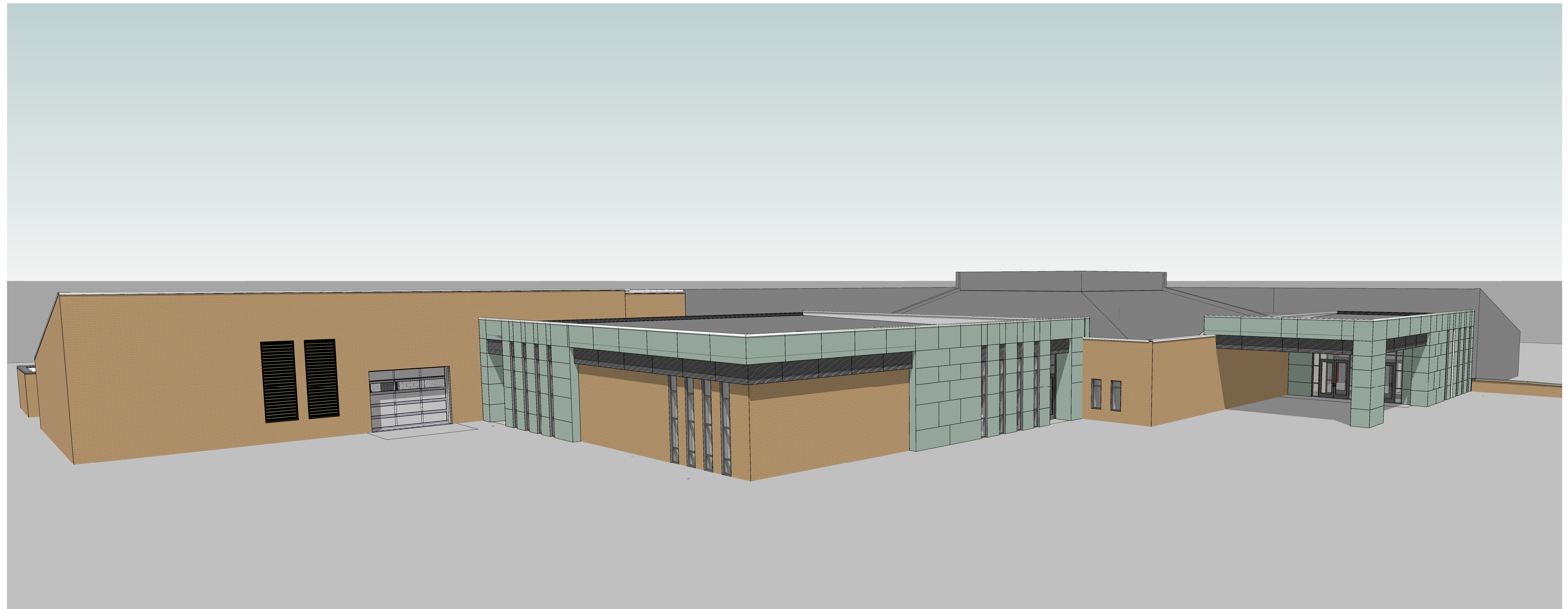


PORTER COUNTY ANNEX

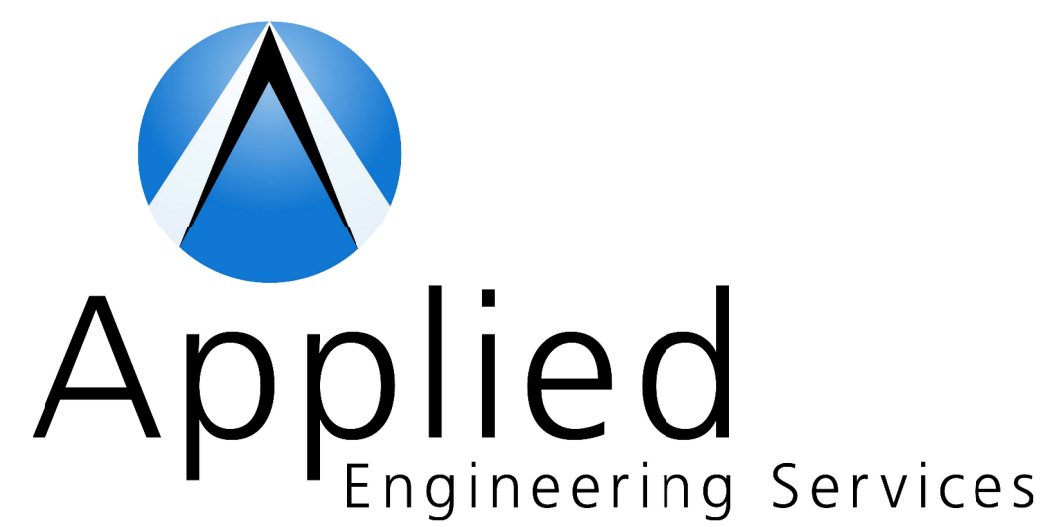
3560 WILLOWCREEK RD PORTAGE, IN 46368

100% CONSTRUCTION DOCUMENTS - BP1

08.20.18



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ABBREVIATIONS			
A		G	ORIG ORIGINAL
A/E	ARCHITECT/ENGINEER	GALV	GALVANIZED
ACOUS	ACOUSTICAL	GLZ	GLAZING
ACT	ACOUSTICAL CEILING TILE	GUT	GUTTER
ADA	AMERICAN'S WITH DISABILITIES ACT	GYP BD/GWB	GYP SUM BOARD
ADD	ADDENDUM	H	HANDICAP(PED)
ADJ	ADJACENT	HC	HOLLOW CORE WOOD
AFF	ABOVE FINISH FLOOR	HCW	HOLLOW CORE WOOD
ALT	ALTERNATE	HDW/HDW	HARDWARE
ALUM	ALUMINUM	HM	HOLLOW METAL
ANOD	ANODIZED	HMD	HOLLOW METAL DOOR
ARCH	ARCHITECT (URAL)	HORIZ	HORIZONTAL
B		HT	HEIGHT
BLDG	BUILDING	HEATING	HEATING
BLK	BLOCK	HVAC	VENTILATION, AIR CONDITIONING
BLKG	BLOCKING		
BM	BEAM		
BOT	BOTTOM		
BRG	BEARING		
C			
C/C	CENTER TO CENTER	INCAND	INCANDESCENT
CAB	CABINET	INDIC	INDICATE
CB	CORNER BEAD	INSTL	INSTALLATION
CER	CERAMIC	INSUL	INSULATION
CF	CUBIC FOOT	INT	INTERIOR
CFCI	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED	J	JOIST
CHAN	CHANNEL	JST	JOIST
CJ	CONTROL JOINT	JT	JOINT
CL	CENTER LINE		
CLG	CEILING	L	LOAD BEARING
CMU	CONCRETE MASONRY UNIT	LAV	LAVATORY
CONC	CONCRETE CONSTRUCTION	LD BRG	LOAD BEARING
CONSTR	CONSTRUCTION	LF	LINEAR FOOT
CONT	CONTINUOUS	LTG	LIGHTING
CP/CPCT	CARPET	LWT	LIGHTWEIGHT
D		LVR	LOUVER
DEMO	DEMOLITION (ISH)	M	MASONRY
DF	DRINKING FOUNTAIN	MATL	MATERIAL
DIFF	DIFFUSER	MAX	MAXIMUM
DIM	DIMENSION	MECH	MECHANICAL
DISP	DISPENSER	MED	MEDICINE (MEDICAL)
DO	DOOR OPENING	MET	METAL
DOWNSPOUT	DOWNSPOUT	MFG	MANUFACTURER (ING)
DWG	DRAWING	MIN	MINIMUM
E		MISC	MISCELLANEOUS
EJ	EXPANSION JOINT	MILWK	MILLWORK
ELEC	ELECTRICAL (ELEVATOR)	MO	MASONRY OPENING
ELEV	ELEVATION	MTD	MOUNTED
ENCL	ENCLOSURE	MTG	MOUNTING
ENGR	ENGINEER	MULL	MULLION
EQUIP	EQUIPMENT	MULT	MULTIPLE
EWC	ELECTRICAL WATER COOLER	N	NOT APPLICABLE
EXST	EXISTING	N/A	NOT IN CONTRACT
F		NIC	NOMINAL
F/F	FACE TO FACE	NTS	NOT TO SCALE
FDN	FOUNDATION	O	OUT TO OUT
FE	FIRE EXTINGUISHER	OA	OVERALL
FHC	FIRE HOSE CABINET	OC	ON CENTER
FIN	FINISH	OD	OUTSIDE DIAMETER
FIN FL	FINISHED FLOOR (FLOORING)	OF	OUTSIDE FACE
FLR (FLRG)	FLUORESCENT	OFI	OWNER FURNISHED - CONTRACTOR INSTALLED
FLUOR	FLUORESCENT	OH	OVERHEAD
FOC	FACE OF CONCRETE	OPNG	OPENING
FOF	FACE OF FINISH	OPP	OPPOSITE
FOM	FACE OF MASONRY	OPT	OPTIONAL
FOS	FACE OF STUD	ORD	OVERFLOW ROOF DRAIN
FR	FIRE RATING		
FT	FIRE TREATED		
FTG	FOOTING		
FURN	FURNITURE		
FURR	FURRING		

SHEET INDEX				
SHEET NUMBER	SHEET NAME	CURR REV	REV DATE	REV DESCR
GENERAL				
G000	COVER SHEET			
G001	SHEET INDEX			
CIVIL				
C002	GENERAL NOTES			
C100	OVERALL EXISTING TOPOGRAPHY PLAN			
C110	DEMOLITION PLAN			
C200	OVERALL SITE PLAN			
C201	SITE PLAN			
C301	GRADING PLAN			
C302	FLOOD ROUTING PLAN			
C310	STORM SEWER PLAN AND PROFILES			
C311	STORM SEWER PLAN AND PROFILES			
C312	STORM SEWER PLAN AND PROFILES			
C313	STORM SEWER PLAN AND PROFILES			
C401	UTILITY PLAN			
C501	EROSION CONTROL PLAN			
C510	STORM WATER POLLUTION PREVENTION PLAN			
C520	EROSION CONTROL DETAILS			
C521	EROSION CONTROL DETAILS			
C600	SITE DETAILS			
C601	SITE DETAILS			
C602	SITE DETAILS			
C610	CITY OF PORTAGE STANDARD DETAILS			
C611	IAWC WATER INSTALLATION DETAILS AND NOTES			
C612	IAWC WATER INSTALLATION DETAILS AND NOTES			
L100	LANDSCAPE PLAN			
L200	LANDSCAPE DETAILS			
STRUCTURAL				
S001	ABBREVIATIONS AND SYMBOLS			
S002	GENERAL NOTES			
S003	SPECIAL INSPECTION REQUIREMENTS			
S004	LOAD MAPS			
S101A	FOUNDATION PLAN - AREA A			
S101B	FOUNDATION PLAN - AREA B			
S131A	ROOF FRAMING PLAN - AREA A			
S131B	ROOF FRAMING PLAN - AREA B			
S301	FOUNDATION SCHEDULES, SECTIONS, AND DETAILS			
S302	FOUNDATION SECTIONS AND DETAILS			
S303	FOUNDATION SECTIONS AND DETAILS			
S310	ENLARGED PIER DETAILS			
S401	CMU SCHEDULES, SECTIONS, AND DETAILS			
S501	STEEL SCHEDULES, SECTIONS, AND DETAILS			
S502	STEEL SECTIONS AND DETAILS			
S503	STEEL SECTIONS AND DETAILS			
S511	STEEL COLUMN AND BASE PLATE SCHEDULES			
S521	STEEL FRAME ELEVATIONS			
S522	STEEL FRAME ELEVATIONS			
S531	STEEL FRAME SECTIONS AND DETAILS			
ARCHITECTURAL DEMOLITION				
D101-BP1	FIRST FLOOR DEMOLITION PLAN			
ARCHITECTURAL				
A001	WALL TYPES			
A100-BP1	FIRST FLOOR PLAN - OVERALL			
A101.A-BP1	FIRST FLOOR PLAN - AREA A			
A101.B-BP1	FIRST FLOOR PLAN - AREA B			
A130	ROOF PLAN - OVERALL			
A131.A	ROOF PLAN - AREA A			
A131.B	ROOF PLAN - AREA B			
A201	EXTERIOR ELEVATIONS			
A202	EXTERIOR ELEVATIONS			
A301	BUILDING SECTIONS			
A302	BUILDING SECTIONS			
A321	WALL SECTIONS			
A322	WALL SECTIONS			
A323	WALL SECTIONS			
A324	WALL SECTIONS			
A325	WALL SECTIONS			
A326	WALL SECTIONS			
A327	WALL SECTIONS			
A328	WALL SECTIONS			
A411	DUMPSTER PLAN AND ELEVATIONS			
A412	COOLING TOWER ENCLOSURE PLAN AND ELEVATIONS			
A501	PLAN DETAILS			
A502	PLAN DETAILS			
A521	SECTION DETAILS			
A522	SECTION DETAILS			
A523	SECTION DETAILS			
A524	SECTION DETAILS			
A601	DOOR SCHEDULES			

GENERAL NOTES

- SEE SHEET G001 FOR GRAPHIC SYMBOL LEGEND.
- SEE SHEET A001 FOR GENERAL PARTITION NOTES.
- SEE SHEET A101 FOR GENERAL FINISH NOTES.
- COORDINATE WORK OF ALL TRADES PRIOR TO STARTING CONSTRUCTION.
- ALL DIMENSIONS ARE TO GRID LINES, FACE OF STUD FRAMING, FINISHED FACE OF EXISTING WALL SURFACE, OR FACE OF CONCRETE/MASONRY UNITS UNLESS NOTED OTHERWISE.
- THE CONTRACTOR AND SUBCONTRACTORS INVOLVED IN THIS PROJECT SHALL BE RESPONSIBLE FOR DESIGNING AND INSTALLING THEIR RESPECTIVE WORK AND SYSTEMS TO MEET ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, LAWS, SAFETY REGULATIONS, HAZARDOUS WASTE LAWS, ETC. THE CONTRACTOR SHALL FURNISH ALL NECESSARY PERMITS.
- THE CONTRACTOR SHALL REVIEW THE DRAWINGS AND UNDERSTAND THE SCOPE OF THE DRAWINGS TO BE THE FOLLOWING: THESE CONSTRUCTION DOCUMENTS (DRAWINGS, SPECIFICATIONS, ADDENDA, ETC.) INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF ARCHITECTURAL DESIGN CONCEPTS, THE DIMENSIONS OF THE BUILDING, THE MAJOR ARCHITECTURAL ELEMENTS, AND THE MAJOR STRUCTURAL, MECHANICAL, AND ELECTRICAL SYSTEMS. THE DOCUMENTS DO NOT AND ARE NOT INTENDED TO INDICATE OR DESCRIBE IN DETAIL ALL THE NECESSARY WORK REQUIRED FOR FULL PERFORMANCE OF AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT. ON THE BASIS OF THE GENERAL SCOPE INDICATED IN THESE DOCUMENTS, THE TRADE CONTRACTORS SHALL FURNISH ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THEIR WORK. ALL WORK SHALL BE COMPLETE IN EVERY DETAIL AND THE CONTRACTORS SHALL PROVIDE A ONE YEAR WARRANTY FOR THEIR WORK.
- CONTRACTORS SHALL FOLLOW AND OBEY ALL FEDERAL, STATE AND LOCAL CODES, LAWS, SAFETY REGULATIONS AND HAZARDOUS WASTE LAWS, ETC.
- DO NOT SCALE DRAWINGS. DIMENSIONS SHALL GOVERN EACH BUILDING COMPONENT LOCATION. BRING ANY DISCREPANCIES TO THE ARCHITECT'S ATTENTION IN WRITING IMMEDIATELY.
- BUILDING FIRST FLOOR IS REFERENCE ELEVATION 100'-0". REFERENCE CIVIL DRAWINGS FOR U.S.G.S. ELEVATION.
- ALL WORK SHALL BE PERFORMED IN A SKILLED WORKMANSHIP TYPE AND MANNER ACCEPTABLE TO THE ARCHITECT AND OWNER.
- CAULK INTERSECTION BETWEEN DIFFERENT MATERIALS.
- CAULK TOILET FIXTURES AND COUNTERTOP SPLASHES TO FINISH SURFACE IN ACCORDANCE WITH SEALANT SCHEDULE IN SPECIFICATIONS.
- EXISTING CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO BIDDING OR BEGINNING OF WORK. ANY ERRORS OR OMISSIONS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IN WRITING IMMEDIATELY.
- COVER ALL RETURN AIR AND EXHAUST GRILLES WITH FILTER MEDIA FOR DURATION OF JOB AND CHANGE REGULARLY.



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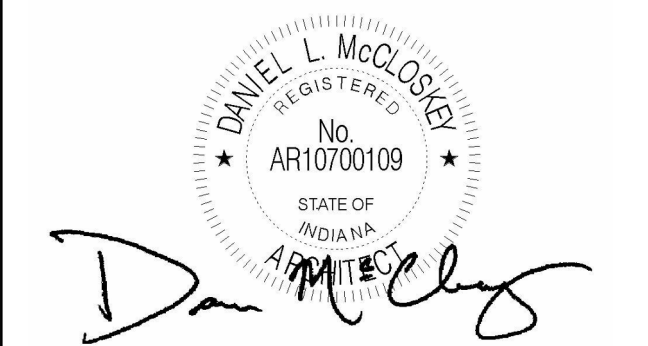
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PORTER COUNTY ANNEX

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PORTAGE, IN 46368



CERTIFIED BY

ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number **2017.01279**

SHEET INDEX

G001

MATERIALS LEGEND

	ACOUSTICAL CEILING TILE		GRATING (SECTION)
	AIR BARRIER SYSTEM		GYP SUM WALL BOARD
	BATT INSULATION THERMAL OR ACOUSTICAL, UNO		INSULATED GLASS (DETAIL)
	BRICK MASONRY		INSULATED GLASS (SMALL SCALE)
	CARPET, CARPET TILE (DETAIL)		MEMBRANE WATERPROOF ROOF, DAMPROOFING
	CONCRETE, CAST-IN-PLACE		METAL ROLLED SHAPES
	CONCRETE, PRECAST/CAST STONE		METAL TYPE AS NOTED
	CONCRETE MASONRY UNIT		PARTICLEBOARD
	EARTH		PLASTER ON METAL LATH
	EIFS		PLYWOOD
	GLASS FIBER REINFORCED CONCRETE SIDING OR TRIM		RESINOUS FLOORING: TERRAZO, TROWEL-ON, UNO
	GRANULAR FILL		RIGID INSULATION THERMAL, ACOUSTICAL, OR SAFING
	GRATING (PLAN)		SAND, GROUT AS NOTED

GRAPHIC LEGEND

	COLUMN GRID EXISTING		WINDOW TAG
	COLUMN GRID NEW		DOOR TAG
	NORTH ARROW		KEYED NOTE
	WALL SECTION CUT REFERENCE		ELEVATION DATUM REFERENCE
	DRAWING NUMBER SHEET NUMBER		REVISION REFERENCE
	BUILDING SECTION CUT REFERENCE		WALL TYPE REFERENCE (REFERENCE INTERIOR PARTITION LEGEND)
	EXTERIOR ELEVATION REFERENCE		EQUIPMENT TAG
	ENLARGED DRAWING REFERENCE		
	ROOM NAME AND NUMBER		

NOTE: PATTERNS SHOWN REPRESENT CUT MATERIALS IN PLAN OR SECTION, UNLESS NOTED OTHERWISE.

GENERAL NOTES

- ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS.
- CONTRACTOR SHALL KEEP ADJOINING PROPERTIES CLEAN OF CONSTRUCTION DEBRIS AND CONSTRUCTION TRAFFIC AT ALL TIMES.
- THE CONTRACTOR SHALL PROTECT AND NOT DESTROY THE BASE SURVEY CONTROL POINTS DURING DEMOLITION AND CONSTRUCTION.
- ALL UTILITY INFORMATION SHALL BE VERIFIED BY THE CONTRACTOR. CONTACT ENGINEER IMMEDIATELY IF ANY VARIATION EXISTS.
- MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT AGAINST DAMAGE DURING DEMOLITION AND CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.

EXISTING TOPOGRAPHY NOTES

- EXISTING TOPOGRAPHY IS PROVIDED BY: AMERICAN STRUCTUREPOINT INC., PROJECT: 2017.01279 DATED: MARCH 30, 2018

DEMOLITION NOTES

- CLEAR AND GRUB ALL TREES AND VEGETATION NECESSARY FOR CONSTRUCTION.
- PROTECT TREES TO REMAIN DURING CONSTRUCTION.
- PLANT MATERIALS TO REMAIN, TO BE PROTECTED BY TREE FENCE WHICH ENCOMPASSES ITS DRIP LINE. NO CONSTRUCTION EQUIPMENT, MATERIALS OR DEBRIS SHALL BE LOCATED WITHIN TREE PROTECTION BOUNDARIES. NO DEMOLITION CAN OCCUR UNTIL TREE PROTECTION IS APPROVED BY THE OWNER.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, FENCES, CONCRETE, ASPHALT PAVEMENT AND OTHER MISCELLANEOUS APPURTENANCES OFF SITE, UNLESS NOTED TO REMAIN ON THE CONTRACT DRAWINGS.
- DEMOLISH FOUNDATIONS AND OTHER BELOW-GRADE CONSTRUCTION, INCLUDING CONCRETE SLABS, TO A DEPTH OF NOT LESS THAN 48 INCHES BELOW LOWEST FOUNDATION LEVEL. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS ANY DEMOLITION ADJACENT TO EXISTING BUILDING.
- COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION OF STRUCTURES, WITH COMPACTED GRANULAR BACKFILL.
- THE USE OF ANY TYPE OF EXPLOSIVES WILL NOT BE PERMITTED.
- CONDUCT DEMOLITION AND CONSTRUCTION OPERATIONS TO ENSURE MINIMAL INTERFERENCE WITH STREETS, WALKS AND OTHER ADJACENT OCCUPIED FACILITIES.
- DO NOT CLOSE OR OBSTRUCT STREETS, WALKS OR OTHER OCCUPIED FACILITIES WITHOUT PERMISSION FROM THE LOCAL AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY GOVERNING AUTHORITIES.
- ENSURE SAFE PASSAGE OF PERSONS AROUND AREAS OF DEMOLITION AND CONSTRUCTION. CONDUCT OPERATIONS TO PREVENT DAMAGE TO ADJACENT STRUCTURES AND OTHER FACILITIES AND INJURY TO PERSONS.
- PROMPTLY REPAIR DAMAGE TO ADJACENT FACILITIES CAUSED BY DEMOLITION AND CONSTRUCTION OPERATIONS.
- ALL UTILITIES TO BE REMOVED SHALL BE DISCONNECTED AND CAPPED AT THE NEAREST CONNECTION POINT.
- NO ON-SITE BURNING IS PERMITTED.
- CONTRACTOR SHALL USE MEASURES TO CONTROL DUST AT ALL TIMES.
- DEMOLITION ITEMS INCLUDE BUT ARE NOT LIMITED TO DEMOLITION ITEMS INDICATED ON THIS PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE OR RELOCATE ITEMS WHICH INTERFERE WITH NEW CONSTRUCTION.
- ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING DEMOLITION.

SITE NOTES

- ALL PARKING STRIPES ARE TO BE 4" PAINTED (WHITE). ADA ACCESSIBLE PARKING STRIPES SHALL BE 4" PAINTED (BLUE).
- ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR FACE OF CURB, UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS ARE TO FACE OF BRICK OR FACING MATERIAL, WHERE APPLICABLE.
- ALL DIMENSIONS ARE PARALLEL WITH, OR PERPENDICULAR TO BASE LINES, PROPERTY LINES OR BUILDING LINES, UNLESS OTHERWISE NOTED.
- PROVIDE SMOOTH TRANSITIONS FROM NEW AREAS TO EXISTING FEATURES AS NECESSARY.
- RESURFACE OR RECONSTRUCT AT LEAST TO ORIGINAL CONDITIONS ALL AREAS WHERE THE EXISTING PAVEMENT OR LAWNS ARE DAMAGED DURING CONSTRUCTION FROM TRAFFIC BY CONTRACTORS, SUBCONTRACTORS OR SUPPLIERS AFTER CONSTRUCTION WORK IS COMPLETE.
- EXISTING PAVEMENT TO BE SAW CUT IN ALL AREAS WHERE INDICATED NEW PAVEMENT TO JOIN EXISTING.
- THE EDGE OF THE EXISTING ASPHALT PAVEMENT SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL IN ALL AREAS WHERE NEW ASPHALT PAVEMENT IS INDICATED TO JOIN EXISTING ASPHALT.
- CONCRETE SAW CUTTING SHALL BE DONE AS SOON AS POURED CONCRETE HAS CURED AND CAN SUPPORT WEIGHT. PROVIDE A NEAT CUT WHICH IS TRUE IN ALIGNMENT.
- ALL JOINTS ARE TO CONTINUE THROUGH THE CURB.
- RADIAL JOINTS SHALL BE NO SHORTER THAN 1.5'.
- CONTRACTOR SHALL USE A THICKENED EXPANSION JOINT AROUND THE PERIMETER OF ANY BLOCK OUT IN THE CONCRETE PAVING.
- ALL CONSTRUCTION JOINTS SHALL BE SAWN, CLEANED OF DEBRIS, BLOWN DRY AND IMMEDIATELY SEALED WITH THE APPROPRIATE SEALANT ACCORDING TO MANUFACTURER'S DIRECTIONS.
- ALL MATERIALS TO BE IN ACCORDANCE WITH LOCAL DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS RELATIVE TO MATERIAL, MIX, PLACEMENT AND WORKMANSHIP.
- ALL SIDEWALKS SHALL COMPLY WITH ADA STANDARDS. MAXIMUM CROSS SLOPE OF 1:50 AND MAXIMUM LONGITUDINAL SLOPE OF 1:20.
- CHAMFER ALL ENDS OF CURBS.

GRADING NOTES

- SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
- THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH), SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION. SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATIONS OF UTILITIES FOR THEIR OWN WORK.
- CONTRACTOR TO ADJUST ALL EXISTING SURFACE INFRASTRUCTURE (HYDRANTS, VALVES, HANDHOLES, CASTINGS, IRRIGATION SYSTEM, UTILITY PEDESTALS, ETC.) AS REQUIRED TO MEET PROPOSED GRADE AT HIS/HER OWN COST.
- AFTER STRIPPING TOPSOIL MATERIAL, PROOFROLL SHALL BE PERFORMED BY A LOADED TANDEM PNEUMATIC TIRE DUMP TRUCK MINIMUM GROSS VEHICLE WEIGHT OF 15 TONS. THE TIRES SHALL BE OPERATED AT INFLATION PRESSURES BETWEEN 70-80 PSI UNLESS OTHERWISE NOTED BY THE GEOTECHNICAL ENGINEER, THE TIRES SHALL BE INFLATED WITH AIR ONLY, NO LIQUID SHALL BE USED. THE PROOFROLL SHALL BE COMPLETED UNDER INSPECTION OF SOILS FIRM TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUBDRAINS AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
- PROVIDE POSITIVE DRAINAGE WITHOUT PONDING IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR TO TEST FORD, AND CORRECT, IF ANY, STANDING WATER CONDITIONS.
- ALL PROPOSED SPOT ELEVATIONS OR CONTOURS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
- SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
- TRENCHES FOR ALL STORM DRAIN LINES SHALL BE BACKFILLED COMPLETELY WITH SELECT GRANULAR MATERIAL IF WITHIN 5 FEET OF PAVEMENT.
- CONTRACTOR TO PERPETUATE ANY SUBSURFACE DRAIN TILES OR PIPES ENCOUNTERED DURING CONSTRUCTION AND PROVIDE POSITIVE OUTLET TO DOWNSTEAM RECEIVING SYSTEM. CONTRACTOR TO NOTIFY THE ENGINEER WITH ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.
- DUE TO SITE CONSTRAINTS, THE EARTHWORK FOR THE SITE AS DESIGNED MAY OR MAY NOT BALANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE EXISTING CONDITIONS AND INCLUDE IN THEIR BID ALL EARTHWORK COSTS INCLUDING IMPORTS AND/OR EXPORTS NECESSARY TO MAKE THE SITE BALANCE.
- CONTRACTOR TO STABILIZE EXPOSED EARTH AS INDICATED BY THE STORMWATER POLLUTION PREVENTION PLAN OR GOVERNING AUTHORITY.

UTILITY NOTES

- SITE UTILITIES SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
- THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH), SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION. SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATIONS OF UTILITIES FOR THEIR OWN WORK.
- CONTRACTOR TO ADJUST ALL EXISTING SURFACE INFRASTRUCTURE (HYDRANTS, VALVES, HANDHOLES, CASTINGS, IRRIGATION SYSTEM, UTILITY PEDESTALS, ETC.) AS REQUIRED TO MEET PROPOSED GRADE.
- ALL UTILITY MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL STANDARDS FOR EACH UTILITY AGENCY HAVING JURISDICTION.
- TRENCHES FOR ALL UTILITY LINES SHALL BE BACKFILLED COMPLETELY WITH SELECT GRANULAR MATERIAL IF THE TOP OF THE TRENCH IS WITHIN 5 FEET OF PAVEMENT.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES AND CONDUITS TO AVOID CONFLICTS AND PROVIDE REQUIRED MINIMUM DEPTHS OF COVER. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL BENDS WITH THRUST BLOCKS REQUIRED TO ASSURE PROPER INSTALLATION OF WATER MAINS AND LATERALS.
- IN THE EVENT OF A CONFLICT BETWEEN WATER LINES AND STORM DRAINS, THE CONTRACTOR SHALL EITHER ADJUST THE WATER LINE DOWNWARD IN SUCH A MANNER SO THAT THE PIPE MANUFACTURER'S RECOMMENDATIONS ON PIPE DEFLECTION AND JOINT STRESS ARE NOT EXCEEDED OR THE CONTRACTOR SHALL PROVIDE APPROPRIATE BENDS AND CROSSINGS.
- ALL COORDINATES AND DIMENSIONS ARE TO THE CENTERLINE OF UTILITIES AND STRUCTURES.
- ALL PROPOSED STORM SEWER AND DRAINAGE APPURTENANCES SHALL BE IN CONFORMANCE WITH THE CITY OF PORTAGE STORMWATER SPECIFICATIONS, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE STORMWATER SPECIFICATIONS SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE STORMWATER SPECIFICATIONS.

EROSION CONTROL NOTES

- CONTRACTOR SHALL INSTALL ALL PERIMETER SILT FENCE AND SEDIMENT CONTROL BARRIERS PRIOR TO CLEARING AND GRADING.
- THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
- LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING RE-GRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
- SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN RECEIVING WATER. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
- WASTE AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTE AND UNUSED BUILDING MATERIALS IS REQUIRED.
- SEDIMENT BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
- SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND RE-DISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.
- IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
- THE SITE IS NOT LOCATED WITHIN ANY FLOODPLAIN, FLOODWAY OR FLOODWAY FRINGE AS INDICATED ON THE FLOOD INSURANCE RATE MAP (FIRM) FOR PORTER COUNTY, IN, MAP NUMBER 18127C0116D, DATED SEPTEMBER 30, 2015.
- SCHEDULE OF EARTHWORK ACTIVITIES:
 - THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS SOON AS POSSIBLE. UN-VEGETATED AREAS THAT ARE SCHEDULED OR LIKELY TO BE LEFT INACTIVE FOR FIFTEEN (15) DAYS OR MORE MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITH MEASURES APPROPRIATE FOR THE SEASON TO MINIMIZE EROSION POTENTIAL. ALTERNATIVE MEASURES TO SITE STABILIZATION ARE ACCEPTABLE IF THE PROJECT SITE OWNER OR THEIR REPRESENTATIVE CAN DEMONSTRATE THEY HAVE IMPLEMENTED EROSION AND SEDIMENT CONTROL MEASURES ADEQUATE TO PREVENT SEDIMENT DISCHARGE.
 - TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIMES OF THE YEAR. PERMANENT AND FINAL VEGETATION AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.
 - INSTALL INLET PROTECTION AROUND INLETS IMMEDIATELY UPON COMPLETION OF THE STRUCTURE. REMOVE INLET PROTECTION FOR PAVING OPERATION. REPLACE INLET PROTECTION AFTER PAVING IS COMPLETE. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON SEEDED AREAS BEHIND THE CURB.
- PRIOR TO COMPLETION OF THE PROJECT, CONTRACTOR SHALL CLEAN OUT ALL STORM DRAINAGE STRUCTURES AND RESTORE ALL DITCHES AND PONDS TO DESIGNED GRADES.
- CONTRACTOR SHALL REMOVE ALL SEDIMENT CONTROL BARRIERS ONCE CONSTRUCTION IS COMPLETE AND THE SITE HAS BEEN STABILIZED.
- ALL PROPOSED EROSION AND SEDIMENT CONTROL SHALL BE IN CONFORMANCE WITH THE CITY OF PORTAGE STORMWATER SPECIFICATIONS, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE STORMWATER SPECIFICATIONS SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE STORMWATER SPECIFICATIONS.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED BY THE INSPECTOR.

EXISTING LEGEND

- | | |
|--------------------|------------------------------|
| air conditioner | telephone handhole |
| bush | telephone manhole |
| curb inlet | telephone marker sign |
| clean out | telephone pedestal |
| drainage manhole | transformer |
| electric meter box | tree |
| electric cross box | traffic manhole |
| flag pole | water manhole |
| fire hydrant | water valve |
| ground light | yard light |
| gas meter | tr top of rim elevation |
| guy wire | inv invert elevation |
| inlet | rcp reinforced concrete pipe |
| light pole | cmp corrugated metal pipe |
| pole | vcp clay pipe |
| post | pvc plastic pipe |
| power pole | fo buried fiber optic line |
| sign | t buried telephone line |
| sanitary manhole | g buried gas line |
| | e buried electric line |
| | w buried water line |
| | ctv buried television line |
| | ohc overhead electric line |

BENCHMARK DATA

- (88 DATUM)
- TBM 60
CUT SQUARE SET EAST SIDE 24" DIAMETER CONCRETE LIGHT BASE 24" ABOVE GRADE AT SOUTH SIDE OF NORTH ENTRANCE TO PORTER COUNTY ANNEX; ±75' WEST OF & WILLOW SPRING ROAD AND ±30' SOUTH OF NORTH ENTRANCE.
ELEV: 641.636
- TBM 61
BOAT SPIKE SET ON NORTH SIDE UTILITY POLE #860-551 AT NW CORNER WILLOW SPRING DRIVE AND HOSPITAL ENTRANCE ROAD; ± 50' WEST OF & WILLOW SPRING DRIVE AND ± 50' NORTH OF & HOSPITAL DRIVE.
ELEV: 641.205
- TBM 62
CUT SQUARE SET IN NORTHEAST CORNER OF CONCRETE TRANSFORMER PAD SOUTH OF FRONTIER COMMUNICATIONS BUILDING; ±75' WEST OF DRIVE TO BUILDING AND ±50' SOUTH OF FRONTIER BUILDING.
ELEV: 638.905

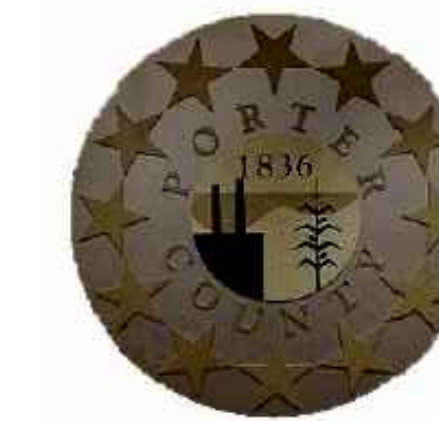
GEOTECHNICAL & ENVIRONMENTAL NOTE:

- CONTRACTOR SHALL REFER TO THE GEOTECHNICAL ENGINEERING REPORT FOR INFORMATION ABOUT SOIL CONDITIONS.

!! CAUTION !!

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CALL TOLL FREE
"811" OR 1-800-382-5544
- INDIANA UNDERGROUND -



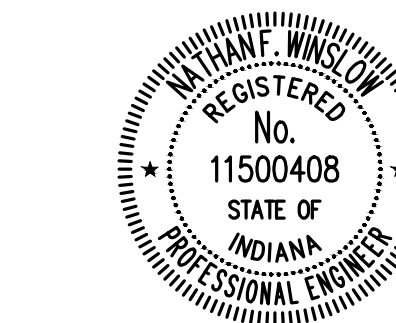
155 Indiana Avenue
Valparaiso, IN 46383



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TEL 317.647.6680 | FAX 317.543.0270
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**PORTER COUNTY
NORTH ANNEX**

**3560 WILLOWCREEK RD
PORTAGE, IN 46368**



Nathan Winslow
CERTIFIED BY

ISSUANCE INDEX

DATE:
08/17/2018
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2017.01279

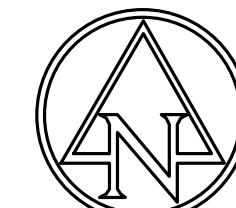
GENERAL NOTES

C002

UTILITY CONTACTS

UTILITY	COMPANY	CONTACT	PHONE NO.
ELECTRIC	NIPSCO ELECTRIC	BRIAN WINTER	(219) 886-5522
GAS	NIPSCO GAS	BRIAN WINTER	(219) 886-5522
SANITARY SEWER	PORTAGE UTILITIES FIELD DIVISION	DON SLAWNIKOWSKI	(219) 762-1301
STORM SEWER	PORTAGE UTILITIES FIELD DIVISION	DAVID W. LITTLETON	(219) 763-2986
TELEPHONE	VERIZON	THOMAS BUHER	(708) 458-6410
WATER	IN AMERICAN WATER (NORTHWEST)	CHERI REESE	(219) 808-3001

(REV. 03/21/18)



EXISTING LEGEND

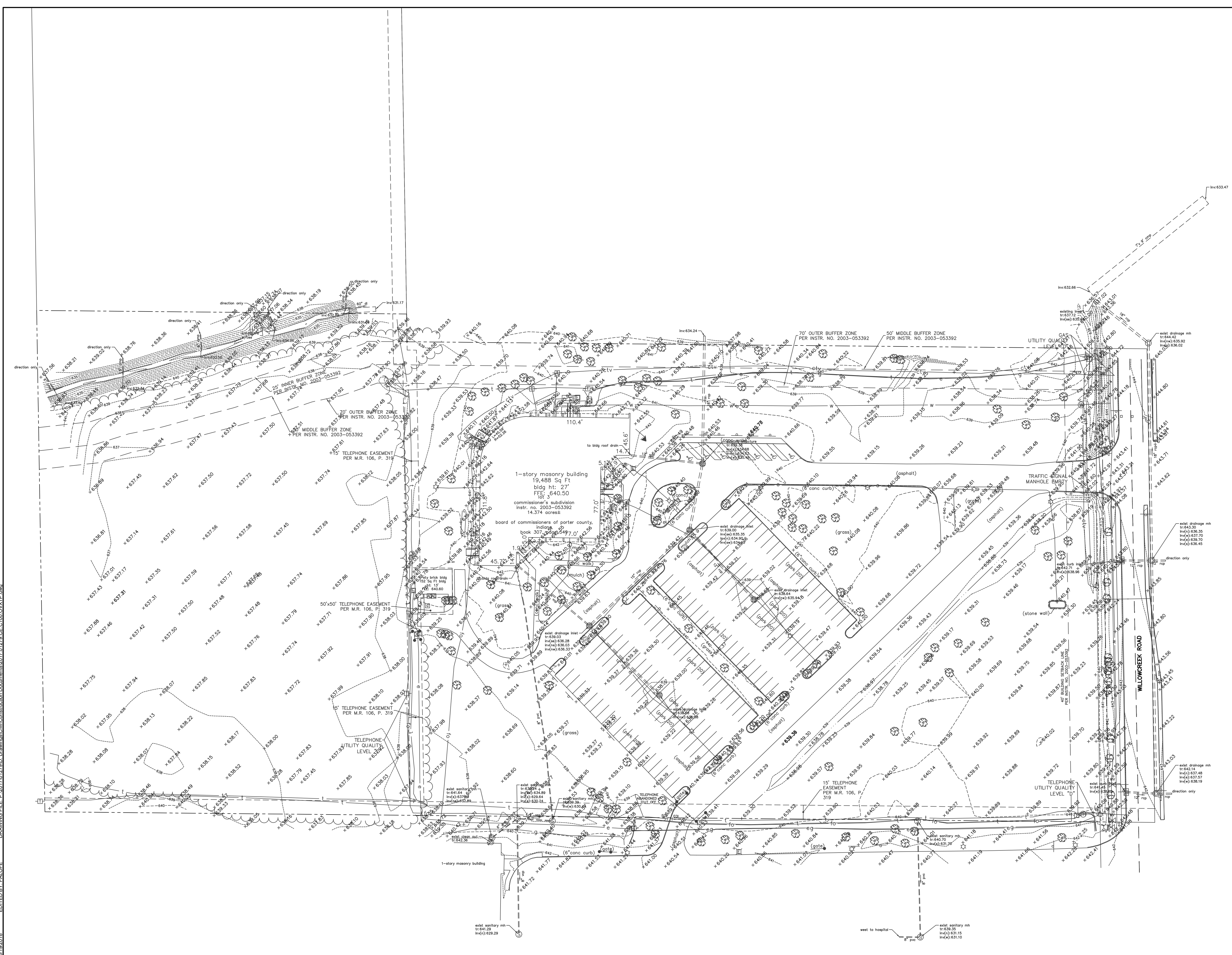
- air conditioner
- bush
- curb inlet
- clean out
- drainage manhole
- electric meter box
- electric cross box
- flag pole
- fire hydrant
- ground light
- gas meter
- guy wire
- inlet
- light pole
- pole
- post
- power pole
- sign
- sanitary manhole
- telephone handhole
- telephone manhole
- telephone marker sign
- telephone pedestal
- transformer
- tree
- traffic manhole
- water manhole
- water valve
- yard light
- tr top of rim elevation
- inv invert elevation
- rcp reinforced concrete pipe
- cmp corrugated metal pipe
- vcp clay pipe
- pvc plastic pipe
- fo buried fiber optic line
- t buried telephone line
- g buried gas line
- e buried electric line
- w buried water line
- ctv buried television line
- oh overhead electric line

BENCHMARK DATA

- (88 DATUM)**
- TBM 60**
CUT SQUARE SET EAST SIDE 24" DIAMETER CONCRETE LIGHT BASE 24" ABOVE GRADE AT SOUTH SIDE OF NORTH ENTRANCE TO PORTER COUNTY ANNEX; ±75' WEST OF E WILLOW SPRING ROAD AND ±30' SOUTH OF NORTH ENTRANCE.
ELEV: 641.636
- TBM 61**
BOAT SPIKE SET ON NORTH SIDE UTILITY POLE #860-551 AT NW CORNER WILLOW SPRING DRIVE AND HOSPITAL ENTRANCE ROAD; ± 50' WEST OF E WILLOW SPRING ROAD AND ± 50' NORTH OF E HOSPITAL DRIVE.
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CUT SQUARE SET IN NORTHEAST CORNER OF CONCRETE TRANSFORMER PAD SOUTH OF FRONTIER COMMUNICATIONS BUILDING; ±75' WEST OF DRIVE TO BUILDING AND ±50' SOUTH OF FRONTIER BUILDING.
ELEV: 638.905

LEGAL DESCRIPTION

Lot 3 in Commissioner's Subdivision, per plat thereof, record instrument number 2003-053392, on file in the Office of the Recorder of Porter County, Indiana.



- GENERAL NOTES:**
- CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
 - CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
 - SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

UTILITY CONTACTS			
UTILITY	COMPANY	CONTACT	PHONE NO.
ELECTRIC	NIPSCO ELECTRIC	BRIAN WINTER	(219) 886-5522
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CERTIFIED BY

ISSUANCE INDEX

DATE:	08/17/2018
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

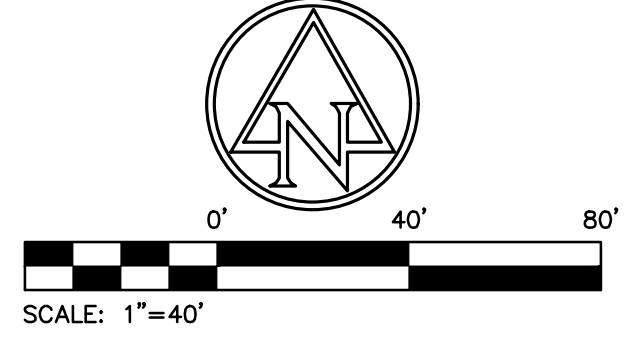
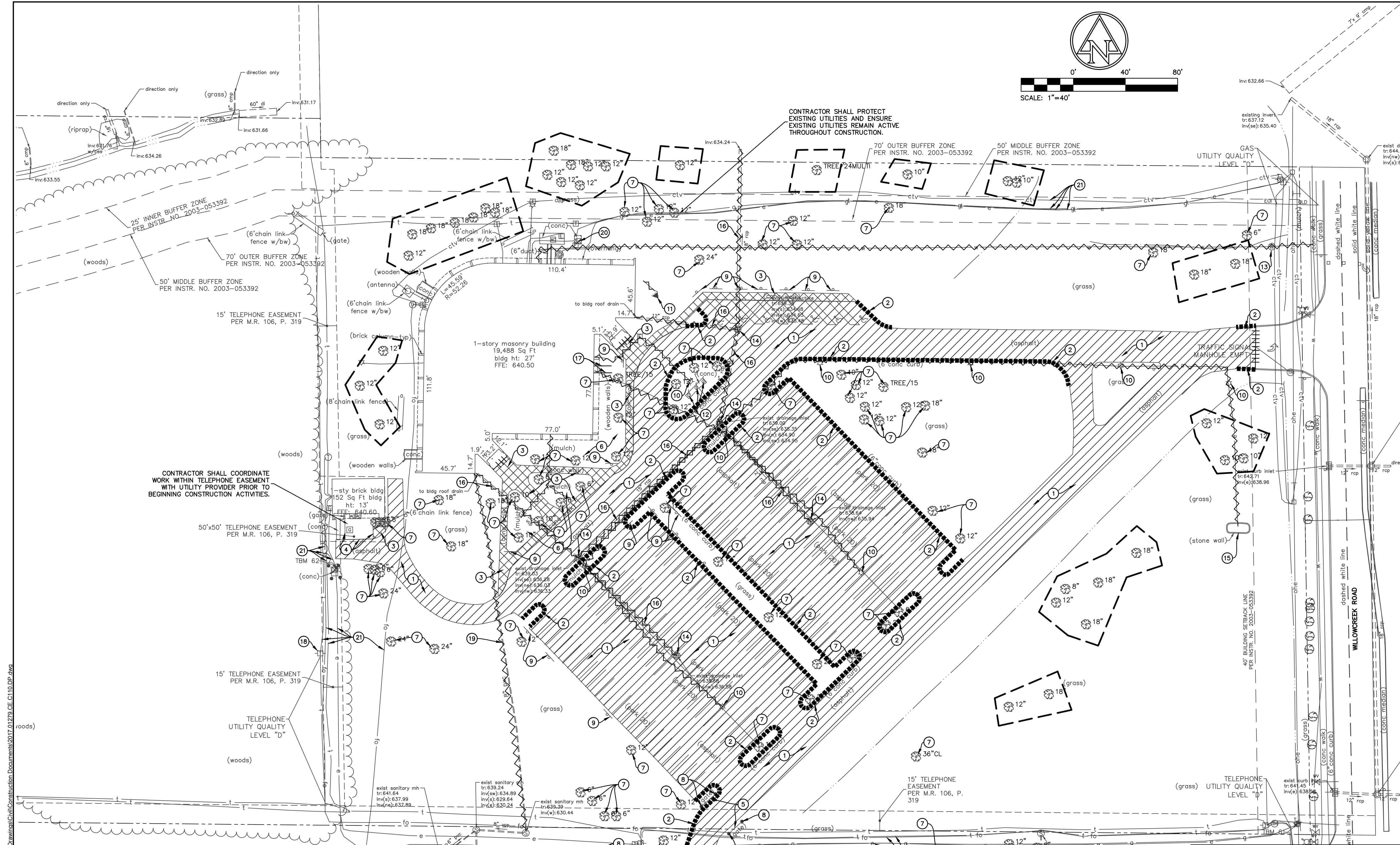
NO.	DESCRIPTION	DATE

Project Number 2017.01279

OVERALL EXISTING TOPOGRAPHY PLAN

C100

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 EDITOR: FALDFE



- ### EXISTING LEGEND
- air conditioner
 - bush
 - curb inlet
 - clean out
 - drainage manhole
 - electric meter box
 - electric cross box
 - flag pole
 - fire hydrant
 - ground light
 - gas meter
 - guy wire
 - inlet
 - light pole
 - pole
 - post
 - power pole
 - sign
 - sanitary manhole
 - telephone handhole
 - telephone manhole
 - telephone marker sign
 - telephone pedestal
 - transformer
 - tree
 - traffic manhole
 - water manhole
 - water valve
 - yard light
 - top of rim elevation
 - invert elevation
 - corrugated concrete pipe
 - clay pipe
 - pvc pipe
 - buried fiber optic line
 - buried telephone line
 - buried gas line
 - buried electric line
 - buried water line
 - buried television line
 - overhead electric line

- ### BENCHMARK DATA
- (88 DATUM)
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OUT SQUARE SET EAST SIDE 24" DIAMETER CONCRETE LIGHT BASE 24" ABOVE GRADE AT SOUTH SIDE OF NORTH ENTRANCE TO PORTER COUNTY ANNEX; ±75' WEST OF & WILLOW SPRING ROAD AND ±30' SOUTH OF NORTH ENTRANCE.
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ELEV: 638.905

- ### DEMOLITION LEGEND
- EXISTING UTILITY TO BE REMOVED
 - PAVEMENT TO BE SAWCUT
 - EXISTING CURB TO BE REMOVED
 - EXISTING FENCE TO BE REMOVED
 - EXISTING ASPHALT TO BE REMOVED (FULL DEPTH)
 - EXISTING CONCRETE AND BASE TO BE REMOVED

- ### PRESERVATION LEGEND
- TREE PROTECTION FENCE

- ### KEYNOTES
1. EXISTING ASPHALT PAVEMENT AND BASE MATERIAL TO BE REMOVED (SAWCUT FOR CLEAN EDGE).
 2. EXISTING CONCRETE CURB TO BE REMOVED.
 3. REMOVE EXISTING CONCRETE, BASE, CONCRETE PADS AND OTHER MISCELLANEOUS CONCRETE MATERIAL (SAWCUT FOR CLEAN EDGE).
 4. EXISTING FENCE TO BE PROTECTED AND REMAIN IN PLACE.
 5. EXISTING GATE AND FOUNDATIONS TO BE REMOVED.
 6. EXISTING LANDSCAPE TO BE REMOVED.
 7. EXISTING TREE TO BE REMOVED.
 8. EXISTING PIPE BOLLARD AND FOUNDATIONS TO BE REMOVED.
 9. EXISTING SIGN AND FOUNDATIONS TO BE REMOVED.
 10. EXISTING LIGHT POLE AND FOUNDATIONS TO BE REMOVED.
 11. EXISTING YARD LIGHT TO BE REMOVED.
 12. EXISTING FLAG POLE AND CONCRETE TO BE PROTECTED AND TO REMAIN IN PLACE.
 13. ABANDON EXISTING WATER METER PIT/VAULT AND VAULT PER UTILITY COMPANY STANDARDS. (CONTRACTOR TO VERIFY METER PIT OR VAULT PRIOR TO BIDDING).
 14. EXISTING UTILITY STRUCTURE TO BE REMOVED.
 15. EXISTING MONUMENT SIGN, STONE WALL AND FOUNDATIONS TO BE REMOVED.
 16. EXISTING STORM SEWER PIPE TO BE REMOVED.
 17. WOODEN WALL TO BE REMOVED.
 18. EXISTING TELEPHONE PEDESTAL TO BE REMOVED AND RELOCATED. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY PRIOR TO CONSTRUCTION.
 19. EXISTING SANITARY LINE TO BE REMOVED AND REPLACED. SEE UTILITY PLAN. WORK TO BE PERFORMED AFTER HOURS. COORDINATE WITH OWNERS REPRESENTATIVE.
 20. EXISTING TRANSFORMER TO BE REMOVED AND REPLACED.
 21. EXISTING UTILITIES TO BE PROTECTED AND REMAIN ACTIVE THROUGHOUT CONSTRUCTION ACTIVITIES.

- ### GENERAL NOTES
1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
 2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
 3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

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INDIANA UNDERGROUND

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STORM SEWER	PORTAGE UTILITIES FIELD DIVISION	DAVID W. LITTLETON	(219) 763-2886
TELEPHONE	VERIZON	THOMAS BUHER	(708) 458-6410
WATER	IN AMERICAN WATER (NORTHWEST)	CHERI REESE	(219) 808-3001

(REV. 03/21/18)

TREE PRESERVATION CREDITS:

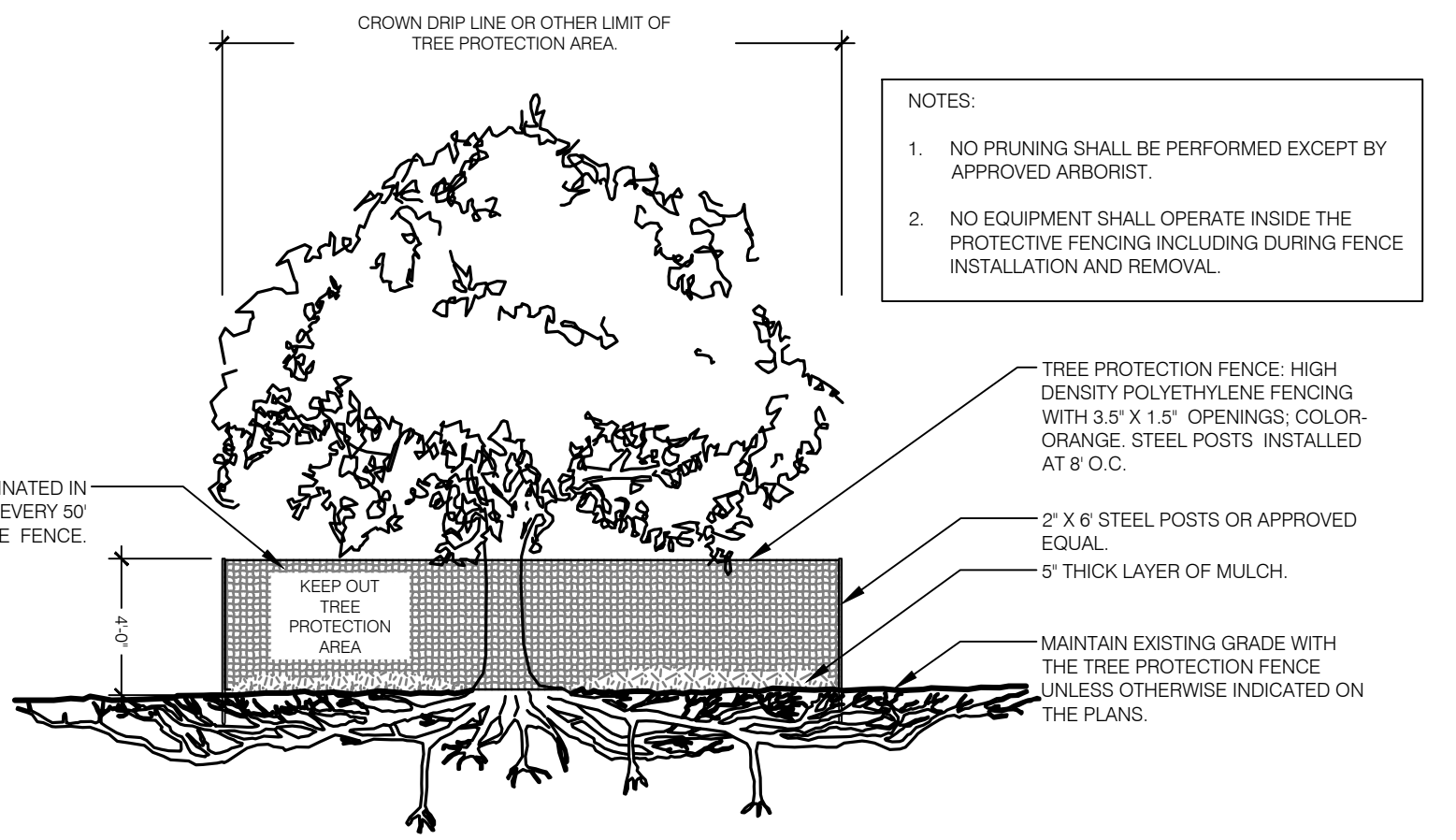
THE PRESERVATION OF AN EXISTING HEALTHY TREE SHALL CONSTITUTE A CREDIT TOWARD THE MINIMUM LANDSCAPE REQUIREMENTS IN THE ZONING ORDINANCE. A CREDIT WILL BE GIVEN PER TREE THAT CONTRIBUTES TO AND SATISFIES THE INTENT OF A PARTICULAR SECTION OF THE LANDSCAPE STANDARDS IN THIS ARTICLE. ORANGE CONSTRUCTION FENCING MUST BE INSTALLED DURING CONSTRUCTION AT OR BEYOND THE DRILLHOLE OF EACH TREE TO BE PRESERVED. THESE TREES MUST ALSO BE MARKED "DO NOT REMOVE" ON THE SITE PLAN.

EACH DECIDUOUS TREE 4"-8" DBH = CREDIT OF (2) DECIDUOUS TREES
EACH DECIDUOUS TREE 8"-12" DBH = CREDIT OF (3) DECIDUOUS TREES
EACH DECIDUOUS TREE OVER 12" DBH = (4) DECIDUOUS TREES
EACH EVERGREEN OVER 10' TALL = CREDIT OF (2) EVERGREEN TREES

PRESERVED TREES ON SITE:

DECIDUOUS TREES 4"-8" DBH: (0) = (0) DECIDUOUS TREES CREDITED.
DECIDUOUS TREES 8"-12" DBH: (20) = (60) DECIDUOUS TREES CREDITED.
DECIDUOUS TREES OVER 12" DBH: (15) = (60) DECIDUOUS TREES CREDITED.
EVERGREEN OVER 10' TALL: (0) = (0) EVERGREEN TREES CREDITED.

TOTAL TREE PRESERVATION CREDITS: (120) DECIDUOUS TREES



01 TREE PRESERVATION DETAIL

C110 Scale: NTS



155 Indiana Avenue
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7260 Shadeland Station | Indianapolis, Indiana 46256
TEL 317.647.6680 | FAX 317.543.0270
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PORTER COUNTY NORTH ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



ISSUANCE INDEX

DATE:	08/17/2018
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

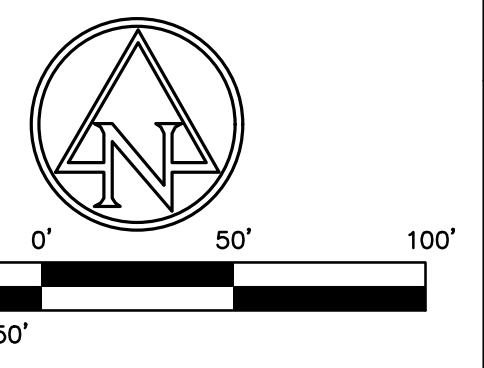
Project Number 2017.01279

DEMOLITION PLAN

C110

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 EDITOR: TRENCH
 EDIT DATE: 8/2/2018



EXISTING LEGEND

	air conditioner		telephone handhole
	bush		telephone marker sign
	curb inlet		telephone pedestal transformer
	clean out		tree
	drainage manhole		traffic manhole
	electric meter box		water manhole
	electric cross box		water valve
	flag pole		yard light
	fire hydrant		tr top of rim elevation
	ground light		inv invert elevation
	gas meter		rcp reinforced concrete pipe
	guy wire		cmp corrugated metal pipe
	inlet		vcp clay pipe
	light pole		pvc plastic pipe
	pole		fo buried fiber optic line
	post		t buried telephone line
	power pole		g buried electric line
	sign		w buried water line
	sanitary manhole		ctv buried television line
			ohe overhead electric line

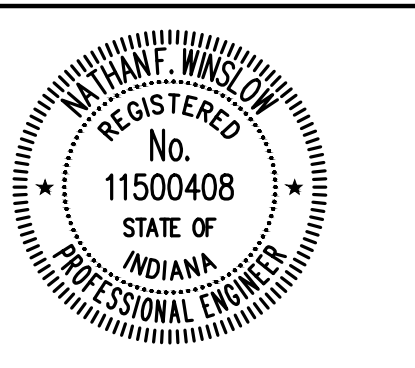


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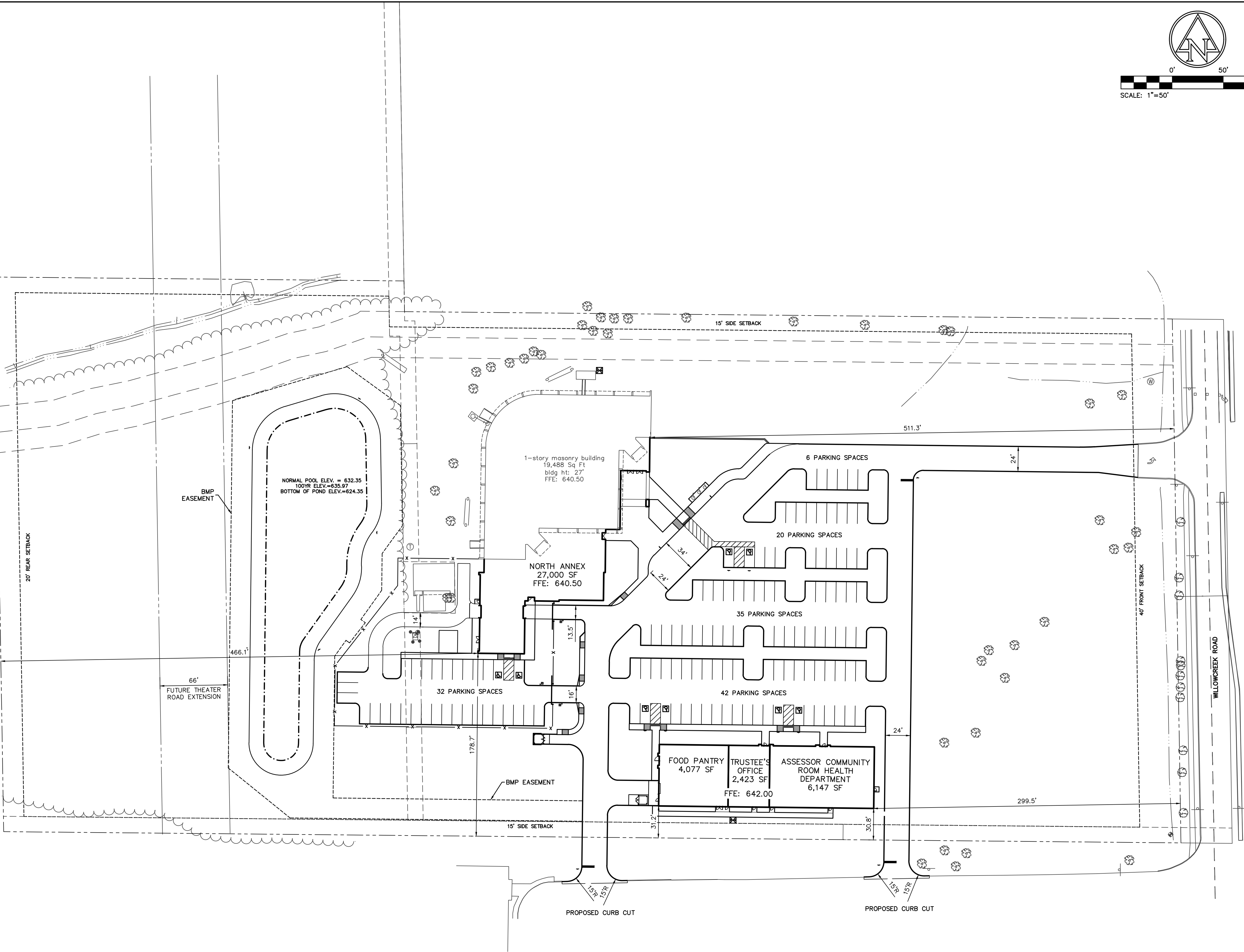
AMERICAN STRUCTUREPOINT INC.
 7260 Shadeland Station | Indianapolis, Indiana 46256
 TEL 317.547.8580 | FAX 317.543.8270
 www.structurepoint.com

PORTER COUNTY NORTH ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



Nathan Winslow
CERTIFIED BY



SITE DATA TABLE

SITE ZONING:	IS
PROJECT AREA:	13.9± ACRES
TOTAL BUILDING AREA:	±40,000 SF
STANDARD PARKING (10'x20') (33 SPACES REQUIRED BY COO2):	97
ADA PARKING PROVIDED: (INCLUDES 3 VAN ACCESSIBLE)	6
TOTAL PROPOSED PARKING:	103
SECURED PARKING AREA	
STANDARD PARKING (10'x20'):	30
ADA PARKING PROVIDED: (INCLUDES 1 VAN ACCESSIBLE)	2
TOTAL PROPOSED PARKING:	32

GENERAL NOTES:

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- SEE SHEET CO02 GENERAL NOTES FOR MORE INFORMATION.

LOT COVERAGE TABLE

TOTAL IMPERVIOUS:	3.10 AC.
TOTAL LOT COVERAGE:	10.69 AC. (78%)

SETBACK INFORMATION

FRONT:	40 FEET
SIDE:	15 FEET
REAR:	20 FEET

LANDSCAPE BUFFER ADDITIONAL 20 FEET ON REAR (ONLY WHEN ABUTTING RESIDENTIAL)

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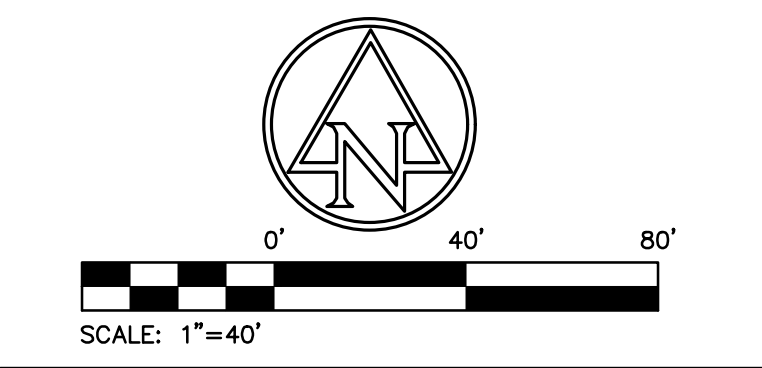
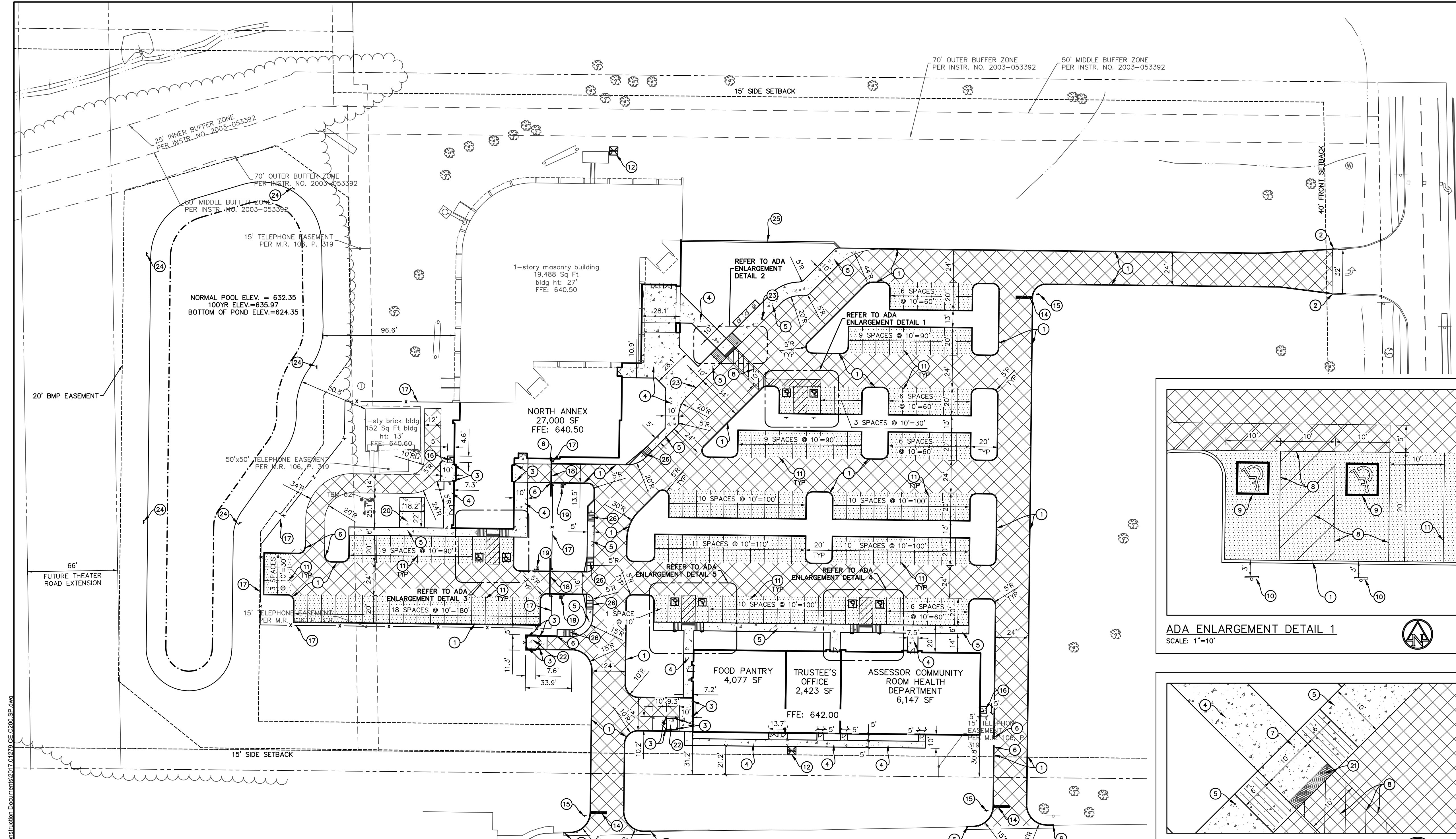
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2017.01279

OVERALL SITE PLAN

C200



EXISTING LEGEND

	air conditioner		telephone handhole
	bush		telephone manhole
	curb inlet		telephone marker sign
	clean out		transformer pedestal
	drainage manhole		transformer
	electric meter box		tree
	electric cross box		traffic manhole
	flag pole		water manhole
	fire hydrant		water valve
	ground light		yard light
	gas meter		tr top of rim elevation
	guy wire		inv invert elevation
	inlet		rcp reinforced concrete pipe
	light pole		cmp corrugated metal pipe
	pole		vcp clay pipe
	post		pvc plastic pipe
	power pole		fo buried fiber optic line
	sanitary manhole		t buried telephone line
			g buried gas line
			e buried electric line
			w buried water line
			ctv buried television line
			oh overhead electric line

SITE LEGEND

	LIGHT DUTY ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	CONCRETE PAVEMENT

- ### KEYNOTES
- STRAIGHT CURB (SEE CITY OF PORTAGE DETAIL)
 - CONCRETE CURB TRANSITION TO EXISTING
 - CONCRETE BOLLARD
 - CONCRETE SIDEWALK (SEE CITY OF PORTAGE DETAIL)
 - COMBINED CONCRETE CURB & WALK
 - CURB TAPER
 - SIDEWALK CURB RAMP TYPE 'K'
 - ADA PARKING SPACE (SEE CITY OF PORTAGE DETAIL)
 - ADA PARKING SYMBOL (SEE CITY OF PORTAGE DETAIL)
 - POST MOUNTED ADA ACCESSIBLE PARKING SIGN
 - PARKING SPACE (4" WHITE PAINT STRIPE)
 - TRANSFORMER PAD PER UTILITY COMPANY STANDARDS
 - WALL MOUNTED ADA ACCESSIBLE PARKING SIGN
 - 24" STOP BAR (WHITE PAINT)
 - STOP SIGN
 - CONCRETE STOOP
 - 6' FENCE (REFER TO C602 FOR DETAILS)
 - 6' SLIDING GATE
 - SECURED ACCESS CARD READER MOUNTED ON BOLLARD (SEE MEP PLANS FOR DETAILS)
 - CONCRETE PAD FOR COOLING STACK (SEE MEP AND STRUCTURAL PLANS)
 - ADA DETECTABLE WARNING TILES
 - DUMPSTER ENCLOSURE (REFER TO ARCHITECTURAL DRAWING FOR DETAILS)
 - DROP OFF AREA SIGN
 - CAUTION DEEP WATER SIGN
 - CONCRETE RETAINING WALL (SEE STRUCTURAL PLANS FOR DETAILS)
 - SIDEWALK CURB RAMP TYPE 'H'

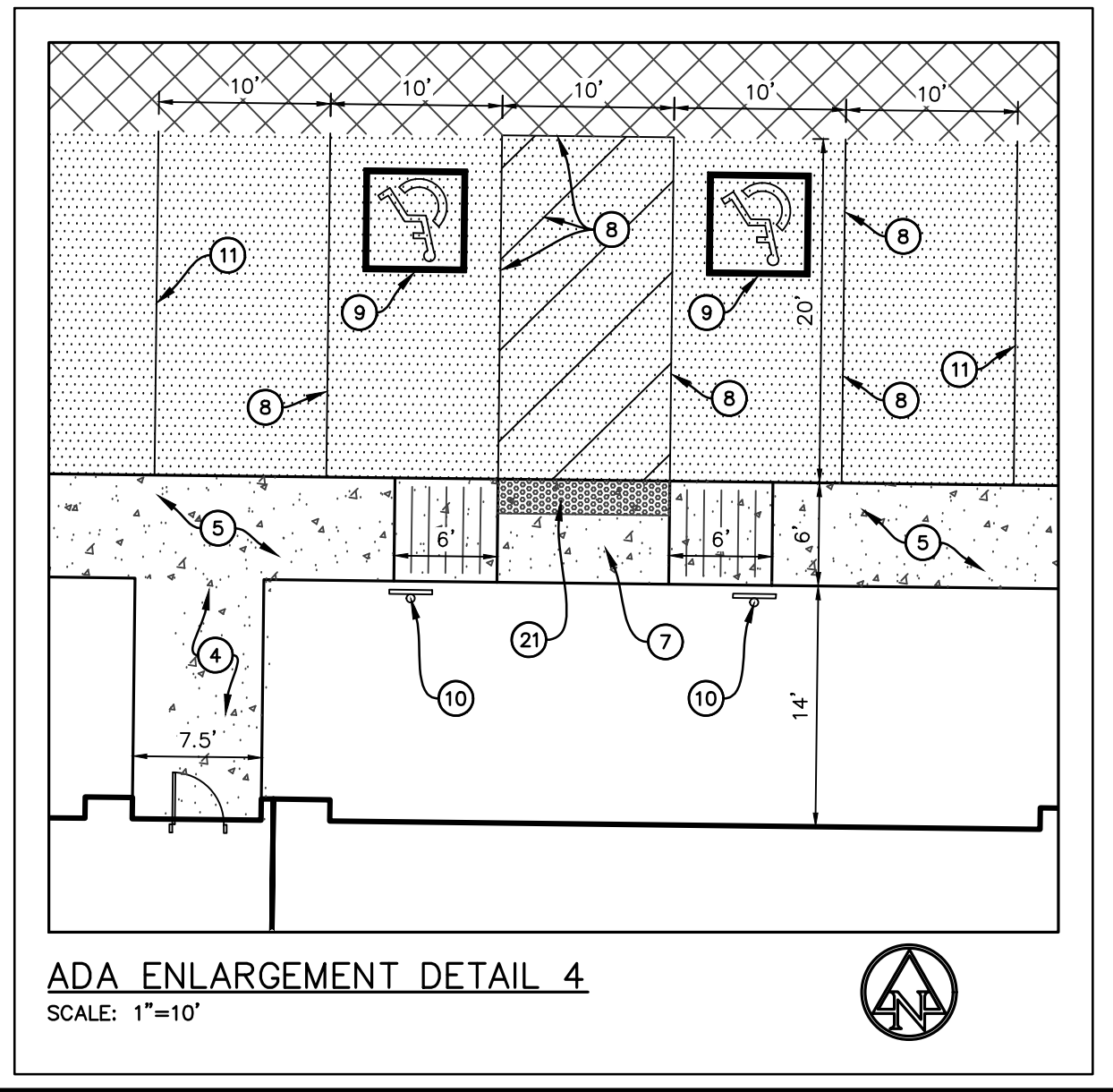
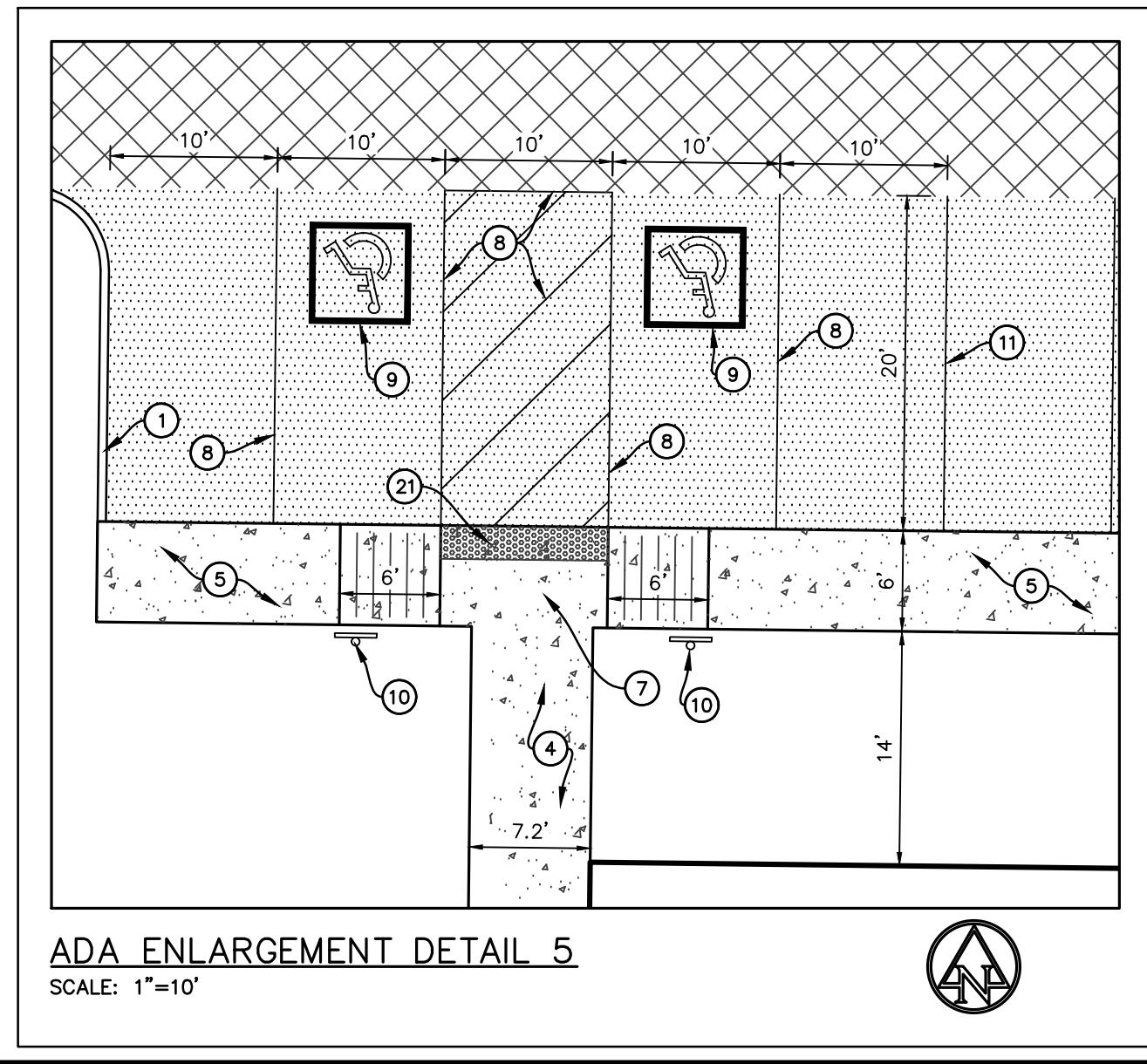
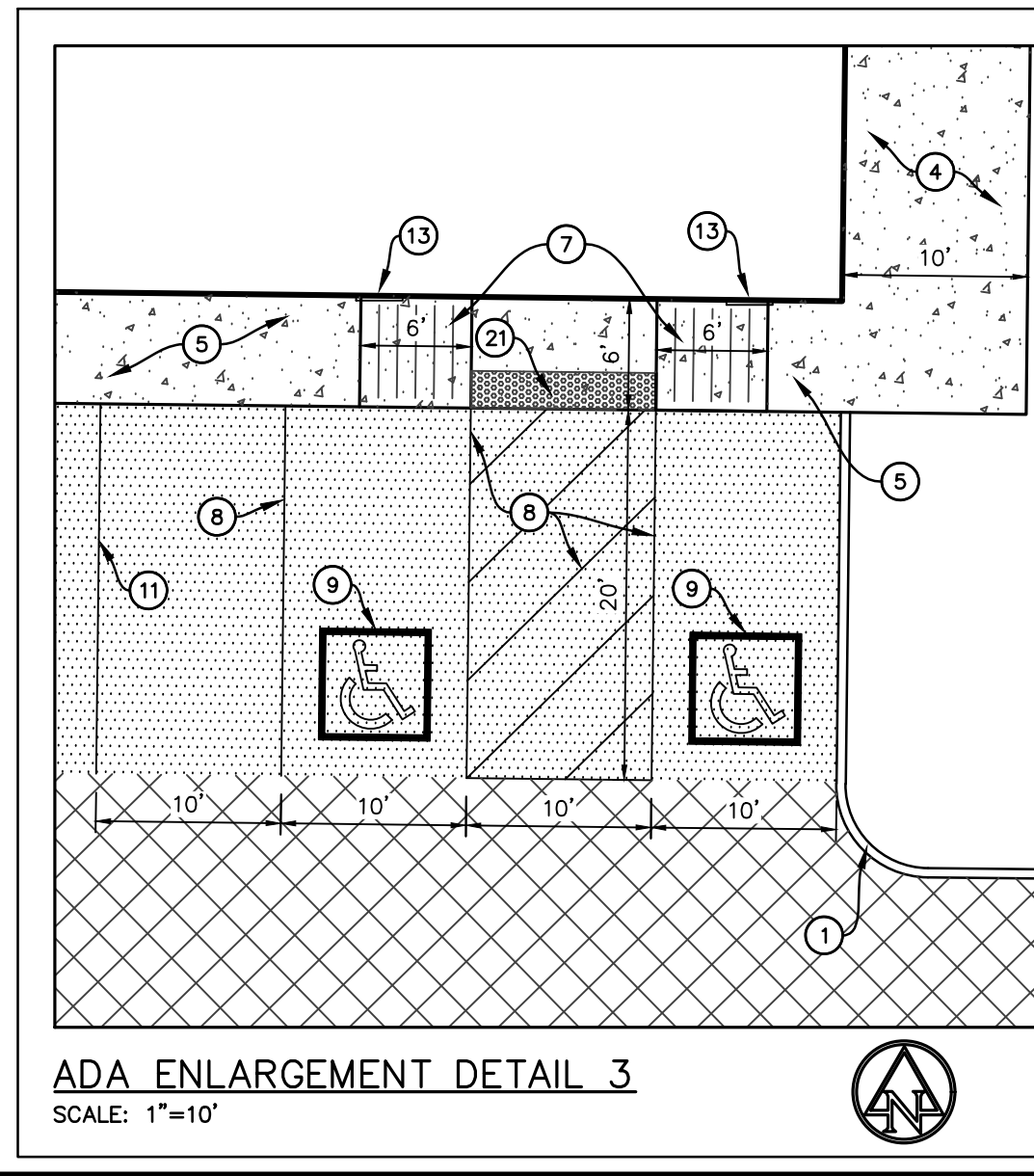
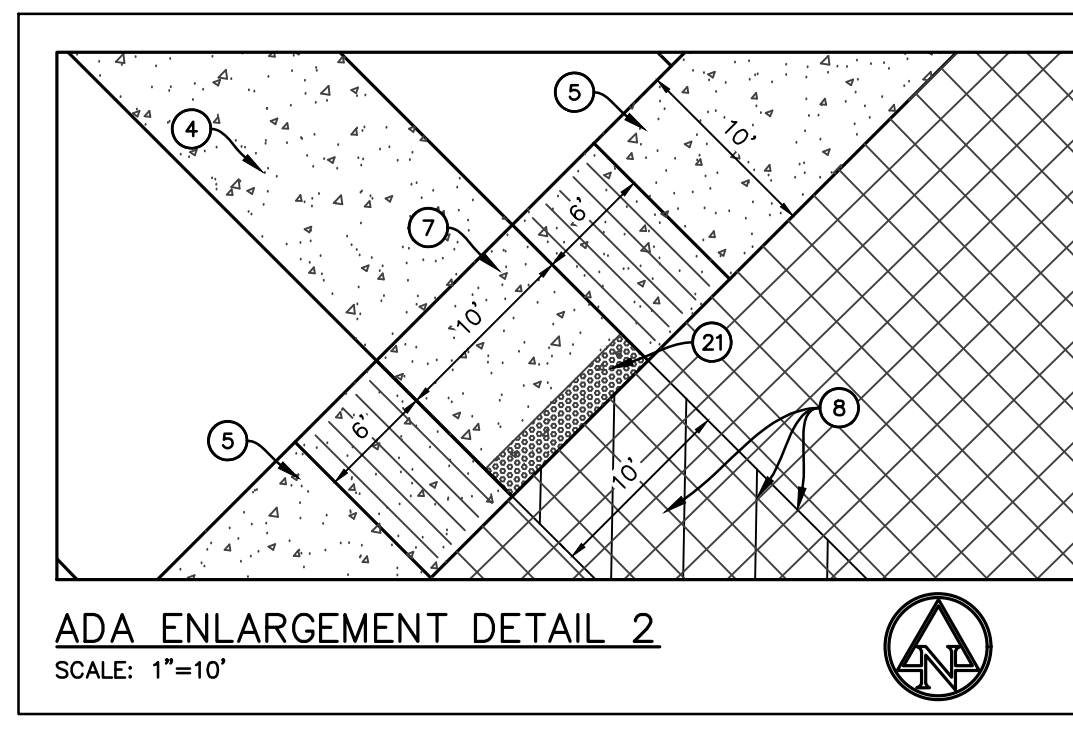
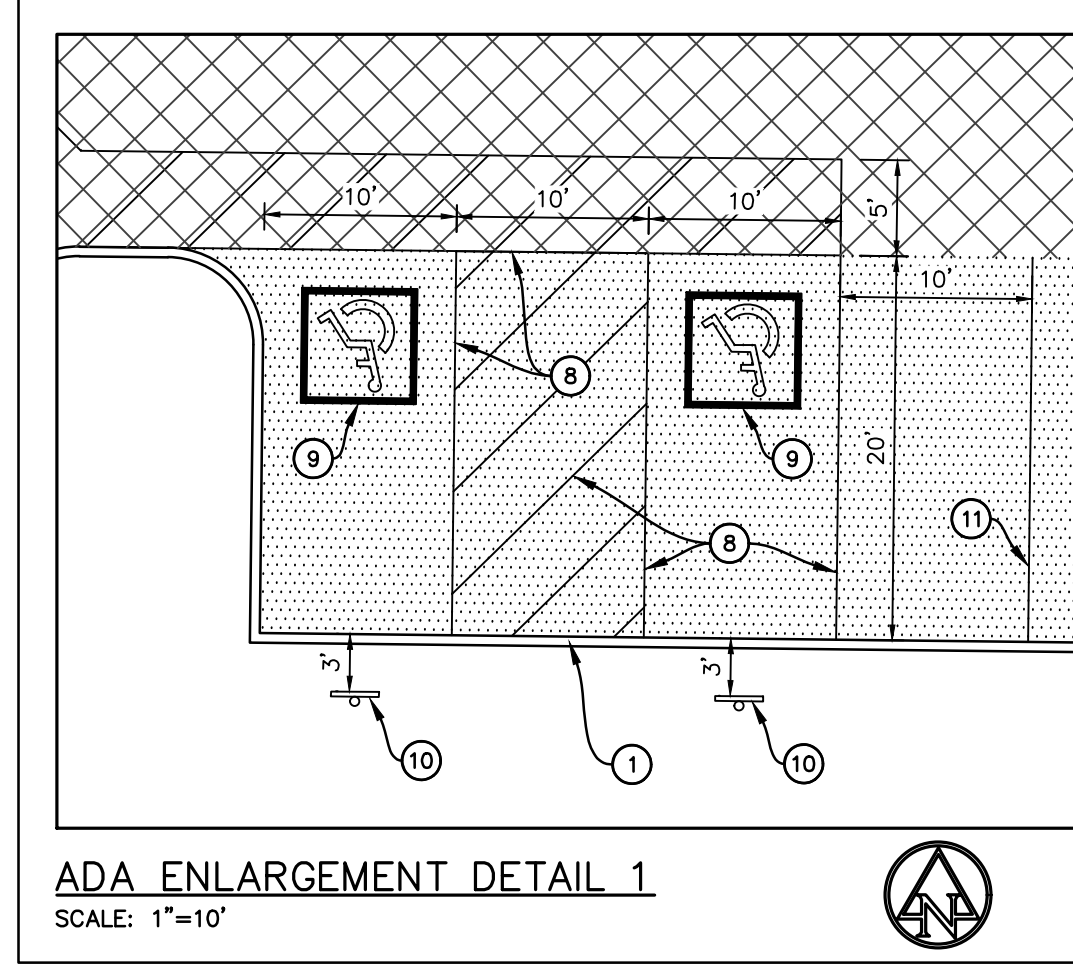
LOT COVERAGE TABLE

TOTAL IMPERVIOUS:	3.10 AC.
TOTAL LOT COVERAGE:	10.69 AC. (78%)

- ### GENERAL NOTES
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CALL TOLL FREE
 811 OR 1-800-382-5544
 - INDIANA UNDERGROUND -



BENCHMARK DATA

(88 DATUM)

TBM 60
 CUT SQUARE SET EAST SIDE 24" DIAMETER CONCRETE LIGHT BASE 24" ABOVE GRADE AT SOUTH SIDE OF NORTH ENTRANCE TO PORTER COUNTY ANNEX; ±75' WEST OF E WILLOW SPRING ROAD AND ±30' SOUTH OF NORTH ENTRANCE.
 ELEV: 641.636

TBM 61
 BOAT SPIKE SET ON NORTH SIDE UTILITY POLE #860-551 AT NW CORNER WILLOW SPRING DRIVE AND HOSPITAL ENTRANCE ROAD; ± 50' WEST OF E WILLOW SPRING DRIVE AND ± 50' NORTH OF E HOSPITAL DRIVE.
 ELEV: 641.205

TBM 62
 CUT SQUARE SET IN NORTHEAST CORNER OF CONCRETE TRANSFORMER PAD SOUTH OF FRONTIER COMMUNICATIONS BUILDING; ±75' WEST OF DRIVE TO BUILDING AND ±50' SOUTH OF FRONTIER BUILDING.
 ELEV: 638.905

SITE DATA TABLE

SITE ZONING:	IS
PROJECT AREA:	13.9± ACRES
TOTAL BUILDING AREA:	±40,000 SF
STANDARD PARKING (10'x20'):	97
(53 SPACES REQUIRED BY CODE)	
ADA PARKING PROVIDED:	6
(INCLUDES 3 VAN ACCESSIBLE)	
TOTAL PROPOSED PARKING:	103
SECURED PARKING AREA	
STANDARD PARKING (10'x20'):	30
ADA PARKING PROVIDED:	2
(INCLUDES 1 VAN ACCESSIBLE)	
TOTAL PROPOSED PARKING:	32



155 Indiana Avenue
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PORTER COUNTY NORTH ANNEX

3560 WILLOWCREEK RD
 PORTAGE, IN 46368



ISSUANCE INDEX

DATE:	08/17/2018
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

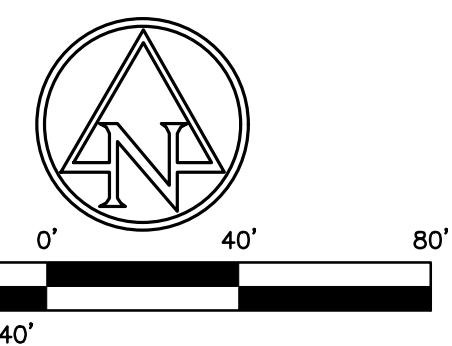
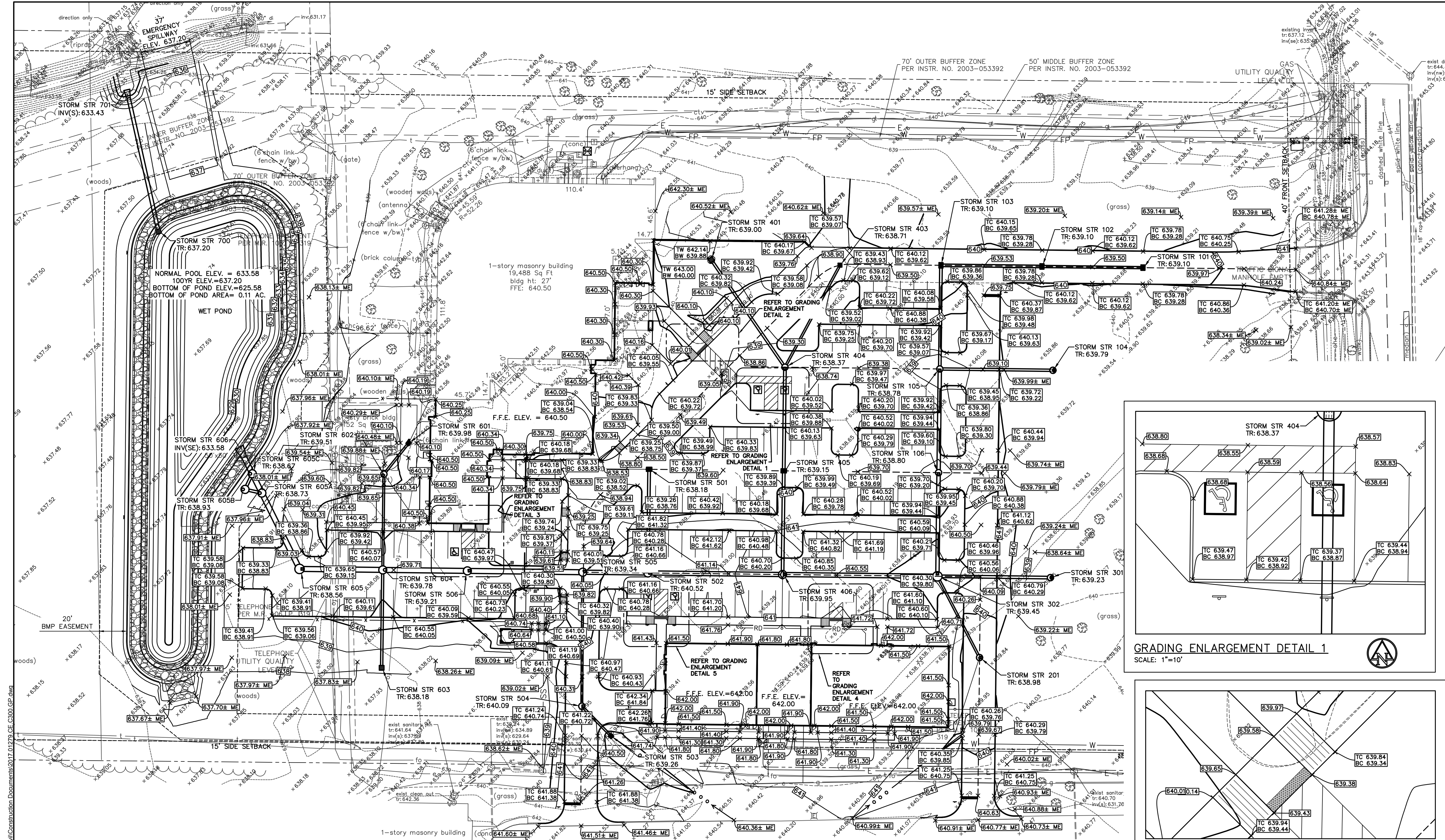
NO.	DESCRIPTION	DATE

Project Number 2017.01279

SITE PLAN

C201

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EXISTING LEGEND

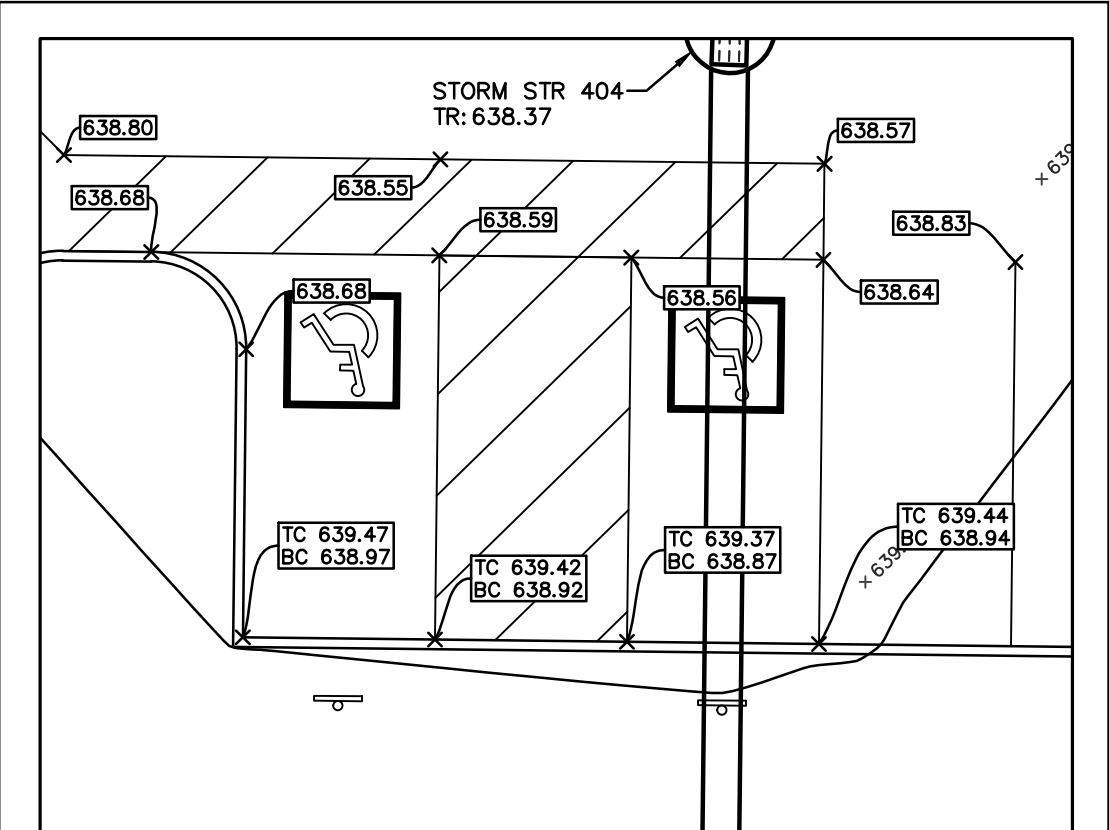
- air conditioner
- bush
- curb inlet
- clean out
- drainage manhole
- electric meter box
- electric cross box
- flag pole
- fire hydrant
- ground light
- gas meter
- guy wire
- inlet
- light pole
- pole
- post
- power pole
- sign
- sanitary manhole
- telephone handhole
- telephone manhole
- telephone marker sign
- telephone pedestal
- transformer
- tree
- traffic manhole
- water manhole
- water valve
- yard light
- top of rim elevation
- invert elevation
- reinforced concrete pipe
- corrugated metal pipe
- clay pipe
- pvc plastic pipe
- buried fiber optic line
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- buried electric line
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BENCHMARK DATA

- (88 DATUM)
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ELEV: 638.905

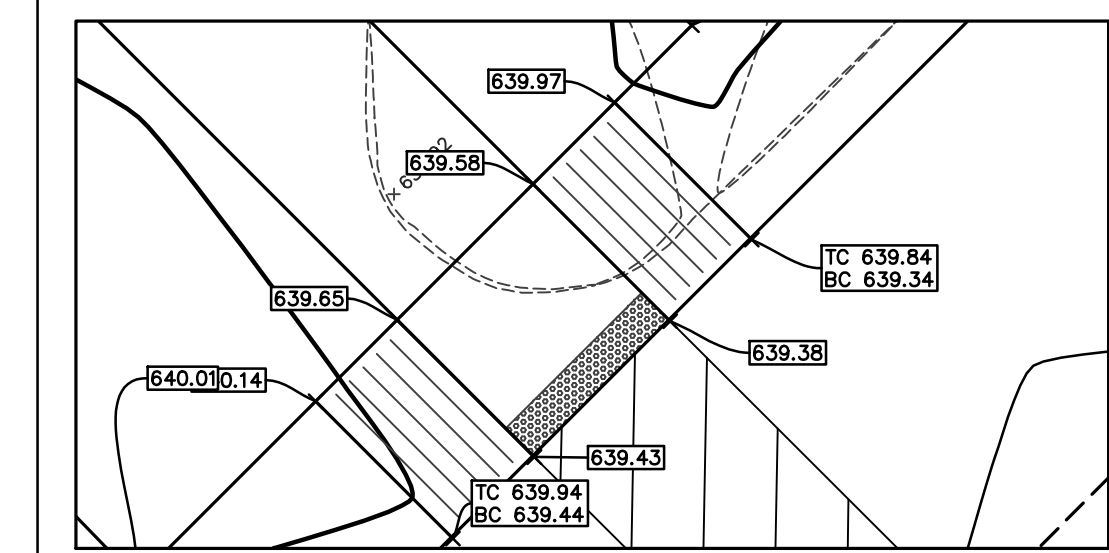
GRADING LEGEND

- MATCH EXISTING
- FLOWLINE
- BOTTOM OF CURB
- TOP OF CURB
- HIGH POINT
- LOW POINT
- CONTOURS
- SWALE
- CURB ELEVATIONS
- SPOT ELEVATIONS
- FLOW ARROW
- STORM SEWER LINE
- INVERTED CROWN SECTION
- STRUCTURES
- RIDGE LINE
- RIPRAP



