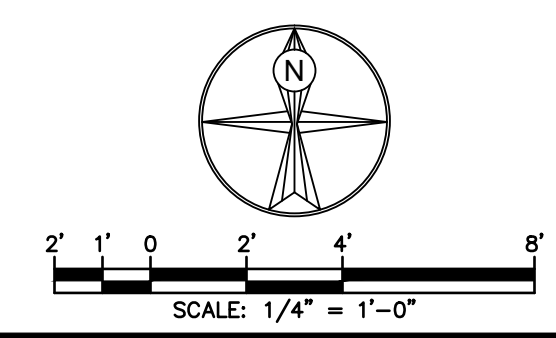
DATE: MAY 12, 2021

EL100



POWER KEYED NOTES

- (A) MOUNT DOOR RELEASE PUSHBUTTONS UNDER COUNTER AND TIE INTO DOOR OPERATOR SYSTEM, COORDINATE WITH SECURITY VENDOR.
- (B) POWER SUPPLY FOR THROUGH WINDOW COMMUNICATOR; WIRE TO NEAREST RECEPTACLE CIRCUIT.
- (C) DOOR SHALL BE EQUIPPED WITH PANIC BARS, PRESSURE PLATES, OR OTHER DEVICES THAT ARE NORMALLY LATCHED BUT OPEN UNDER SIMPLE PRESSURE.
- (D) PROVIDE POWER FOR HAND DRYER, COORDINATE WITH EQUIPMENT INSTALLER.



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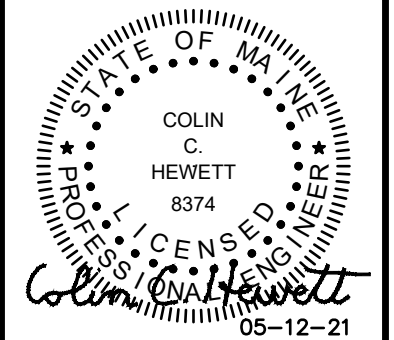
POWER PLAN

PROJ. NUMBER:	2020115 / 21002
REV.	DATE
DRAWN BY:	ELHICCH
DESCRIPTION	

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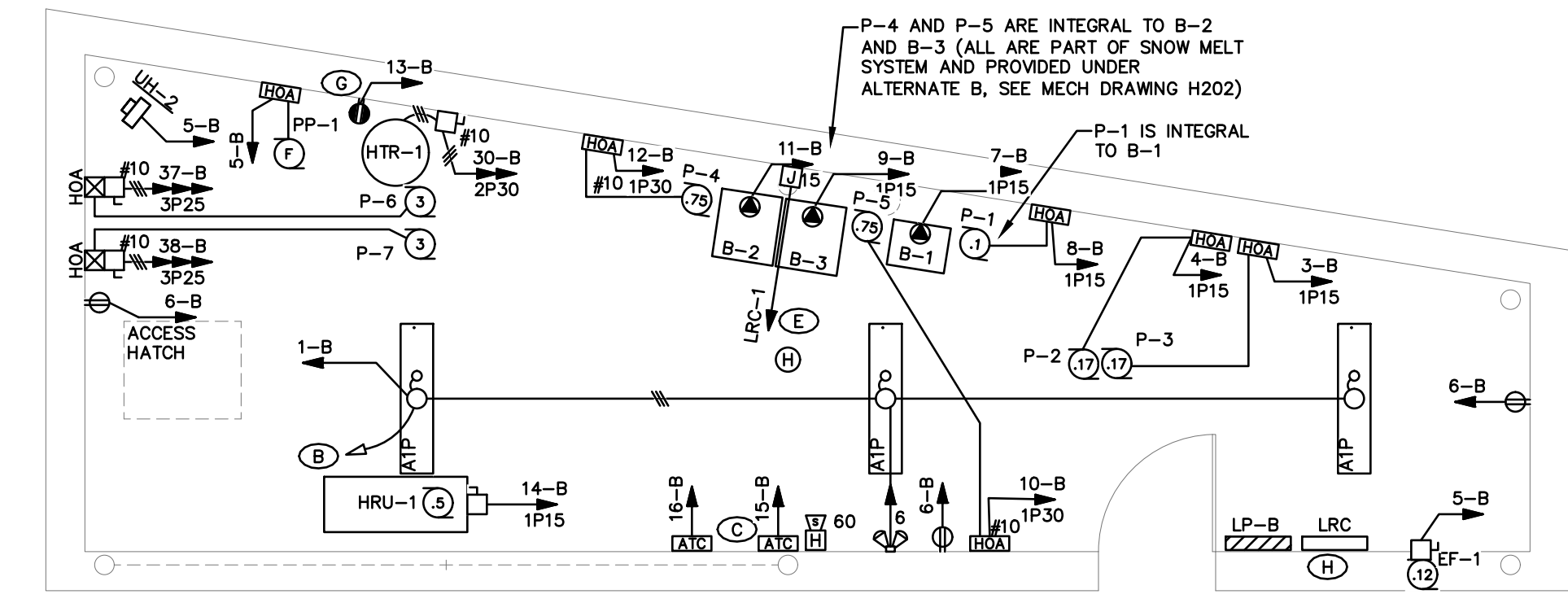
MECHANICAL POWER PLAN