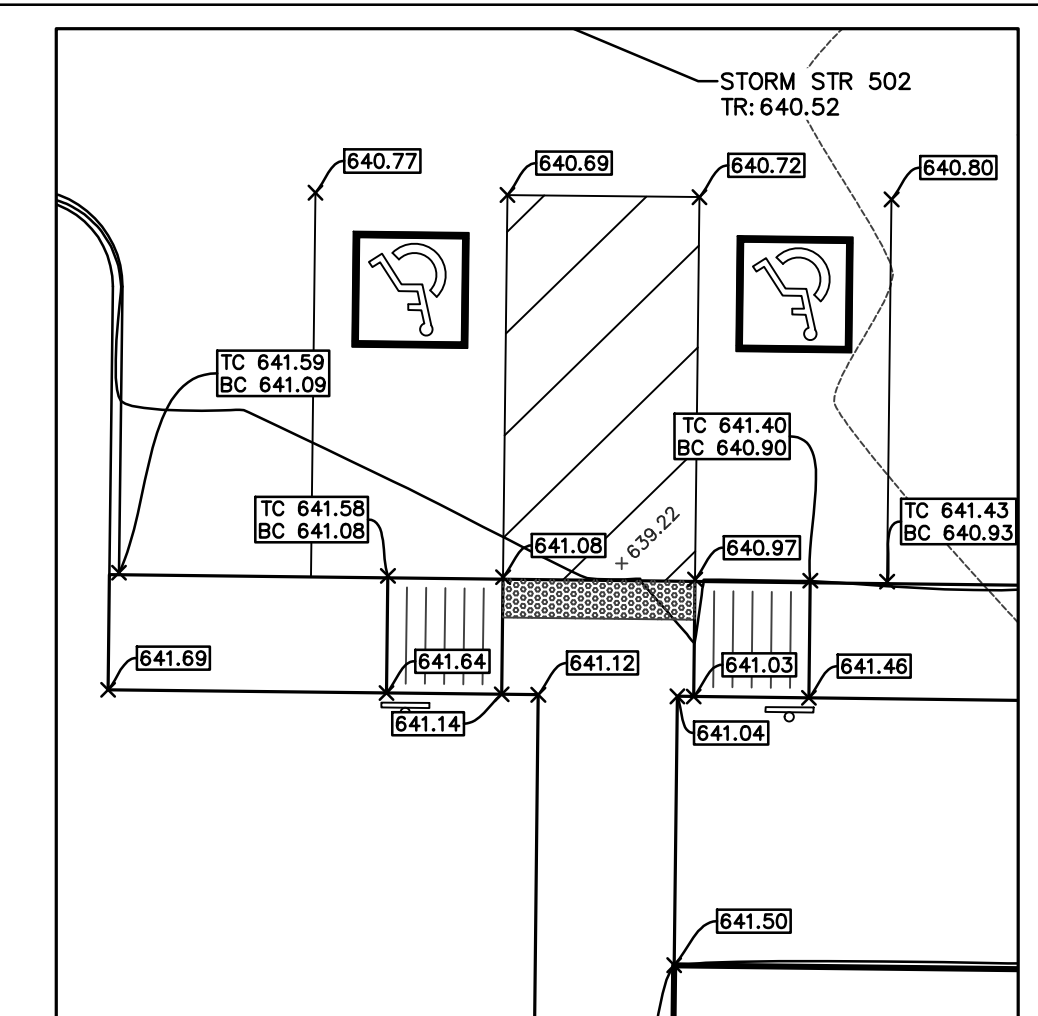
GRADING ENLARGEMENT DETAIL 1

SCALE: 1"=10'



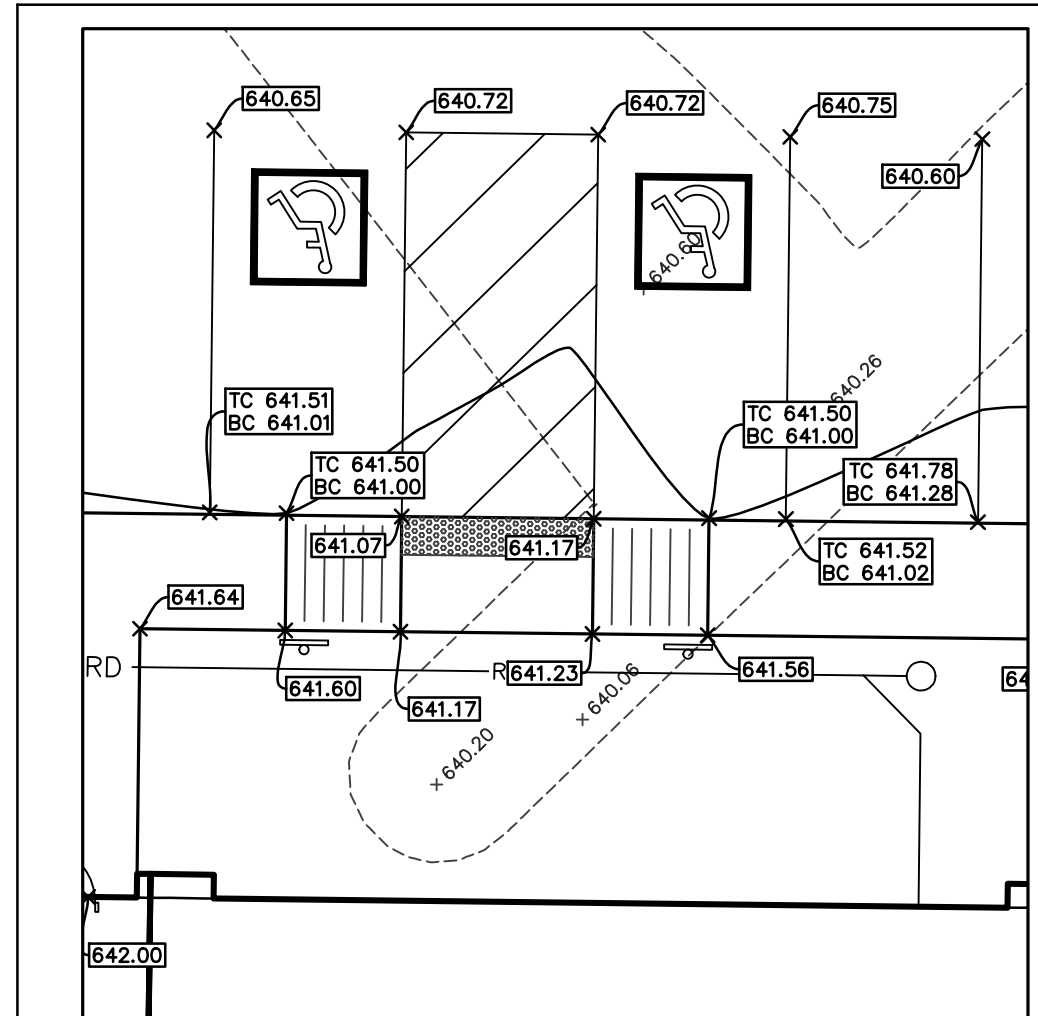
GRADING ENLARGEMENT DETAIL 2

SCALE: 1"=10'



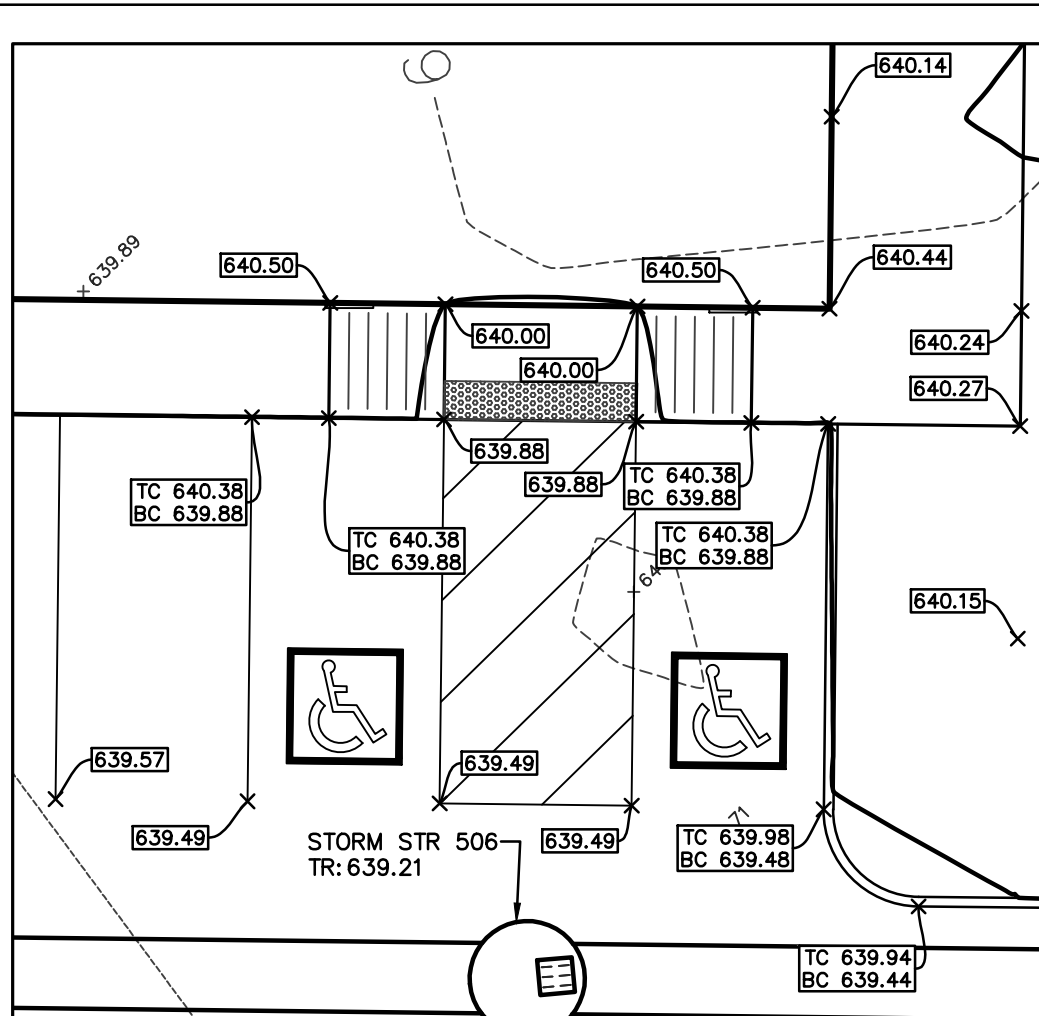
GRADING ENLARGEMENT DETAIL 5

SCALE: 1"=10'



GRADING ENLARGEMENT DETAIL 4

SCALE: 1"=10'



GRADING ENLARGEMENT DETAIL 3

SCALE: 1"=10'

UTILITY CONTACTS			
UTILITY	COMPANY	CONTACT	PHONE NO.
ELECTRIC	NIPSCO ELECTRIC	BRIAN WINTER	(219) 886-5522
GAS	NIPSCO GAS	BRIAN WINTER	(219) 886-5522
SANITARY SEWER	PORTAGE UTILITIES FIELD DIVISION	DON SLAWNIKOWSKI	(219) 762-1301
STORM SEWER	PORTAGE UTILITIES FIELD DIVISION	DAVID W. LITTLETON	(219) 763-2886
TELEPHONE	VERIZON	THOMAS BUHER	(708) 458-6410
WATER	IN AMERICAN WATER (NORTHWEST)	CHERI REESE	(219) 808-3001

(REV. 03/21/18)

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INDIANA UNDERGROUND



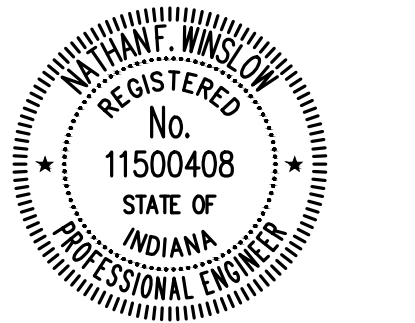
155 Indiana Avenue
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PORTER COUNTY NORTH ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



Nathan Winslow
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ISSUANCE INDEX	
DATE:	08/17/2018
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

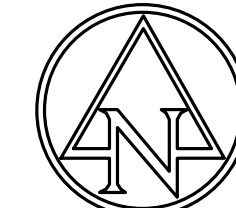
REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

GRADING PLAN

C301

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EDIT DATE: 8/2/2018
EDITED BY: FALDFE



0' 40' 80'
SCALE: 1"=40'



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Valparaiso, IN 46383



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Nathan Winslow
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ISSUANCE INDEX

DATE:	08/17/2018
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REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2017.01279

FLOOD ROUTING
PLAN

C302

EXISTING LEGEND

- air conditioner
- bush
- curb inlet
- clean out
- drainage manhole
- electric meter box
- electric cross box
- flag pole
- fire hydrant
- ground light
- gas meter
- guy wire
- inlet
- light pole
- post
- power pole
- sign
- sanitary manhole
- telephone handhole
- telephone manhole
- telephone marker sign
- telephone pedestal
- transformer
- tree
- traffic manhole
- water manhole
- water valve
- yard light
- top of rim elevation
- invert elevation
- reinforced concrete pipe
- corrugated metal pipe
- clay pipe
- pvc plastic pipe
- buried fiber optic line
- buried telephone line
- buried gas line
- buried electric line
- buried water line
- buried television line
- overhead electric line

BENCHMARK DATA

(88 DATUM)

TBM 60
CUT SQUARE SET EAST SIDE 24" DIAMETER CONCRETE LIGHT BASE 24" ABOVE GRADE AT SOUTH SIDE OF NORTH ENTRANCE TO PORTER COUNTY ANNEX; ±75' WEST OF E WILLOW SPRING ROAD AND ±30' SOUTH OF NORTH ENTRANCE.
ELEV: 641.636

TBM 61
BOAT SPIKE SET ON NORTH SIDE UTILITY POLE #860-551 AT NW CORNER WILLOW SPRING DRIVE AND HOSPITAL ENTRANCE ROAD; ± 50' WEST OF E WILLOW SPRING ROAD AND ± 50' NORTH OF E HOSPITAL DRIVE.
ELEV: 641.205

TBM 62
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ELEV: 638.905

LEGEND

- STORM SEWER INLET FLOW DIRECTION ARROW
- OVERLAND FLOOD ROUTING ARROW
- RIDGE LINE

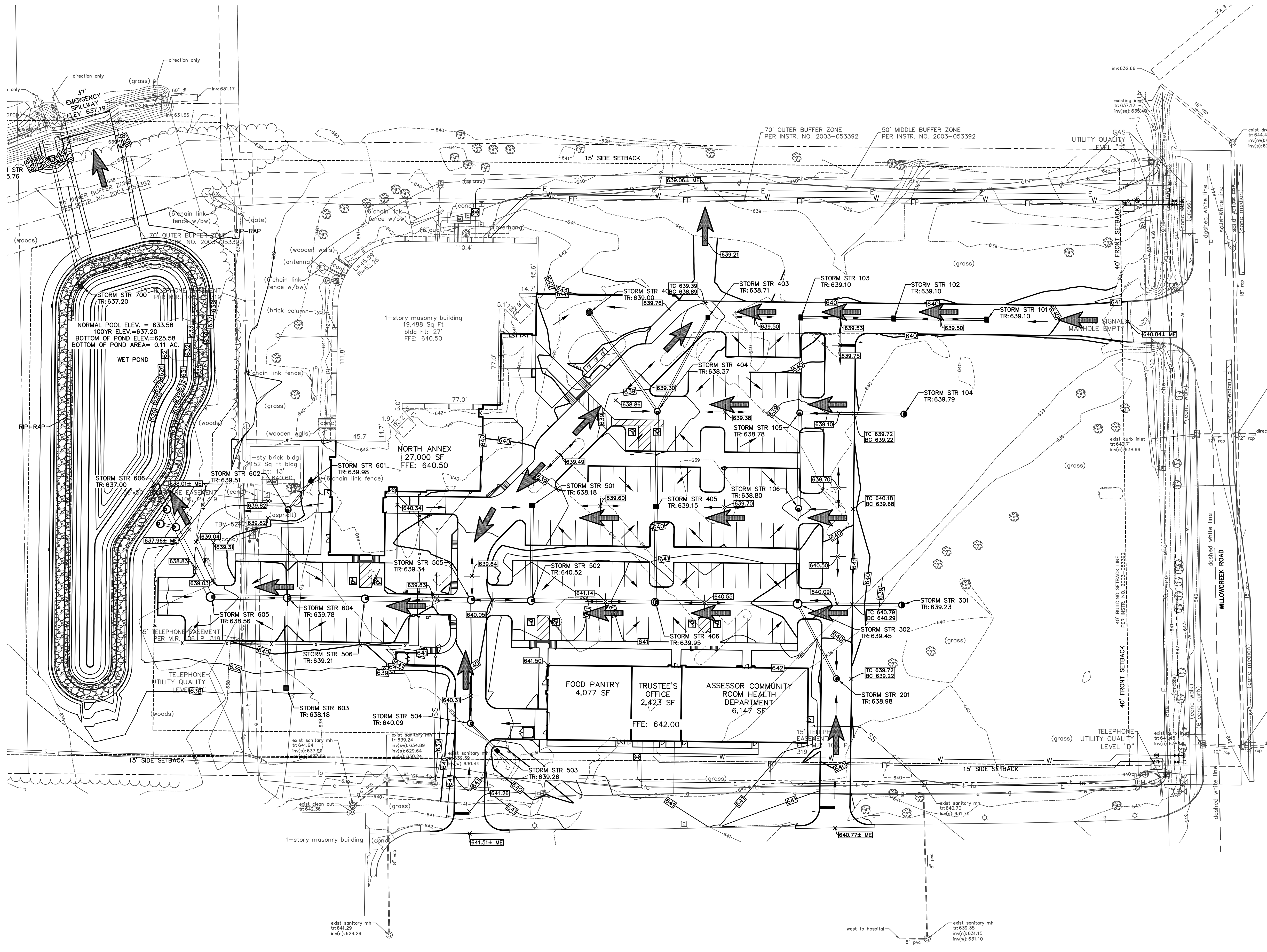
GENERAL NOTES:

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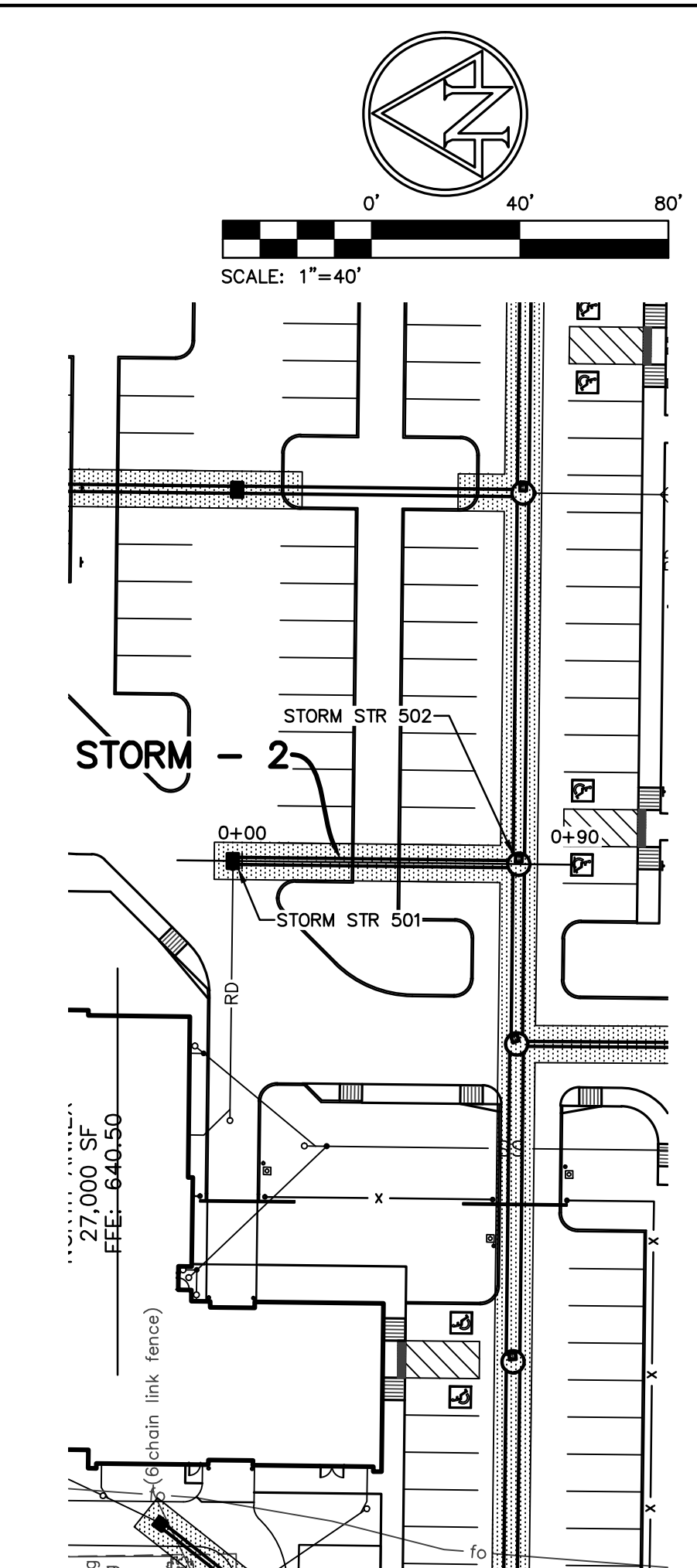
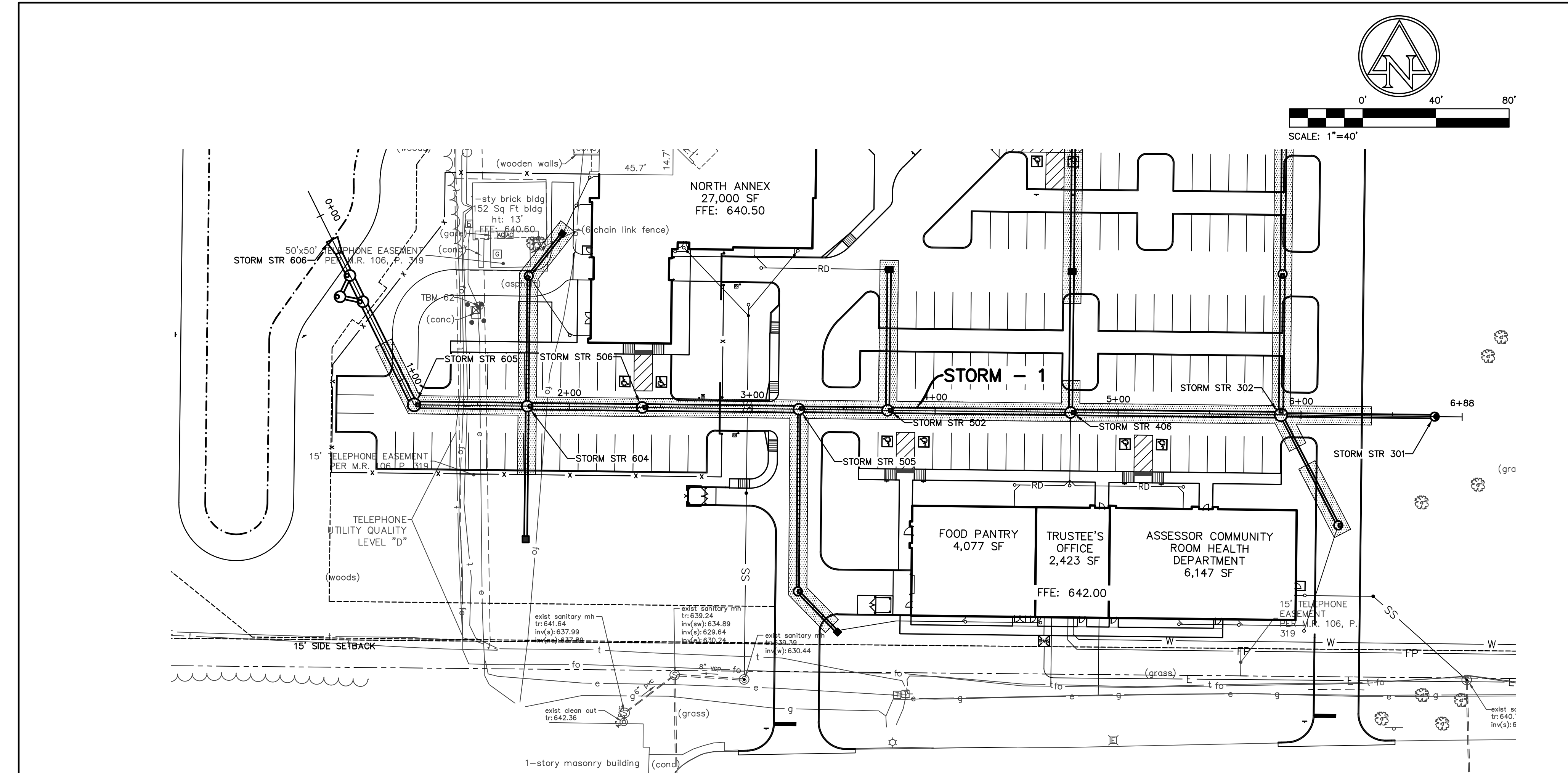
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INDIANA UNDERGROUND



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 PLOT DATE: 8/7/2018 9:16 AM
 PLOT SCALE: 1"=40'



EXISTING LEGEND

air conditioner	telephone handhole
bush	telephone manhole
curb inlet	telephone marker sign
clean out	telephone pedestal
drainage manhole	transformer
electric meter box	tree
electric cross box	traffic manhole
flag pole	water manhole
fire hydrant	water valve
ground light	yard light
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guy wire	inv invert elevation
inlet	rcp reinforced concrete pipe
light pole	cmp corrugated metal pipe
pole	vcp clay pipe
post	pvc plastic pipe
power pole	fo buried fiber optic line
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	e buried electric line
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	ctv buried television line
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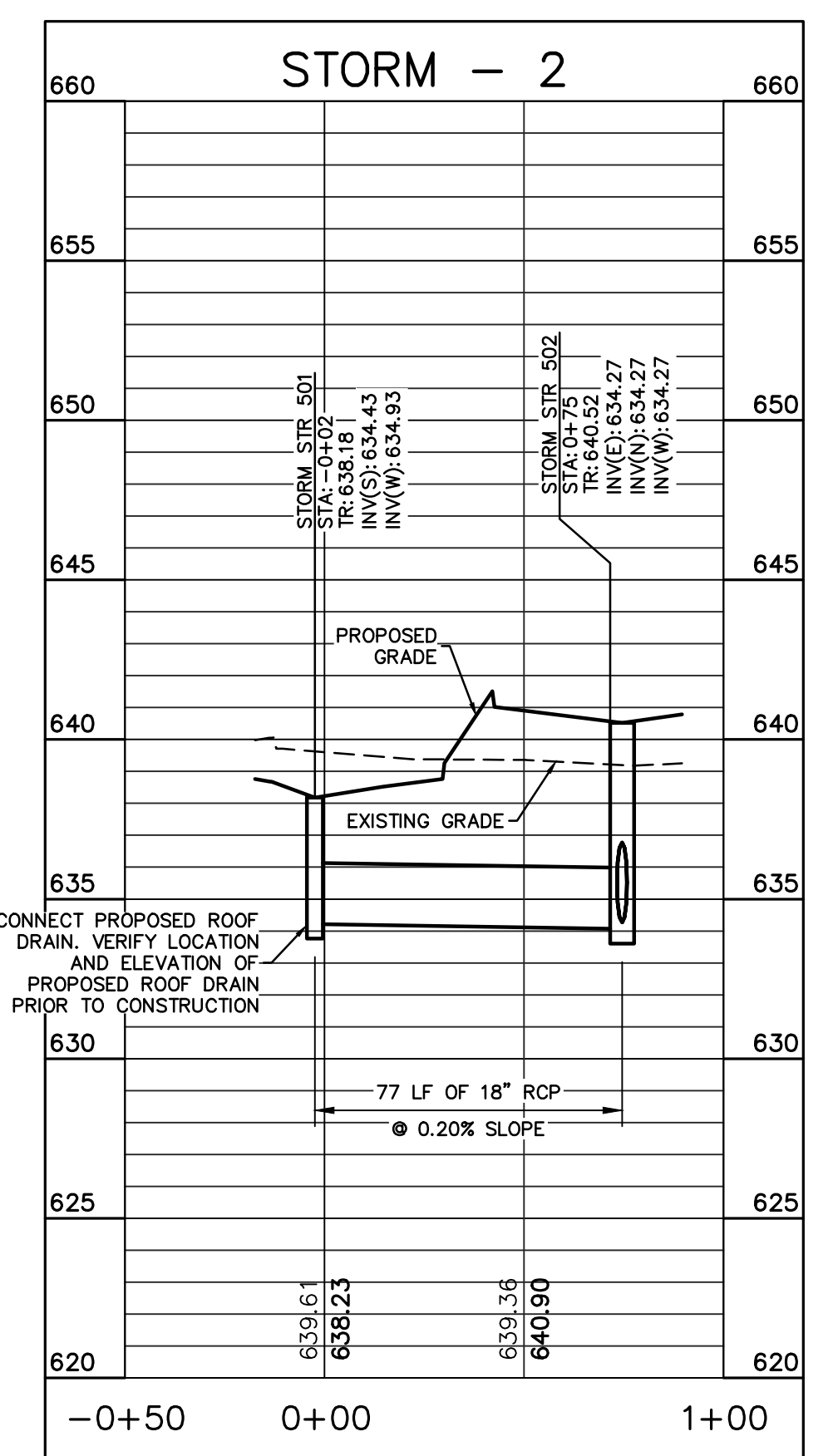
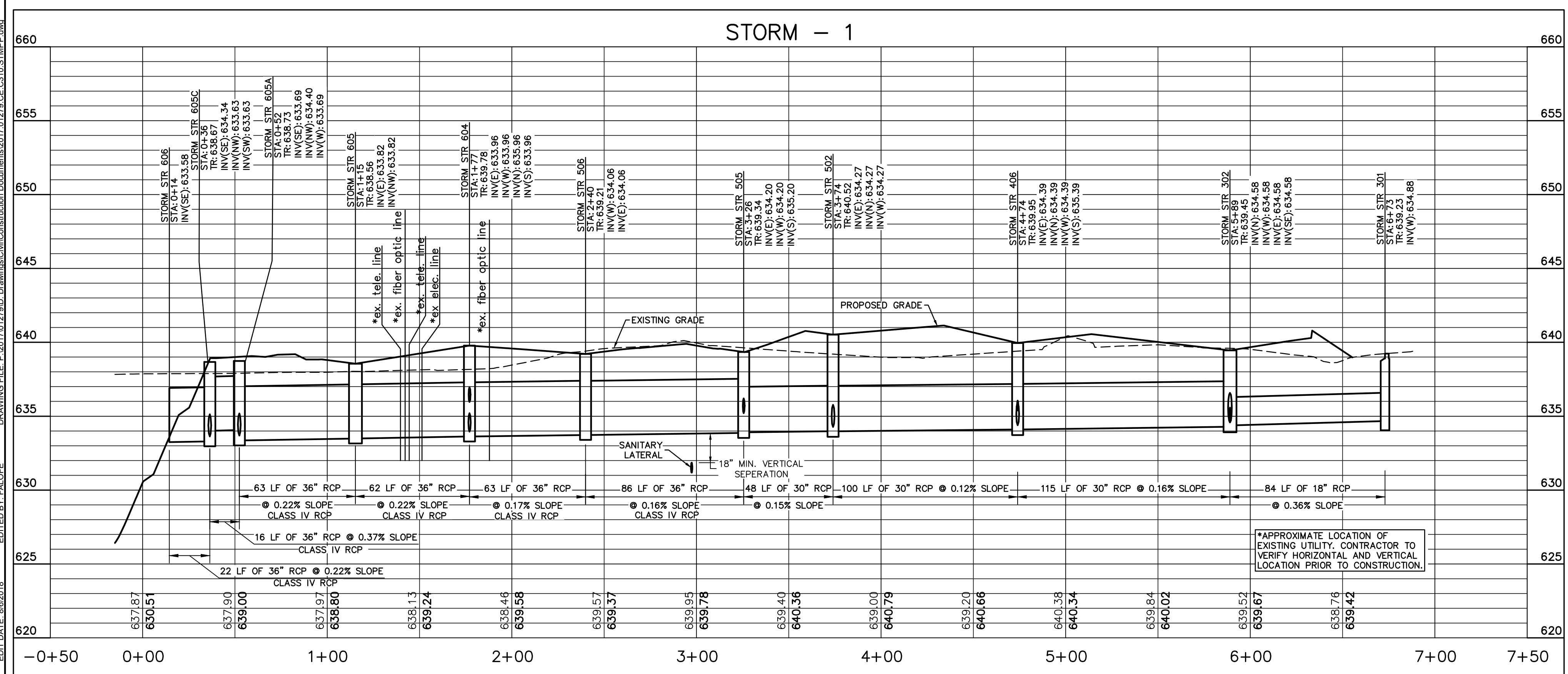
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ELEV: 638.905

PLAN & PROFILE LEGEND

GRANULAR BACKFILL REQUIRED: THE GRANULAR BACKFILL AREAS SHOWN IN PLAN VIEW ARE AN ESTIMATE PROVIDED BY THE ENGINEER. EXACT LIMITS OF GRANULAR BACKFILL ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR BASED ON TRENCH WIDTH AND AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.

PLAN & PROFILE NOTES

- LOCATIONS OF ALL EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IMMEDIATELY IF ANY CONFLICT EXISTS.
- ALL STORM PIPES WITH LESS THAN 24" OF COVER SHALL BE CLASS IV RCP.



ISSUANCE INDEX

DATE:	08/17/2018
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

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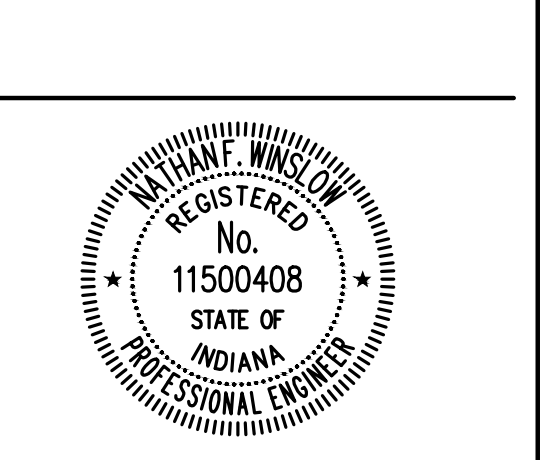
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PORTER COUNTY
NORTH ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



Nathan Winslow
CERTIFIED BY

ISSUANCE INDEX

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REVISION SCHEDULE

NO.	DESCRIPTION	DATE

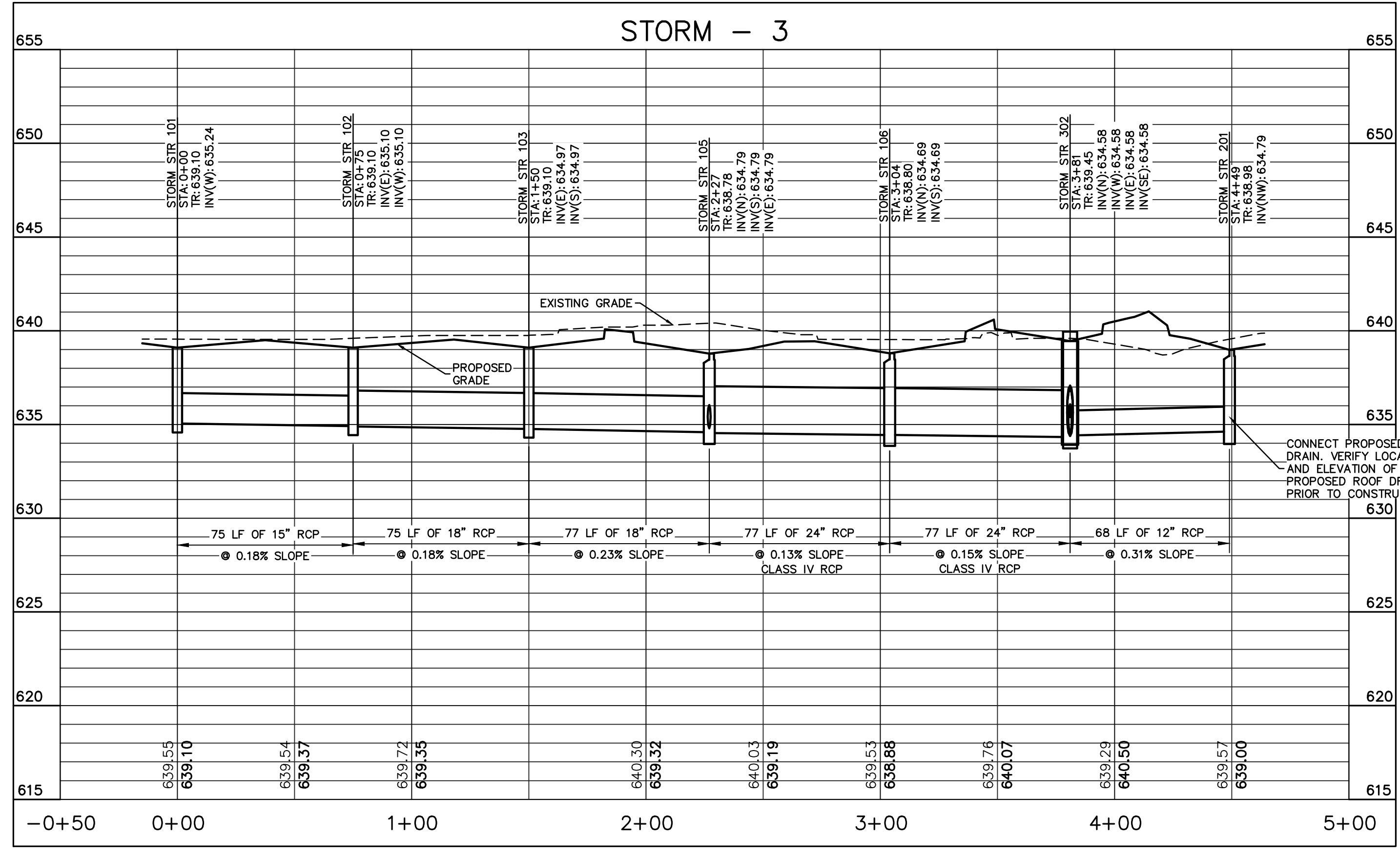
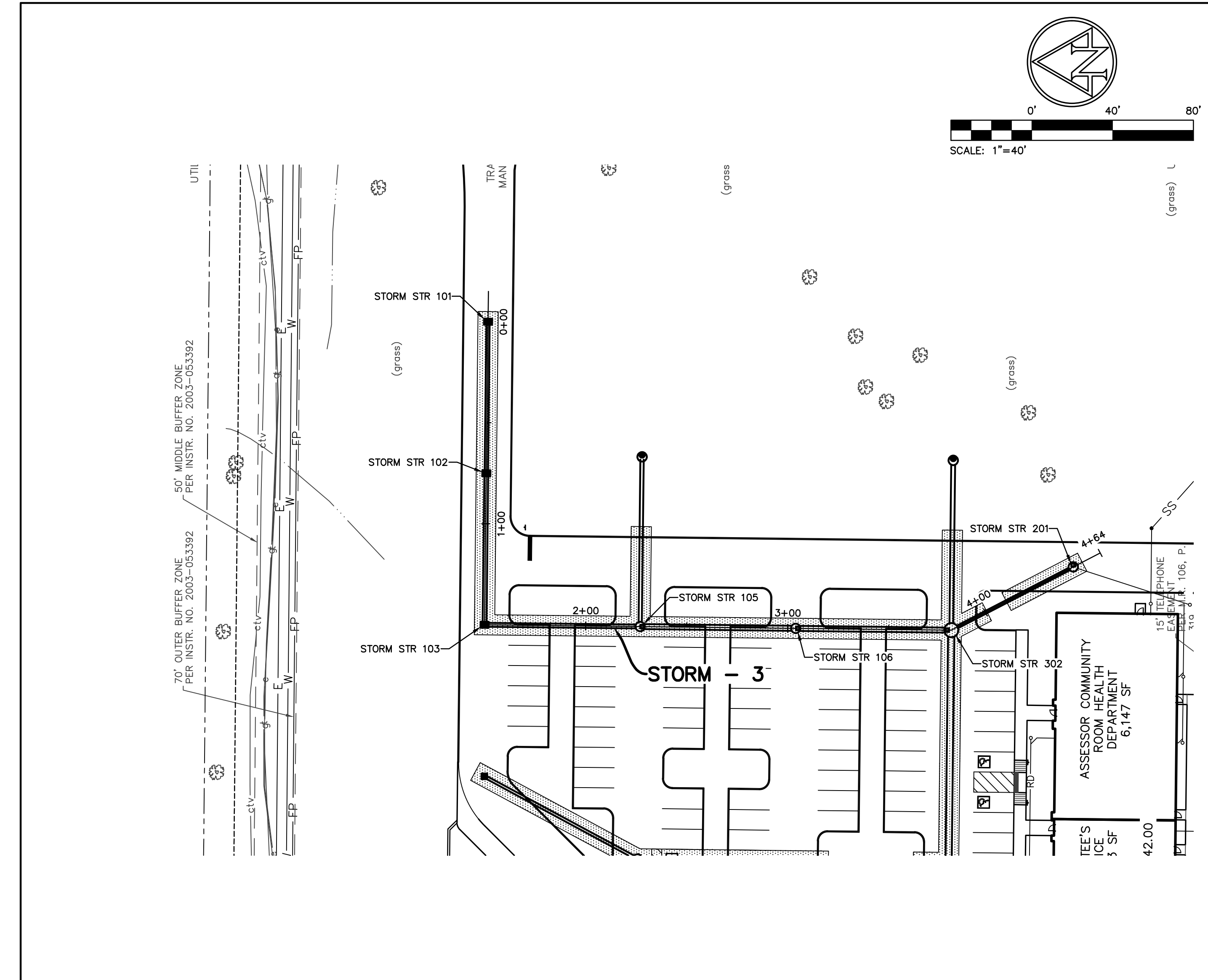
Project Number 2017.01279

STORM SEWER PLAN AND PROFILES

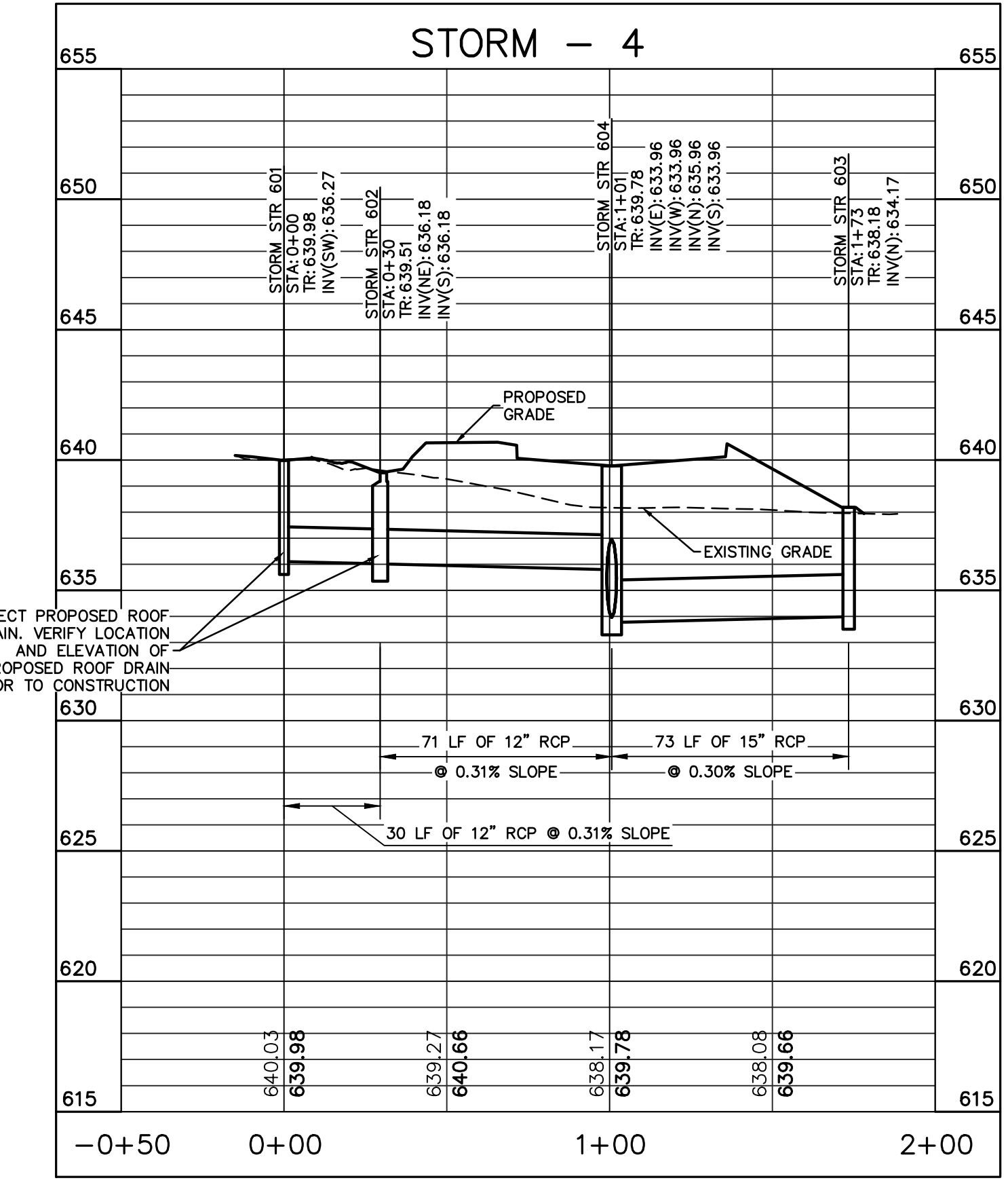
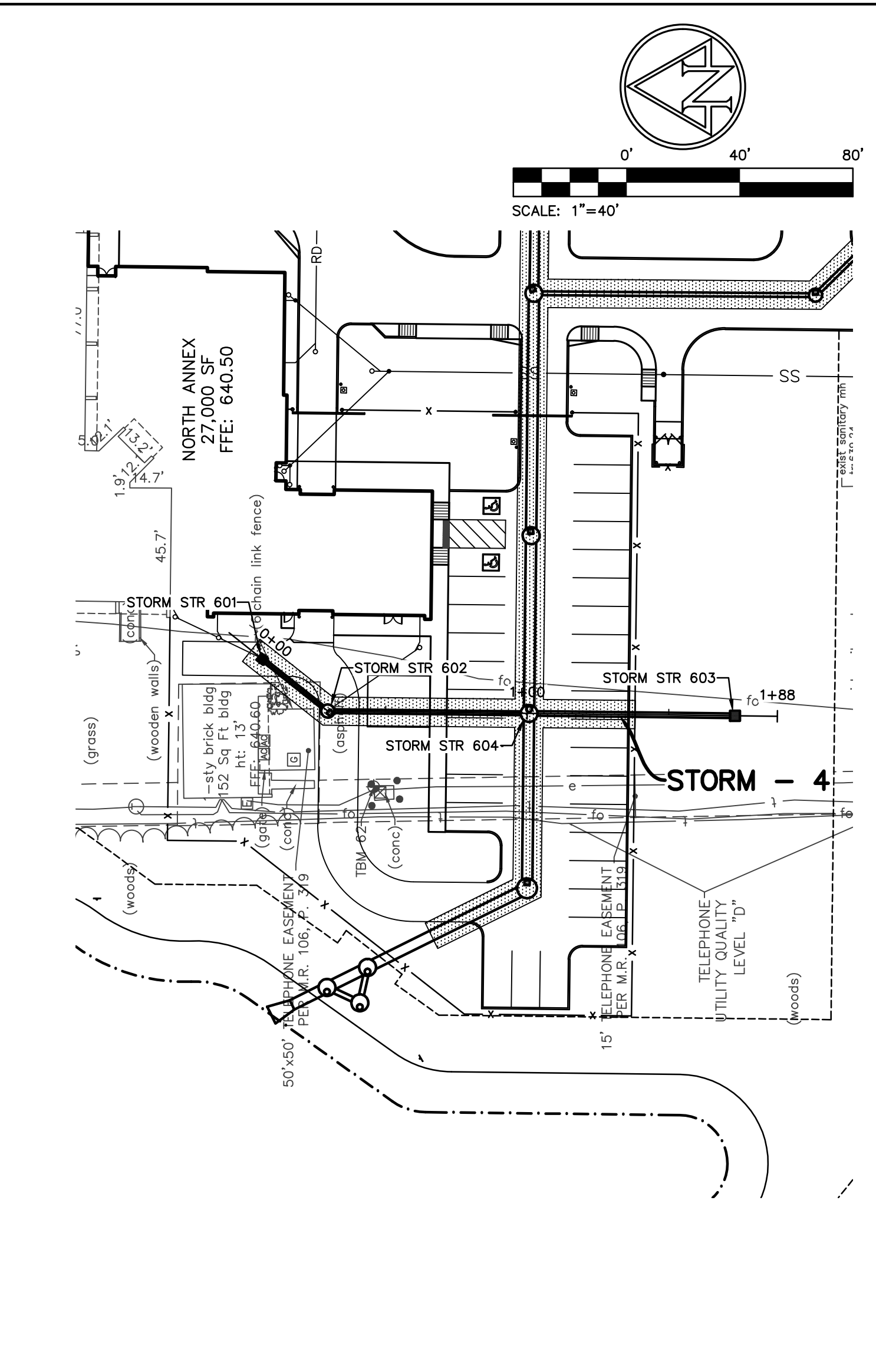
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 EDITED BY: FALDFE
 DATE: 8/6/2018



SCALE: 1" = 40' (HORIZ)
 1" = 5' (VERT)



SCALE: 1" = 40' (HORIZ)
 1" = 5' (VERT)

- ### EXISTING LEGEND
- air conditioner
 - bush
 - curb inlet
 - clean out
 - drainage manhole
 - electric meter box
 - electric cross box
 - flag pole
 - fire hydrant
 - ground light
 - gas meter
 - guy wire
 - inlet
 - light pole
 - pole
 - post
 - power pole
 - sign
 - sanitary manhole
 - telephone handhole
 - telephone manhole
 - telephone marker sign
 - telephone pedestal
 - transformer
 - tree
 - traffic manhole
 - water manhole
 - water valve
 - yard light
 - tr top of rim elevation
 - inv invert elevation
 - rcp reinforced concrete pipe
 - cmp corrugated metal pipe
 - vcp clay pipe
 - pvc plastic pipe
 - fo buried fiber optic line
 - t buried telephone line
 - g buried gas line
 - e buried electric line
 - w buried water line
 - ctv buried television line
 - oh overhead electric line

- ### BENCHMARK DATA
- (88 DATUM)
- TBM 60**
 CUT SQUARE SET EAST SIDE 24" DIAMETER CONCRETE LIGHT BASE 24" ABOVE GRADE AT SOUTH SIDE OF NORTH ENTRANCE TO PORTER COUNTY ANNEX; ±75' WEST OF & WILLOW SPRING ROAD AND ±30' SOUTH OF NORTH ENTRANCE.
 ELEV: 641.636
- TBM 61**
 BOAT SPIKE SET ON NORTH SIDE UTILITY POLE #860-551 AT NW CORNER WILLOW SPRING DRIVE AND HOSPITAL ENTRANCE ROAD; ±50' WEST OF & WILLOW SPRING DRIVE AND ±50' NORTH OF & HOSPITAL DRIVE.
 ELEV: 641.205
- TBM 62**
 CUT SQUARE SET IN NORTHEAST CORNER OF CONCRETE TRANSFORMER PAD SOUTH OF FRONTIER COMMUNICATIONS BUILDING; ±75' WEST OF DRIVE TO BUILDING AND ±50' SOUTH OF FRONTIER BUILDING.
 ELEV: 638.905

- ### PLAN & PROFILE LEGEND
- GRANULAR BACKFILL REQUIRED: THE GRANULAR BACKFILL AREAS SHOWN IN PLAN VIEW ARE AN ESTIMATE PROVIDED BY THE ENGINEER. EXACT LIMITS OF GRANULAR BACKFILL ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR BASED ON TRENCH WIDTH AND AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.

- ### PLAN & PROFILE NOTES
- LOCATIONS OF ALL EXISTING UTILITIES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IMMEDIATELY IF ANY CONFLICT EXISTS.
 - ALL STORM PIPES WITH LESS THAN 24" OF COVER SHALL BE CLASS IV RCP.

GENERAL NOTES:
 1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
 2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
 3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

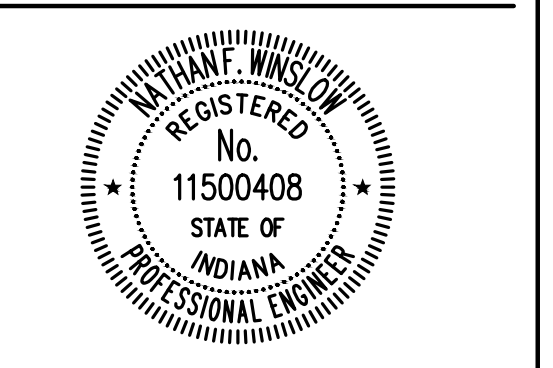
!! CAUTION !!
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CALL TOLL FREE
 811 OR 1-800-382-5544
 - INDIANA UNDERGROUND -



PORTER COUNTY NORTH ANNEX

3560 WILLOWCREEK RD
 PORTAGE, IN 46368



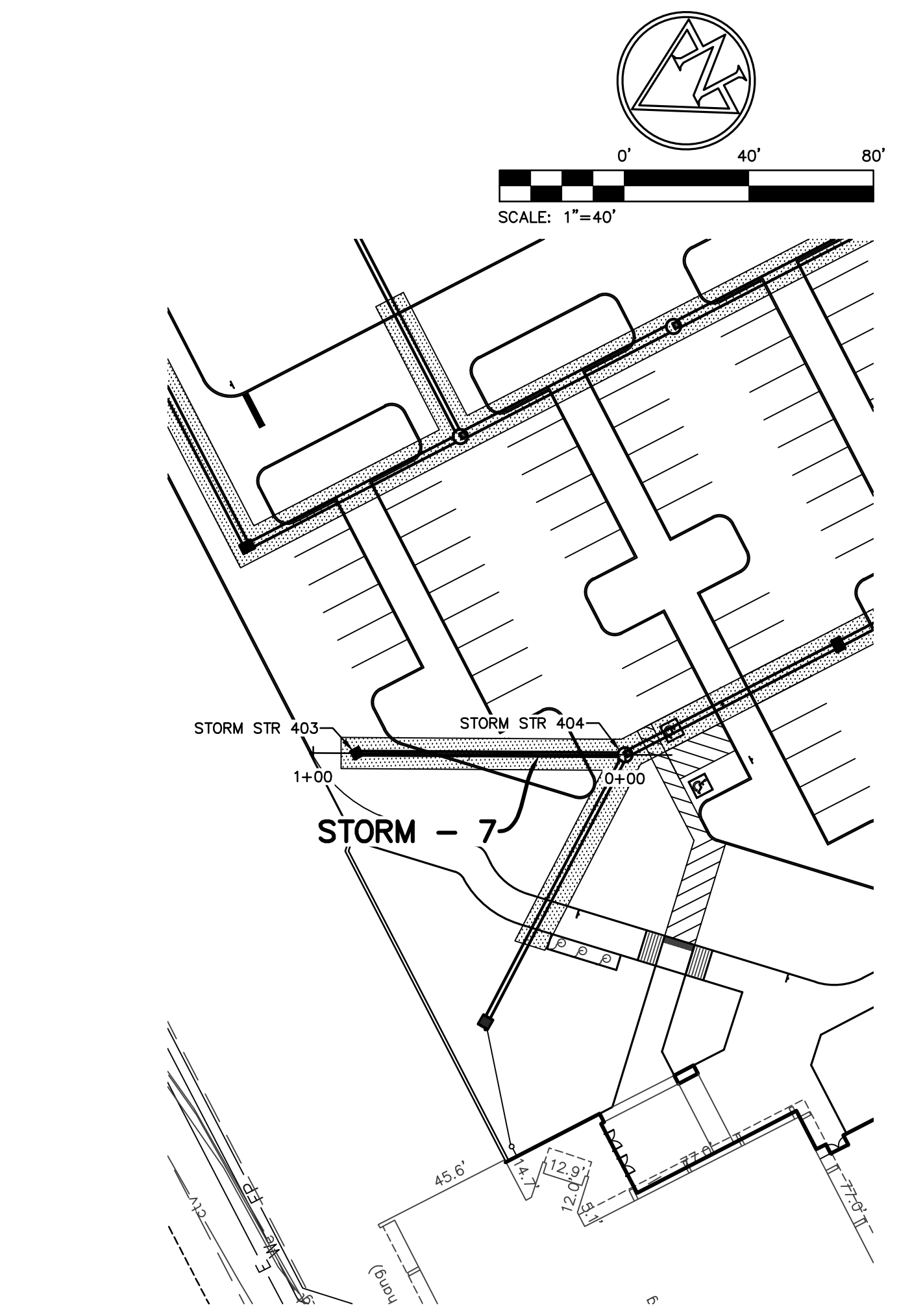
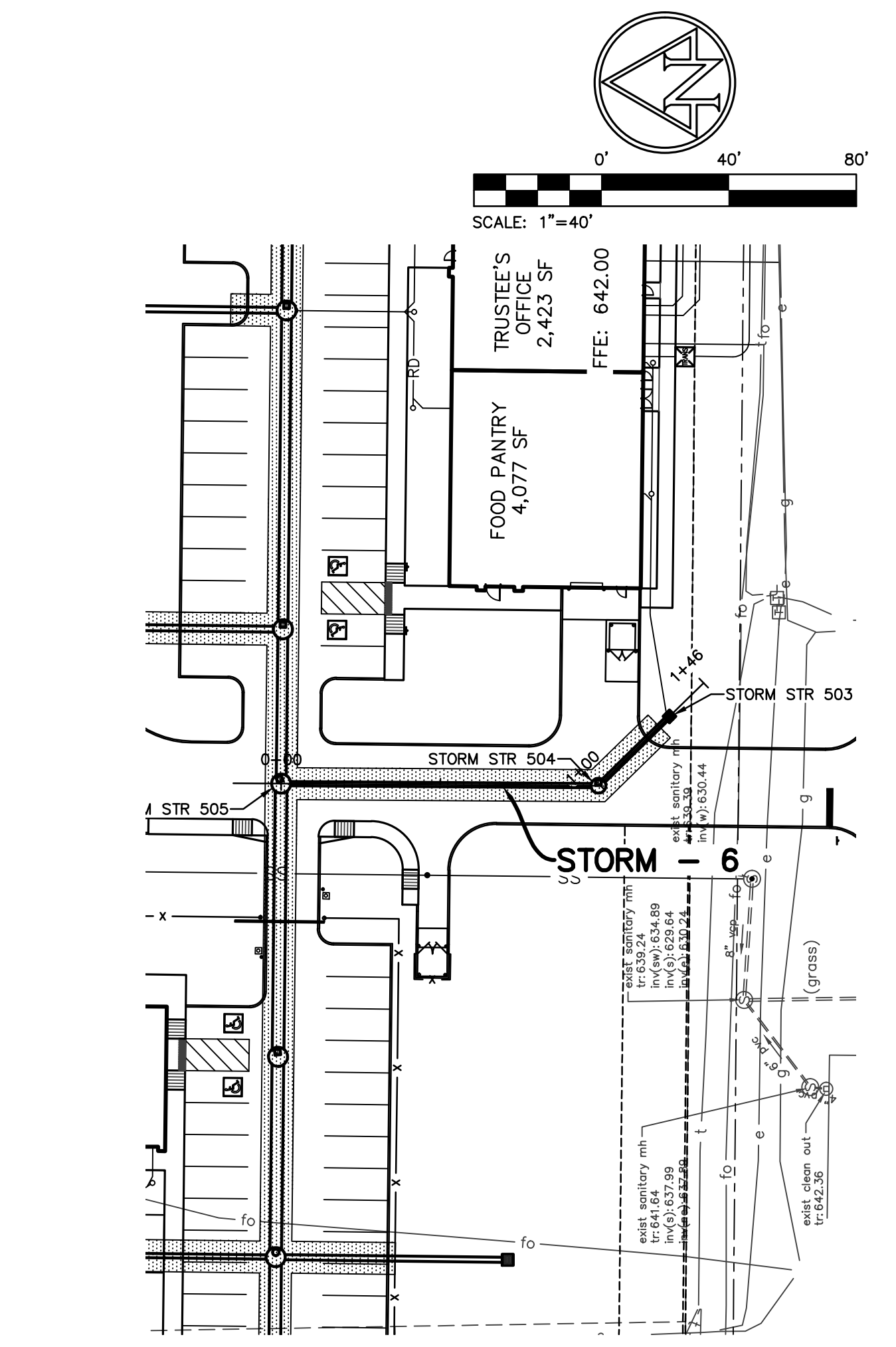
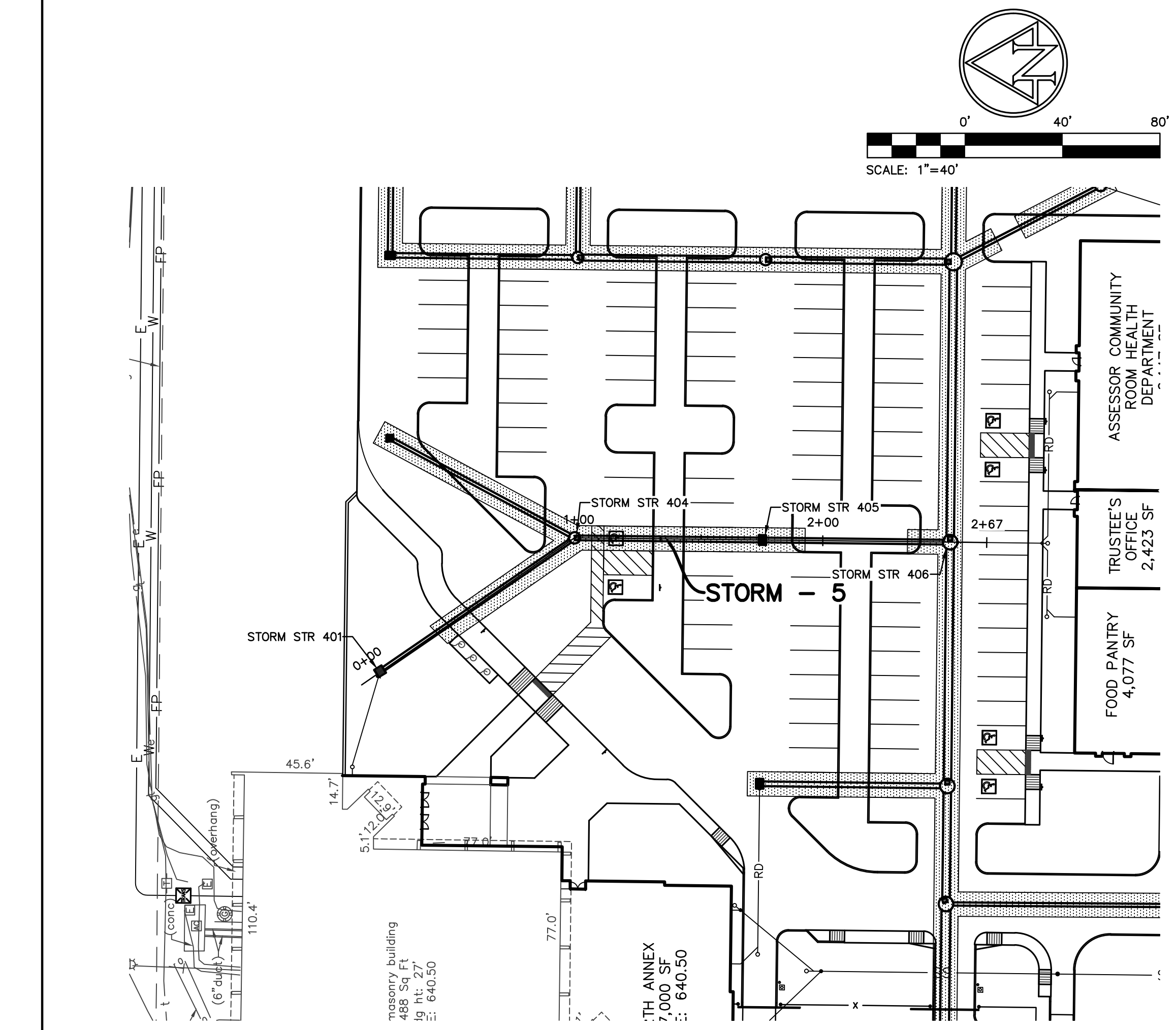
ISSUANCE INDEX	
DATE:	08/17/2018
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

STORM SEWER PLAN AND PROFILES

C311

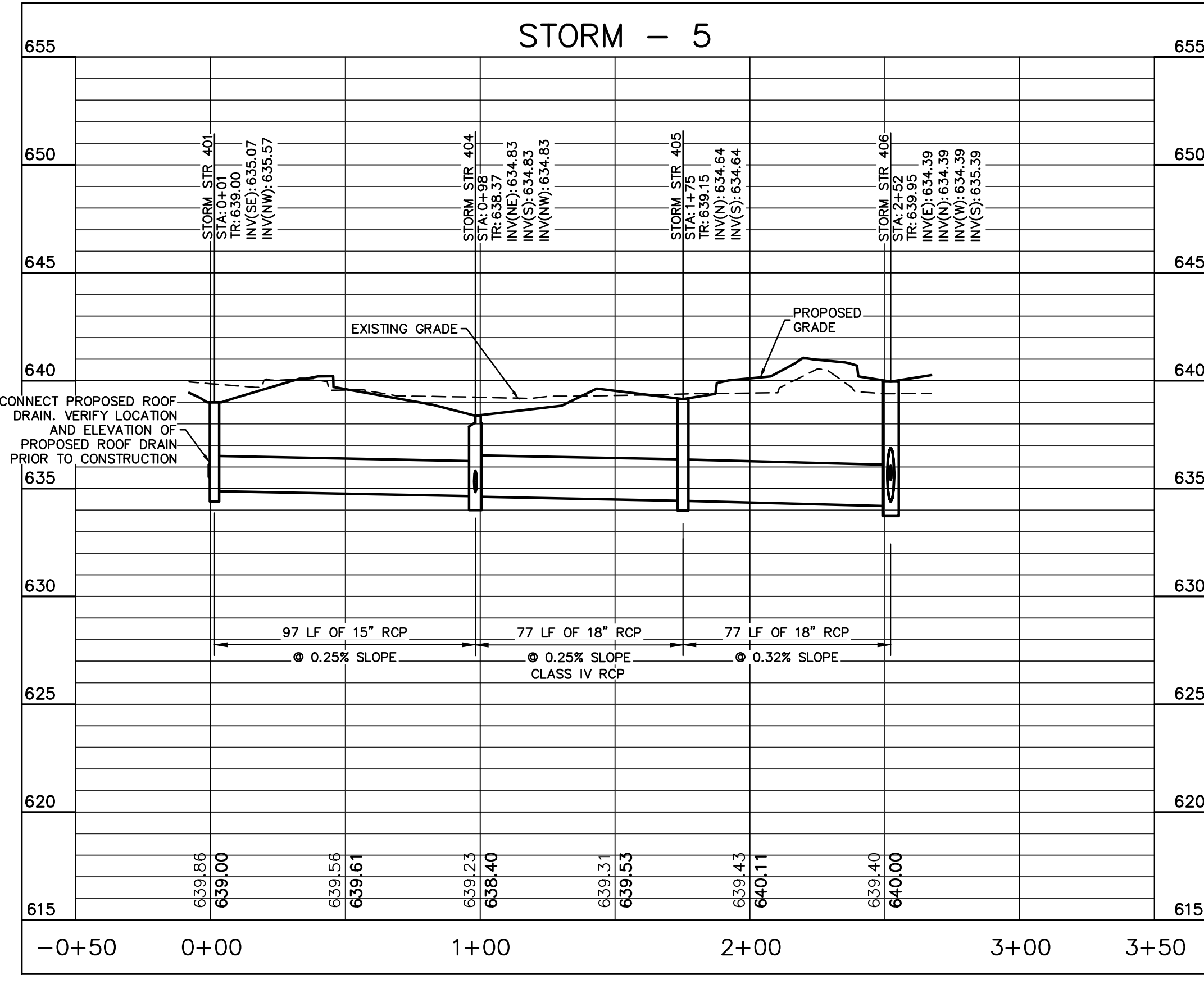


- ### EXISTING LEGEND
- air conditioner
 - bush
 - curb inlet
 - clean out
 - drainage manhole
 - electric meter box
 - electric cross box
 - flag pole
 - fire hydrant
 - ground light
 - gas meter
 - guy wire
 - inlet
 - light pole
 - pole
 - power pole
 - sign
 - sanitary manhole
 - telephone handhole
 - telephone manhole
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 - vcp clay pipe
 - pvc plastic pipe
 - fo buried fiber optic line
 - t buried telephone line
 - g buried gas line
 - e buried electric line
 - w buried water line
 - ctv buried television line
 - ohe overhead electric line

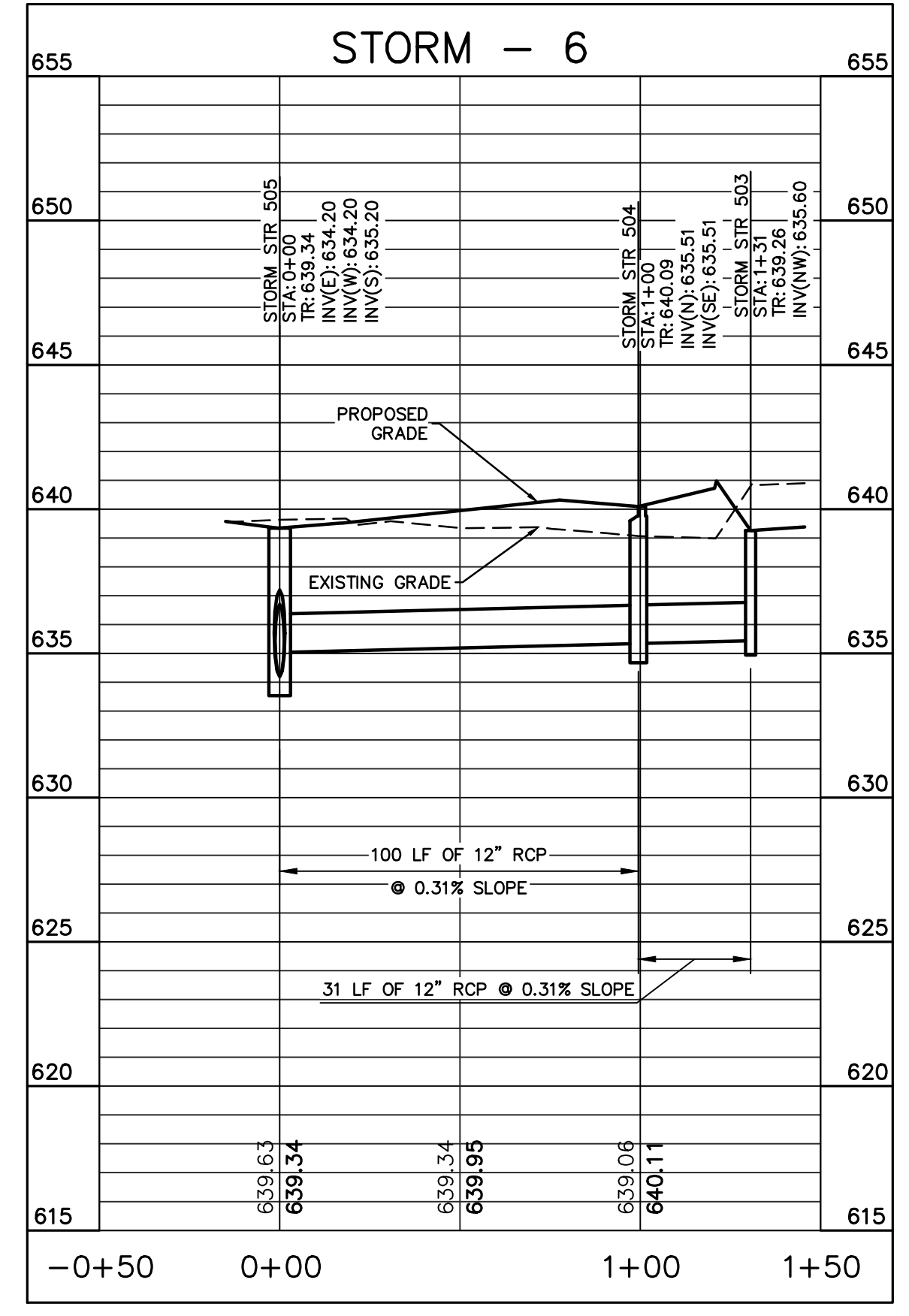
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- (88 DATUM)
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CUT SQUARE SET EAST SIDE 24" DIAMETER CONCRETE LIGHT BASE 24" ABOVE GRADE AT SOUTH SIDE OF NORTH ENTRANCE TO PORTER COUNTY ANNEX; ±75' WEST OF & WILLOW SPRING ROAD AND ±30' SOUTH OF NORTH ENTRANCE.
ELEV: 641.636
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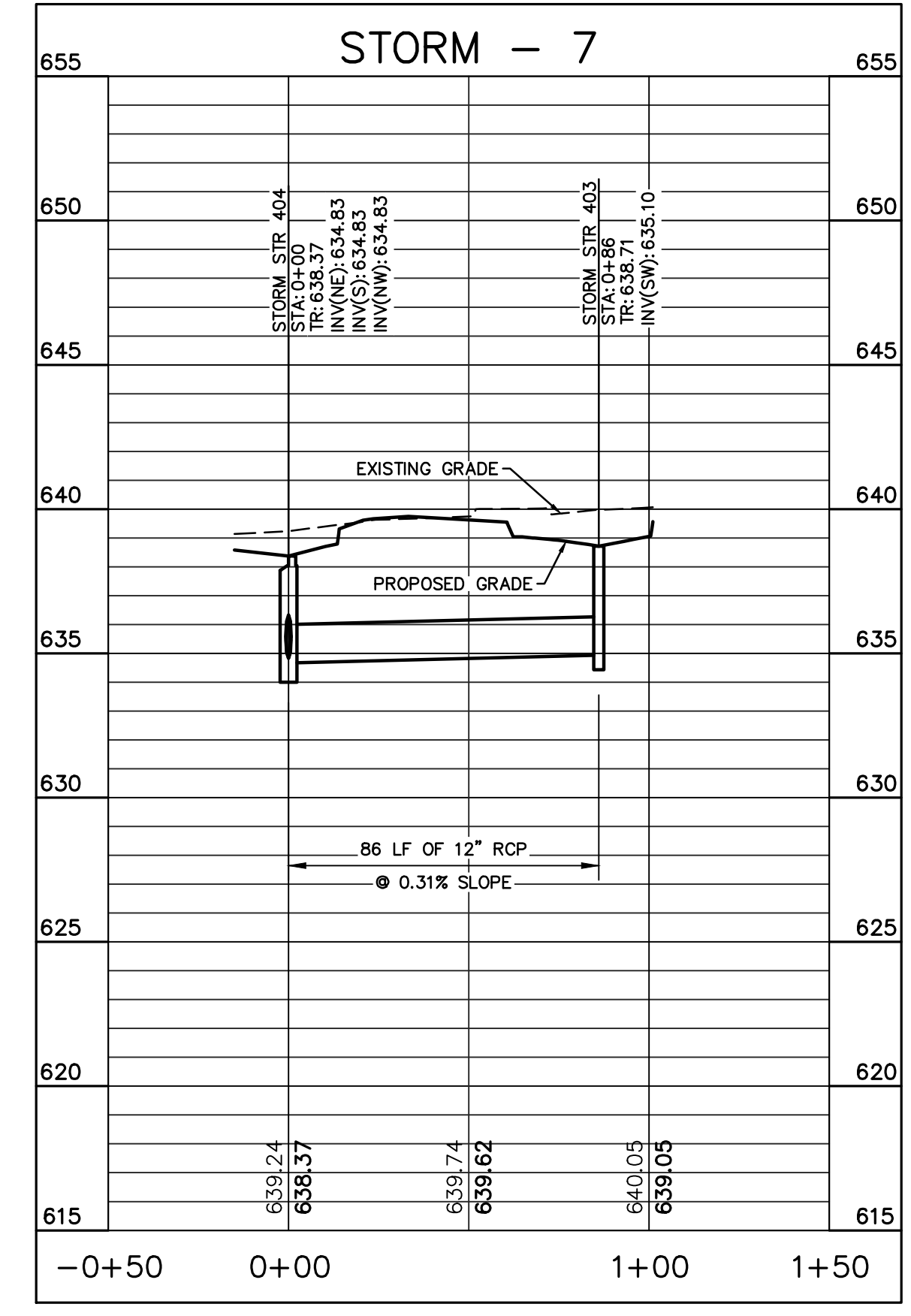
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SCALE: 1" = 40' (HORIZ)
1" = 5' (VERT)



SCALE: 1" = 40' (HORIZ)
1" = 5' (VERT)



SCALE: 1" = 40' (HORIZ)
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CALL TOLL FREE
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INDIANA UNDERGROUND



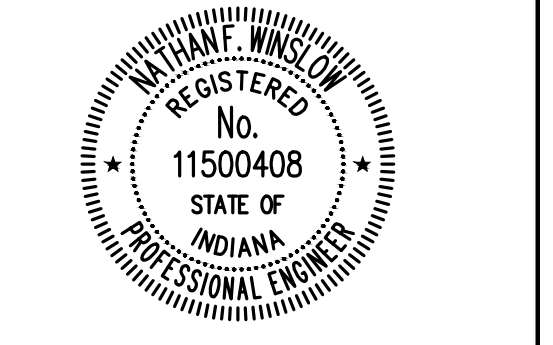
155 Indiana Avenue
Valparaiso, IN 46383



7260 Shadeland Station | Indianapolis, Indiana 46256
TEL 317.547.5660 | FAX 317.543.0270
www.structurepoint.com

PORTER COUNTY NORTH ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



Nathan Winslow
CERTIFIED BY

ISSUANCE INDEX	
DATE:	08/17/2018
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

STORM SEWER PLAN AND PROFILES

C312



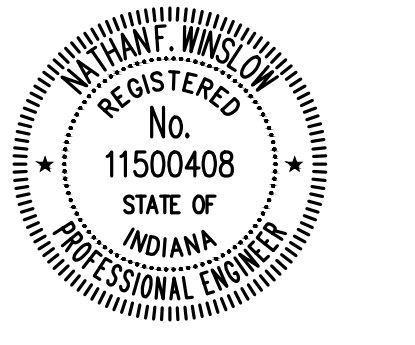
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TEL 317.647.8680 | FAX 317.543.0270
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**PORTER COUNTY
NORTH ANNEX**

3560 WILLOWCREEK RD
PORTAGE, IN 46368



Nathan Winslow
CERTIFIED BY

ISSUANCE INDEX	
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PROJECT PHASE:	CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

**STORM SEWER PLAN
AND PROFILES AND
DATA TABLE**

C313

EXISTING LEGEND

- air conditioner
- bush
- curb inlet
- clean out
- drainage manhole
- electric meter box
- electric cross box
- flag pole
- fire hydrant
- ground light
- gas meter
- guy wire
- inlet
- light pole
- pole
- post
- power pole
- sign
- sanitary manhole
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- SEE DETAIL

PLAN & PROFILE NOTES

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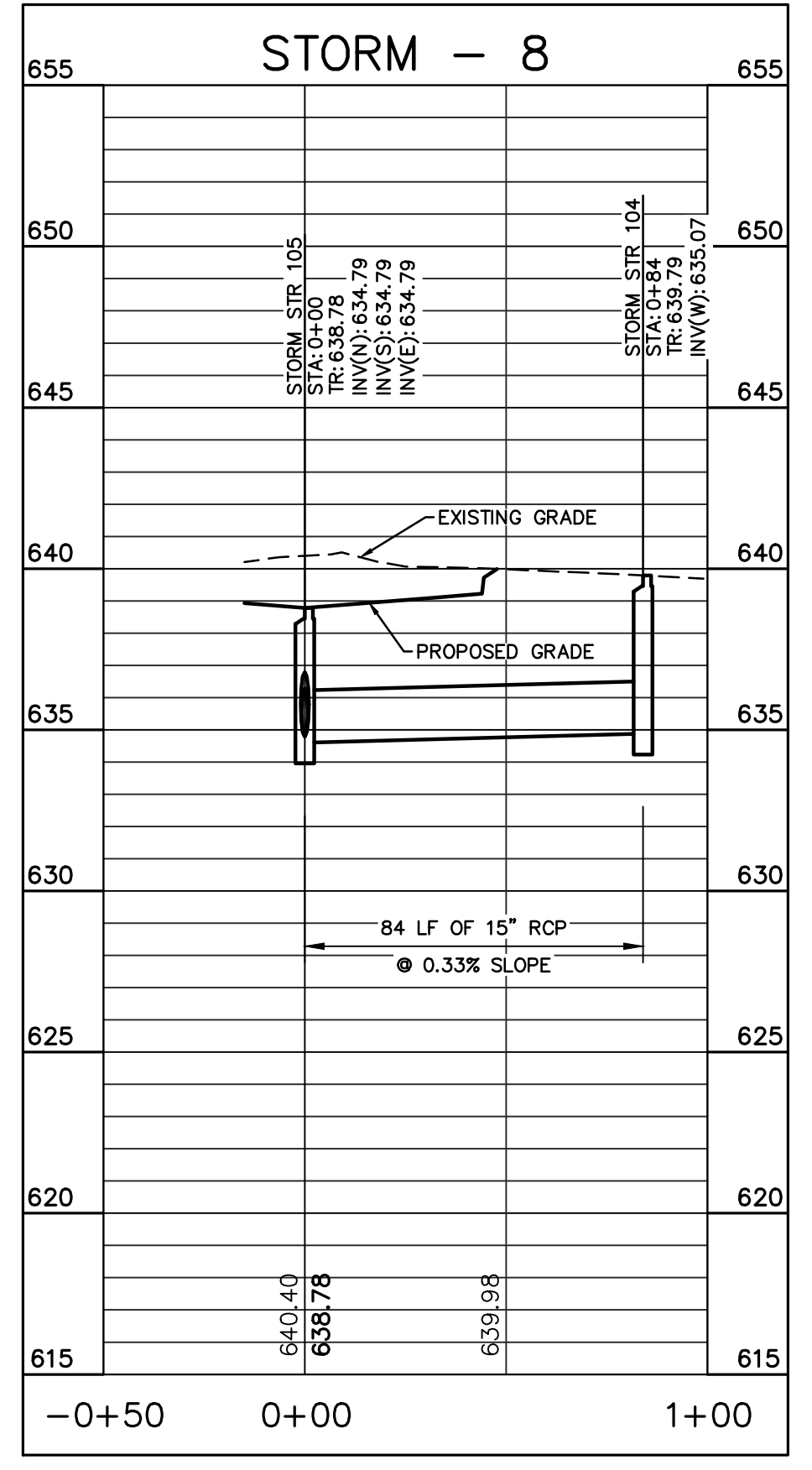
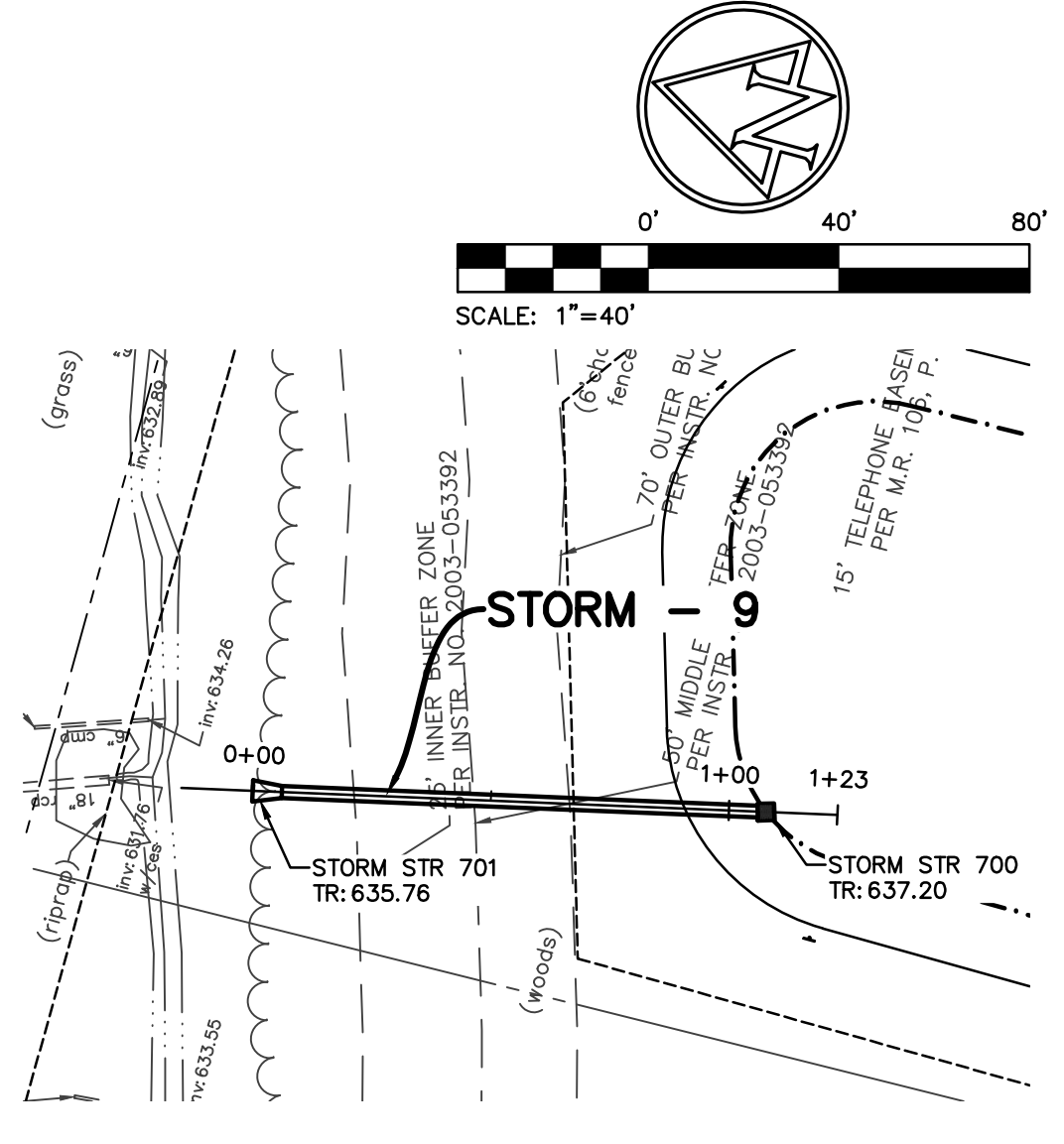
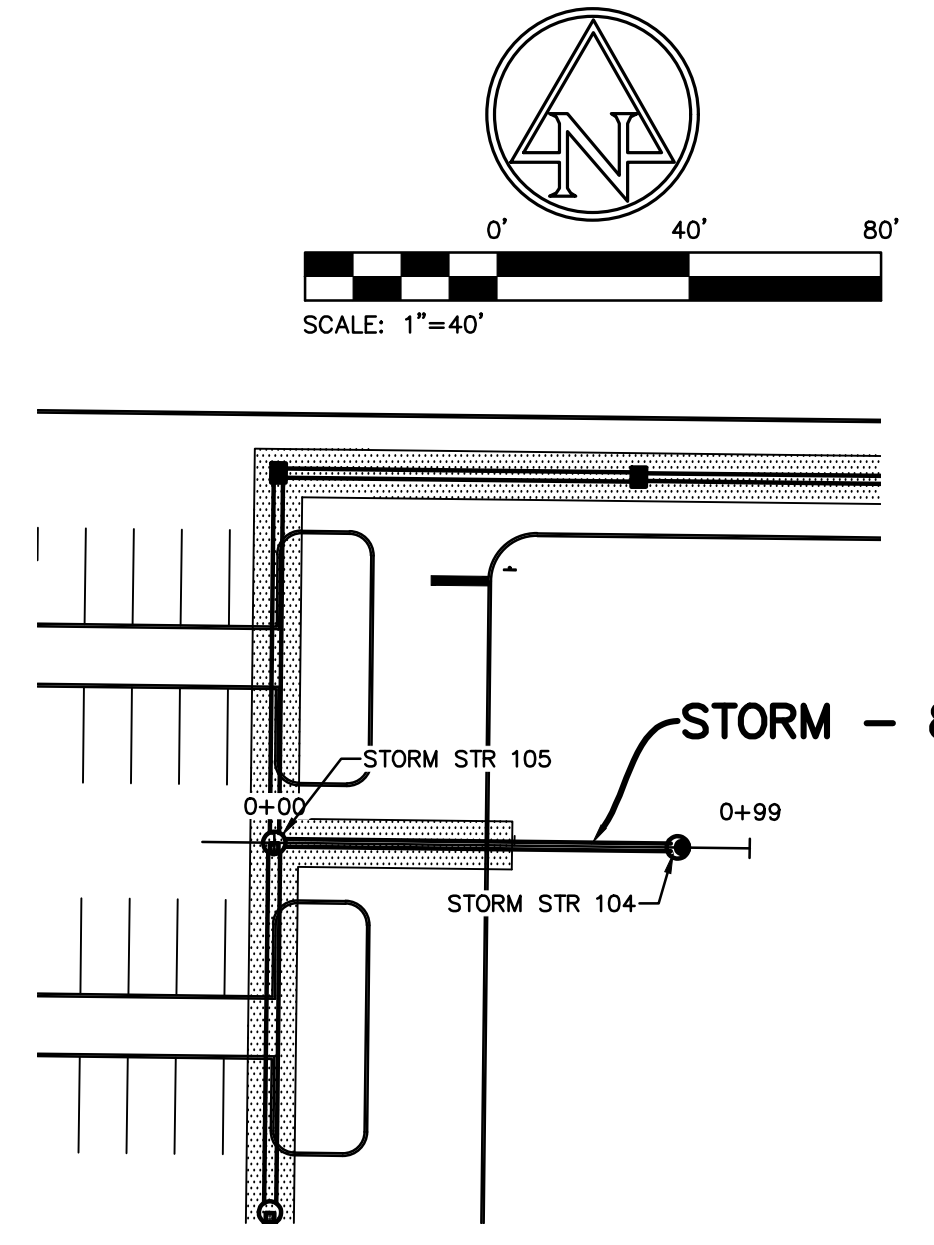
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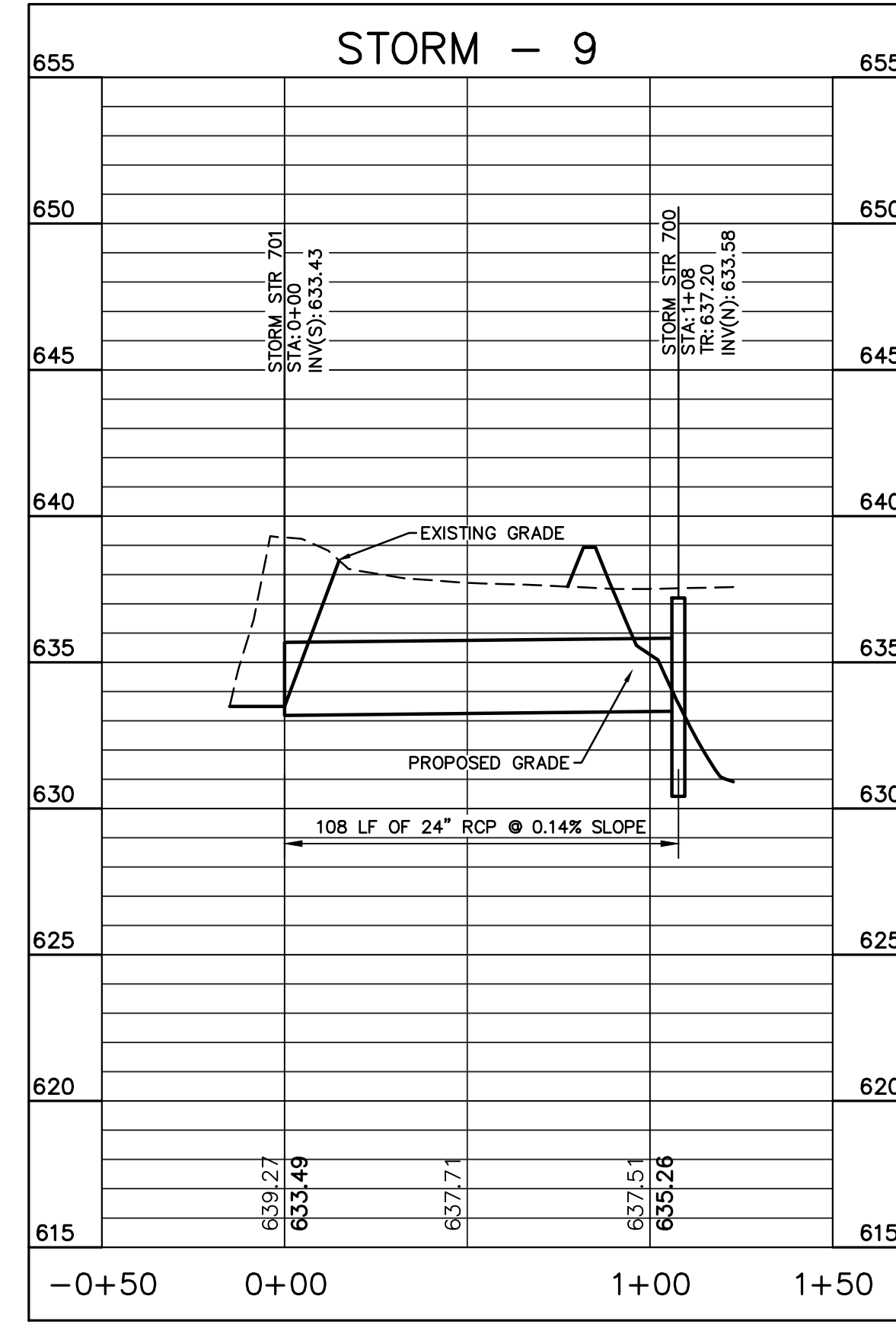
CALL TOLL FREE
"811" OR 1-800-382-5544
INDIANA UNDERGROUND

NOTE: ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE-DRAINS TO WATERWAY"

STR. NO.	STRUCTURE / CASTING TYPE	T.O.R.	INCOMING PIPE DATA (DIRECTION) [FROM STR]	OUTGOING PIPE DATA (DIRECTION) [TO STR]	OUTGOING PIPE L.F.	OUTGOING PIPE SIZE	OUTGOING GRADE (%)	CONNECT TO STRUCT	REMARKS
101	TYPE "J" INLET / R-3455-C	639.10	15" RCP 635.24 (W) [102]	15" RCP 635.10 (W) [103]	75'	15"	0.18%	102	
102	TYPE "M" INLET / R-3455-C	639.10	15" RCP 635.10 (E) [101]	18" RCP 635.10 (W) [103]	75'	18"	0.18%	103	
103	TYPE "M" INLET / R-3455-C	639.10	18" RCP 634.97 (E) [102]	18" RCP 634.97 (S) [105]	77'	18"	0.23%	105	
104	TYPE "C" MANHOLE / R-4342	639.79	15" RCP 635.07 (W) [105]	15" RCP 635.07 (W) [105]	84'	15"	0.33%	105	
105	TYPE "C" MANHOLE / R-3472	638.78	18" RCP 634.79 (N) [103] 15" RCP 634.79 (E) [104]	24" RCP 634.79 (S) [106]	77'	24"	0.13%	106	
106	TYPE "C" MANHOLE / R-3472	638.80	24" RCP 634.69 (N) [105]	24" RCP 634.69 (S) [302]	77'	24"	0.15%	302	
201	TYPE "C" MANHOLE / R-3472	638.98		12" RCP 634.79 (NW) [302]	68'	12"	0.31%	302	CONNECT TO ROOF DRAIN
301	TYPE "C" MANHOLE / R-4342	639.23	18" RCP 634.88 (W) [302]	18" RCP 634.88 (W) [302]	84'	18"	0.36%	302	
302	TYPE "K" MANHOLE / R-3472	639.45	24" RCP 634.58 (N) [106] 18" RCP 634.58 (E) [301] 12" RCP 634.58 (SE) [201]	30" RCP 634.58 (W) [406]	115'	30"	0.16%	406	
401	TYPE "F" INLET / R-4215-C	639.00		15" RCP 635.07 (SE) [404] 6" HDPE 635.57 (NW) []	97' 3'	15" 6"	0.25% 0.00%	404	CONNECT TO ROOF DRAIN
403	TYPE "A" INLET / R-3472	638.71	12" RCP 635.10 (SW) [404]	12" RCP 635.10 (SW) [404]	86'	12"	0.31%	404	
404	TYPE "C" MANHOLE / R-3472	638.37	12" RCP 634.83 (NE) [403] 15" RCP 634.83 (NW) [401]	18" RCP 634.83 (S) [405]	77'	18"	0.25%	405	
405	TYPE "M" INLET / R-3455-C	639.15	18" RCP 634.64 (N) [404]	18" RCP 634.64 (S) [406]	77'	18"	0.32%	406	
406	TYPE "J" MANHOLE / R-3472	639.95	30" RCP 634.39 (E) [302] 18" RCP 634.39 (N) [405]	30" RCP 634.39 (W) [502] 8" HDPE 635.39 (S) []	100' 3'	30" 8"	0.12% 0.00%	502	
501	TYPE "J" INLET / R-3455-C	638.18		18" RCP 634.43 (S) [502] 6" HDPE 634.93 (W) []	77' 2'	18" 6"	0.20% 0.00%	502	CONNECT TO ROOF DRAIN
502	TYPE "J" MANHOLE / R-3472	640.52	30" RCP 634.27 (E) [406] 18" RCP 634.27 (N) [501]	30" RCP 634.27 (W) [505]	48'	30"	0.15%	505	
503	TYPE "A" INLET / R-4342	639.26		12" RCP 635.60 (NW) [504]	31'	12"	0.31%	504	
504	TYPE "C" MANHOLE / R-3472	640.09	12" RCP 635.51 (SE) [503]	12" RCP 635.51 (N) [505]	100'	12"	0.31%	505	
505	TYPE "J" MANHOLE / R-3472	639.34	30" RCP 634.20 (E) [502] 12" RCP 635.20 (S) [504]	36" RCP 634.20 (W) [506]	86'	36"	0.16%	506	
506	TYPE "J" MANHOLE / R-3472	639.21	36" RCP 634.06 (E) [505]	36" RCP 634.06 (W) [604]	63'	36"	0.17%	604	
601	TYPE "A" INLET / R-3472	639.98		12" RCP 636.27 (SW) [602]	30'	12"	0.31%	602	CONNECT TO ROOF DRAIN
602	TYPE "C" MANHOLE / R-3472	639.51	12" RCP 636.18 (NE) [601]	12" RCP 636.18 (S) [604]	71'	12"	0.31%	604	CONNECT TO ROOF DRAIN
603	TYPE "F" INLET / R-4215-C	638.18		15" RCP 634.17 (N) [604]	73'	15"	0.30%	604	
604	TYPE "J" MANHOLE / R-1772	639.78	36" RCP 633.96 (E) [606] 12" RCP 633.96 (N) [602] 15" RCP 633.96 (S) [603]	36" RCP 633.96 (W) [605]	62'	36"	0.22%	605	
605	TYPE "K" MANHOLE / R-3472	638.56	36" RCP 633.82 (E) [604]	36" RCP 633.82 (NW) [605A]	63'	36"	0.22%	605A	
605A	TYPE "J" MANHOLE / R-1772	638.73	36" RCP 633.69 (SE) [605]	36" RCP 634.40 (NW) [605C] 18" HDPE 633.69 (W) [605B]	16' 13'	36" 18"	0.37% 0.25%	605C 605B	
605B	AQUA-SWLR AS-5	638.93	18" HDPE 633.66 (E) [605A]	18" HDPE 633.66 (NE) [605C]	13'	18"	0.25%	605C	SEE DETAIL
605C	TYPE "J" MANHOLE / R-1772	638.67	36" RCP 634.34 (SE) [605A] 18" HDPE 633.63 (SW) [605B]	36" RCP 633.63 (NW) [606]	22'	36"	0.22%	606	
606	36" CONCRETE END SECTION		36" RCP 633.58 (SE) [605C]						DEBRIS GUARD REQUIRED
700	OUTLET CONTROL STRUCTURE	637.20		24" RCP 633.58 (N) [701]	108'	24"	0.14%	701	SEE DETAIL
701	24" CONCRETE END SECTION		24" RCP 633.43 (S) [700]						DEBRIS GUARD REQUIRED

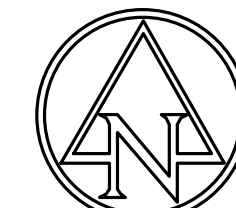


SCALE: 1" = 40' (HORIZ)
1" = 5' (VERT)

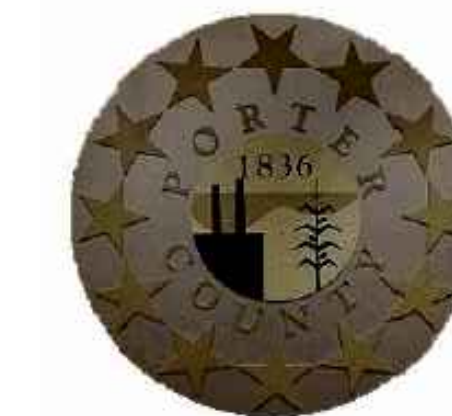


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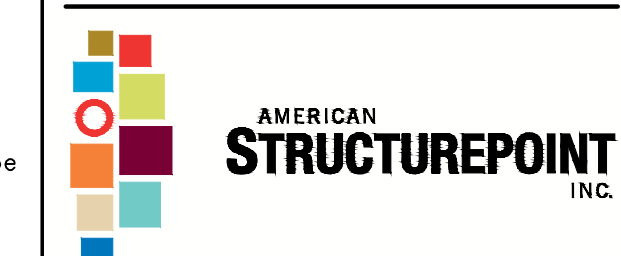
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 EDIT DATE: 8/6/2018
 EDITED BY: FALDFE
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0' 40' 80'
SCALE: 1"=40'



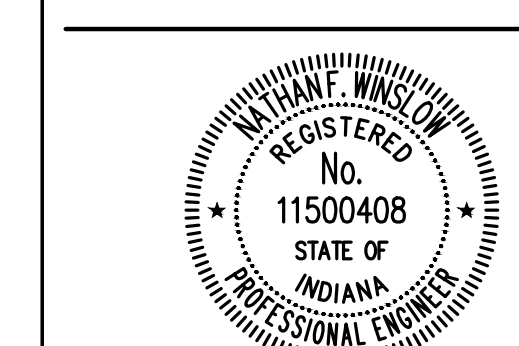
155 Indiana Avenue
Valparaiso, IN 46383



7260 Shadeland Station | Indianapolis, Indiana 46256
TEL 317.647.5680 | FAX 317.543.8270
www.structurepoint.com

PORTER COUNTY NORTH ANNEX

3560 WILLOWCREEK RD PORTAGE, IN 46368



Nathan Winslow
CERTIFIED BY

ISSUANCE INDEX

DATE:
08/17/2018
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2017.01279

UTILITY PLAN

C401

EXISTING LEGEND

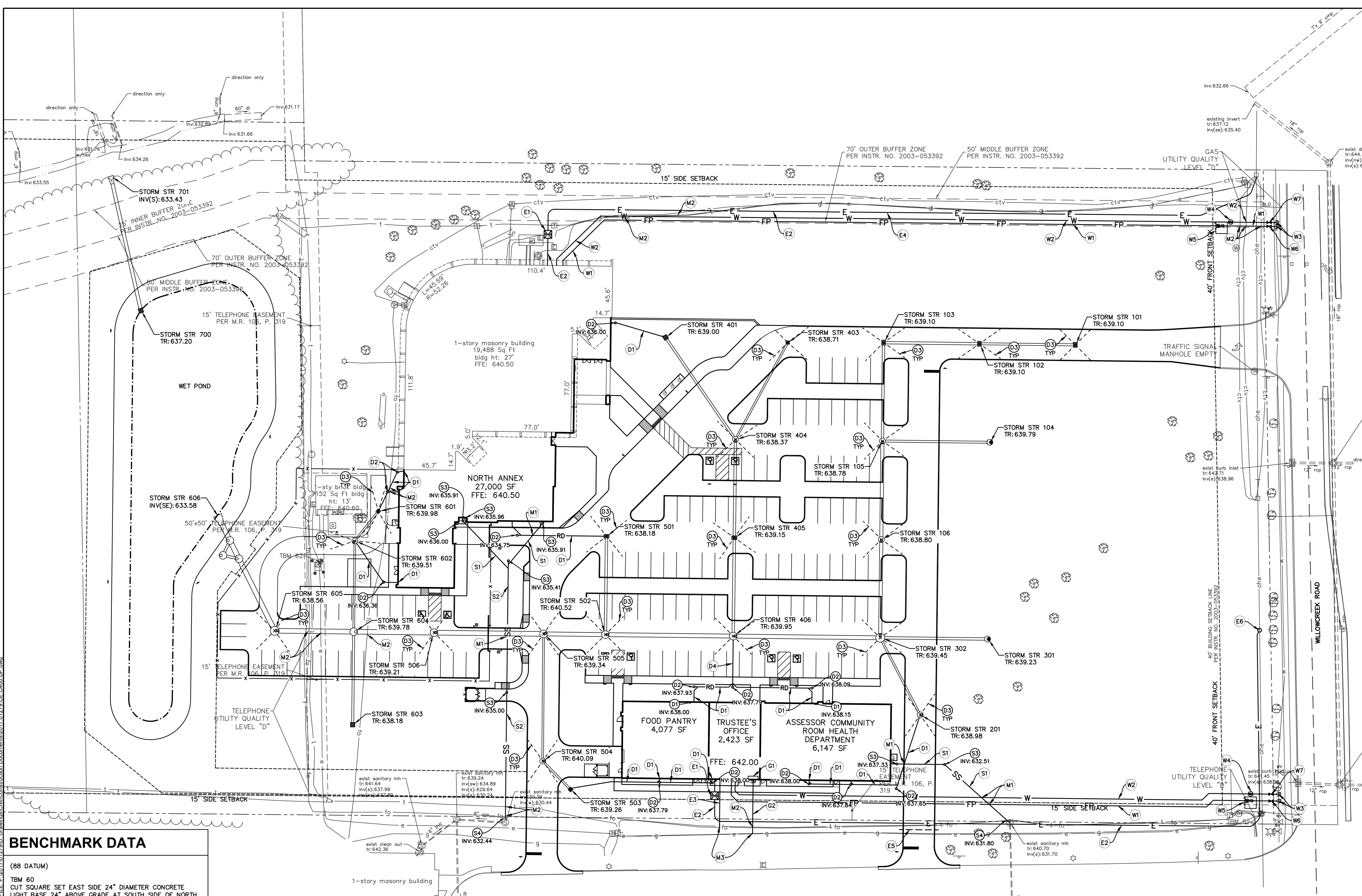
- air conditioner
- bush
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UTILITY LEGEND

- ETC ELECTRIC / TELECOMMUNICATIONS LINE
- WATER LINE
- FIRE PROTECTION LINE
- ROOF DRAIN LINE
- GAS LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- 4" DUAL WALL HDPE PAVEMENT UNDERDRAIN @ 0.25% MIN. SLOPE
- GAS METER
- ELECTRICAL TRANSFORMER
- VALVE
- WATER METER PIT
- FIRE HYDRANT W/ ASSEMBLY

KEYNOTES

- SANITARY SEWER
- S1. 6" SDR 35 PVC SANITARY LATERAL @ 1.04% MIN. SLOPE
- S2. 8" SDR 35 PVC SANITARY LATERAL @ 0.45% MIN. SLOPE
- S3. SANITARY CLEAN OUT
- S4. CONNECT LATERAL TO EXISTING SANITARY MANHOLE PER CITY OF PORTAGE STANDARDS
- DRAINAGE/STORM SEWER
- D1. 6" HDPE ROOF DRAIN @ 0.50% MIN. SLOPE
- D2. ROOF DRAIN CLEAN OUT
- D3. PAVEMENT UNDER DRAIN
- D4. 8" HDPE ROOF DRAIN @ 0.50% MIN. SLOPE
- WATERLINE
- W1. 8" C900 DR14 PVC FIRE PROTECTION LINE
- W2. 2" PE DR11 DOMESTIC WATER LINE
- W3. WATER CONNECTION W/ TAPPING SLEEVE AND VALVE (COORDINATE W/ UTILITY PROVIDER)
- W4. METER PIT (PER IAWC STANDARDS)
- W5. FIRE SERVICE VAULT W/ POST INDICATOR AND FIRE DEPARTMENT CONNECTION (PER IAWC STANDARDS)
- W6. 8" WATER VALVE
- W7. 2" WATER VALVE
- GAS
- G1. GAS METER
- G2. GAS SERVICE LINE
- ELECTRIC \ TELECOMMUNICATIONS
- E1. ELECTRIC TRANSFORMER
- E2. ELECTRIC SERVICE LINE
- E3. TELEPHONE SERVICE LINE
- E4. (1) 4" SCHEDULE 40 PVC DIRECT BURY @ 36" DEPTH
- E5. (4) 4" SCHEDULE 40 PVC DIRECT BURY @ 36" DEPTH
- E6. NEW ELECTRICAL POLE (DESIGN BY OTHERS)
- MISCELLANEOUS
- M1. POTENTIAL UTILITY CONFLICT (ALL WATER / SANITARY / STORM CROSSINGS TO HAVE A MINIMUM OF 18" VERTICAL CLEARANCE. CONTACT ENGINEER IF CONFLICTS EXIST. RELOCATE EXISTING UTILITIES AS REQUIRED.)
- M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITIES TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
- M3. CONTRACTOR TO COORDINATE UTILITY CONNECTION WITH UTILITY PROVIDER.



BENCHMARK DATA

(88 DATUM)

TBM 60
OUT SQUARE SET EAST SIDE 24" DIAMETER CONCRETE LIGHT BASE 24" ABOVE GRADE AT SOUTH SIDE OF NORTH ENTRANCE TO PORTER COUNTY ANNEX; ±75' WEST OF E WILLOW SPRING ROAD AND ±30' SOUTH OF NORTH ENTRANCE.
ELEV: 641.636

TBM 61
BOAT SPIKE SET ON NORTH SIDE UTILITY POLE #860-551 AT NW CORNER WILLOW SPRING DRIVE AND HOSPITAL ENTRANCE ROAD; ± 50' WEST OF E WILLOW SPRING DRIVE AND ± 50' NORTH OF E HOSPITAL DRIVE.
ELEV: 641.205

TBM 62
OUT SQUARE SET IN NORTHEAST CORNER OF CONCRETE TRANSFORMER PAD SOUTH OF FRONTIER COMMUNICATIONS BUILDING; ±75' WEST OF DRIVE TO BUILDING AND ±50' SOUTH OF FRONTIER BUILDING.
ELEV: 638.905

UTILITY CONTACTS

UTILITY	COMPANY	CONTACT	PHONE NO.
ELECTRIC	NIPSCO ELECTRIC	BRIAN WINTER	(219) 886-5522
GAS	NIPSCO GAS	BRIAN WINTER	(219) 886-5522
SANITARY SEWER	PORTAGE UTILITIES FIELD DIVISION	DON SLAWNIKOWSKI	(219) 762-1301
STORM SEWER	PORTAGE UTILITIES FIELD DIVISION	DAVID W. LITTLETON	(219) 763-2986
TELEPHONE	VERIZON	THOMAS BUHER	(708) 458-6410
WATER	IN AMERICAN WATER (NORTHWEST)	CHERI REESE	(219) 808-3001

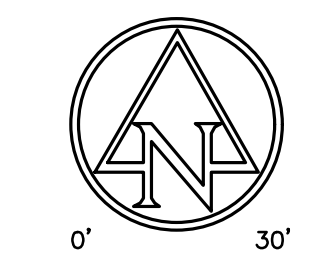
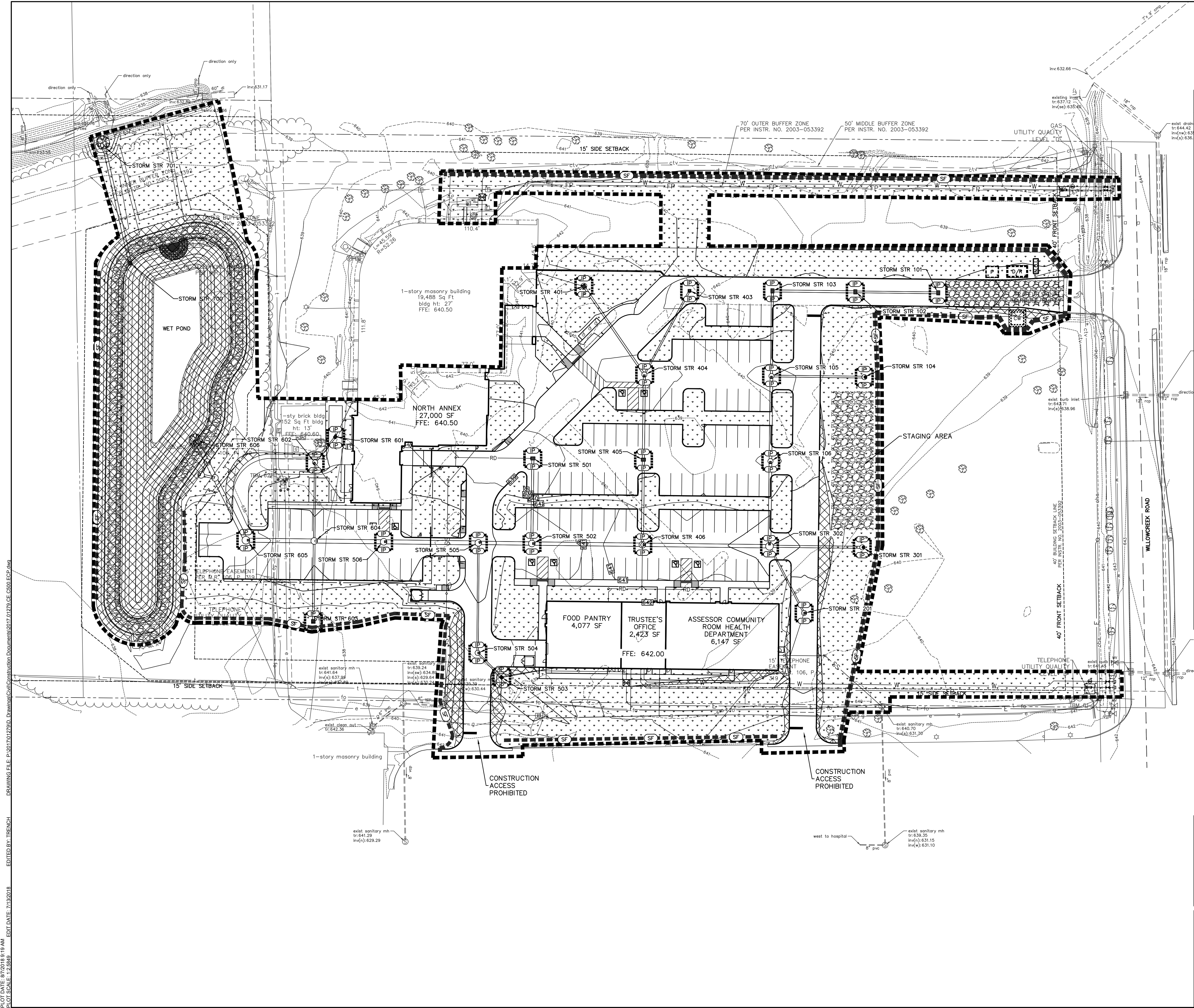
!! CAUTION !!
THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

CALL TOLL FREE
"811" OR 1-800-382-5544
INDIANA UNDERGROUND

GENERAL NOTES:

- CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
- CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
- SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

PLOT DATE: 8/27/2018 11:47 AM
 PLOT SCALE: 1"=40'
 DRAWING FILE: P:\2017\0127901\27901\Construction\2017.01279.CE.C400.LIP.dwg
 EDITED BY: FALDIE
 EDIT DATE: 8/27/2018
 REV: 03/21/18



EXISTING LEGEND

- air conditioner
- bush
- curb inlet
- clean out
- drainage manhole
- electric meter box
- electric cross box
- flag pole
- fire hydrant
- ground light
- gas meter
- guy wire
- inlet
- light pole
- pole
- post
- power pole
- sign
- sanitary manhole
- telephone handhole
- telephone manhole
- telephone marker sign
- telephone pedestal
- transformer
- tree
- traffic manhole
- water manhole
- water valve
- yard light
- tr top of rim elevation
- inv invert elevation
- rcp reinforced concrete pipe
- cmp corrugated metal pipe
- vcp clay pipe
- pvc plastic pipe
- fo buried fiber optic line
- t buried telephone line
- g buried gas line
- e buried electric line
- w buried water line
- ctv buried television line
- oh overhead electric line

EROSION CONTROL LEGEND

- SILT FENCE
- CONSTRUCTION LIMITS
- INLET PROTECTION
- AREA SUBJECT TO TEMPORARY SEEDING DURING CONSTRUCTION AND PERMANENT SEEDING AFTER CONSTRUCTION IS COMPLETE (REFER TO LANDSCAPE PLANS)
- EROSION CONTROL BLANKET
- GRAVEL CONSTRUCTION ENTRANCE
- STAGING AREA
- CONCRETE WASHOUT
- DUMPSTER / RECYCLING AREA
- PORT-O-LET
- N.O.I. SIGN POSTING
- OUTLET PROTECTION
- ROCK DONUT

GENERAL NOTES:

1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

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CALL TOLL FREE
 "811" OR 1-800-382-5544
 - INDIANA UNDERGROUND -



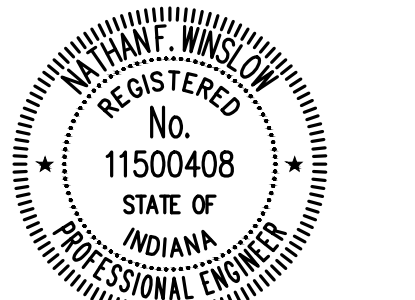
155 Indiana Avenue
 Valparaiso, IN 46383



7260 Shadeland Station | Indianapolis, Indiana 46256
 TEL 317.547.5680 | FAX 317.543.0270
 www.structurepoint.com

**PORTER COUNTY
 NORTH ANNEX**

3560 WILLOWCREEK RD
 PORTAGE, IN 46368



Nathan Winslow
 CERTIFIED BY

ISSUANCE INDEX

DATE:	08/17/2018
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2017.01279

**EROSION CONTROL
 PLAN**

C501

PLOT DATE: 8/7/2018 9:19 AM
 PLOT SCALE: 1"=30'
 DRAWING FILE: P:\2017\0127901 - Drawings\Civil\Construction Documents\2017.01279.CE.C500.ECP.dwg
 EDIT DATE: 7/13/2018
 EDITOR: TRENCH

SITE NAME
The area scheduled for construction is known as "Porter County North Annex" (hereinafter referred to as the "Project").

PROJECT LOCATION
The property is located 3560 Willowcreek Road, in Portage, Indiana, at a latitude of 41°32'52" N and a longitude of 87°11'03" W.

OWNER'S INFORMATION
Name: Porter County Commissioners
Address: 155 Indiana Avenue, Suite 205
Representative: Jeff Good
Title: County Commissioner
Telephone: 219-465-3400

OPERATOR'S INFORMATION
Name: Porter County Commissioners
Address: 155 Indiana Avenue, Suite 205
Representative: Jeff Good
Title: County Commissioner
Telephone: 219-465-3400

NOTICE OF INTENT
All parties defined as owners or operators must submit a Notice of Intent (NOI) at least 48 hours prior to commencement of on-site construction activities. Submittal of late NOI's is not prohibited; however, authorization under the construction general permit is only for discharges that occur after permit coverage is granted. Unpermitted discharges may be subject to enforcement actions by the EPA. For the purposes of this permit, an operator is defined as any party meeting either of the following requirements:

- The party has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications.
- The party has day-to-day operational control of those activities at a project that are necessary to ensure compliance with a stormwater pollution prevention plan for the site or other permit conditions.

A2 11" x 17" PLAT
Refer to the Site Plan.

A3 PROJECT NARRATIVE
The proposed project is located along the west side of Willowcreek Road in Portage, Porter County, Indiana. The information above the existing Porter County Annex facility, parking lot, and associated infrastructure. The proposed development will include a building addition to the existing facility and the construction of an office building along the south side of the site.

A4 VICINITY MAP
Refer to Title Sheet

A5 LEGAL DESCRIPTION OF THE PROJECT SITE
Refer to sheet C100

A6 LOCATION OF ALL LOTS AND PROPOSED SITE IMPROVEMENTS
The site will not be subdivided; therefore, there are no individual lots on the property. The proposed site improvements are shown on the included plans.

A7 HYDROLOGIC UNIT CODE (HUC)
HUC 14 - 0404001040030 Burns Ditch-Willow Creek

A8 STATE AND FEDERAL WATER QUALITY PERMITS
IDEM - Rule 5 NOI

A9 SPECIFIC POINT WHERE STORMWATER DISCHARGE WILL LEAVE THE SITE
Stormwater drainage from the site will be conveyed by a proposed storm sewer to a proposed wet detention facility along the north side of the site. The wet detention facility will discharge to an existing swale located along the north side of the property, which is then conveyed to the roadside ditch of Willowcreek Road, and ultimately discharged to Willow Creek.

A10 LOCATION AND NAME OF ALL WETLANDS, LAKES, AND WATERCOURSES ON AND ADJACENT TO THE SITE
No wetlands, lakes or watercourses have been identified on the site that may be impacted by stormwater discharges as a result of the proposed construction activities.

A11 IDENTIFICATION OF ALL RECEIVING WATERS
Willow Creek is the ultimate receiving water for the project area.

A12 IDENTIFICATION OF ALL POTENTIAL DISCHARGES TO GROUND WATER
There are no locations on site where surface water may be discharged into ground water.

A13 100-YEAR FLOODPLAINS, FLOODWAYS, AND FLOODWAY FRINGES
The lot is located in an unshaded Zone "X" (areas determined to be outside the 0.2 percent annual chance floodplain) as indicated on the Porter County, Indiana, Flood Insurance Rate Map 18127C0116D, DATED SEPTEMBER 30, 2015.

A14 PRE-CONSTRUCTION AND POST-CONSTRUCTION ESTIMATE OF PEAK DISCHARGE
Pre-construction 10-year discharge: 8.42 cfs
Post-construction 10-year discharge: 4.90 cfs

A15 ADJACENT LAND USE
North: Commercial
East: Commercial
South: Medical Hospital
West: Residential

A16 LOCATIONS AND APPROXIMATE BOUNDARIES OF ALL DISTURBED AREAS
Approximate boundaries of disturbed areas are as identified on the Erosion Control Plan.

A17 IDENTIFICATION OF EXISTING VEGETATIVE COVER
Approximate areas of existing vegetative cover are as shown on the existing topography sheets.

A18 SOILS MAP INCLUDING SOIL DESCRIPTION AND LIMITATIONS
The Natural Resources Conservation Service (NRCS) Web Soil Survey of Porter County, Indiana, indicates Del Roy Silt Loam, Milford Silt Clay Loam, and Whitaker Loam are located on the site.
The on-site soil will be treated as recommended by the geotechnical engineer if the conditions are unsuitable for the proposed construction. Remedial treatments may include, but are not limited to, removal of unsuitable soil and backfilling with engineered material, installation of a geofabric within or under the pavement system, or treatment of the subgrade with lime.

A19 LOCATIONS, SIZE, AND DIMENSIONS FOR PROPOSED STORMWATER SYSTEMS
Locations of stormwater systems: Refer to the Utility Plan
Size of storm sewer: Refer to the Utility Plan
Details of storm inlets and manholes: Refer to Site Details

A20 PLANS FOR ANY OFF-SITE CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT
N/A

A21 LOCATIONS OF PROPOSED SOIL STOCKPILES AND/OR BORROW/DISPOSAL
Excess soil shall be immediately stockpiled, surrounded with silt fence and seeded and/or removed from the construction site in accordance with all applicable laws. If topsoil stockpiles are anticipated for this project, they are shown on the Erosion Control Plan.

A22 EXISTING SITE TOPOGRAPHY
Refer to the Existing Topography Plan

A23 PROPOSED FINAL SITE TOPOGRAPHY
Refer to the Grading Plan

B1 DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES
The following potential pollutant sources may be associated with construction activities on site:

- Material storage areas (more specifically described below)
- Construction waste material
- Fuel storage areas and fueling stations
- Exposed soils
- Leaking vehicles and equipment
- Sanitary waste from temporary toilet facilities
- Litter
- Windblown dust
- Soil tracking off site from construction equipment

The following construction materials may be stocked or stored on site at various points during development of the site:

- Structural fill
- Pavement Base Stone
- HDPE, PVC, RCP or Ductile Iron pipe
- Precast concrete, HDPE or PVC drainage and sanitary structures
- Rock rip-rap

B2 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION RELATIVE TO LAND-DISTURBING ACTIVITIES

- Schedule pre-construction meeting with local stormwater authority.
- Install construction entrance.
- Utilize the gravel construction entrance for installation of the perimeter silt fence. Add stone if needed. Post the NOI at the entrance. Add protection measures to existing inlets.
- Install staging area, fueling station, material storage area and concrete truck washout.
- Strip the top soil and grade. Construct wet detention basin.
- Complete the cut and fills on the site. Final grade and seed the pond slopes. Install check dams or stabilize the slopes with erosion control blankets.
- Prior to building construction install stone surface for paved areas.
- Building pads left dormant for more than 15 days, must be temporarily seeded.
- Start building construction. Install staging area for building materials.
- Install storm sewer and other utilities. Provide inlet protection immediately upon completion of the inlet and install rip-rap outlet protection prior to installing outlets. Final grade and stabilize slopes when inlets are functioning.
- Seed the perimeter of the site.
- Complete utility installation, curbs, paving and building construction.
- Install landscaping plant material and stabilize all disturbed areas.
- Remove all erosion and sediment control practices when areas have a uniform grass cover.

B3 STABLE CONSTRUCTION ENTRANCE LOCATIONS AND SPECIFICATIONS
Construction entrances will be in place prior to any site construction or demolition. Entrances are shown on the Erosion Control Plan, refer to the Erosion Control Details for details.

B4 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS
Sheet flow areas will be protected by seed and mulch or hydroseeding. Erosion control blankets will be installed on sloped areas where the slope exceeds 6:1 (horizontal to vertical). Silt Fencing will be utilized to prevent sedimentation from leaving the site. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

B5 SEDIMENT CONTROL MEASURES FOR CONCENTRATED FLOW AREAS
Proposed swales will be stabilized with erosion control blankets, and rock donuts will be installed to slow runoff to inlets. Straw bales and silt fences will not be allowed as concentrated flow protection measures. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

B6 STORM SEWER INLET PROTECTION MEASURE LOCATIONS AND SPECIFICATIONS
The contractor shall install appropriate inlet protection measures at each inlet. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details. Straw bales will not be allowed as inlet protection measures.

B7 RUNOFF CONTROL MEASURES
Silt fence will be utilized to prevent sediment from leaving the site via runoff.

B8 STORMWATER OUTLET PROTECTION SPECIFICATIONS
Stormwater outlets will be protected by riprap aprons to prevent scour erosion. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

B9 GRADE STABILIZATION STRUCTURE LOCATIONS AND SPECIFICATIONS
Rip rap aprons at outlets will be utilized to prevent grade destabilization. Refer to the Erosion Control Plan for locations and the Erosion Control Details for details.

B10 LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE
A wet detention pond will be used onsite to treat all stormwater prior to discharging to the existing swale along the north side of the site. Refer to the Erosion Control Plan for locations of each stormwater quality measure and the Erosion Control Details.

B11 TEMPORARY SURFACE STABILIZATION METHODS APPROPRIATE FOR EACH SEASON
Surface stabilization is required on any bare or thinly vegetated area that is scheduled or likely to remain inactive for a period of 15 days or more. Refer to the Temporary Seeding Detail within Erosion Control Details for specifics on soil amendments, seed mixtures and mulching.

B12 PERMANENT SURFACE STABILIZATION SPECIFICATIONS

- Loosen lawn area to a minimum depth of 6 inches. Mix soil amendments and fertilizers with topsoil at rates specified. Organic soil amendments such as peat, compost or manure shall be applied at 2" depth evenly over soil and incorporated into the top 6" of topsoil. Provide fertilizer with percentage of nitrogen required to provide not less than 1 pound of actual nitrogen per 1,000 sq. ft. of lawn area and not less than 4 percent phosphoric acid and 2 percent potassium. At least 50 percent of nitrogen to be organic form. Delay mixing of fertilizer if planting will not allow placing of planting soil within a few days.
- Fertilizer for lawns: provide a fast release fertilizer with a composition of 1 lb per 1,000 sq. ft. of actual nitrogen, 4 percent phosphorus, and 2 percent potassium by weight.
- Slowly granular fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorus and potassium made up of a composition by weight of 5 percent.
- Grade lawn and grass areas to a smooth, even surface with loose, uniformly fine texture. Limit fine grading to areas that can be planted within immediate future. Remove trash, debris, stones larger than 1 inch diameter, and other objects that may interfere with planting or maintenance operations. Sow seed using a spreader or seeding machine. Do not seed when wind velocity exceeds 5 miles per hour.
- Distribute seed evenly over entire area by sowing equal quantity in 2 directions at right angles to each other.
- Roll seed lightly into top 1/8 inch of soil, roll lightly, and water with a fine spray.
- Install erosion control blankets as indicated on the plan.
- Protect seeded areas against erosion by spreading clean, seed-free straw mulch after completion of seeding operations. Spread uniformly to form a continuous blanket not less than 1-1/2 inches loose measurements over seeded areas.
- Water newly planted lawn areas and keep moist until new grass is established. Immediately repair any lawn areas disturbed by construction activities including tree and shrub installation.
- Refer to the Permanent Seeding Details within the Erosion Control Detail Sheet, for timing of permanent seeding, grass seed specifications and mulching specifications.

B13 MATERIAL HANDLING AND SPILL PREVENTION PLAN
Solid Waste Disposal
No solid material, including building materials, is permitted to be discharged to surface waters or buried on site. All solid waste materials, including disposable materials incidental to the construction activity, must be collected in containers or closed dumpsters. The collection containers must be emptied periodically and the collected material hauled to a landfill permitted by the State and/or appropriate local municipality to accept the waste for disposal.
A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper solid waste procedures.
Hazardous Waste
Whenever possible, minimize the use of hazardous materials and generation of hazardous wastes. All hazardous waste materials will be disposed in the manner specified by federal, state, or local regulations or by the manufacturer.
Use containment berms in fueling and maintenance areas and where potential for spills is high.
A foreman or supervisor should be designated in writing to oversee, enforce and instruct construction workers on proper hazardous waste storage areas should be indicated on the stormwater pollution prevention plan by the operator following on-site location of the facility.
Dust Control/Off-Site Vehicle Tracking
During construction, water trucks should be used, as needed, by each contractor or subcontractor to reduce dust. After construction, the site should be stabilized to reduce dust.
Construction traffic should enter and exit the site at a Construction Entrance with a rock pad or equivalent device. The purpose of the rock pad is to minimize the amount of soil and mud that is tracked onto existing streets. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts.

Sanitary/Septic
Contractors and subcontractors must comply with all state and local sanitary sewer, portable toilet, or septic system regulations. Sanitary facilities shall be provided at the site by each contractor or subcontractor throughout construction activities. The sanitary facilities should be utilized by all construction personnel and be serviced regularly. All expenses associated with providing sanitary facilities are the responsibility of the contractors and subcontractors. The location of any sanitary facilities should be indicated on the stormwater pollution prevention plan by the operator following on-site location of said facilities.
Water Source
Water used to establish and maintain grass, to control dust, and for other construction purposes must originate from a public water supply or private well approved by the State or local health department.
Equipment Fueling and Storage Areas
Equipment fueling, maintenance, and cleaning should only be completed in protected areas (i.e., bermed area). Leaking equipment and maintenance fluids will be collected and not allowed to discharge onto soil where they may be washed away during a rain event.
Equipment wash down (except for wheel washes) should take place within an area surrounded by a berm. The use of detergents is prohibited.
Hazardous Material Storage
Chemicals, paints, solvents, fertilizers, and other toxic or hazardous materials should be stored in their original containers (if original container is not resealable, store the products in clearly labeled, waterproof containers). Except during application, the containers should be kept in trucks or in bermed areas within covered storage facilities. Runoff containing such materials shall be collected, removed from the site, and disposed of in accordance with the federal, state, and local regulations.
As may be required by federal, state or local regulations, the Contractor should have a Hazardous Materials Management Plan and/or Hazardous Materials Spill and Prevention Program in place. A foreman or supervisor should be designated in writing to oversee, enforce, and instruct construction workers on proper hazardous materials storage and handling procedures. The location of any hazardous material storage areas should be indicated on the stormwater pollution prevention plan by the operator following on-site location of the storage areas.
Material Handling and Spill Prevention
Discharge of hazardous substances or oil into stormwater is subject to reporting requirements. In the event of a spill of a hazardous substance, the operator is required to notify the National Response Center (1-800-424-8802) to properly report the spill. In addition, the operator shall submit a written description of the release (including the type and amount of material released, the date of the release, the circumstances of the release, and the steps to be taken to prevent future spills) to the local governing authority. The SWPPP must be revised within 14 calendar days after the release to reflect the release, stating the information above along with modifications to minimize the possibility of future occurrences. Each contractor and subcontractor is responsible for complying with these reporting requirements.
Concrete Washout
All concrete trucks waste material shall be completely contained and disposed in accordance with all local, state, and federal regulations. A pit or container is required when cleaning concrete chutes.
Spill Response Plan
Minor - Small spills that typically involve oil, gasoline, paint, hydraulic fluid, etc., can be controlled by the first responder at the discovery of the spill.
• Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.
• Use absorbent material to clean-up spill material and any subsequently contaminated soil and dispose of properly.
Semi-Significant Spills - Approximately ten gallons or less of pollutant with no contamination of ground or surface waters. Minor spills can be generally controlled by the first responder with help from other site personnel. This response may require other operations to stop to make sure the spill is quickly and safely addressed. At the discovery of the spill:
• Contain spill to prevent material from entering storm or ground water. Do not flush with water or bury.
• Use absorbent material to clean-up spills and dispose of properly. Spills on impervious surfaces should be disposed of as soon as possible to prevent migration deeper into the soil and groundwater.
Dispose of contaminated soils or absorbents properly.
• Contact 911 if the spill could be a safety issue.
• Contact supervisors and designated site inspectors immediately.
• Contaminated solids are to be removed to an approved landfill.
Major or Hazardous Spills - More than ten gallons, there is the potential for death, injury or illness to humans or animals, or has the potential for surface or groundwater pollution.
• Control or contain the spill without risking bodily harm. Temporarily plug storm drains if possible to prevent migration of the stormwater system.
• Immediately contact the local Fire Department at 911 to report any hazardous material spill.
• Contact supervisors and designated site inspectors immediately. Governing authorities responsible for storm water facilities should be contacted as well. The contractor is responsible for having these contact numbers available at the job site. A written report should be submitted to the owner as soon as possible.
• As soon as possible but within 2 hours of discovery, contact the local agency responsible for spill management. The following information should be noted for future reports to the agency:
• Name, address and phone number of person making the spill report
• The location of the spill
• The time of the spill
• Identification of the spilled substance
• Approximate quantity of the substance that has been spilled or may be further spilled
• The duration and source of the spill
• Name and location of the damaged waters
• Name of spill response organization
• What measures were taken in the spill response
• Other information that may be significant
Additional regulations or requirements may be present. A spill response professional should be consulted to make sure all appropriate and required steps have been taken. Contaminated solids should only be removed from the site after approval is given by the appropriate agency.
B14. MONITORING AND MAINTENANCE GUIDELINES FOR EACH PROPOSED STORMWATER QUALITY MEASURE
Inspection Schedule/Reporting
All impacted areas, as well as all erosion and sediment control devices, will be inspected every seven (7) calendar days and within 24 hours after a rainfall of 0.5 inch or greater. Where sites have been final or temporarily stabilized or on sites where runoff is unlikely due to winter conditions (e.g., site is covered with snow, ice, or frozen ground exists), such inspections shall be conducted at least once every month.
Inspections shall be conducted and a written report prepared, by a designated and qualified person familiar with the USEPA NPDES Storm Water General Permit, this SWPPP, and the Project.
Inspection reports shall be completed including scope of the inspection, name(s) and qualifications of personnel making the inspection, the date of the inspection, observations relating to the implementation of the SWPPP, and any actions taken during the inspection. The inspection report should state whether the site was in compliance or identify any incidents of noncompliance. The contractor shall keep a copy of the inspection reports on site and permanently for a period of two years following construction. The on-site reports may be requested by inspections conducted by the local governing authority.
Construction Entrance
Locations where vehicles exit the site shall be inspected for evidence of off-site sediment tracking. Each contractor and subcontractor shall be responsible for maintaining the Construction Entrance and other controls as described in this SWPPP.
Material Storage Inspections
Inspectors must evaluate areas used for storage of materials that are exposed to precipitation. The purpose is to ensure that materials are protected and/or impounded so that pollutants cannot discharge from storage areas. Off-site material storage areas used solely by the subject project are considered to be part of the project and must be included in the erosion control plans and the site inspection reports.
Soil Stabilization Inspections
Seeded areas will be inspected to confirm that a healthy stand of vegetation is maintained. The site has achieved final stabilization once all areas are covered with pavement or have a stand of vegetation with at least 70% of the background vegetation density. The density of 70% or greater must be maintained to be considered as stabilized. The operator or their representative will water, fertilize, and reseed disturbed areas as needed to achieve this goal.
Erosion and Sediment Control Inspections
All controls should be inspected at least once every seven (7) calendar days and following any storm event of 0.5 inch or greater. The following is a list of inspection/maintenance practices that will be used for specific controls:
1. Geotextiles/Erosion Control Mats: Missing or loose matting must be replaced or re-anchored.
2. Inlet Protection: If silt fence inlet protection is to be used, sediment should be removed when it reaches approximately one-half the height of the fence. If a sump is used, sediment should be removed when the volume of the basin is reduced by 50%.
3. Diversion Swales: Clean debris or other obstructions as needed. Damage from storms or normal construction activities (i.e., tire ruts) shall be repaired immediately.
4. Mulching: Inspect for thin or bare spots caused by natural decomposition or weather-related events. Mulch in high traffic areas should be replaced on a regular basis to maintain uniform protection.
5. Sediment Trap: Accumulated silt shall be removed and the basin shall be re-graded to its original dimensions at such point that the capacity of the impoundment has been reduced to one-half of its original storage capacity. The removed sediment shall be stockpiled or redistributed in areas that are protected from erosion.
6. Sediment Basin: Inspect frequently to check for damage and to ensure obstructions are not diminishing the effectiveness of the structures. Sediment shall be removed and the basin shall be re-graded to its original dimensions at such point that the capacity of the impoundment has been reduced to 20% of its original storage capacity. The removed sediment shall be stockpiled or redistributed in areas that are protected from erosion.
7. Silt Fence: Removal of built-up sediment will occur when the sediment reaches one-third the height of the fence.
8. Stabilized Construction Entrance: Periodic re-grading and top dressing with additional stone.
9. Straw Bales: Replace straw bales that show signs of deterioration.
10. Vegetation: Protect newly seeded areas from excessive runoff and traffic until vegetation is established. Establish a watering and fertilizing schedule.
11. Good Housekeeping: Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges through screening of outfalls and daily pickup of litter.

In the event that sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize adverse impacts. An example of this may be the situation where sediment has washed into the street and could be carried into the storm sewers by the next rainfall and/or pose a safety hazard to users of public streets. Modifications/Revisions to SWPPP.

Based on inspection results, any necessary modification to this SWPPP shall be implemented within seven calendar days of the inspection. A modification is necessary if a control measure or operational procedure does not provide adequate pollutant control. All revisions shall be recorded on a Record of Revisions within seven calendar days of the inspection.

It is the responsibility of the operator to maintain effective pollutant discharge controls. Physical site conditions or contractor/subcontractor practices could make it necessary to install more controls than were originally planned. For example, localized concentrations of surface runoff or unusually steep areas could require additional silt barrier or other structural controls. Assessing the need for and installing additional controls will be a continuing contractor/subcontractor responsibility until final stabilization is achieved. Contractors and subcontractors implementing this SWPPP must remain alert to the need to periodically refine and update this SWPPP in order to accomplish the intended goals.

Notice of Termination
Compliance of the site with the General Construction Permit remains the responsibility of all operators that have submitted an NOI until such time as they have submitted a Notice of Termination (NOT). The permittee's authorization to discharge under the General Construction Permit terminates at midnight of the day the NOT is signed.
All permittees must submit an NOT within thirty (30) days after one or more of the following conditions have been met:
1. Final stabilization has been achieved on all portions of the site for which the permittee was responsible.
2. Another operator/permittee has assumed control over all areas of the site that have not been finally stabilized.
3. In residential construction operations, temporary stabilization has been completed and the residence has been transferred to the homeowner.

B15. EROSION AND SEDIMENT CONTROL SPECIFICATIONS FOR INDIVIDUAL BUILDING LOTS
Since the entire site is under a single ownership, there are not any individual building lots.

C1 DESCRIPTION OF POLLUTANTS AND THEIR SOURCES ASSOCIATED WITH THE PROPOSED LAND USE
The proposed land use is an institutional facility. The pollutants and sources of each pollutant normally expected from this type of land use are listed below:
Pollutant Source: Passenger vehicles, delivery vehicles.
Type of Pollutant: Oil, gasoline, diesel fuel, any hydrocarbon associated with vehicular fuels and lubricants, grease, antifreeze, windshield cleaner solution, brake fluid, brake dust, rubber, glass, metal and plastic fragments, grit, road de-icing materials.
Pollutant Source: Building
Type of Pollutant: Cleaning solutions or solvents, leaks from HVAC equipment, grit from roof drainage, aggregate or rubber fragments from roofing system.
Pollutant Source: Trash dumpster
Type of Pollutant: Cleaning solutions or solvents, litter (paper, plastic, general refuse associated with distribution operations), unclean food products, bacteria.
Pollutant Source: Parking lot
Type of Pollutant: Any pollutant associated with vehicular sources, grit from asphalt wearing surface, bituminous compounds from periodic maintenance (sealing, resurfacing and patching), pavement de-icing materials, paint fragments from parking stall stripes, concrete fragments, wind-blown litter from off-site sources, elevated water temperatures from contact with impervious surfaces.
Pollutant Source: Lawn and landscape areas
Type of Pollutant: Fertilizers, soil, organic material (leaves, mulch, grass clippings)

C2 SEQUENCE DESCRIBING STORMWATER QUALITY MEASURE IMPLEMENTATION
The stormwater wet detention pond will remain in place as permanent features after construction is completed. The purpose of these measures is to restrict stormwater discharges and provide a sediment removal function.
C3 DESCRIPTION OF PROPOSED POST-CONSTRUCTION STORMWATER QUALITY MEASURES
Vegetative Filter Strip
A vegetative filter strip is used to trap sediment from small, disturbed areas by reducing velocity of sheet flow. Vegetative filter strips capture sediment by filtering storm water runoff and allowing sediment to settle out.
Permanent Vegetation
Topsoil will be placed in lawn areas and seeded with grass, and graded not to exceed 3:1 slopes. Proposed landscape trees and shrubs will also be added. These Bio areas will act as a natural filter strip to help improve storm water quality. The vegetated areas will slow the velocities of storm water runoff, reduce sediment runoff, and reduce problems associated with mud or dust from bare soils.
Wet Detention Pond
A wet detention pond detains storm water runoff long enough for contaminated sediments to settle and remain in the pond and allow the water in the pond to be displaced by the next rain event. The sedimentation process removes particulates, organic matter, and metals from the water while nutrients are removed through biological uptake. By capturing and retaining runoff, wet ponds control both storm water quality and quantity.
Mechanical BMP (Aquaswirl, etc.)
A BMP structure will be installed at the downstream end of the storm sewer system, prior to the storm sewer outlet. The primary purpose of the BMP is to remove sediment, oils and floatable debris from the stormwater prior to discharging from the site.
Good Housekeeping Measures
Good Housekeeping measures such as regular street sweeping, installation of trash receptacles, and reduction in fertilizer overspray can be incorporated by the owner and/or occupant.

C4 LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE
The following items are stormwater quality measures that will be installed during construction. These items will remain in place after construction is completed and are considered to serve an incidental function as post-construction stormwater quality BMPs.
Wet Detention Pond
The wet detention pond will be located at the west end of the site and will collect stormwater runoff as shown on the grading plan sheet C300.
Mechanical BMP
The site contains an Aquaswirl AS-5 unit located on the west side of the site just upstream of the outlet to the pond.
C5 DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST-CONSTRUCTION STORMWATER QUALITY MEASURES
Maintenance requirements for the stormwater quality measures which will remain in place after construction is complete, are described below. Refer to the BMP Operations and Maintenance Manual for more detailed maintenance requirements.
Vegetated Filter Strip
Filter strips require little maintenance once vegetation is established. Mow as needed during the growing season.
Wet Detention Pond
Inspect periodically as needed or at least every six months. Sediment shall be disposed of off site in accordance with all applicable laws. Areas that show sign of erosion shall be stabilized with erosion control blanket and/or seed as necessary.
Mechanical BMP
Frequent inspection and cleanup is critical for proper operation. Recommended inspection and maintenance schedules vary with each manufacturer.



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REGISTERED PROFESSIONAL ENGINEER
No. 11500408
STATE OF INDIANA

CERTIFIED BY

ISSUANCE INDEX		
DATE:	08/17/2018	
PROJECT PHASE:	CONSTRUCTION DOCUMENTS	

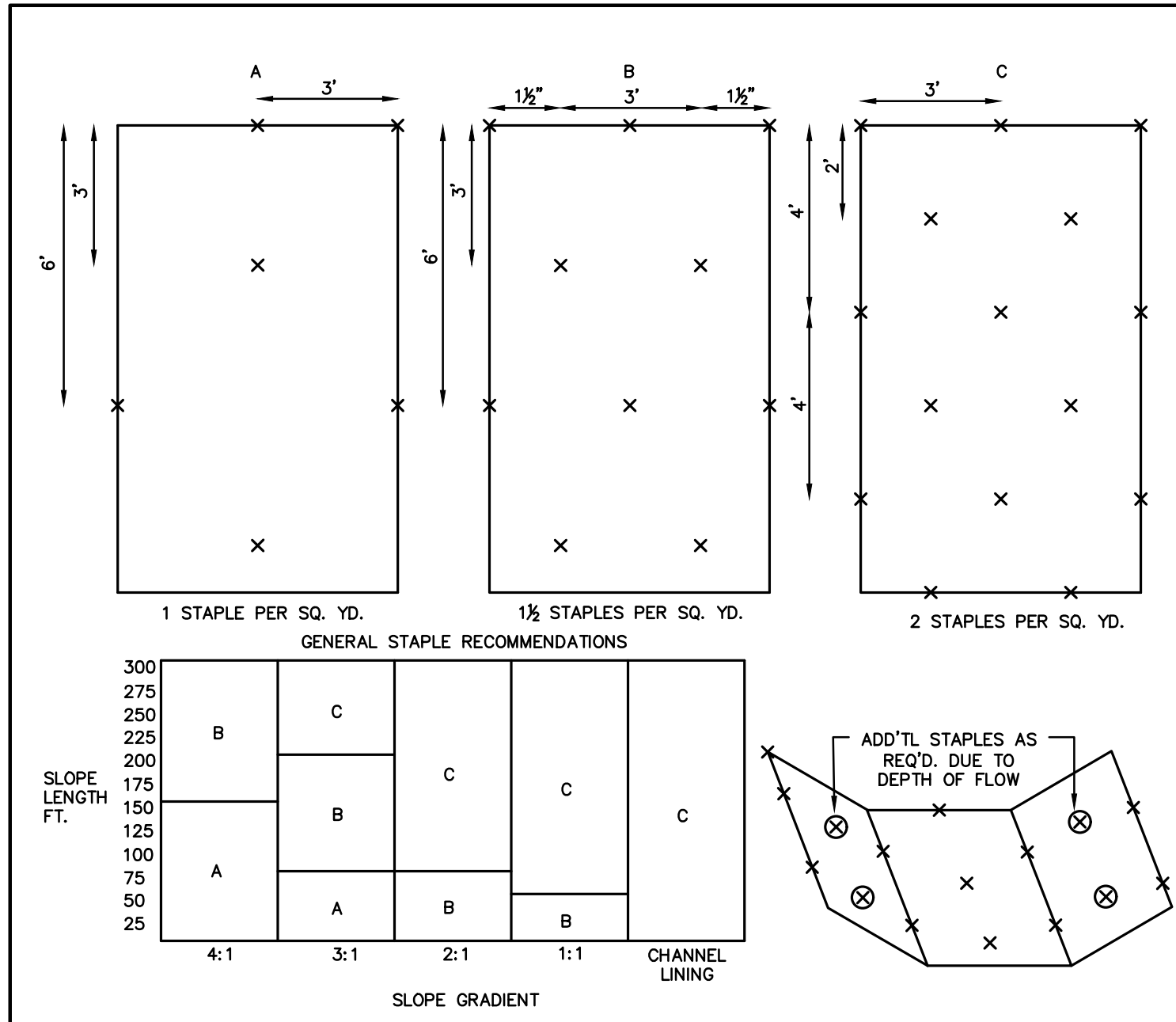
REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

**STORM WATER
POLLUTION
PREVENTION PLAN**

C510

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EDITED BY: HAVINDHOIST
PLOT DATE: 8/7/2018 10:18 AM
PLOT SCALE: 1:2500



SPECIFICATIONS

EFFECTIVE LIFE

- THE FUNCTIONAL LIFE OF AN EROSION CONTROL BLANKET IS DEPENDENT ON THE MATERIALS USED.

ANCHORING

- STAPLES, PINS OR STAKES USED TO PREVENT MOVEMENT OR DISPLACEMENT OF BLANKET. (FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR SPECIFIC APPLICATIONS.)

MATERIALS

- ORGANIC (STRAW, EXCISIOR, WOVEN PAPER, COCONUT FIBER, ETC.) OR SYNTHETIC MULCH INCORPORATED WITH A POLYPROPYLENE, NATURAL FIBER OR SIMILAR NETTING MATERIAL. (THE NETTING MAY BE BIODEGRADABLE, PHOTODEGRADABLE OR PERMANENT.)

NOTE: SOME EROSION CONTROL BLANKET NETTINGS MAY POSE A THREAT TO CERTAIN SPECIES OF WILDLIFE IF THEY BECOME ENTANGLED IN THE NETTING MATRIX.

- SIX TO 12-INCH STAPLES, PINS, OR STAKES.

INSTALLATION

- SELECT THE TYPE AND WEIGHT OF EROSION CONTROL BLANKET TO FIT THE SITE CONDITIONS (E.G., SLOPE, CHANNEL, FLOW VELOCITY) PER THE MANUFACTURER'S RECOMMENDATIONS.
- PREPARE THE SEEDBED, ADD SOIL AMENDMENTS, AND PERMANENTLY SEED THE AREA IMMEDIATELY FOLLOWING SEEDBED PREPARATION.
- LAY EROSION CONTROL BLANKETS ON THE SEEDBED AREA SO THAT THEY ARE IN CONTINUOUS CONTACT WITH THE SOIL WITH EACH UP-SLOPE OR UP-STREAM BLANKET OVERLAPPING THE DOWN-SLOPE OR DOWN-STREAM BLANKET BY AT LEAST EIGHT INCHES, OR FOLLOW MANUFACTURER'S RECOMMENDATIONS.
- TUCK THE UPPERMOST EDGE OF THE UPPER BLANKETS INTO A CHECK SLOT (SLIT TRENCH), BACKFILL WITH SOIL AND TAMP DOWN. IN CERTAIN APPLICATIONS, THE MANUFACTURER MAY REQUIRE ADDITIONAL CHECK SLOTS AT SPECIFIC LOCATIONS DOWN SLOPE FROM THE UPPERMOST EDGE OF THE UPPER BLANKETS.
- ANCHOR THE BLANKETS IN PLACE BY DRIVING STAPLES, PINS, OR STAKES THROUGH THE BLANKET AND INTO THE UNDERLYING SOIL. FOLLOW AN ANCHORING PATTERN APPROPRIATE FOR THE SITE CONDITIONS AND AS RECOMMENDED BY THE MANUFACTURER.

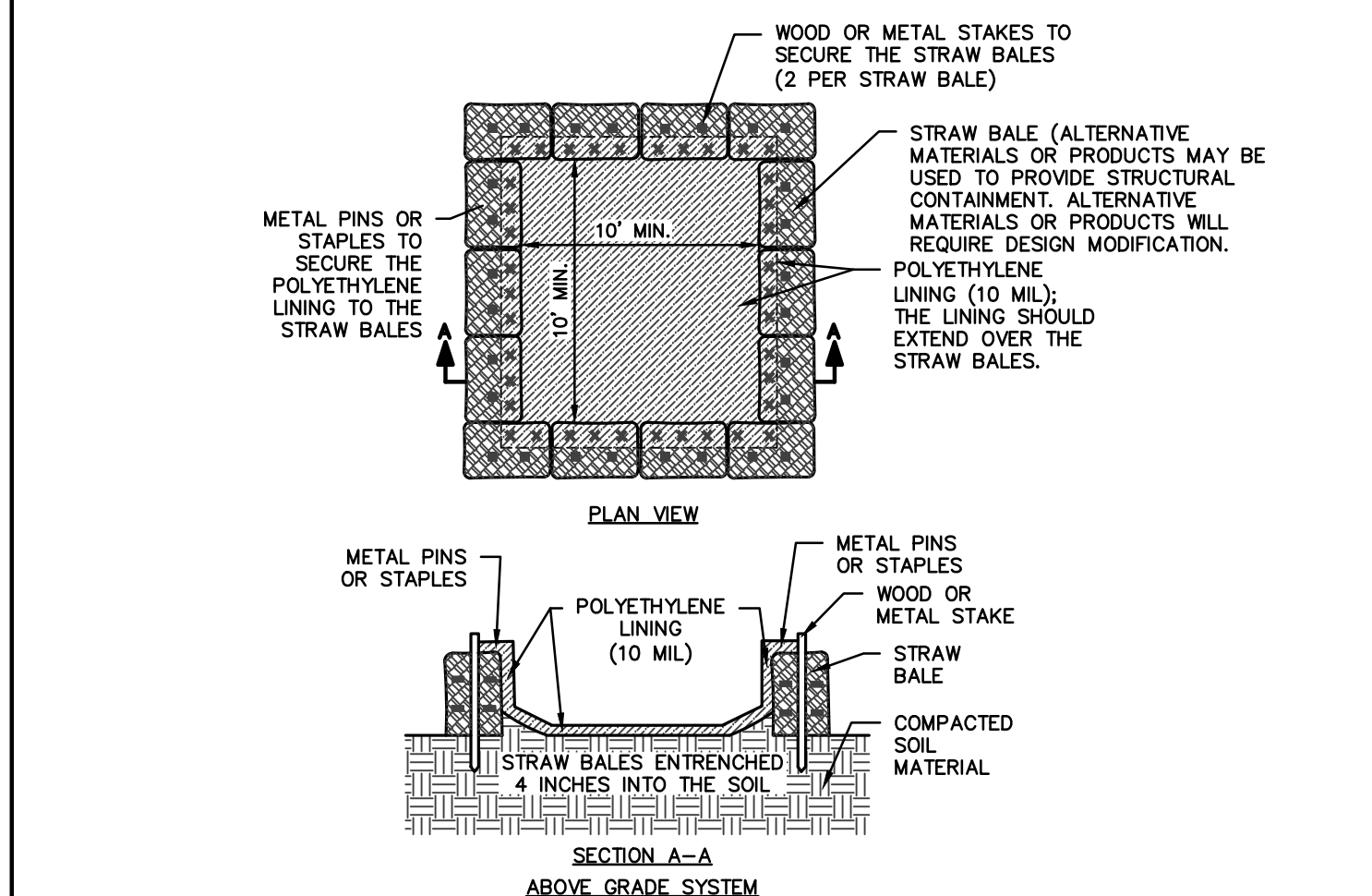
MAINTENANCE

- INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS.
- CHECK FOR EROSION OR DISPLACEMENT OF THE BLANKET. IF ANY AREA SHOWS EROSION, PULL BACK THAT PORTION OF THE BLANKET COVERING THE ERODED AREA, ADD SOIL AND TAMP, RESEED THE AREA, REPLACE AND STAPLE THE BLANKET.

NOTES

- CHANNEL LININGS UTILIZE STAPLE PATTERN "C" WITH ADDITIONAL STAPLES ON SIDE SLOPES AT PROJECTED WATER LINE.
- STAPLE PATTERNS APPLY TO ALL NORTH AMERICAN GREEN EROSION CONTROL BLANKETS. STAPLE PATTERNS MAY VARY DEPENDING UPON SOIL TYPE AND AVERAGE RAINFALL.
- AT SLOPE LENGTHS GREATER THAN 300 FEET OR WHERE DRAINAGE OVER LARGE AREAS IS DIRECTED ONTO THE BLANKETS, STAPLE PATTERN "C" SHOULD BE UTILIZED.

EROSION CONTROL BLANKET
NOT TO SCALE (REV. 01/17)



MATERIALS

- MINIMUM OF TEN MIL POLYETHYLENE SHEETING THAT IS FREE OF HOLES, TEARS, AND OTHER DEFECTS. THE SHEETING SELECTED SHOULD BE OF AN APPROPRIATE SIZE TO FIT THE WASHOUT SYSTEM WITHOUT SEAMS OR OVERLAP OF THE LINING (DESIGNED AND INSTALLED SYSTEMS).
- SIGNAGE.
- ORANGE SAFETY FENCING OR EQUIVALENT.
- STRAW BALES, SANDBAGS (BAGS SHOULD BE ULTRAVIOLET-STABILIZED GEOTEXTILE FABRIC), SOIL MATERIAL, OR OTHER APPROPRIATE MATERIALS THAT CAN BE USED TO CONSTRUCT A CONTAINMENT SYSTEM (ABOVE GRADE SYSTEMS).
- METAL PINS OR STAPLES AT A MINIMUM OF SIX INCHES IN LENGTH, SANDBAGS, OR ALTERNATIVE FASTENER TO SECURE POLYETHYLENE LINING TO THE CONTAINMENT SYSTEM.
- NON-COLLAPSING AND NON-WATER HOLDING COVER FOR USE DURING RAIN EVENTS (OPTIONAL).

INSTALLATION

PREFABRICATED WASHOUT SYSTEMS/CONTAINERS

- INSTALL AND LOCATE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- DESIGNED AND INSTALLED SYSTEMS
- UTILIZE AND FOLLOW THE DESIGN IN THE STORM WATER POLLUTION PREVENTION PLAN TO INSTALL THE SYSTEM.
- DEPENDENT UPON THE TYPE OF SYSTEM, EITHER EXCAVATE THE PIT OR INSTALL THE CONTAINMENT SYSTEM.
- A BASE SHALL BE CONSTRUCTED AND PREPARED THAT IS FREE OF ROCKS AND OTHER DEBRIS THAT MAY CAUSE TEARS OR PUNCTURES IN THE POLYETHYLENE LINING.
- INSTALL THE POLYETHYLENE LINING FOR EXCAVATED SYSTEMS, THE LINING SHOULD EXTEND OVER THE ENTIRE EXCAVATION, THE LINING FOR BERMED SYSTEMS SHOULD BE INSTALLED OVER THE POOLING AREA WITH ENOUGH MATERIAL TO EXTEND THE LINING OVER THE BERM OR CONTAINMENT SYSTEM. THE LINING SHOULD BE SECURED WITH PINS, STAPLES, OR OTHER FASTENERS.
- PLACE FLAGS, SAFETY FENCING, OR EQUIVALENT TO PROVIDE ACCESS TO CONSTRUCTION EQUIPMENT AND OTHER TRAFFIC.
- PLACE A NON-COLLAPSING, NON-WATER HOLDING COVER OVER THE WASHOUT FACILITY PRIOR TO A PREDICTED RAINFALL EVENT TO PREVENT ACCUMULATION OF WATER AND POSSIBLE OVERFLOW OF THE SYSTEM (OPTIONAL).
- INSTALL SIGNAGE THAT IDENTIFIES CONCRETE WASHOUT AREAS.
- POST SIGNS DIRECTING CONTRACTORS AND SUPPLIERS TO DESIGNATED LOCATIONS.
- WHERE NECESSARY, PROVIDE STABLE INGRESS AND EGRESS OR ALTERNATIVE APPROACH PAD FOR CONCRETE WASHOUT SYSTEMS.

MAINTENANCE

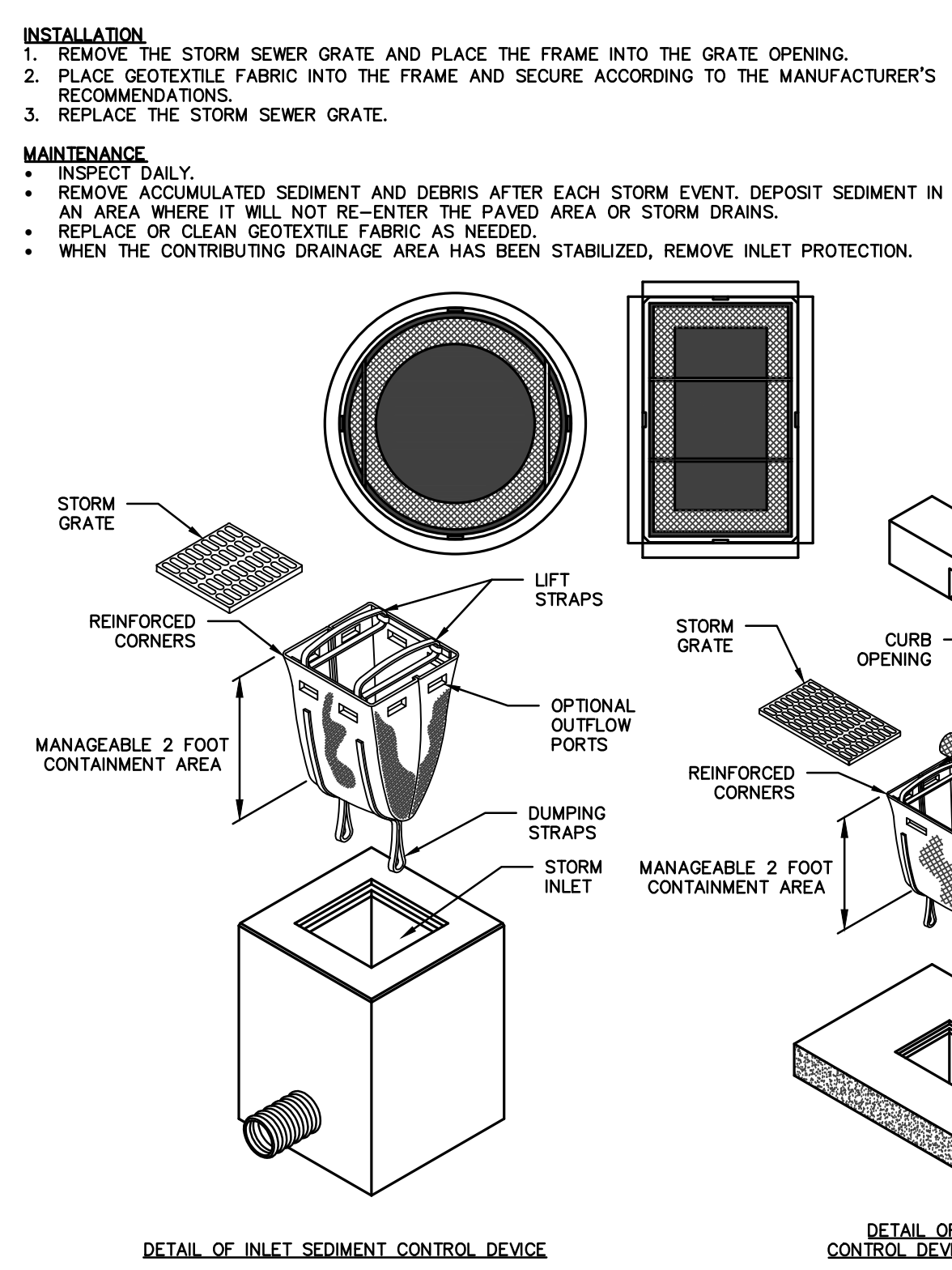
- INSPECT DAILY AND AFTER EACH STORM EVENT.
- INSPECT THE INTEGRITY OF THE OVERALL STRUCTURE INCLUDING, WHERE APPLICABLE, THE CONTAINMENT SYSTEM.
- INSPECT THE SYSTEM FOR LEAKS, SPILLS, AND TRACKING OF SOIL BY EQUIPMENT.
- INSPECT THE POLYETHYLENE LINING FOR FAILURE, INCLUDING TEARS AND PUNCTURES.
- ONCE CONCRETE WASTES HARDEN, REMOVE AND DISPOSE OF THE MATERIAL.
- EXCESS CONCRETE SHOULD BE REMOVED WHEN THE WASHOUT SYSTEM REACHES 50 PERCENT OF THE DESIGN CAPACITY. USE OF THE SYSTEM SHOULD BE DISCONTINUED UNTIL APPROPRIATE MEASURES CAN BE INITIATED TO CLEAN THE STRUCTURE.
- PREFABRICATED SYSTEMS SHOULD ALSO UTILIZE THIS CRITERION, UNLESS THE MANUFACTURER HAS ALTERNATE SPECIFICATIONS.
- UPON REMOVAL OF THE SOLIDS, INSPECT THE STRUCTURE, REPAIR THE STRUCTURE AS NEEDED OR CONSTRUCT A NEW SYSTEM.
- DISPOSE OF ALL CONCRETE IN A LEGAL MANNER. REUSE THE MATERIAL ON SITE, RECYCLE OR Haul THE MATERIAL TO AN APPROVED CONSTRUCTION/DEMOLITION LANDFILL SITE. RECYCLING OF MATERIAL IS ENCOURAGED. THE WASTE MATERIAL CAN BE USED FOR MULTIPLE APPLICATIONS INCLUDING BUT NOT LIMITED TO ROADBEDS AND BUILDING. THE AVAILABILITY FOR RECYCLING SHOULD BE CHECKED LOCALLY.
- THE PLASTIC LINER SHOULD BE REPLACED AFTER EVERY CLEANING. THE REMOVAL OF MATERIAL WILL USUALLY DAMAGE THE LINING.
- THE CONCRETE WASHOUT SYSTEM SHOULD BE REPAIRED OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE.
- CONCRETE WASHOUT SYSTEMS ARE DESIGNED TO PROMOTE EVAPORATION. HOWEVER, IF THE LIQUIDS DO NO EVAPORATE AND THE SYSTEM IS NEAR CAPACITY IT MAY BE NECESSARY TO VACUUM OR REMOVE THE LIQUIDS AND DISPOSE OF THEM IN AN ACCEPTABLE METHOD. DISPOSAL MAY BE ALLOWED AT THE LOCAL SANITARY SEWER AUTHORITY PROVIDED THEIR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMITS ALLOW FOR ACCEPTANCE OF THIS MATERIAL. ANOTHER OPTION WOULD BE TO UTILIZE A SECONDARY CONTAINMENT SYSTEM OR BASIN FOR FUTURE Dewatering.
- PREFABRICATED UNITS ARE OFTEN PUMPED AND THE COMPANY SUPPLYING THE UNIT PROVIDES THIS SERVICE.
- INSPECT CONSTRUCTION ACTIVITIES ON A REGULAR BASIS TO ENSURE SUPPLIERS, CONTRACTORS, AND OTHERS ARE UTILIZING DESIGNATED WASHOUT AREAS. IF CONCRETE WASTE IS BEING DISPOSED OF IMPROPERLY, IDENTIFY THE VIOLATORS AND TAKE APPROPRIATE ACTION.
- WHEN CONCRETE WASHOUT SYSTEMS ARE NO LONGER REQUIRED, THE CONCRETE WASHOUT SYSTEMS SHALL BE CLOSED. DISPOSE OF ALL HARDENED CONCRETE AND OTHER MATERIALS USED TO CONSTRUCT THE SYSTEM.
- HOLES, DEPRESSIONS AND OTHER LAND DISTURBANCES ASSOCIATED WITH THE SYSTEM SHOULD BE BACKFILLED, GRADED, AND STABILIZED.

SPECIFICATIONS

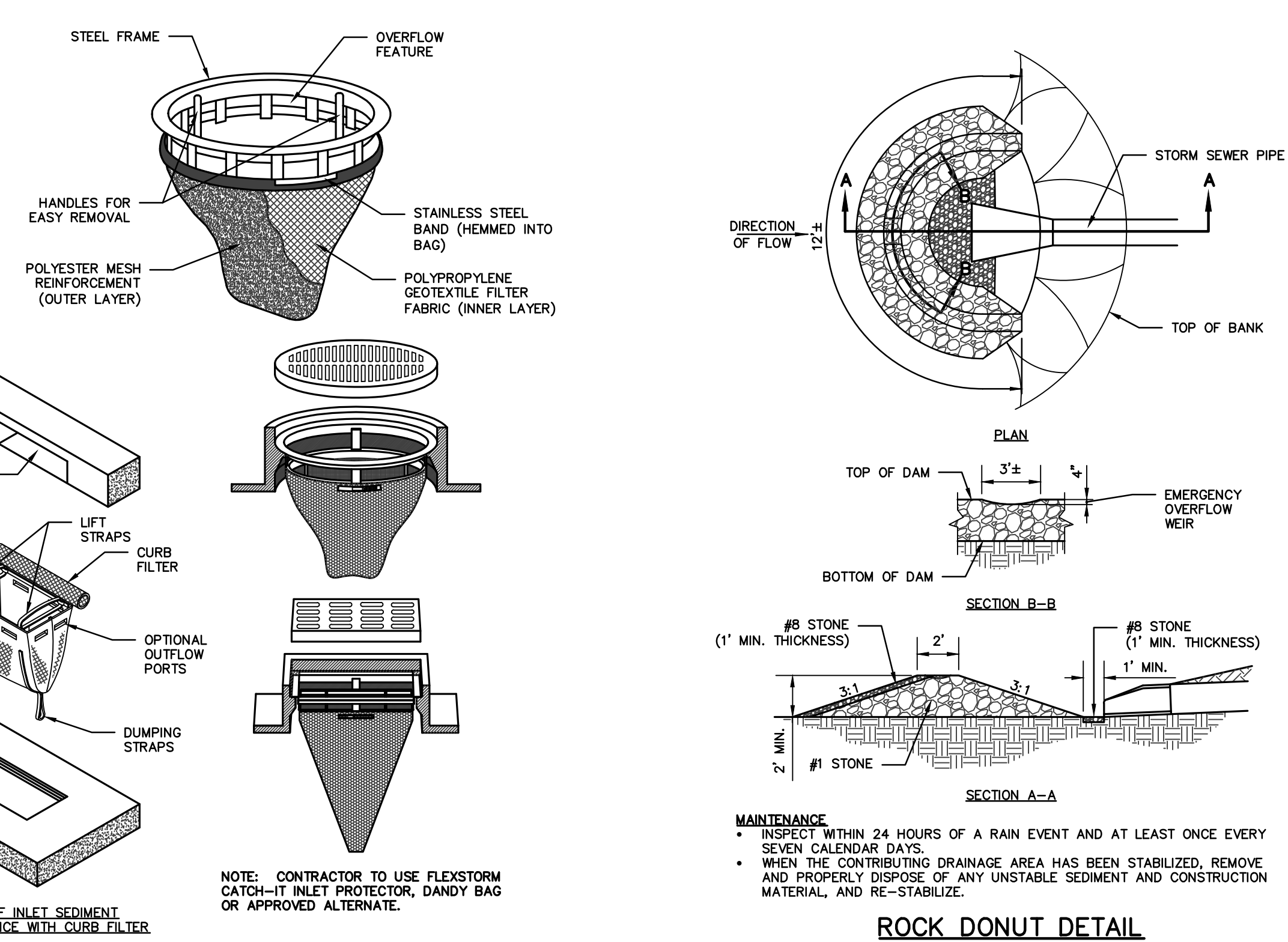
SITE MANAGEMENT

- COMPLETE CONSTRUCTION/INSTALLATION OF THE SYSTEM AND HAVE WASHOUT LOCATIONS OPERATIONAL PRIOR TO CONCRETE DELIVERY.
- DO NOT WASH OUT CONCRETE TRUCKS OR EQUIPMENT INTO STORM DRAINS, WETLANDS, STREAMS, RIVERS, CREEKS, DITCHES, OR STREETS.
- NEVER WASH OUT INTO A STORM SEWER DRAINAGE SYSTEM. THESE SYSTEMS ARE TYPICALLY CONNECTED TO A NATURAL CONVEYANCE SYSTEM.
- WHERE NECESSARY, PROVIDE STABLE INGRESS AND EGRESS.
- IT IS RECOMMENDED THAT WASHOUT SYSTEMS BE RESTRICTED TO WASHING CONCRETE FROM MIXER AND PUMP TRUCKS AND NOT USED TO DISPOSE OF EXCESS CONCRETE OR RESIDUAL LOADS DUE TO THE POTENTIAL TO EXCEED THE DESIGN CAPACITY OF THE WASHOUT SYSTEM. SMALL AMOUNTS OF EXCESS OR RESIDUAL CONCRETE (NOT WASHOUT WATER) MAY BE DISPOSED OF IN

CONCRETE WASH OUT
NOT TO SCALE (REV. 01/17)



DROP-IN INLET PROTECTION
NOT TO SCALE (REV. 01/17)



SPECIFICATIONS

NOTE: ALTERNATIVE SUPPORT SYSTEMS MAY BE SUBSTITUTED FOR HARDWOOD POSTS AND CROSS BRACES.

CONTRIBUTING DRAINAGE AREA

- ONE ACRE MAXIMUM.

EFFECTIVE LIFE

- SIX MONTHS (MAXIMUM).

CAPACITY

- RUNOFF FROM A TWO-YEAR FREQUENCY, 24-HOUR STORM EVENT ENTERING A STORM DRAIN WITHOUT BYPASS FLOW.

GEOTEXTILE STRUCTURE

- HEIGHT - 12 TO 18 INCHES, MEASURED FROM THE TOP OF STORM DRAIN INLET.
- POST SPACING - 36-INCH MAXIMUM SPACING BETWEEN POSTS.
- FRAME SUPPORT - BRACING TO STRENGTHEN INTEGRITY OF THE STRUCTURE. (STRUCTURE MUST WITHSTAND 1/2-FOOT HEAD OF WATER AND SEDIMENT WITHOUT COLLAPSING OR WITHSTANDING.)

MATERIALS

- SUPPORT POSTS
 - 2 x 2 INCH OR 2 x 4 INCH HARDWOOD POSTS.
 - THREE FEET LENGTH, MINIMUM.
- 1 x 2 INCH OR 1 x 3 INCH HARDWOOD CROSS BRACING MEMBER.
- LATHE.
- STAPLES OR NAILS.
- GEOTEXTILE FABRIC.

TABLE 2. GEOTEXTILE FABRIC SPECIFICATIONS FOR SILT FENCE (MINIMUM)

PHYSICAL PROPERTY	WOVEN GEOTEXTILE FABRIC	NON-WOVEN GEOTEXTILE FABRIC
FILTERING EFFICIENCY	85%	85%
UV RESISTANCE (INHIBITORS AND STABILIZERS TO ENSURE SIX MONTH MINIMUM LIFE AT TEMPERATURES 0° TO 120° F)	70%	85%
TEXTILE STRENGTH AT 20% ELONGATION		
STANDARD STRENGTH	30 LBS. PER LINEAL INCH	50 LBS. PER LINEAL INCH
EXTRA STRENGTH	50 LBS. PER LINEAL INCH	70 LBS. PER LINEAL INCH
SLURRY FLOW RATE	0.3 GAL./MIN./SQUARE FOOT	4.5 GAL./MIN./SQUARE FOOT
WATER FLOW RATE	15 GAL./MIN./SQUARE FOOT	220 GAL./MIN./SQUARE FOOT

INSTALLATION

- DIG AN EIGHT-INCH DEEP, FOUR-INCH WIDE TRENCH AROUND THE PERIMETER OF THE INLET.
- IF USING PRE-ASSEMBLED GEOTEXTILE FABRIC AND POSTS, DRIVE THE POSTS INTO THE SOIL, TIGHTLY STRETCHING THE GEOTEXTILE FABRIC TO THE POSTS BY PLACING A PIECE OF LATHE OVER THE FABRIC AND FASTENING IT TO THE POST (STRETCHING THE FABRIC BETWEEN POSTS AS IT IS FASTENED).
- USE THE WRAP JOIN METHOD WHEN JOINING POSTS.
- PLACE THE BOTTOM 12 INCHES OF GEOTEXTILE FABRIC INTO THE EIGHT-INCH DEEP TRENCH, LAYING THE REMAINING FOUR INCHES IN THE BOTTOM OF THE TRENCH AND EXTENDING AWAY FROM THE INLET.
- BACKFILL THE TRENCH WITH SOIL MATERIAL AND COMPACT IT IN PLACE.
- BRACE THE POSTS BY NAILING BRACES INTO EACH CORNER POST OR UTILIZE RIGID PANELS TO SUPPORT FABRIC.

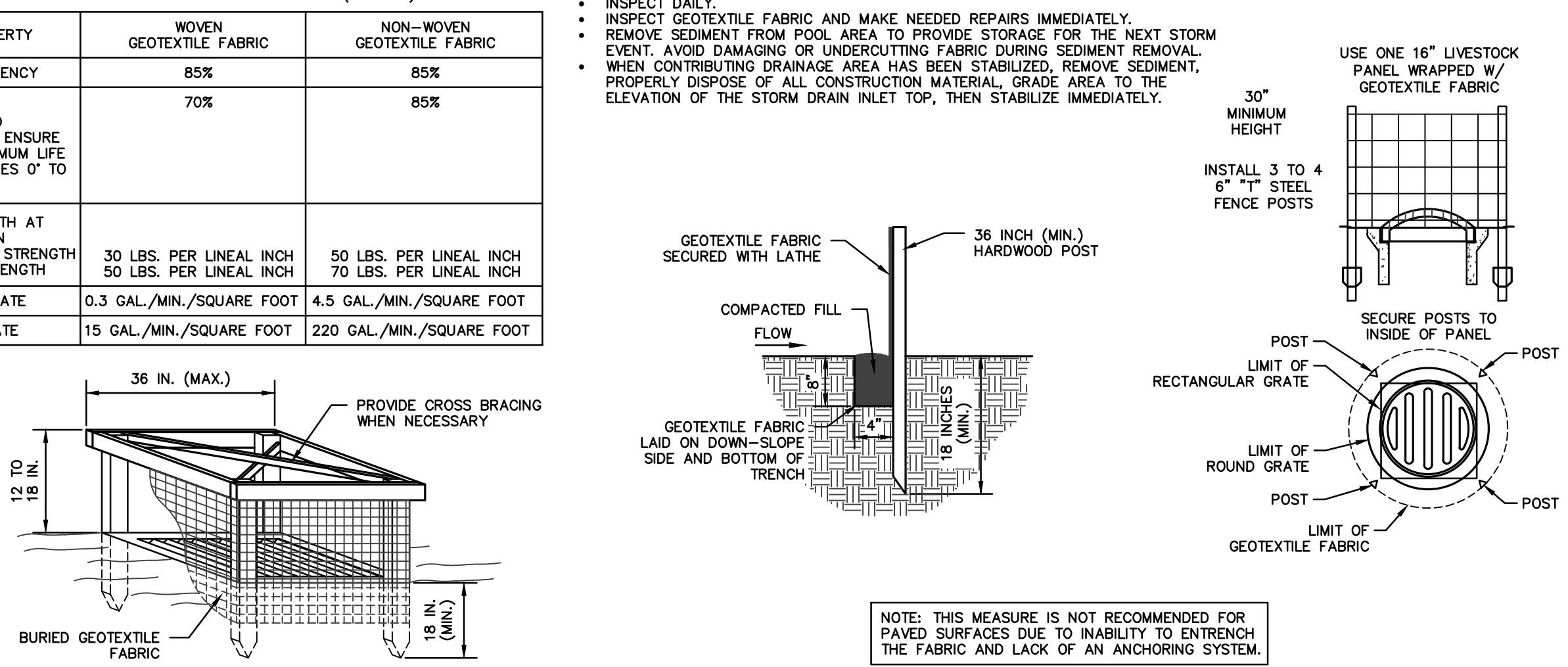
NOTE: IF ASSEMBLING THE GEOTEXTILE FABRIC AND POSTS ON-SITE, DRIVE THE POSTS INTO THE SOIL AND THEN SECURE THE GEOTEXTILE FABRIC TO THE POSTS BY PLACING A PIECE OF LATHE OVER THE FABRIC AND FASTENING IT TO THE POST (STRETCHING THE FABRIC BETWEEN POSTS AS IT IS FASTENED).

NOTE: IN SITUATIONS WHERE STORM WATER MAY BYPASS THE STRUCTURE, EITHER:

- SET THE TOP OF THE GEOTEXTILE FABRIC FILTER AT LEAST SIX INCHES LOWER THAN THE GROUND ELEVATION ON THE DOWN-SLOPE SIDE OF THE STORM DRAIN INLET.
- BUILD A TEMPORARY DIKE, COMPACTED TO SIX INCHES HIGHER THAN THE FABRIC, ON THE DOWN-SLOPE SIDE OF THE STORM DRAIN INLET, AND/OR
- USE IN CONJUNCTION WITH EXCAVATED DROP INLET PROTECTION.

MAINTENANCE

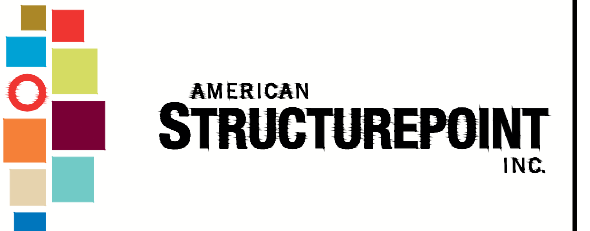
- INSPECT DAILY.
- INSPECT GEOTEXTILE FABRIC AND MAKE NEEDED REPAIRS IMMEDIATELY.
- REMOVE SEDIMENT FROM POOL AREA TO PROVIDE STORAGE FOR THE NEXT STORM EVENT. AVOID DAMAGING OR UNDERCUTTING FABRIC DURING SEDIMENT REMOVAL.
- WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE SEDIMENT, PROPERLY DISPOSE OF ALL CONSTRUCTION MATERIAL, GRADE AREA TO THE ELEVATION OF THE STORM DRAIN INLET TOP, THEN STABILIZE IMMEDIATELY.



SILT FENCE INLET PROTECTION
NOT TO SCALE (REV. 01/17)



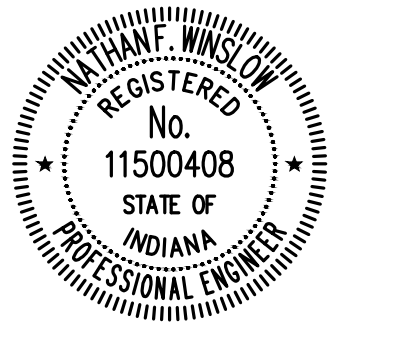
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PORTER COUNTY NORTH ANNEX

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CERTIFIED BY
Nathan Winslow

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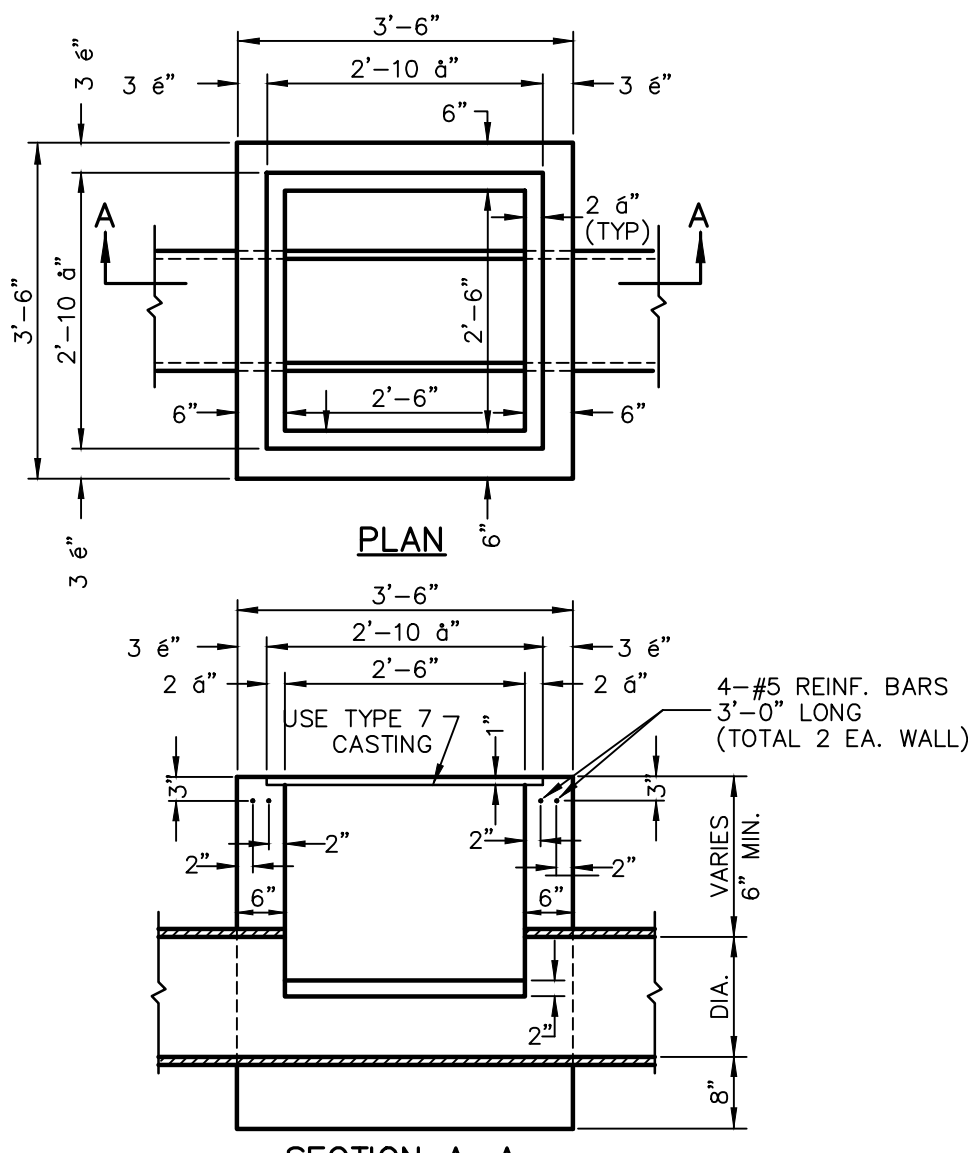
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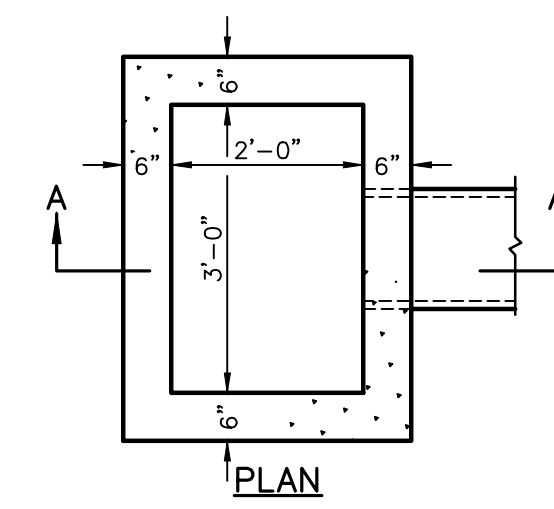
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EROSION CONTROL DETAILS

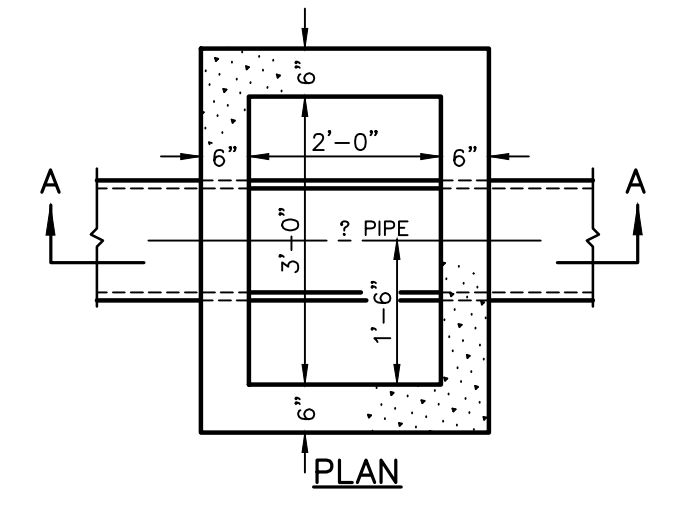
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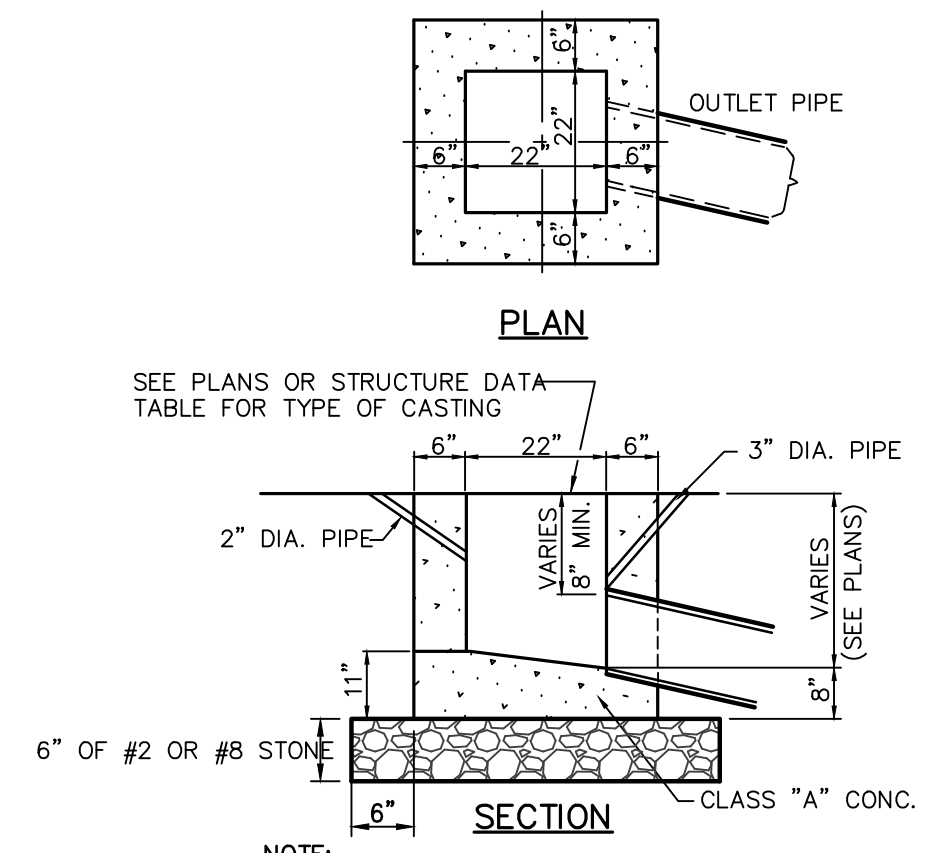
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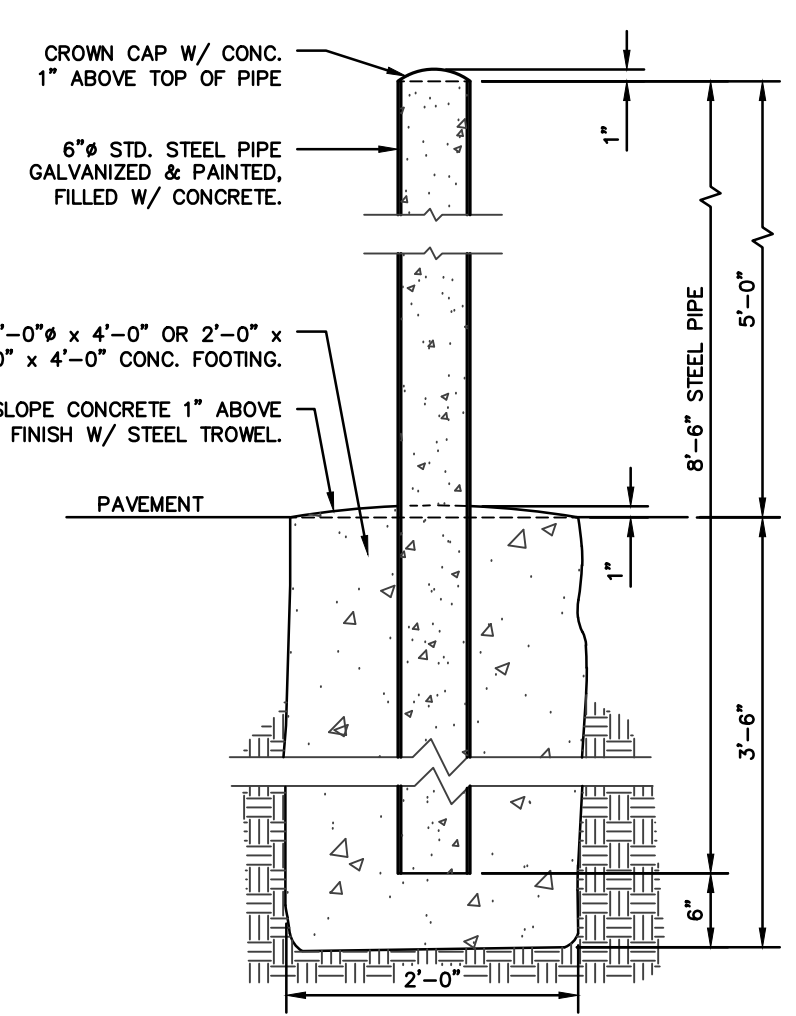
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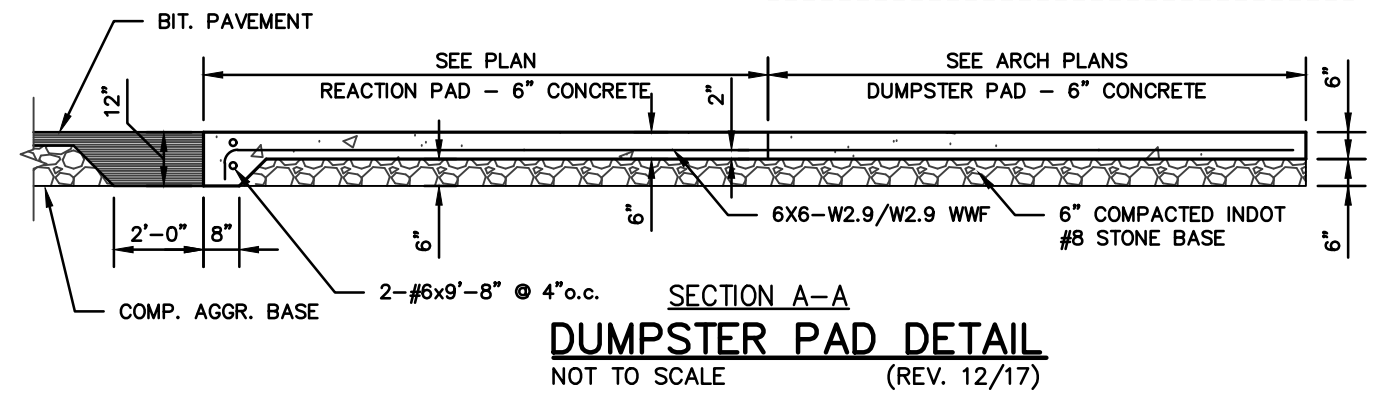
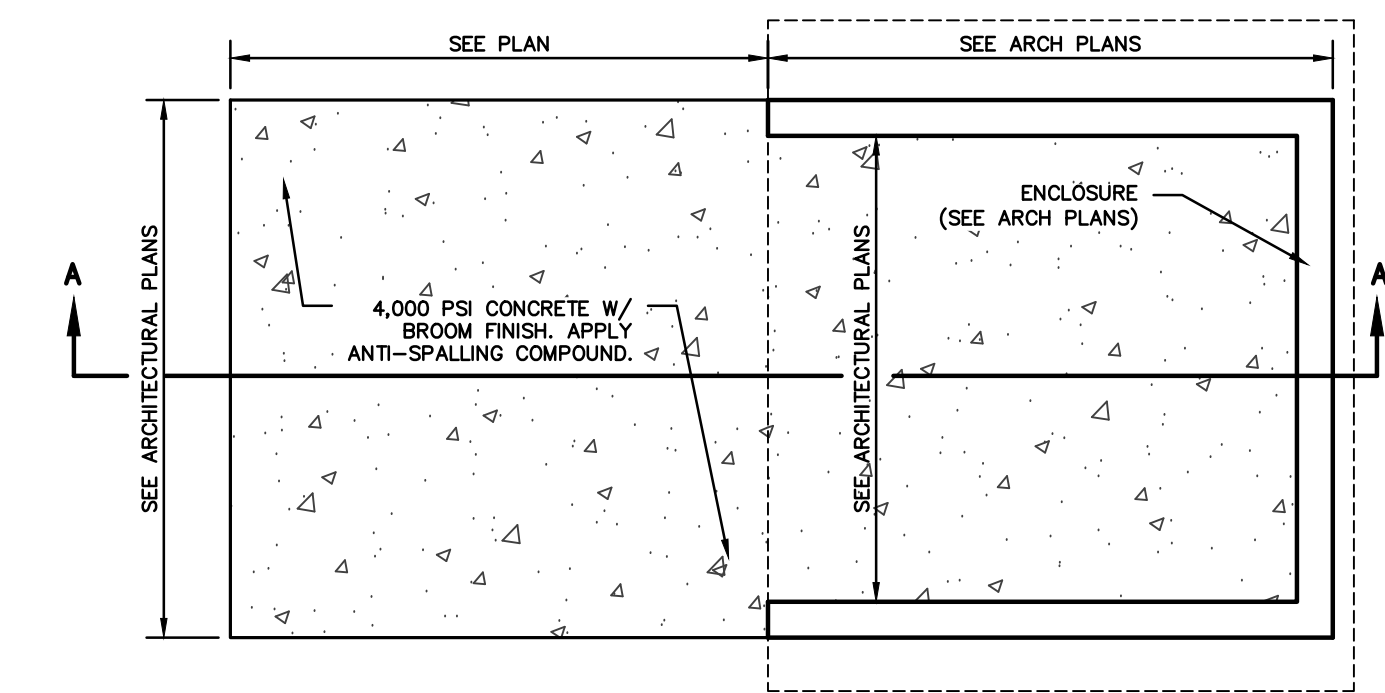
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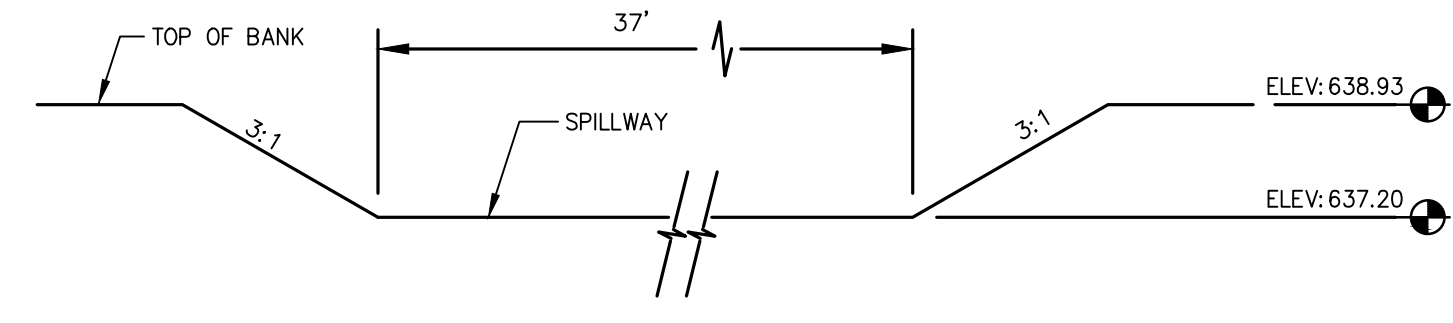
INLET TYPE "A"
NOT TO SCALE



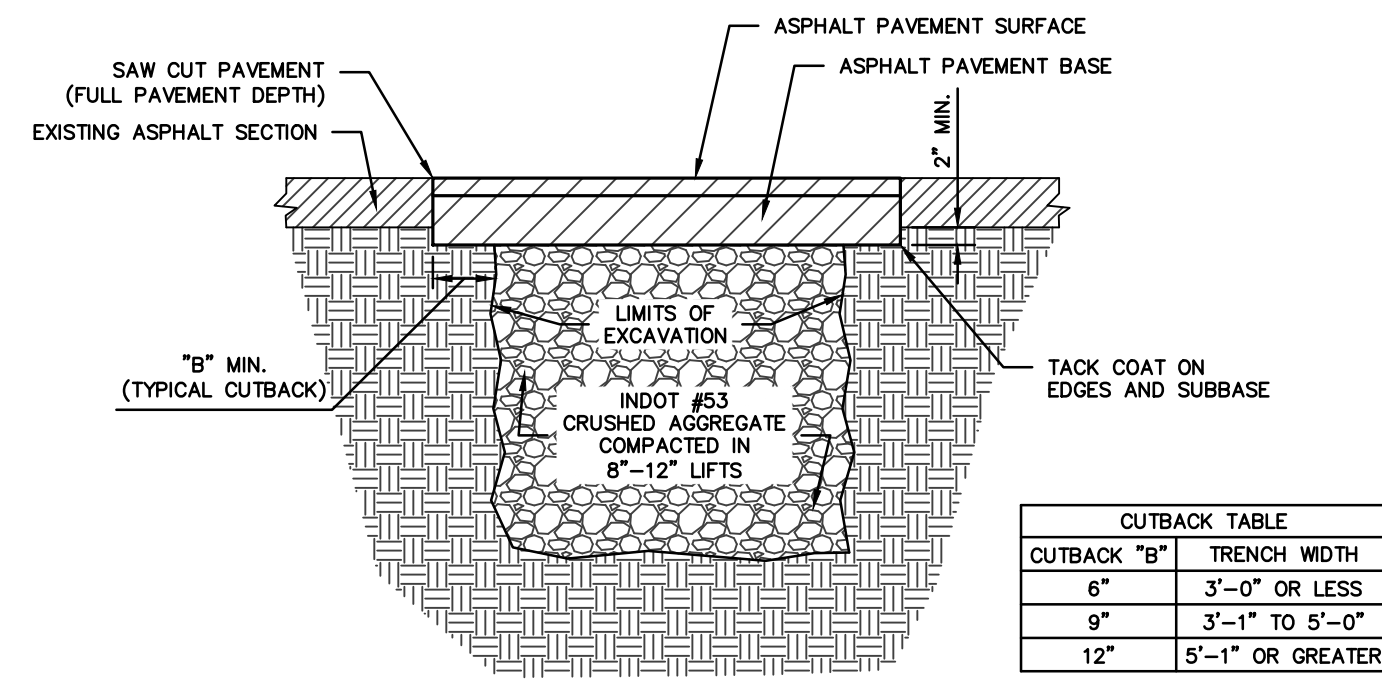
CONCRETE BOLLARD DETAIL
NOT TO SCALE (REV. 01/17)