PROJ. NUMBER: 2020115 / 21002
DRAWN BY: EL/HCH
REV. DATE DESCRIPTION

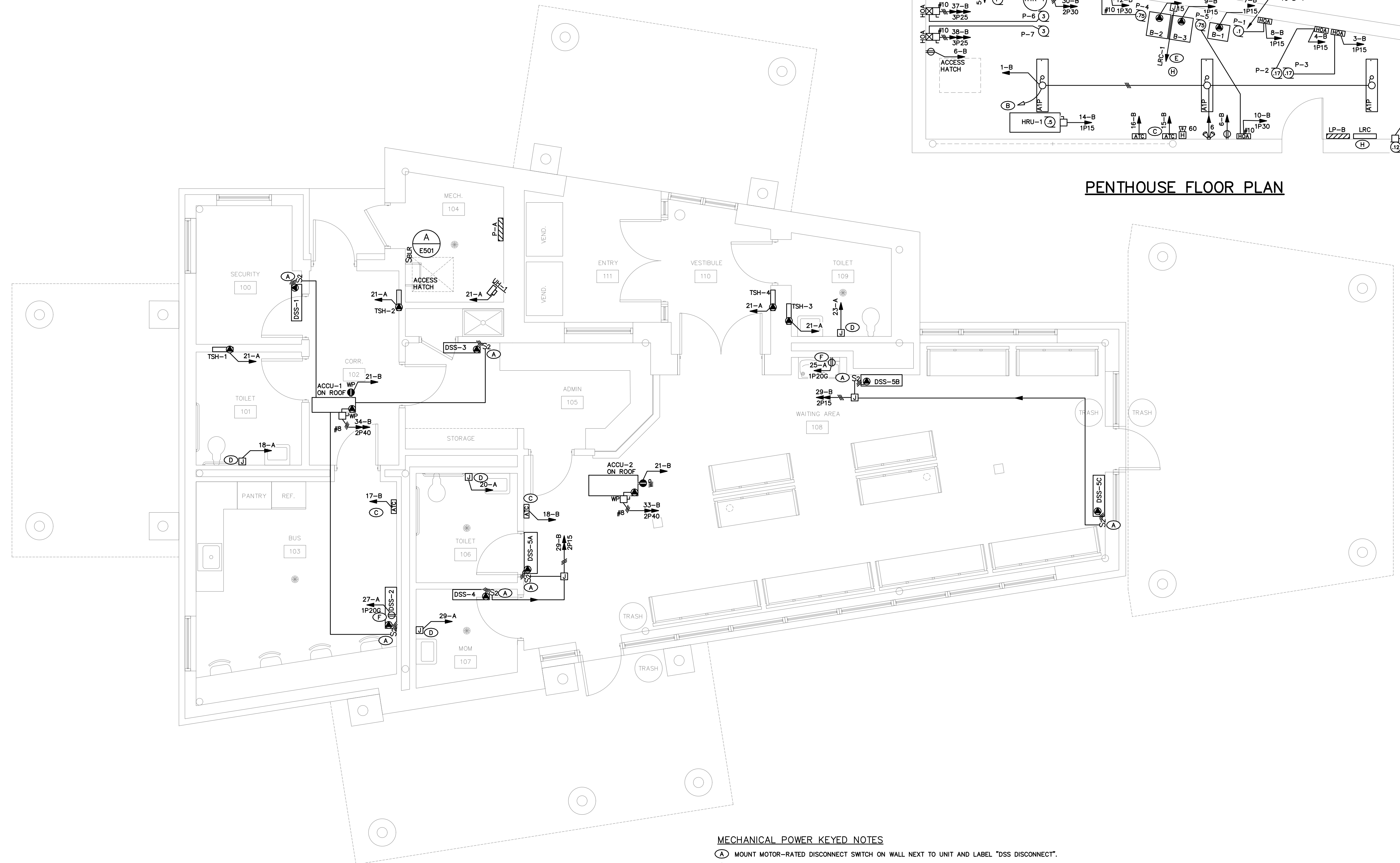
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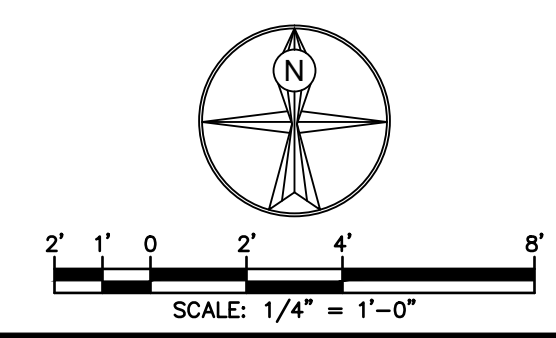


PENTHOUSE FLOOR PLAN

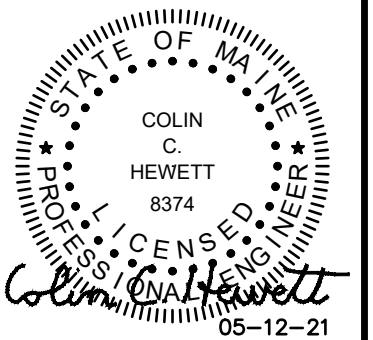


MECHANICAL POWER KEYED NOTES

- (A) MOUNT MOTOR-RATED DISCONNECT SWITCH ON WALL NEXT TO UNIT AND LABEL "DSS DISCONNECT".
- (B) MOUNT MOTOR-RATED DISCONNECT SWITCH ABOVE CEILING ON OR NEAR UNIT TO BEST ADVANTAGE.
- (C) ATC CONTROL CIRCUIT, VERIFY LOCATION WITH CONTROLS CONTRACTOR.
- (D) 120V TO TRANSFORMER FOR AUTOMATIC PLUMBING FIXTURES (ONE TRANSFORMER FOR UP TO TEN TOILETS OR URINALS, OR ONE TRANSFORMER FOR TWO LAVATORIES); COORDINATE WITH PLUMBING CONTRACTOR.
- (E) VERIFY LOCATIONS AND POWER REQUIREMENTS FOR BUILDING MOUNTED SIGNS PRIOR TO ROUGH-IN, COORDINATE WITH SIGN INSTALLER.
- (F) COORDINATE LOCATION AND POWER REQUIREMENTS OF WATER COOLER WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- (G) COORDINATE WIRING AND ELECTRICAL REQUIREMENTS OF WATER HEATER LEAK DETECTOR WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- (H) SEE LIGHTING RELAY SCHEDULE ON DRAWING E601 FOR EXTERIOR LIGHTING CONTROL CIRCUITS.