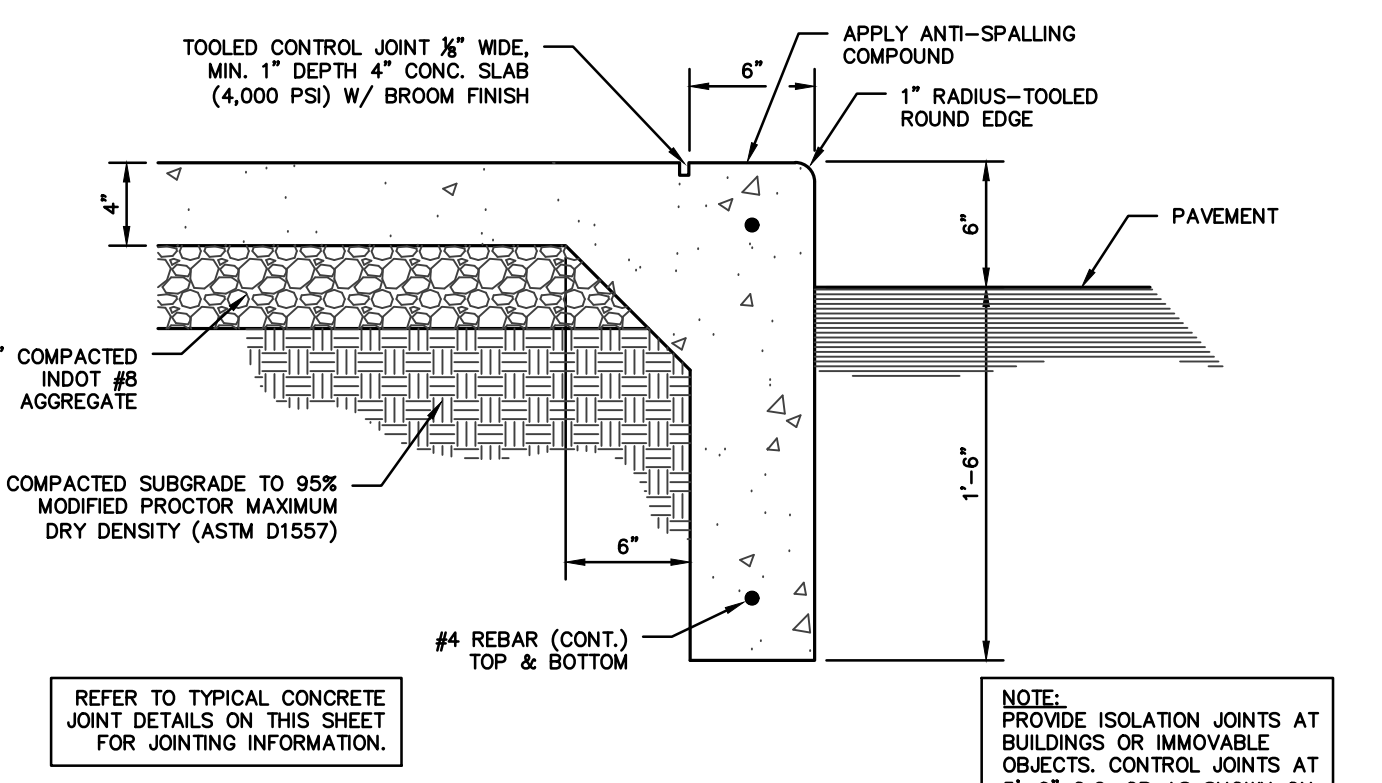
DUMPSTER PAD DETAIL
NOT TO SCALE (REV. 12/17)



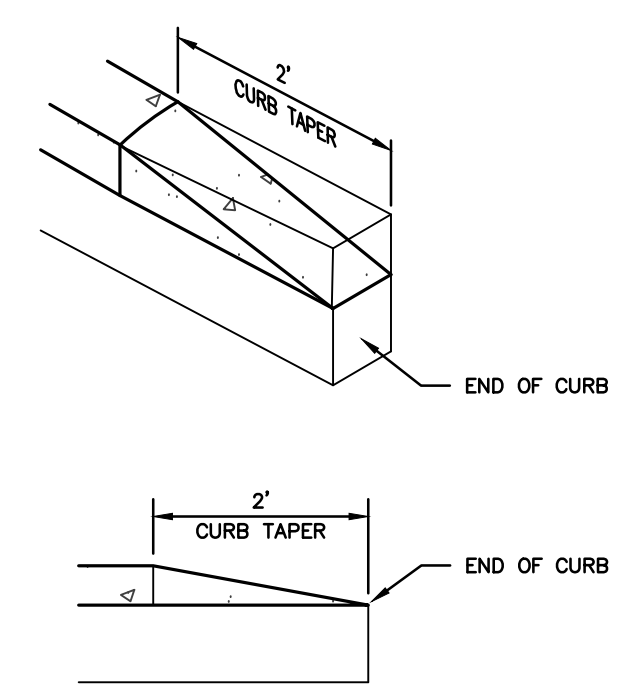
EMERGENCY SPILLWAY DETAIL (WET POND)
NOT TO SCALE



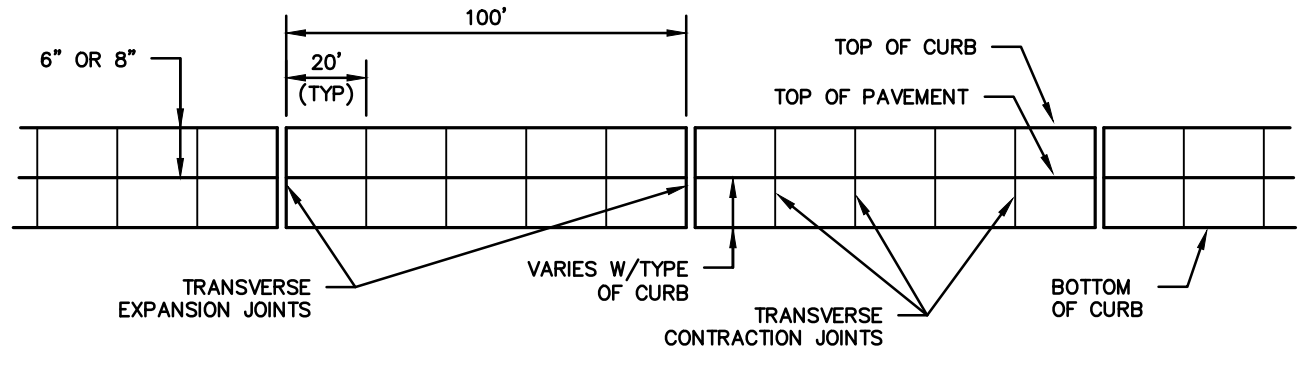
ASPHALT PAVEMENT REPAIR
NOT TO SCALE (REV. 01/17)



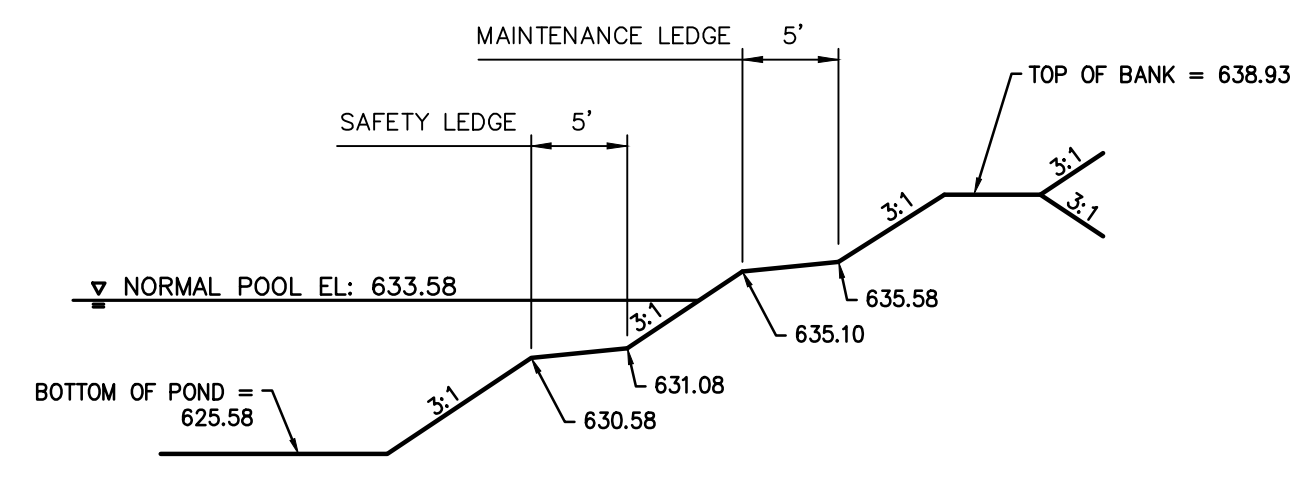
COMBINED CONCRETE CURB AND WALK
NOT TO SCALE (REV. 01/17)



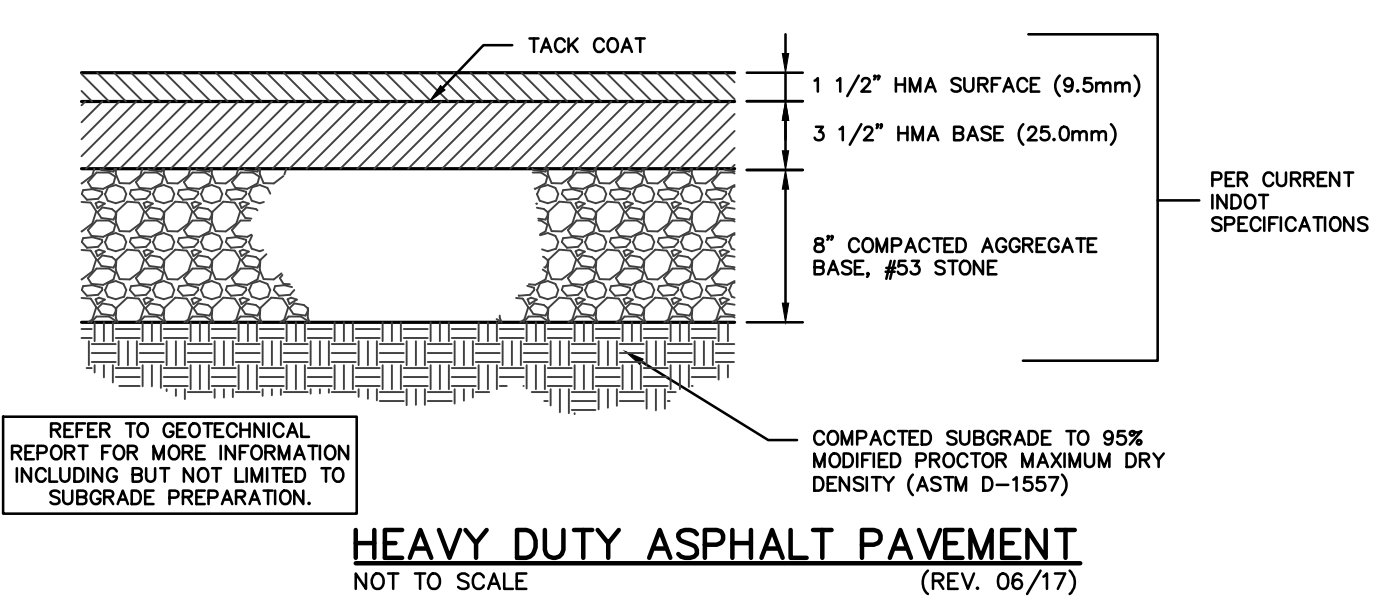
CURB TAPER DETAIL
NOT TO SCALE (REV. 01-17)



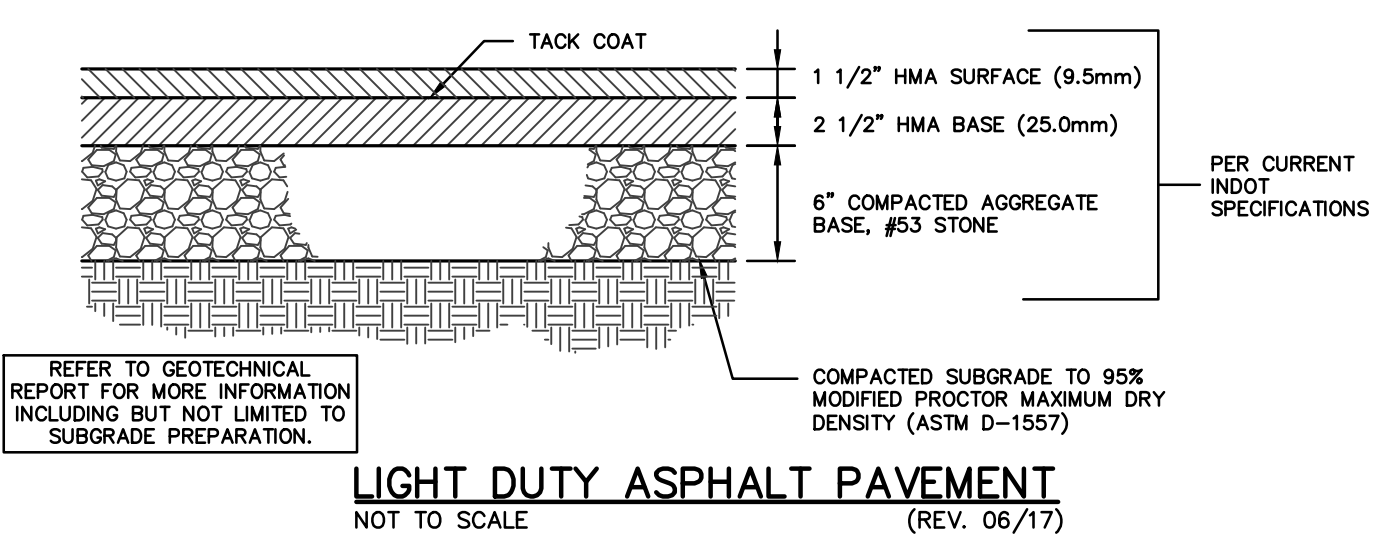
CURB JOINT DETAIL
NOT TO SCALE (REV. 01/17)



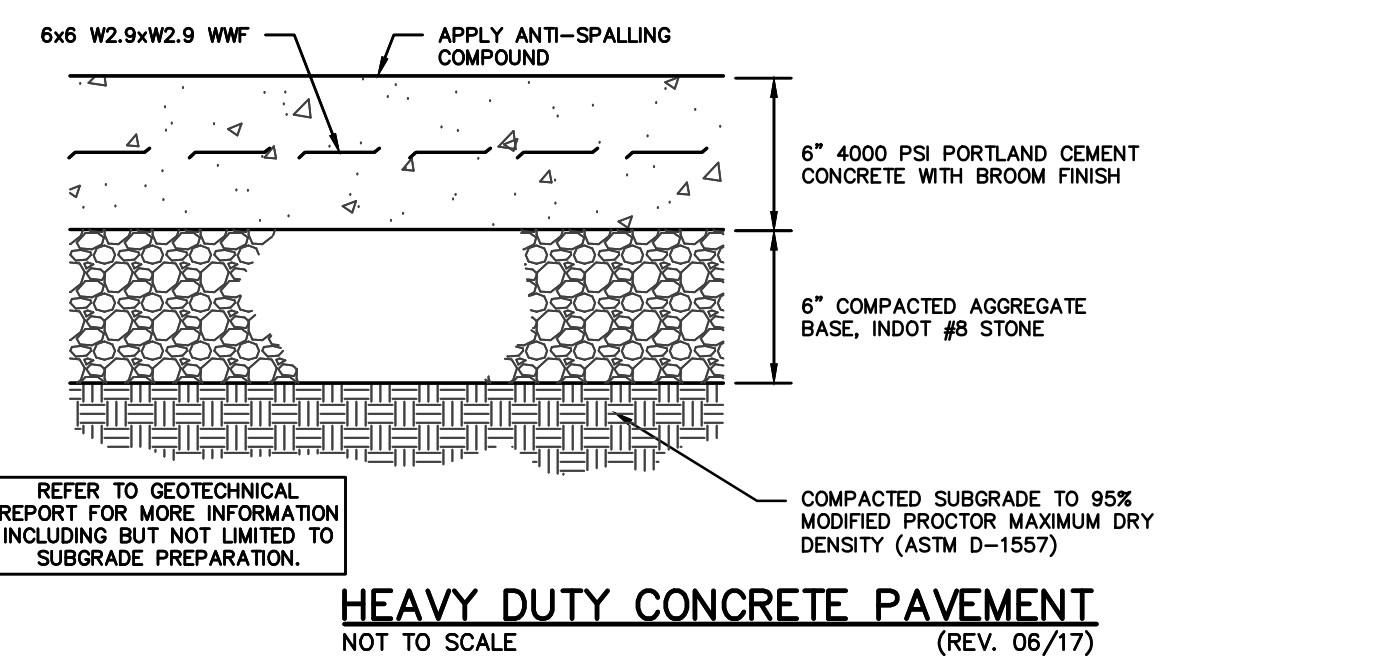
TYPICAL WET POND SECTION
NOT TO SCALE



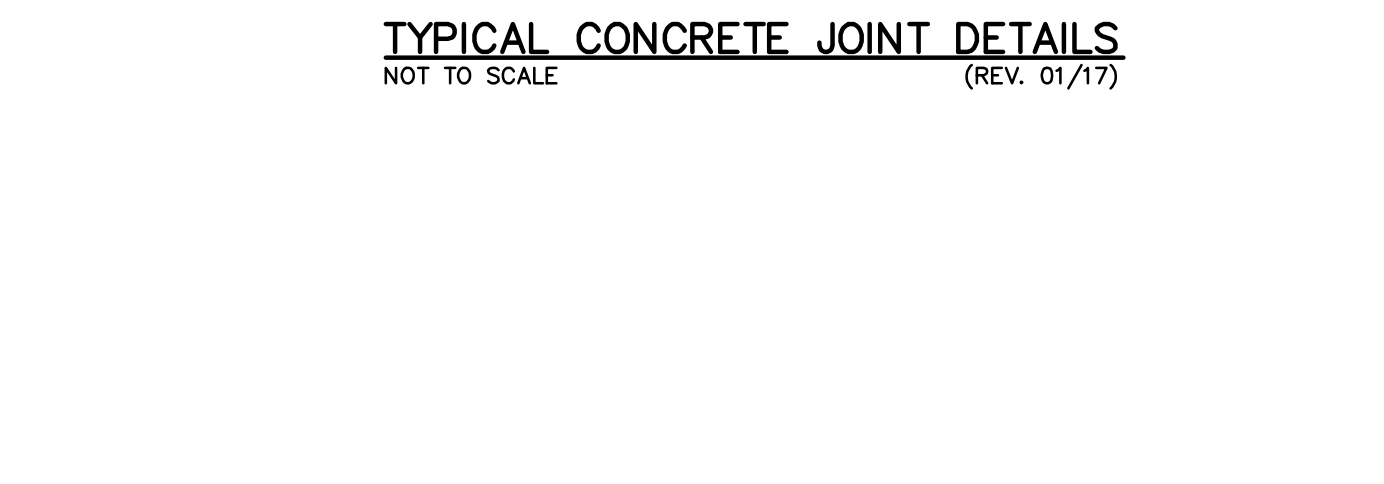
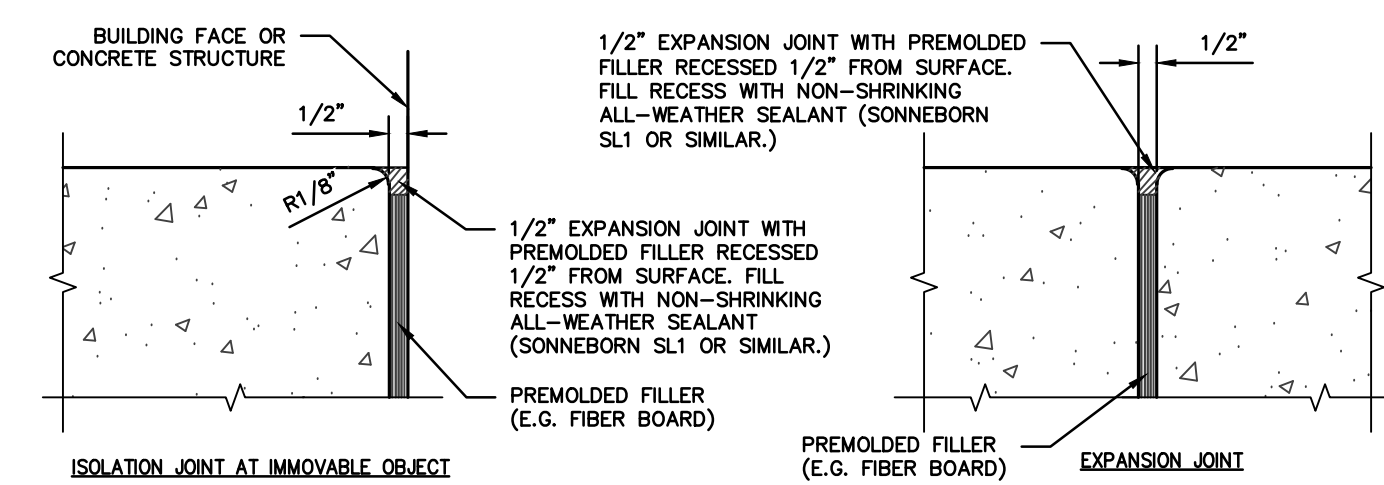
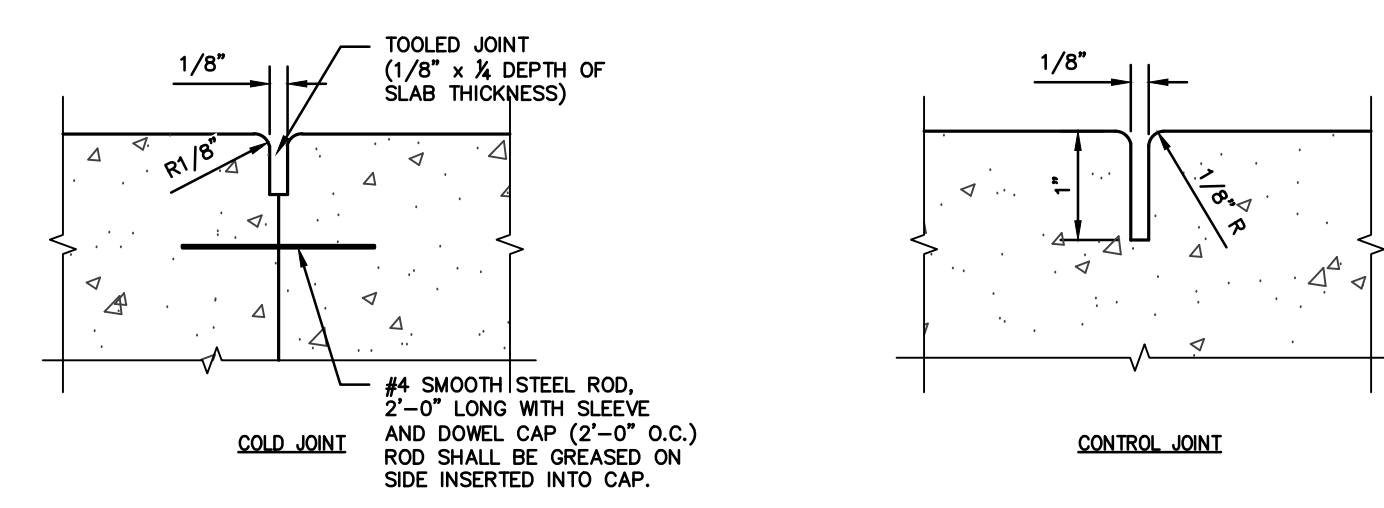
HEAVY DUTY ASPHALT PAVEMENT
NOT TO SCALE (REV. 06/17)



LIGHT DUTY ASPHALT PAVEMENT
NOT TO SCALE (REV. 06/17)



HEAVY DUTY CONCRETE PAVEMENT
NOT TO SCALE (REV. 06/17)



TYPICAL CONCRETE JOINT DETAILS
NOT TO SCALE (REV. 01/17)



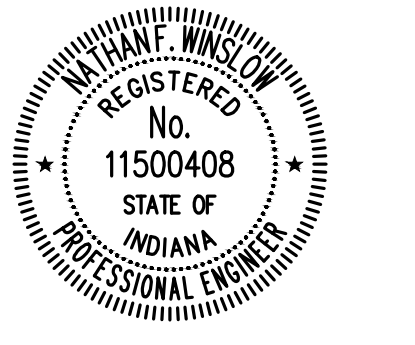
155 Indiana Avenue
Valparaiso, IN 46383



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TEL 317.547.5680 | FAX 317.543.0270
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**PORTER COUNTY
NORTH ANNEX**

**3560 WILLOWCREEK RD
PORTAGE, IN 46368**



Nathan Winslow
CERTIFIED BY

ISSUANCE INDEX	
DATE:	08/17/2018
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

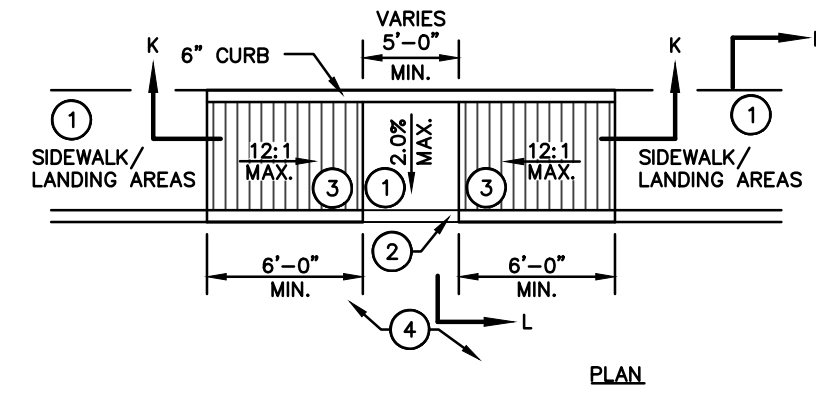
REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

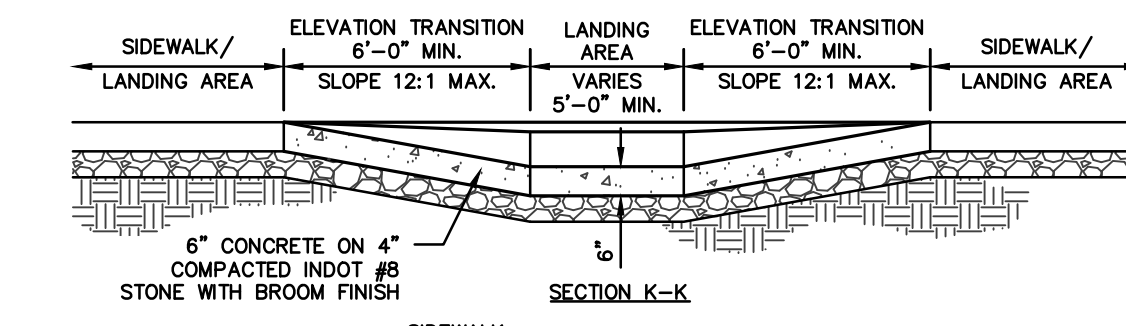
SITE DETAILS

C600

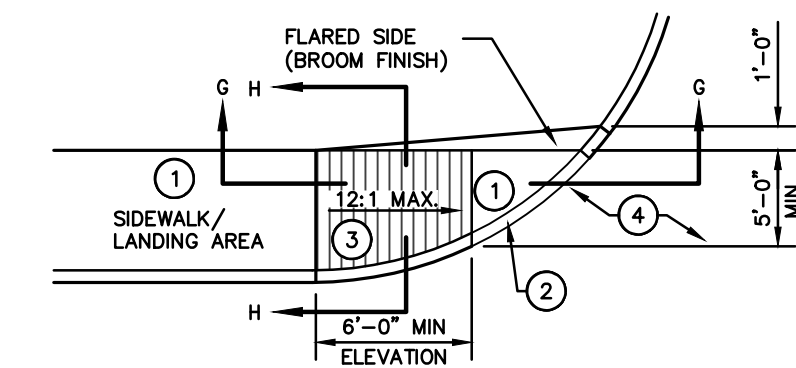
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EDIT TIME: 9:20 AM
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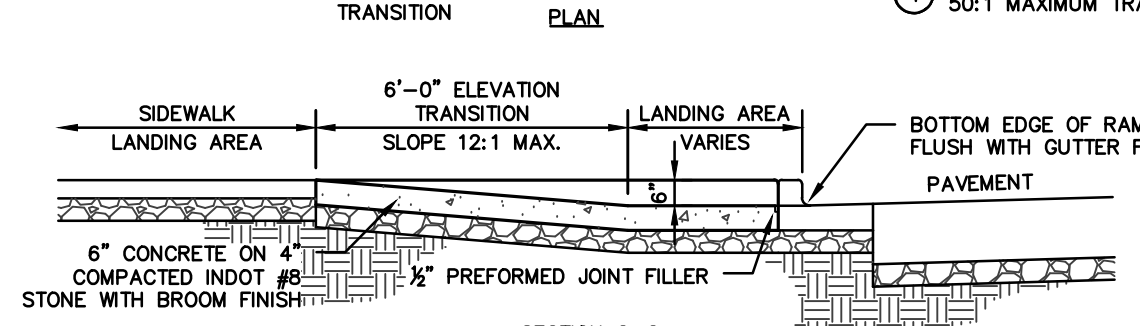
- NOTES:
- LANDING AREAS AT TOP OF BOTTOM OF RAMP SHALL HAVE A MAXIMUM CROSS SLOPE OF 50:1 IN ANY DIRECTION.
 - THE BOTTOM EDGE OF THE CURB RAMP SHALL BE FLUSH WITH THE EDGE OF THE PAVEMENT OR GUTTER LINE.
 - TOOLED GROOVES ON SIDEWALK ELEVATION TRANSITION. GROOVES SHALL BE 0.3" DEEP AND SPACED 2" O.C. ALONG SIDEWALK ELEVATION TRANSITION.
 - APPROACH AREA SHALL BE SLOPED AT 50:1 MAXIMUM TRANSVERSELY.



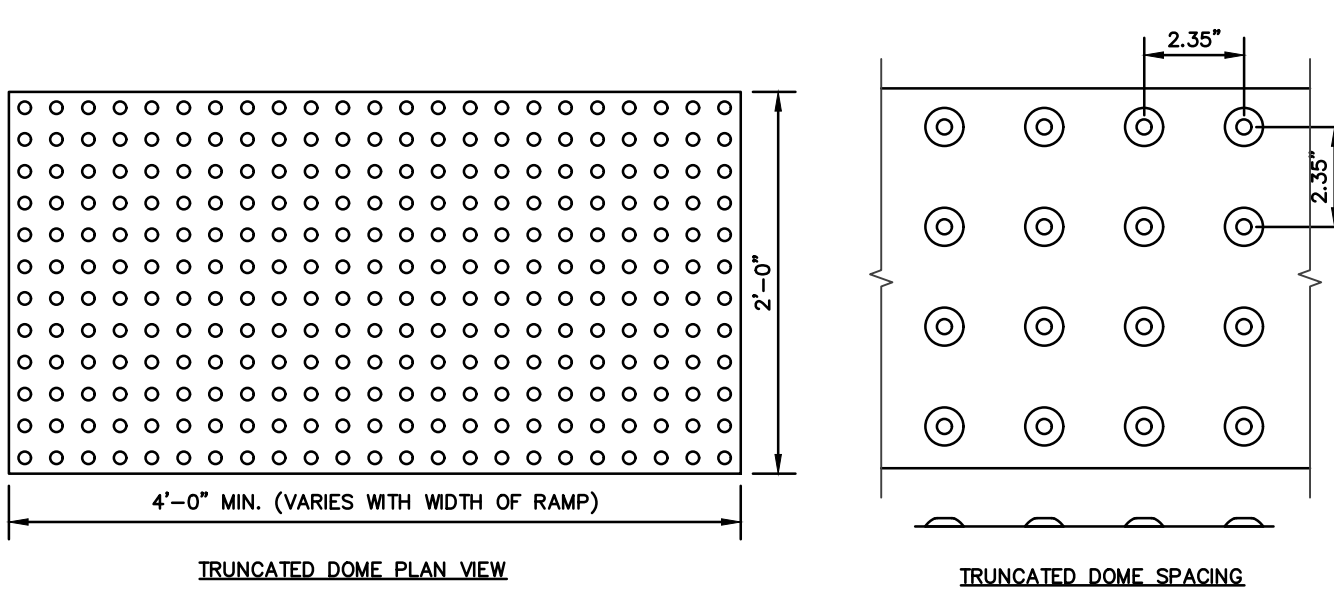
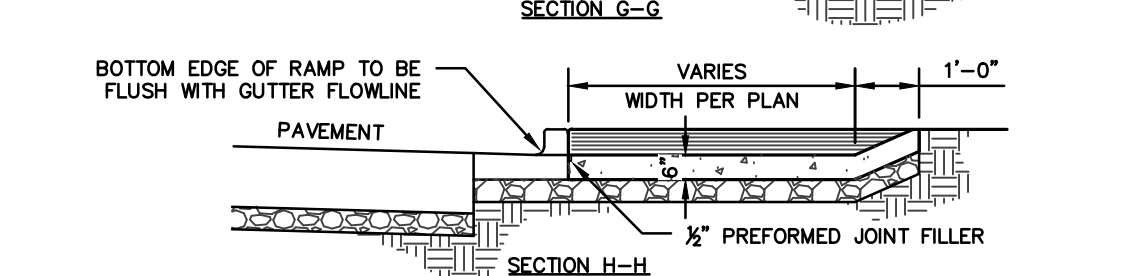
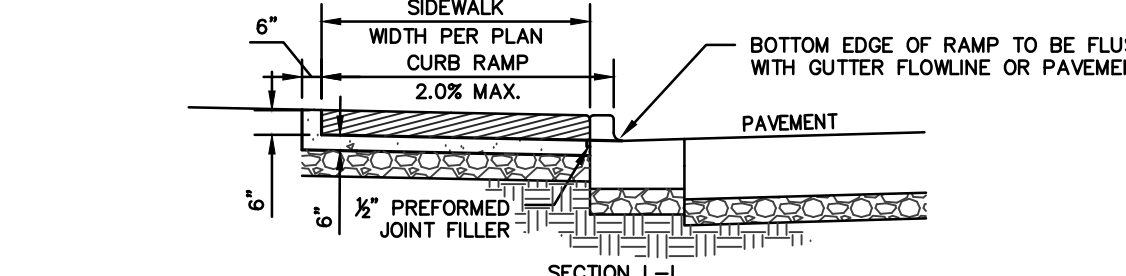
ADA ACCESSIBLE RAMP, TYPE 'K'
NOT TO SCALE (REV. 12/17)



- NOTES:
- LANDING AREAS AT TOP OF BOTTOM OF RAMP SHALL HAVE A MAXIMUM CROSS SLOPE OF 50:1 IN ANY DIRECTION.
 - THE BOTTOM EDGE OF THE CURB RAMP SHALL BE FLUSH WITH THE EDGE OF THE PAVEMENT OR GUTTER LINE.
 - TOOLED GROOVES ON SIDEWALK ELEVATION TRANSITION. GROOVES SHALL BE 0.3" DEEP AND SPACED 2" O.C. ALONG SIDEWALK ELEVATION TRANSITION.
 - APPROACH AREA SHALL BE SLOPED AT 50:1 MAXIMUM TRANSVERSELY.

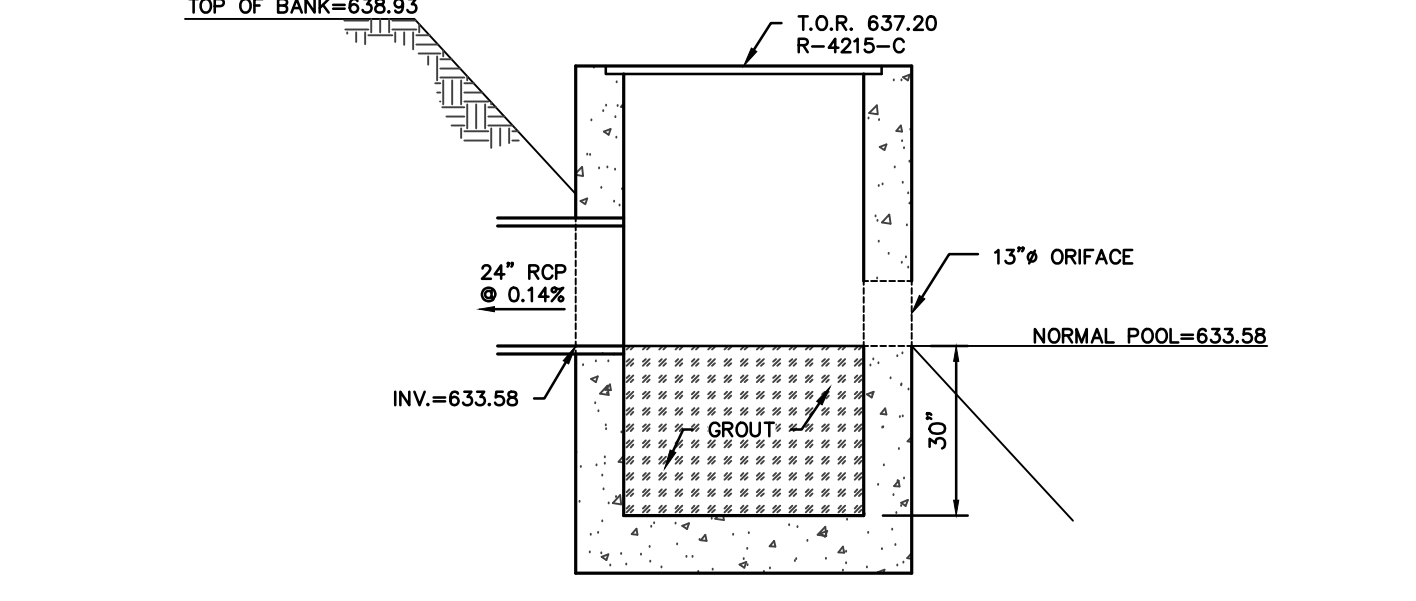


ADA ACCESSIBLE RAMP, TYPE 'H'
NOT TO SCALE (REV. 12/17)

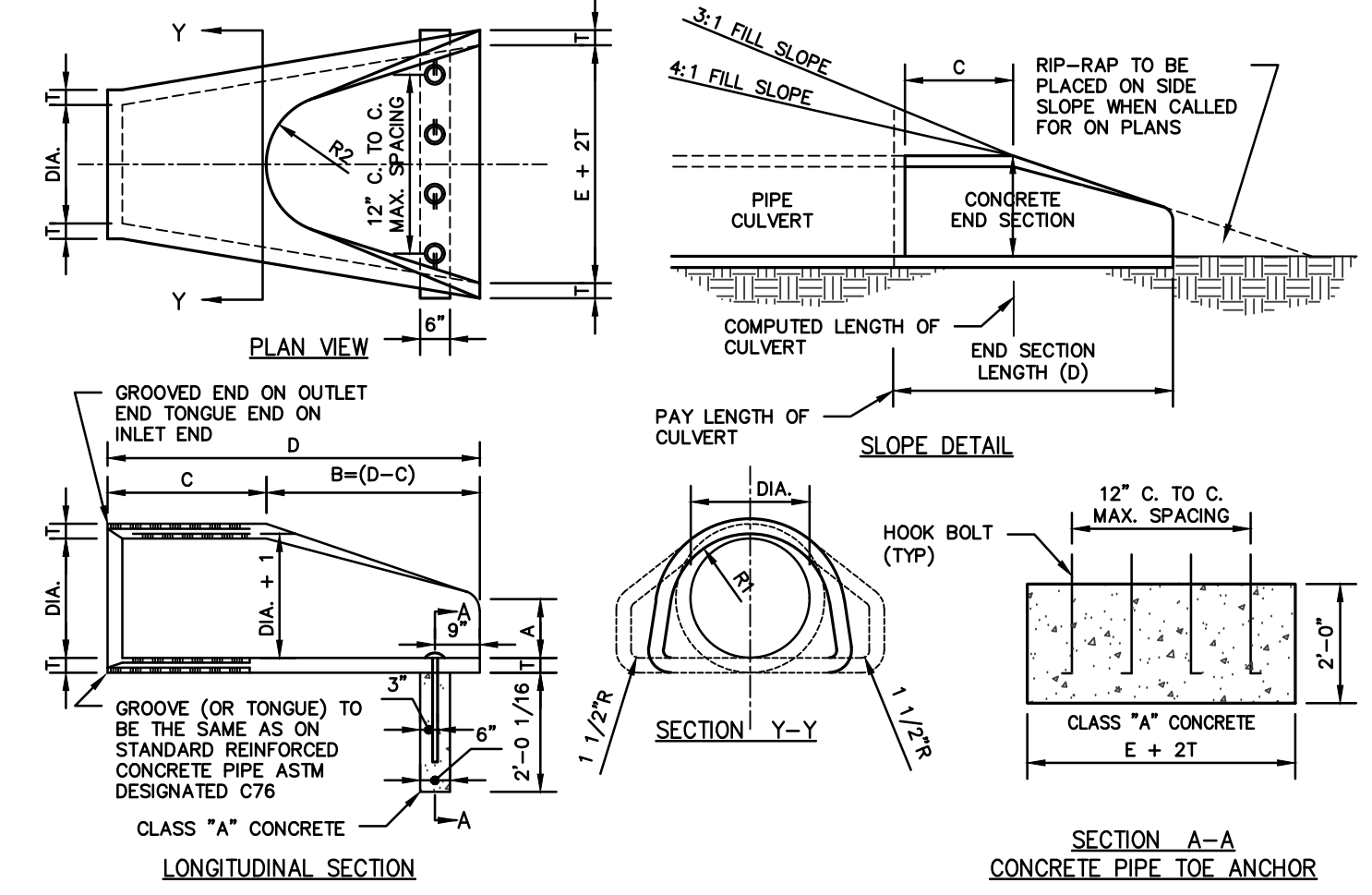


- NOTES:
- DETECTABLE WARNINGS SHALL BE OF THE PAVEMENT OR MAT TYPE WITH ADHESIVE PER MANUFACTURERS SPECIFICATIONS.
 - WIDTH OF DETECTABLE WARNING AREA SHALL BE A MINIMUM OF 4 FEET AND VARY WITH WIDTH OF RAMP.
 - LENGTH OF DETECTABLE WARNING AREA SHALL BE 2 FEET REGARDLESS OF SECTION WIDTH.
 - DETECTABLE WARNING AREA CAN BE SQUARE WHERE USED IN A CURB RADII.
 - DETECTABLE WARNING DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
 - DETECTABLE WARNING AREA SHALL BE A CONTRASTING COLOR IN ALL LOCATIONS.
 - IF MATS ARE TO BE USED, EDGES SHALL BE BEVELED TO ELIMINATE TRIP HAZARD.

TRUNCATED DOMES PLAN AND CROSS-SECTION
NOT TO SCALE (REV. 01/17)



OUTLET CONTROL STRUCTURE 700 (TYPE F INLET)
NOT TO SCALE



CONCRETE IN THESE END SECTIONS SHALL BE THE SAME GRADE AND STRENGTH AS SPECIFIED FOR REINFORCED CONCRETE PIPE, A.S.T.M. DESIGNATION C-76 (as set out in standard specifications).

REINFORCEMENT IN THE "C" PORTION SHALL BE THE SAME AS SPECIFIED FOR REINFORCED CONCRETE, A.S.T.M. DESIGNATION C-76 FOR THE SIZE OF CONNECTING PIPE. (as set out in standard specifications.)

REINFORCEMENT IN THE "B" PORTION SHALL HAVE A CROSS SECTIONAL AREA EQUAL TO THAT OF ONE LAYER OF STEEL IN THE "C" PORTION.

THE END OF THE PIPE CULVERT SHALL BE PLACED IN THE CONCRETE END SECTION SO THAT THE FLOW LINES ARE FLUSH. THE JOINT SHALL BE COMPLETELY FILLED WITH MORTAR.

IN 3:1 OR 4:1 FILL SLOPE, CHANGE TO THE SLOPE OF THE END SECTION IN A SMOOTH, PLEASING TRANSITION APPROXIMATELY 10'-0" IN LENGTH.

VARIATIONS IN DIMENSIONS - THE THICKNESS OR THE CONCRETE, THE POSITION OF STEEL, AND THE INTERNAL DIAMETER OF THE PIPE SHALL CONFORM WITH THE VARIATIONS IN DIMENSIONS AS PROVIDED IN THE SPECIFICATIONS FOR REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, A.S.T.M. DESIGNATION C-76.

WHERE VITRIFIED CLAY CULVERT OR CAST IRON CULVERT PIPE IS USED, A "PIPE END SECTION" COMPARABLE TO THAT AS SHOWN FOR METAL OR CONCRETE SHALL BE FURNISHED AND SHALL BE AS APPROVED BY THE ENGINEER. EXCEPT IN AREAS OF ACID OR MINE WATER, THEN THE USE OF METAL END SECTION IS PROHIBITED.

CONCRETE PIPE TOE ANCHORS SHALL BE REQUIRED ON ALL CONCRETE PIPE END SECTIONS.

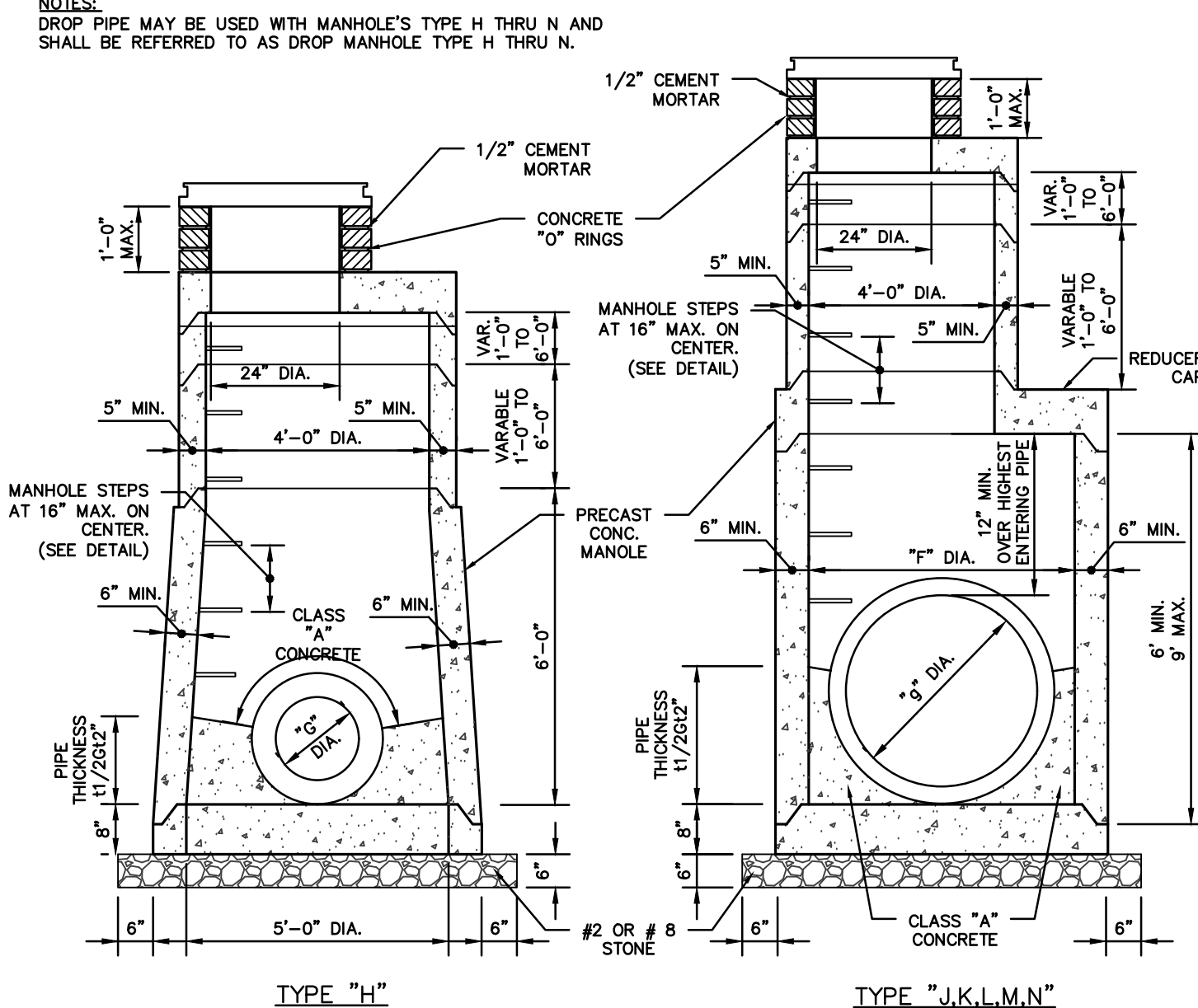
DIA. (MIN.)	A*	C*	D*	E*	K	R1	R2	APPROX. HEIGHT
12"	2"	5"	4'-3"	6'-2"	2'-0"	1.3	10 1/8"	9"
15"	2 1/4"	7"	4'-0"	6'-3"	2'-6"	1.5	12 1/2"	11"
18"	2 1/2"	11"	4'-1"	6'-2"	3'-0"	1.8	15 1/2"	12"
21"	2 3/4"	11"	3'-6"	6'-3"	3'-6"	2.1	16 1/8"	13"
24"	3"	12"	2'-8"	6'-3"	4'-0"	2.3	16 3/16"	14"
27"	3 1/4"	13"	2'-5"	6'-3"	4'-6"	2.6	18 3/16"	14 1/2"
30"	3 1/2"	14"	1'-10"	6'-3"	5'-0"	2.9	18 1/2"	15"
33"	3 3/4"	15"	3'-6"	6'-3"	5'-6"	3.1	23 3/4"	17 1/2"
36"	4"	17"	3'-1"	6'-3"	6'-0"	3.4	24 3/16"	20"

* TOLERANCE .61"

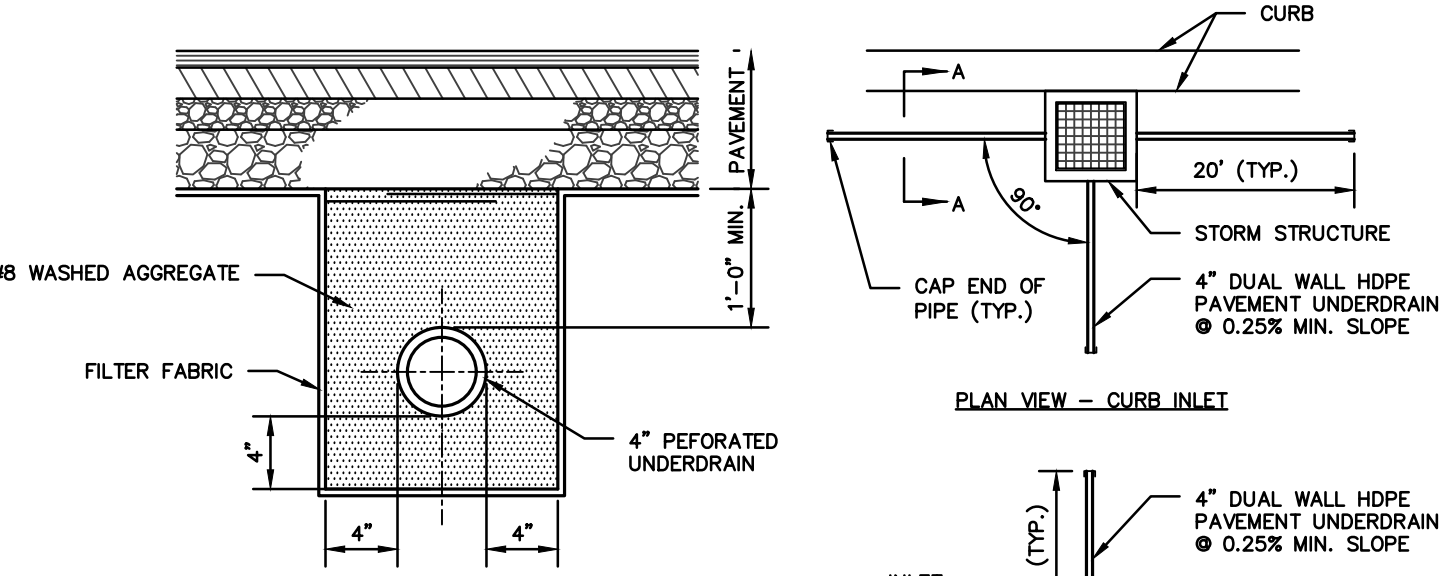
PRECAST CONCRETE END SECTION DETAIL
NOT TO SCALE (REV. 04/17)

MANHOLE			
TYPE	"G"	"F"	"H"
H	24"x36"	30"	36"
J	24"x36"	60"	33"
K	36"x48"	72"	48"
L	48"x54"	96"	54"
M	54"x72"	102"	66"
N	72"x84"	108"	72"

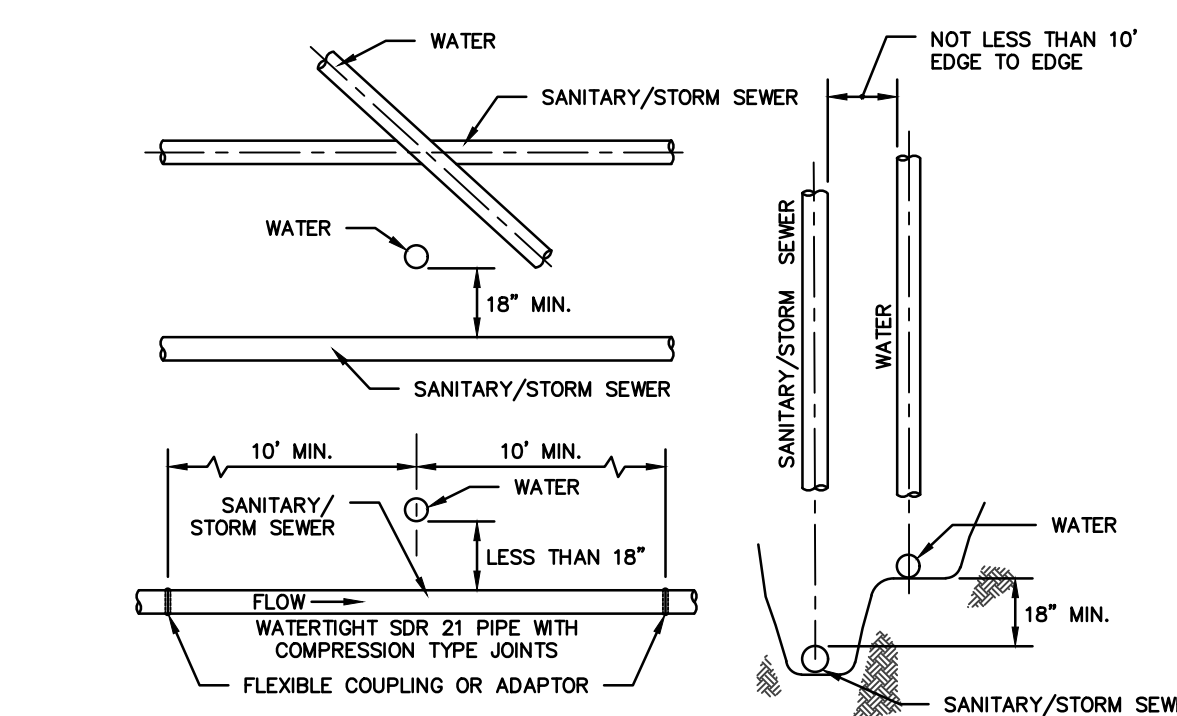
NOTES:
DROP PIPE MAY BE USED WITH MANHOLE'S TYPE H THRU N AND SHALL BE REFERRED TO AS DROP MANHOLE TYPE H THRU N.



MANHOLES TYPE "H, J, K, L, M & N" DETAIL
NOT TO SCALE (REV. 06/17)

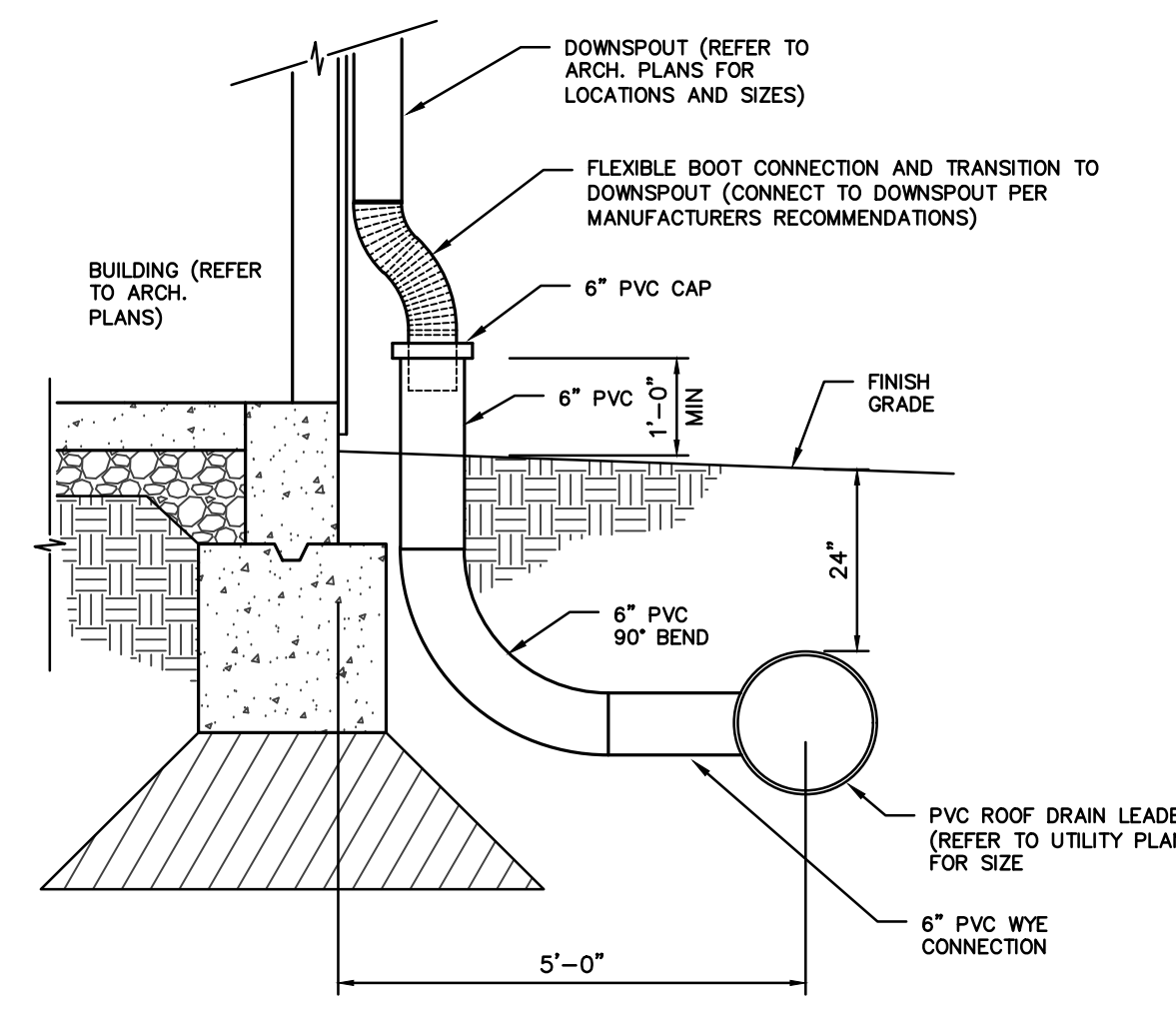


PAVEMENT UNDERDRAIN DETAIL
NOT TO SCALE (REV. 06/17)

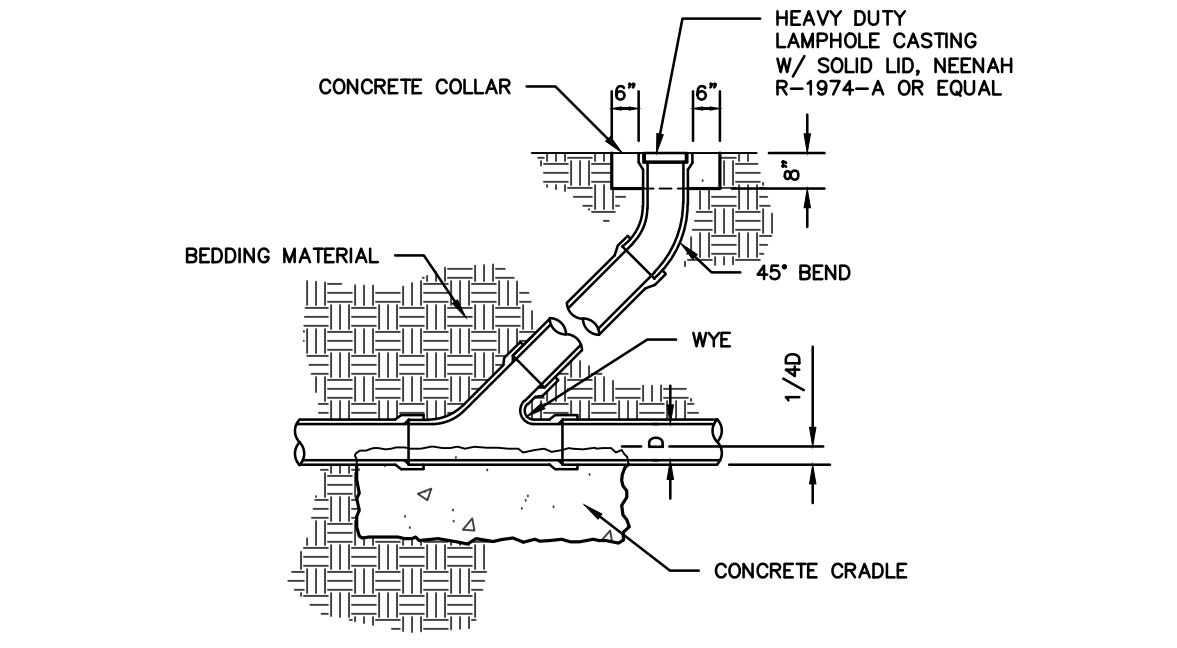


- NOTES:
- WHEN LATERAL SEPARATION IS 10' OR GREATER NO VERTICAL CLEARANCE IS NEEDED.
 - ALL CROSSINGS AND SEPARATIONS TO BE 327 IAC.
 - WHEN HORIZONTAL SEPARATION IS LESS THAN 10' OR VERTICAL SEPARATION IS LESS THAN 18", SANITARY PIPE MUST BE WATER TIGHT SDR 21 WITH COMPRESSION TYPE JOINTS.
 - CONTRACTOR SHALL VERIFY THAT MORE STRINGENT SEPARATION REQUIREMENTS DO NOT EXIST WITH THE JURISDICTIONAL WATER UTILITY. IF THEY DO EXIST, CONTRACTOR SHALL FOLLOW THE MORE STRINGENT REQUIREMENTS.

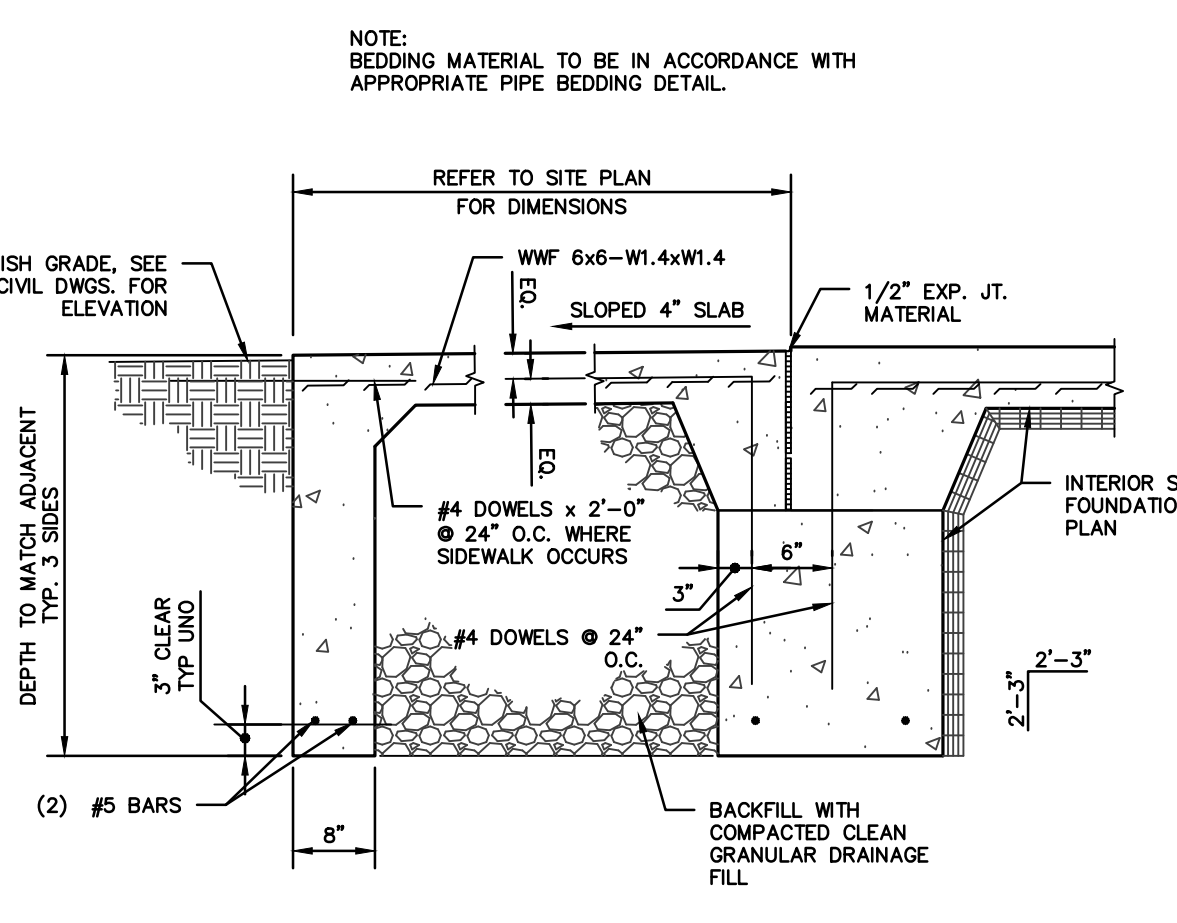
MIN CROSSOVER & SEPARATION REQUIREMENTS FOR WATER & SANITARY/STORM SEWERS
NOT TO SCALE (REV. 01/17)



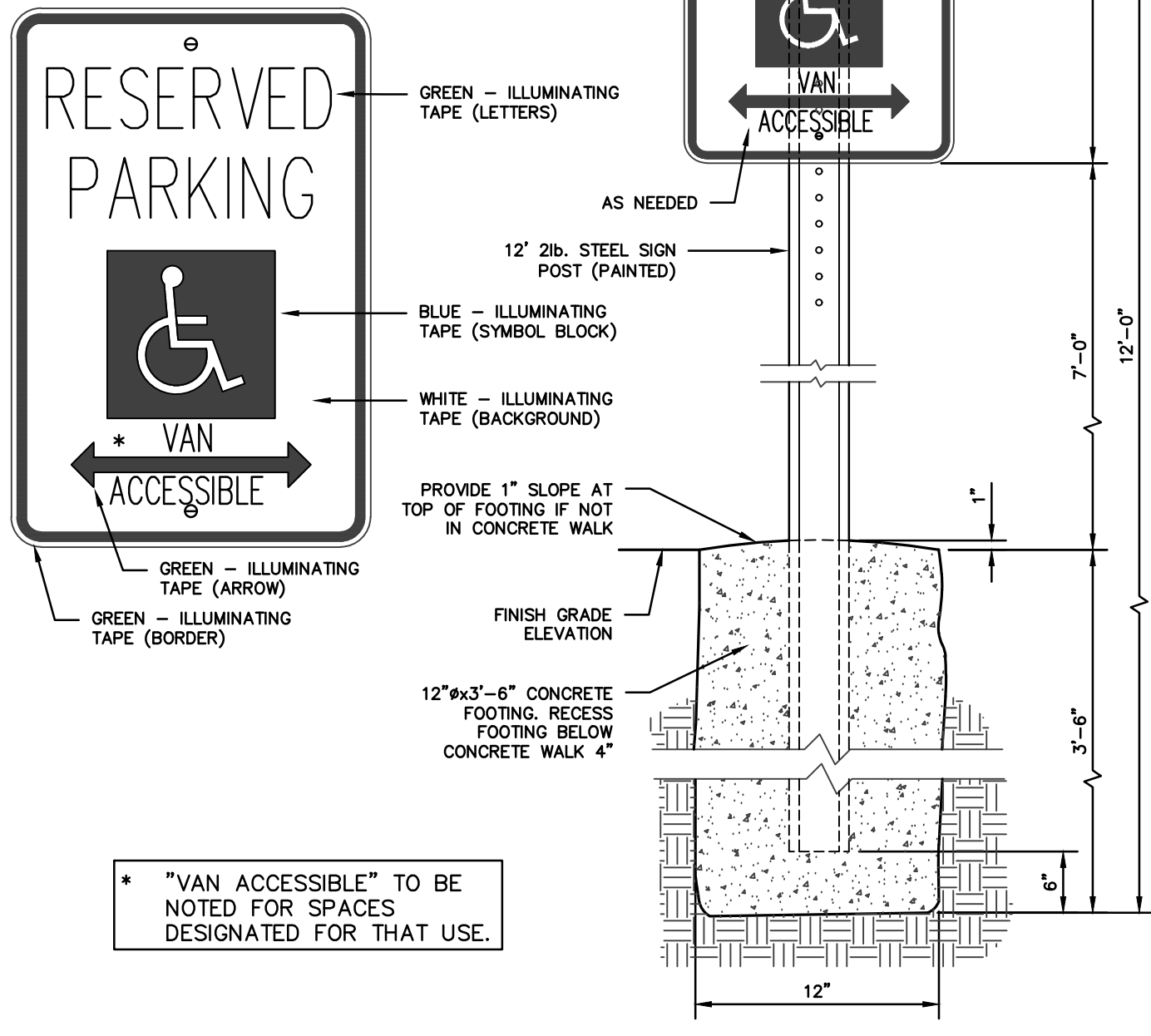
DOWNSPOUT BOOT CONNECTION
NOT TO SCALE



STORM SEWER CLEANOUT DETAIL
NOT TO SCALE (REV. 01/17)



CONCRETE STOOP DETAIL
NOT TO SCALE (REV. 12/17)



ADA ACCESSIBLE PARKING SIGN DETAIL
NOT TO SCALE (REV. 01/17)



CAUTION DEEP WATER SIGN
NOT TO SCALE



DROP-OFF SIGN
NOT TO SCALE



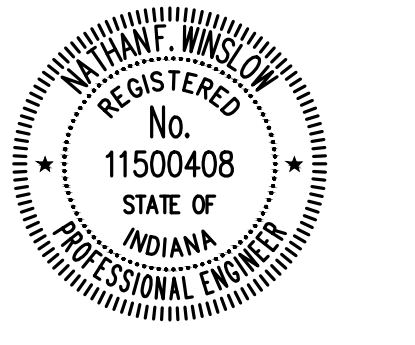
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www.structurepoint.com

PORTER COUNTY NORTH ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



Nathan Winslow
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ISSUANCE INDEX		
DATE:	08/17/2018	
PROJECT PHASE:	CONSTRUCTION DOCUMENTS	

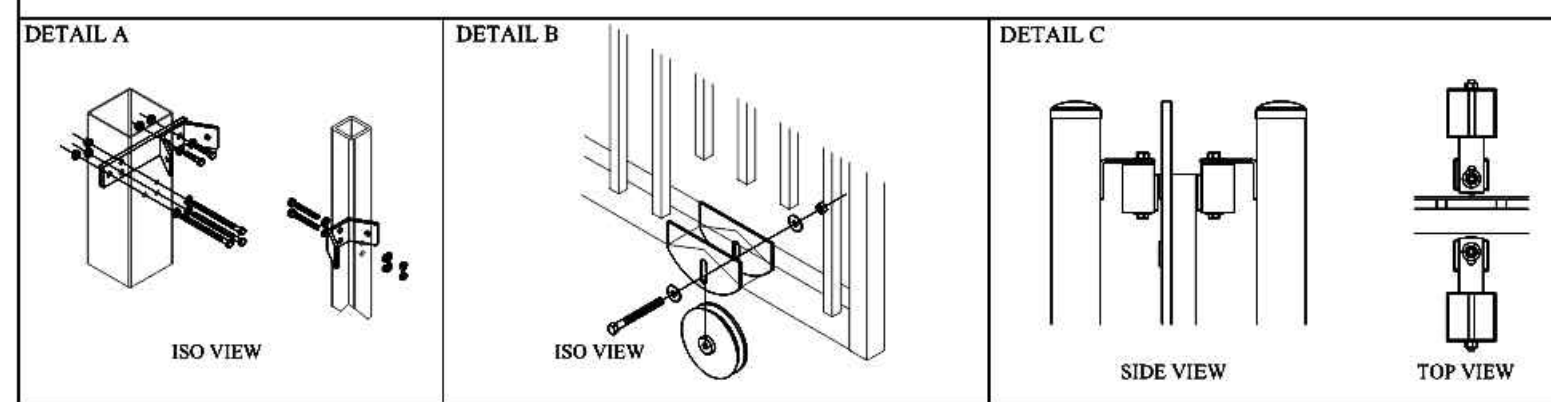
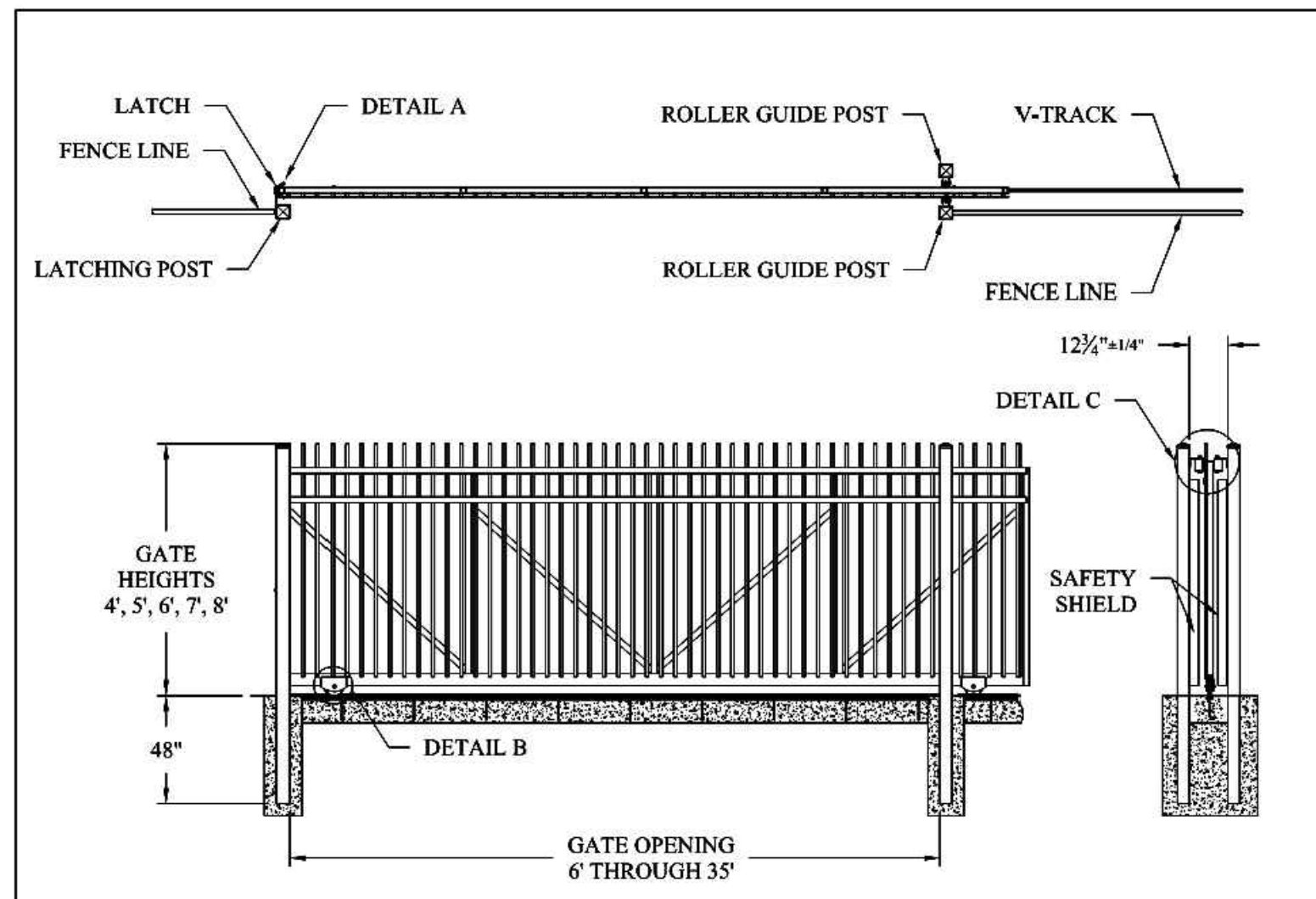
REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

SITE DETAILS

C601

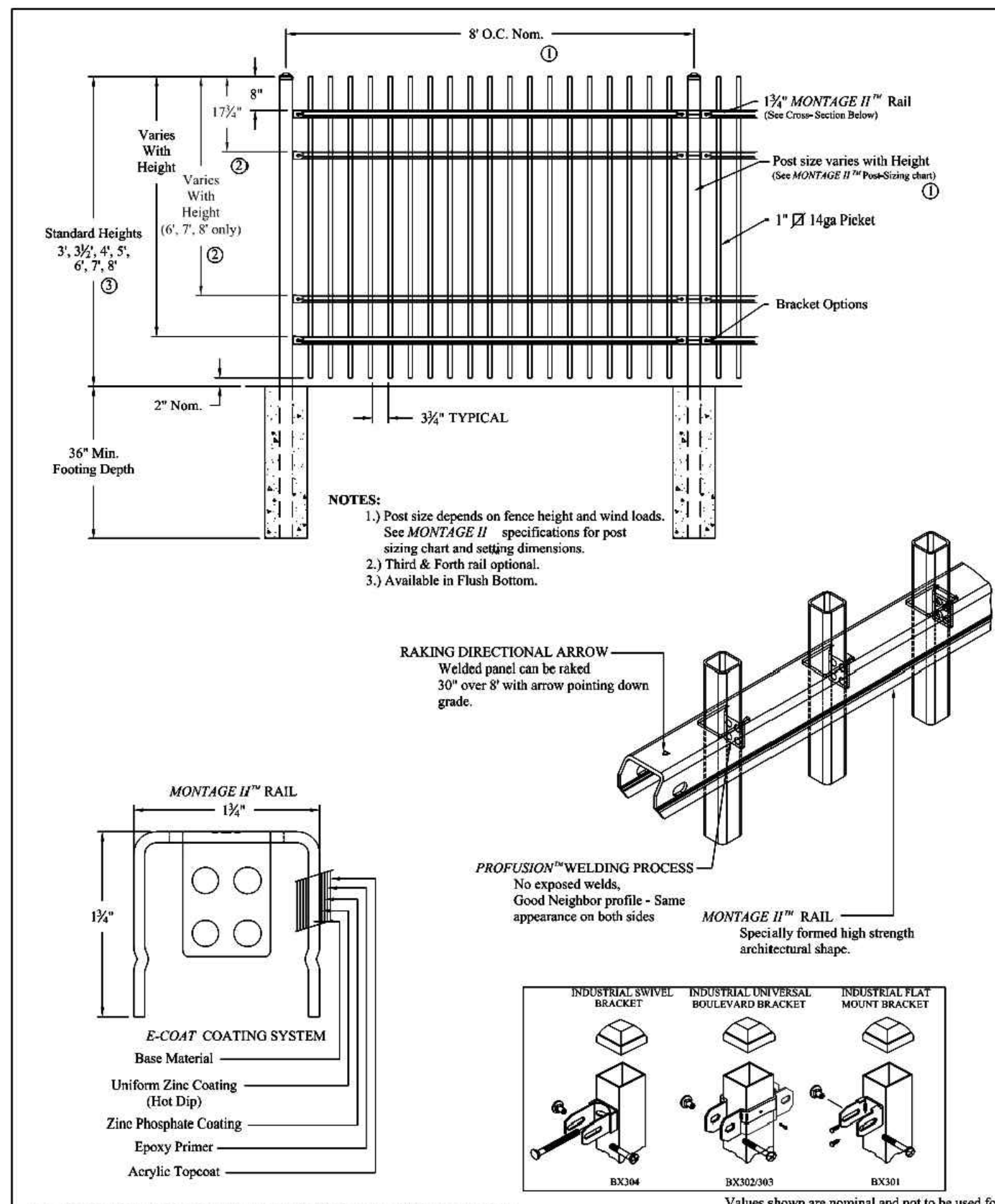
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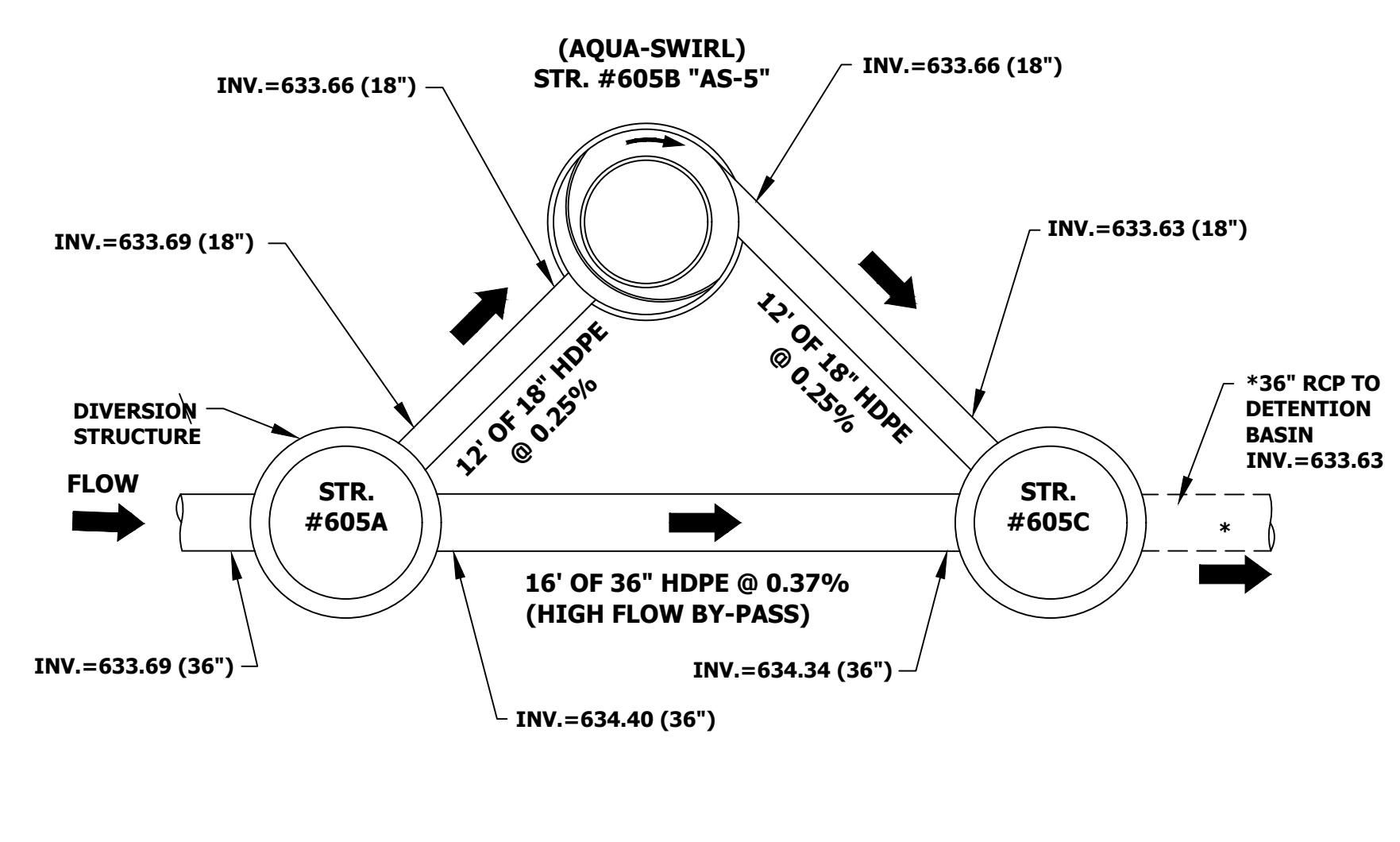
PassPort II® Industrial Ornamental Roll Gate

Ornamental Pickets: 1" Square
 Top Rail(s), Uprights and Diagonals Braces: 2" Square x 11 Ga.
 Bottom Rail: 2" x 4" x 11 Ga. (Notched & Plated for V-track Wheels)
 Roll Gate Hardware: Kit #PGKOD
 Available in Profiles of 2-Rail, 3-Rail & 3-Rail w/Rings

PASSPORT II GENESIS INDUSTRIAL ROLL GATE		AMERISTAR®		1555 N. Mingo Tulsa, OK 74116 1-888-333-3422 www.ameristarfence.com
DWN: NJB	SH: 1 of 1	SCALE: DO NOT SCALE	REV: C	
8413-02	Date: 06/17/13			



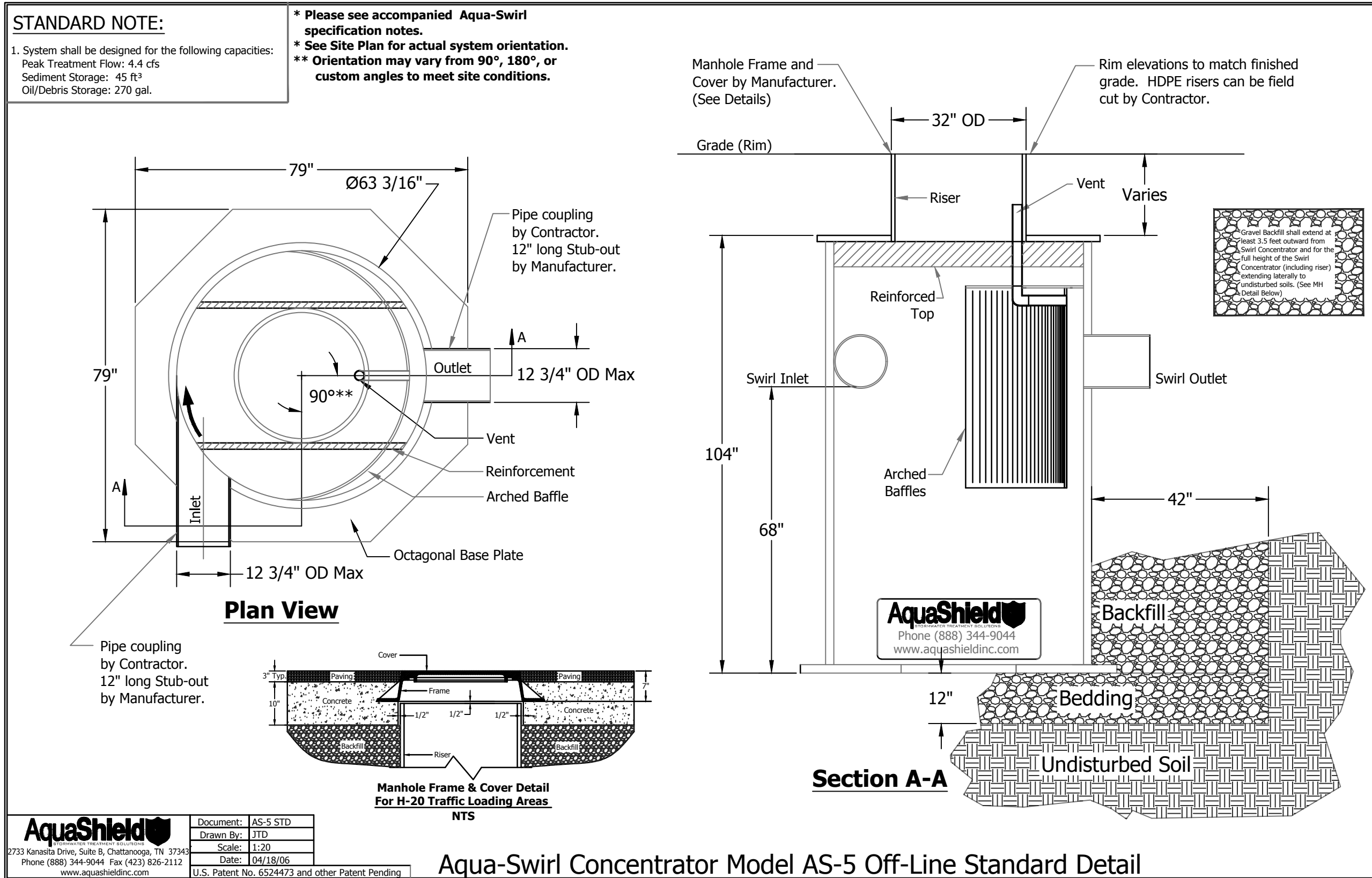
HEAVY INDUSTRIAL STRENGTH WELDED STEEL PANEL		AMERISTAR®		1555 N. Mingo Tulsa, OK 74116 1-888-333-3422 www.ameristarfence.com
DR: RTM	SH: 1 of 1	SCALE: DO NOT SCALE	REV: b	
CK: ME	Date: 6/25/10			



OFF-LINE AQUA-SWIRL AS-5 PLAN #605B
NOT TO SCALE

AQUA-SWIRL™ PCS SPECIFICATION NOTES
Indianapolis, Indiana

- Manufacturer shall be responsible for complete assembly of Swirl Concentrator.
- Polymer Coated Steel (PCS) Swirl Concentrator shall be fabricated from polymer pre-coated steel sheet for corrugated steel pipe, and shall comply with ASTM A 760 and ASTM A 742.
- Stubs and internal components shall be supplied by manufacturer and MIG welded using accepted welding practices.
- Manufacturer shall supply direct access to Swirl Concentrator via 30-inch ID riser(s). Riser should not be field cut by Contractor. Riser should maintain its finish cut length as supplied by manufacturer to match final grade per approved site elevations (as indicated on approved shop drawing). If necessary to extend riser, Contractor should use adjusting rings to bring top of structure to grade.
- Contractor shall supply pipe couplings to and from Swirl Concentrator, which shall be Mar-Mac (www.mar-mac.com), Ferro, or Mission style flexible boot with stainless steel tension bands and shear guard.
- Contractor shall prepare excavation and off-load Swirl Concentrator. Contractor is responsible for bedding and backfill around Swirl Concentrator as detailed on site plan. (see notes 11 and 12)
- Manufacturer shall supply standard manhole frame(s) and cover(s). (Traffic rated H20)
- Where traffic loading (H-20) is required or anticipated, a 4-foot diameter, 4-inch thick reinforced concrete pad must be placed over the Swirl Concentrator to support and level the manhole frame. The top of riser pipe must be wrapped with compressible expansion joint material to a minimum 1-inch thickness to allow transfer of wheel loads from manhole cover to concrete slab. Manhole cover shall bear on concrete slab and not on riser pipe. The concrete slab shall have a minimum strength of 3,000 psi and be reinforced with #4 reinforcing steel (per drawing). Minimum cover over reinforcing steel shall be 1-inch. Top of manhole cover and concrete slab shall be level with finish grade.
- Unless other traffic barriers are present, bollards shall be placed around access risers in non-traffic areas to prevent inadvertent loading by maintenance vehicles. Sample of typical bollard installation detail and recommended locations of bollards around the Swirl Concentrator can be provided upon request.
- Where high groundwater elevations are present or anticipated, Contractor shall supply concrete anti-floatation pad underneath and poured over the octagonal base plate of the swirl (see Anti-Floatation Base Detail) to prevent buoyancy and base plate deflection (details, if necessary, available upon request).
- Excavation and Bedding - The trench and trench bottom shall be constructed in accordance with ASTM A 798 Section 5, Trench Excavation, Section 6, Foundation, and Section 7, Bedding. The PCS Swirl Concentrator shall be installed on a stable base consisting of at least 6-inches of Class 1 stone materials (Class 1 #8 crushed stone, angular, large void content; contains little or no fines) as defined by ASTM D 2321, Section 5, Materials, and compacted to 95% proctor density. Bedding shall not contain stones retained on a 3-inch ring, frozen lumps, highly plastic clay, organic material, corrosive material, or other deleterious foreign materials. All required safety precautions for Swirl Concentrator installation are the responsibility of the Contractor and shall be per OSHA approved methods.
- Backfill Requirements - Backfill materials shall be Class 1 stone materials (Class 1 #8 crushed stone, angular, large void content; contains little or no fines) as defined by ASTM D 2321, Section 5, Materials, and compacted to 90% proctor density. Backfilling shall conform to ASTM A 798, Section 10, Structural Backfill Placement. Backfill shall be placed in 6 to 12 inch layers or "lifts" and compacted before adding the next lift. Backfill shall extend at least 18 inches outward from Swirl Concentrator and for the full height of the Swirl Concentrator (including riser(s)) extending laterally to undisturbed soils.



Aqua-Shield Concentrator Model AS-5 Off-Line Standard Detail

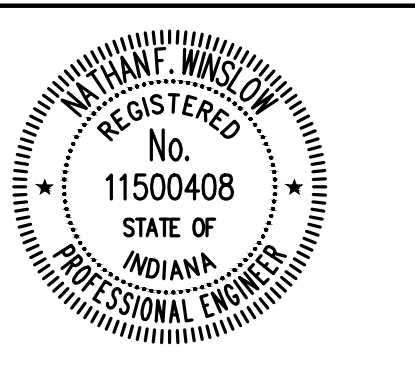


155 Indiana Avenue
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AMERICAN STRUCTUREPOINT INC.
 7260 Shadeland Station | Indianapolis, Indiana 46256
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 www.structurepoint.com

PORTER COUNTY NORTH ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



Nathan Winshaw
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ISSUANCE INDEX	
DATE:	08/17/2018
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

SITE DETAILS

C602



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PORTER COUNTY
NORTH ANNEX

3560 WILLOWCREEK RD
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ISSUANCE INDEX

DATE: 08/17/2018
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REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

CITY OF PORTAGE
STANDARD DETAILS

C610

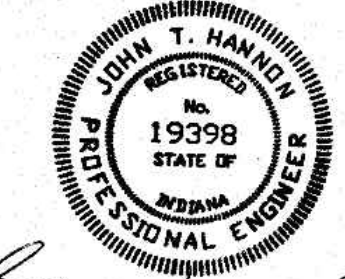
REVISED February 8, 2018

CITY OF PORTAGE, INDIANA
STANDARD DETAILS

DEPARTMENT OF COMMUNITY DEVELOPMENT
6070 CENTRAL AVENUE
PORTAGE, INDIANA 46368
PHONE: 219-762-4204 FAX: 219-764-5749

APPROVED BY THE CITY OF PORTAGE
UTILITY SERVICE BOARD MAY 9, 2001

APPROVED BY THE CITY OF PORTAGE
BOARD OF PUBLIC WORKS AND SAFETY
SEPTEMBER 10, 2001



John T. Harwood
4/26/18

CITY OF PORTAGE STANDARD SPECIFICATIONS

Section 3 Sanitary Sewers

31 General

1. The design and installation of sanitary sewer systems shall be in accordance with the recommended Standards for Wastewater Facilities (2016 Edition) Indiana Department of Environmental Management construction permit and the Portage Water Reclamation Department Standard Details.

32 Materials

1. Gravity Sewers
a. Gravity sewers 12" diameter or less shall be rigid bell and spigot, SDR 35 PVC manufactured in accordance with ASTM 2466, Standard Specifications for PVC Sewer Pipe Fittings. Gravity sewers greater than 12" diameter shall be manufactured in accordance with ASTM F477-95, 12".
b. Force mains shall be ductile iron, Pressure Class 250 or greater and manufactured in accordance with ANSI/AWWA C151 Ductile Iron Pipe, Centrifugally Cast, For Water and Other Liquids.
c. Manholes
1. Manholes shall be constructed of pre-cast concrete sections in accordance with ASTM Standard Specification for Precast Reinforced Concrete Manhole Sections.
2. Manholes shall have a minimum diameter of 48-inches.

33 Installation

1. Gravity Sewers
a. Gravity sewers shall have a minimum cover of at least 48-inches measured from the top of the pipe to the proposed finish grade.
b. Gravity sewers shall be designed and constructed, when flowing full, with slopes that result in average flow velocities of not less than two (2) feet per second. Oversized sewers shall not be approved to justify using decreased slopes.
c. Anchors shall be placed where necessary to protect against damage from impact and erosion.
d. Continuous and uniform bedding shall be provided in the trench along the entire length of the pipe. Pipe shall not be installed deeper than one (1) foot below the static water level. Bedding shall be required for soils with higher static water levels. Bedding and back fill shall be per the attached detail.
e. Force mains
1. Force mains shall be installed in accordance with AWWA standard C600 Installation of Ductile Iron Water Mains and Their Appurtenances.
2. All relief valves or other air relief devices shall be installed at every intermediate pipe point where air may accumulate in the force main.
3. Manholes
a. Manholes shall be installed in accordance with AWWA standard C600 Installation of Ductile Iron Water Mains and Their Appurtenances.
b. Manholes shall be placed in the street.
c. Manholes shall be placed at all end points of sanitary sewers, changes in pipe sizes and changes in elevations.
d. A stop pipe shall be provided for a sewer entering a manhole at an elevation of 24-inches or more above the manhole invert.
e. Service laterals
1. Service laterals shall be at least 6-inches in diameter.
2. Clean-outs shall be placed at the house foundation and at intervals not exceeding 100 feet.
3. Tracer wires shall be attached to the service.
4. Connections to an existing sanitary sewer manhole shall be core-drilled. The connection shall be made using a water-tight flexible connection.

34 Deflection and Leakage Testing

1. Gravity Sewers
a. Gravity deflection tests shall be performed on each flexible pipe following the slope of thirty (30) days after the placement of the final back fill of five percent (5%) or greater.
b. The diameter of the rigid bell or manhole used for a deflection test shall be no less than 95% of the inside diameter of the pipe to be tested. The test shall not be performed with the aid of a mechanical pulling device.
c. All gravity sewers shall be tested using either a hydrostatic test or low pressure air test.
1. Hydrostatic tests shall be performed with a minimum of two (2) feet of positive head. The rate of infiltration shall not exceed 500 gallons per inch of pipe diameter per linear foot per day.
2. Air tests shall conform to ASTM F1417, Standard Test Method for Installation Acceptance of Plastic Gravity Sewer Lines Using Low Pressure Air.
d. Force Mains
1. Force mains shall be pressure and leak tested in accordance with AWWA standard C600, AWWA Standard for Installation of Ductile Iron Water Mains and Their Appurtenances.
2. Manholes
a. Manholes shall be air tested in accordance with ASTM C1244, Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test.
b. A designated Portage Utility Service Department employee shall witness all leakage and deflection tests. All test results shall be recorded on test reports and test reports shall be submitted to the Utility Service Department's Field Division for review and approval.

35 Separation of Sanitary Sewers from Water Mains

1. Sanitary sewers shall not be located within ten (10) feet of any existing or proposed water main, when measured horizontally from the outside edge of the sanitary sewer to the outside edge of any existing or proposed water main.
2. If the sanitary sewers and water mains must cross, the sanitary sewers and water mains must be separated by a minimum of 18-inches as measured vertically from the outside edge of the sanitary sewer to the outside edge of the water main for a distance of at least ten (10) feet.
3. No manhole shall be placed within eight (8) feet of a water main as measured from the outside edge of the manhole to the outside edge of the water main.

Section 4 Storm Sewers

41 General

1. Drainage systems shall be designed to conform to the guidelines set forth in Stormwater Technical Guide.

42 Materials

1. Storm sewer pipe placed within the influence of the road 45° angle from the back of curb.
2. Alternate storm sewer pipe when not placed under pavement or curb.
3. Storm sewer pipe shall be manufactured in accordance with ASTM C776.
4. High Density Polyethylene (HDPE) manufactured in accordance with AASHTO M294 type S with an electrical resistance in accordance with ASTM F477.
5. Other materials approved by the City Engineer.
6. Manholes shall be constructed of pre-cast concrete sections in accordance with ASTM C478, Standard Specification for Precast Reinforced Concrete Manhole Sections.

43 Installation

1. Continuous and uniform bedding shall be provided in the trench along the entire length of the pipe. Pipe shall not be installed deeper than one (1) foot below the static water level. Bedding shall be required for soils with higher static water levels. Hand dig bell holes.
2. The pipe shall be installed per the attached detail.
3. The minimum diameter of storm sewers shall be 18-inches.
4. Storm sewers shall be designed and constructed, when flowing full, with slopes that result in average flow velocities of not less than two (2) feet per second.

44 Lot Drainage

1. Lots shall be sloped as to drain surface water away from the house and into common sewers and to the street.
2. Lots shall be graded to comply with IRC R401.3 - grade away from the foundation walls shall fall a minimum of 4-inches within the first 5-feet.
3. Developer shall install rear yard drains and final grade, vegetation and protect the rear yard drainage elements prior to the final acceptance of the infrastructure by the City of Portage Board of Public Works and Safety.

45 Erosion Control

1. Erosion control measures shall conform to the Indiana Handbook for Erosion Control in Developing Areas and "Rule 2" of the Indiana Department of Environmental Management.
2. Land alterations, including grading, which disturb the land of vegetation, shall be accomplished in a manner that minimizes erosion or the addition of sediments to natural and manmade drainage ways. This will reduce the impact on adjacent properties and water quality of receiving water. Wherever feasible, natural vegetation shall be retained, protected and supplemented.
3. Sediment controls should be installed wherever runoff from disturbed portions of the parcel will leave the parcel. Sediment controls may include vegetative buffer strips, filter barriers, sediment basins, silt fences, or other approved erosion control measures.
4. Any flow from a disturbed parcel should pass through a filter barrier or sediment basin before entering a storm drain inlet.
5. Erosion control infrastructure are to be installed prior to the beginning construction. Access to the project is restricted to the drive.

Section 5 Roadways

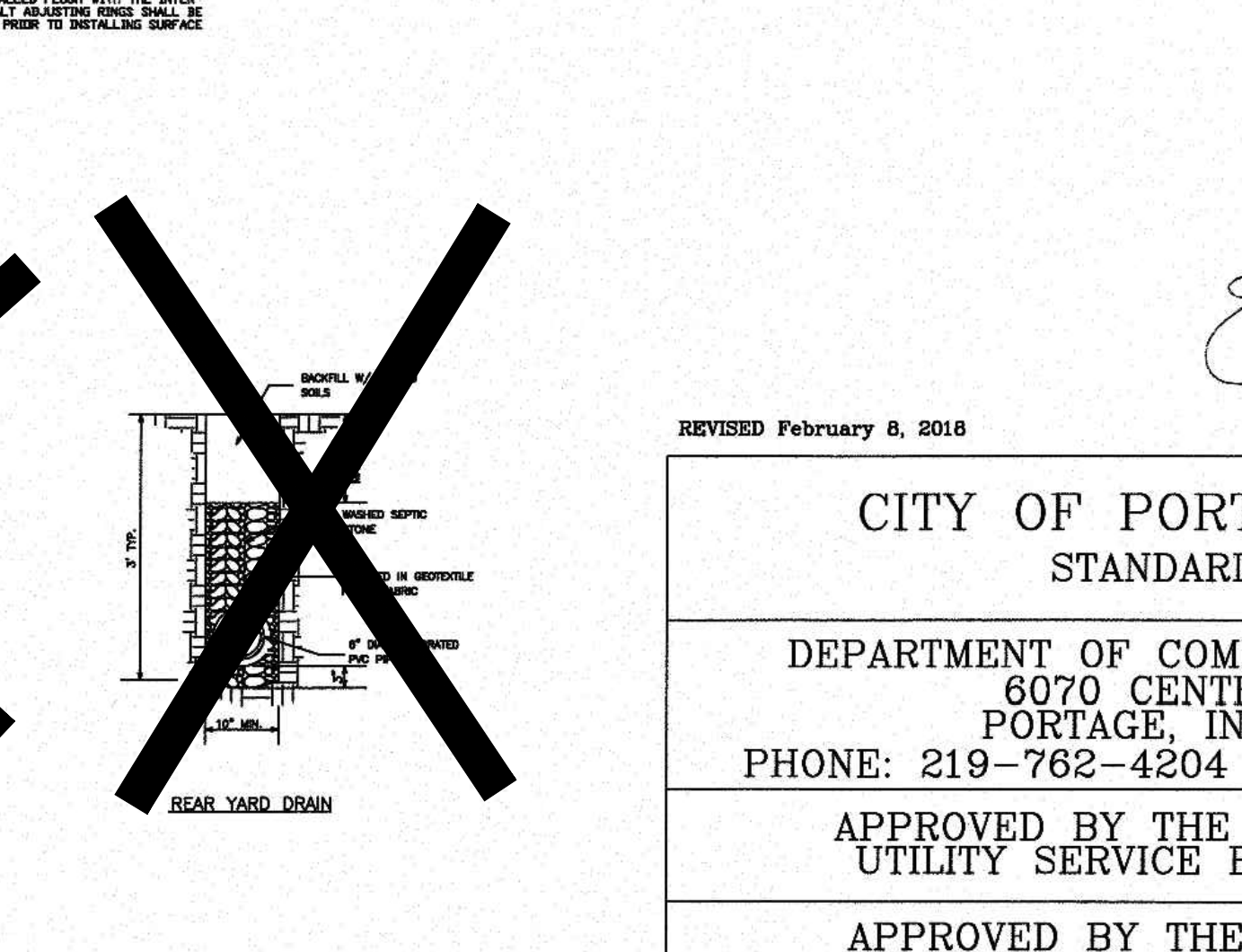
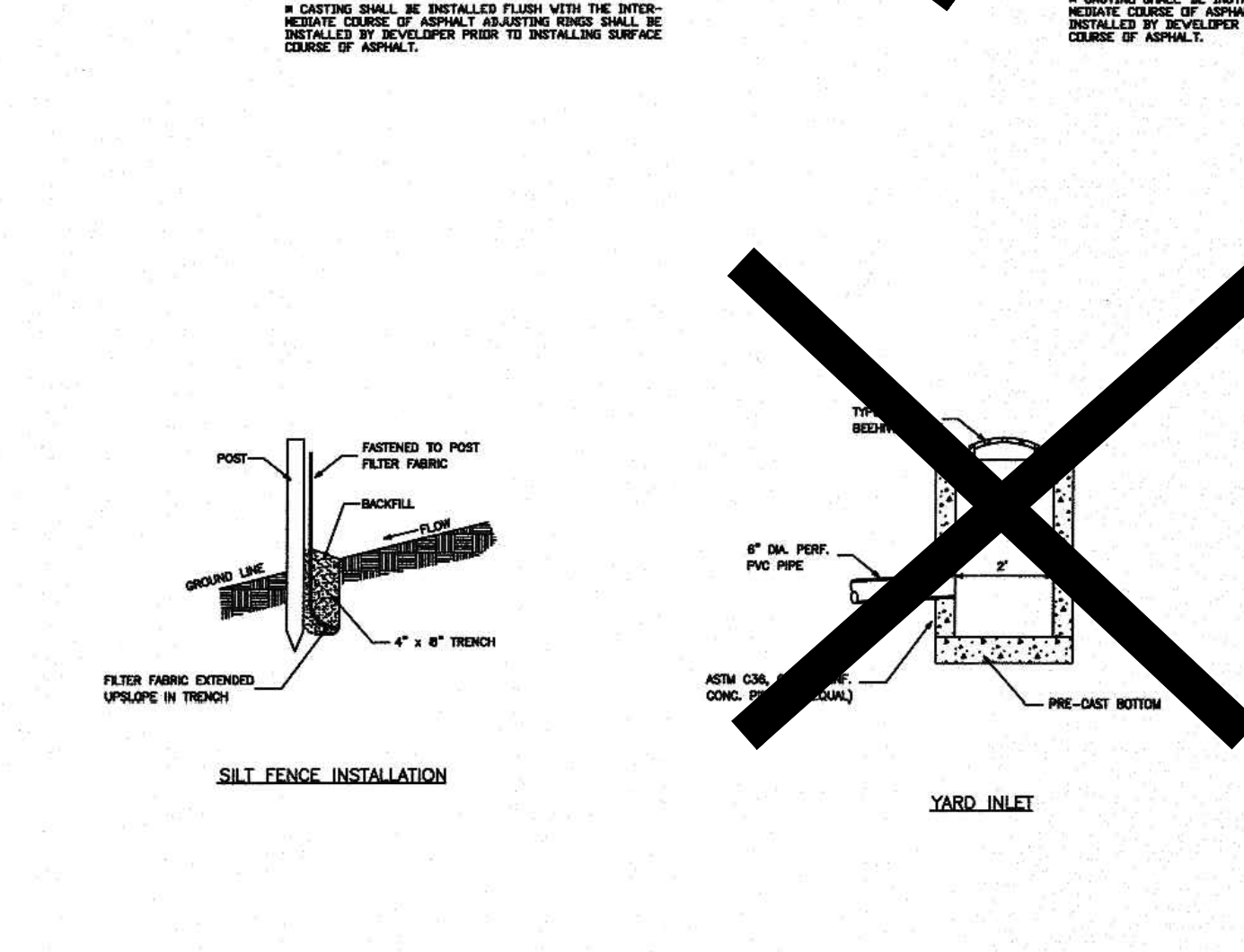
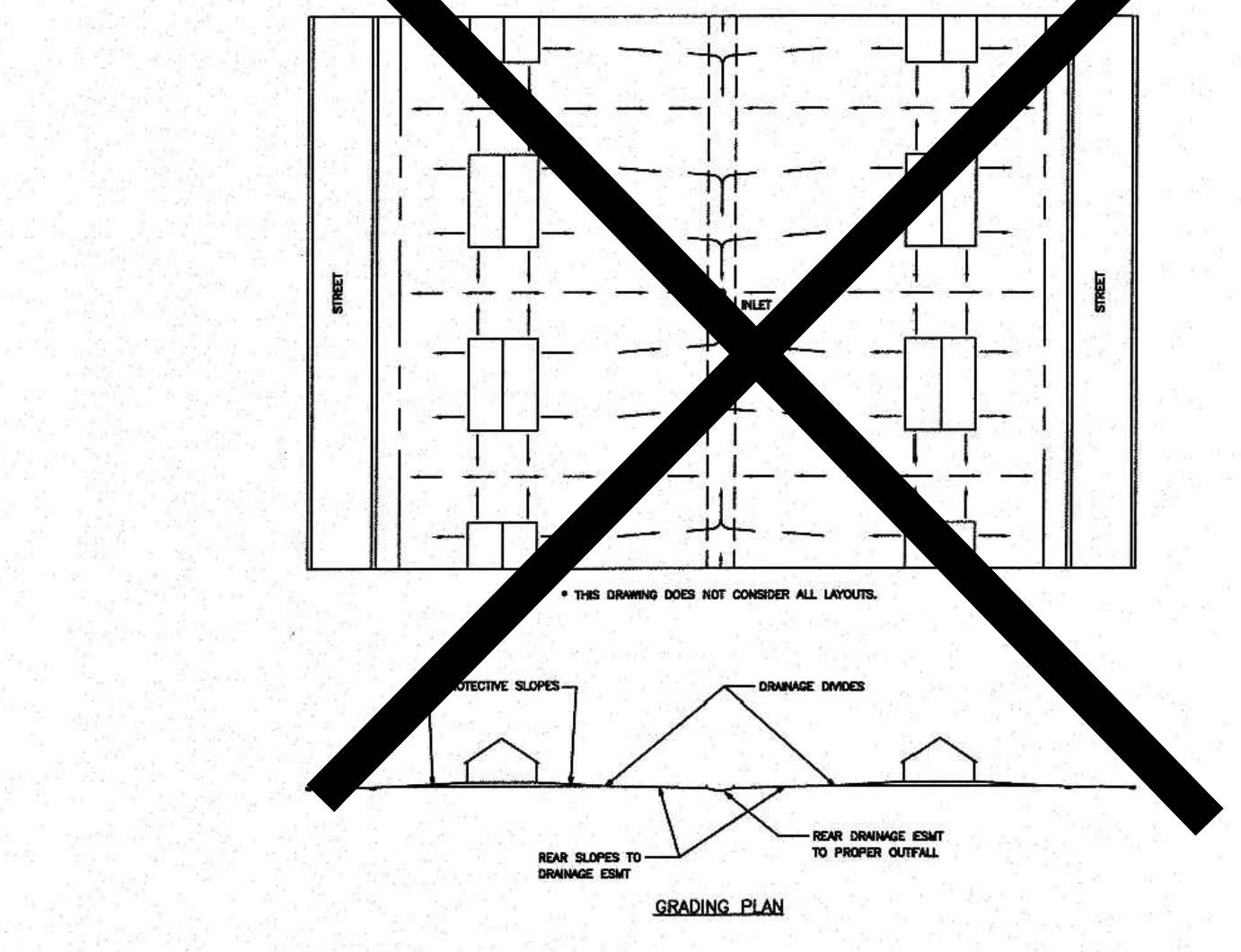
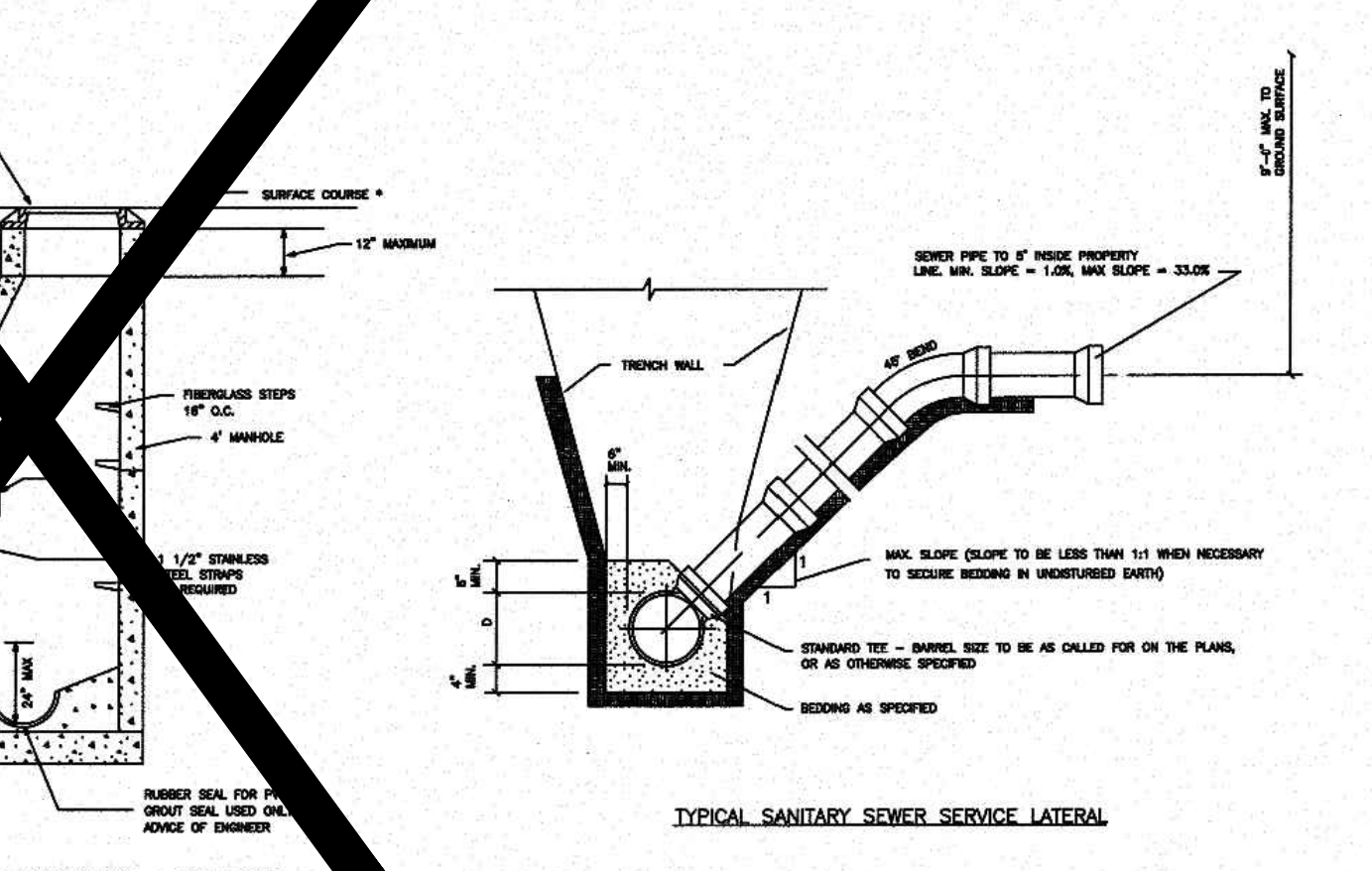
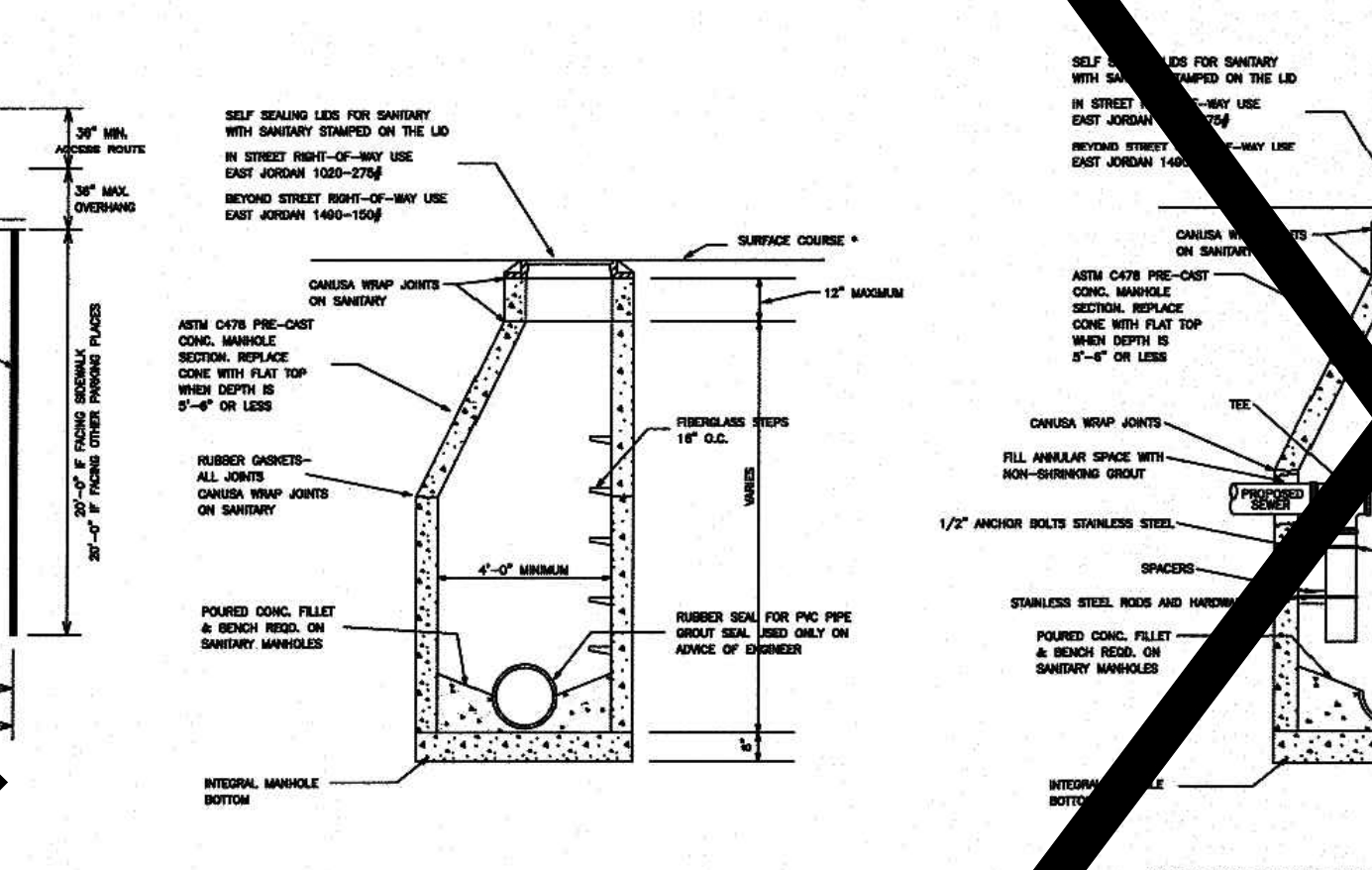
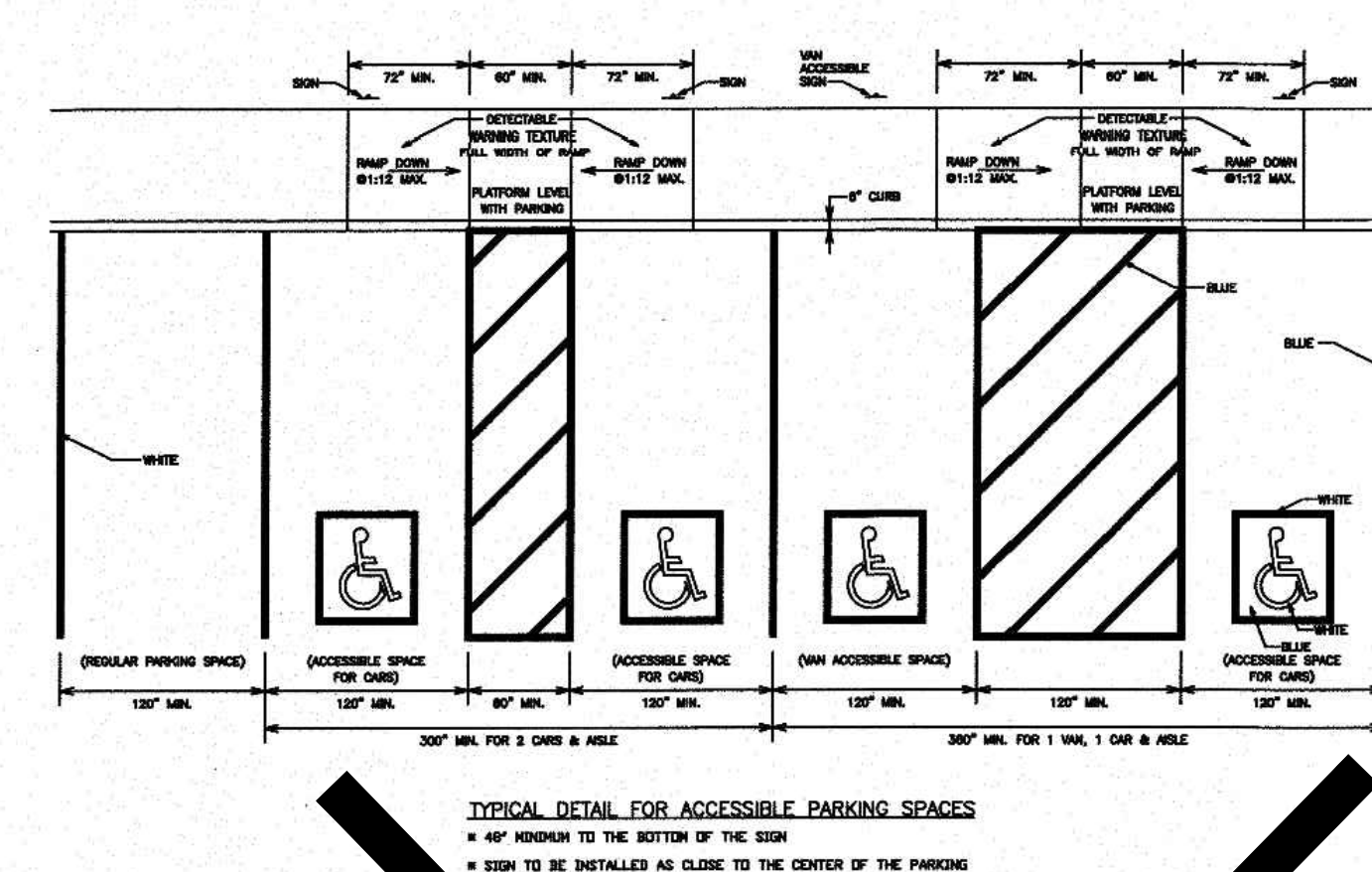
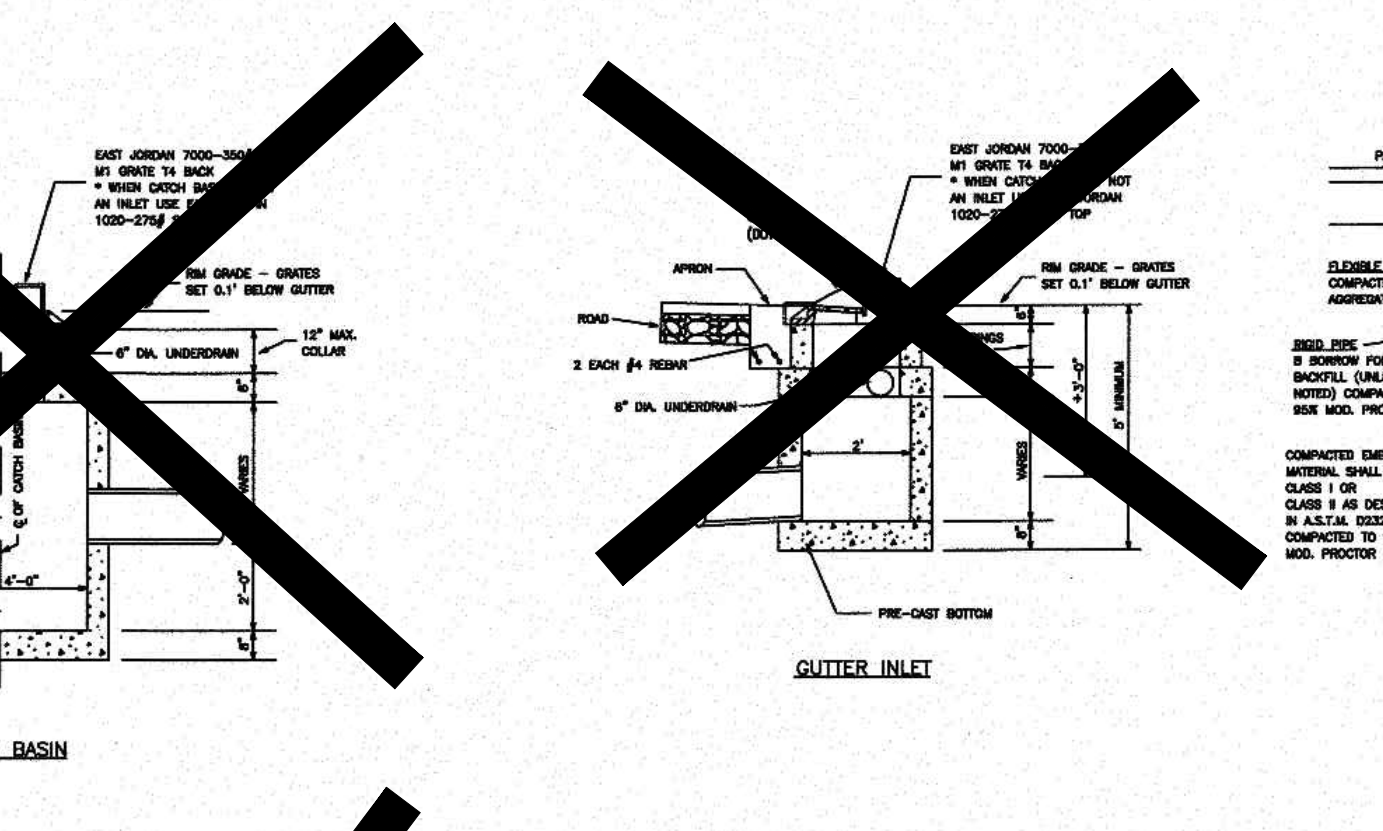
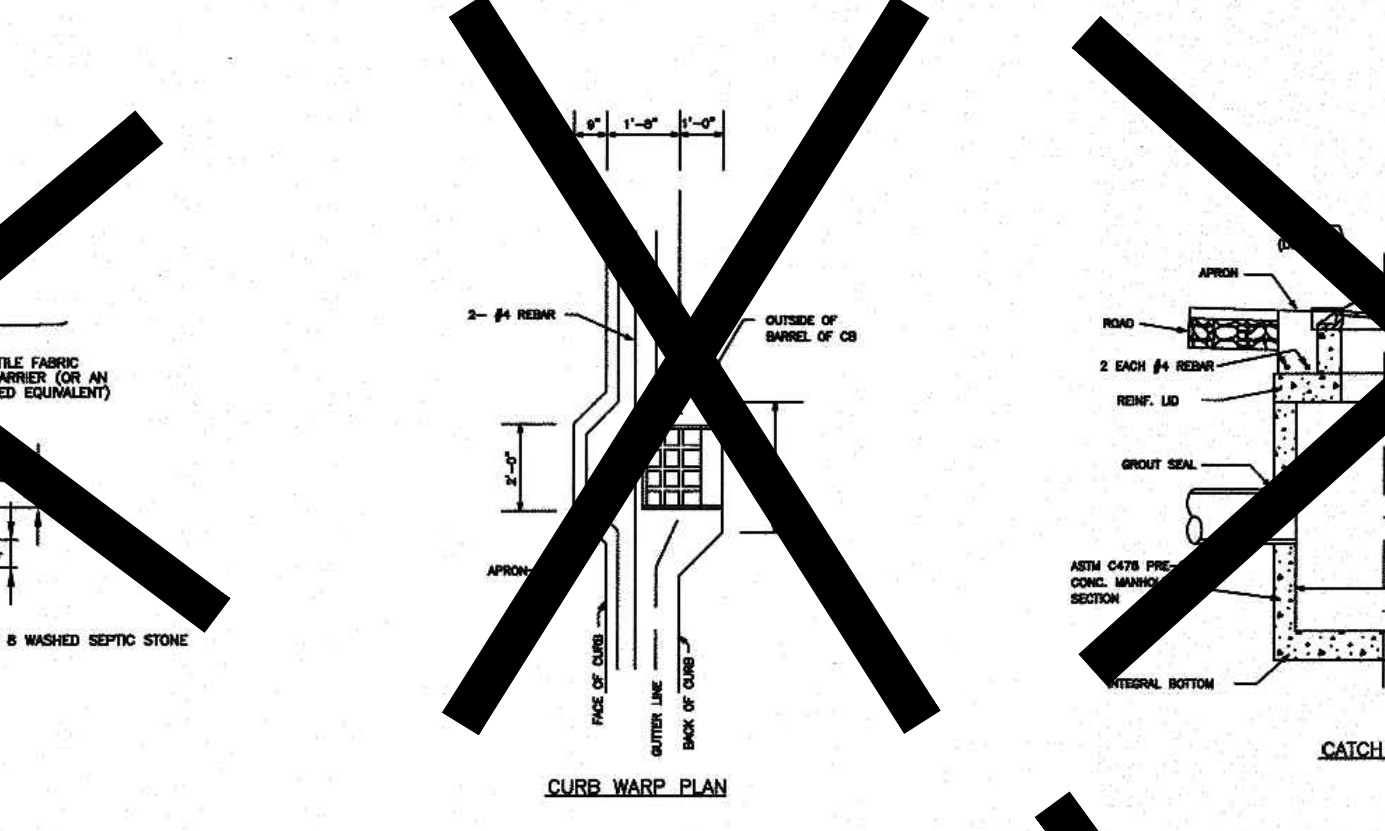
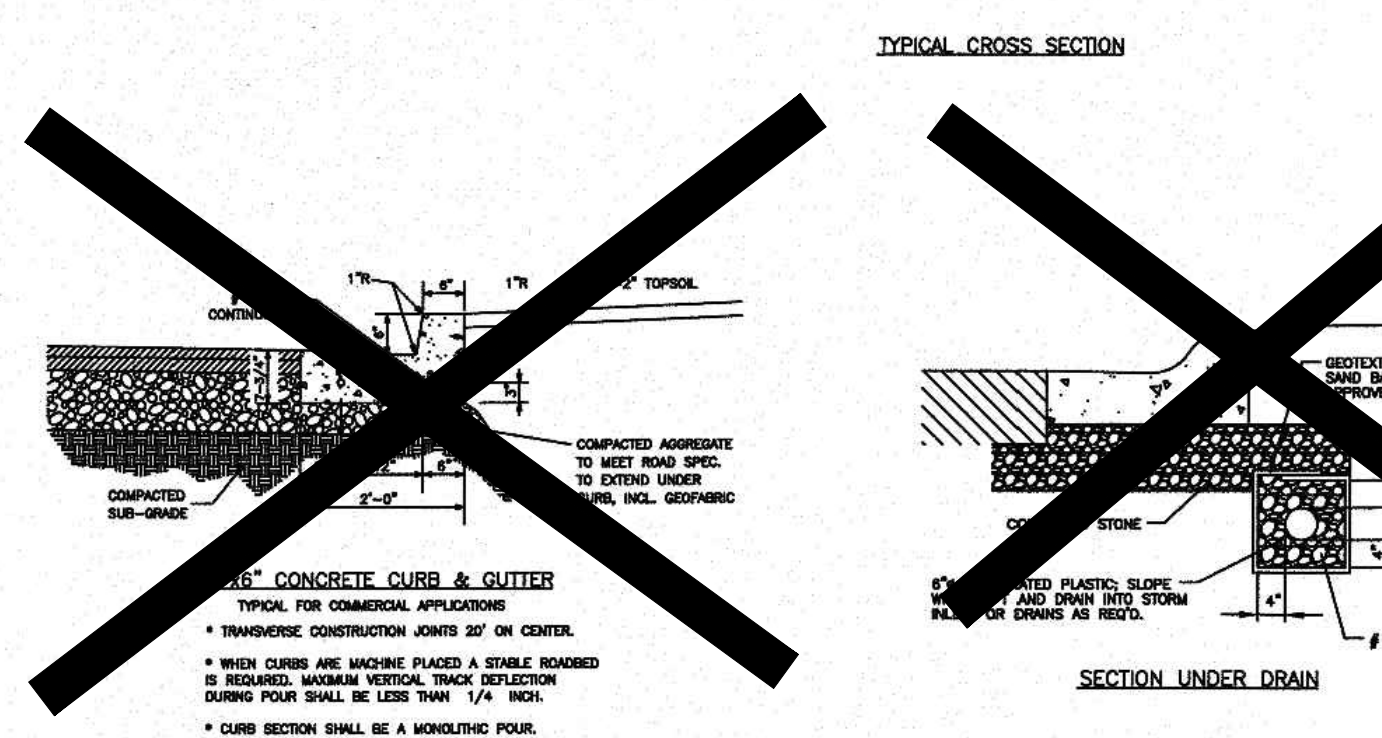
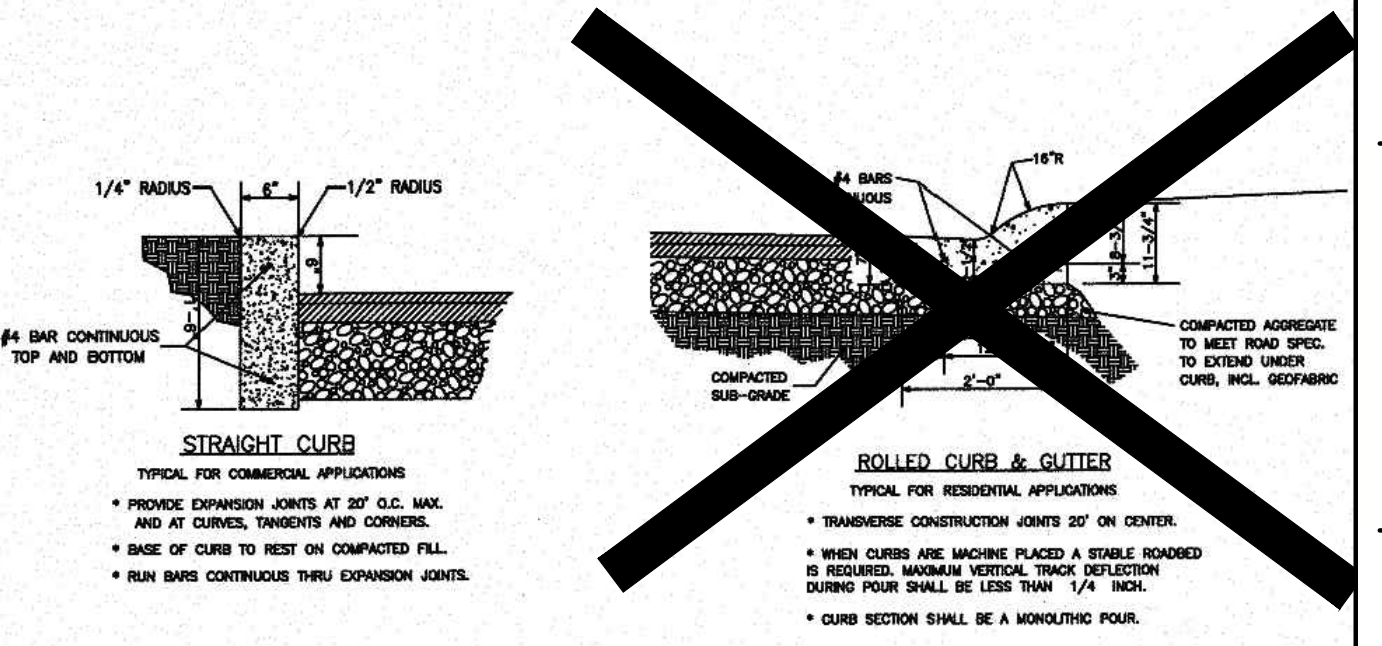
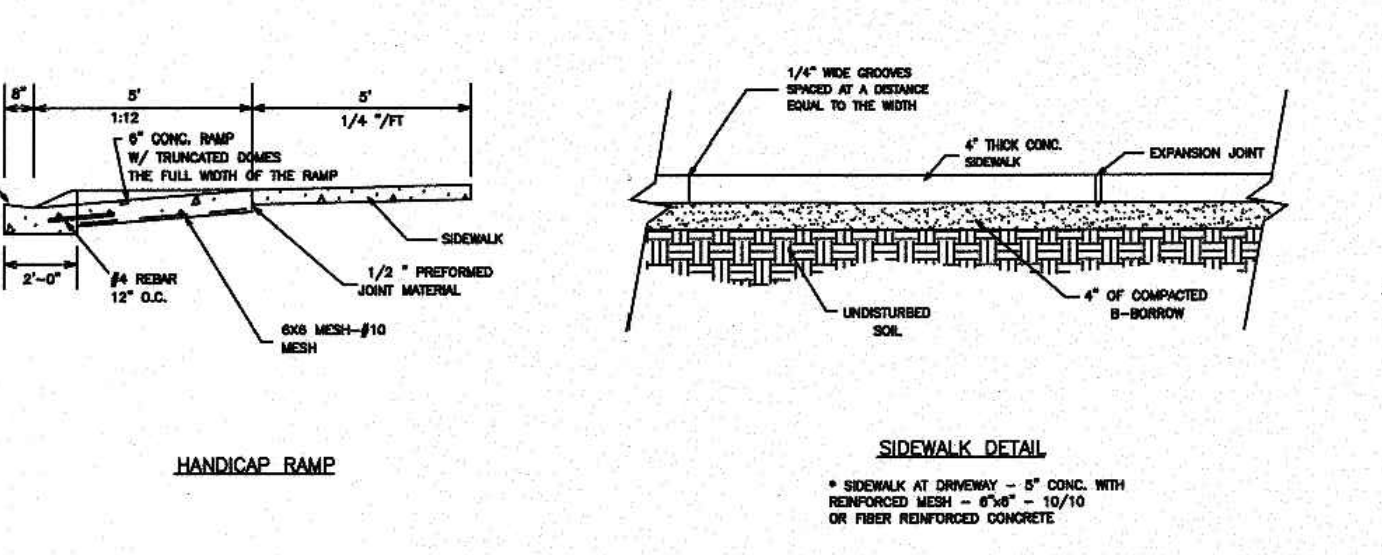
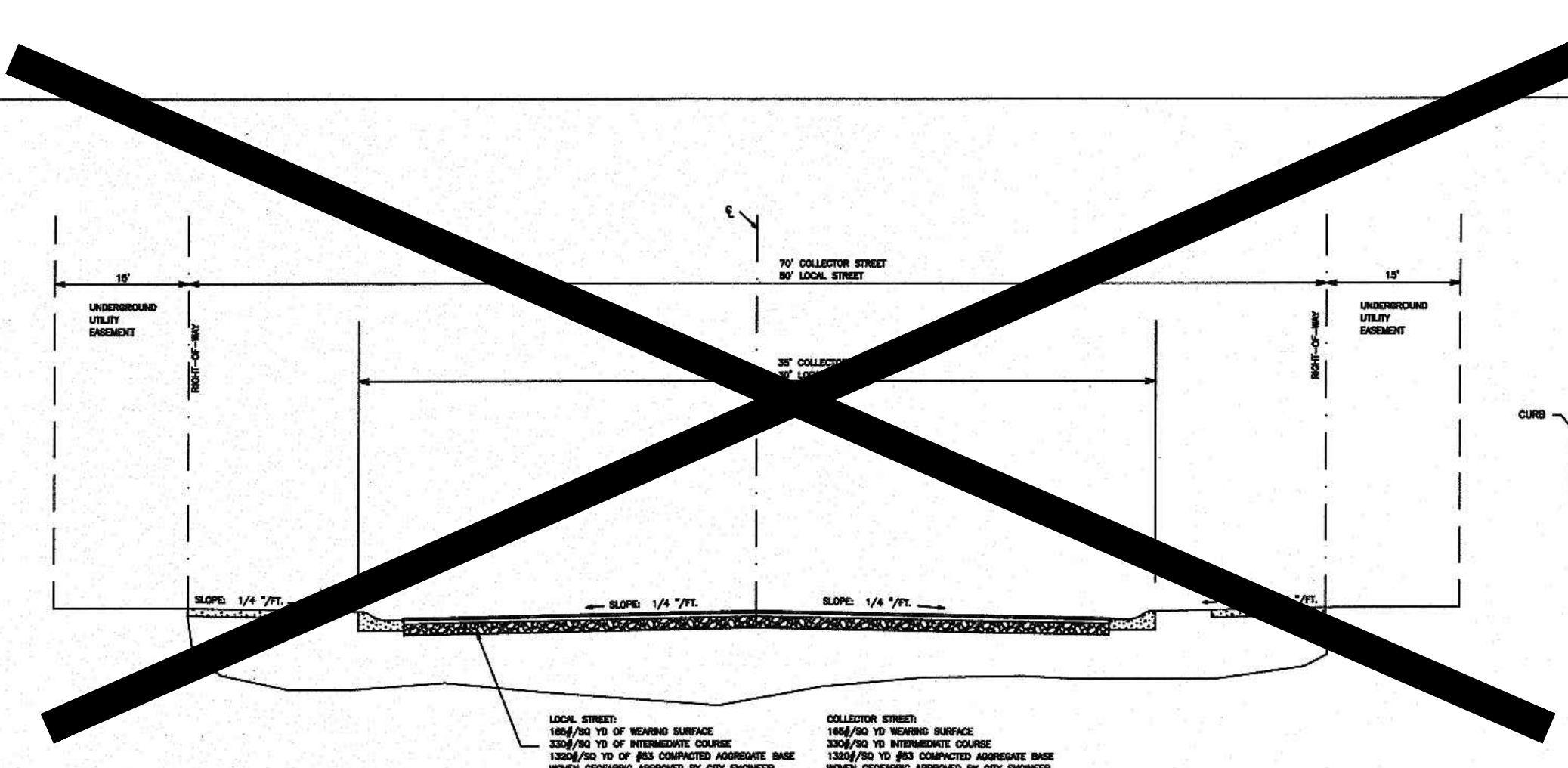
51 General

1. All asphalt materials shall be manufactured in an INEDT approved plant. All materials and construction shall comply with the latest edition of the INEDT Standard Specifications.
2. Developers are directed to the City of Portage Municipal Code for roadway design criteria.
3. Subgrade
a. The pavement subgrade shall consist of undisturbed in-situ soils which are adequately drained, contain no sort of yielding soils, have not been distorted by the movement of heavy equipment and contain no improperly filled holes or trenches.
b. The subgrade shall be compacted to 95% dry density and shall be roll tested using a fully loaded triaxial or semi-trailer. The City Engineer shall approve the subgrade prior to the installation of the subbase.
c. Subbase
1. Shall be 100 compacted aggregate.
2. Subbase being installed on irregular subgrade shall be placed on a geofabric material approved by the City Engineer.
3. The subbase shall be roll tested using a fully loaded triaxial or semi-trailer. The City Engineer shall approve the subgrade prior to the installation of the subbase.
4. In lieu of placing the standard pavement section, soil tests may be taken by an approved Geotechnical Engineer and pavement structure may be designed specifically for this location. The Geotechnical Engineer shall certify the pavement design and certify that it was installed in accordance with the approval by the City of Portage Board of Public Works and Safety.
5. Asphalt Pavements
a. Shall be of the thickness specified in the Standard Details.
b. Shall not be placed on frozen subbase.
c. Asphalt binder shall not be placed when the temperature is expected to be below 32 degrees.
d. Asphalt surface shall not be placed when the temperature is expected to be below 45 degrees.
e. Tack coat shall be placed if the binder course has been driven on.
6. Binder Course
a. Binder course shall be placed level with the rim of the casting. Prior to placement of surface course an adjusting ring shall be placed to raise structure to final grade.

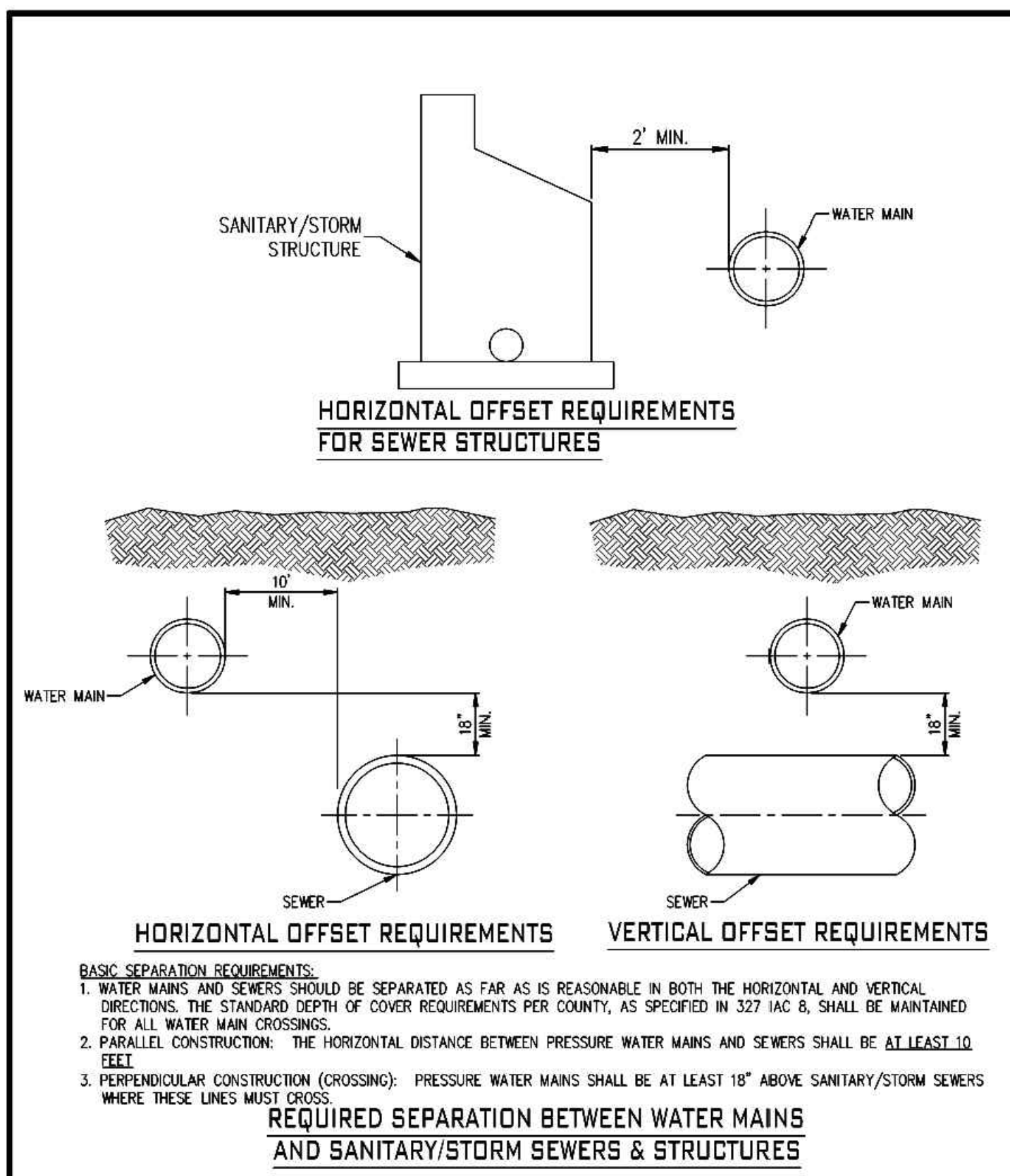
Section 4 Governing Specifications

41 General

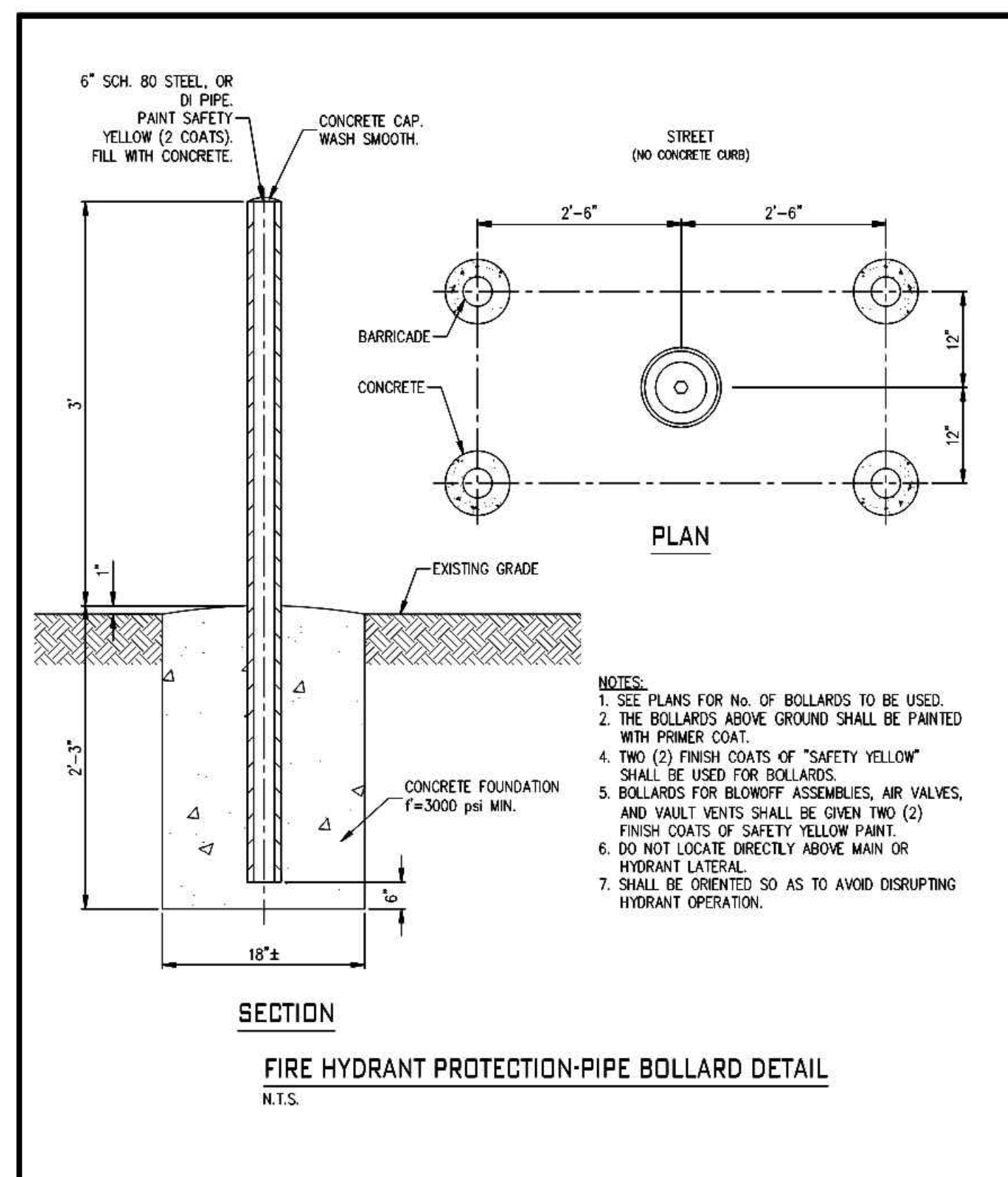
Unless otherwise provided by specifications of a specific project, the latest revision of the following documents shall be used unless otherwise specified for use in all improvements:
a. Indiana Department of Transportation Standard Specifications
b. City of Portage Municipal Code
c. City of Portage Ordinance 92-3 - Drainage Ordinance
d. Great Lakes - Upper Midwest Regional Sewer Board of State and Provincial Health and Environmental Managers
e. 307 IAC - Article 3. Wastewater Treatment Facilities Issuance of Permits Construction and Permit Requirements
f. American Water Works Association
g. American Society of Testing and Materials
h. Indiana Handbook for Erosion Control in Developed Areas
i. ADAAG - Americans with Disabilities Act (ADA) Accessibility Guidelines
j. PDMA - Public Rights-of-Way Accessibility Guidelines



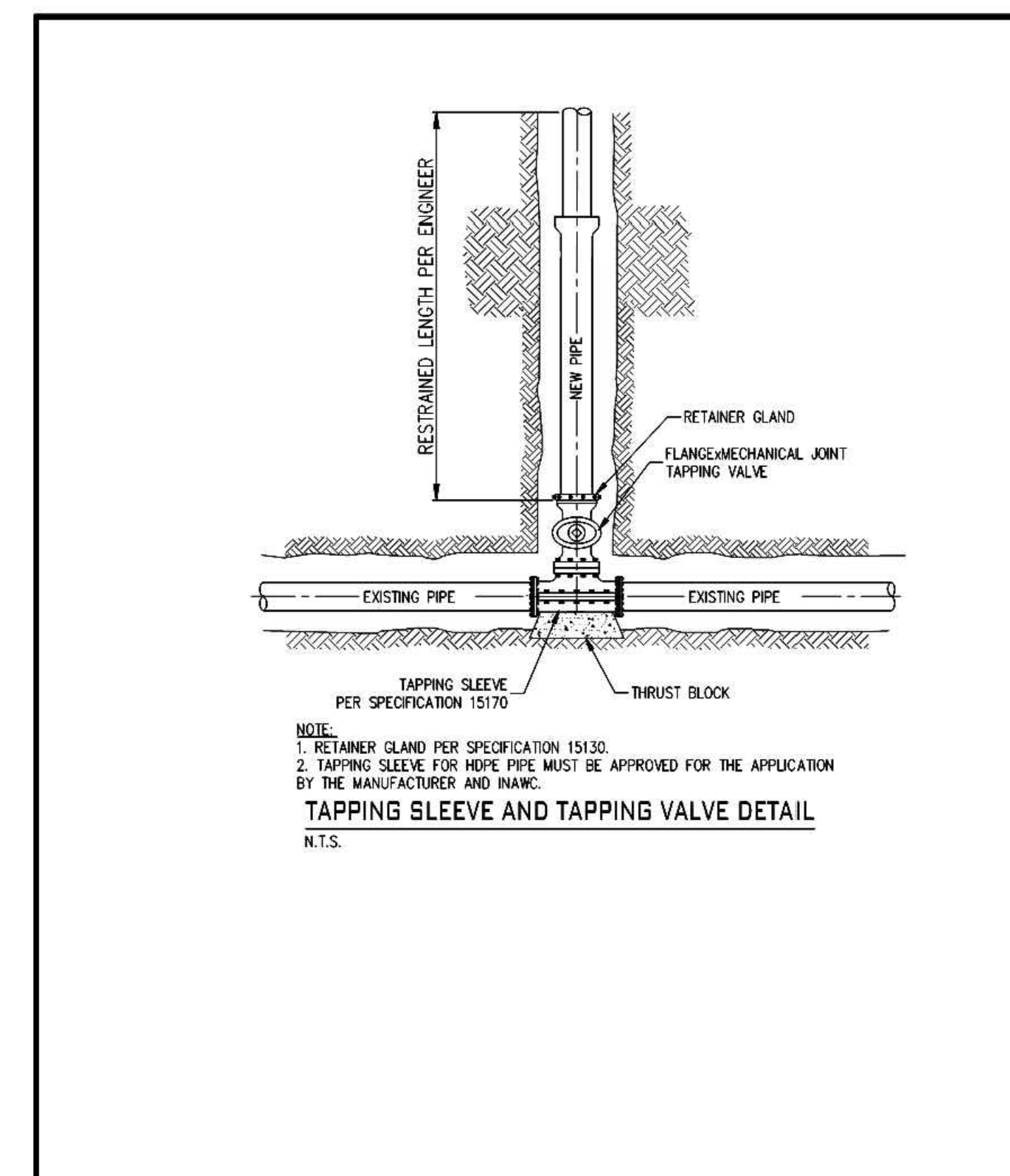
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PLOT DATE: 8/27/2018 9:20 AM
PLOT SCALE: 1:2.5848



	STANDARD DETAIL	
	SEWER SEPARATION	
DATE: JANUARY, 2018	DRAWN BY: S. FORD	
LATEST REV: JANUARY, 2018	APP'D BY: M.S./E.N.	



	STANDARD DETAIL	
	FIRE HYDRANT PROTECTION-PIPE BOLLARD DETAIL	
DATE: JANUARY, 2018	DRAWN BY: S. FORD	
LATEST REV: JANUARY, 2018	APP'D BY: M.S./E.N.	



	STANDARD DETAIL	
	TAPPING SLEEVE AND TAPPING VALVE	
DATE: JANUARY, 2018	DRAWN BY: S. FORD	
LATEST REV: JANUARY, 2018	APP'D BY: M.S./E.N.	



155 Indiana Avenue
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**PORTER COUNTY
NORTH ANNEX**

**3560 WILLOWCREEK RD
PORTAGE, IN 46368**



Nathan Winslow
CERTIFIED BY

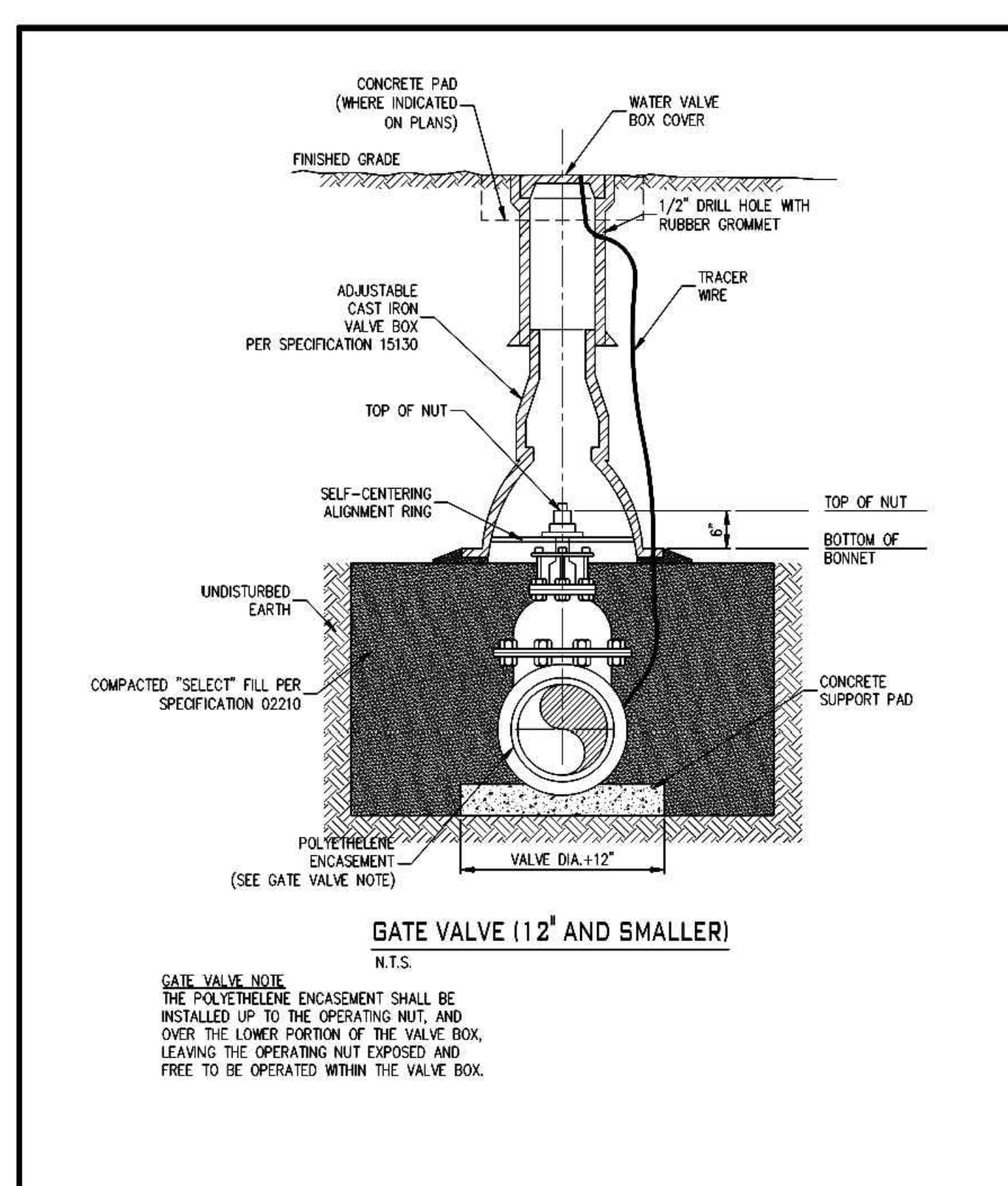
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DATE:	08/17/2018
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

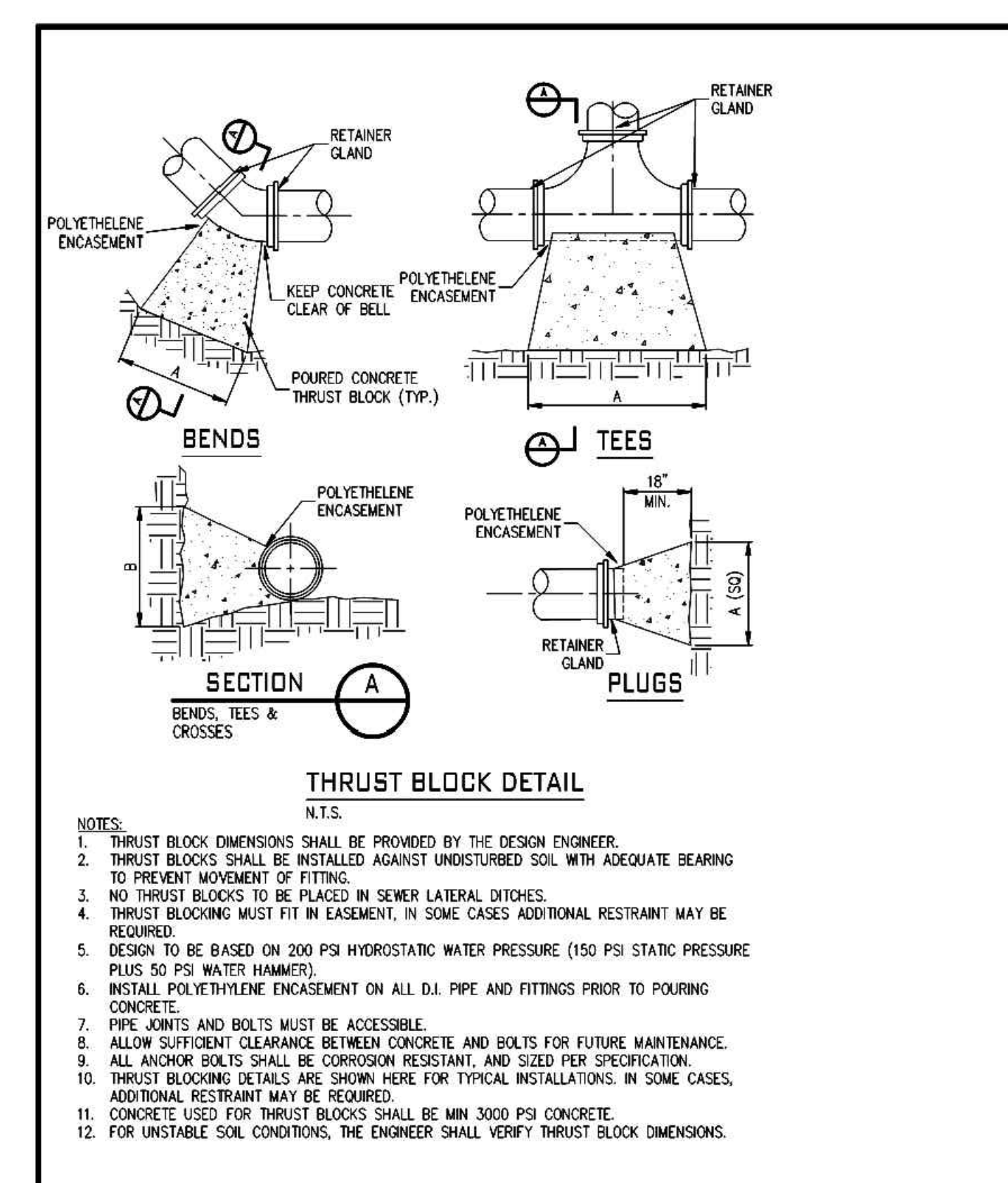
Project Number 2017.01279

**IAWC WATER
INSTALLATION
DETAILS AND NOTES**

C611



	STANDARD DETAIL	
	GATE VALVE (12" AND SMALLER)	
DATE: JANUARY, 2018	DRAWN BY: S. FORD	
LATEST REV: JANUARY, 2018	APP'D BY: M.S./E.N.	

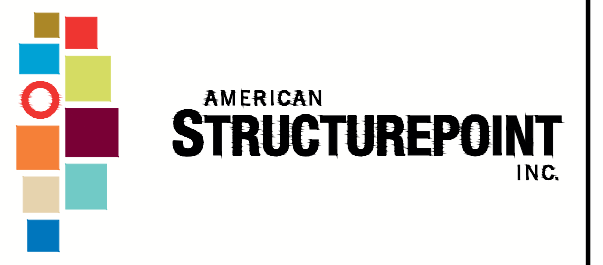


	STANDARD DETAIL	
	THRUST BLOCKS	
DATE: JANUARY, 2018	DRAWN BY: S. FORD	
LATEST REV: JANUARY, 2018	APP'D BY: M.S./E.N.	

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PLOT SCALE: 1:2.5845
EDIT DATE: 8/2/2018
EDITED BY: TRENCH



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**PORTER COUNTY
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Nathan Winslow
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ISSUANCE INDEX	
DATE:	08/17/2018
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

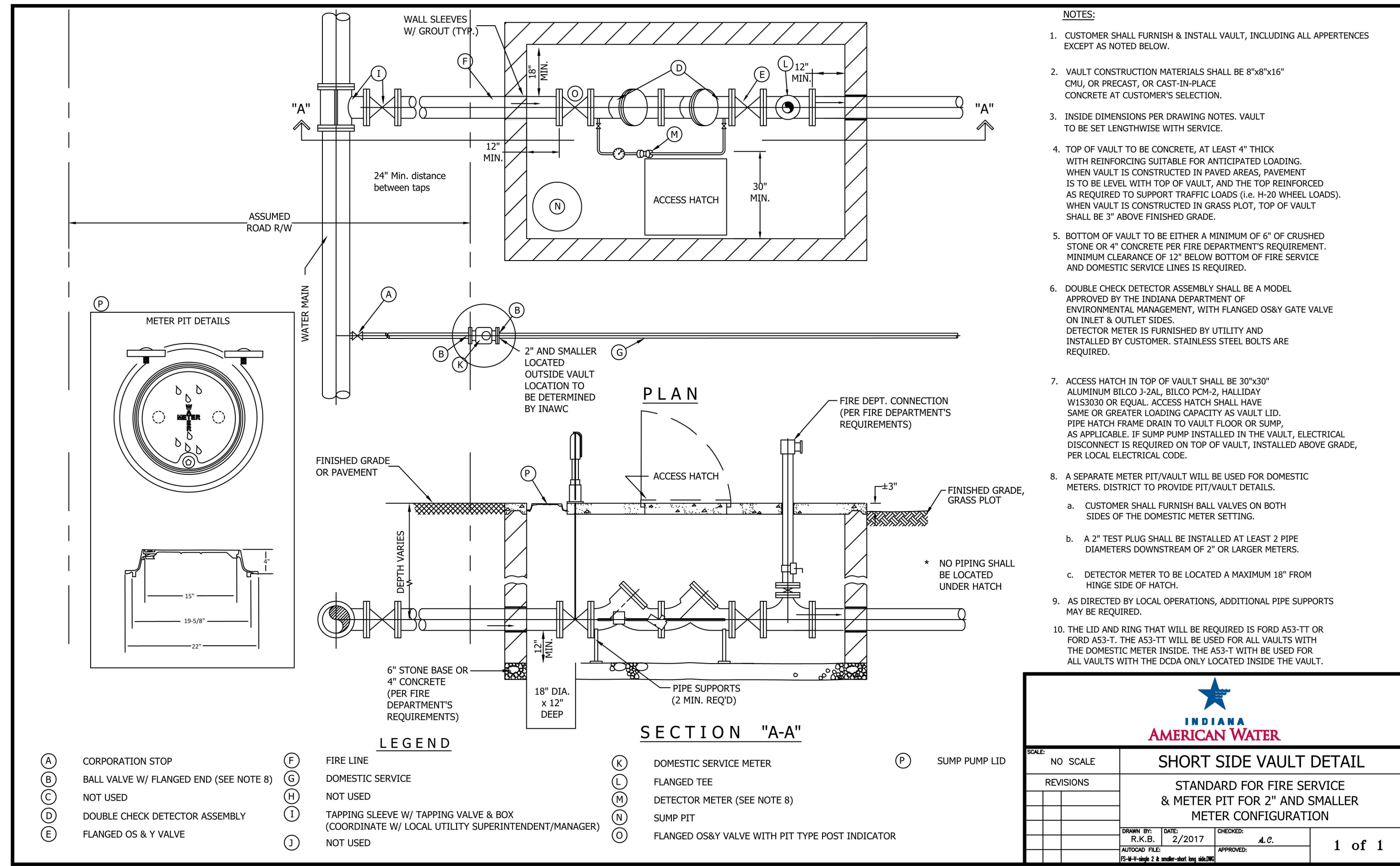
Project Number 2017.01279

**IAWC WATER
INSTALLATION
DETAILS AND NOTES**

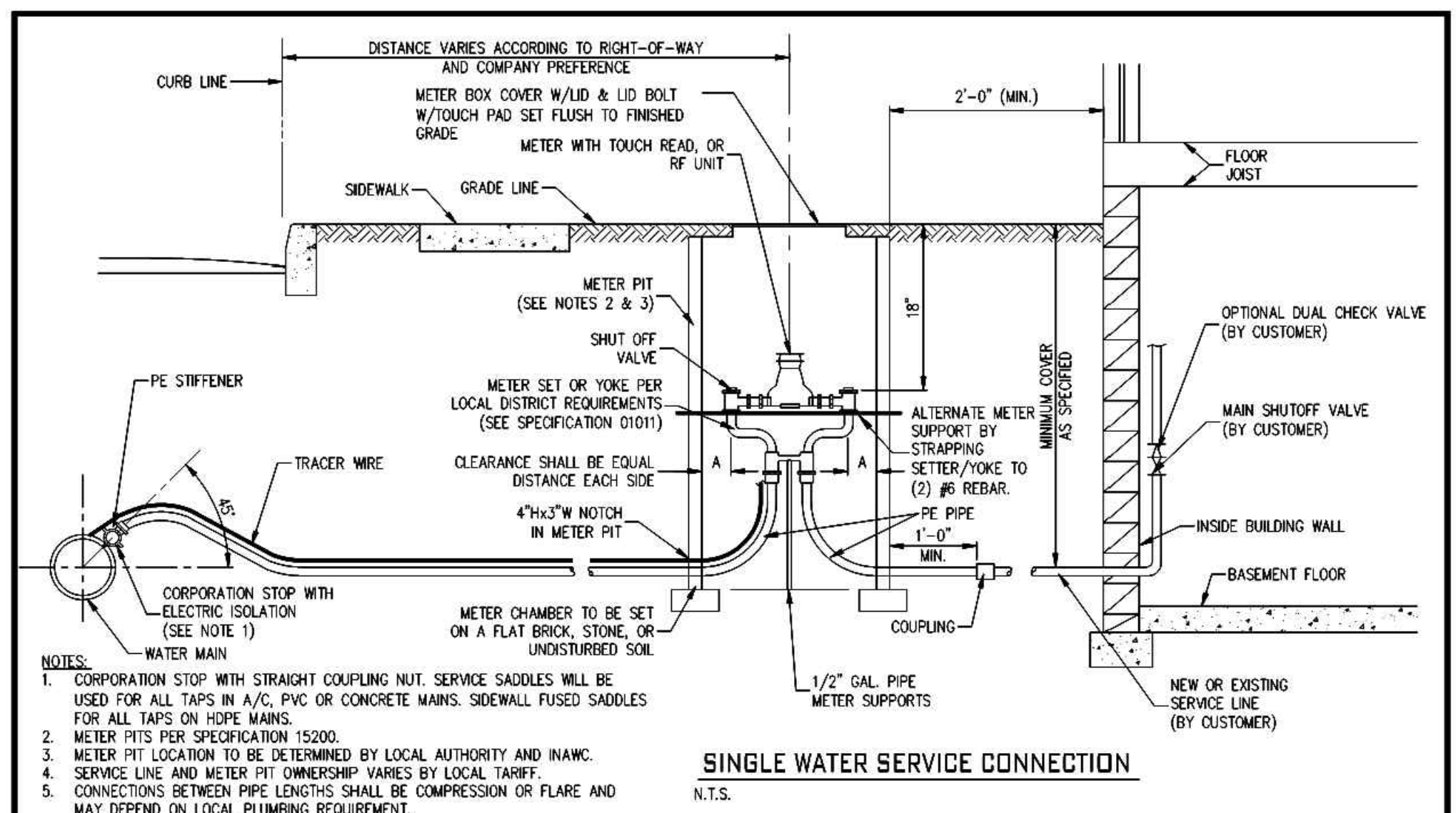
C612

- WATER UTILITY INSTALLATION NOTES**
- For PVC C900 pipe installation: DR14 pipe is required. Deflection of pipe joints and bending of pipes are not permitted. All angles shall be made with proper fittings. When restraint of pipe-to-pipe joints are required, all joints shall be restrained with external split serrated restraint harnesses. Select fill material required for bedding and embedment regardless of pipe's proximity to pavement.
 - For Ductile Iron pipe installation: Pressure Class 350 for pipes 12-inch nominal size and smaller. When restraint of pipe-to-pipe joints are required, push-on restraining gaskets with integral stainless steel locking segments are permitted on pipe-to-pipe connections 12-inch nominal size and smaller only. Pipe-to-pipe connections greater than 12-inch nominal size shall be restrained per specification section 15105.
 - Encase all ductile iron piping, ductile iron fittings, valves, hydrants, and all other metallic appurtenances in 12mil polyethylene.
 - All fire hydrant laterals shall be ductile iron pipe.
 - All MJ T-bolts and flange bolts shall have Xylan or FluoroKote #1 corrosion resistant coating.
 - All fittings shall be restrained using MJ retainer glands or poured concrete thrust blocks.
 - Copper-clad steel tracer wire required on installation of all pipe. Tracer wire shall be taped to pipe or polyethylene encasement at a minimum spacing of 10-feet. Splices shall be encased in waterproof connectors. Continuity shall be tested after completion of backfill.
 - Select fill material required for final backfill when within 5-feet of pavement per specification section 02210.
 - Maintain the required 10-feet of horizontal separation and 18-inches of vertical separation from sanitary and storm sewers. Maintain 8-feet of horizontal separation from sanitary and storm structures. See 327 IAC 8-3.2-9 of the Indiana Administrative Code for more information.
 - Maintain minimum cover depth of X' and a maximum of X'+24".

- USER NOTES:**
- Depending on water main pipe material, choose between note #1 or #2.
 - X' per 327 IAC 8-3.2-17(d)



SCALE:	NO SCALE
REVISIONS:	
INDIANA AMERICAN WATER	
SHORT SIDE VAULT DETAIL	
STANDARD FOR FIRE SERVICE & METER PIT FOR 2" AND SMALLER METER CONFIGURATION	
DATE:	2/2017
DESIGNED BY:	A.C.
CHECKED BY:	
APPROVED BY:	
1 of 1	



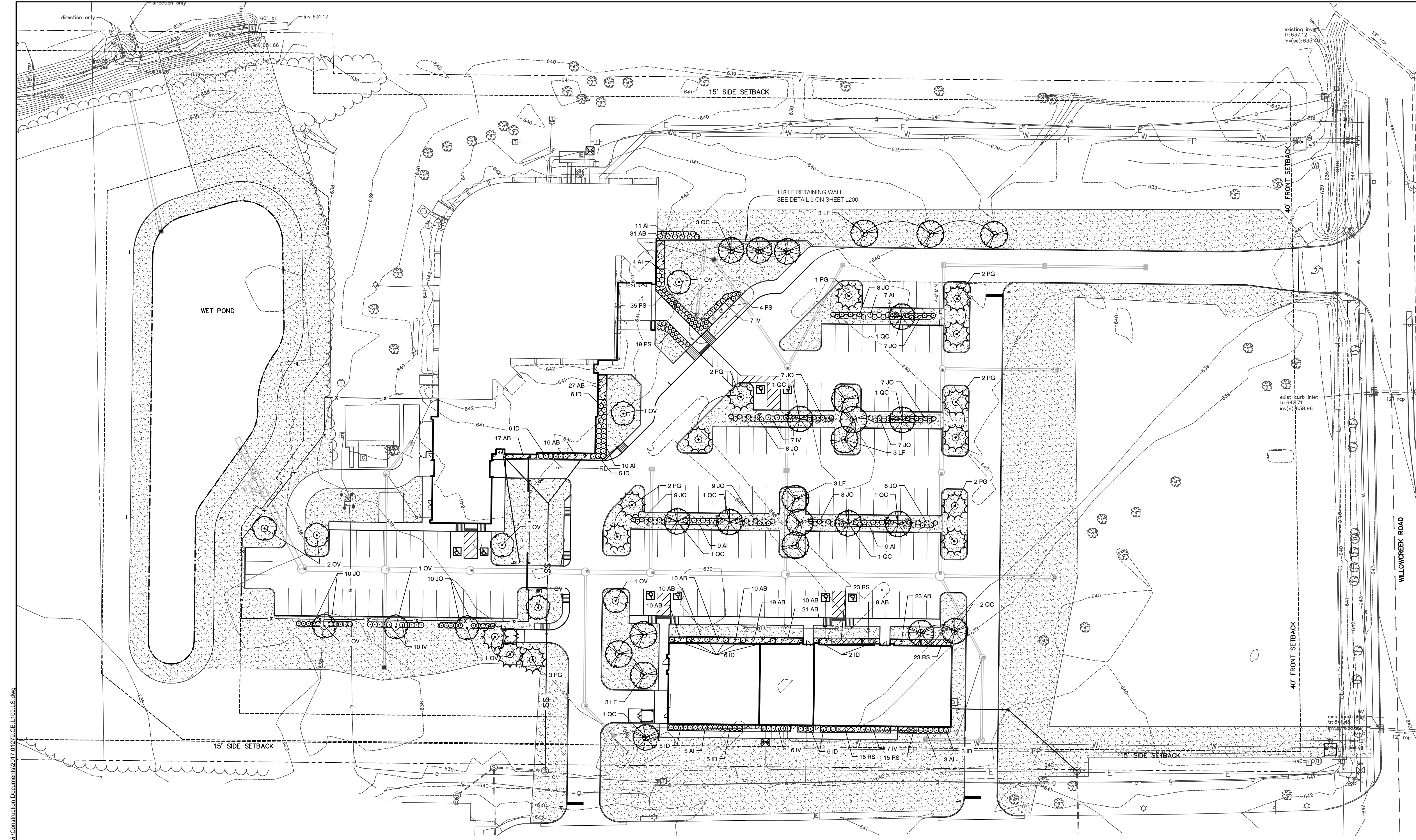
INDIANA AMERICAN WATER
ENGINEERING DEPARTMENT
153 N. EMERSON AVENUE
GREENWOOD, INDIANA 46143

STANDARD DETAIL

SINGLE WATER SERVICE

DATE:	JANUARY, 2018	DRAWN BY:	S. FORD
LATEST REV:	JANUARY, 2018	APP'D BY:	M.S./E.N.

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EDITED BY: TRENCH
PLOT DATE: 8/7/2018 9:20 AM
PLOT SCALE: 1:2.5845



GENERAL NOTES:

- CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS IN THE FIELD PRIOR TO BEGINNING WORK. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES ASSOCIATED WITH WORK. UTILITIES SHALL BE REPAIRED TO SATISFACTION OF THE UTILITY OWNER AND/OR OPERATING AUTHORITY AT NO ADDITIONAL COST.
- A MINIMUM OF 4" OF TOPSOIL, 2" MULCH AND SOIL CONDITIONER SHALL BE PLACED ON ALL AREAS TO BE SEED, SODDED AND PLANTED. PLANTING SOIL MIX SHALL BE FREE FROM SUBSOIL, VEGETATION, WEEDS OR ANY EXTRANEOUS OR DELETERIOUS MATERIALS LARGER THAN 1". REMOVE ANY UNSUITABLE AND EXCESS TOPSOIL, AS DETERMINED BY SOILS ENGINEER, FROM THE SITE. FURNISH ANY ADDITIONAL TOPSOIL NEEDED AT NO ADDITIONAL COST. ADDED TOPSOIL SHALL BE INCORPORATED INTO EXISTING SOIL.
- IN CASE OF DISCREPANCIES BETWEEN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICATE. IF IN QUESTION, CONTACT THE LANDSCAPE ARCHITECT.
- ALL PLANTING BEDS SHALL HAVE A 3" THICK LAYER OF SHREDDED HARDWOOD BARK MULCH. NO UTILITY MULCH OR PROCESSED TREE TRIMMINGS WILL BE ALLOWED. ALL PLANTING BEDS SHALL HAVE PRE-EMERGENT HERBICIDE APPLIED AS PER MANUFACTURER'S RECOMMENDATION, AFTER INSTALLATION IS COMPLETE.
- FINAL PLACEMENT OF PLANT MATERIALS, ETC. SHALL BE APPROVED BY LANDSCAPE ARCHITECT BEFORE PLANTING OPERATIONS ARE TO PROCEED. ALL TREE LOCATIONS SHALL BE MARKED WITH A WOODEN STAKE INDICATING VARIETY AND SIZE OF TREE.
- NO SUBSTITUTIONS OF PLANT MATERIAL WILL BE ALLOWED. IF PLANTS ARE SHOWN TO BE UNAVAILABLE, THE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT PRIOR TO BID DATE IN WRITING. ALL PLANTS SHALL BE INSPECTED AND TAGGED WITH PROJECT IDENTIFICATION AT NURSERY OR CONTRACTOR'S OPERATION PRIOR TO MOVING TO JOB SITE. PLANTS MAY ALSO BE INSPECTED AND APPROVED OR REJECTED ON THE JOB SITE.
- ALL PLANTS ARE TO MEET OR EXCEED AMERICAN STANDARDS FOR NURSERY STOCK, 2004 EDITION, AS SET FORTH BY AMERICAN ASSOCIATION OF NURSERMEN.
- PLANTS AND ALL OTHER MATERIALS TO BE STORED ON SITE WILL BE PLACED WHERE THEY WILL NOT CONFLICT WITH CONSTRUCTION AND AS DIRECTED BY OWNER.
- ALL NEW LANDSCAPE PLANTINGS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FOLLOWING FINAL INSPECTION BY LANDSCAPE ARCHITECT. AT END OF THIS PERIOD, PLANT MATERIAL TERMED DEAD OR UNSATISFACTORY BY LANDSCAPE ARCHITECT SHALL BE REPLACED AT NO ADDITIONAL CHARGE BY THE LANDSCAPE CONTRACTOR.
- ALL DISTURBED LAWN AREAS SHALL BE HYDRO-SEEDED OR SODDED AS SHOWN PER THE LANDSCAPE AND EROSION CONTROL PLANS.
- LAWN AND SOD AREAS ARE TO BE GRADED UNIFORMLY WITHOUT ANY UNDULATIONS OR IRREGULARITIES IN THE SURFACE PRIOR TO ANY HYDRO-SEED OR SOD WORK.
- ALL LAWN IS TO BE A BLEND PER THE PLANT SCHEDULE. HYDRO-SEED AREAS ARE TO HAVE 0% NOXIOUS WEED AND FREE OF DISEASE.
- PROTECT LAWN SEEDED AREAS WITH STRAW MULCH. SPREAD MULCH UNIFORMLY AT A MINIMUM RATE OF 2 TONS PER ACRE TO FORM A CONTINUOUS BLANKET 1-1/2 INCHES IN LOOSE THICKNESS OVER SEEDED AREAS.

ORDINANCE NOTES:

SITE ZONED: IS - INSTITUTIONAL

NEW PLANTING REQUIREMENTS:
 ALL NATIVE SPECIES ARE REQUIRED
 DECIDUOUS TREES TO BE INSTALLED AT 2" CALIPER (MIN)
 EVERGREEN TREES TO BE INSTALLED AT 6" HEIGHT (MIN.)

LOT PLANTING AREAS:
 A SITE OVER 40,000 SF SHALL BE REQUIRED TO PLANT
 (4) DECIDUOUS TREES IN THE LOT PLANTING AREA, AND
 (1) DECIDUOUS TREE FOR EACH ADDITIONAL 20,000 SF

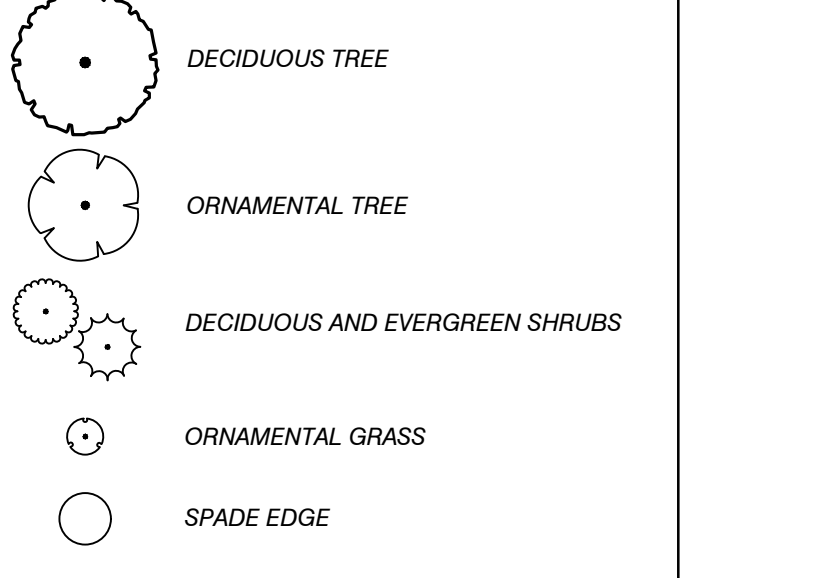
SITE AREA: 600,590 SF
 REQUIRED: (32) DECIDUOUS TREES
 PROVIDED: (36) EXISTING TREES TO BE PRESERVED

FOUNDATION PLANTING AREAS
 (1) DECIDUOUS TREE + (4) SHRUBS REQUIRED PER 40 LF OF FOUNDATION FACING STREETS OR PARKING FACILITIES

SOUTH BUILDING FOUNDATION (235 LF)
 REQUIRED: (5.9) TREES + (23.5) SHRUBS
 PROVIDED: (6) TREES + (48) SHRUBS

NORTH BUILDING FOUNDATION (380 LF)
 REQUIRED: (9.5) TREES + (38) SHRUBS
 PROVIDED: (2) TREES + (38) SHRUBS

LANDSCAPE LEGEND



PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME / COMMON NAME	COND.	SIZE	SPACING
LF	12	Liquidambar styraciflua 'Fastigiata' / Sweetgum 'Fastigiata'	B & B	2" Cal	As shown
OV	10	Ostrya virginiana / American Hophornbeam	B & B	2" Cal	As shown
PG	14	Picea pungens 'Glauca' / Colorado Blue Spruce	B & B	6" Ht.	As shown
QC	13	Quercus coccinea / Scarlet Oak	B & B	2" Cal	As shown
SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	COND.	SIZE	SPACING
AI	58	Aronia melanocarpa 'Iroquois Beauty' TM / Black Chokeberry	CONT.	3 GAL	5' O.C.
ID	44	Ilex glabra 'Densa' / Inkberry Holly	CONT.	3 GAL	4' O.C.
IV	37	Itea virginica 'Henry's Garnet' / Henry's Garnet Sweetspire	CONT.	1 Gal.	3' O.C.
JO	98	Juniperus virginiana 'Grey Owl' / Eastern Redcedar	CONT.	3 GAL	4' O.C.
PS	58	Panicum virgatum 'Shenandoah' / Switch Grass	CONT.	1 Gal.	3' O.C.
PERENNIALS	QTY	BOTANICAL NAME / COMMON NAME	COND.	SIZE	SPACING
AB	213	Amsonia tabernaemontana 'Blue Ice' / Blue Ice Star Flower	CONT.	4" Pot	18" O.C.
RS	76	Rudbeckia fulgida sultivantii 'Little Goldstar' / Coneflower	CONT.	4" Pot	18" O.C.

TURF SCHEDULE

	TURF SEED MIX See specifications for additional lawn seed mixes and installation requirements.	127,736 sf
	Agrostis alba / Redtop	12,774 sf
	Festuca rubra / Red Fescue	38,321 sf
	Lolium perenne / Perennial Ryegrass	12,774 sf



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AMERICAN STRUCTUREPOINT INC.
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PORTER COUNTY NORTH ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368

REGISTERED
 No. LA21700012
 STATE OF INDIANA
 LANDSCAPE ARCHITECT

 CERTIFIED BY

ISSUANCE INDEX

DATE:	08/17/2018
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2017.01279

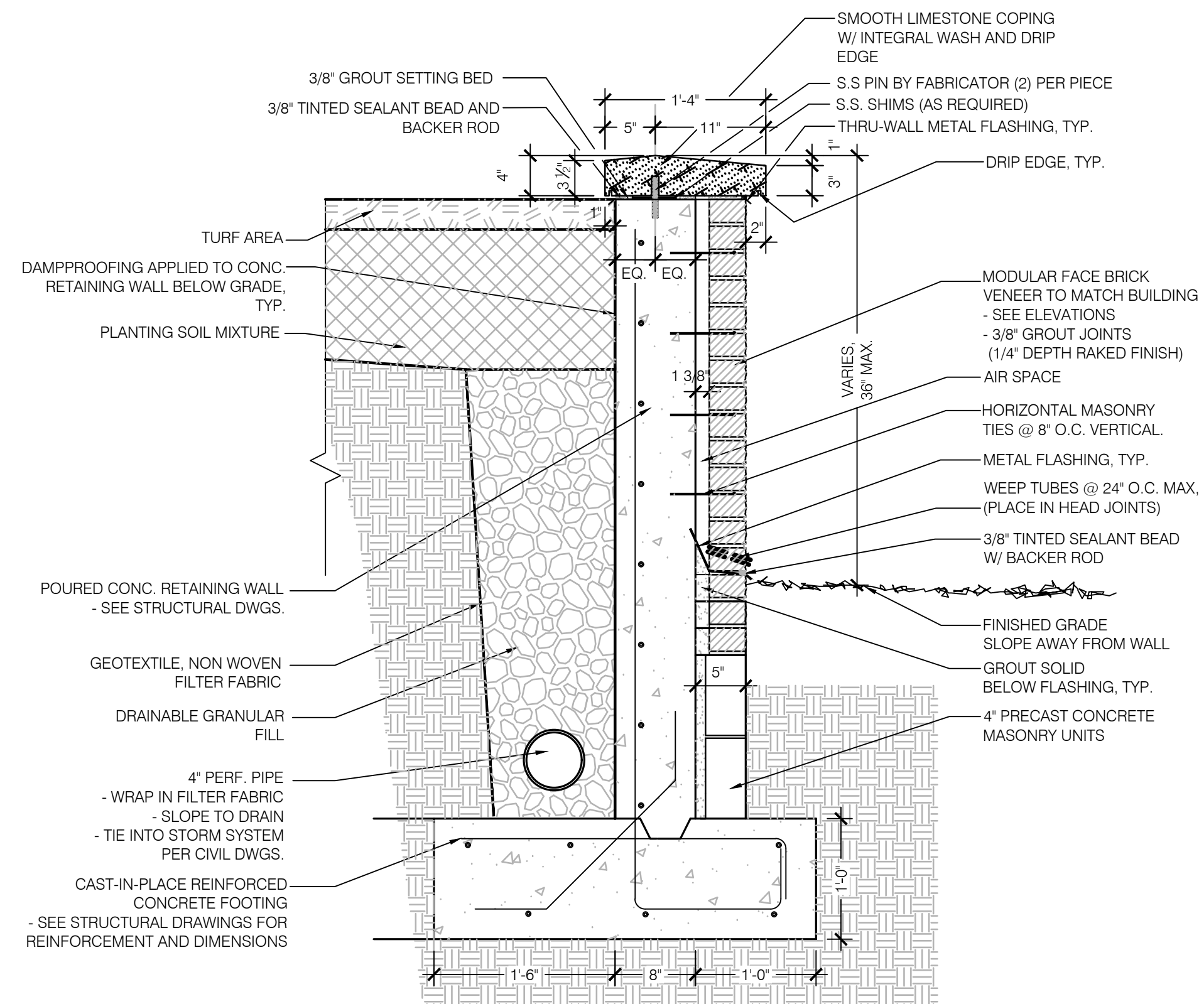
LANDSCAPE PLAN

0' 40' 80'
 SCALE: 1"=40'

L100

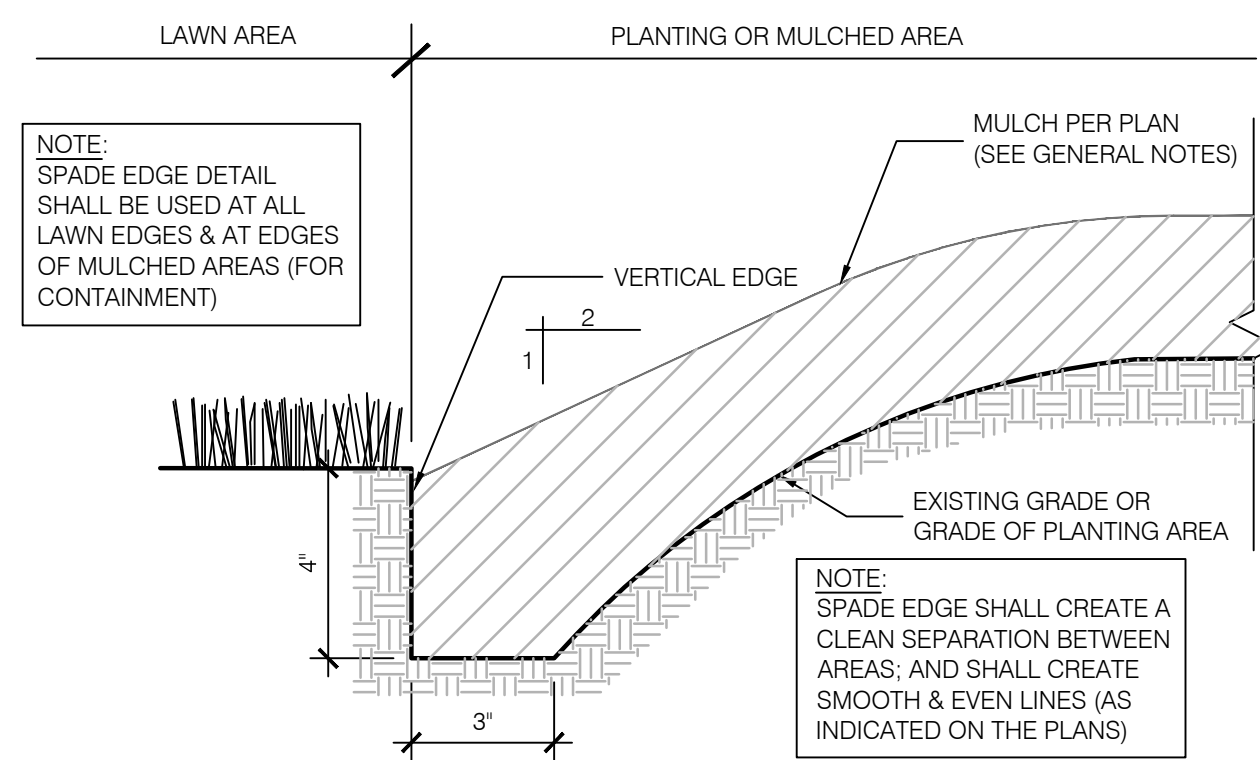
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 EDITED BY: ABLEICHER
 EDIT DATE: 8/16/2018

PLOT DATE: 8/17/2018 2:38 PM
 PLOT SCALE: 1/2"=1'-0"
 EDIT DATE: 8/17/2018
 EDITED BY: ABLEICHER
 DRAWING FILE: P:\2017\0121290_Drawing\Civil\Construction Documents\2017.012129_CE_L300.DWG



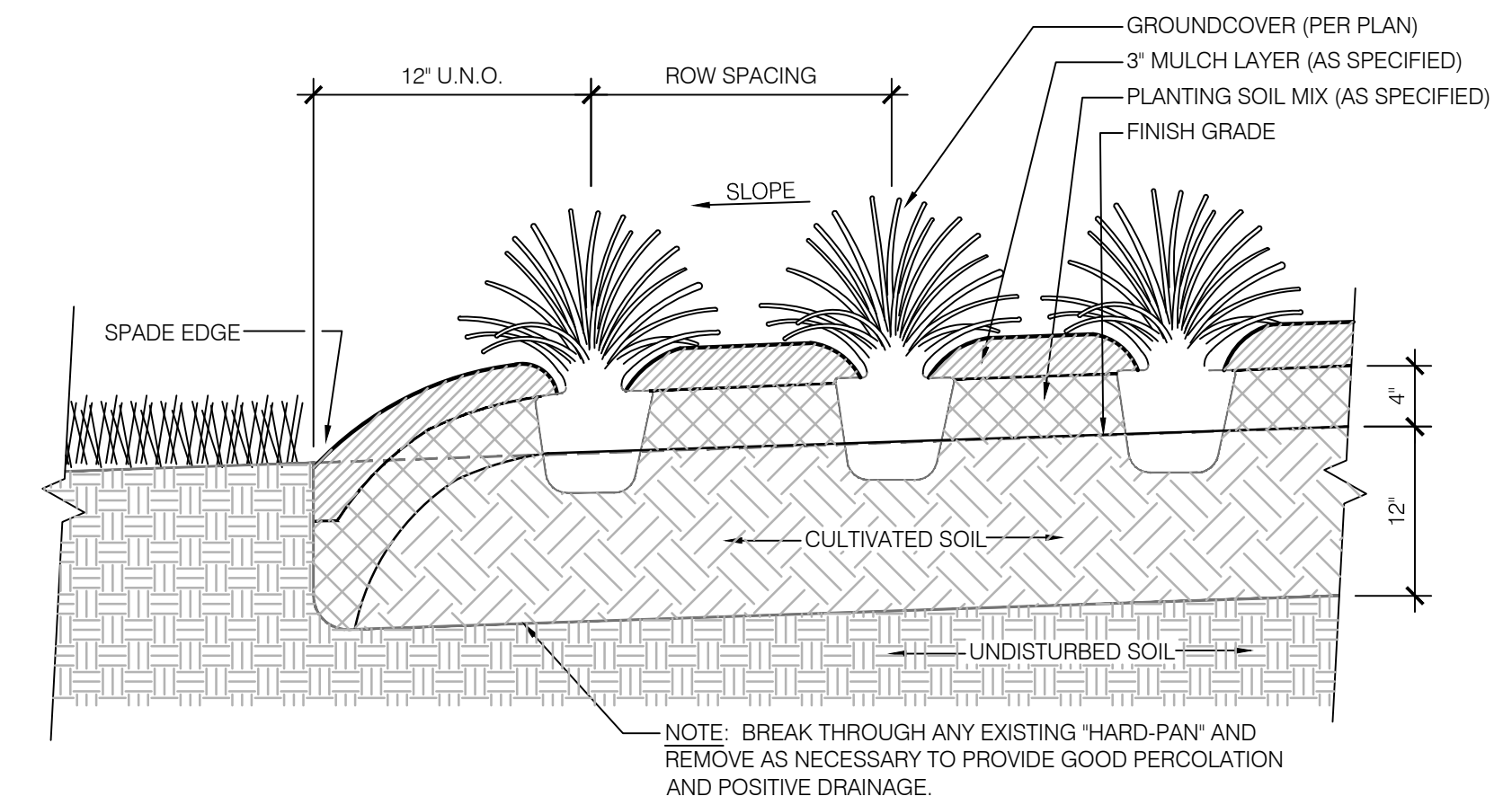
05 RETAINING WALL DETAIL

L200 Scale: NTS



04 SPADE EDGE DETAIL

L200 Scale: NTS

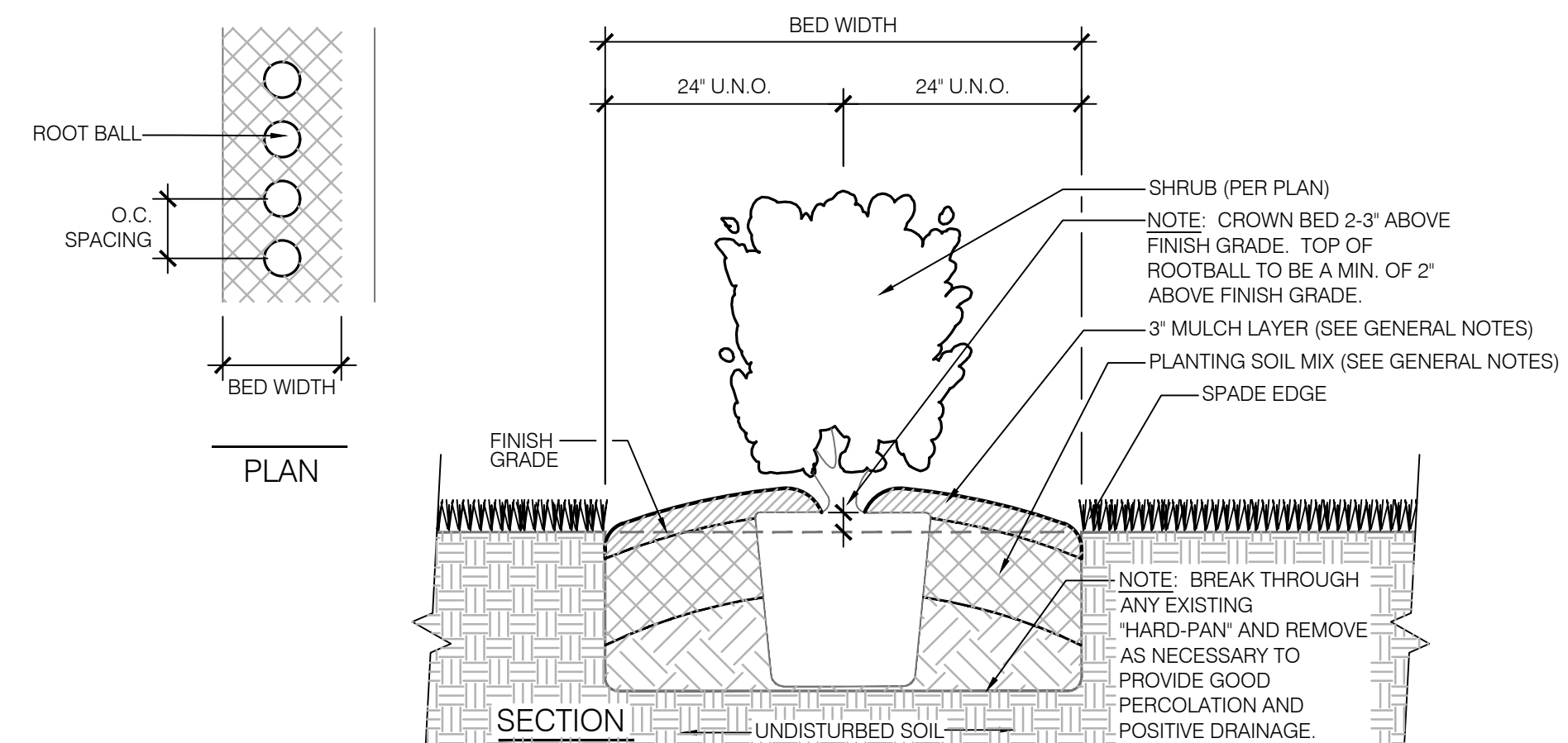


PLANTING PROCEDURE

- LAYOUT BED AND OUTLINE WITH SPADE EDGE. PLACE SOIL FROM SPADE EDGE WITHIN BED.
- ROTOTILL BED TO 12" DEPTH. SPREAD 4" MIN. LAYER OF PLANTING SOIL MIX OVER BED. ROTOTILL PLANTING SOIL MIX INTO TOP OF BED.
- INSTALL PLANTS, MULCH AND WATER THOROUGHLY. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.