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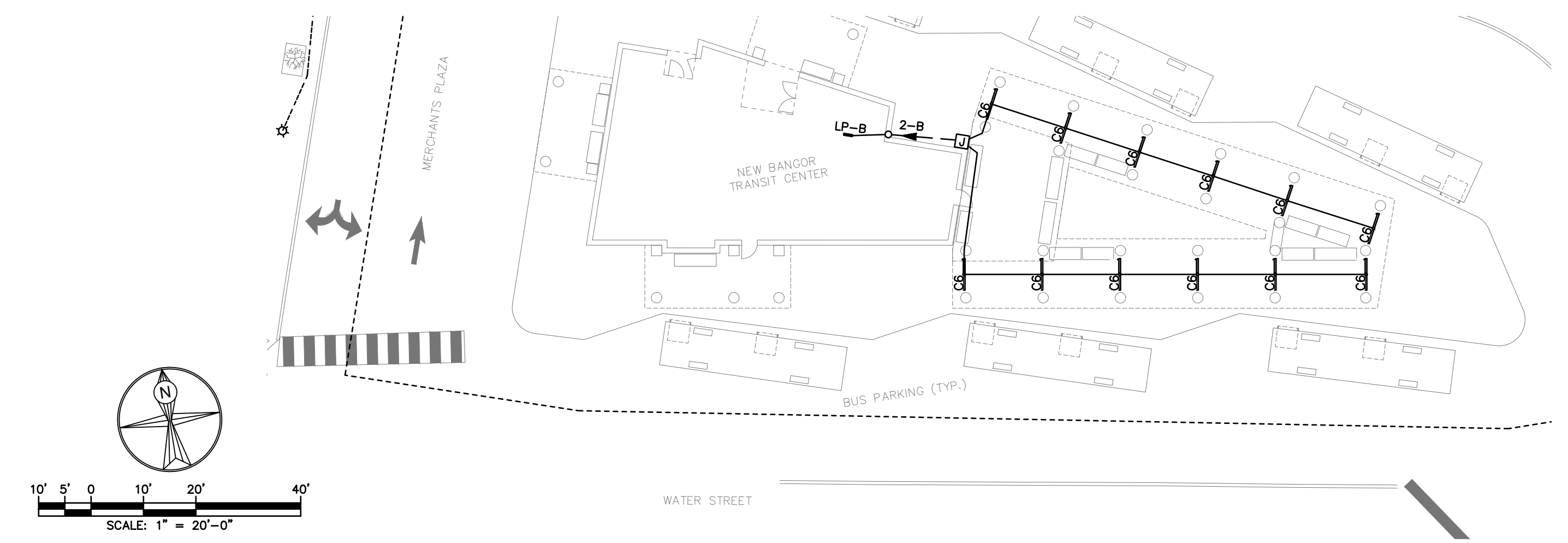
ELECTRICAL SITE PLANS

PROJ. NUMBER:	2020115 / 21002
DATE:	
REV.	
DRAWN BY:	ELHIEH
DESCRIPTION:	

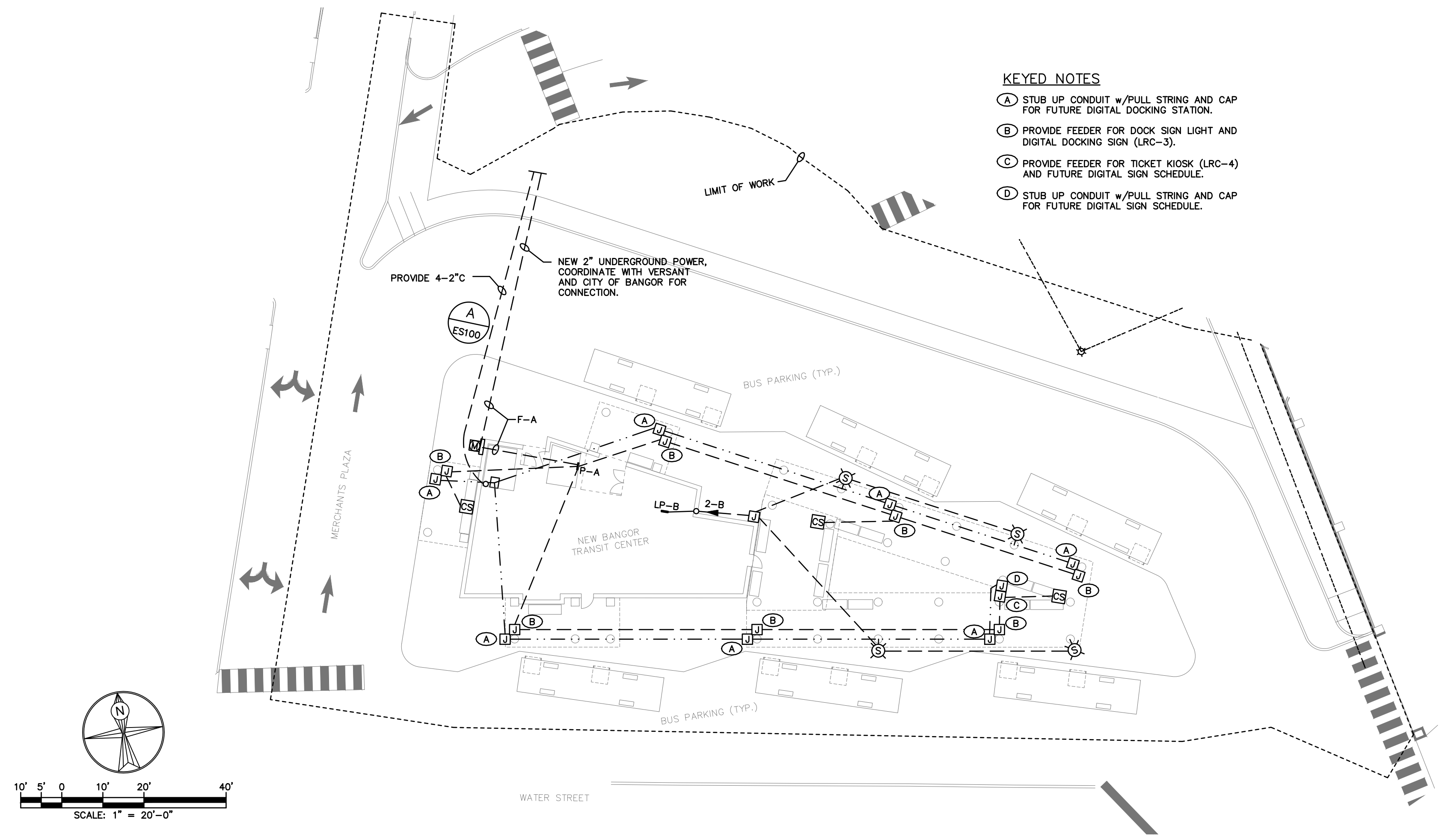
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ELECTRICAL SITE PLAN – ALTERNATE A



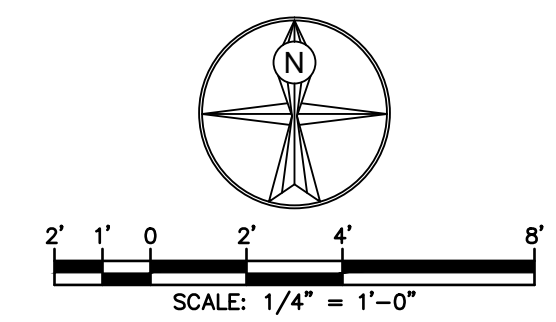
ELECTRICAL SITE PLAN – BASE BID

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SYSTEMS KEYED NOTES

- (A) DEDICATED DATA LINE (CONNECTED TO INTERNET) FOR DDC, COORDINATE WITH OWNER AND ATC CONTRACTOR.
- (B) PA SYSTEM SHOWN UNDER COUNTER, VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- (C) POLICE CALL PANIC BUTTON, COORDINATE WITH SECURITY VENDOR.
- (D) SURFACE MOUNT SPEAKERS IN THIS AREA.