03 GROUNDCOVER PLANTING DETAIL

L200 Scale: NTS



PLANTING PROCEDURE

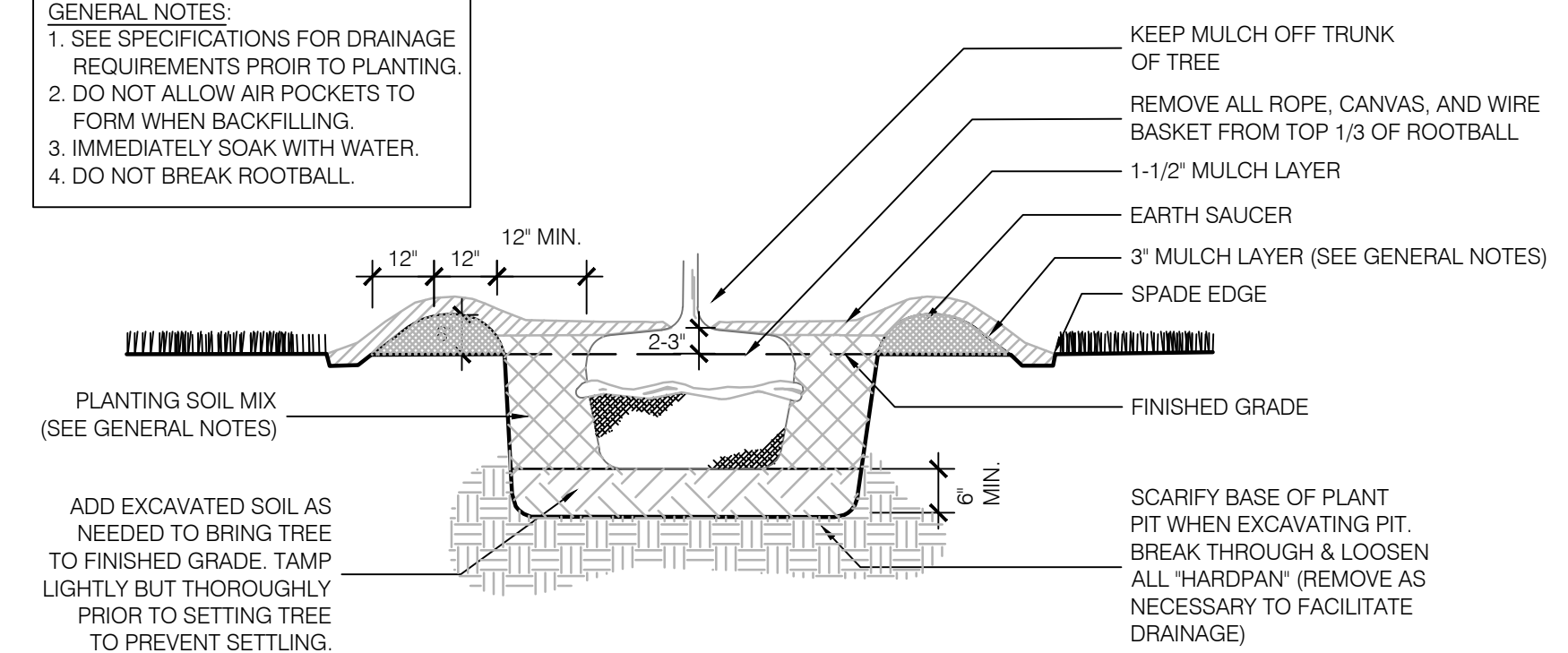
- LAYOUT BED AND OUTLINE WITH SPADE EDGE. PLACE SOIL FROM SPADE EDGE WITHIN BED.
- ROTOTILL BED TO A 12" MIN. DEPTH OR AS REQUIRED FOR SPECIFIED SHRUBS. REMOVE EXISTING SOIL AS REQUIRED. SPREAD 6" MIN. LAYER OF PLANTING SOIL MIX OVER BED. ROTOTILL PLANTING SOIL MIX INTO TOP OF BED.
- INSTALL PLANTS, MULCH AND WATER THOROUGHLY. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.

02 SHRUB PLANTING DETAIL

L200 Scale: NTS

GENERAL NOTES:

- SEE SPECIFICATIONS FOR DRAINAGE REQUIREMENTS PRIOR TO PLANTING.
- DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
- IMMEDIATELY SOAK WITH WATER.
- DO NOT BREAK ROOTBALL.



PLANTING PROCEDURE

- EXCAVATE ROOTBALL PIT
- ADD EXCAVATED SOIL & TAMP. SET TREE SUCH THAT TOP OF ROOTBALL IS 2-3" HIGHER THAN FINISHED GRADE.
- BACKFILL WITH SOIL MIX & "WATER IN"
- COMPLETE BACKFILLING. CONSTRUCT SAUCER, SPADE EDGE & ADD MULCH
- STAKE & GUY SECURELY (AS REQUIRED)

01 TREE PLANTING DETAIL

L200 Scale: NTS



155 Indiana Avenue
Valparaiso, IN 46383



7260 Shadeland Station | Indianapolis, Indiana 46256
TEL 317.547.8580 | FAX 317.543.0270
www.structurepoint.com

**PORTER COUNTY
NORTH ANNEX**

**3560 WILLOWCREEK RD
PORTAGE, IN 46368**



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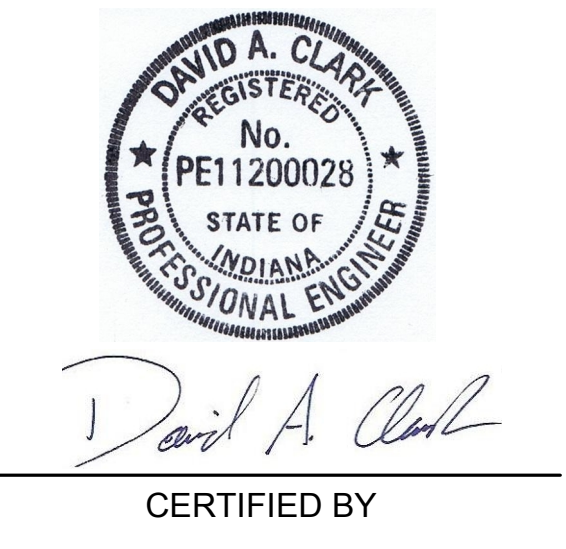
ISSUANCE INDEX	
DATE:	08/17/2018
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

**LANDSCAPE
DETAILS**

L200



ISSUANCE INDEX

DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE

NO.	DESCRIPTION	DATE
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AREA A - ROOF JOIST NET UPLIFT

EFFECTIVE WIND AREA (SF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)
10	8.6	21.5	37.7
20	8.1	18.3	29.6
50	7.8	10.2	18.3
≥ 100	7.0	10.2	10.2

NOTES:
1. REFERENCE ASCE 7-10, FIGURE 30.4-2B
2. FORCES SHOWN ARE ASD WIND LOADS COMBINATION 0.6D+0.6W

AREA B - ROOF JOIST NET UPLIFT

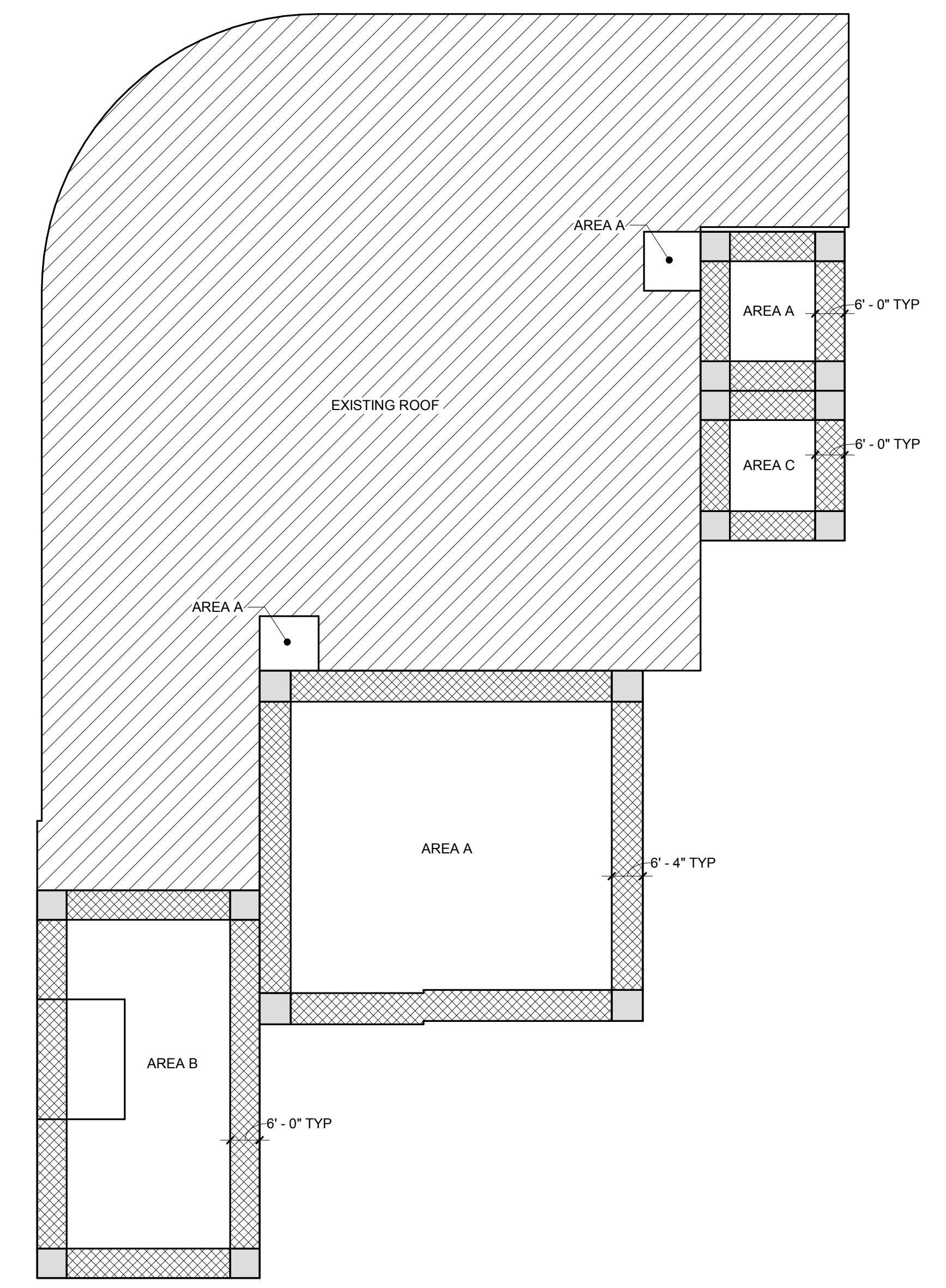
EFFECTIVE WIND AREA (SF)	ZONE 1 (PSF)	ZONE 2 (PSF)	ZONE 3 (PSF)
10	5.7	17.7	31.3
20	5.0	15.5	28.3
50	4.5	12.5	25.3
≥ 100	4.2	10.2	22.2

NOTES:
1. REFERENCE ASCE 7-10, FIGURE 30.4-2B
2. FORCES SHOWN ARE ASD WIND LOADS COMBINATION 0.6D+0.6W

AREA C - ROOF JOIST NET UPLIFT

EFFECTIVE WIND AREA (SF)	ZONE 1&2 (PSF)	ZONE 3 (PSF)
10	22.3	40.1
20	21.5	30.4
50	21.0	17.4
≥ 100	20.7	7.7

NOTES:
1. REFERENCE ASCE 7-10, FIGURE 30.8-1
2. FORCES SHOWN ARE ASD WIND LOADS COMBINATION 0.6D+0.6W

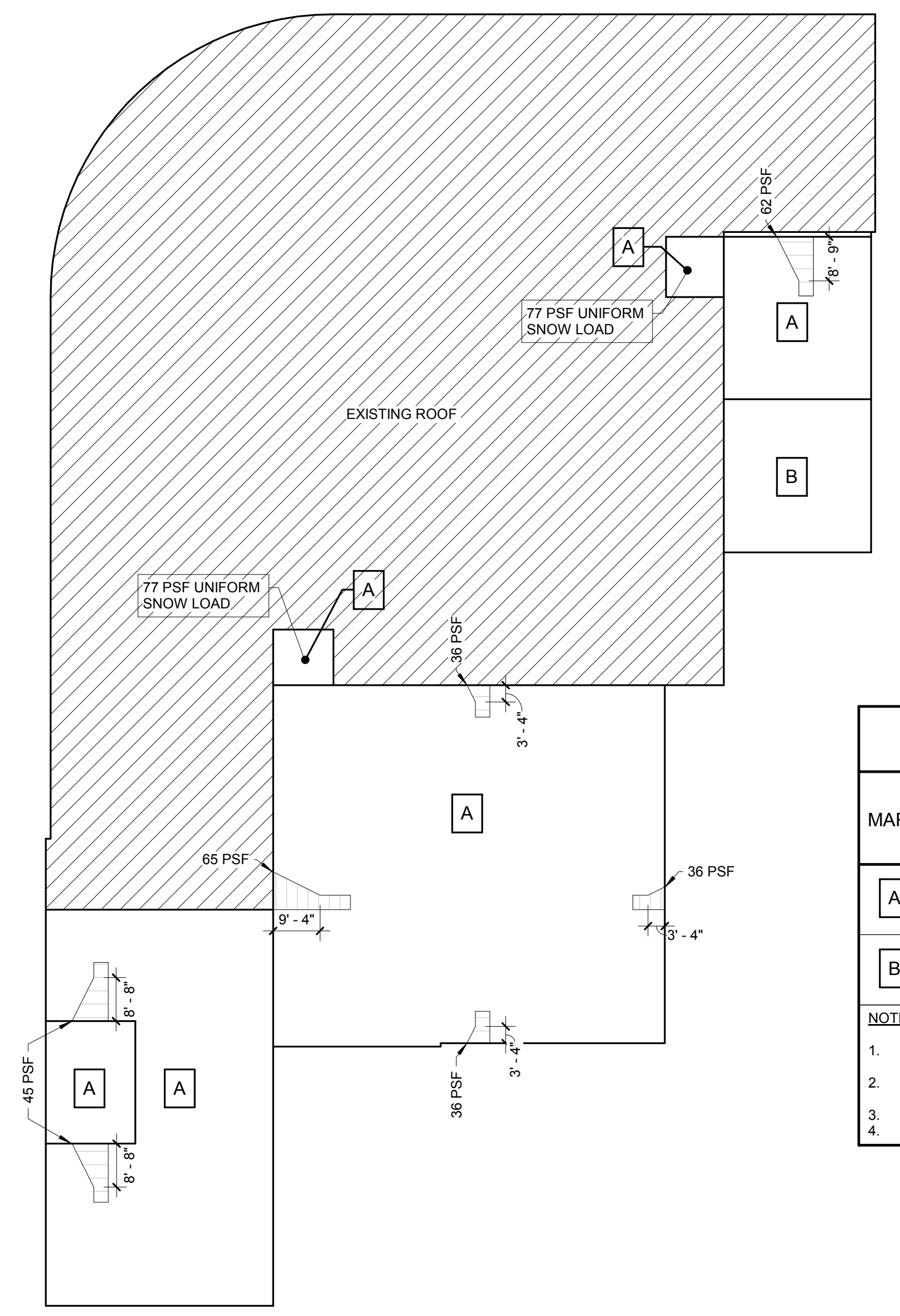
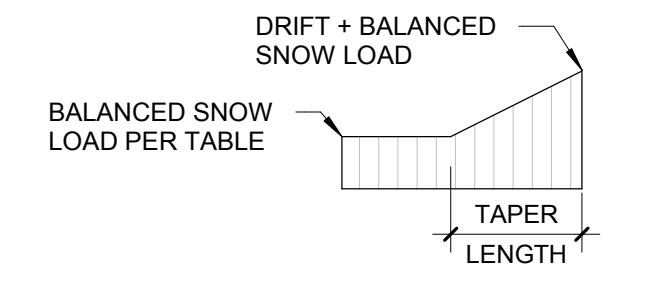


2 S004 N.T.S. **ROOF JOISTS NET UPLIFT**

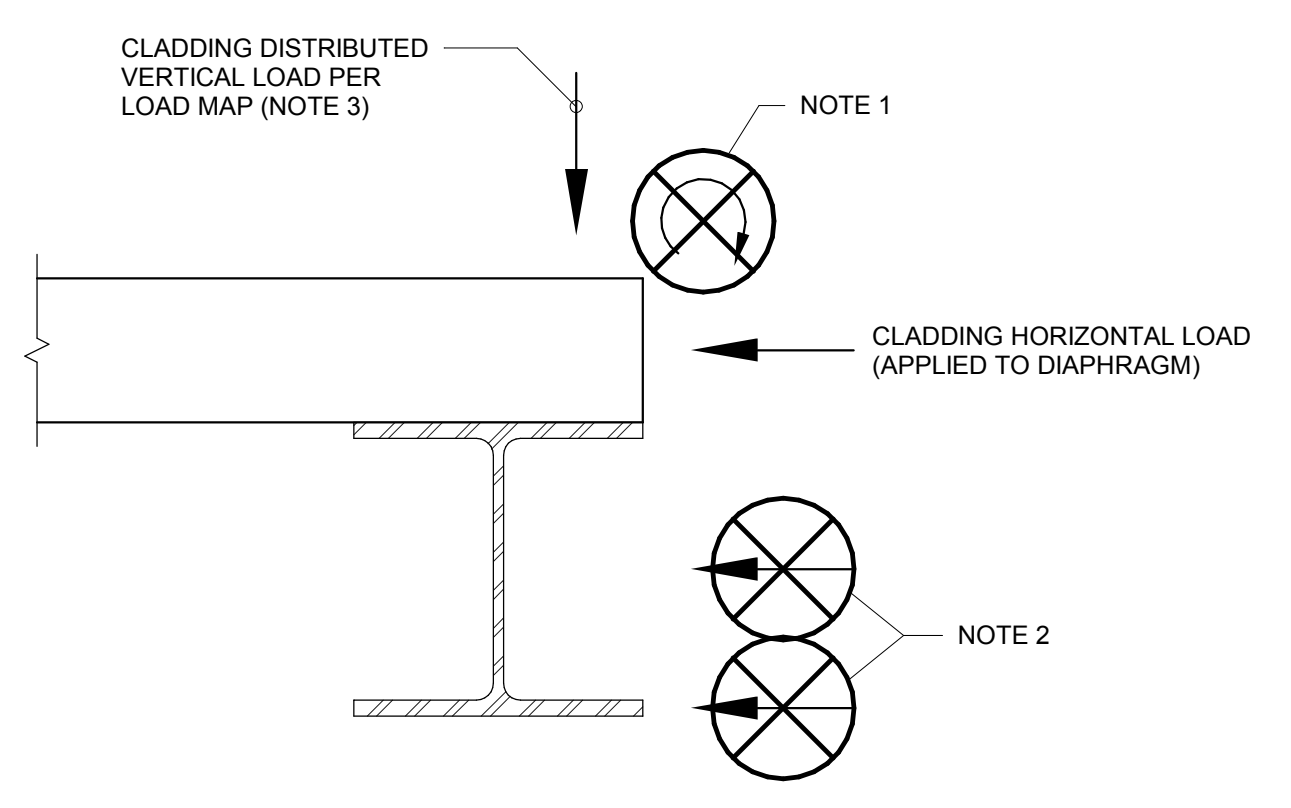
UNIFORM LOAD SCHEDULE

MARK	DESCRIPTION	DESIGN LOADS (PSF)			
		DEAD	SUPERIMPOSED DEAD	LIVE	SNOW
A	TYPICAL ROOF	SEE NOTE 1	10	20	21 PSF MIN -OR- DRIFT PER LOAD MAPS / DIAGRAMS
B	CANOPY	SEE NOTE 1	6	20	26 PSF MIN -OR- DRIFT PER LOAD MAPS / DIAGRAMS

NOTES:
1. DEAD LOAD (WHEN DEFINED) REPRESENTS SELF-WEIGHT ALLOWANCE OF THE PRIMARY STRUCTURAL SYSTEM. WHEN NOT DEFINED, SEE DRAWINGS FOR MEMBER MATERIALS AND SIZES.
2. SUPERIMPOSED DEAD LOAD IS PERMANENT UNIFORM DEAD LOAD ALLOWANCE SUPPORTED BY THE STRUCTURE.
3. FOR SNOW LOADS DESIGN FOR WORST CASE OF UNIFORM SNOW OR SNOW DRIFT CONDITION.
4. "NR" = NON-REDUCIBLE LIVE LOAD.

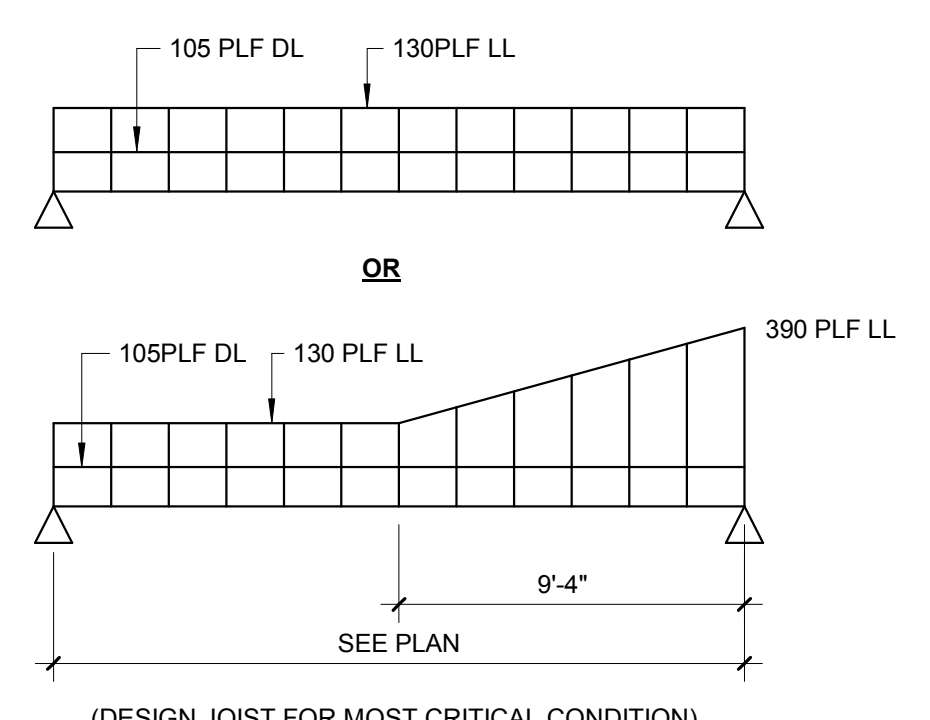


1 S004 N.T.S. **ROOF LOOP MAP**

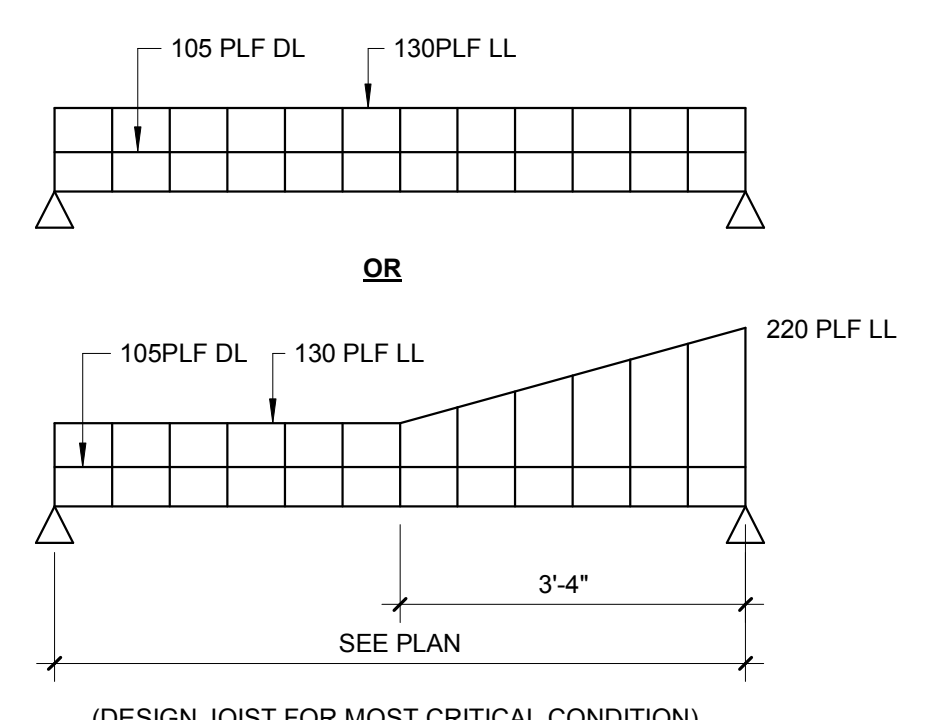


- NOTES:
1. DO NOT APPLY MOMENTS TO STRUCTURE.
2. DO NOT APPLY HORIZONTAL LOADS BELOW THE STRUCTURAL DIAPHRAGM UNLESS BOTTOM CHORD BRACING (DESIGNED BY CONTRACTOR) HAS BEEN PROVIDED.
3. VERTICAL LOADS APPLIED AS POINT LOADS MUST BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO SHOP DRAWING SUBMISSION.

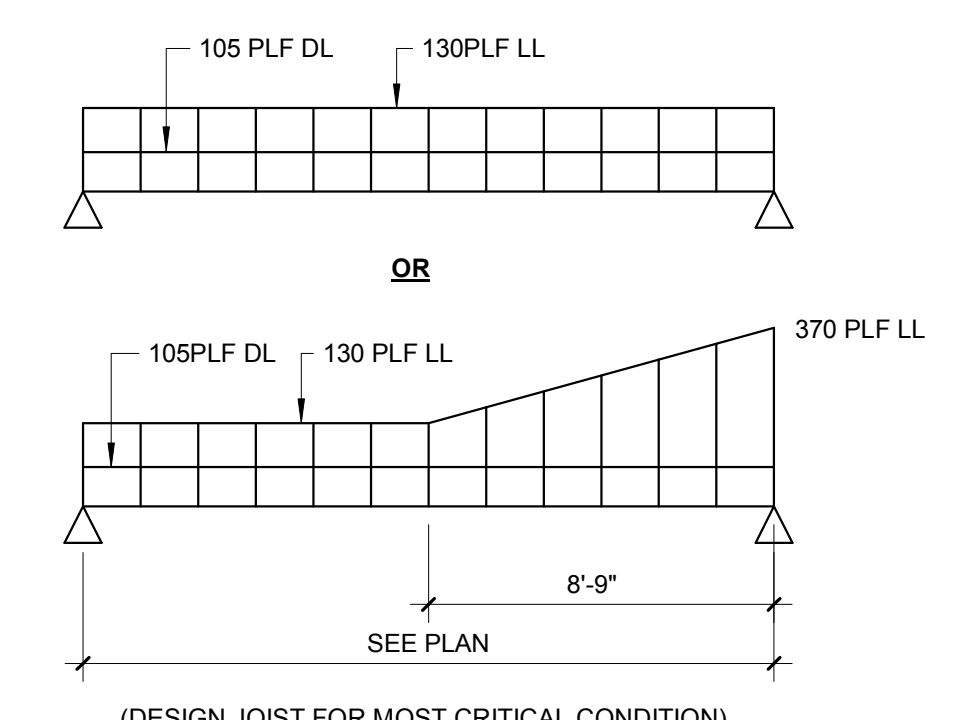
3 S004 N.T.S. **TYPICAL CLADDING LOAD APPLICATION**



4 S004 N.T.S. **SPECIAL JOIST LOAD DIAGRAM**



5 S004 N.T.S. **SPECIAL JOIST LOAD DIAGRAM**



6 S004 N.T.S. **SPECIAL JOIST LOAD DIAGRAM**



**PORTER COUNTY -
NORTH ANNEX**
PORTAGE, IN



David A. Clark
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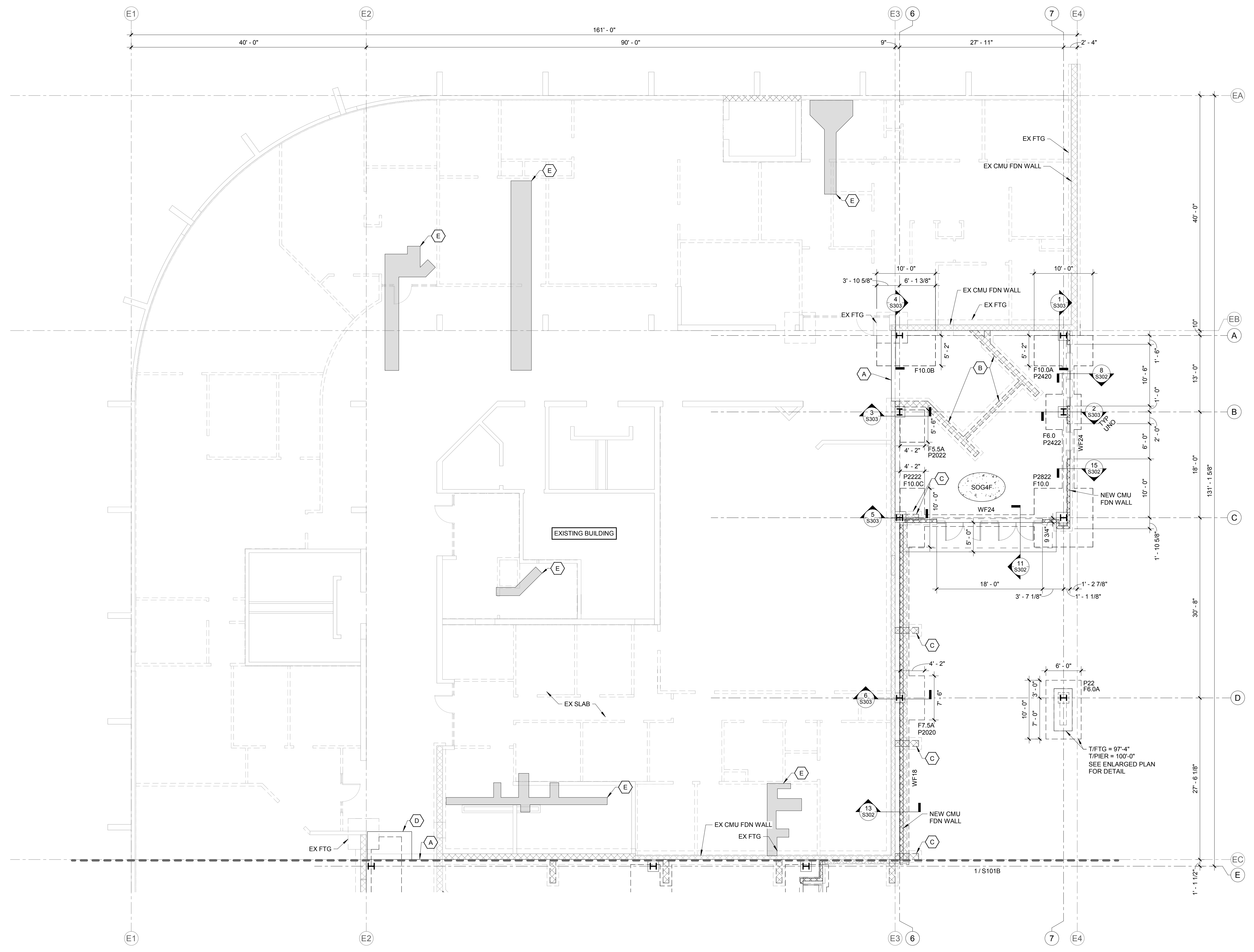
ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

FOUNDATION PLAN -
AREA A

S101A

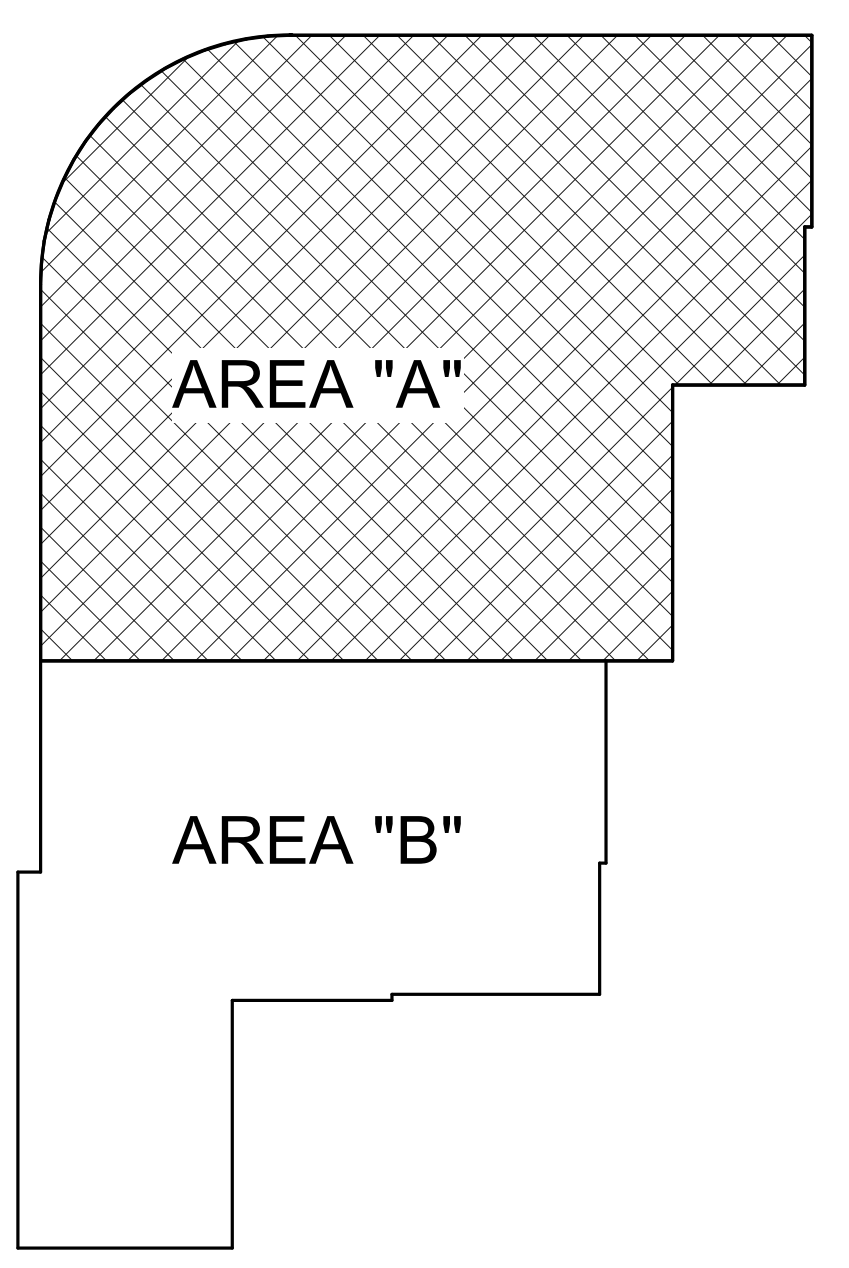


FOUNDATION PLAN AREA A

- 1/ S101A
1/8" = 1'-0"
- GENERAL PLAN NOTES:**
- REFERENCE TOP OF SLAB (T/SLAB) = 100'-0" UNO (U.S.G.S. 640.50)
 - TOP OF INTERIOR FOOTING ELEVATION = 99'-4" UNO.
 - TOP OF INTERIOR PIER ELEVATION = 99'-4" UNO.
 - TOP OF PERIMETER FOOTING ELEVATION = 97'-4" UNO.
 - TOP OF PERIMETER PIER ELEVATION = 99'-4" UNO.
 - REFER TO STRUCTURAL GENERAL NOTES, LEGEND, SCHEDULES, TYPICAL DETAILS, AND SPECIAL INSPECTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
 - SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
 - PROVIDE ADDITIONAL SLAB ON GRADE REINFORCEMENT AT RE-ENTRANT CORNERS PER THE "TYPICAL ADDITIONAL SLAB ON GRADE REINFORCEMENT AT RE-ENTRANT CORNERS" DETAIL.
 - PERIMETER DIMENSIONS ARE TO OUTSIDE FACE OF TURNDOWN OR CMU, UNO.

- KEYED PLAN NOTES:**
- (A) DOWEL NEW SLAB INTO EXISTING 5" SLAB ON GRADE PER "TYPICAL NEW-TO-EXISTING SLAB ON GRADE JOINT DETAIL".
 - (B) DEMOLISH EXISTING CMU FOUNDATION WALL TO 16" BELOW T/SLAB.
 - (C) DEMOLISH EXISTING CMU FOUNDATION WALL AND EXISTING WALL FOOTING COMPLETELY.
 - (D) DEMOLISH EXISTING SLAB AS REQUIRED TO INSTALL NEW FOOTING. NEW SLAB TO MATCH ADJACENT NEW SLAB. DOWEL NEW SLAB INTO EXISTING 5" SLAB ON GRADE PER "TYPICAL NEW-TO-EXISTING SLAB ON GRADE JOINT DETAIL".
 - (E) INFILL SLAB WITH COMPACTED GRANULAR FILL AND NEW SOG TO MATCH EXISTING SLAB THICKNESS PER "TYPICAL NEW-TO-EXISTING SLAB ON GRADE JOINT DETAIL". PROVIDE CONTROL JOINTS PER GENERAL NOTES.

SLAB ON GRADE INFORMATION PROVIDED FOR REFERENCE ONLY. SLAB ON GRADE IS TO BE BID IN FUTURE PACKAGE.



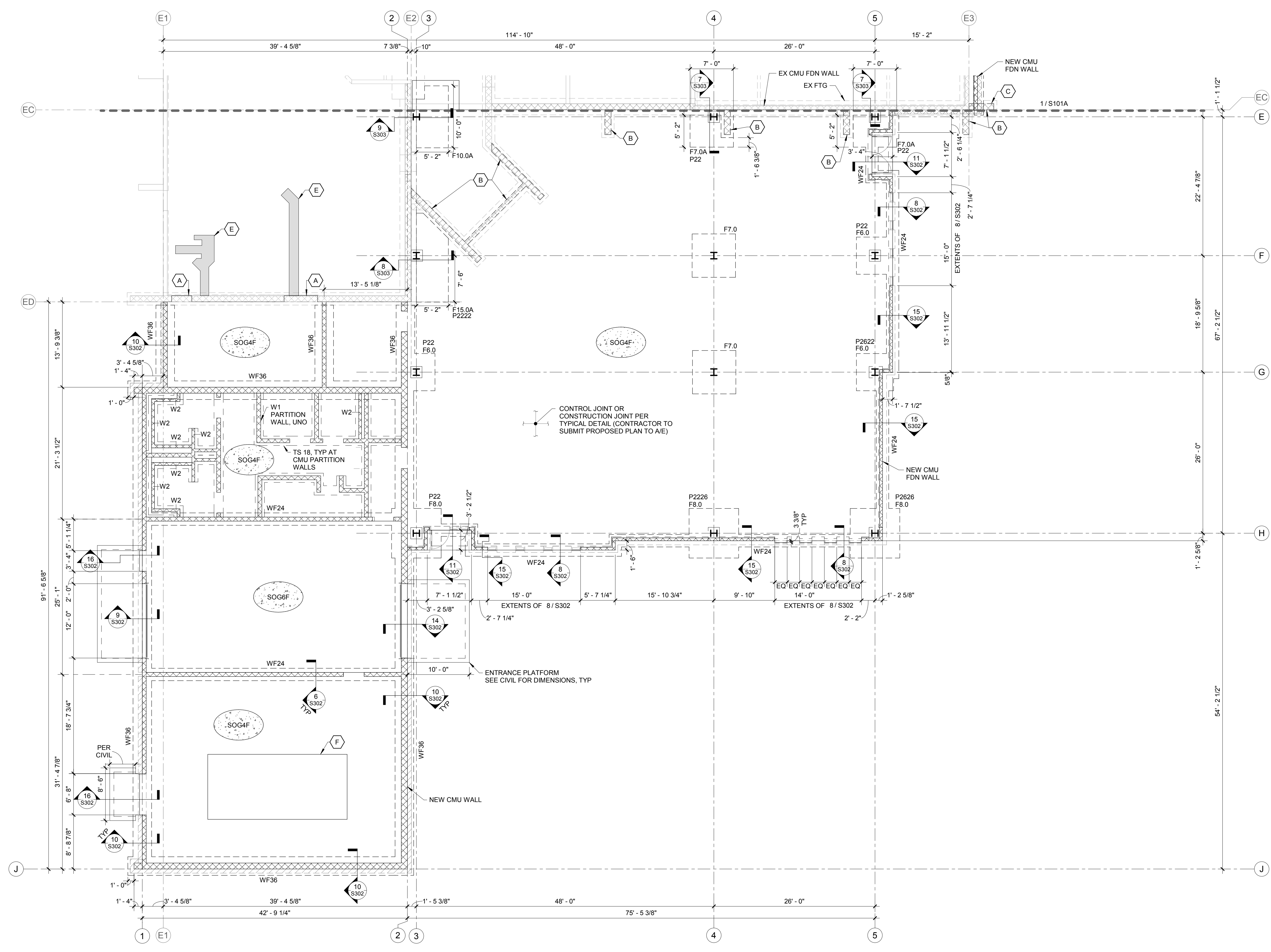
KEY PLAN



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ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



1
S101B
FOUNDATION PLAN AREA B
1/8" = 1'-0"

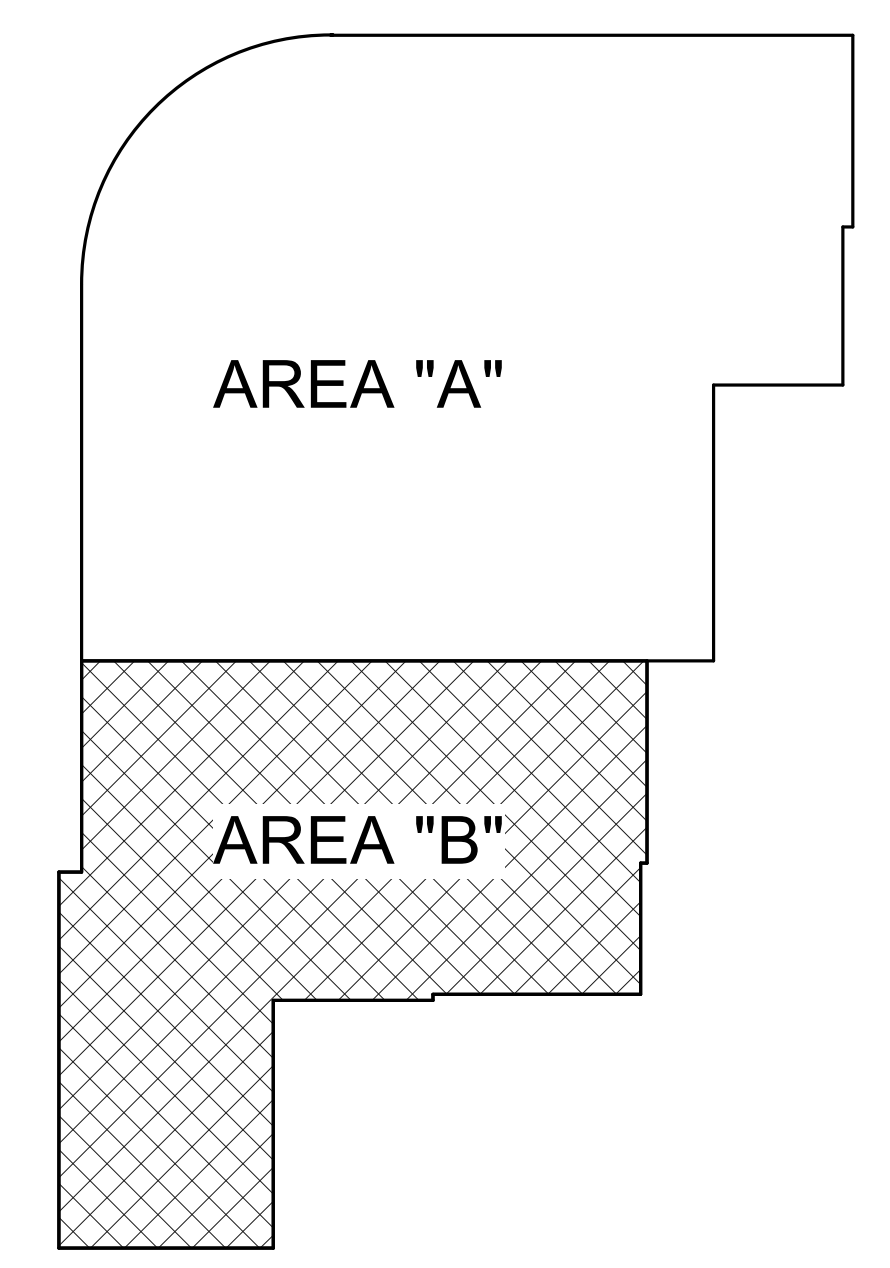
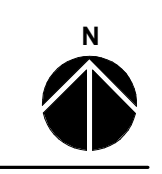
GENERAL PLAN NOTES:

- REFERENCE TOP OF SLAB (T/SLAB) = 100'-0" UNO (U.S.G.S. 640.50)
- TOP OF INTERIOR FOOTING ELEVATION = 99'-4" UNO.
- TOP OF INTERIOR PIER ELEVATION = 99'-4" UNO.
- TOP OF PERIMETER FOOTING ELEVATION = 97'-4" UNO.
- TOP OF PERIMETER PIER ELEVATION = 99'-4" UNO.
- REFER TO STRUCTURAL GENERAL NOTES, LEGEND, SCHEDULES, TYPICAL DETAILS, AND SPECIAL INSPECTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
- SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
- PROVIDE ADDITIONAL SLAB ON GRADE REINFORCEMENT AT RE-ENTRANT CORNERS PER THE "TYPICAL ADDITIONAL SLAB ON GRADE REINFORCEMENT AT RE-ENTRANT CORNERS" DETAIL.
- PERIMETER DIMENSIONS ARE TO OUTSIDE FACE OF TURNDOWN OR CMU, UNO.

KEYED PLAN NOTES:

- DOWEL NEW SLAB INTO EXISTING 5" SLAB ON GRADE PER "TYPICAL NEW-TO-EXISTING SLAB ON GRADE JOINT DETAIL".
- DEMOLISH EXISTING CMU FOUNDATION WALL TO 16" BELOW T/SLAB.
- DEMOLISH EXISTING CMU FOUNDATION WALL AND EXISTING WALL FOOTING COMPLETELY.
- DEMOLISH EXISTING SLAB AS REQUIRED TO INSTALL NEW FOOTING. NEW SLAB TO MATCH ADJACENT NEW SLAB. DOWEL NEW SLAB INTO EXISTING 5" SLAB ON GRADE PER "TYPICAL NEW-TO-EXISTING SLAB ON GRADE JOINT DETAIL".
- INFILL SLAB WITH COMPACTED GRANULAR FILL AND NEW SOG TO MATCH EXISTING SLAB THICKNESS PER "TYPICAL NEW-TO-EXISTING SLAB ON GRADE JOINT DETAIL. PROVIDE CONTROL JOINTS PER GENERAL NOTES.
- HOUSEKEEPING PAD PER TYPICAL DETAIL. COORDINATE SIZE AND LOCATION WITH MECHANICAL.

SLAB ON GRADE INFORMATION PROVIDED FOR REFERENCE ONLY. SLAB ON GRADE IS TO BE BID IN FUTURE PACKAGE.



KEY PLAN

Project Number 2017.01279

FOUNDATION PLAN -
AREA B

S101B



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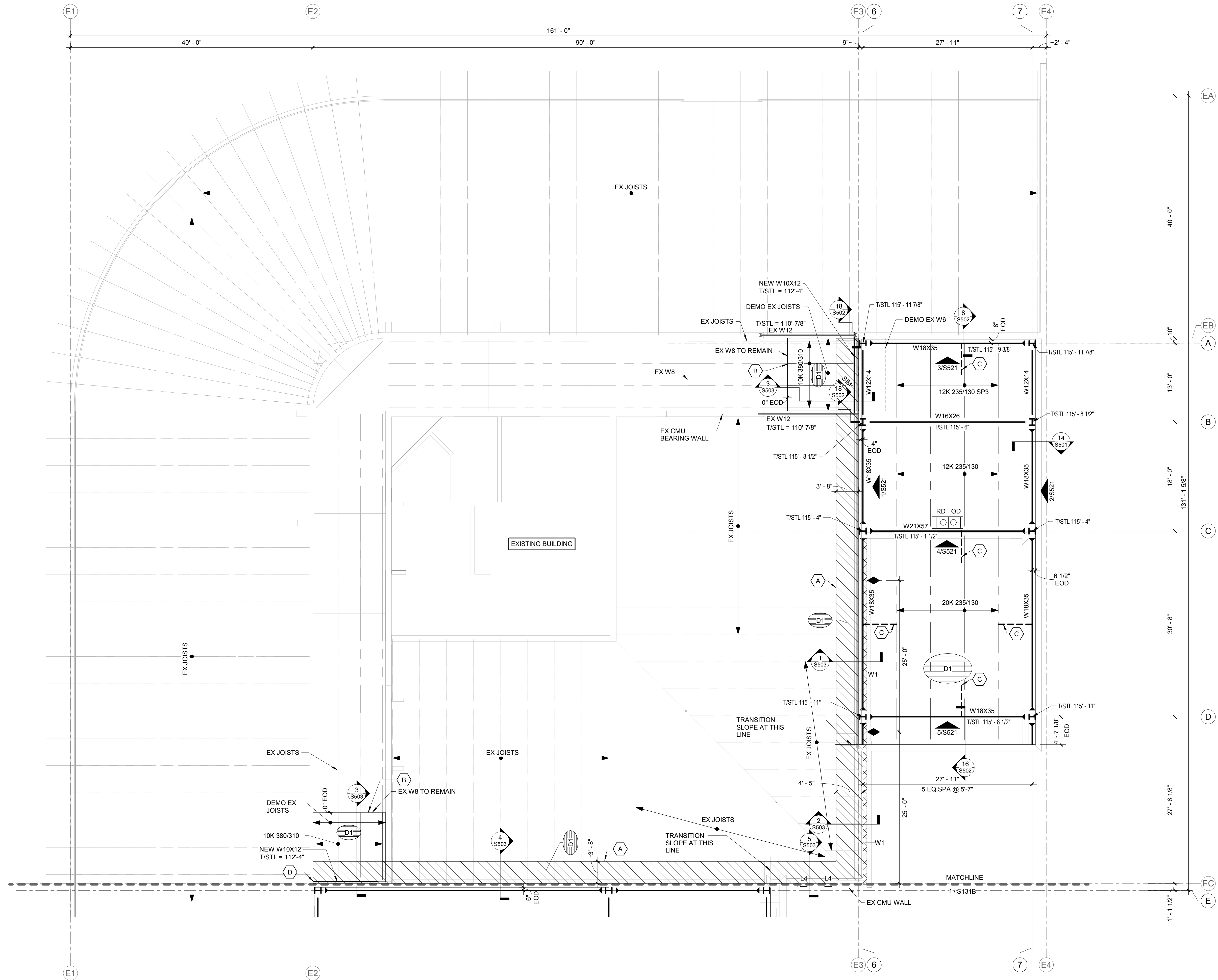
ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

ROOF FRAMING PLAN
- AREA A

S131A



1
S131A ROOF FRAMING PLAN AREA A

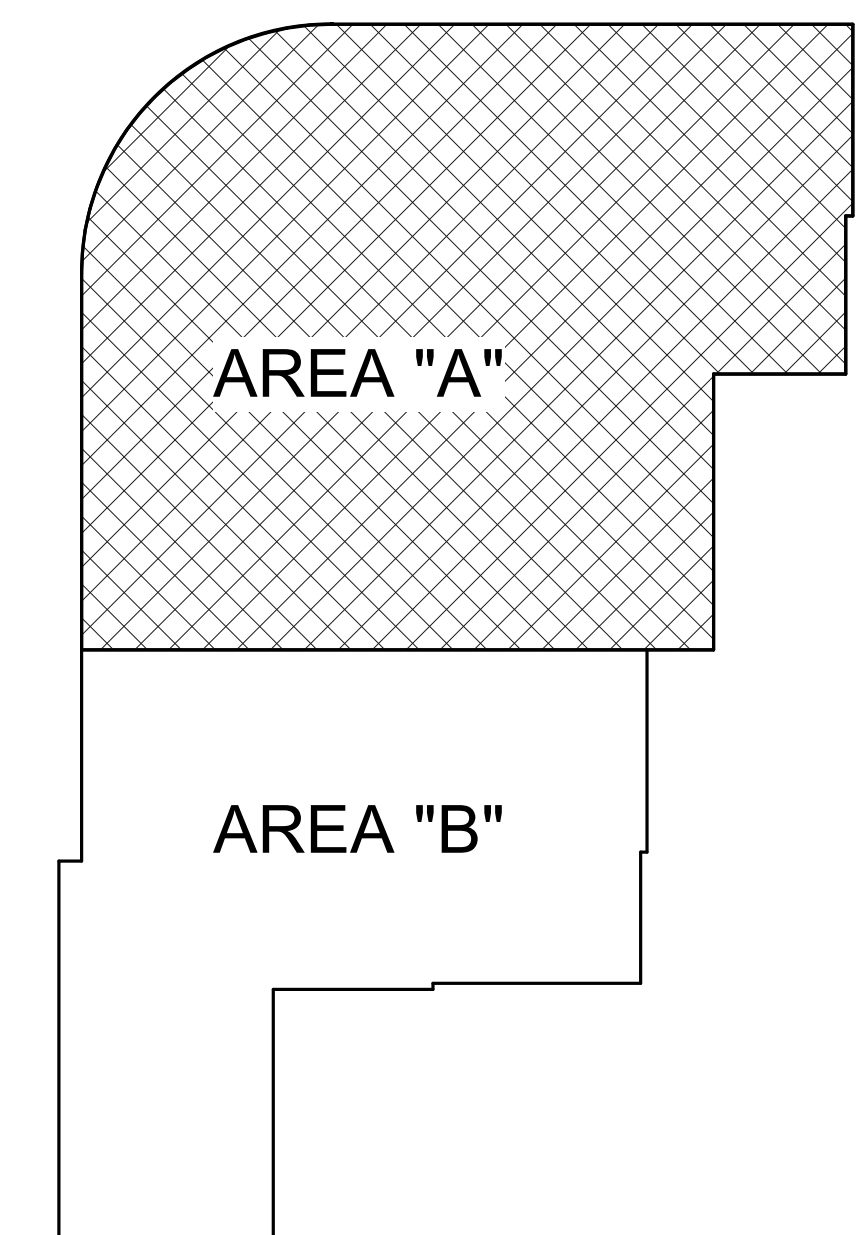
1/8" = 1'-0"

GENERAL PLAN NOTES:

- TOP OF STEEL (T/STL) ELEVATION PER PLAN.
- JOIST BEARING (JBROG) ELEVATION PER PLAN.
- REFER TO STRUCTURAL GENERAL NOTES, LEGEND, SCHEDULES, TYPICAL DETAILS, AND SPECIAL INSPECTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
- SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
- INSTALL BRIDGING IN ACCORDANCE WITH SJI SPECIFICATIONS. BRIDGING TO RUN FULL LENGTH / WIDTH OF BUILDING.
- ALL JOIST SEATS TO BE 2 1/2" DEEP, UNO.
- PROVIDE FRAMED/REINFORCED SUPPORTS FOR ALL ROOF TOP EQUIPMENT, HATCHES, OPENINGS AND ROOF DRAINS PER THE TYPICAL DETAILS. COORDINATE EXACT SIZES AND LOCATIONS OF ALL FRAMING WITH APPLICABLE CONTRACTOR PRIOR TO FABRICATION.

KEYED PLAN NOTES:

- (A) OVERBUILD EXISTING ROOF WITH NEW METAL ROOF DECK. SEE SECTIONS FOR INFORMATION.
- (B) DEMOLISH EX ROOF DECK TO CENTERLINE OF EX W8
- (C) BRACE BOTTOM FLANGE OF OF BEAM PER "BOTTOM FLANGE BRACING AT ROOF" DETAIL
- (D) NEW BEAM TO BEAR ON EXISTING CMU WALL PER "TYPICAL BEAM BEARING ON CMU WALL DETAIL."



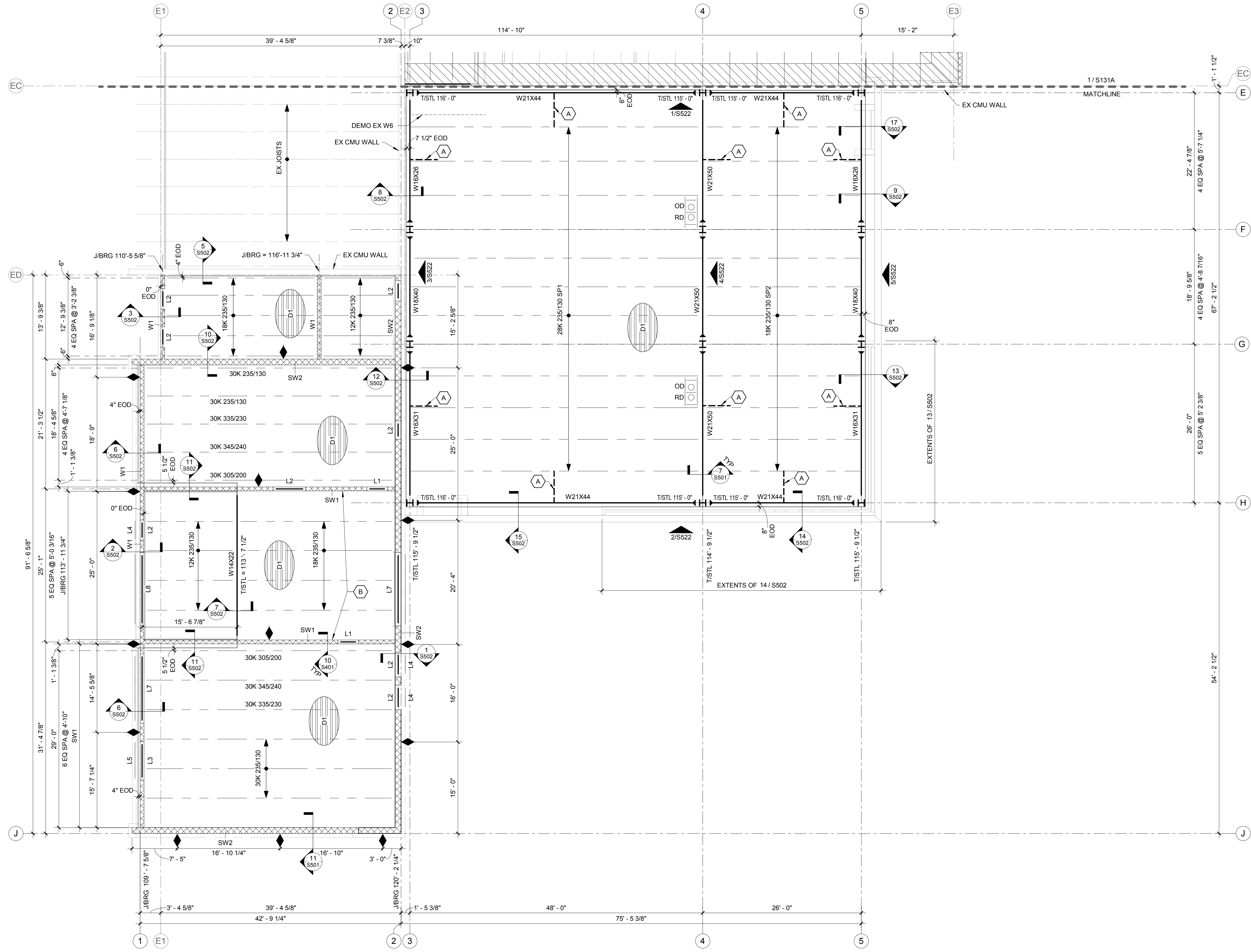
KEY PLAN



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ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



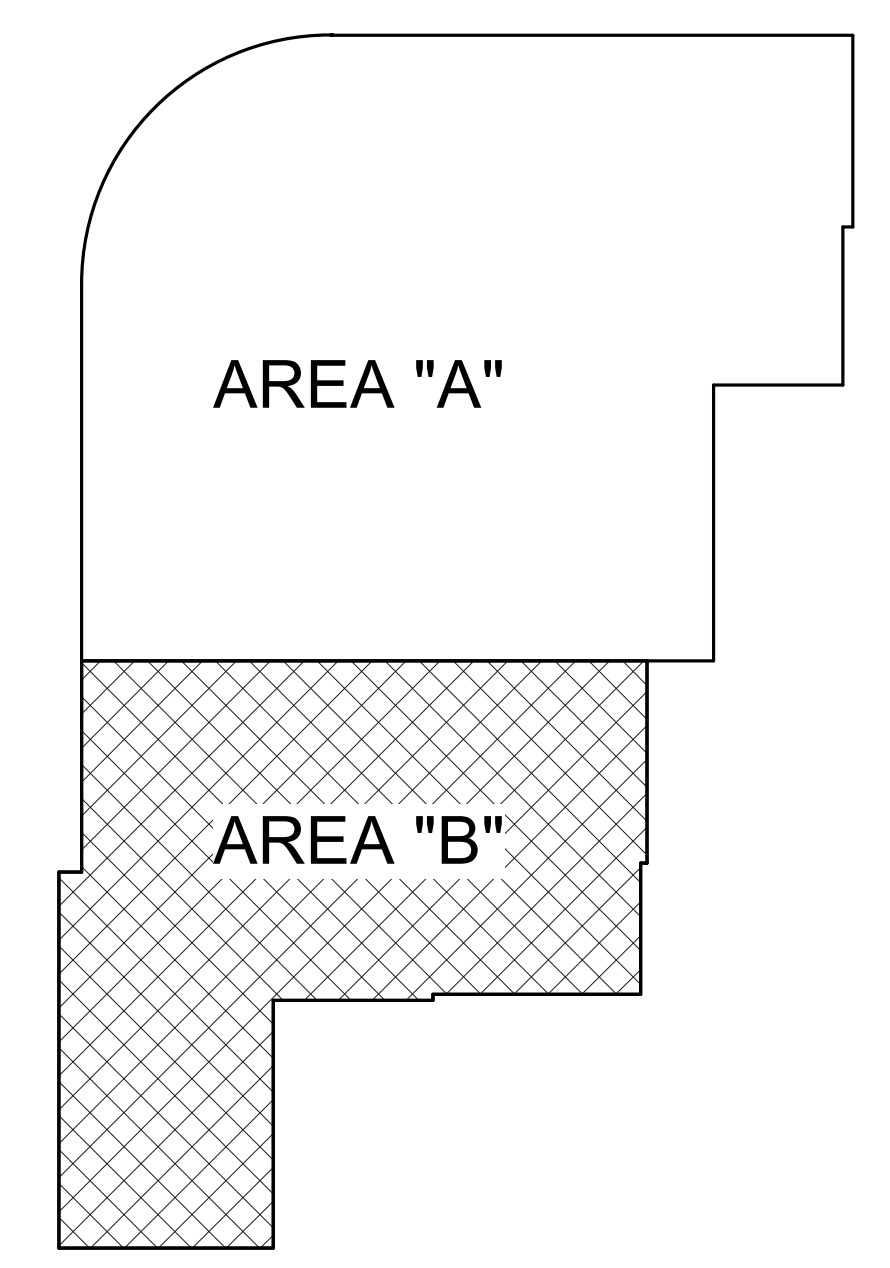
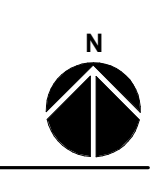
1
S131B
ROOF FRAMING PLAN AREA B
1/8" = 1'-0"

GENERAL PLAN NOTES:

- TOP OF STEEL (T/STL) ELEVATION PER PLAN.
- JOIST BEARING (J/BRG) ELEVATION PER PLAN.
- REFER TO STRUCTURAL GENERAL NOTES, LEGEND, SCHEDULES, TYPICAL DETAILS, AND SPECIAL INSPECTION REQUIREMENTS FOR ADDITIONAL INFORMATION.
- SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
- INSTALL BRIDGING IN ACCORDANCE WITH SJI SPECIFICATIONS. BRIDGING TO RUN FULL LENGTH / WIDTH OF BUILDING.
- ALL JOIST SEATS TO BE 2 1/2" DEEP, UNG.
- PROVIDE FRAME/REINFORCED SUPPORTS FOR ALL ROOF TOP EQUIPMENT, HATCHES, OPENINGS AND ROOF DRAINS PER THE TYPICAL DETAILS. COORDINATE EXACT SIZES AND LOCATIONS OF ALL FRAMING WITH APPLICABLE CONTRACTOR PRIOR TO FABRICATION.

KEYED PLAN NOTES:

- (A) BRACE BOTTOM FLANGE OF OF BEAM PER "BOTTOM FLANGE BRACING AT ROOF" DETAIL.
- (B) PROVIDE L2 LINTELS FOR DUCT PENETRATIONS IN CMU WALLS UP TO 6 FEET IN WIDTH. COORDINATE SIZE AND LOCATION WITH MECHANICAL CONTRACTOR.

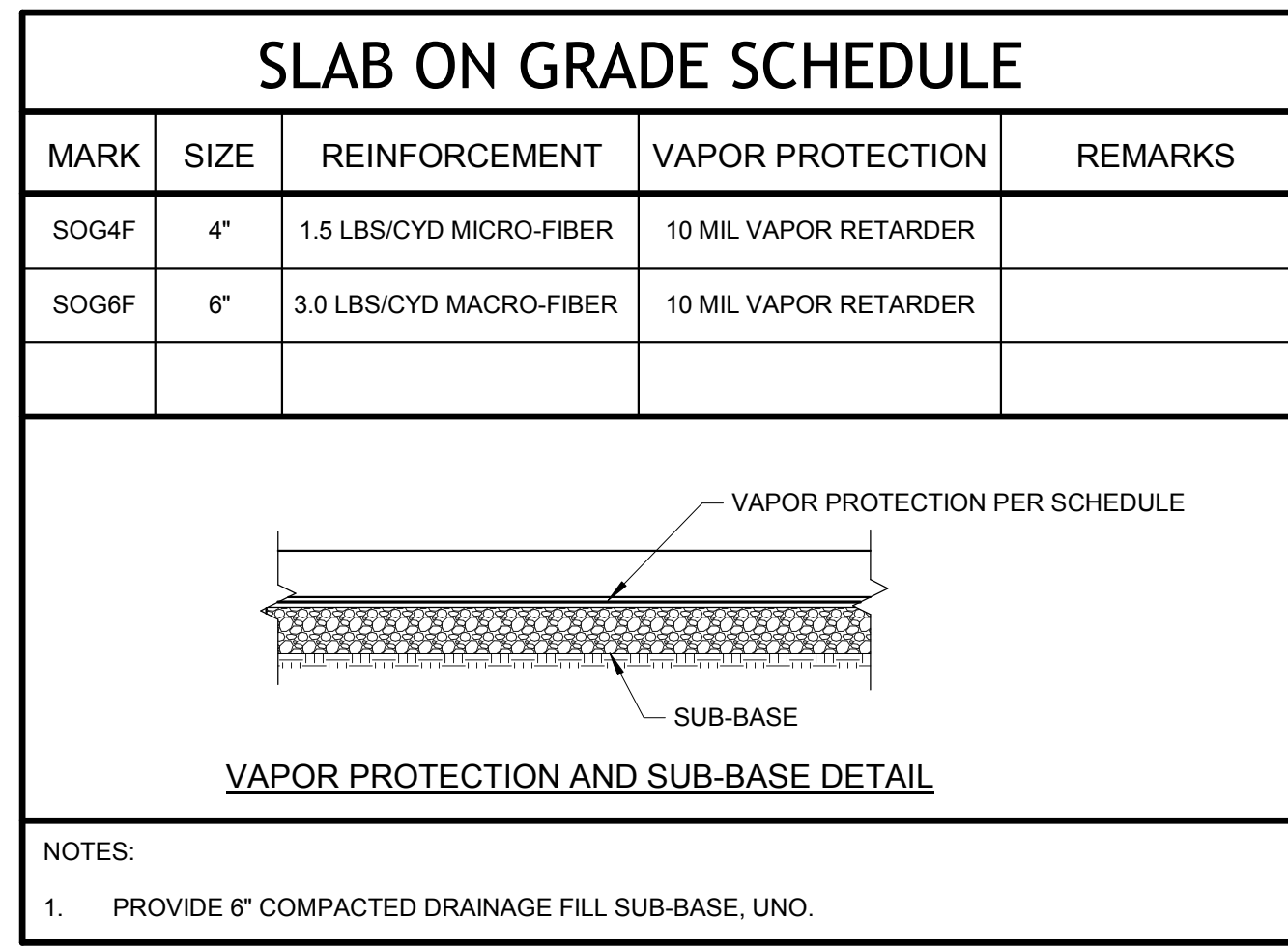


KEY PLAN

CONCRETE MIX SCHEDULE

CONCRETE USAGE	28-DAY COMPRESSIVE STRENGTH (PSI)	MAX CEMENT REPLACEMENT (NOTE 3)	MAXIMUM W/C M RATIO	AIR CONTENT (PERCENT)	MAXIMUM AGGREGATE SIZE (INCHES)	NOTES
FOOTINGS, WALL FOOTINGS	3,000	20%	0.55	0-3	1.5	
PIERS	4,000	20%	0.50	0-3	1	
EXTERIOR RETG WALLS, STOOPS AND PADS	4,000	20%	0.45	6 +/- 1	1	
SLABS ON GRADE (6 INCHES OR LESS)	4,000	20%	0.48	0-3	1	

NOTES:
 1. SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 2. ALL CONCRETE IS NORMAL WEIGHT AND CEMENT IS ASTM C150 TYPE 1, UNO. DO NOT USE LIGHTWEIGHT CONCRETE UNLESS SPECIFICALLY INDICATED.
 3. ACCEPTABLE CEMENT REPLACEMENT MATERIAL, WHERE PERMITTED, SHALL BE FLY ASH, ASTM C618 TYPE C OR F, UNO.
 4. TARGET SLUMP SHALL BE DETERMINED BY THE CONTRACTOR AS NEEDED FOR PROPER PLACEMENT.
 5. WHERE NOTED, BLENDED AGGREGATE WITH ZONE 2 COARSENESS PER ACI 302 IS MANDATORY.
 6. COORDINATE LOCATIONS OF ALL POLISHED CONCRETE SLABS (WHEN USED) AND REVIEW THE CONCRETE MIX REQUIREMENTS WITH THE POLISHED CONCRETE CONTRACTOR PRIOR TO SUBMITTAL OF CONCRETE MIXES. IF THE POLISHED CONCRETE CONTRACTOR REQUESTS TO DEVIATE FROM THE REQUIREMENTS OF THIS SCHEDULE, CONTACT THE STRUCTURAL ENGINEER TO REVIEW THE REQUESTS PRIOR TO SUBMISSION OF THE POLISHED CONCRETE MIXES.



COLUMN FOOTING SCHEDULE

MARK	FTG SIZE	REINFORCEMENT	REMARKS
F5.5A	PER PLAN x 1'-0"	(5) #5 BOT LONG & (7) #5 BOT SHORT	
F6.0	6'-0" x 6'-0" x 1'-0"	(8) #5 EW BOT	
F6.0A	PER PLAN x 1'-0"	(6) #5 BOT LONG & (12) #5 BOT SHORT	
F7.0	7'-0" x 7'-0" x 1'-0"	(8) #6 EW BOT	
F7.0A	PER PLAN x 1'-0"	(6) #5 BOT LONG & (7) #5 BOT SHORT	
F7.5A	PER PLAN x 1'-0"	(5) #5 BOT LONG & (7) #5 BOT SHORT	
F8.0	8'-0" x 8'-0" x 1'-0"	(8) #6 EW BOT	
F10.0	10'-0" x 10'-0" x 1'-0"	(8) #6 EW BOT	
F10.0A	PER PLAN x 1'-0"	(4) #6 BOT LONG & (8) #6 BOT SHORT	
F10.0B	PER PLAN x 1'-0"	(4) #6 BOT LONG & (10) #6 BOT SHORT	
F10.0C	PER PLAN x 1'-0"	(4) #6 BOT LONG & (8) #6 BOT SHORT	
F15.0A	PER PLAN x 1'-0"	(6) #6 BOT LONG & (14) #6 BOT SHORT	

PIER SCHEDULE

MARK	PIER SIZE	PIER VERT REINF	PIER TIES	TYPE	REMARKS
P2020	20" x 20"	(8) #6	#3 @ 12" OC	A	SEE 10 / S310
P2022	20" x 22"	(8) #6	#3 @ 12" OC	A	SEE 5 / S310
P22	22" x 22"	(8) #6	#3 @ 12" OC	A	
P2222	22" x 22"	(8) #6	#3 @ 12" OC	A	SEE: 4 / S310, 9 / S310
P2226	22" x 26"	(10) #6	#3 @ 12" OC	B	SEE 8 / S310
P2420	24" x 20"	(8) #6	#3 @ 12" OC	A	SEE 1 / S310
P2422	24" x 22"	(10) #6	#3 @ 12" OC	B	SEE 2 / S310
P2622	26" x 22"	(10) #6	#3 @ 12" OC	B	SEE 6 / S310
P2626	26" x 26"	(12) #6	#3 @ 12" OC	C	SEE 7 / S310
P2822	28" x 22"	(10) #6	#3 @ 12" OC	B	SEE 3 / S310

TYPES: TYPE A, TYPE B, TYPE C

NOTES:
 1. PROVIDE (3) TIES @ 3" OC AT TOP OF EACH PIER. TIE SIZE TO MATCH TYPICAL PIER TIES. PROVIDE TIES AT SPACING INDICATED IN SCHEDULE FOR REMAINDER OF PIER LENGTH.
 2. REFERENCE TYPICAL COLUMN ON PIER DETAIL FOR ADDITIONAL INFORMATION.

1 S301 N.T.S.

2 S301 N.T.S.

3 S301 N.T.S.

4 S301 N.T.S.

NON-COATED REINFORCING BAR DEVELOPMENT AND SPLICE LENGTHS

BAR SIZE	f'c = 3000 PSI				f'c = 4000 PSI			
	Ld	Ldt	Lt	Lt	Ld	Ldt	Lt	Lt
#3	17	23	23	29	15	20	20	26
#4	22	29	29	38	19	25	25	33
#5	28	37	37	48	24	32	32	41
#6	33	43	43	56	29	38	38	50
#7	48	63	63	82	42	55	55	71
#8	55	72	72	93	48	63	63	82
#9	62	81	81	105	54	71	71	92
#10	69	90	90	117	60	78	78	102
#11	76	99	99	129	66	86	86	112

TABLE VALUES SHALL BE MULTIPLIED BY 1.5 IF THE FOLLOWING CRITERIA ARE NOT MET:

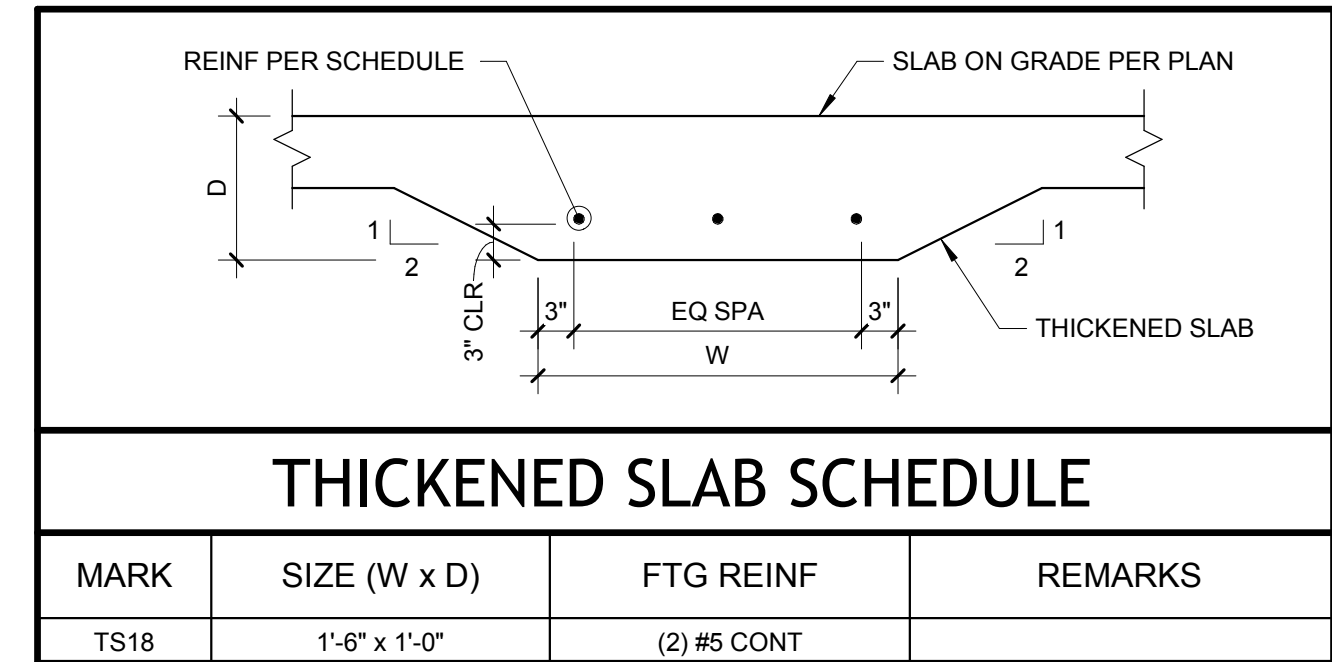
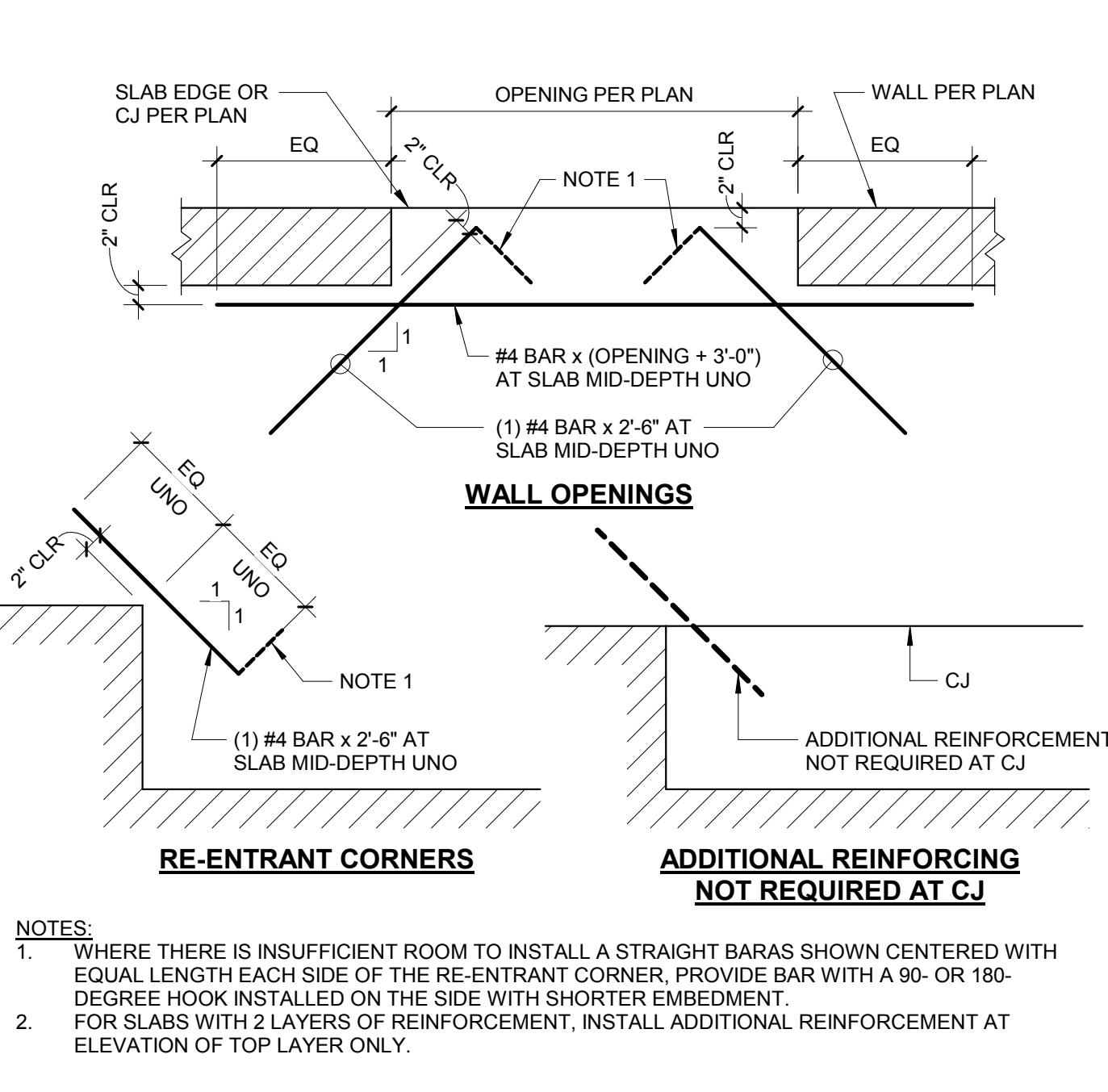
NOTES:
 1. db = NOMINAL BAR DIAMETER
 Ld = TENSION DEVELOPMENT LENGTH
 Ldt = DEVELOPMENT LENGTH OF TOP BARS IN TENSION
 Lt = TENSION LAP SPLICE LENGTH
 Ldt = TENSION LAP SPLICE LENGTH OF TOP BARS
 Lcb = COMPRESSION DEVELOPMENT LENGTH
 Lc = TIED COLUMN LAP SPLICE IN COMPRESSION
 Lcs = SPIRAL COLUMN LAP SPLICE IN COMPRESSION
 2. REBAR DEVELOPMENT/SPLICE LENGTHS ARE BASED ON ACI 318. REINFORCEMENT YIELD STRENGTH, Fy = 60 KSI.
 3. *TOP BARS* = HORIZONTAL BEAM, MAT. OR SLAB REINFORCING WITH MORE THAN 12" CAST BELOW.
 4. ALL SPLICES SHALL BE TENSION SPLICES, UNO.
 5. LARGER DIAMETER SPLICE LENGTHS GOVERN AT BAR SIZE TRANSITIONS.
 6. FOR LIGHTWEIGHT CONCRETE, MULTIPLY TABLE VALUES BY 1.33, UNO.

SLAB ON GRADE FLATNESS / LEVELNESS SCHEDULE

CLASSIFICATION	OVERALL FF	OVERALL FL	MIN LOCAL FF	MIN LOCAL FL
CONVENTIONAL	20	15	15	10
MODERATELY FLAT	25	20	20	15
FLAT	35	25	25	15
VERY FLAT	45	30	35	25
SUPER FLAT	60	40	40	25

FLOOR TYPE / LOCATION	REQUIRED SLAB
EXPOSED WAREHOUSE, MANUFACTURING AREAS, UNO	FLAT
EXPOSED UTILITY/MECHANICAL AREAS, UNO	MODERATELY FLAT
FLOORS WITH CARPET, VCT FINISH, UNO	MODERATELY FLAT
FLOORS WITH POLISHED CONCRETE FINISH	FLAT
TILE UP TO 16" LONG DIMENSION, >=1/4" GROUT JOINTS	FLAT
TILE UP TO 16" LONG DIMENSION, 3/16" GROUT JOINTS	VERY FLAT
TILE UP TO 16" LONG DIMENSION, 1/8" GROUT JOINTS	SUPER FLAT
TILE >16" TO <36" LONG DIMENSION, >=1/4" GROUT JOINTS	VERY FLAT
TILE >16" TO <36" LONG DIMENSION, <1/4" GROUT JOINTS	SUPER FLAT
TILE >36" LONG DIMENSION	SUPER FLAT

NOTES:
 1. GENERAL CONTRACTOR SHALL REVIEW ALL FLOOR FINISH REQUIREMENTS FOR THE PROJECT AND PROVIDE CONCRETE SLAB SURFACE FINISHES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFIED FLOOR FINISH MATERIALS. WHERE TOLERANCES FOR THE FLOOR FINISH MATERIALS DIFFER FROM THIS SCHEDULE, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
 2. GENERAL CONTRACTOR SHALL COORDINATE WITH THE FINISH FLOORING SUPPLIER TO PROVIDE ALL NECESSARY REPAIR, GRINDING, AND / OR LEVELING OF THE CONCRETE SLAB TO ACCOMMODATE ALL FLOOR FINISHES PRIOR TO INSTALLATION OF FINISH MATERIALS WITH NO ADDITIONAL COST TO THE PROJECT.

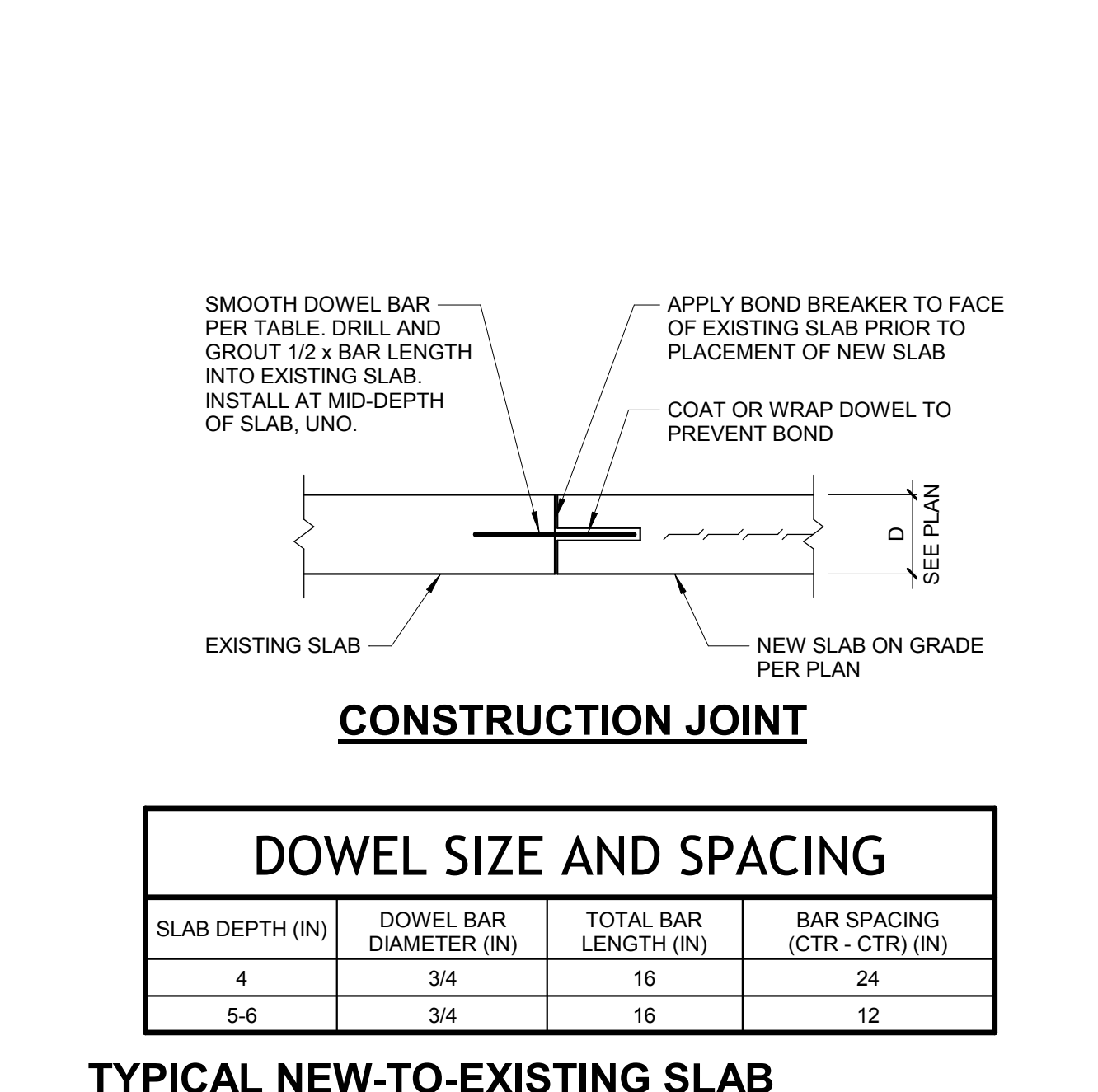
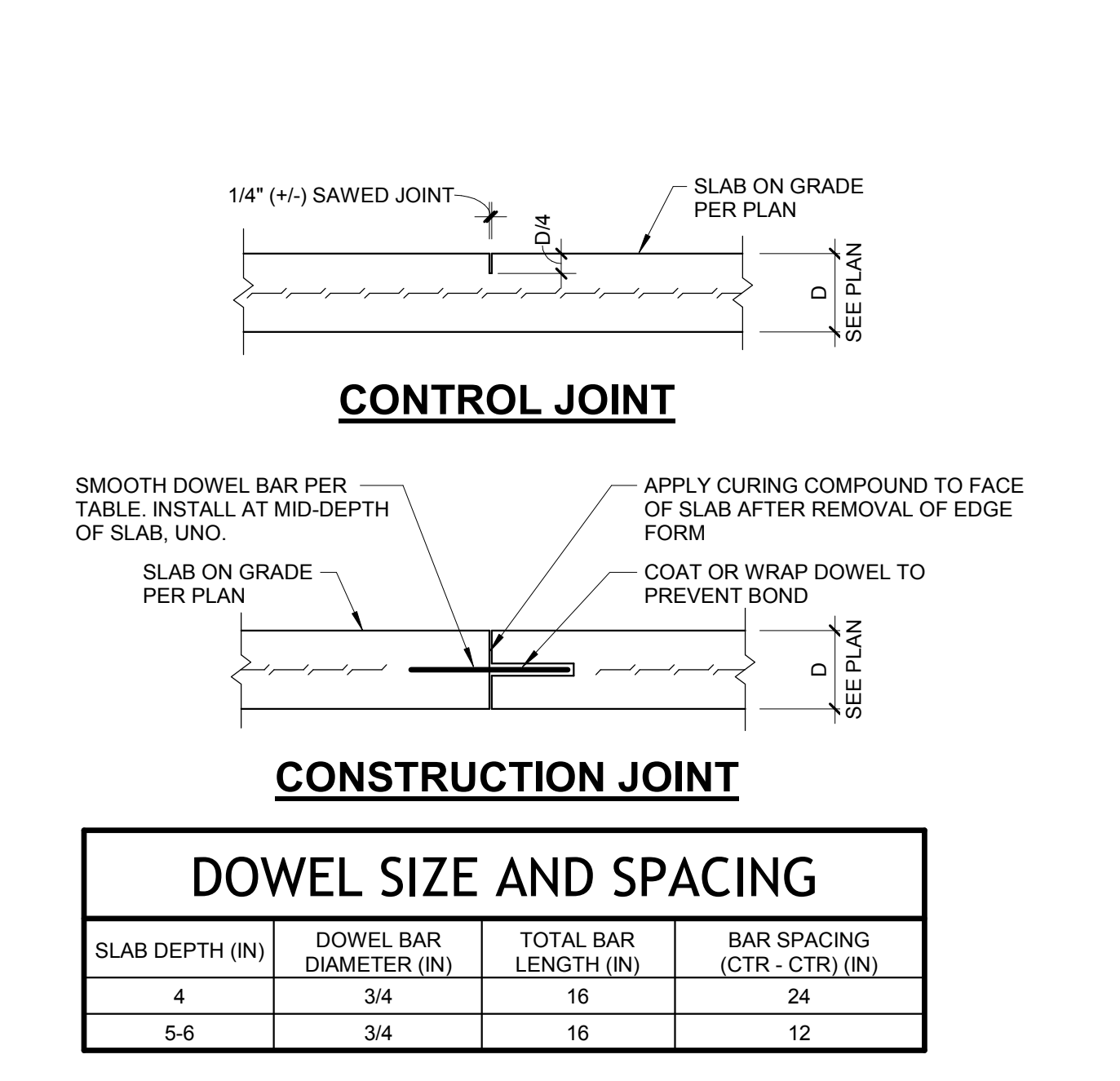
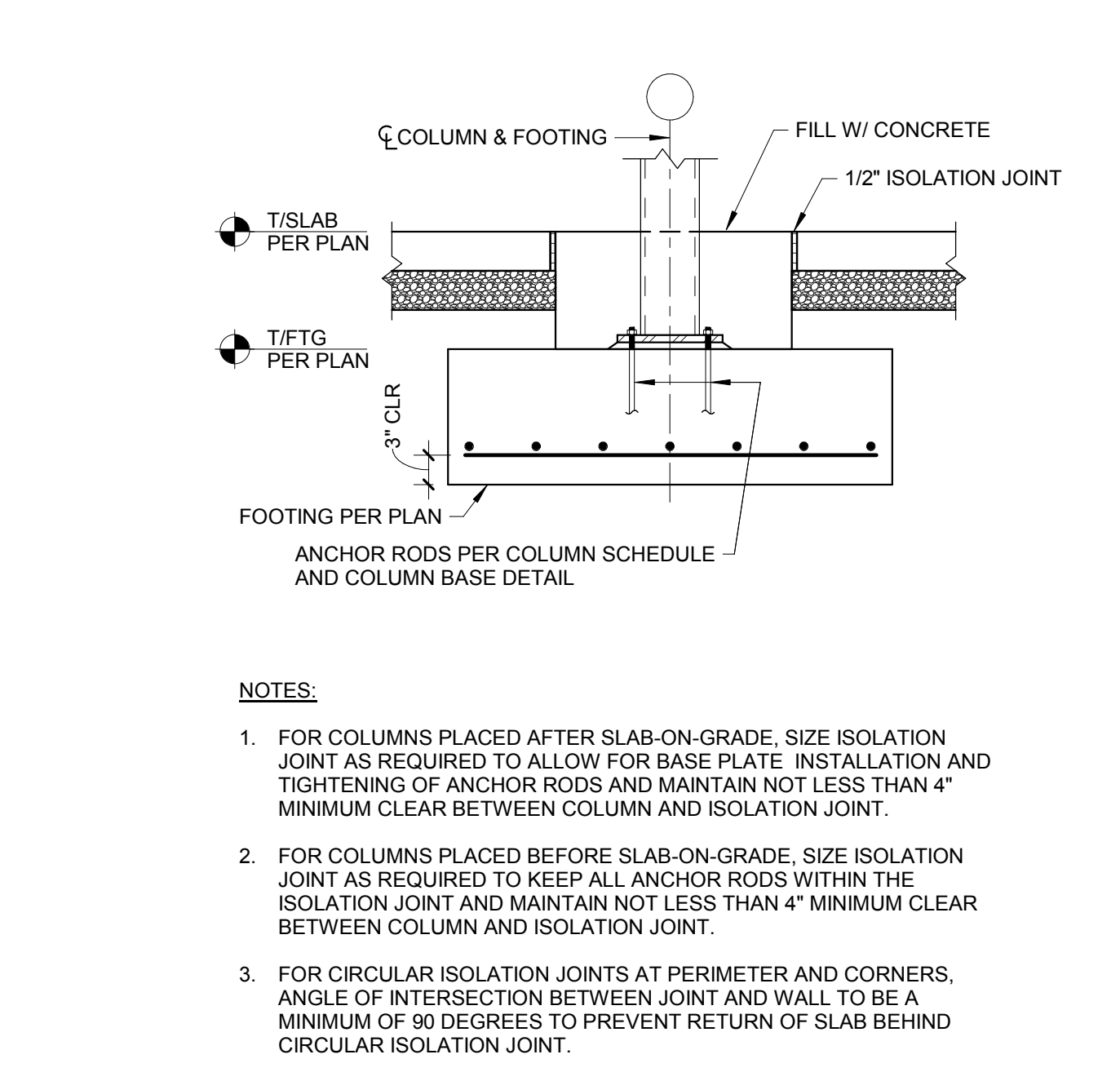
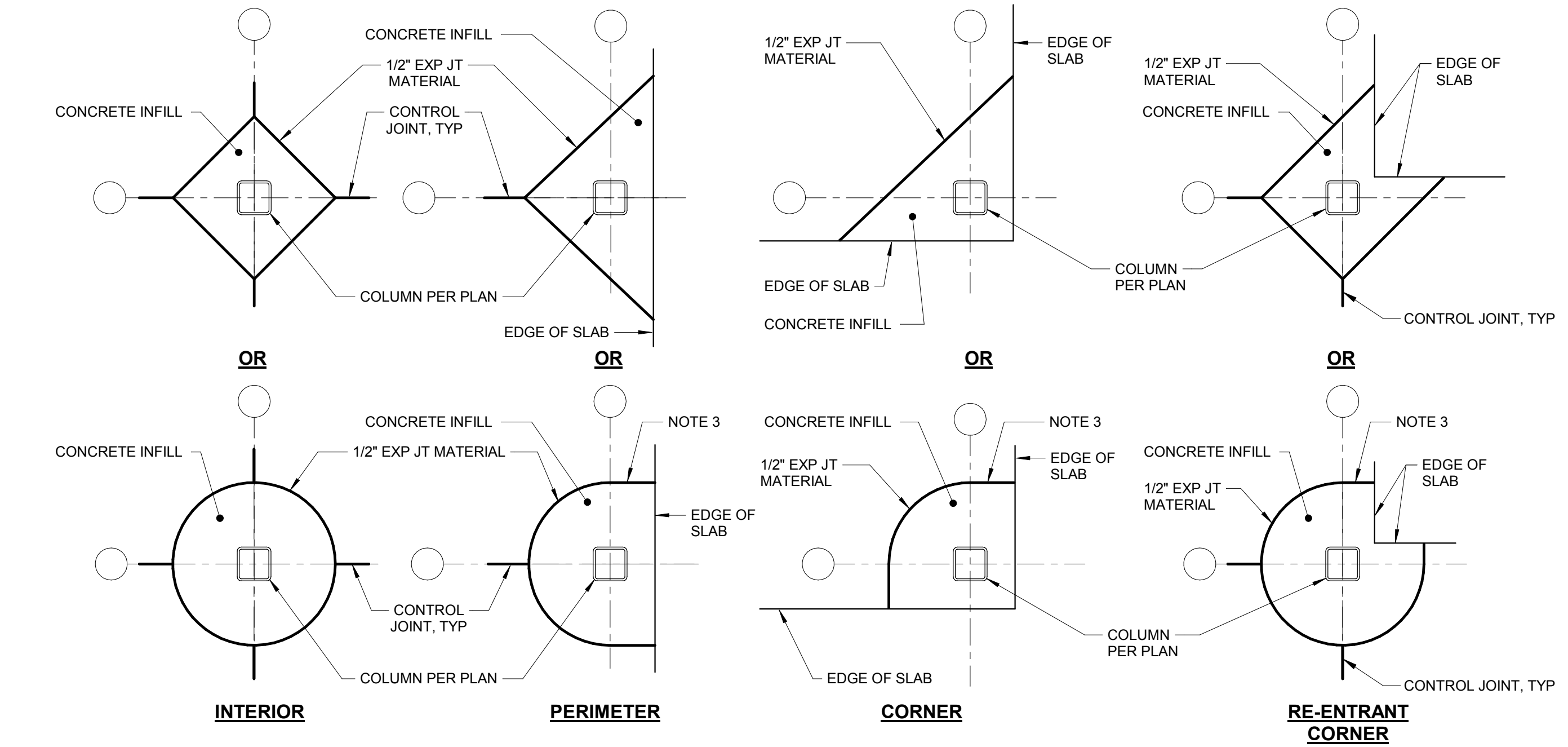


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6 S301 N.T.S.

7 S301 N.T.S.

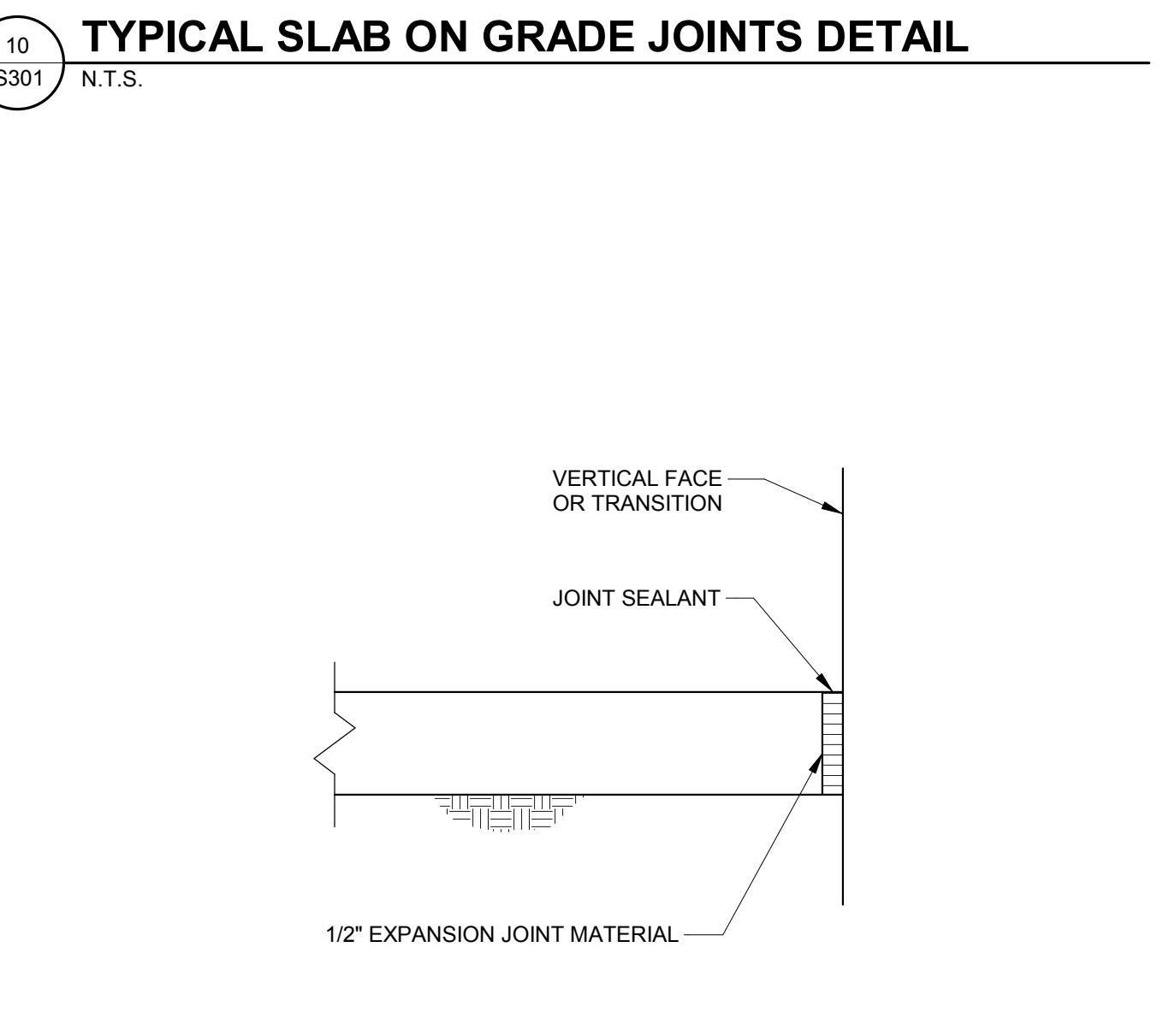
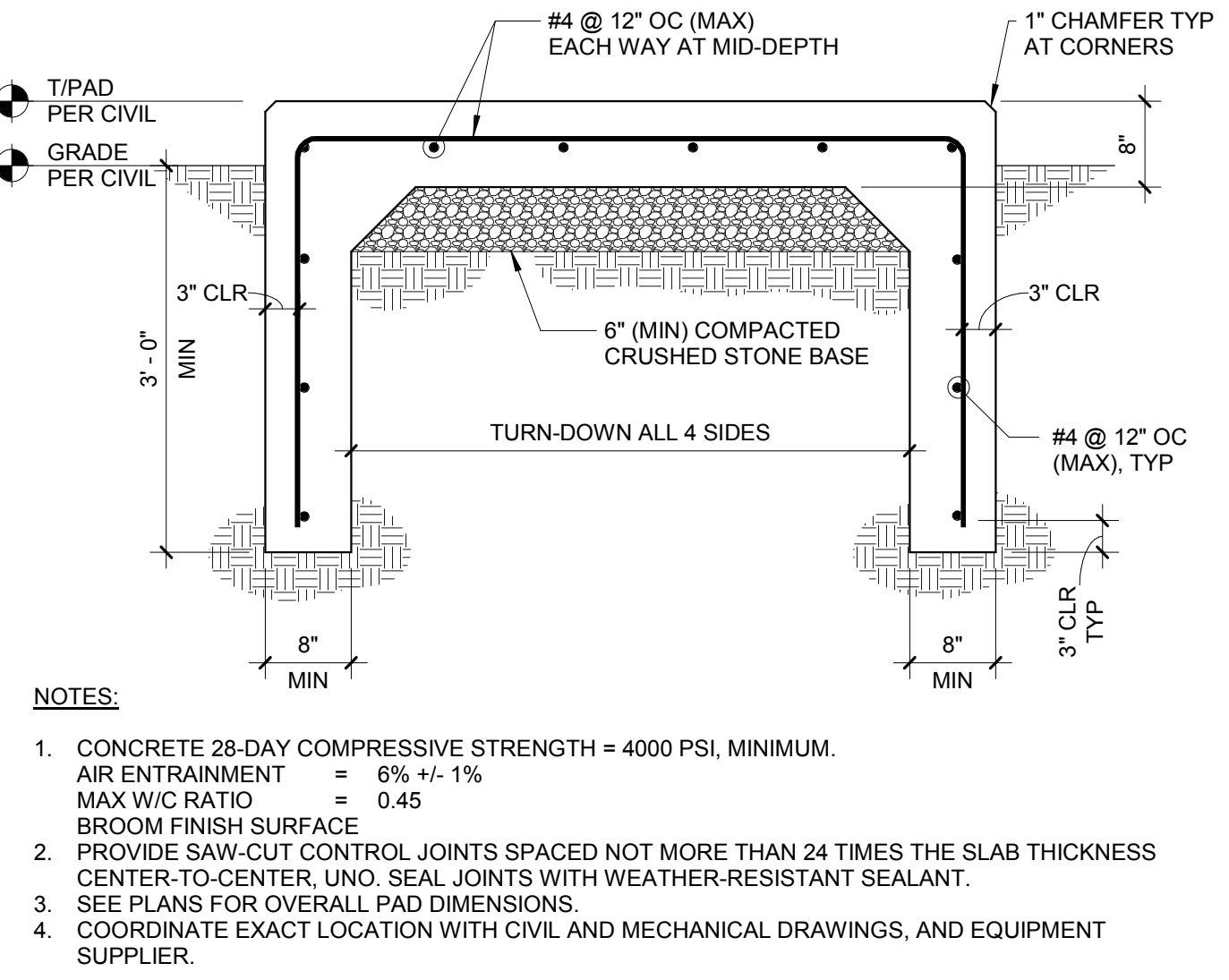
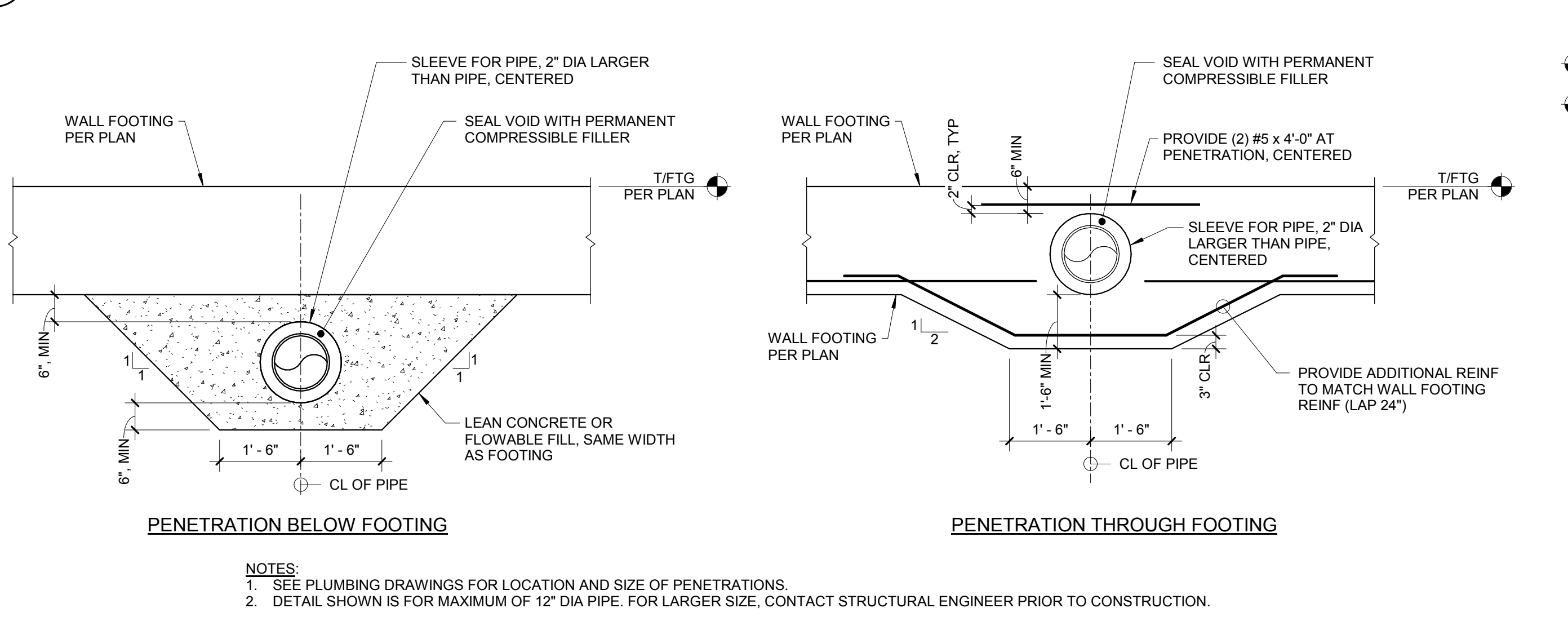
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9 S301 N.T.S.

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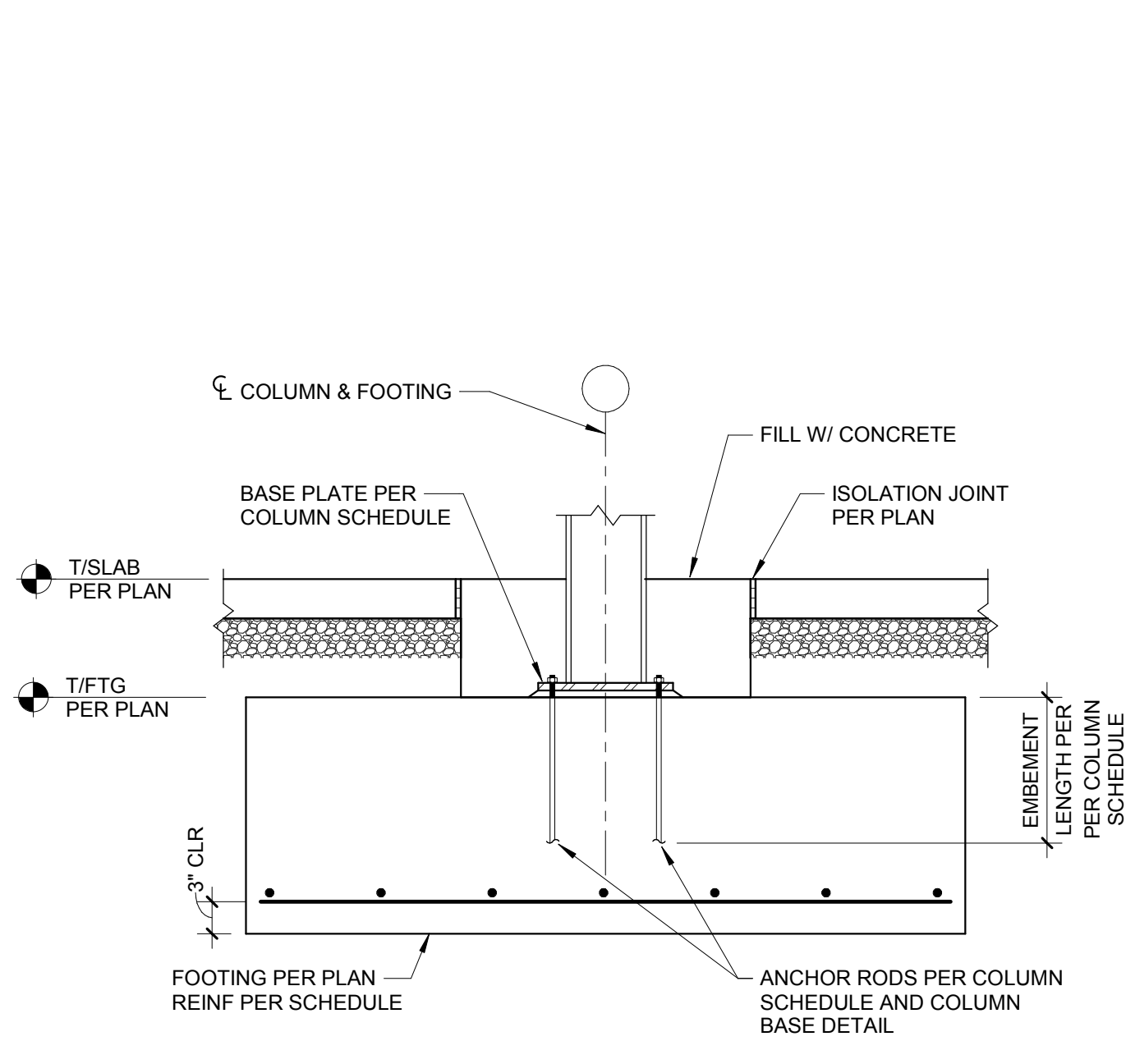
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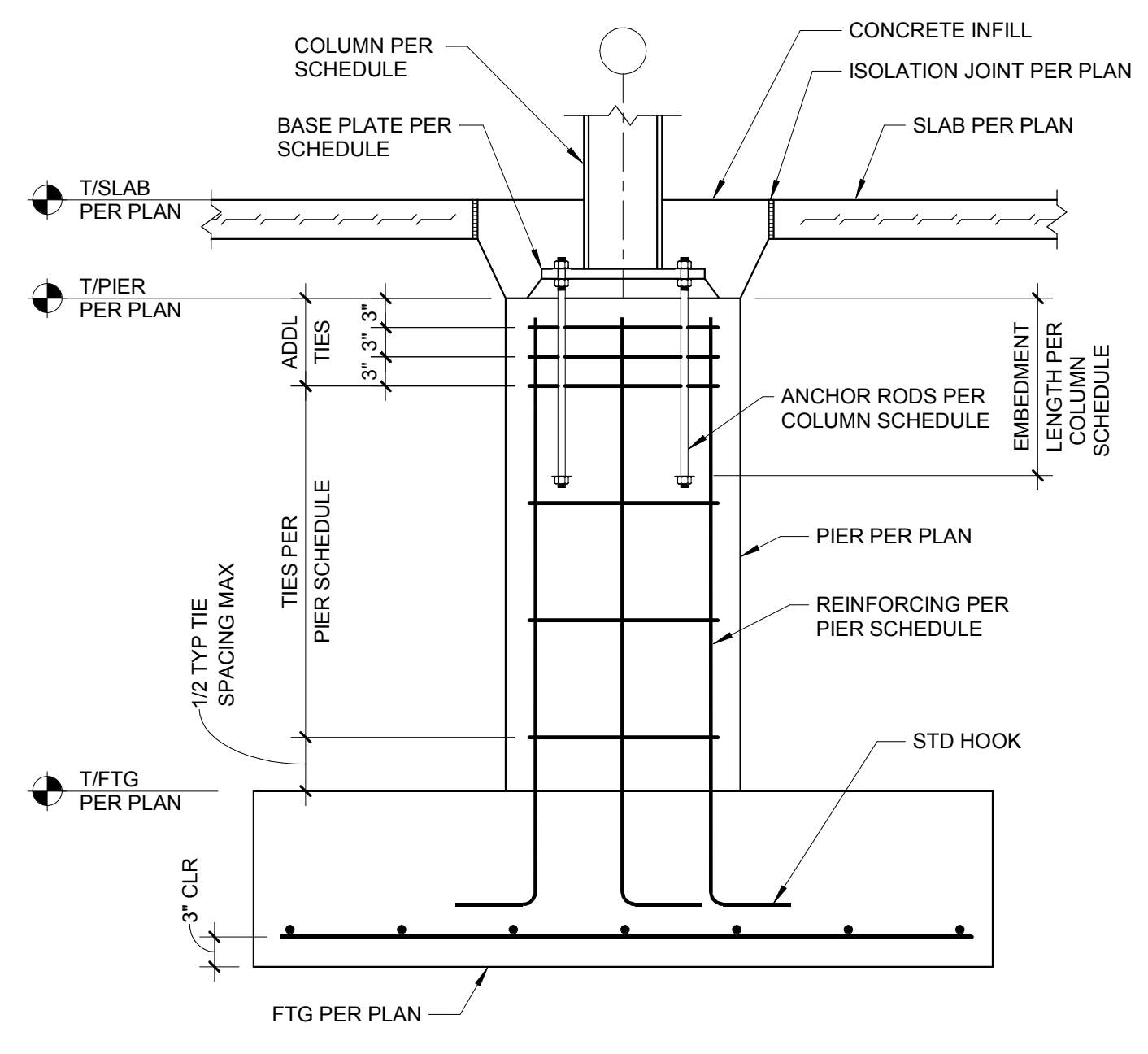
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13 S301 N.T.S.

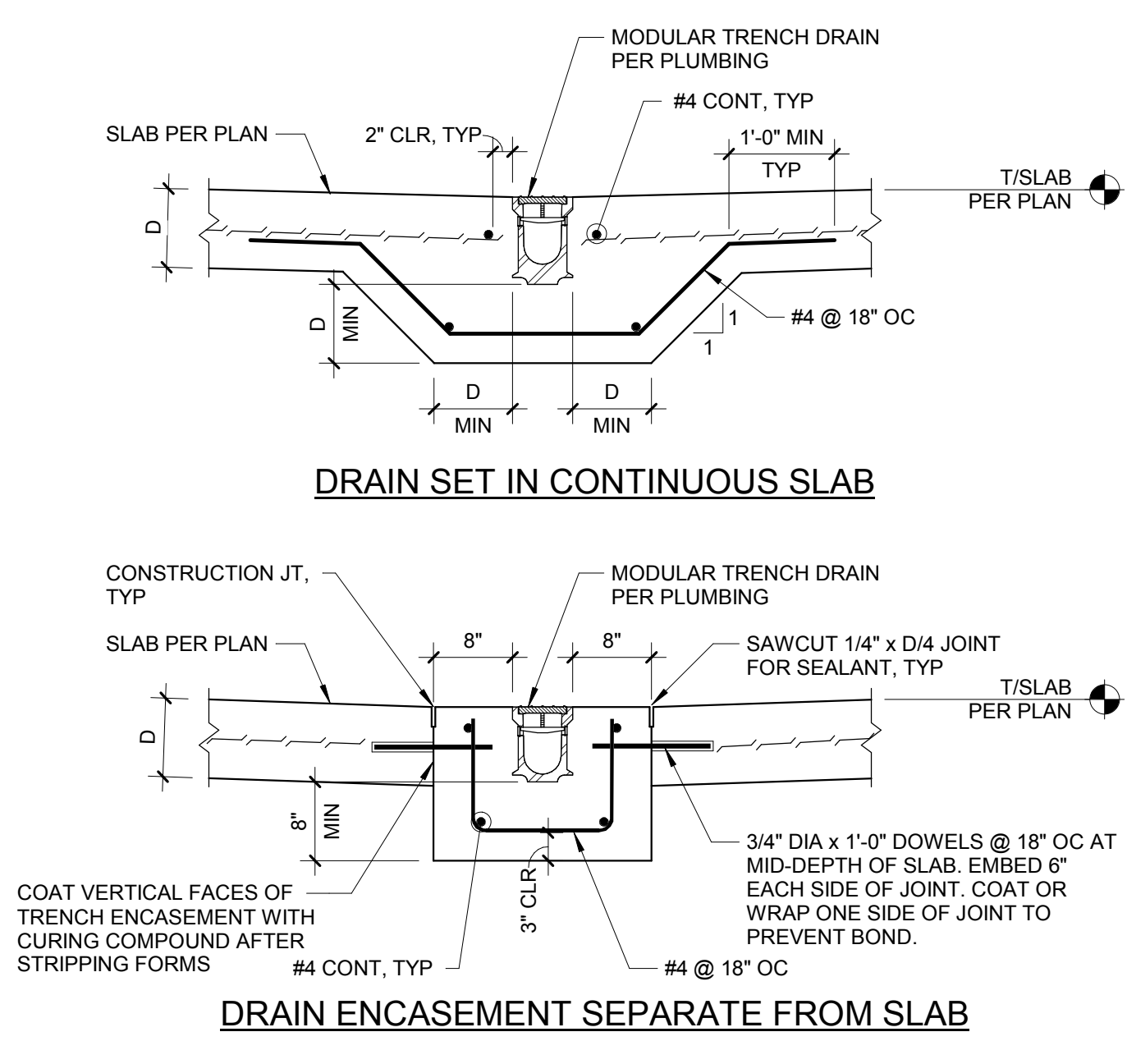
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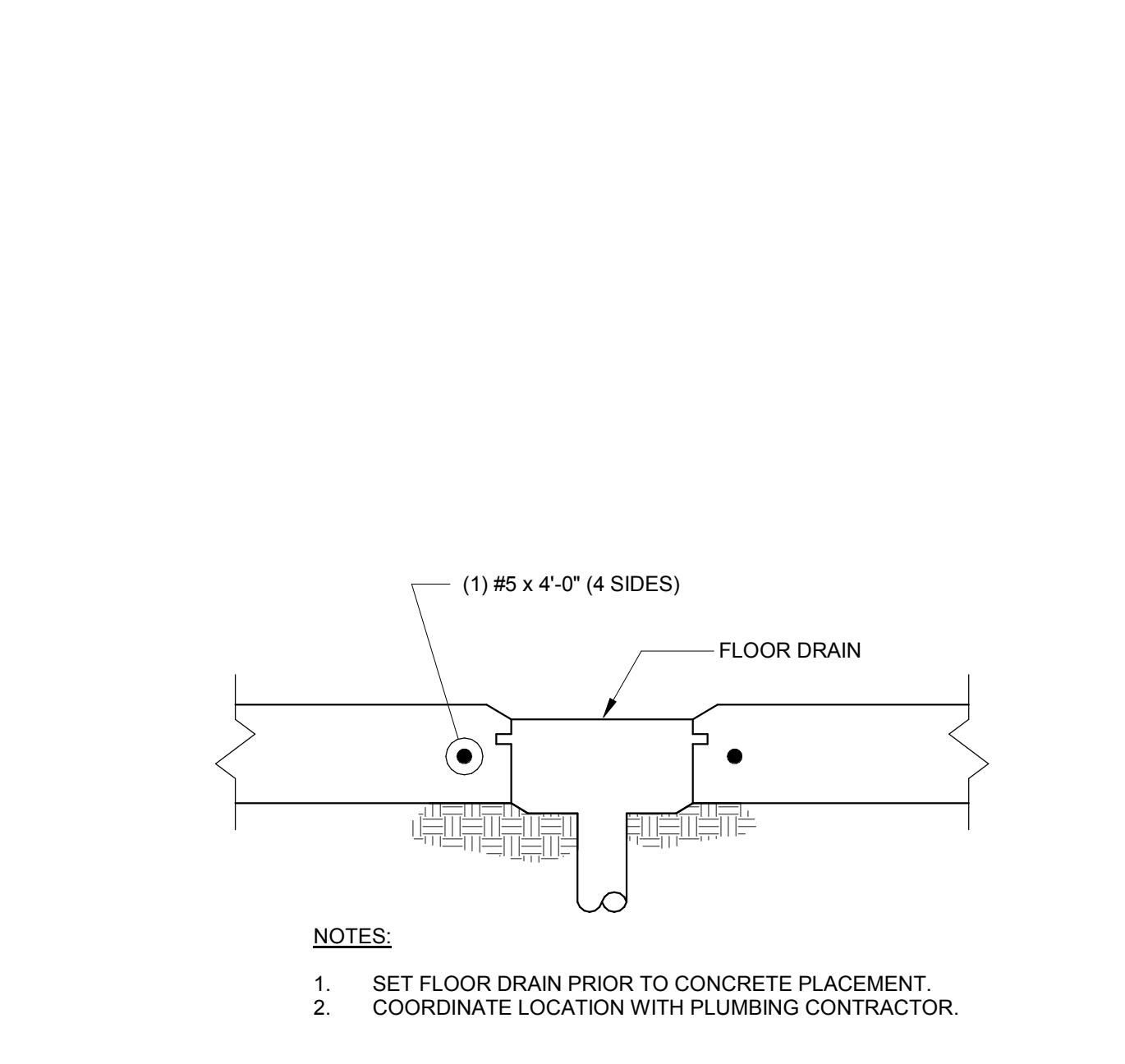
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TYPICAL COLUMN ON FOOTING DETAIL



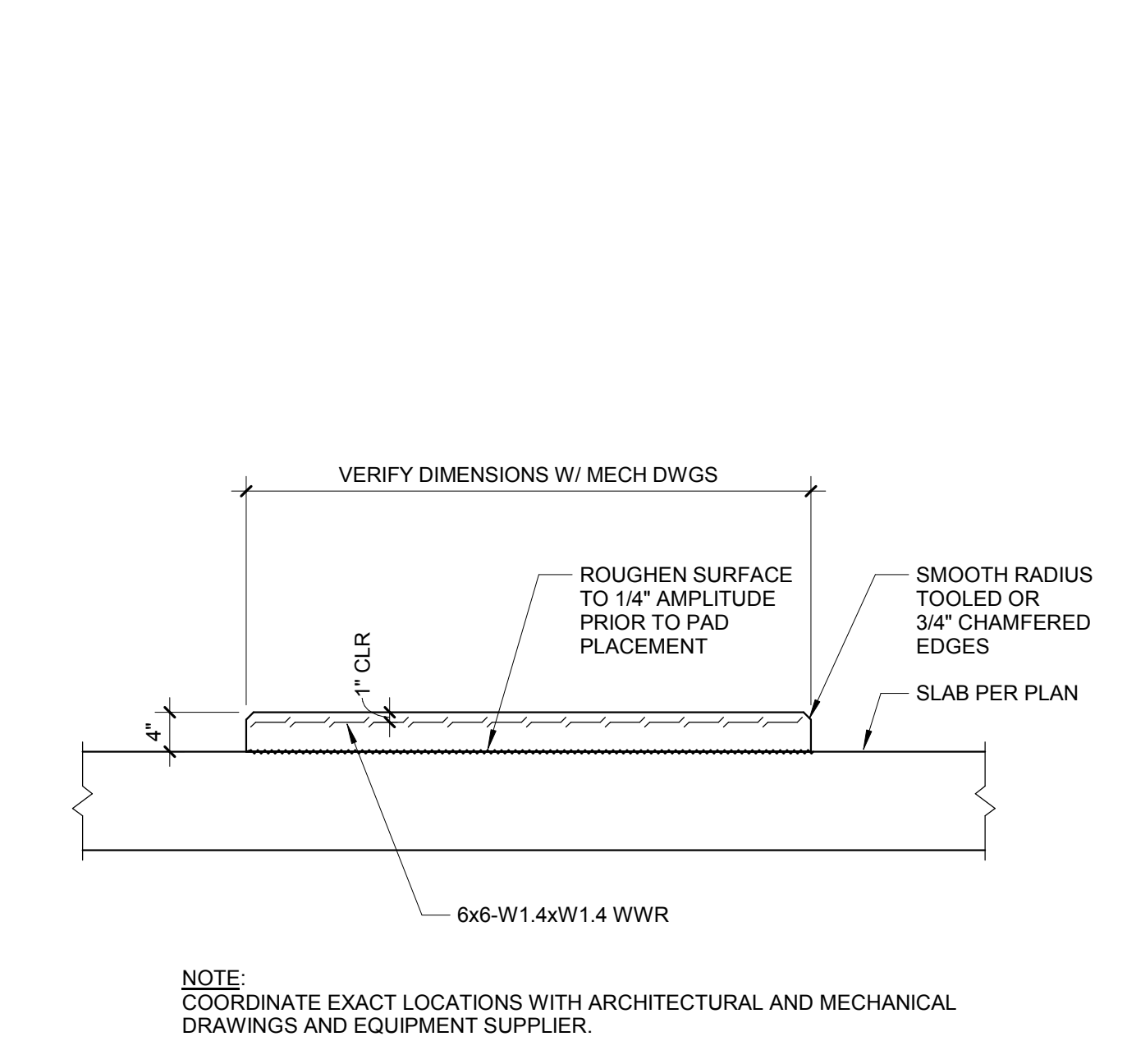
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TYPICAL COLUMN ON PIER DETAIL



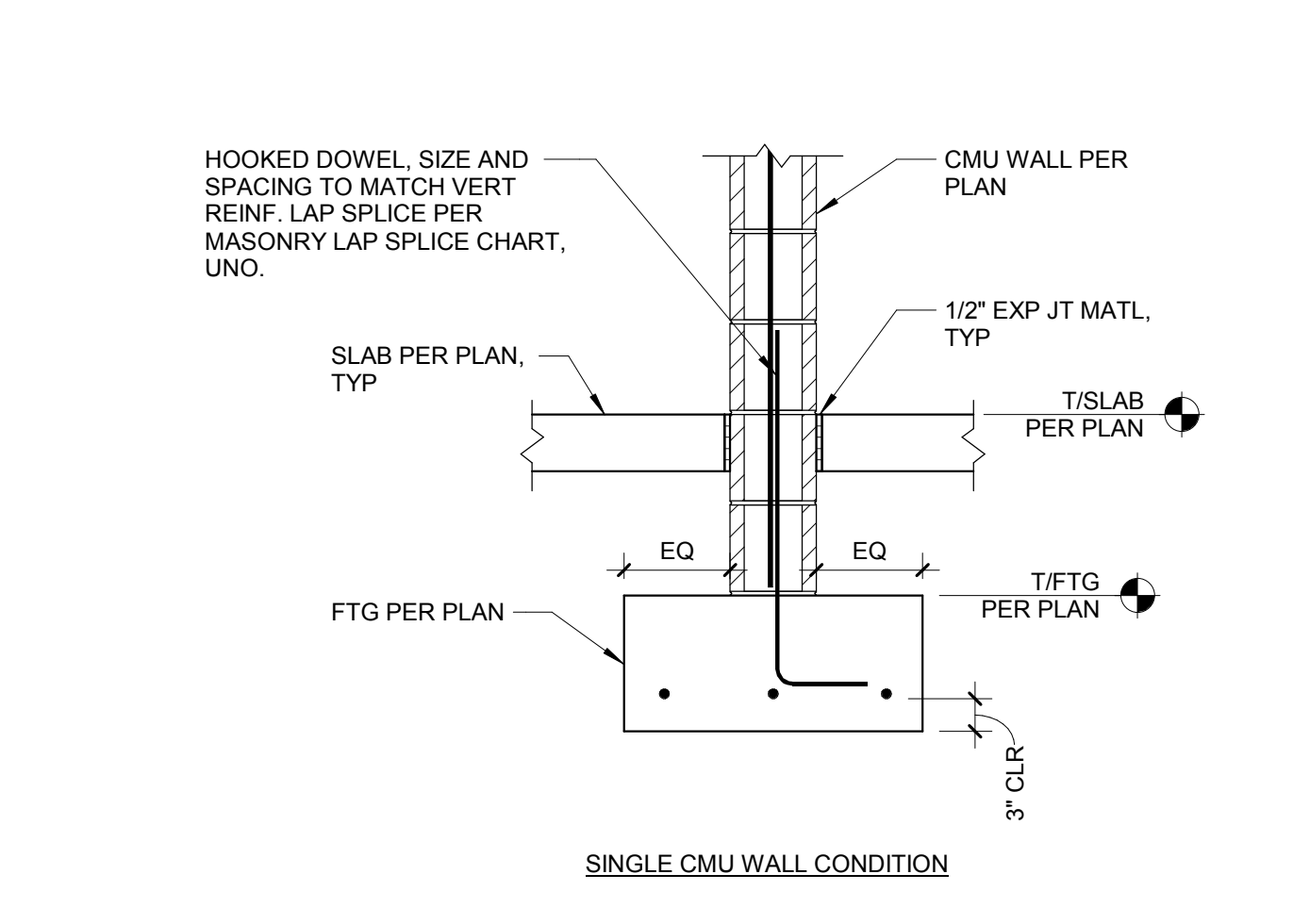
3 S302 N.T.S.
TYPICAL SECTION AT TRENCH DRAIN DETAIL



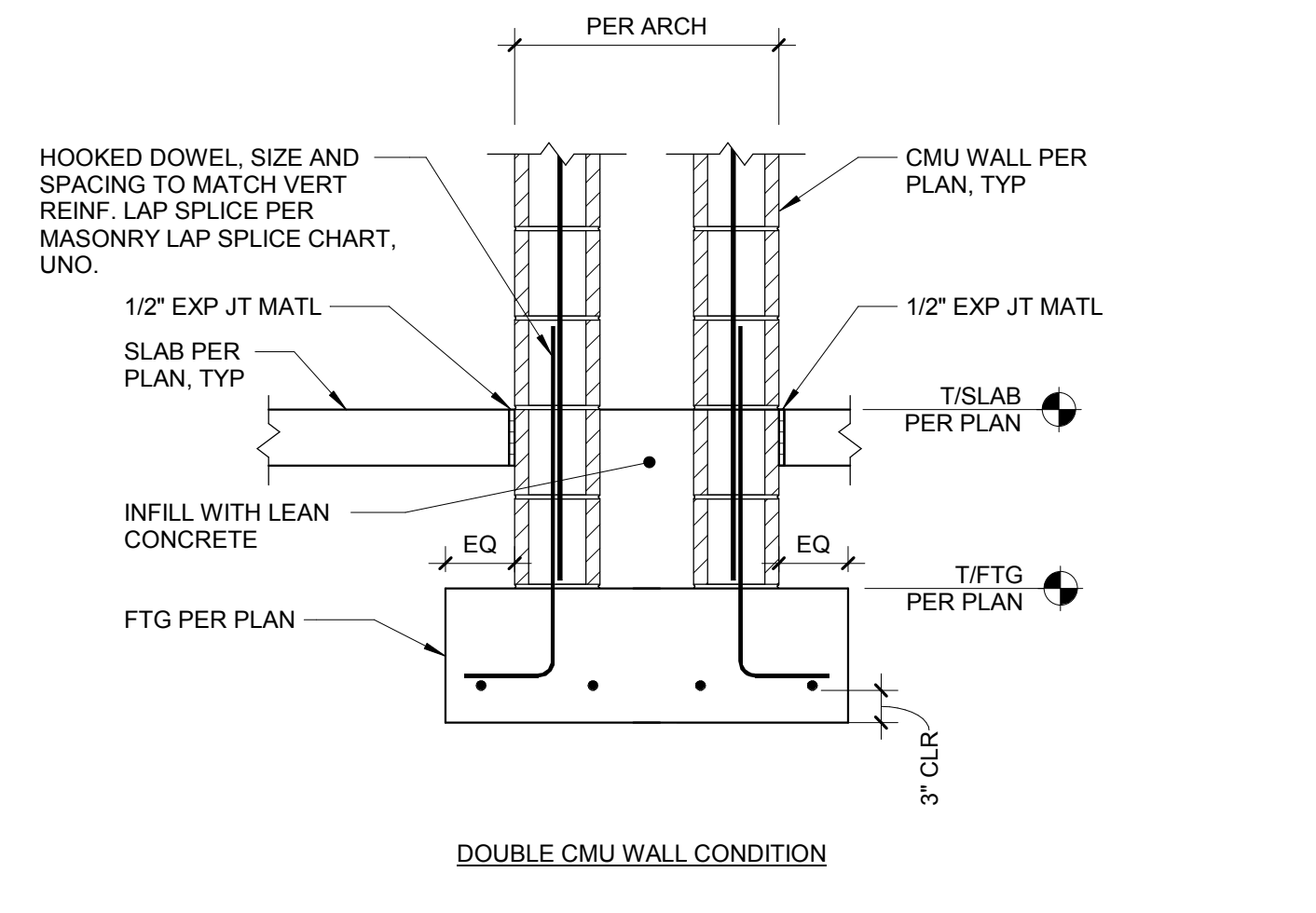
4 S302 N.T.S.
TYPICAL FLOOR DRAIN (SOG) DETAIL



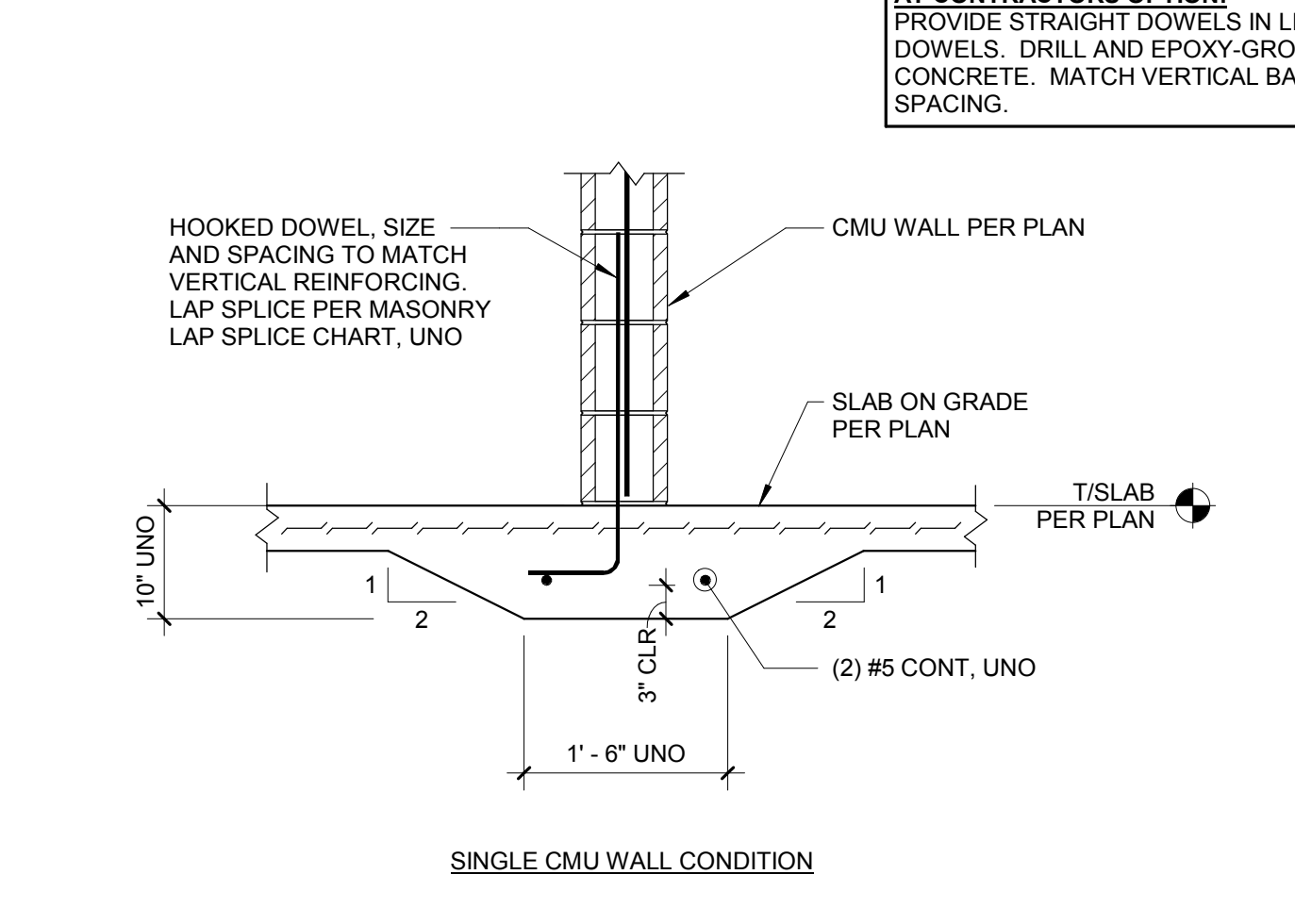
5 S302 N.T.S.
TYPICAL HOUSEKEEPING PAD DETAIL



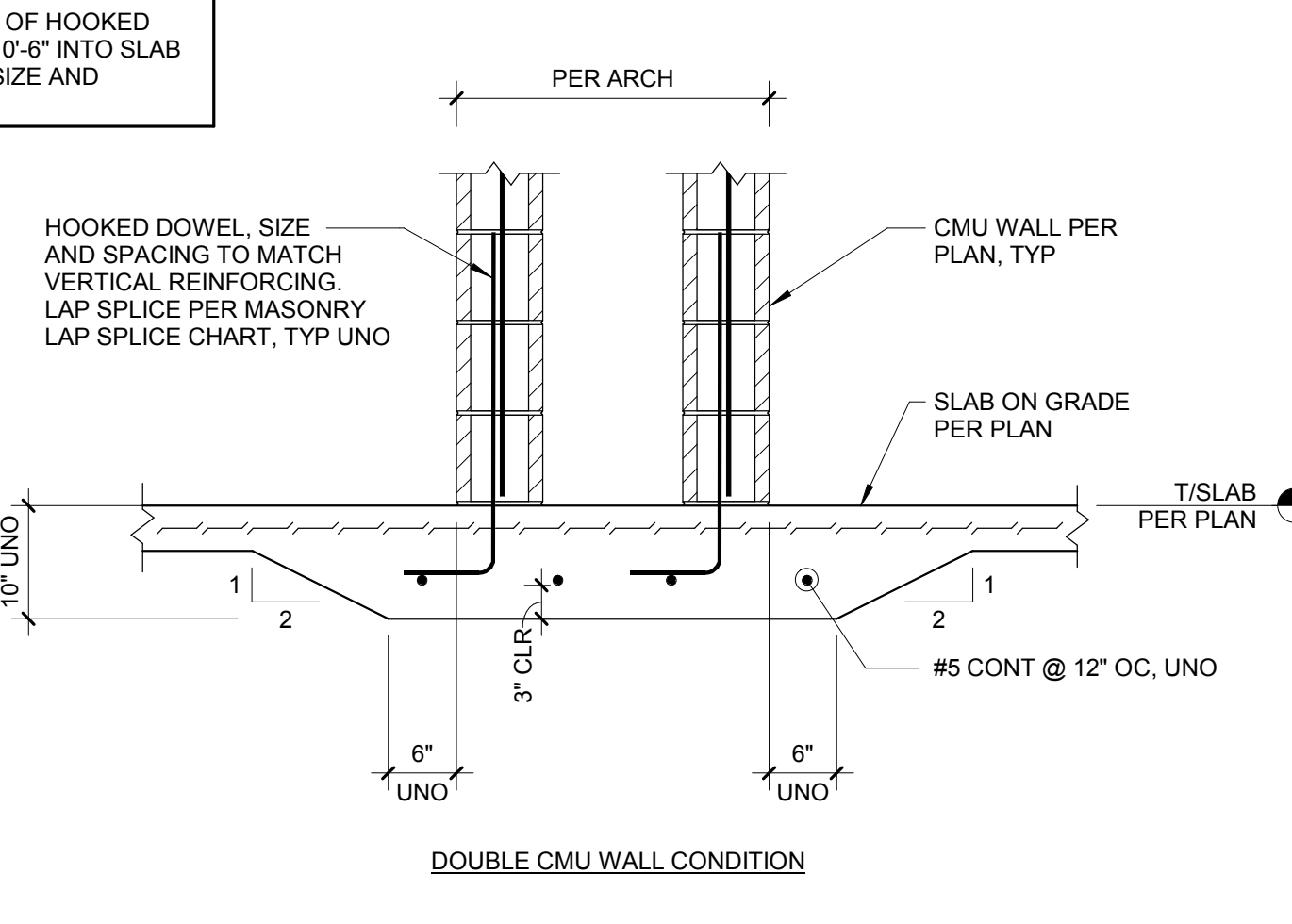
6 S302 N.T.S.
TYPICAL INTERIOR CMU WALL FOOTING DETAIL



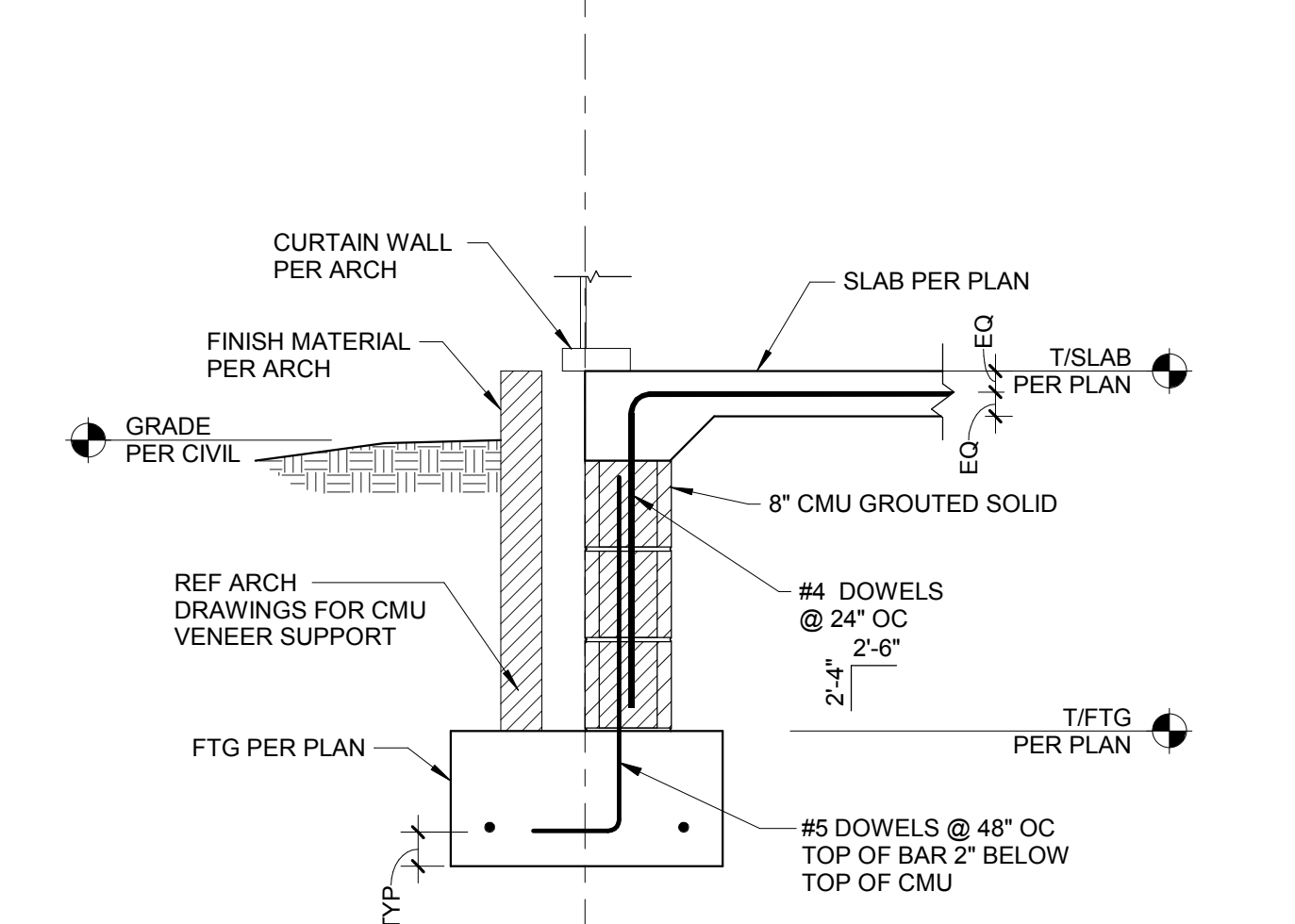
7 S302 N.T.S.
TYPICAL THICKENED SLAB AT CMU WALL DETAIL



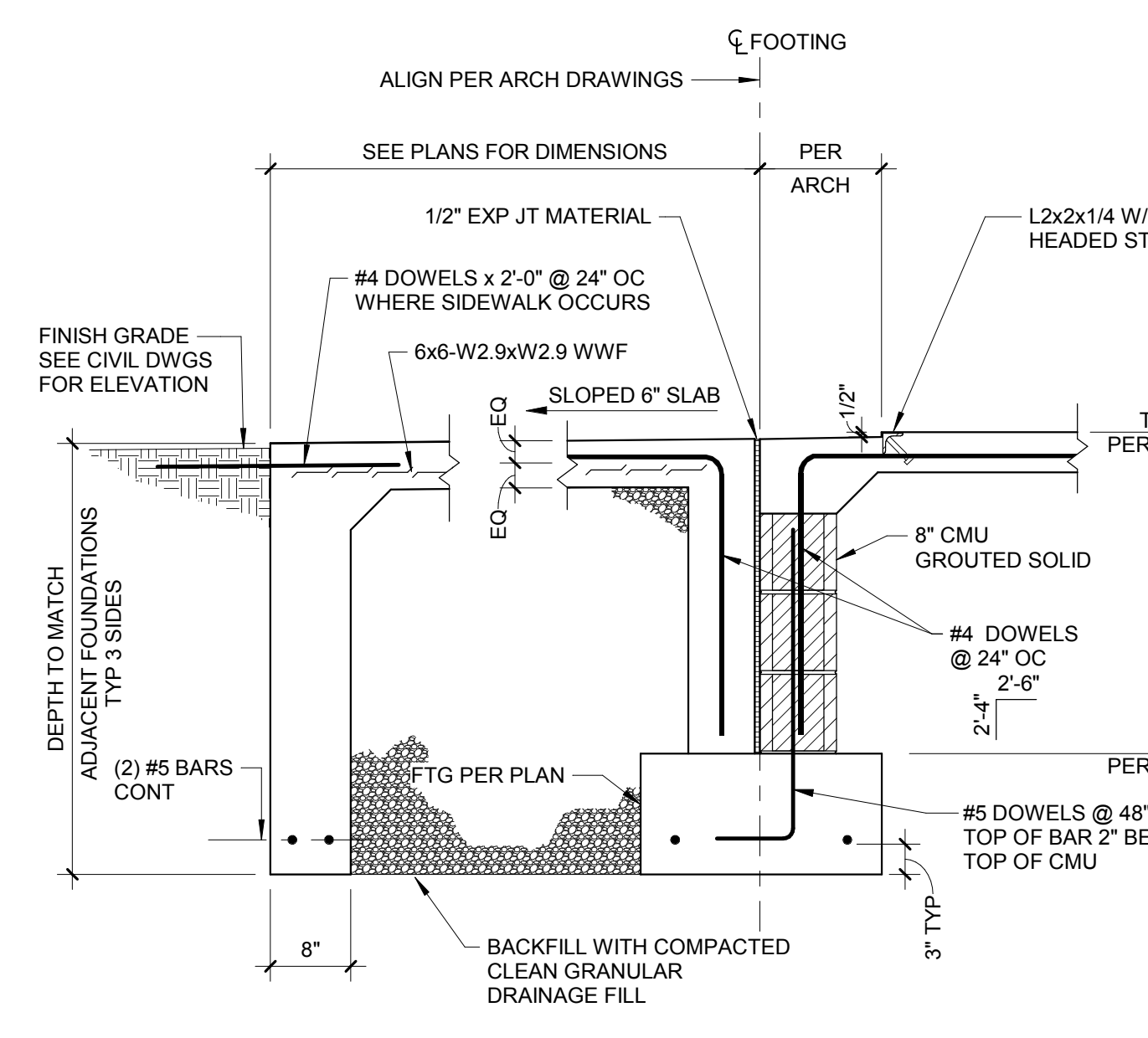
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SECTION



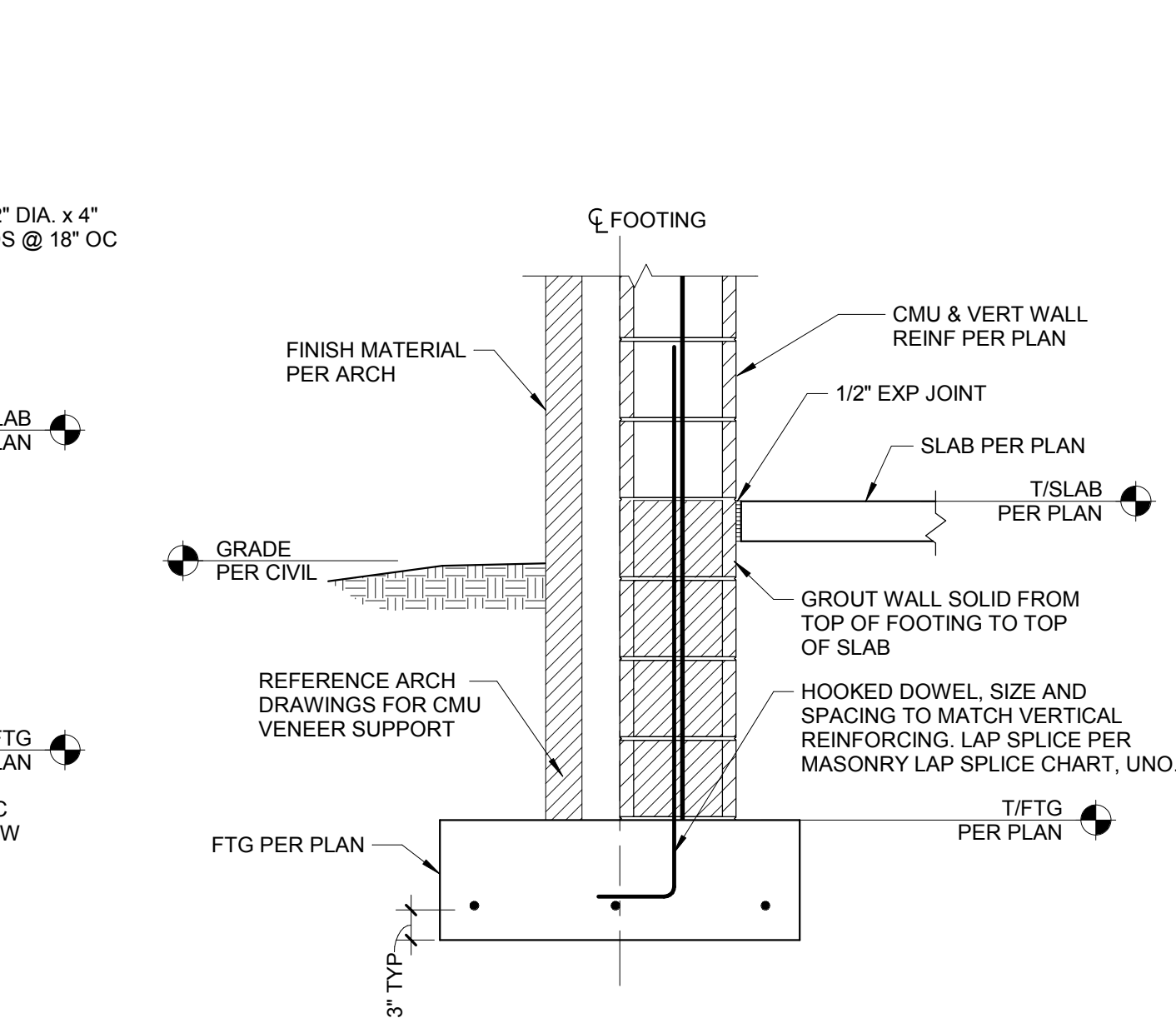
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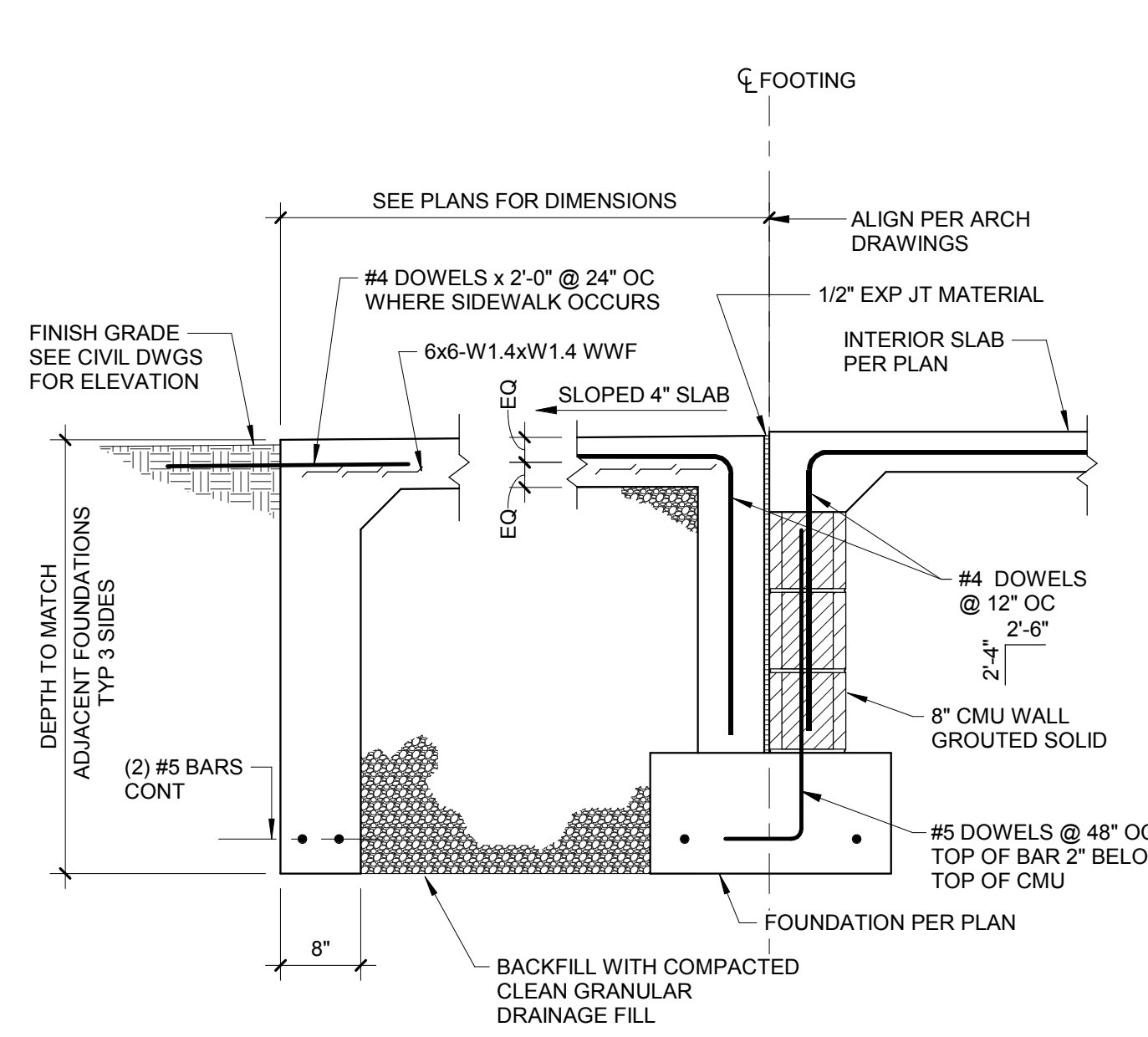
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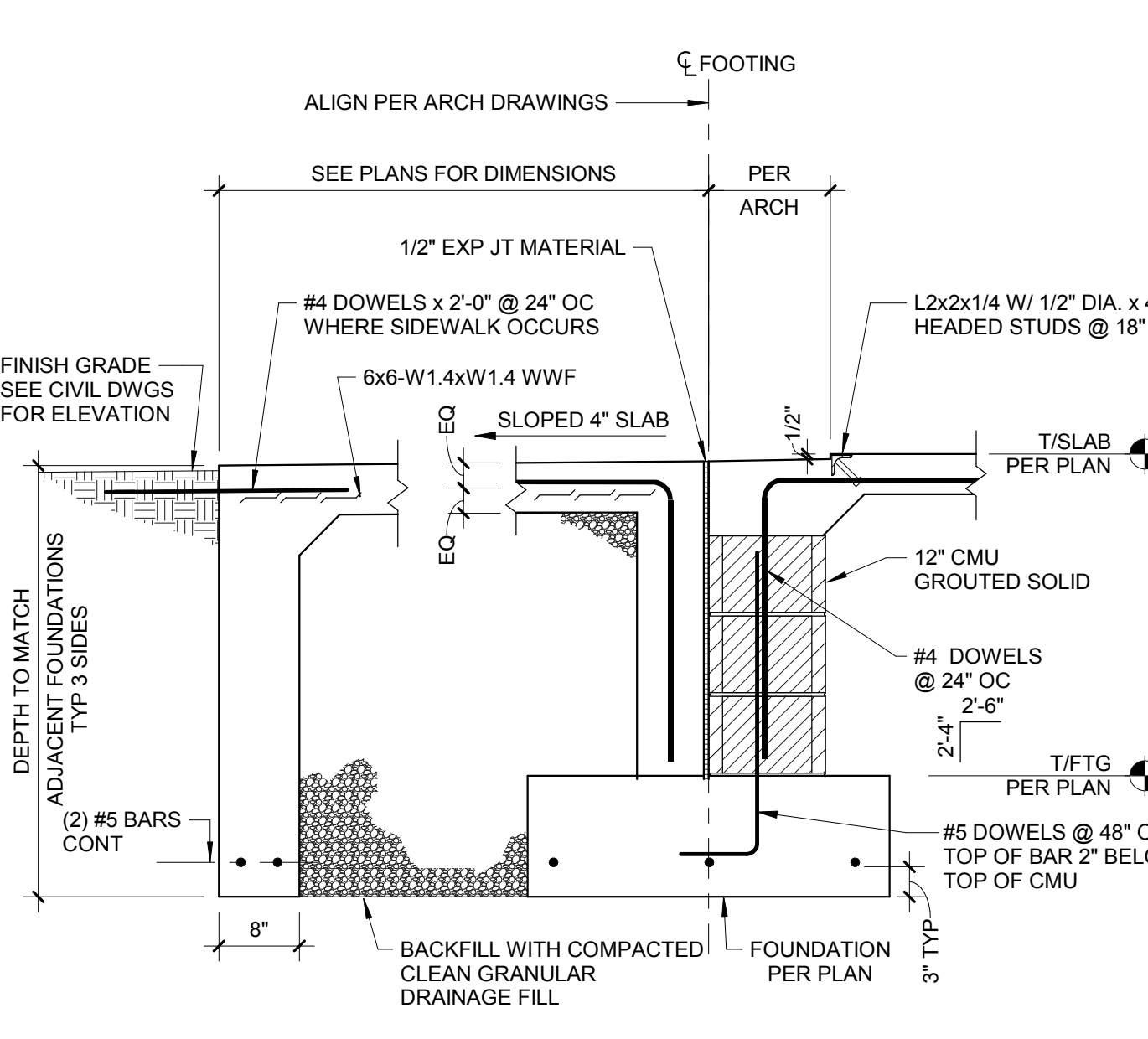
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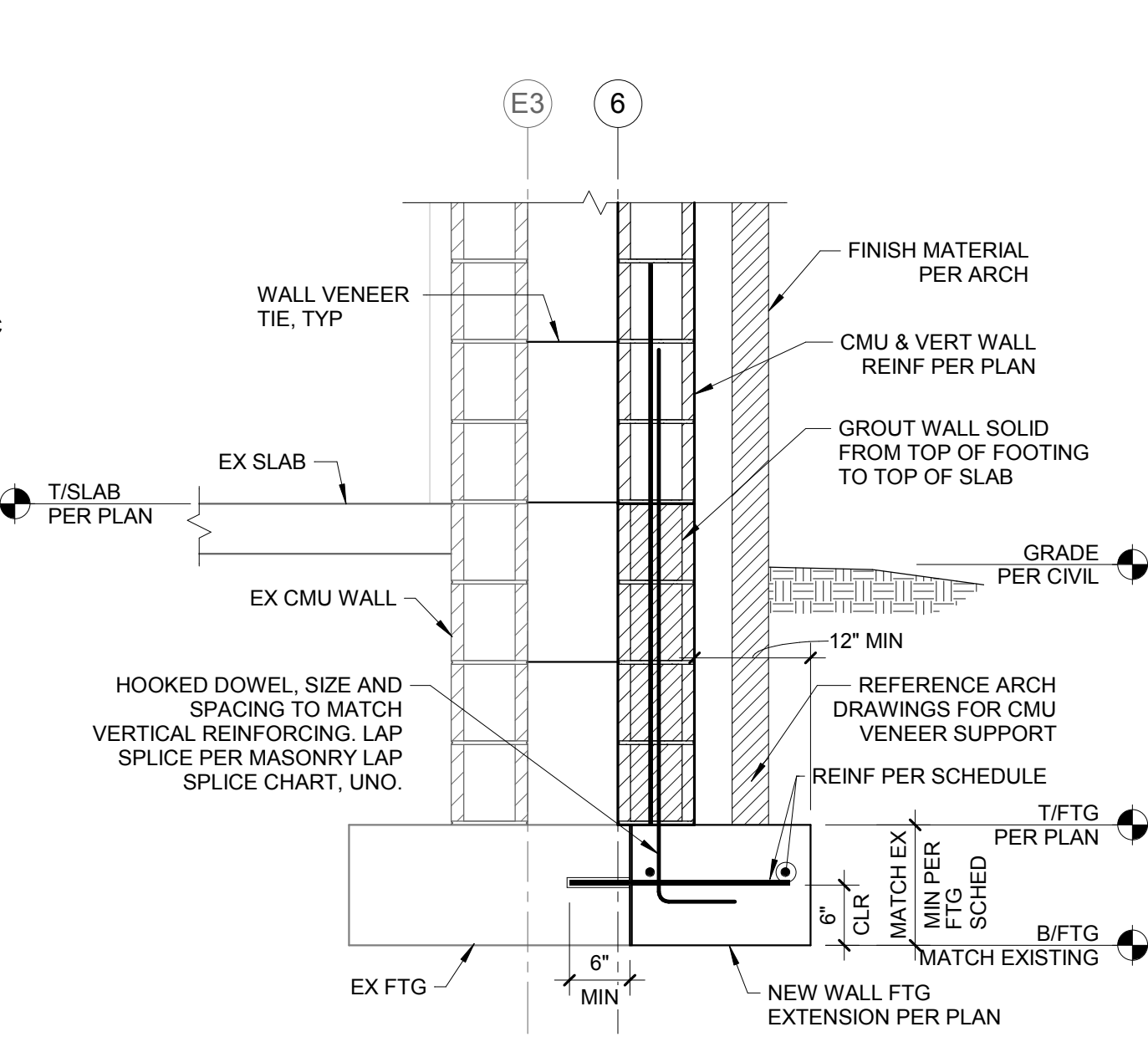
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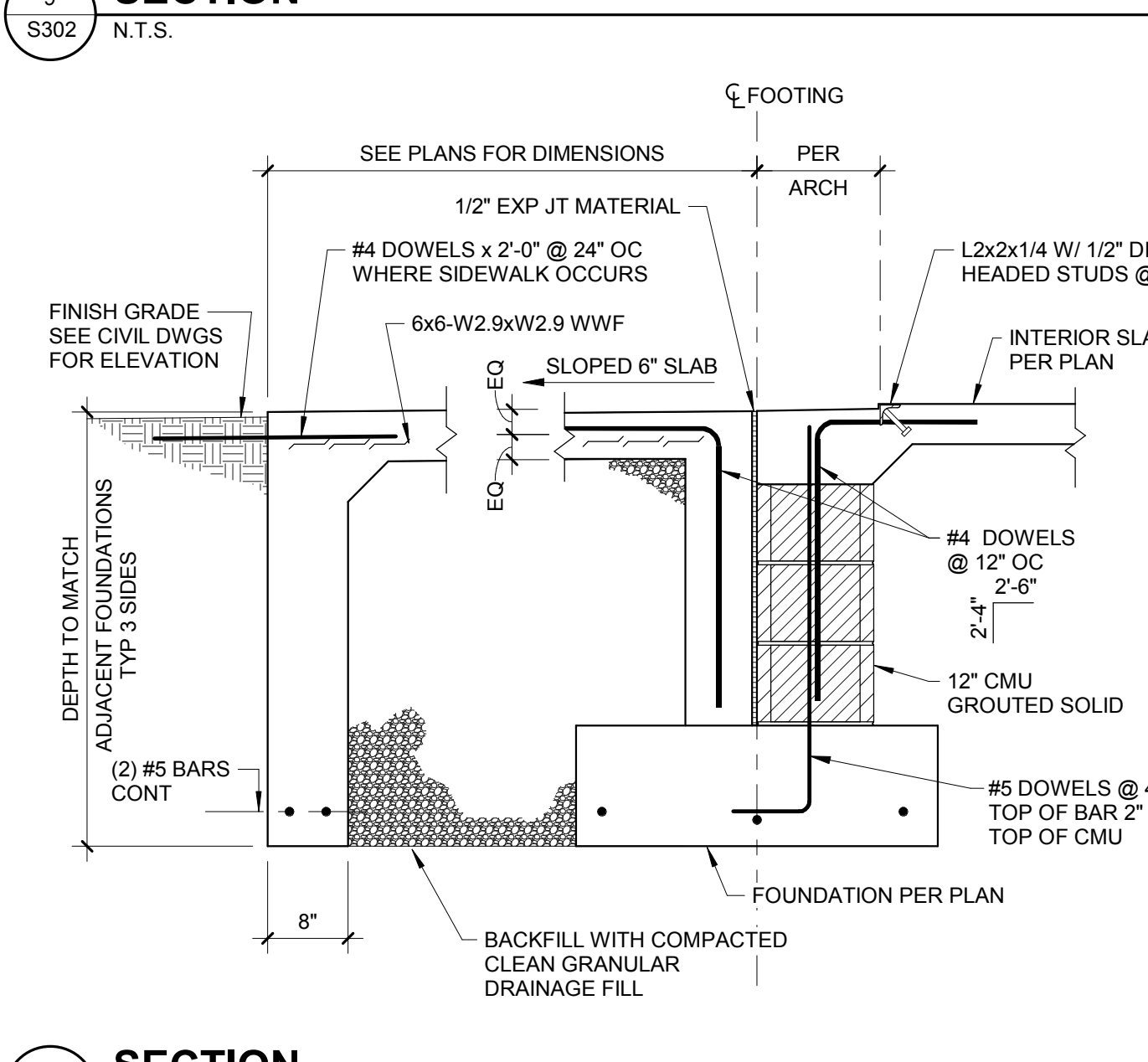
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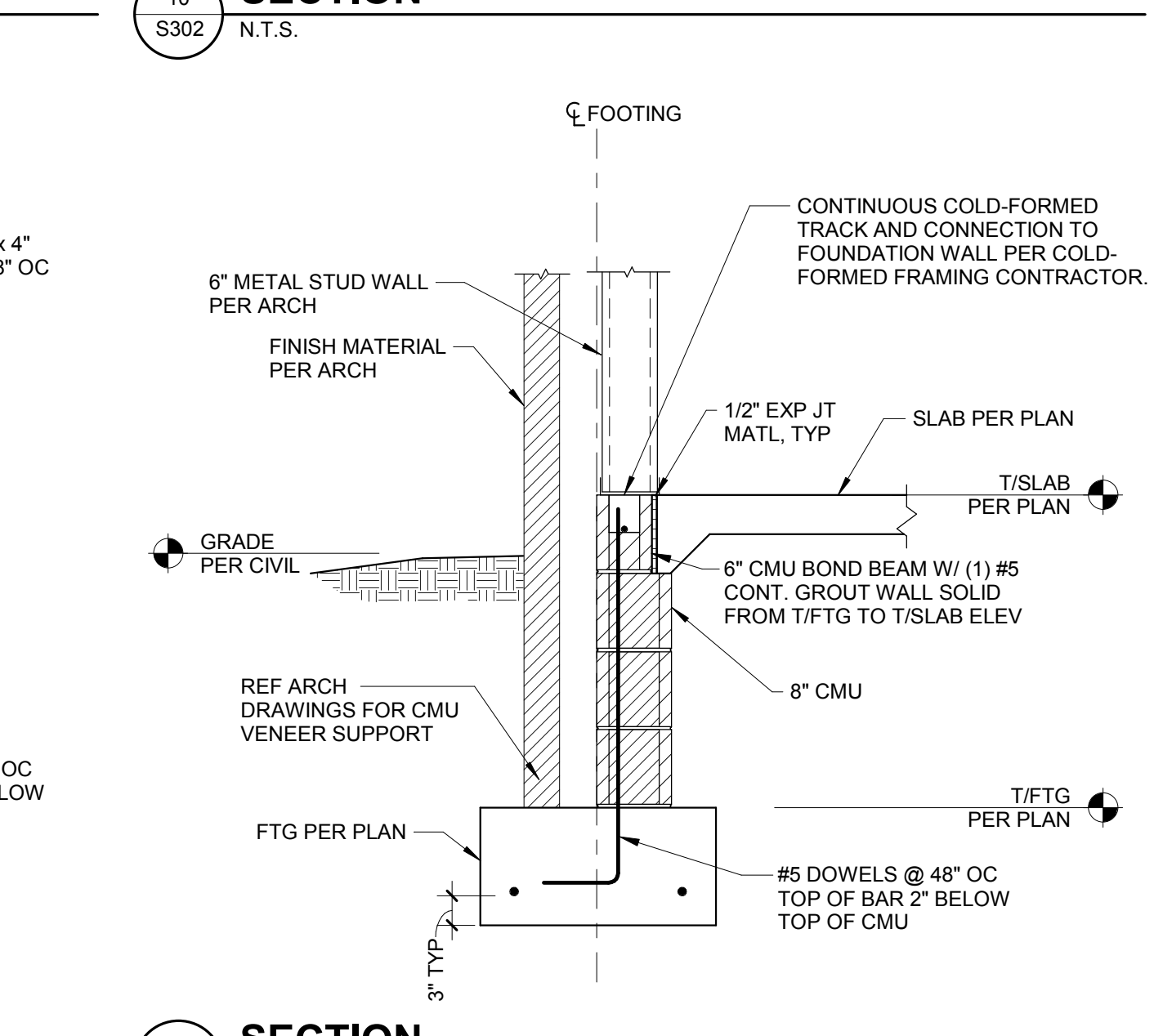
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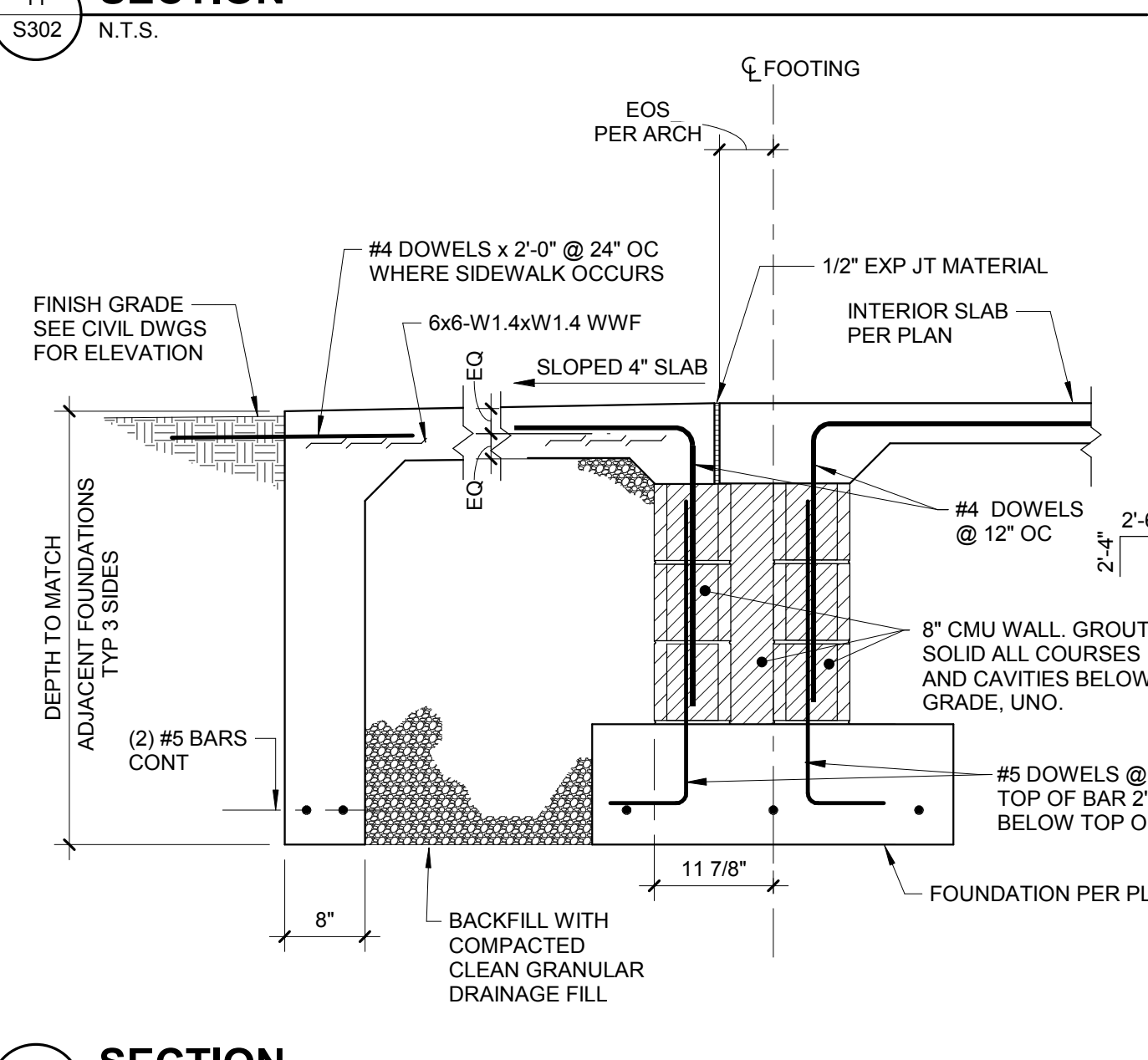
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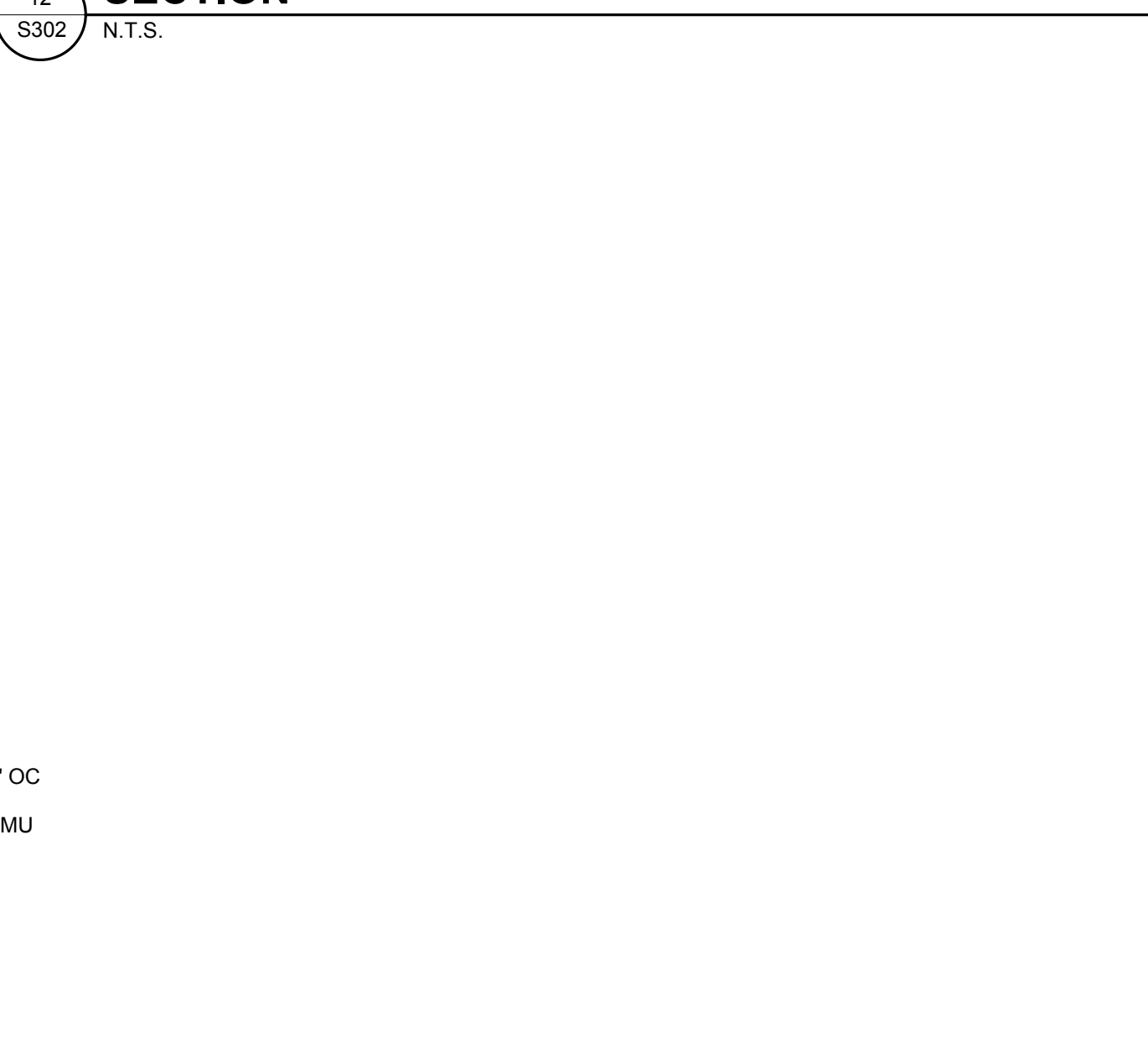
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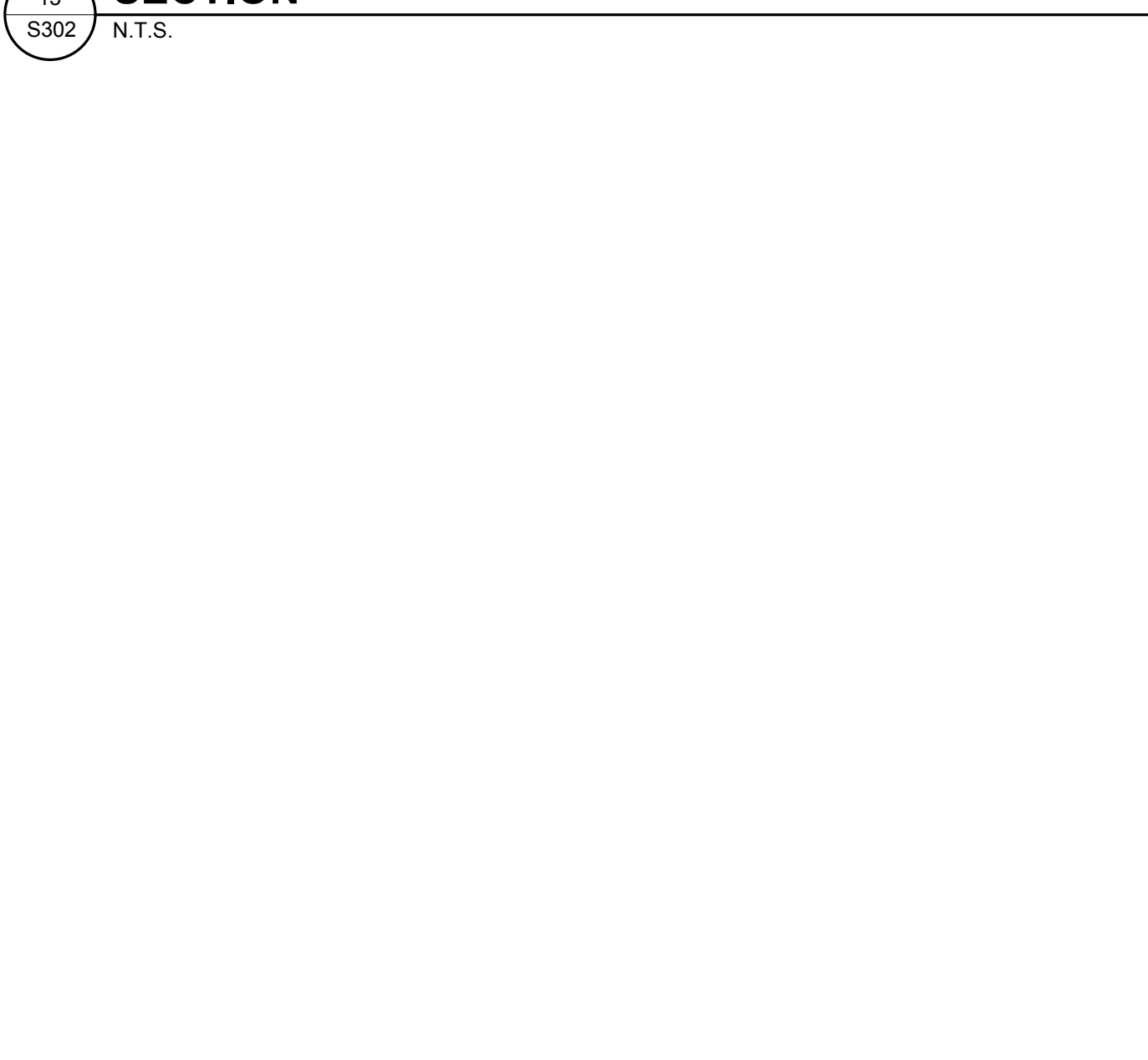
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SECTION



18 S302 N.T.S.
SECTION



19 S302 N.T.S.
SECTION



20 S302 N.T.S.
SECTION

PORTER COUNTY - NORTH ANNEX
PORTAGE, IN

DAVID A. CLARK
REGISTERED
No. PE11200028
STATE OF INDIANA
PROFESSIONAL ENGINEER
David A. Clark
CERTIFIED BY

ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

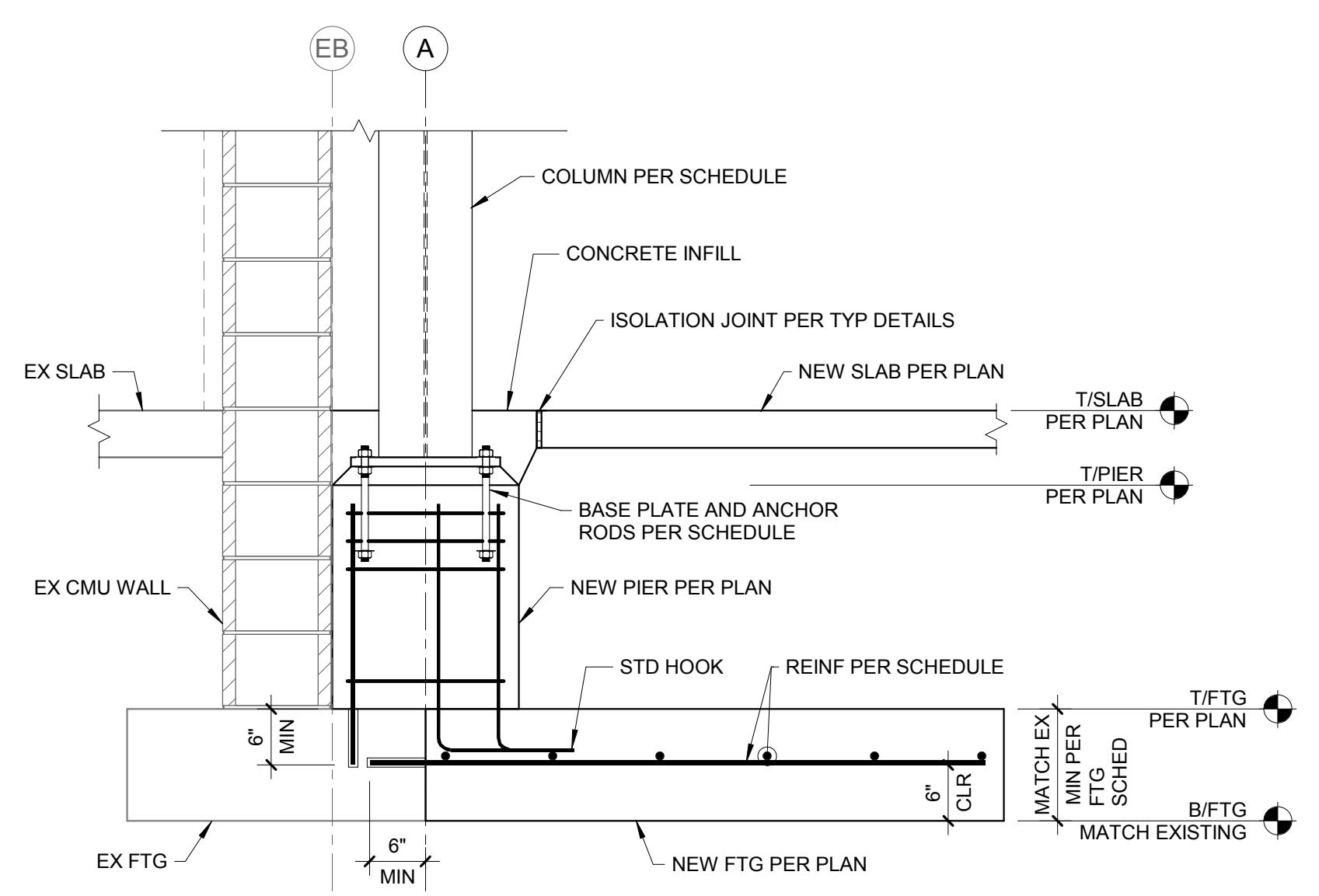
REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

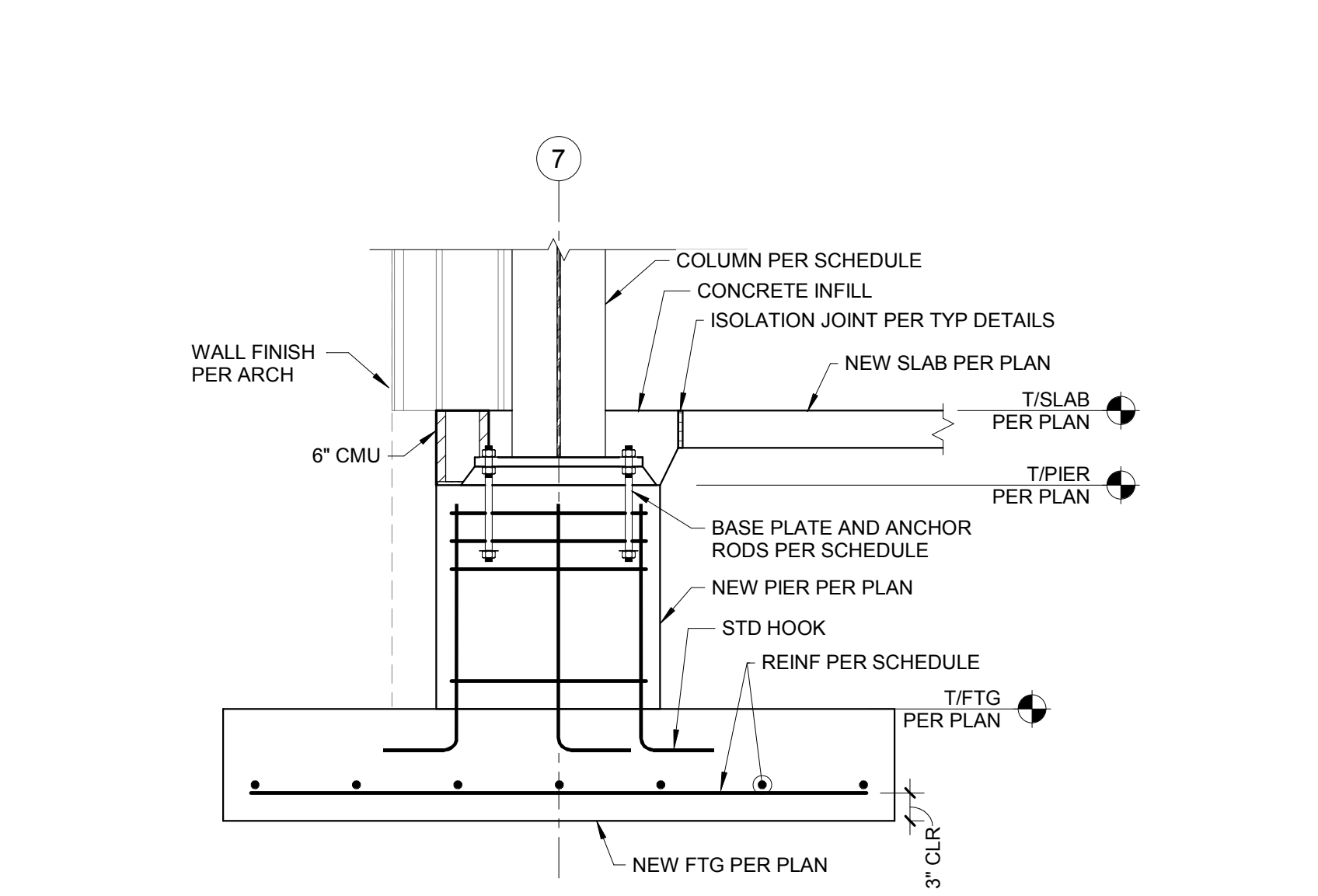
FOUNDATION SECTIONS AND DETAILS

S302

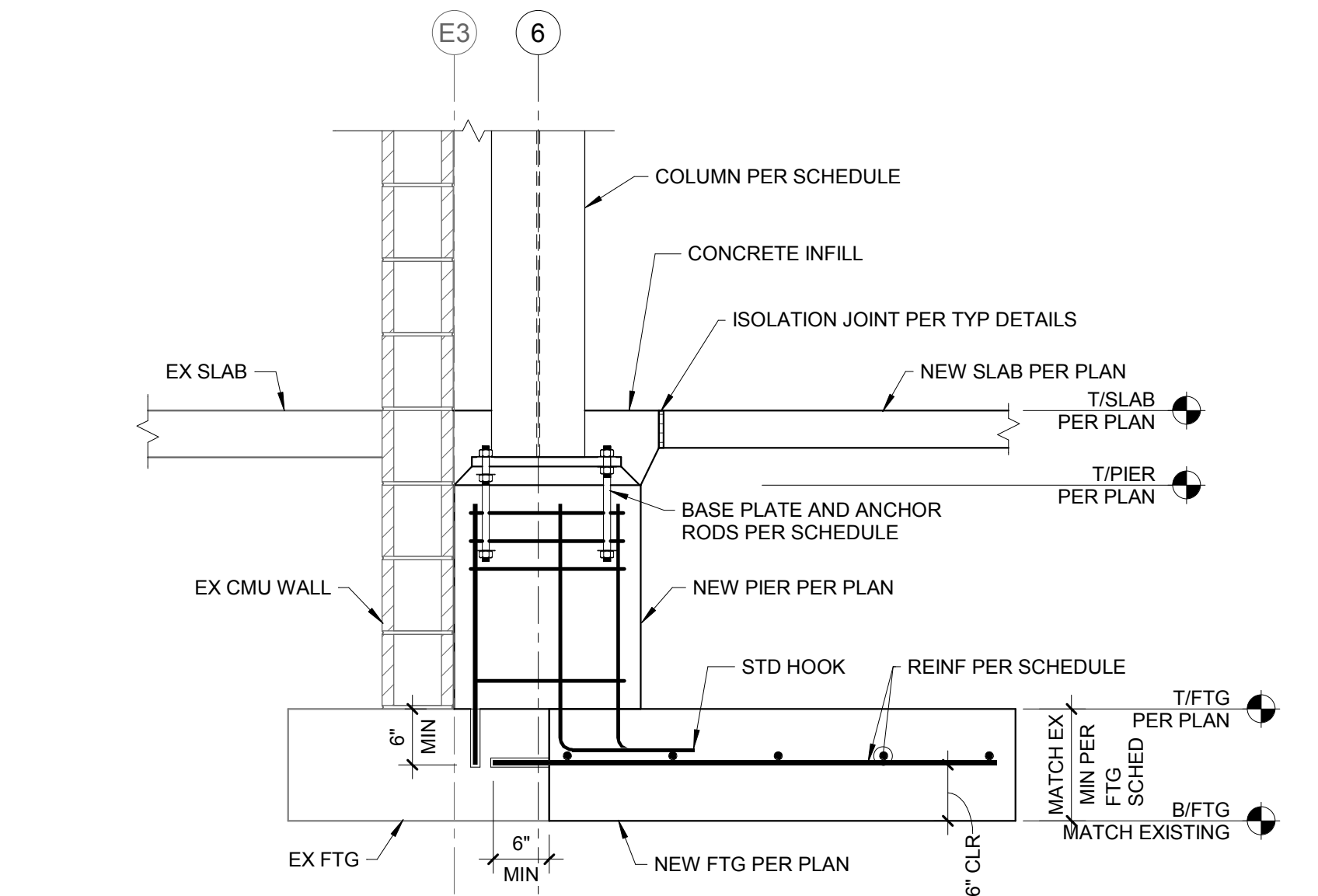
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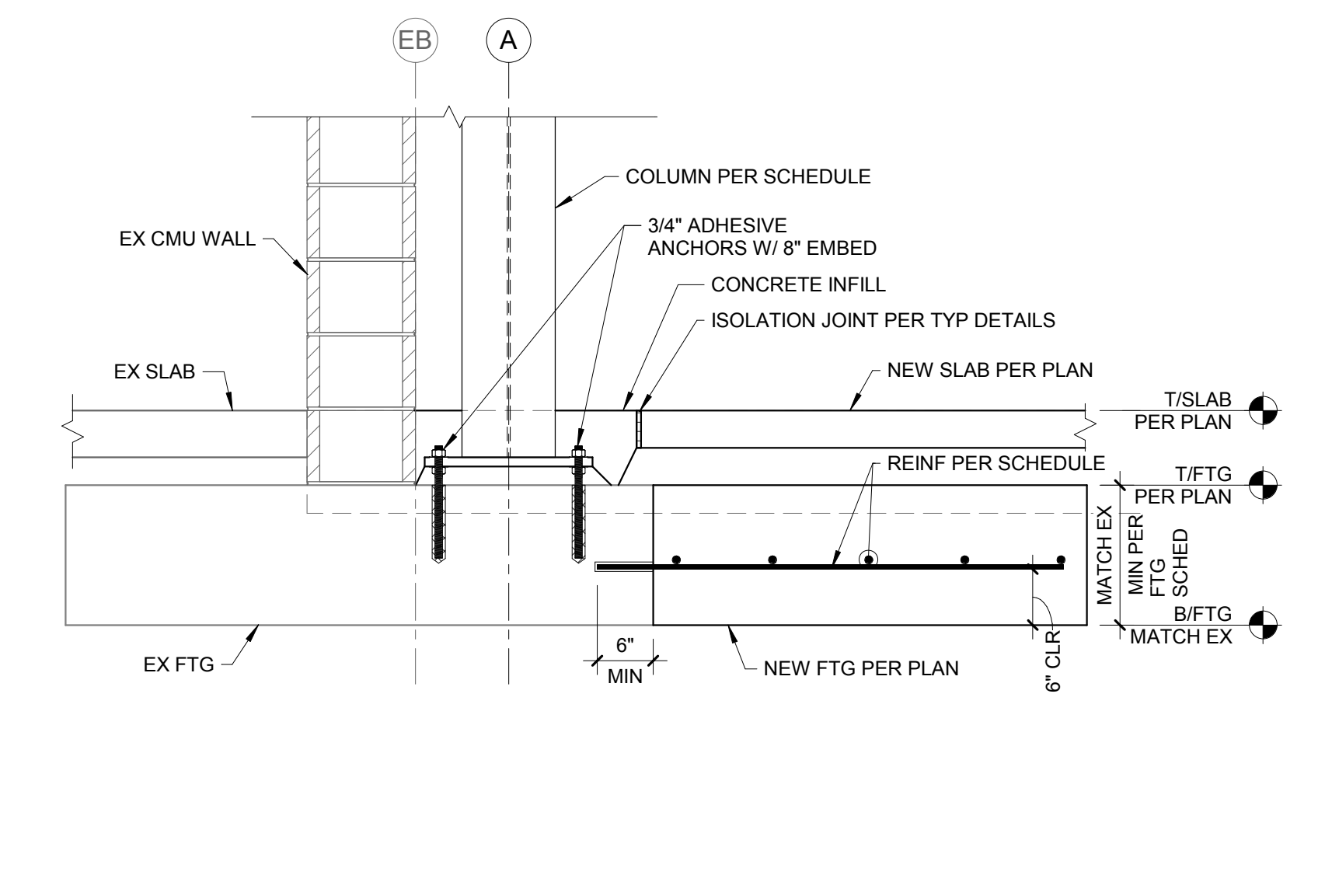
1 SECTION AT GRID A-7
S303 N.T.S.