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SYSTEMS PLAN

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REV. DATE DESCRIPTION

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EY300

PLUMBING WASTE & VENT PLAN

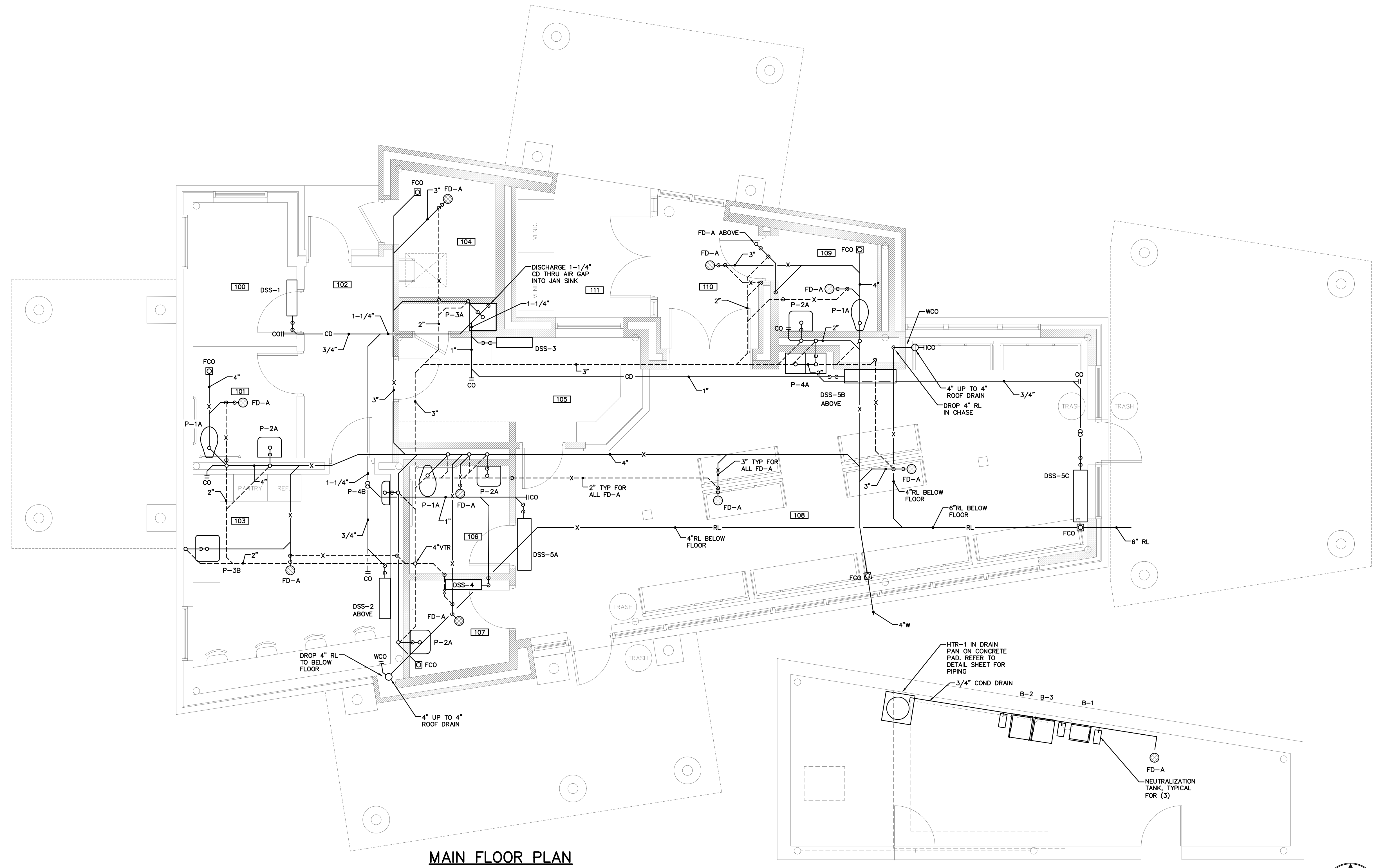
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REV. DATE

DRAWN BY: KWW, GRL
DESCRIPTION

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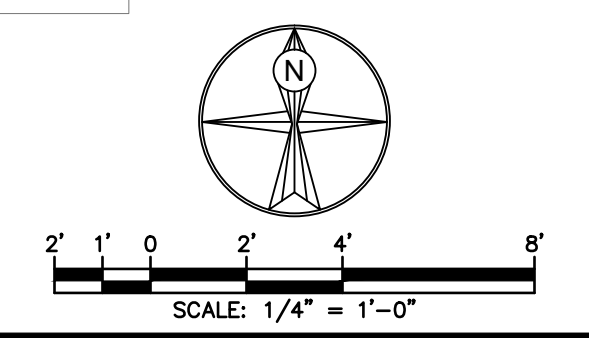
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P100



MAIN FLOOR PLAN

PENTHOUSE FLOOR PLAN

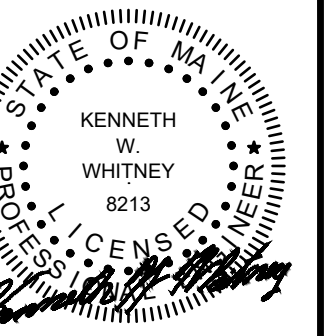


Hewett & Whitney
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PLOT DATE: May 10, 2021

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128 Broadway
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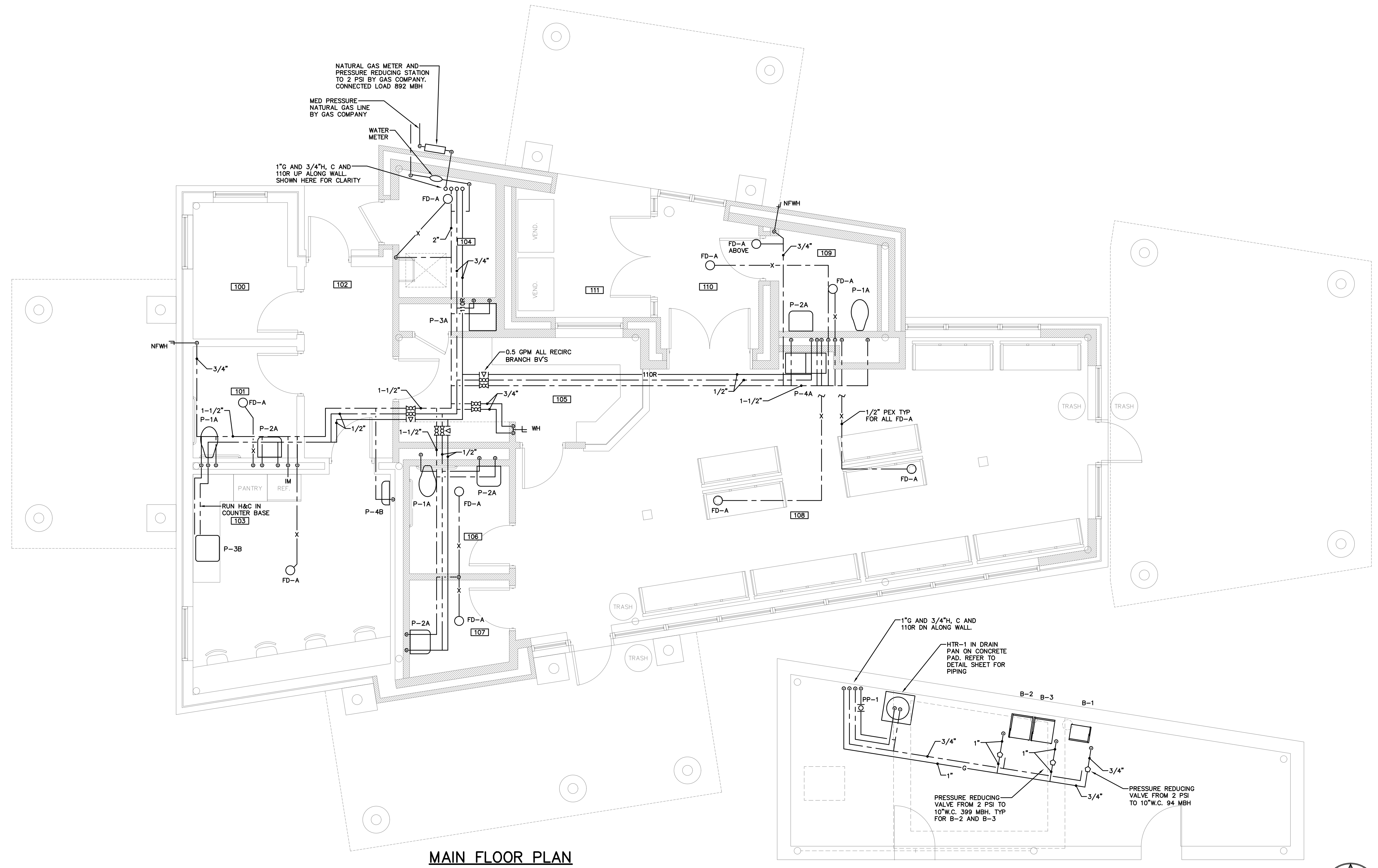
PLUMBING HOT & COLD PLAN

PROJ. NUMBER: 2020115 / 21002
DRAWN BY: KWW, GRL
DESCRIPTION:

**CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME**

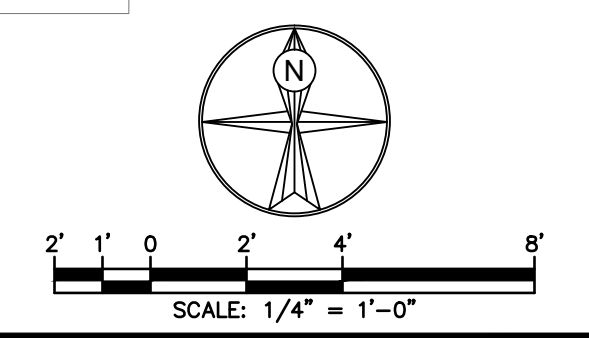
DATE: APRIL 12, 2021

P101



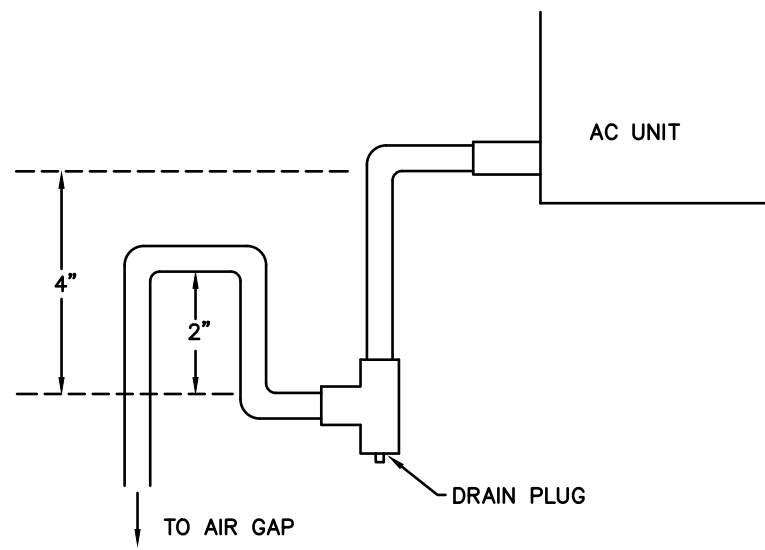
MAIN FLOOR PLAN

PENTHOUSE FLOOR PLAN

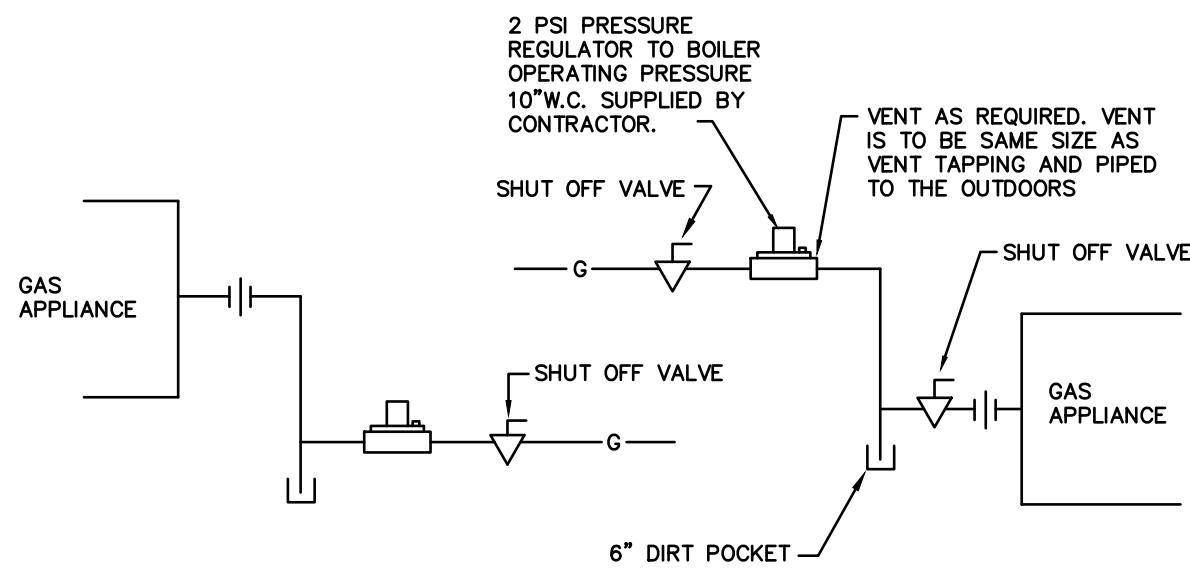


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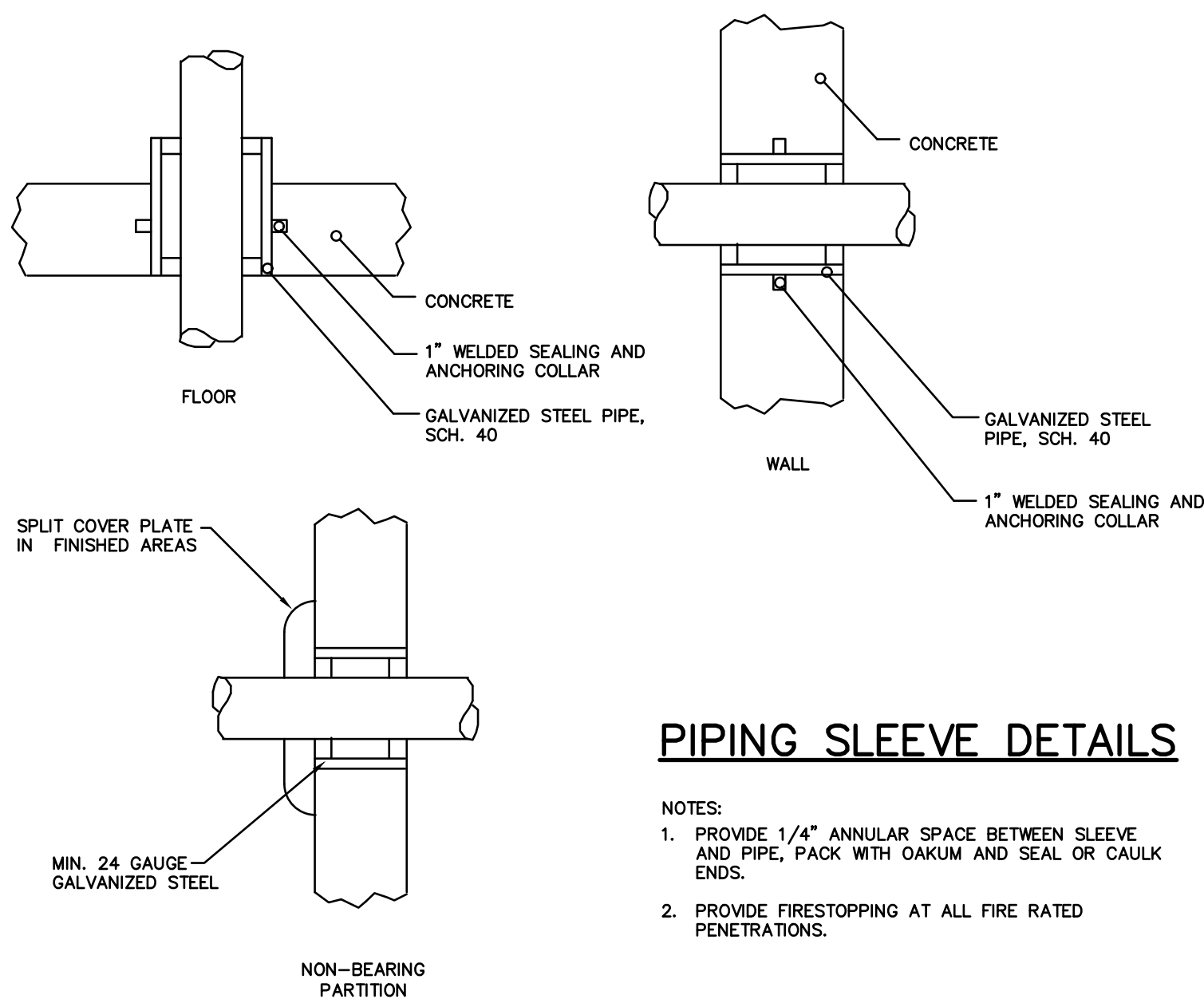
CONDENSATE TRAP DETAIL
NTS



UPFEED DOWNFEED

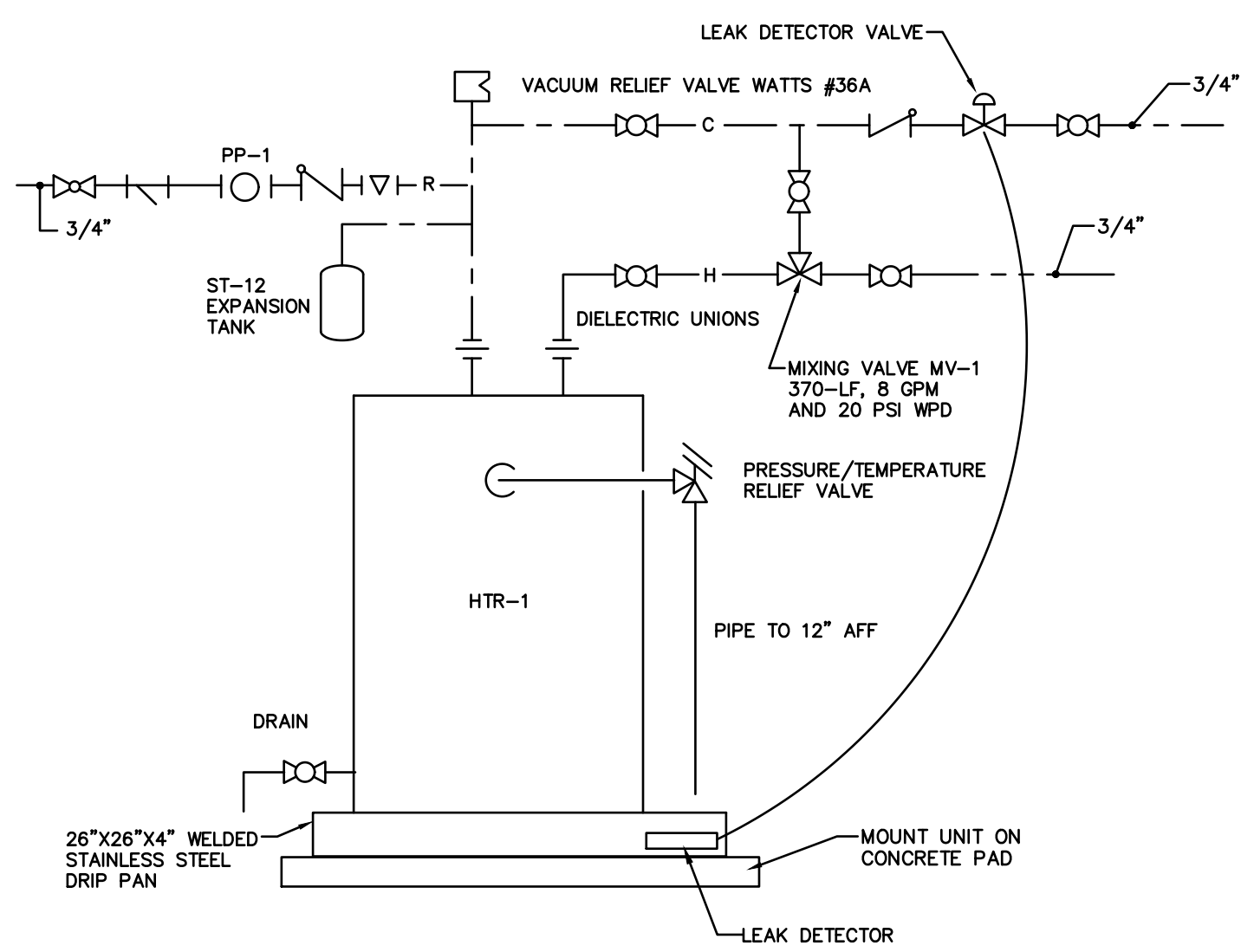
2 PSI GAS PIPING DETAIL
NTS

- NOTES:
1. PROVIDE UNIONS AND REDUCERS AT HEATERS/APPLIANCES.
 2. CONTRACTOR SHALL VERIFY ALL GAS PIPING REQUIREMENTS WITH THE BOILER MANUFACTURER PRIOR TO INSTALLATION INCLUDING THE PRESSURE, SIZE AND REQUIRED DISTANCE FROM THE BOILER FOR INSTALLATION.

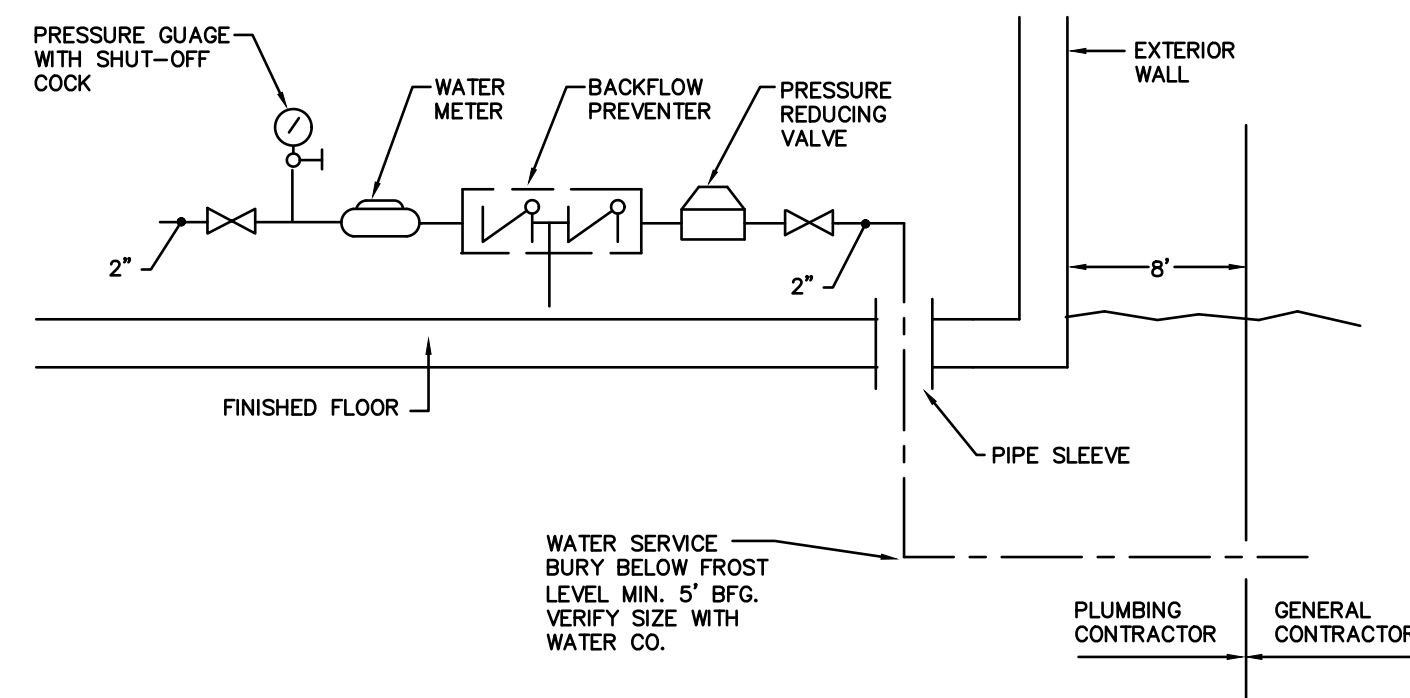


PIPING SLEEVE DETAILS

- NOTES:
1. PROVIDE 1/4" ANNULAR SPACE BETWEEN SLEEVE AND PIPE, PACK WITH OAKUM AND SEAL OR CAULK ENDS.
 2. PROVIDE FIRESTOPPING AT ALL FIRE RATED PENETRATIONS.



DHW HEATER HTR-1 DETAIL
NTS



WATER SERVICE ENTRANCE DETAIL
NO SCALE

- NOTES:
1. WATER METER TO BE SUPPLIED BY WATER COMPANY AND INSTALLED BY PLUMBING CONTRACTOR.
 2. WATER METER SPECIFICATIONS
SIZE 2"
PEAK FLOW 47 GPM
MAX. PRESSURE DROP (PSI) 2 PSI
MIN. INLET PRESSURE (PSI) 70 PSI
 3. BACKFLOW PREVENTER SPECIFICATIONS
TYPE 007 DOUBLE CHECK
SIZE 2"
PRESSURE DROP 6 PSI
 4. PRV SPECIFICATIONS
MODEL # LF223
SIZE 2"
PRESSURE DROP 8 PSI
 5. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THE WATER PRESSURE AVAILABLE PRIOR TO INSTALLATION.

FIXTURE SCHEDULE							
UNIT	DESCRIPTION	MIN. LINE SIZE (IN.)					NOTES
		W	V	H	C	G	
P-1A	ADA WALL MOUNTED VALVE WC	4	2	-	1	-	2
P-2A	ADA WALL LAVATORY	1-1/4	1-1/4	1/2	1/2	-	2
P-3A	MOP SINK	3	1-1/2	1/2	1/2	-	-
P-3B	ADA SINGLE SINK	2	1-1/2	1/2	1/2	-	-
P-4A	BI LEVEL ADA BOTTLE FILL STATION	1-1/4	1-1/4	-	1/2	-	-
P-4B	ADA BOTTLE FILL STATION	1-1/4	1-1/4	-	1/2	-	-
NFWH	NONFREEZE WALL HYDRANT	-	-	-	3/4	-	-
WH	INTERIOR H&C WALL HYDRANT	-	-	3/4	3/4	-	-
FD-A	FLOOR DRAIN	3	2	-	-	-	1
IM	ICE MACHINE	1	-	-	1/2	-	3,4

- NOTES:
1. PROVIDE SHUT OFF VALVES IN H & C LINES TO ALL FIXTURES/APPLIANCES
 2. PROVIDE TRAP PRIMER CONNECTION AND 1/2" PEX PIPE TO NEAREST SINK
 3. PROVIDE ELECTRONIC CONTROLS
 4. PROVIDE IN LINE FILTER FOR ICE MACHINE AT REFRIGERATOR
 5. FURNISHED BY OTHERS

DHW HEATER (HTR)								
UNIT	INPUT (MBH)	RECOV (GPH)	FUEL	MODEL #	STOR (GAL)	KW	POWER	NOTES
HTR-1	15.3	18.4	HYB	-	40	4.5	208/1	1,2,3

- NOTES:
1. BASED ON RHEEM MODEL PROPH40 T2 RH375-S0 ELECTRIC/HEAT PUMP UNIT.
 2. RECOVERY BASED ON 100F WTR.
 3. PROVIDE LEAK DETECTOR ND SHUT-OFF VALVE KIT OPTION

PUMP SCHEDULE (P)											
UNIT	LOC.	SYS.	MODEL	TYPE	GPM		TDH (FT)	HP	RPM	POWER	NOTES
					BV	PUMP					
PP-1	BLR RM	110° F RECIR	008-BF	IL	1.5	4	14	1/25	3250	115	1,2

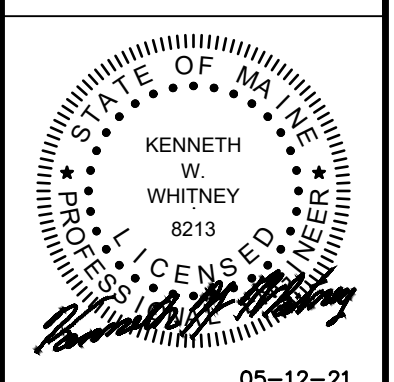
- NOTES:
1. BASED ON TACO
 2. BRONZE OR SS UNIT

PLUMBING LEGEND

- X — SANITARY SOIL OR WASTE – ABOVE FLOOR
- RL — SANITARY SOIL OR WASTE – UNDER FLOOR
- VENT
- ROOF LEADER
- X—RL— UNDERFLOOR ROOF LEADER
- 110R — 110° HOT WATER LINE
- 140 — 140° HOT WATER RECIRCULATION LINE
- 140R — 140° HOT WATER LINE
- 140R — 140° HOT WATER RECIRCULATION LINE
- 160 — 160° HOT WATER LINE
- 160R — 160° HOT WATER RECIRCULATION LINE
- CD — CONDENSATE DRAIN
- X—GR— UNDERFLOOR GREASE WASTE
- G — COLD WATER
- G — GAS LINE
- 3"/1/4" — PIPE SIZE / SLOPE PER FOOT
- R — PIPE RISER
- D — PIPE DROP
- U — UNION
- G — GATE VALVE
- C — CHECK VALVE
- B — BALL VALVE
- BV — BALANCING VALVE (BV)
- G — GAS PLUG VALVE
- P — PUMP
- T — THERMOMETER/THERMOWELL
- C — PRESSURE GAGE WITH SHUT-OFF COCK
- S — SPRINKLER
- R — PRESSURE RELIEF VALVE
- FD — FLOOR DRAIN
- HB — HOSE BIBB (HB)
- NFWH — NON-FREEZE WALL HYDRANT (NFWH)
- TIE — TIE INTO EXISTING SYSTEM
- EX — EXISTING EQUIPMENT TO BE REMOVED
- AFF — ABOVE FINISHED FLOOR
- CD — ABOVE FINISHED GRADE
- CD — CONDENSATE DRAIN
- EX — EXISTING EQUIPMENT
- FC — FLOOR CLEANOUT
- FE — FIRE EXTINGUISHER – WEIGHT (LB)
- H & C — HOT AND COLD
- INV — INVERT ELEVATION
- NIC — NOT IN CONTRACT
- NTS — NOT TO SCALE
- SA — SHOCK ABSORBER
- VTR — VENT THROUGH ROOF
- W & V — WASTE AND VENT
- WCO — WALL CLEANOUT



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PLUMBING SCHEDULES & DETAILS

PROJ. NUMBER: 2020115 / 21002

DATE: _____

DESCRIPTION: _____

DRAWN BY: KWM/GR

DATE: _____

CITY OF BANGOR
BANGOR TRANSPORTATION CENTER
PICKERING SQUARE, BANGOR, ME

DATE: APRIL 12, 2021

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