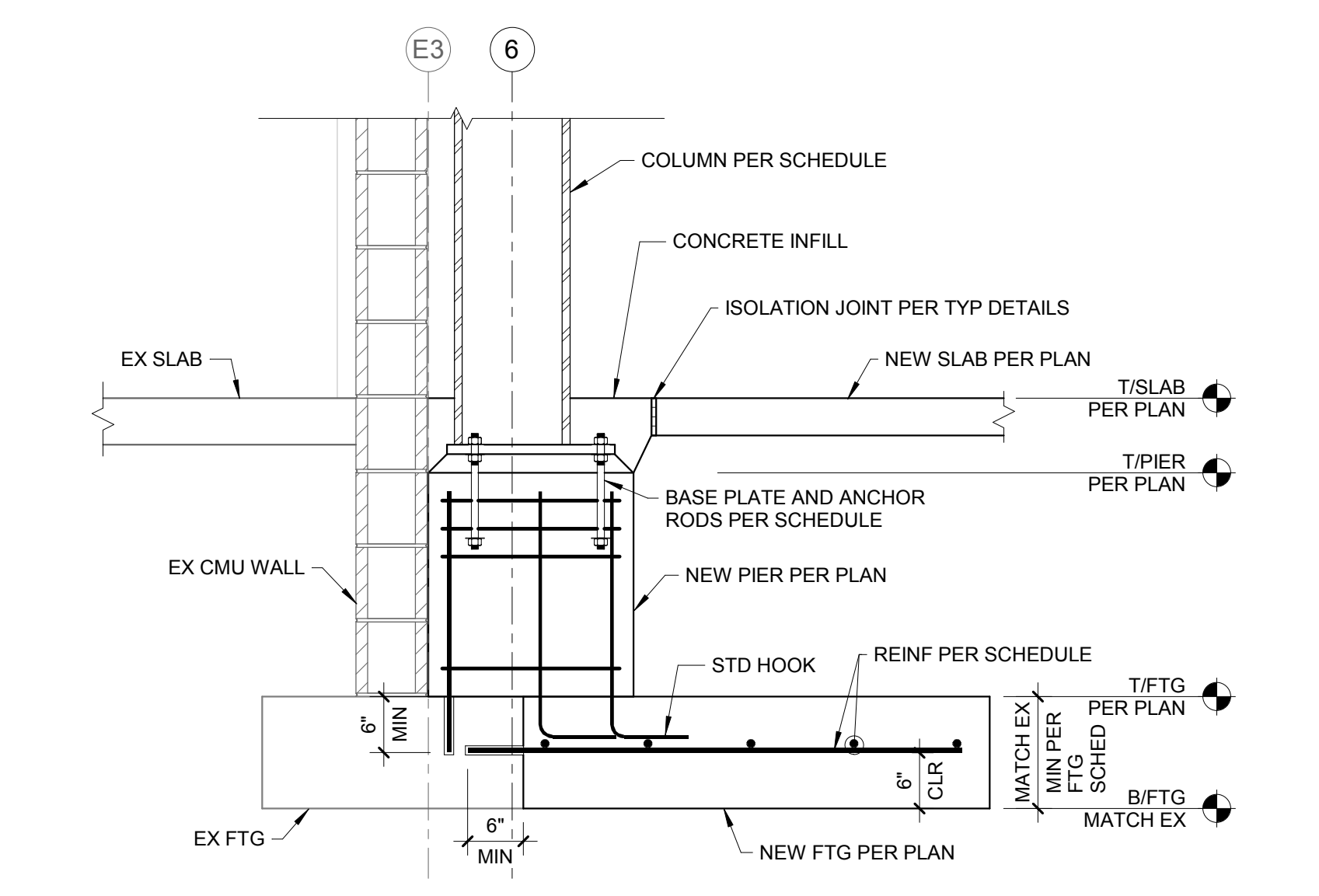
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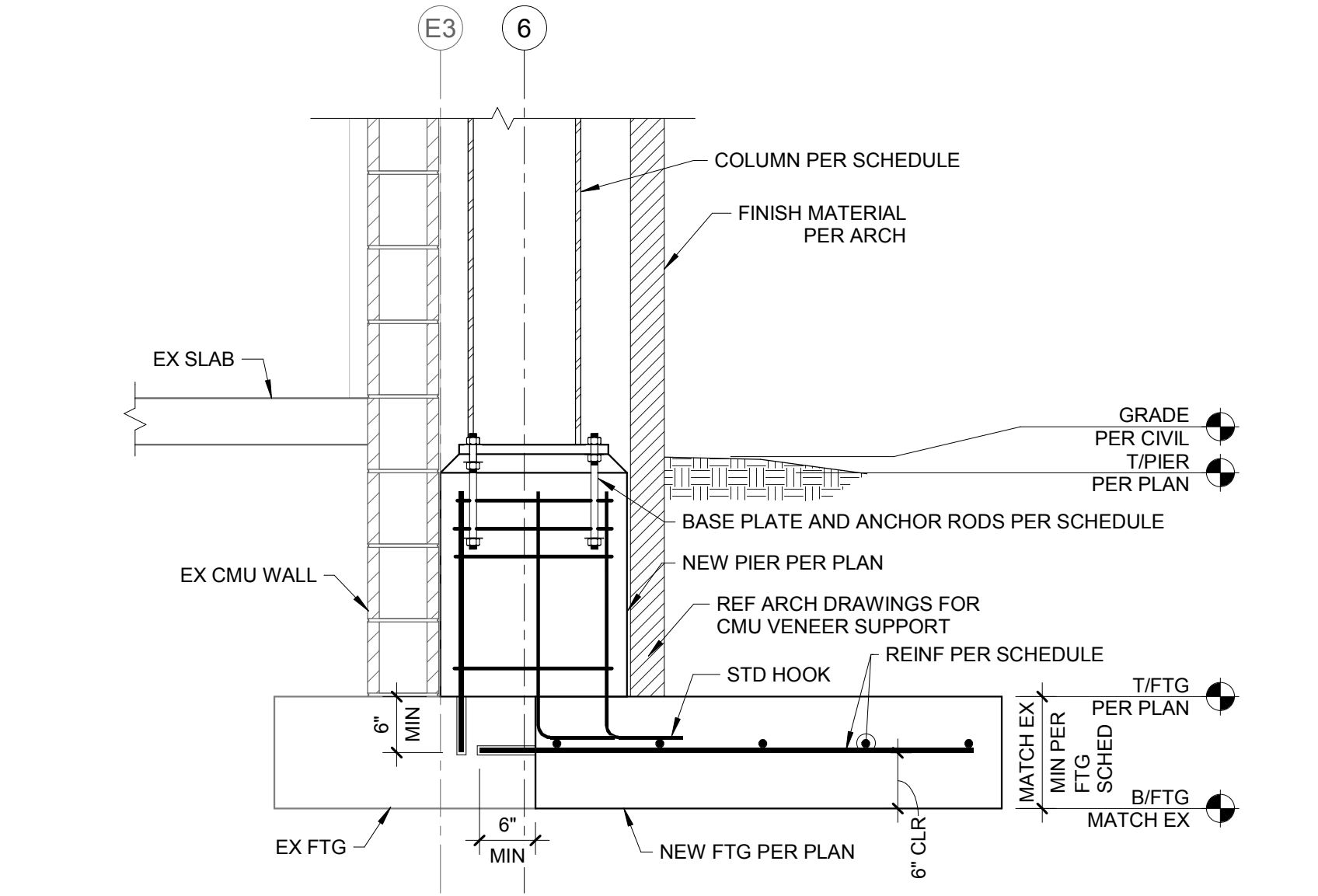
3 SECTION AT GRID B-6
S303 N.T.S.



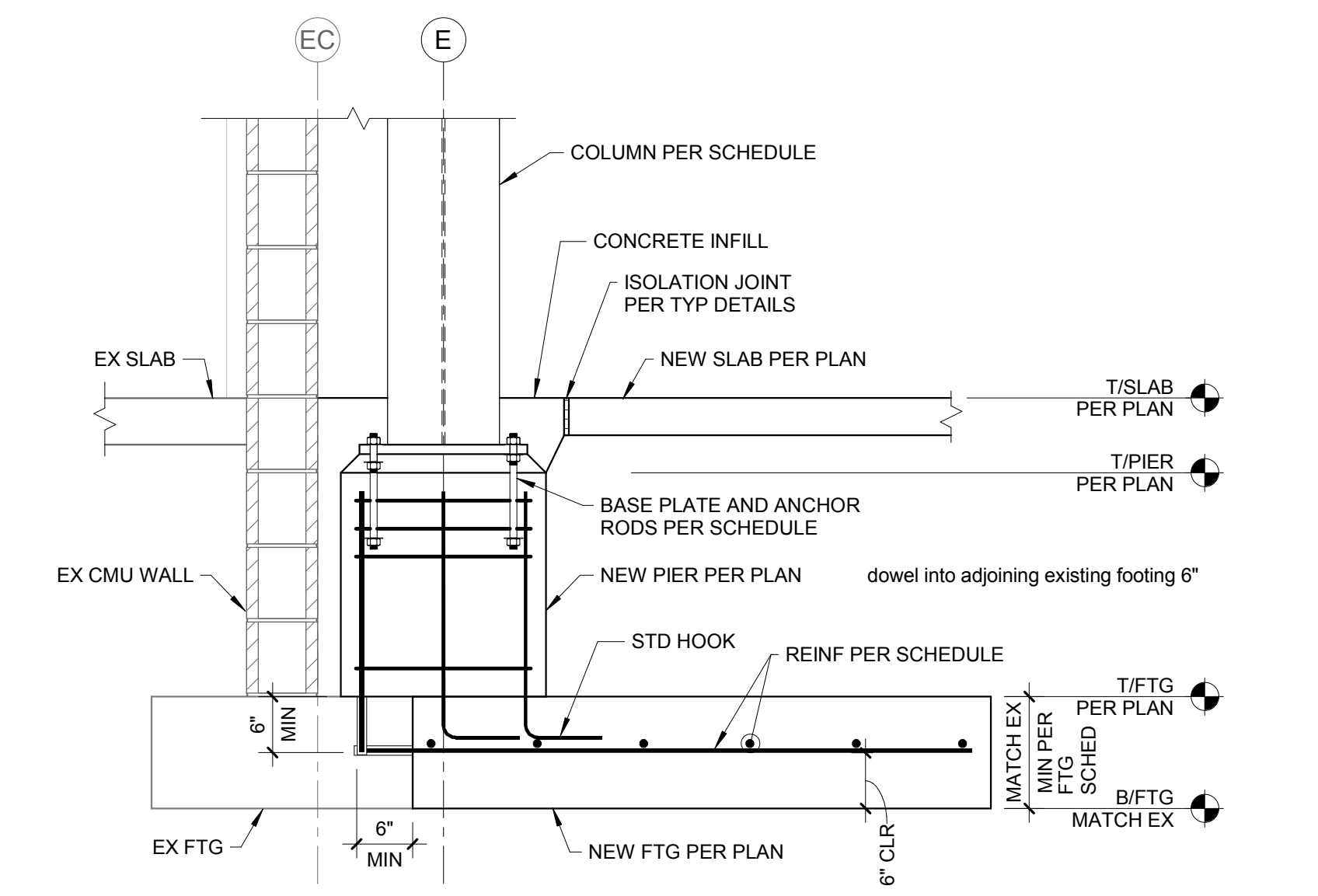
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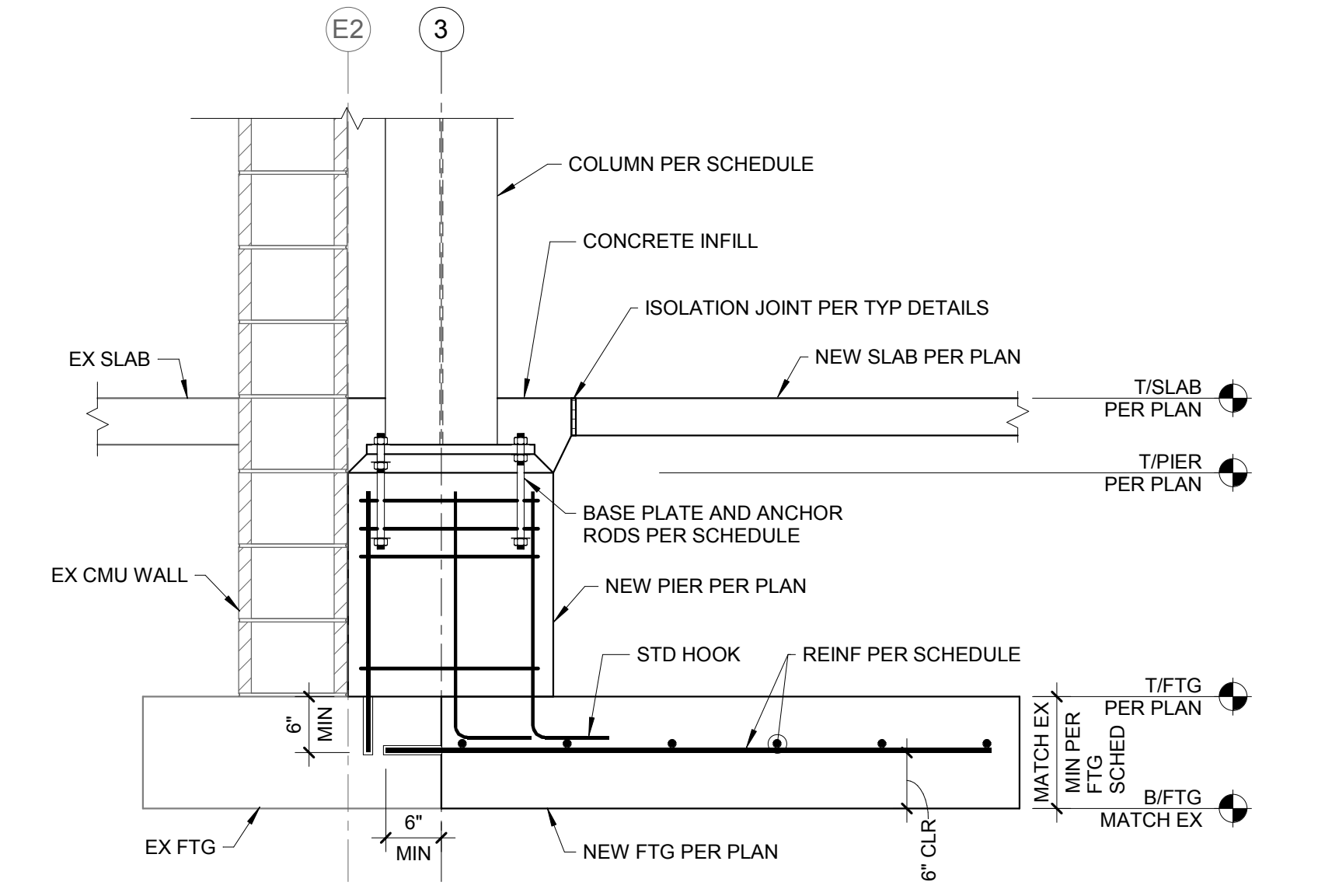
5 SECTION AT GRID C-6
S303 N.T.S.



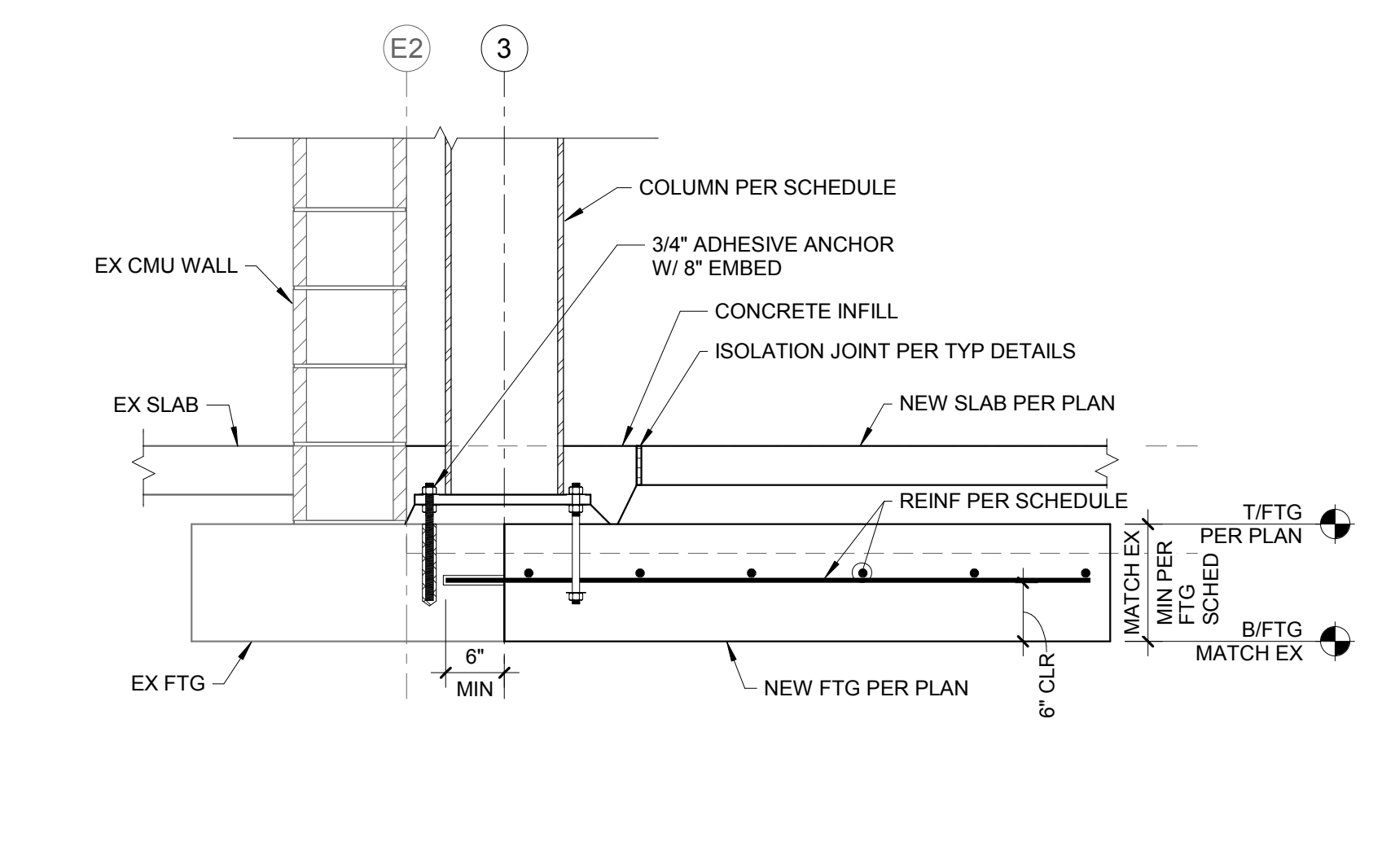
6 SECTION AT GRID D-6
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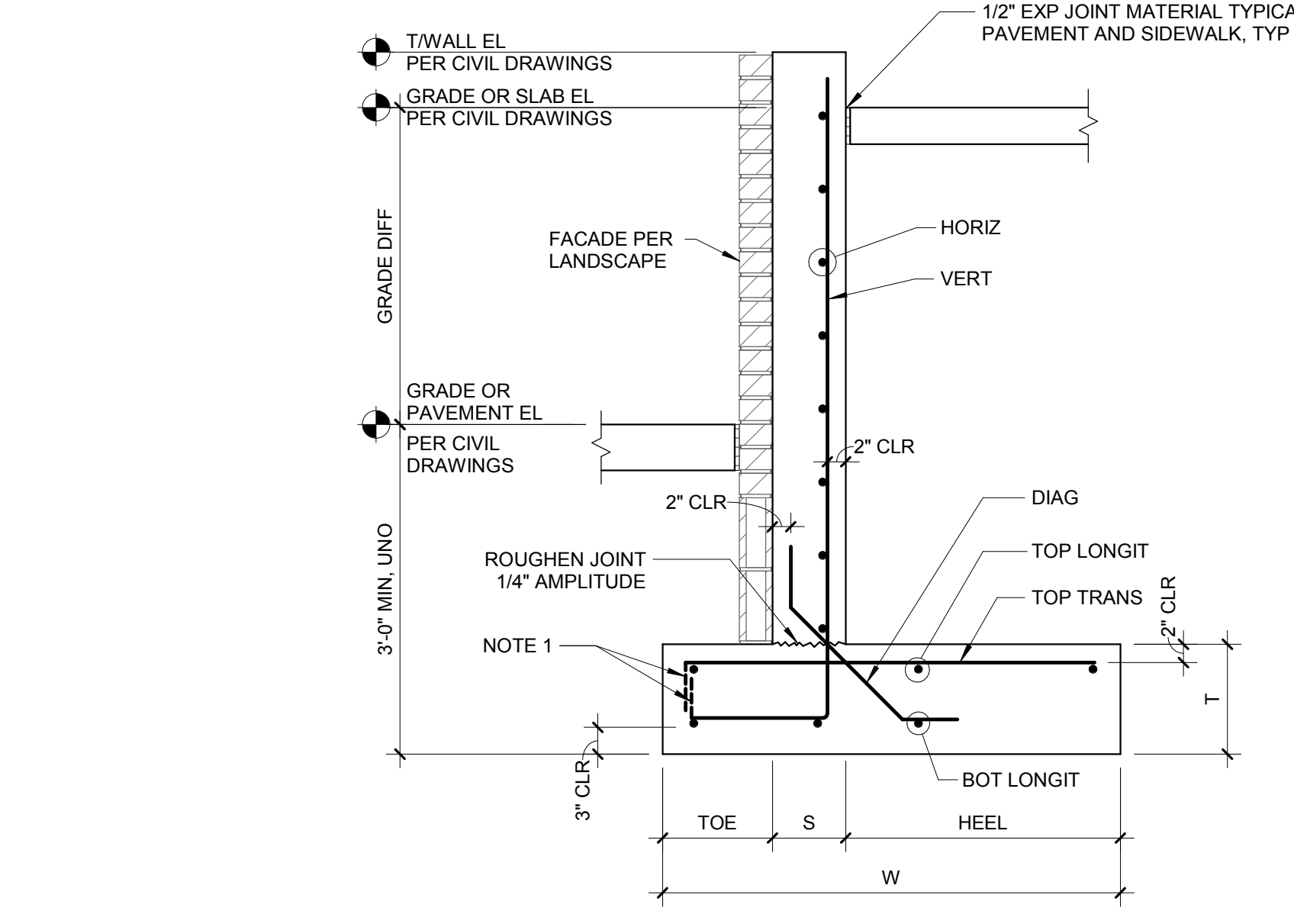
7 SECTION
S303 N.T.S.



8 SECTION AT GRID F-3
S303 N.T.S.



9 SECTION AT GRID E-3
S303 N.T.S.



10 RETAINING WALL SCHEDULE
S303 N.T.S.

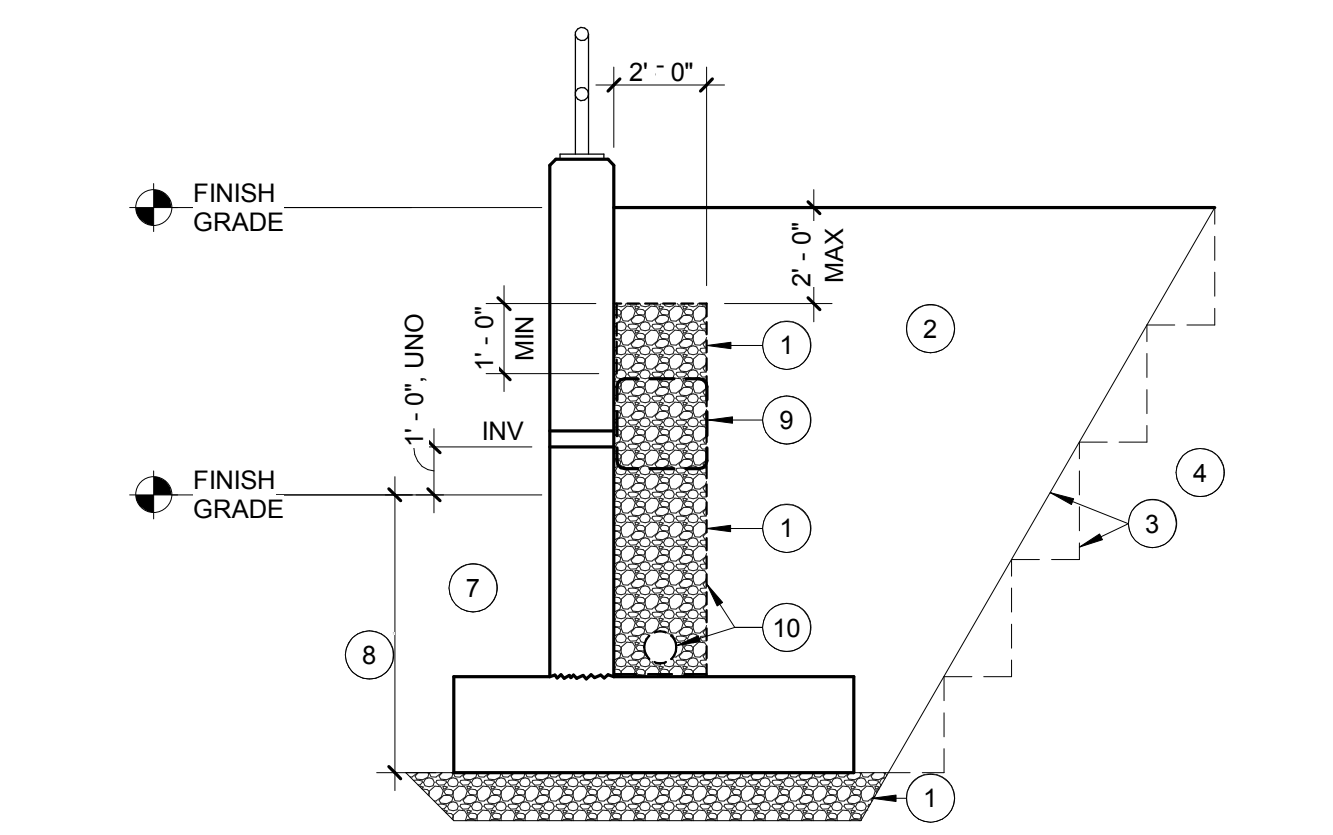
NOTE:
SEE CIVIL DRAWINGS FOR WALL EXTENTS,
PAVEMENT AND GRADING REQUIREMENTS.

RETAINING WALL SCHEDULE						
GEOMETRY						
MARK	GRADE DIFF	W	HEEL	S	TOE	T
RW2	2'-0" MAX	3'-2"	1'-6"	8"	1'-0"	1'-0"
RW4	4'-0" MAX	4'-5"	2'-4"	8"	1'-5"	1'-0"
REINFORCEMENT						
MARK	VERT	HORIZ	DIAG	TOP LONGIT	TOP TRANS	BOT LONGIT
RW2	#5 @ 12" H	#4 @ 12"	#4 @ 12"	(3) #4	#5 @ 12"	(3) #4
RW4	#5 @ 12"	#4 @ 12"	#4 @ 12"	(3) #4	#5 @ 12"	(3) #4

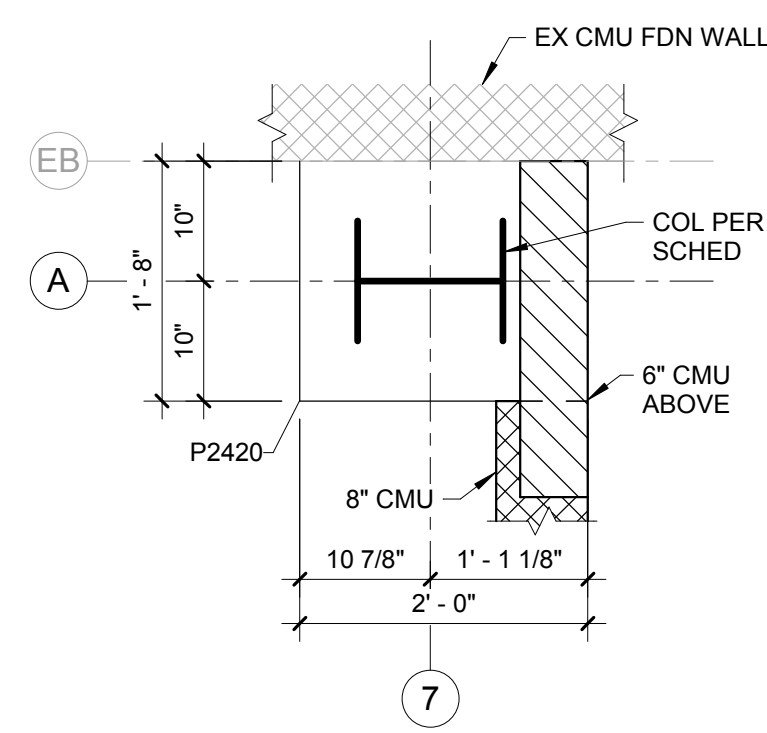
NOTES:
1. "H" IN REINF SCHEDULE INDICATES STANDARD HOOK REQUIRED AT END OF NOTED REINF AT TOE OF FOOTING.

RETAINING WALL BACKFILL DETAIL

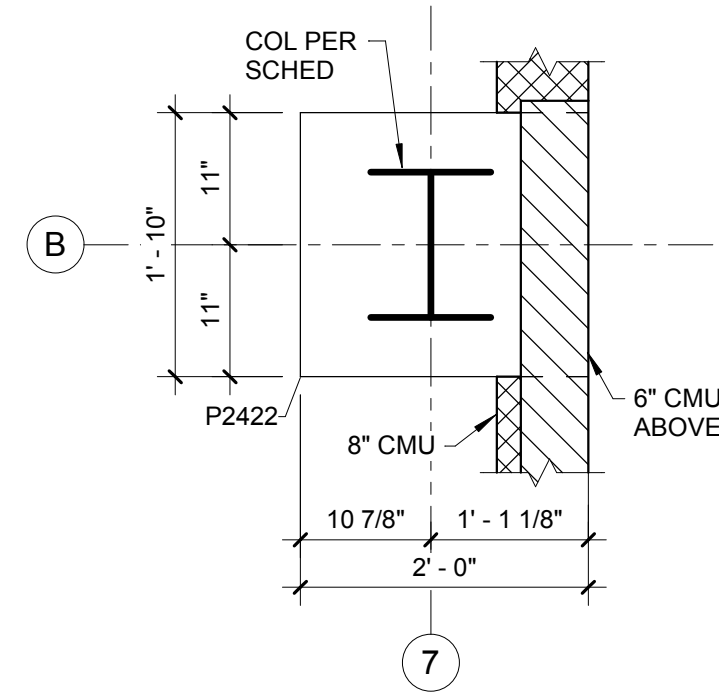
- GENERAL NOTES:**
- SEE RETAINING WALL STRUCTURAL DETAILS FOR REINFORCEMENT, DIMENSIONS, AND ADDITIONAL INFORMATION.
 - SEE CIVIL DRAWINGS FOR WALL LOCATIONS, LENGTHS, ELEVATIONS, GRADING AND ADDITIONAL INFORMATION.
 - ALL SOILS AND BACKFILL OPERATIONS SHALL BE INSPECTED AND APPROVED BY THE PROJECT GEOTECHNICAL TESTING AGENCY.
 - BACKFILL EQUALLY ON BOTH SIDES OF WALL UNTIL LOWER SIDE GRADE IS WITHIN 8 INCHES (MAX) OF FINAL GRADE BEFORE PLACING REMAINDER OF HIGH SIDE GRADE. USE HAND-OPERATED COMPACTION EQUIPMENT WITHIN 8 FEET OF WALL.
 - PLACE BACKFILL IN LIFTS AND COMPACT IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
 - COMPACTED GRANULAR FILL SHALL CONSIST OF NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND; ASTM D-2940; WITH AT LEAST 90 PERCENT PASSING A 1-1/2-INCH (37.5-MM) SIEVE AND NOT MORE THAN 12 PERCENT PASSING A NO. 200 (0.075-MM) SIEVE OR OTHER SUITABLE GRANULAR FILL APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER.
 - COMPACTED FILL SHALL BE SUITABLE CLEAN COMPACTABLE SOIL MATERIAL APPROVED BY THE PROJECT GEOTECHNICAL TESTING AGENCY.
 - FILTER FABRIC SHALL BE A LIGHTWEIGHT, NONWOVEN, 100% POLYPROPYLENE GEOTEXTILE WEIGHING NOT LESS THAN 3.5 OUNCES PER SQUARE YARD, MEETING ASTM D-4632 50% ELONGATION AT BREAK, WITH APPARENT OPENING SIZE EQUAL TO A #50 SIEVE AND FLOW RATE PER ASTM D-4491 OF NOT LESS THAN 150 GAL/MIN PER SFT.
- DETAIL NOTES: (#)**
- ZONE OF COMPACTED GRANULAR FILL.
 - ZONE OF COMPACTED FILL AND FINISH GRADE MATERIALS. SEE CIVIL DRAWINGS.
 - LINE OF EXCAVATION AND/OR BENCHING AS DETERMINED BY THE CONTRACTOR FOR THE SITE SOIL CONDITIONS IN ACCORDANCE WITH RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL REPORT AND THE PROJECT GEOTECHNICAL TESTING AGENCY. CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING SAFETY DURING ALL EARTHWORK OPERATIONS.
 - EXISTING SOIL OR COMPACTED FILL.
 - KEY (WHERE REQUIRED). INSTALL IN SUITABLE EXISTING FIRM UNDISTURBED SOIL OR COMPACTED FILL.
 - INSTALL FOOTING ON AND WITHIN SUITABLE FIRM UNDISTURBED SOIL OR COMPACTED FILL.
 - ZONE OF COMPACTED FILL AND FINISH GRADE MATERIALS PER CIVIL DRAWINGS.
 - INSTALL FOOTINGS TO ELEVATIONS INDICATED ON THE DRAWINGS. IN NO CASE SHALL BOTTOMS OF FOOTINGS BE LESS THAN THE GREATER OF LOCAL FROST DEPTH OR 3'-0" BELOW LOWER FINISH GRADE ELEVATION. IF A DIMENSIONAL DISCREPANCY OCCURS THAT WOULD IMPLY PLACEMENT WITH LESS THAN REQUIRED SOIL COVER, NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY AND DO NOT INSTALL THE FOOTING WITHOUT PRIOR REVIEW BY THE STRUCTURAL ENGINEER.
 - WHERE WEEP HOLES ARE INDICATED ON STRUCTURAL DETAILS, INSTALL 2'-0" X 2'-0" CONTINUOUS BED OF COMPACTED GRANULAR FILL WRAPPED IN FILTER FABRIC, TIGHT TO WALL, CENTERED ON WEEP HOLE CENTERLINE ELEVATION. WHERE WEEP HOLES ARE INDICATED BUT NOT OTHERWISE SIZED, USE 2-INCH DIAMETER PVC PIPE SPACED AT A MAXIMUM OF 10'-0" OC. UNO.
 - WHERE FOOTING DRAINS ARE INDICATED ON STRUCTURAL DETAILS, INSTALL 2'-0" WIDE BED OF COMPACTED GRANULAR FILL WRAPPED IN FILTER FABRIC, FULL-HEIGHT FROM TOP OF FOOTING TO TOP OF GRANULAR FILL LAYER. WHERE FOOTING DRAINS ARE INDICATED BUT NOT OTHERWISE SIZED, USE MINIMUM OF 6-INCH DIAMETER PERFORATED PVC PIPE, EXTENDED TO DRAINAGE OUTLET AS INDICATED ON THE CIVIL DRAWINGS. FULLY WRAP DRAINS WITH FILTER FABRIC PRIOR TO SETTING IN PLACE.



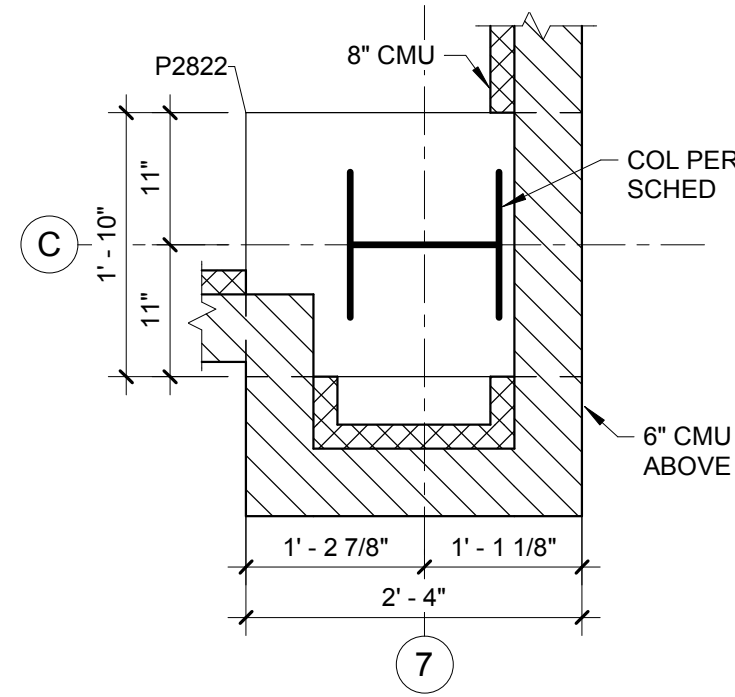
11 TYPICAL RETAINING WALL BACKFILL DETAIL
S303 N.T.S.



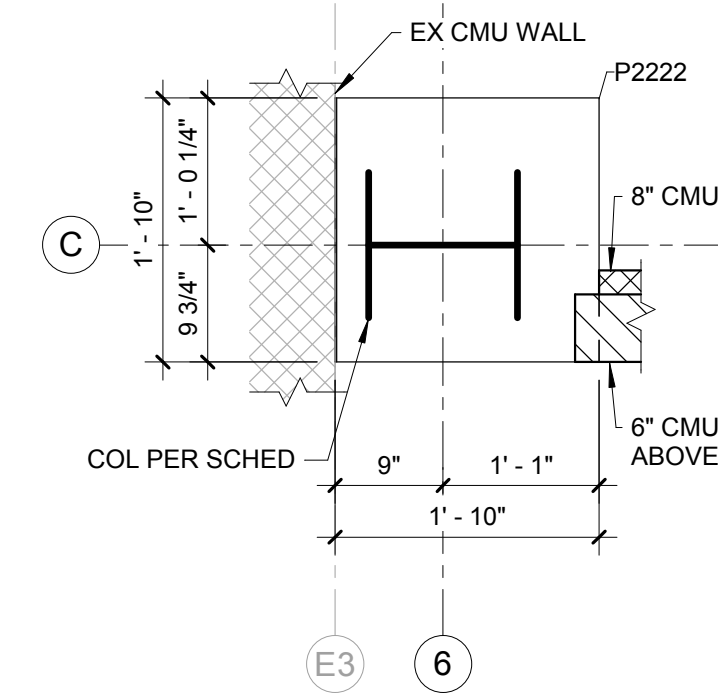
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S310 N.T.S.



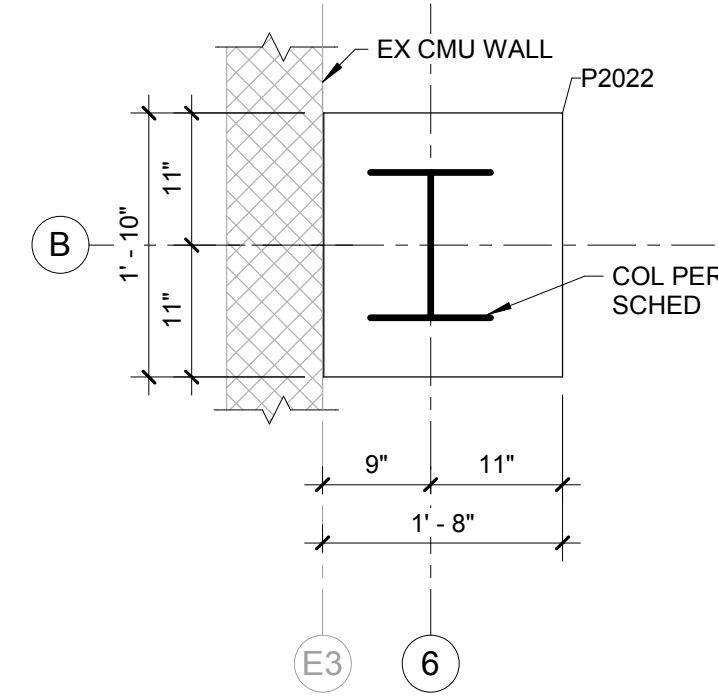
2 PIER DETAIL AT GRID B-7
S310 N.T.S.



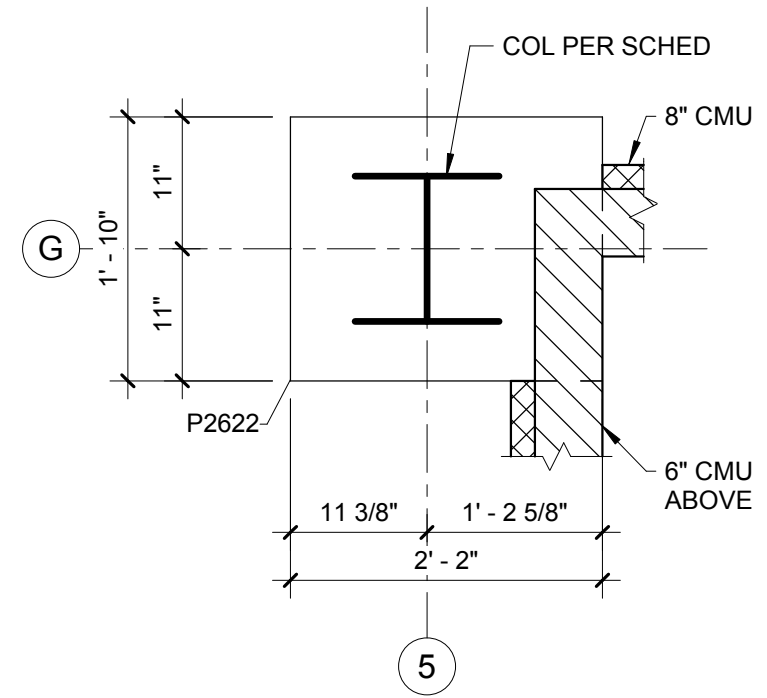
3 PIER DETAIL AT GRID C-7
S310 N.T.S.



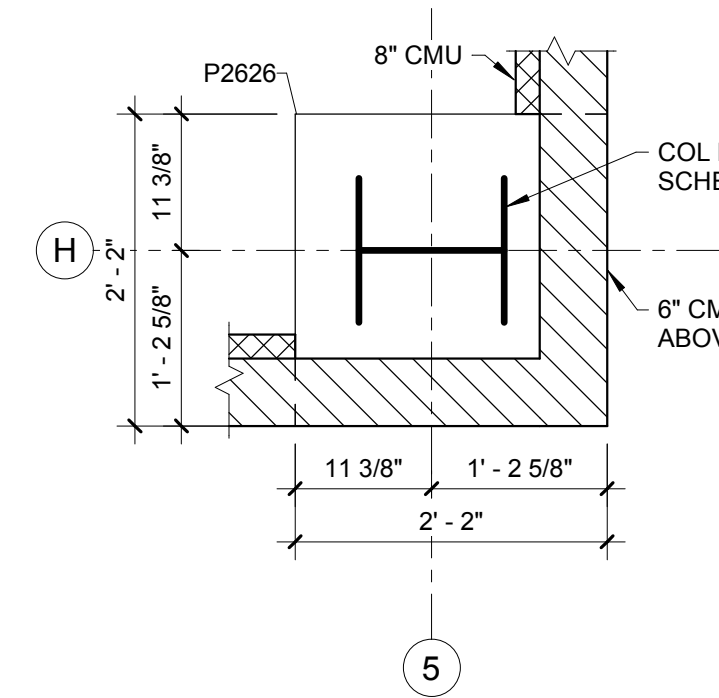
4 PIER DETAIL AT GRID C-6
S310 N.T.S.



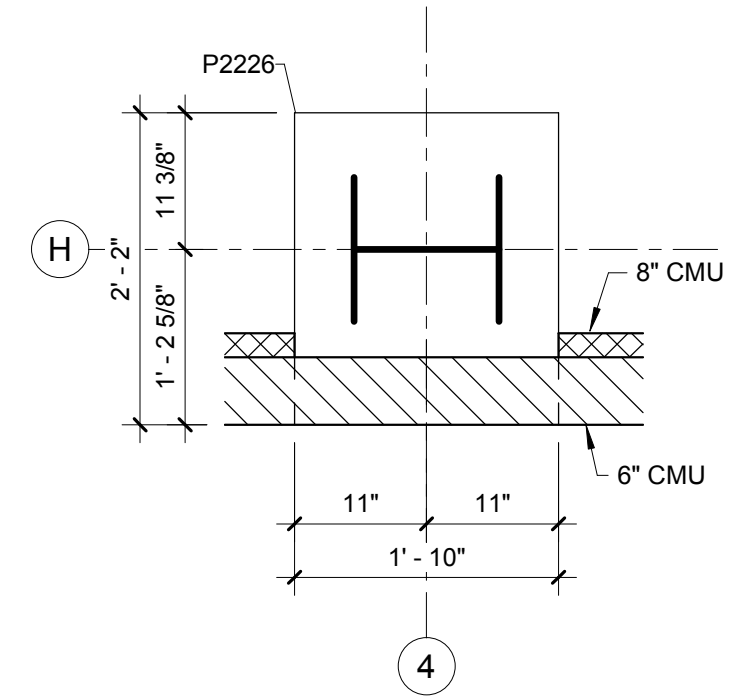
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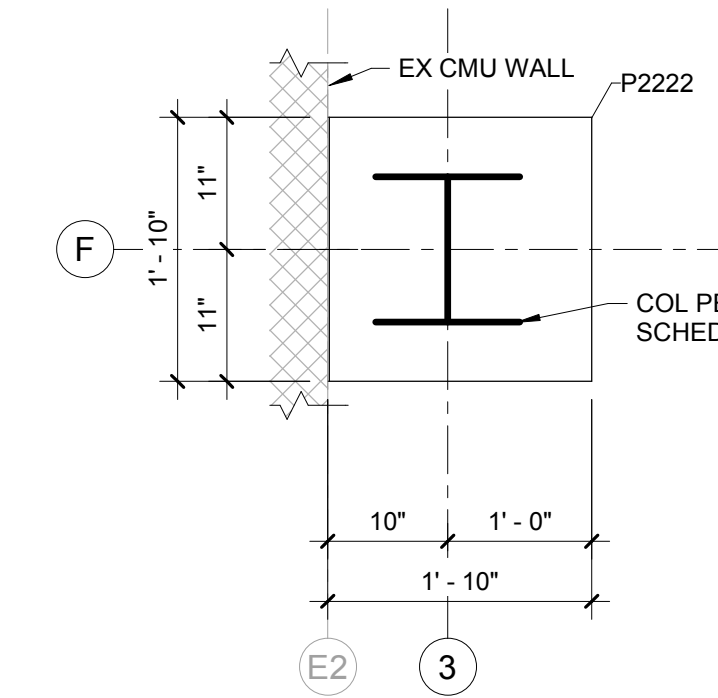
6 PIER DETAIL AT GRID G-5
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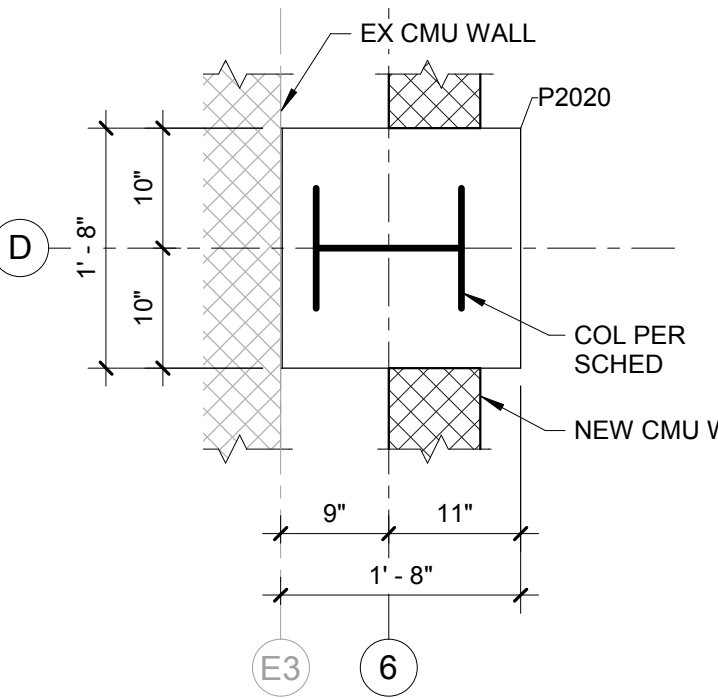
7 PIER DETAIL AT GRID H-5
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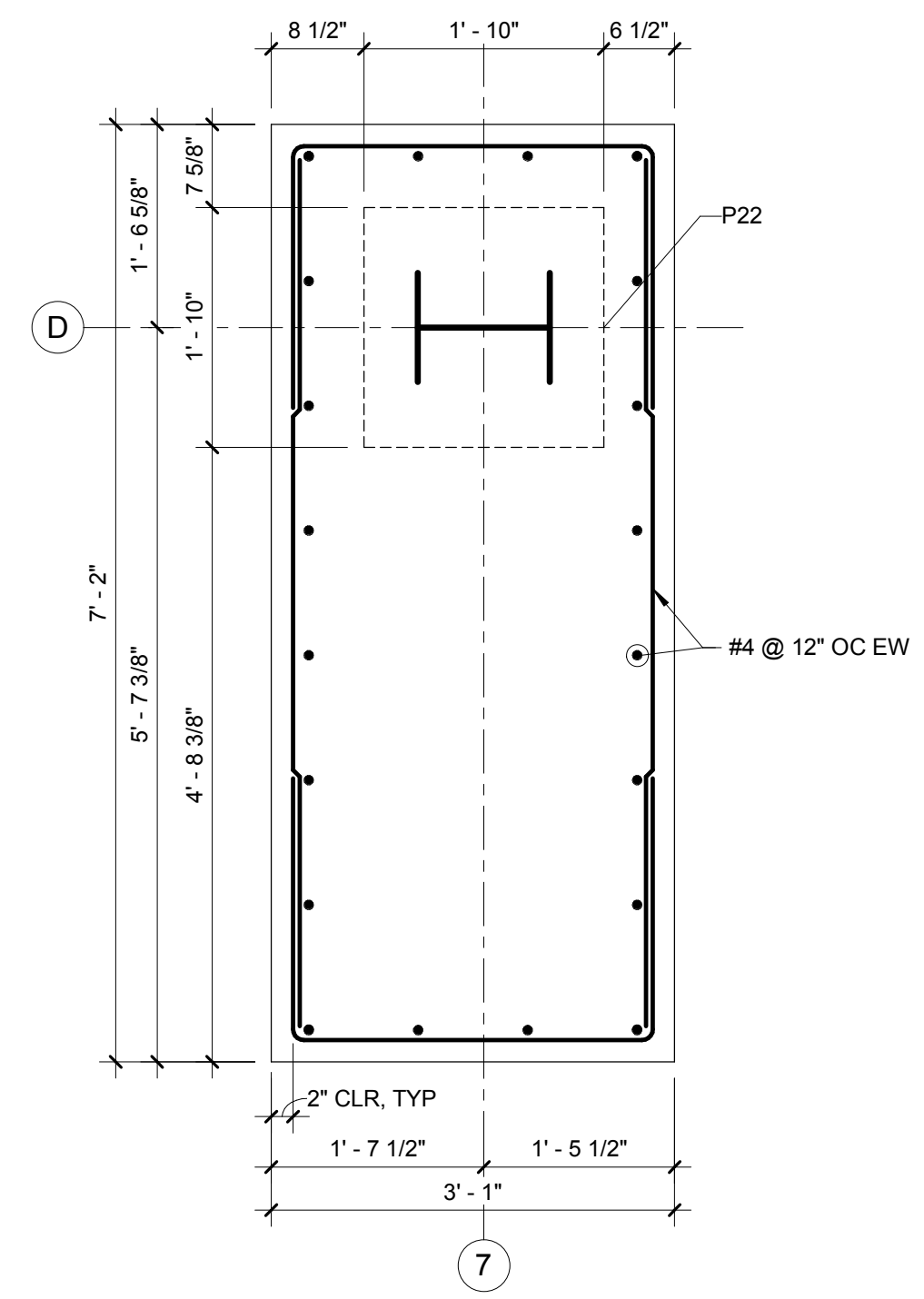
8 PIER DETAIL AT GRID H-4
S310 N.T.S.



9 PIER DETAIL AT GRID F-3
S310 N.T.S.



10 PIER DETAIL AT GRID D-6
S310 N.T.S.



11 PIER DETAIL AT GRID D-7
S310 N.T.S.



David A. Clark
CERTIFIED BY

ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

CMU WALL REINFORCEMENT SCHEDULE

MARK	SIZE	VERTICAL REINFORCEMENT	REMARKS
W1	8"	#5 @ 48" OC	
W2	6"	#5 @ 48" OC	

NOTES:

- SEE THE STRUCTURAL DRAWINGS, ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED HORIZONTAL (BOND BEAM AND JOINT) REINFORCEMENT AND REQUIRED ADDITIONAL VERTICAL REINFORCEMENT.
- PROVIDE MATCHING HOOKED DOWELS INTO THE FOUNDATION FOR ALL VERTICAL REINFORCEMENT. GROUT SOLID ALL CELLS CONTAINING VERTICAL REINFORCEMENT.
- WHERE INDICATED, POSITION DBL BAR REINFORCEMENT IN 12" CMU AS SHOWN. USE BAR POSITIONERS AS REQUIRED TO MAINTAIN PROPER ALIGNMENT.

CMU SHEARWALL SCHEDULE

MARK	CMU SIZE	APPROX. LENGTH	END ANCHORS	INTERIOR BARS	GROUT SPACING	HORIZONTAL REINFORCING
SW1	8"	PER PLAN	(1) #5	#5 @ 48" OC	AT VERT BARS	9 GA @ 16" OC
SW2	12"	PER PLAN	(1) #5	#5 @ 48" OC	AT VERT BARS	9 GA @ 16" OC

NOTES:

- SEE SHEARWALL PLAN FOR LOCATIONS.
- WHERE MULTIPLE END ANCHORS ARE REQUIRED, PLACE AT 8" OC IN SOLID GROUDED CORES.
- WHERE SHEARWALL REQUIREMENTS DIFFER FROM GENERAL REQUIREMENTS INDICATED ELSEWHERE, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
- USE BOND BEAM LINTELS FOR ALL OPENINGS WITHIN OR TYING INTO SHEARWALLS. UNO.

PRESCRIPTIVE LINTEL SCHEDULE

GENERAL NOTE: PROVIDE LINTELS IN THIS SCHEDULE FOR MASONRY OPENINGS WHERE SPECIFIC LINTELS (L#) ARE NOT OTHERWISE INDICATED. WHERE A SPECIFIC LINTEL (L#) IS INDICATED FOR A PARTICULAR OPENING, PROVIDE THE SPECIFIC LINTEL (L#). FOR OPENINGS BEYOND THE LIMITS AND/OR MATERIALS IDENTIFIED IN THIS SCHEDULE WHERE SPECIFIC LINTELS (L#) ARE NOT OTHERWISE INDICATED, CONTACT THE STRUCTURAL ENGINEER FOR REQUIRED LINTEL SIZE AND TYPE.

SECTION	CLEAR OPENING	TYPE	NOTES
W x 8 H (NOMINAL) CMU	UP TO 4'-0"	PLA	6", 8", 10", 12" CMU
W x 16 H (NOMINAL) CMU	>4'-0" UP TO 6'-0"	PLA	6", 8", 10", 12" CMU
W x 24 H (NOMINAL) CMU	>6'-0" UP TO 8'-0"	PLA	6", 8", 10", 12" CMU
L3 1/2 x 3 1/2 x 5/16	UP TO 4'-0"	PLB	4" MASONRY VENEER
L5 x 3 1/2 x 5/16 (LLV)	>4'-0" UP TO 8'-0"	PLB	4" MASONRY VENEER
L6 x 3 1/2 x 5/16 (LLV)	>6'-0" UP TO 8'-0"	PLB	4" MASONRY VENEER

TYPES:

PRESCRIPTIVE LINTEL SCHEDULE NOTES:

- ALL LINTELS BEAR 0'-8" ONTO SUPPORTING WALLS. UNO.
- ALL STEEL LINTELS IN EXTERIOR WALLS SHALL BE GALVANIZED.

MASONRY REINFORCING STEEL LAP SPLICE CHART

BAR SPLICE LENGTHS

BAR	UNCOATED BARS		EPOXY-COATED BARS	
	TYPE 1.0LD	TYPE 1.5LD	TYPE 1.0LD	TYPE 1.5LD
#3	20"	36"	29"	54"
#4	26"	48"	39"	72"
#5	32"	60"	48"	90"
#6	39"	72"	58"	108"
#7	45"	84"	68"	126"
#8	52"	96"	77"	144"
#9	58"	109"	87"	164"

NOTES:

- ALL SPLICES ARE TYPE 1.0LD UNO.
- BARS LARGER THAN #8 ARE REQUIRED TO BE SPLICED BY MECHANICAL CONNECTORS. UNO.
- SPLICES BASED ON $F_y = 32,000$ PSI AND $F_m \geq 1500$ PSI.
- ALL BARS ARE UNCOATED. UNO.
- USE EPOXY-COATED BARS ONLY IN PARKING STRUCTURE MASONRY WHERE SPECIFICALLY INDICATED. UNO.

LINTEL SCHEDULE

MARK	SECTION	LENGTH	TYPE	NOTES
L1	W x 8 H (NOMINAL) CMU	PER ARCH	B	
L2	W x 16 H (NOMINAL) CMU	PER ARCH	B	
L3	W x 24 H (NOMINAL) CMU	PER ARCH	B	
L4	L3 1/2 x 3 1/2 x 5/16	PER ARCH	A	
L5	L5 x 3 1/2 x 5/16 (LLV)	PER ARCH	A	
L6	L6 x 3 1/2 x 5/16 (LLV)	PER ARCH	A	
L7	W x 24 H (NOMINAL) CMU + L5 x 7 x 3/8 (LLH)	PER ARCH	C	
L8	WBX28 + PL3/8 x 1-1/2" WIDE	PER ARCH	D	

TYPES:

LINTEL SCHEDULE NOTES:

- ALL LINTELS BEAR 0'-8" ONTO SUPPORTING WALLS. UNO.
- ALL STEEL LINTELS AND SHELF ANGLES IN EXTERIOR WALLS SHALL BE GALVANIZED.
- BOTTOM PLATES SHALL EXTEND THE FULL LENGTH OF THE LINTEL, INCLUDING BEARING LENGTH. UNO.
- AT CMU INFILL (SOAPS) AT STEEL LINTELS, PROVIDE METAL ANCHORAGE AT EVERY COURSE @ 16" OC TO TIE CMU TO STEEL.

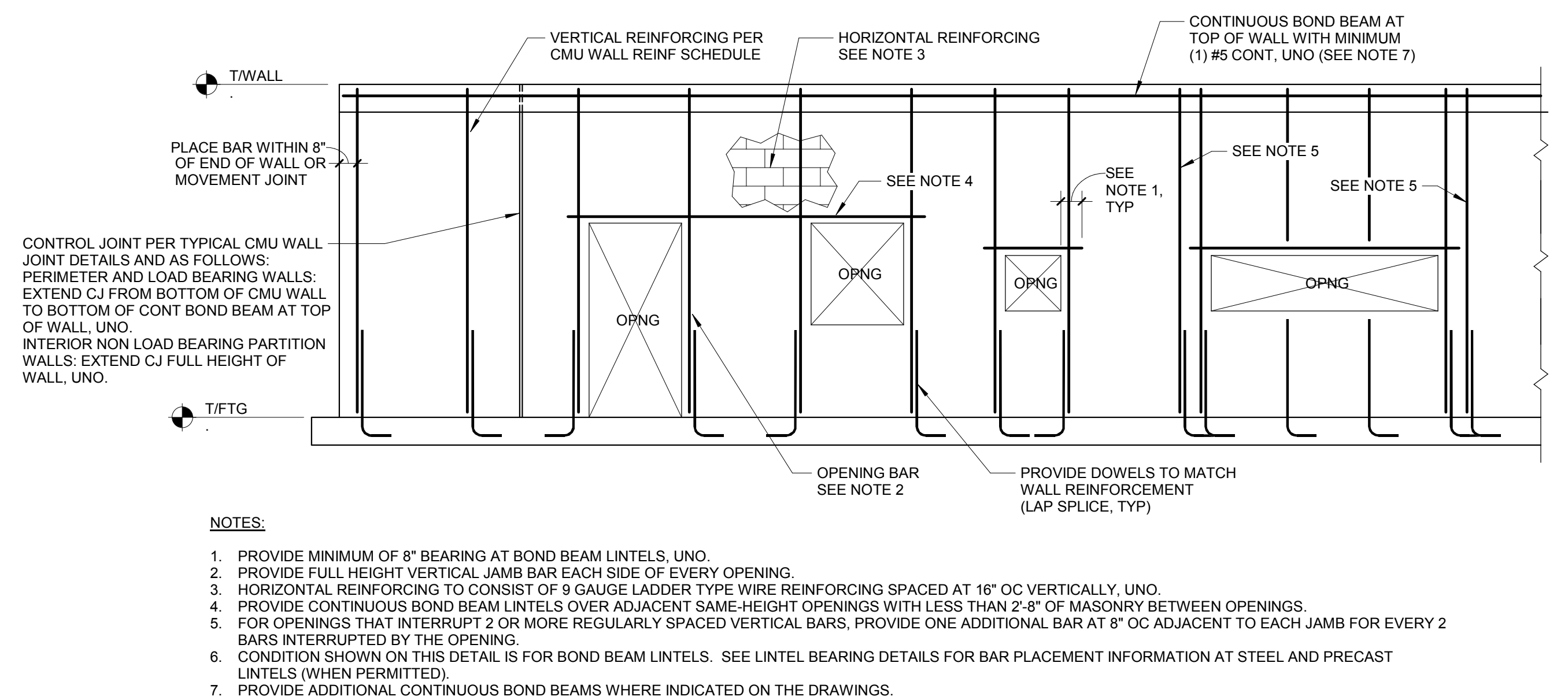
1 CMU WALL REINFORCEMENT SCHEDULE
S401 N.T.S.

2 CMU SHEARWALL SCHEDULE
S401 N.T.S.

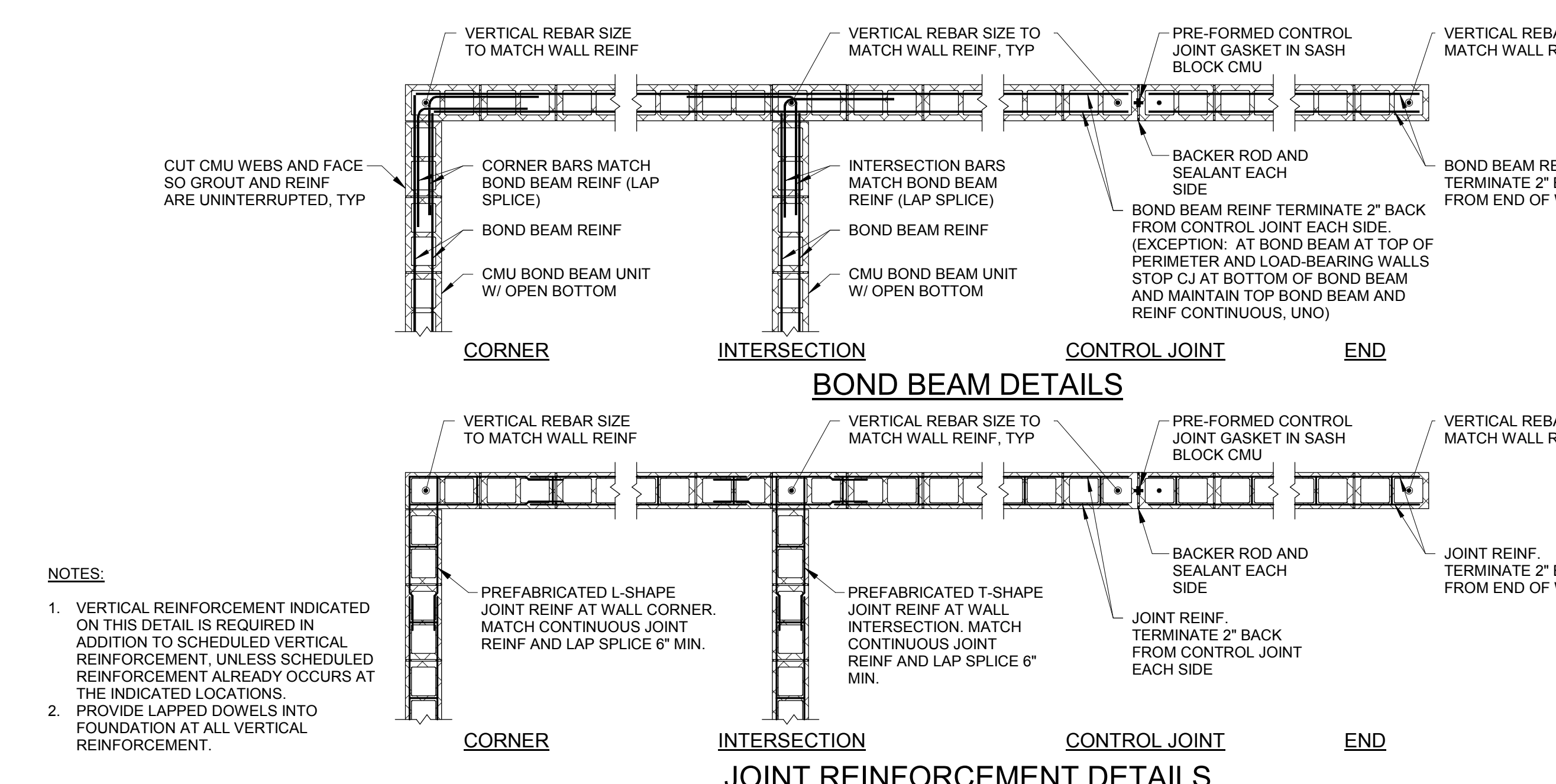
3 PRESCRIPTIVE LINTEL SCHEDULE
S401 N.T.S.

4 MASONRY LAP SPLICE TABLE
S401 N.T.S.

5 LINTEL SCHEDULE
S401 N.T.S.

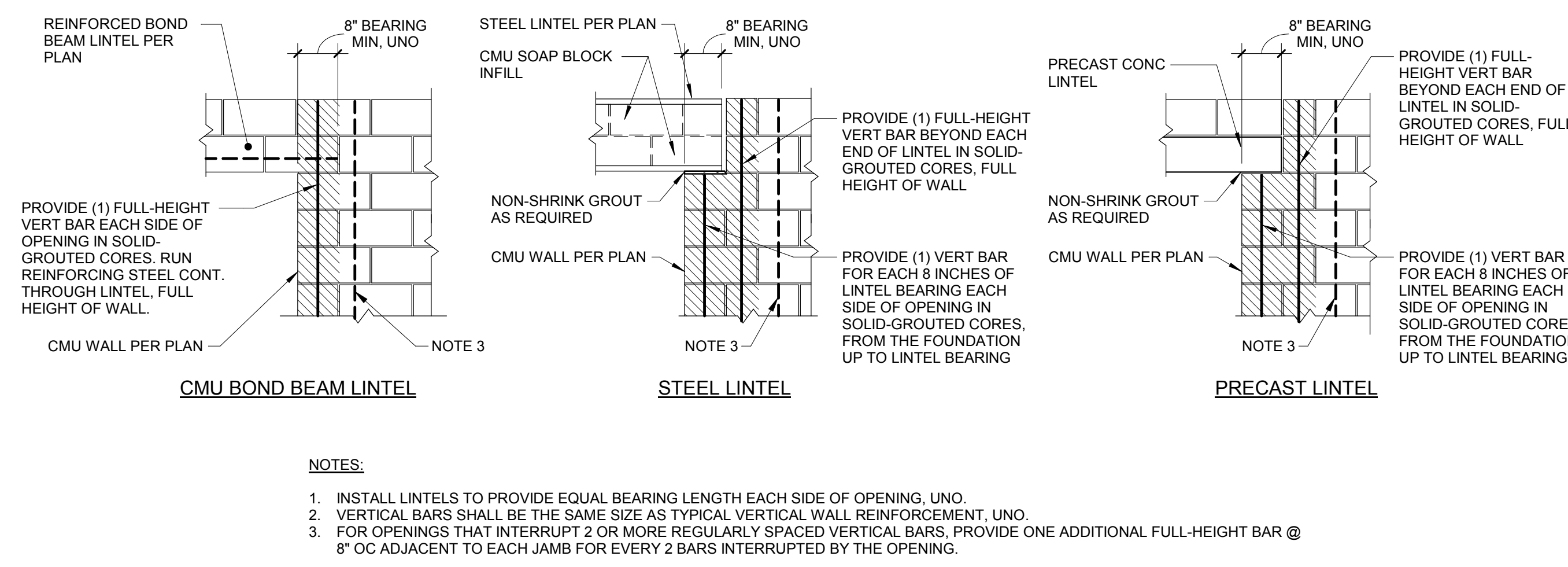


6 TYPICAL REINFORCING AT CMU WALLS DETAIL
S401 N.T.S.

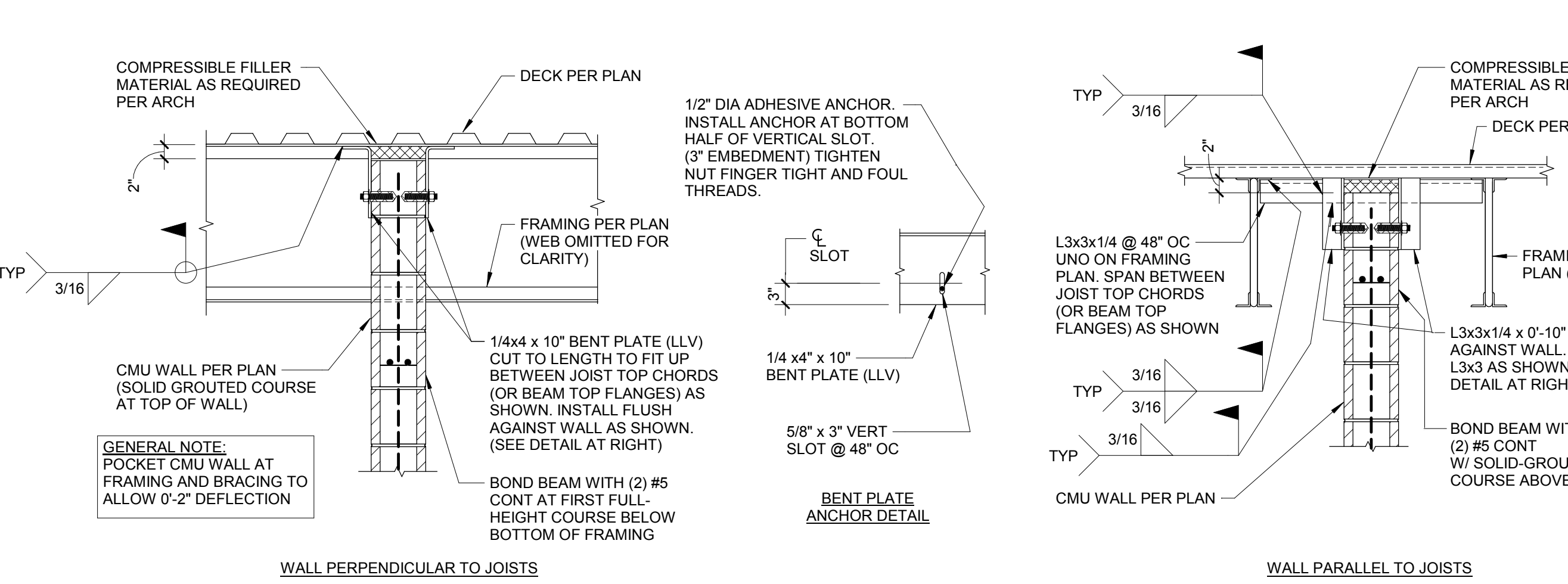


7 TYPICAL CMU WALL JOINT DETAILS
S401 N.T.S.

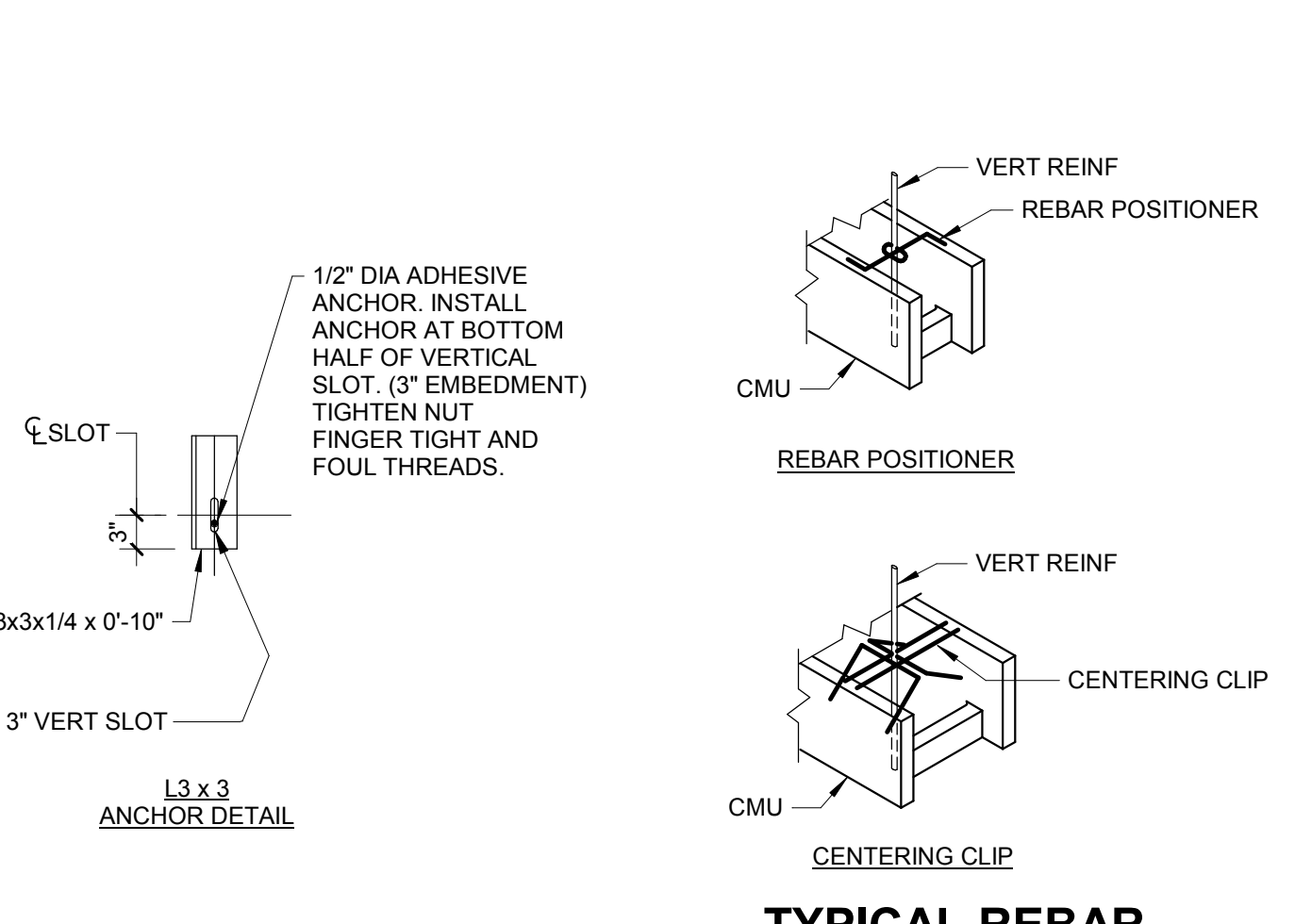
8 POST-INSTALLED ANCHORS IN CMU WALLS
S401 N.T.S.



9 TYPICAL LINTEL BEARING DETAILS
S401 N.T.S.



10 TYPICAL SHEAR WALL ANCHORAGE AT JOISTS DETAIL
S401 N.T.S.



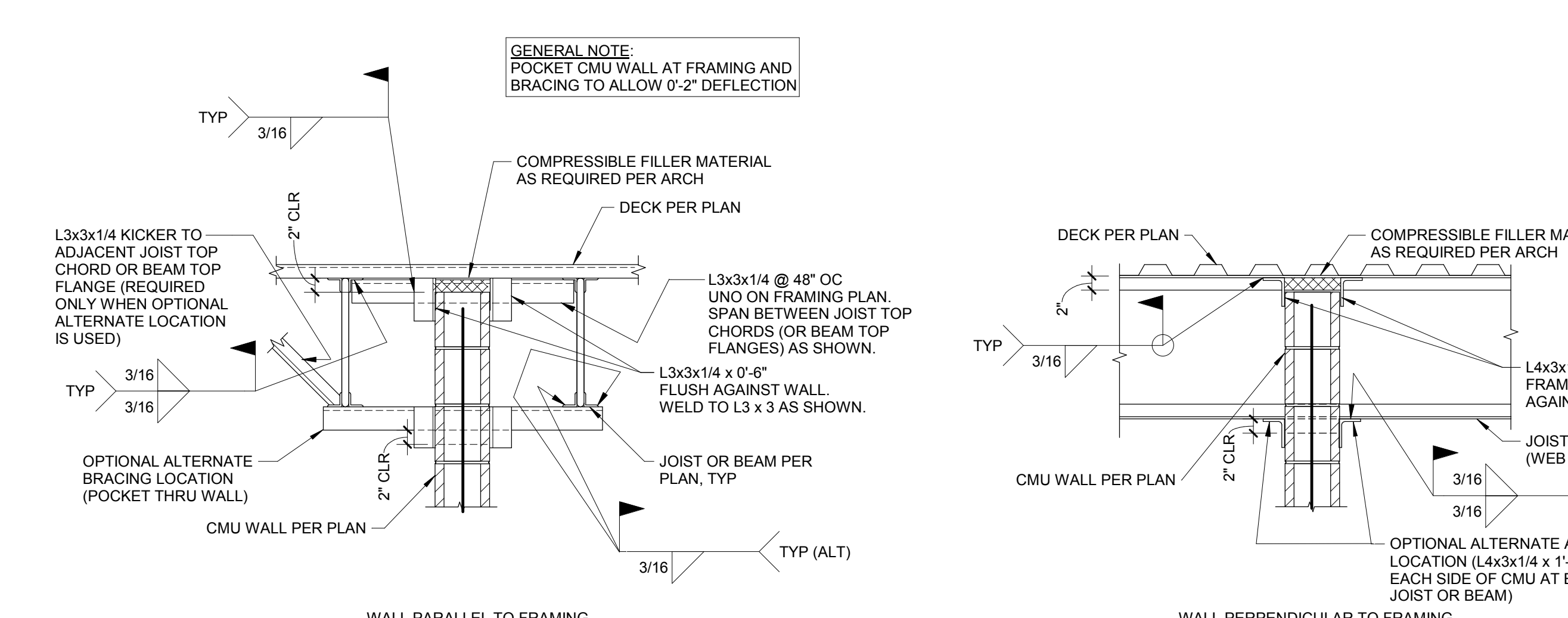
11 TYPICAL REBAR POSITIONERS DETAIL
S401 N.T.S.

CMU PARTITION WALL BRACING SCHEDULE

CMU SIZE	INTERSECTING WALL MAX SPACING	MAX BRACE SPACING	REMARKS
4"	10'-0"	4'-0"	
6"	15'-4"	6'-0"	
8"	18'-0"	6'-0"	

NOTE: PROVIDE BRACING AS SHOWN FOR ALL CMU PARTITION WALLS (WHICH ARE NOT OTHERWISE BRACED AT TOP) AT ALL LOCATIONS WHERE THE DISTANCE BETWEEN INTERSECTING WALLS EXCEEDS THE MAXIMUM SPACING SHOWN.

13 TYPICAL FULL-HEIGHT CMU PARTITION WALL BRACING TO ROOF DECK DETAIL
S401 N.T.S.



14 TYPICAL FULL-HEIGHT CMU PARTITION WALL BRACING TO JOIST / BEAM DETAIL
S401 N.T.S.

CMU PARTITION WALL BRACING SCHEDULE

CMU SIZE	INTERSECTING WALL MAX SPACING	MAX BRACE SPACING	REMARKS
4"	10'-0"	4'-0"	
6"	15'-4"	6'-0"	
8"	18'-0"	6'-0"	

NOTE: PROVIDE BRACING AS SHOWN FOR ALL CMU PARTITION WALLS (WHICH ARE NOT OTHERWISE BRACED AT TOP) AT ALL LOCATIONS WHERE THE DISTANCE BETWEEN INTERSECTING WALLS EXCEEDS THE MAXIMUM SPACING SHOWN.

PORTER COUNTY
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7260 Shadeland Station
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P: 317.547.5590
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Merrillville, IN 46410
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E: dmranderson@skillman.com

PORTER COUNTY - NORTH ANNEX
PORTAGE, IN

DAVID A. CLARK
REGISTERED
No. PE11200028
STATE OF INDIANA
PROFESSIONAL ENGINEER

CERTIFIED BY
David A. Clark

ISSUANCE INDEX

DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE

NO.	DESCRIPTION	DATE
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Project Number 2017.01279

CMU SCHEDULES, SECTIONS, AND DETAILS

S401

STEEL DECK SCHEDULE

MARK	HEIGHT	GAUGE	TYPE	FINISH	SUPPORT FASTENER TYPE	PERIMETER SUPPORT FASTENER PATTERN	INTERIOR SUPPORT FASTENER PATTERN	SIDLAP FASTENER TYPE	SIDLAP FASTENER PATTERN	NOTES
D1	1-1/2"	22 GA	TYPE B	PAINTED	5/8" DIA PUDDLE WELDS	SEE BELOW	36/4	#10 TEK SCREWS	2 PER SPAN	

1-1/2" DECK FASTENER PATTERN DIAGRAM

SUPPORT FASTENER PATTERN DEFINITION

- 36/7 PATTERN
- 36/5 PATTERN
- 36/4 PATTERN
- 36/3 PATTERN

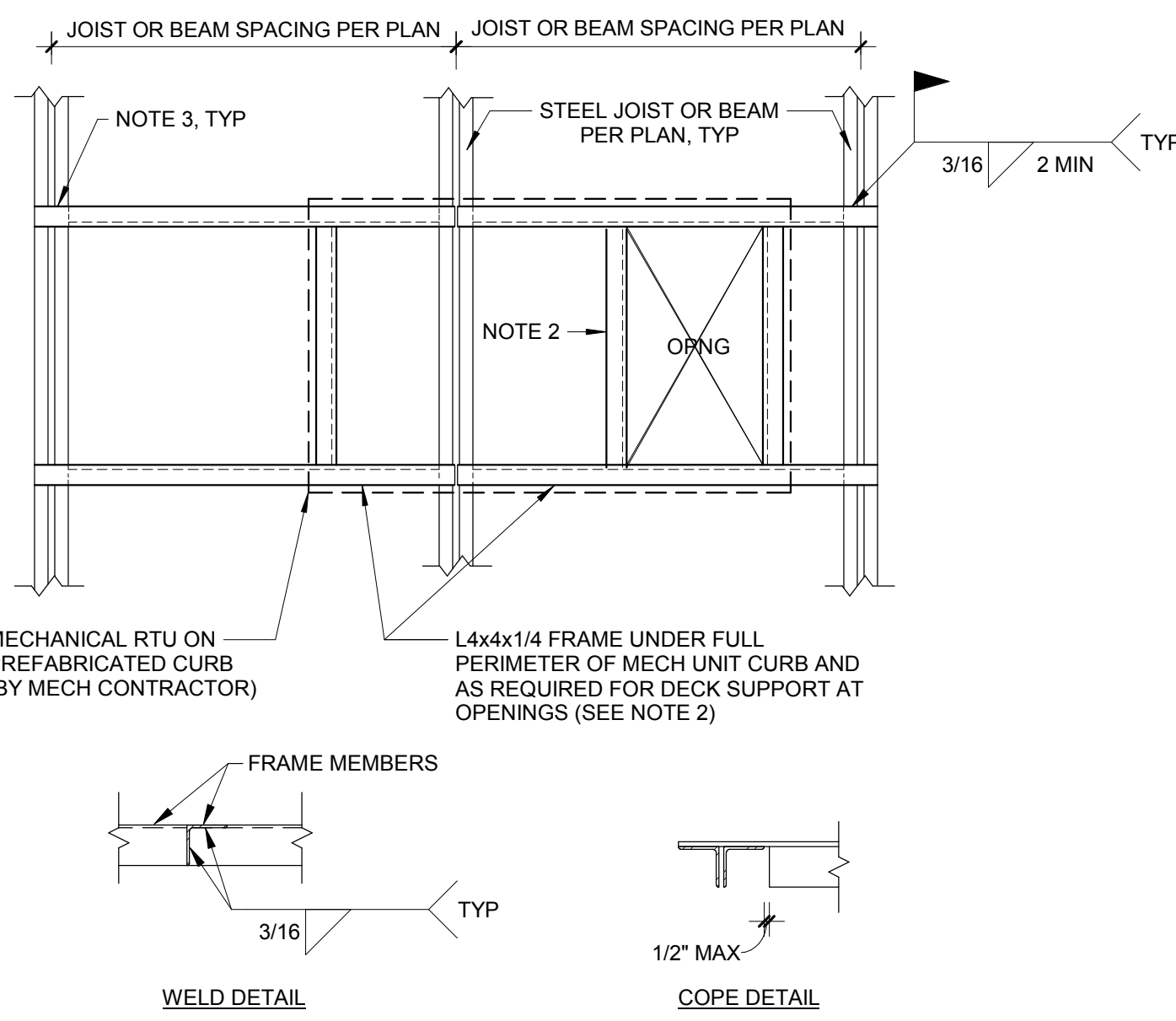
DECK PERPENDICULAR TO SUPPORT

DECK PARALLEL TO SUPPORT

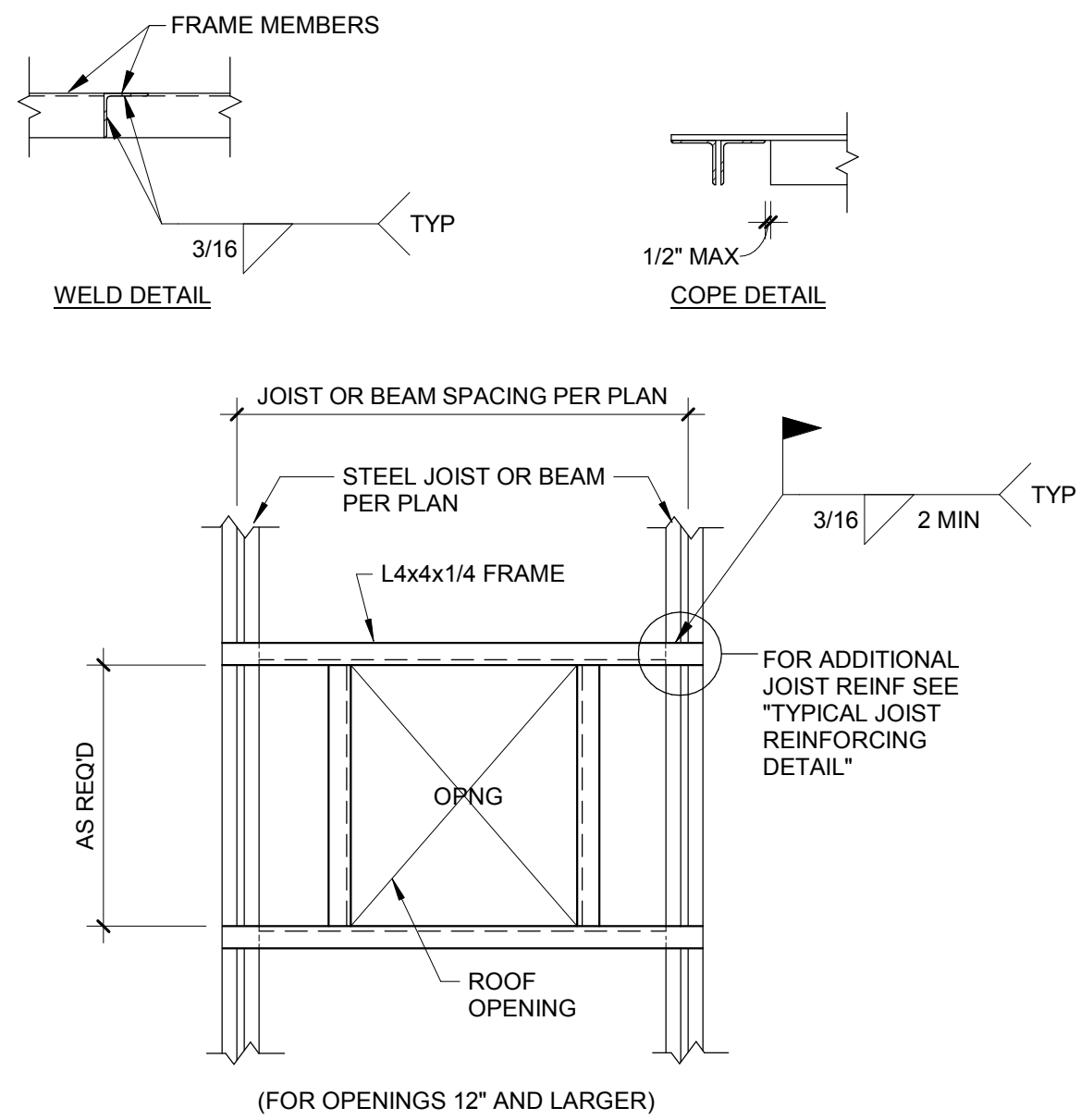
PERIMETER SUPPORT FASTENERS

NOTES:

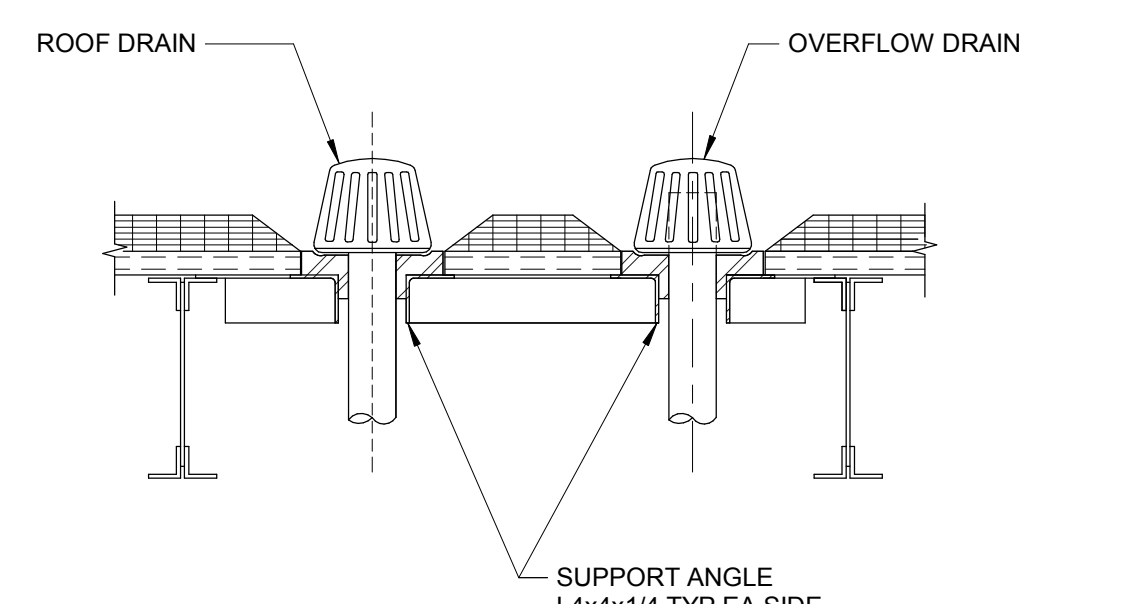
- FASTEN THROUGH MULTIPLE SHEETS AT ALL END AND SIDE LAPS.
- END LAPS SHALL OCCUR ONLY AT SUPPORT POINTS.
- DECK SHALL BE INSTALLED IN A MINIMUM THREE SPAN CONDITION WHEREVER POSSIBLE. WHERE THREE SPAN CONDITION IS NOT POSSIBLE, NOTIFY STRUCTURAL ENGINEER PRIOR TO FABRICATION OF DECK SO THAT EVALUATION OF THE LESSER SPAN CONDITION(S) CAN BE PERFORMED.



- NOTES:**
- COORDINATE UNIT SIZE, LOCATION AND REQUIRED OPENINGS WITH MECHANICAL CONTRACTOR PRIOR TO FABRICATION. FASTEN DECK TO OPENING FRAME @ 6" OC MAX AROUND UNIT PERIMETER AND AROUND PERIMETER OF ALL OPENINGS.
 - PROVIDE SUPPLEMENTAL DECK SUPPORT ANGLE AT OPENINGS IF DECK CANTILEVER SPAN EXCEEDS 1'-0".
 - FOR FRAME ANGLE BEARING LOCATIONS ON STEEL JOISTS THAT DO NOT OCCUR AT PANEL POINTS, SEE "TYPICAL JOIST REINFORCING DETAIL" FOR REINFORCING REQUIREMENTS.



3 TYPICAL ROOF OPENING DETAIL
S501 N.T.S.

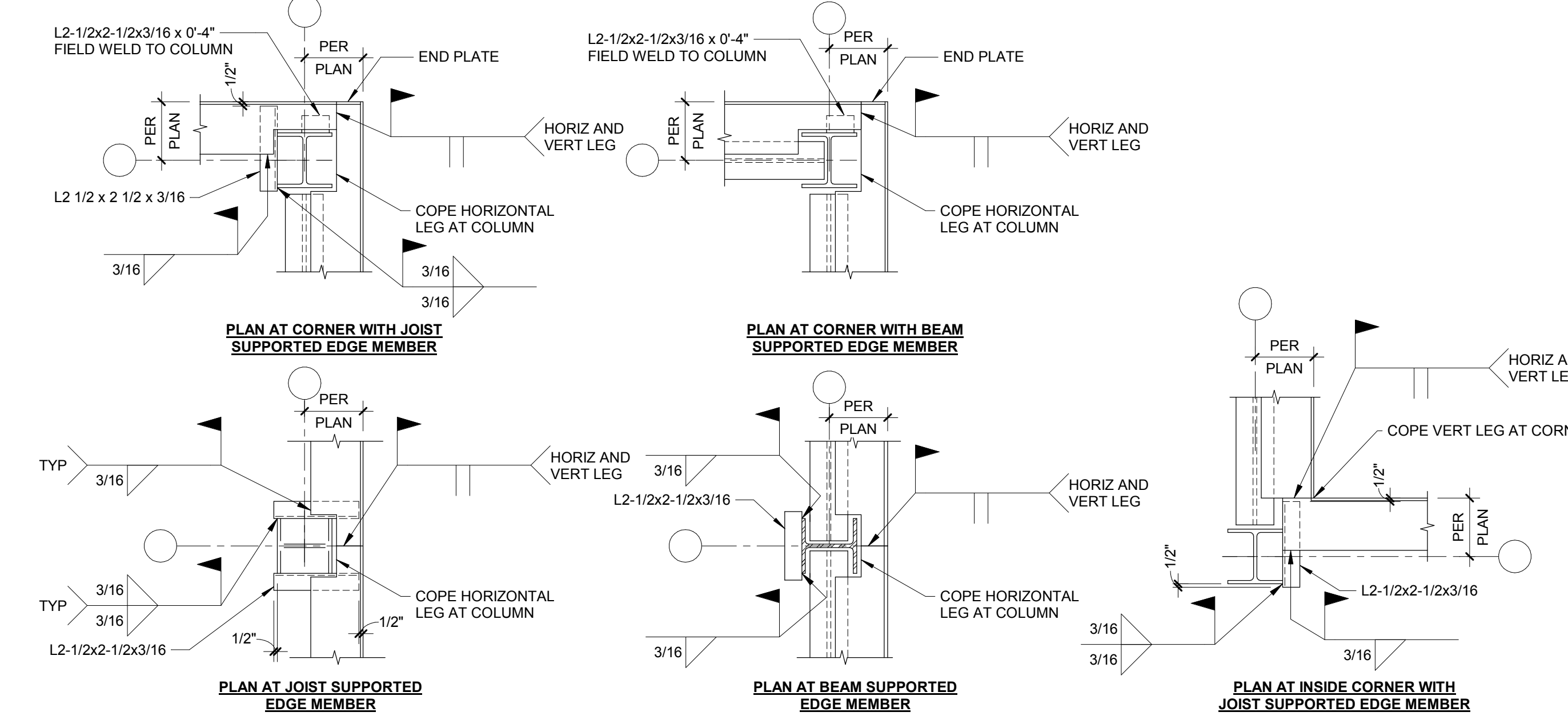


- NOTES:**
- COORDINATE QUANTITY AND LOCATION OF ALL ROOF DRAINS WITH PLUMBING AND ARCHITECTURAL DRAWINGS.
 - COORDINATE ROOF DRAIN ASSEMBLIES WITH PLUMBING CONTRACTOR AND PROVIDE AND INSTALL ALL STEEL FRAMING (AND GALVANIZED METAL SUMP PANS IF REQUIRED) AS NECESSARY FOR COMPLETE SUPPORT OF ALL ROOF DRAIN ASSEMBLIES.

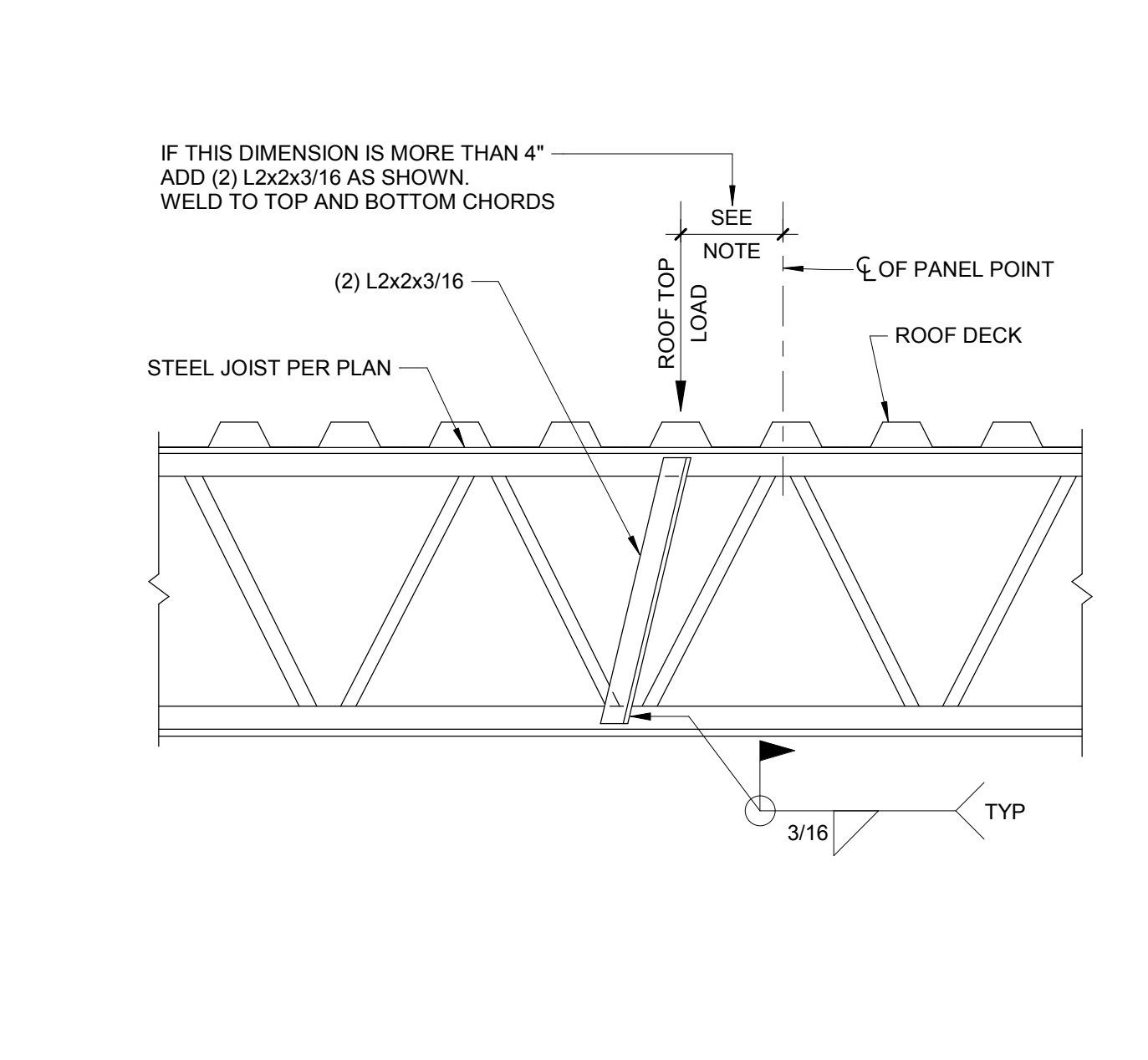
4 TYPICAL ROOF DRAIN SUPPORT WITH OVERFLOW DRAIN
S501 N.T.S.

1 STEEL DECK SCHEDULE
S501 N.T.S.

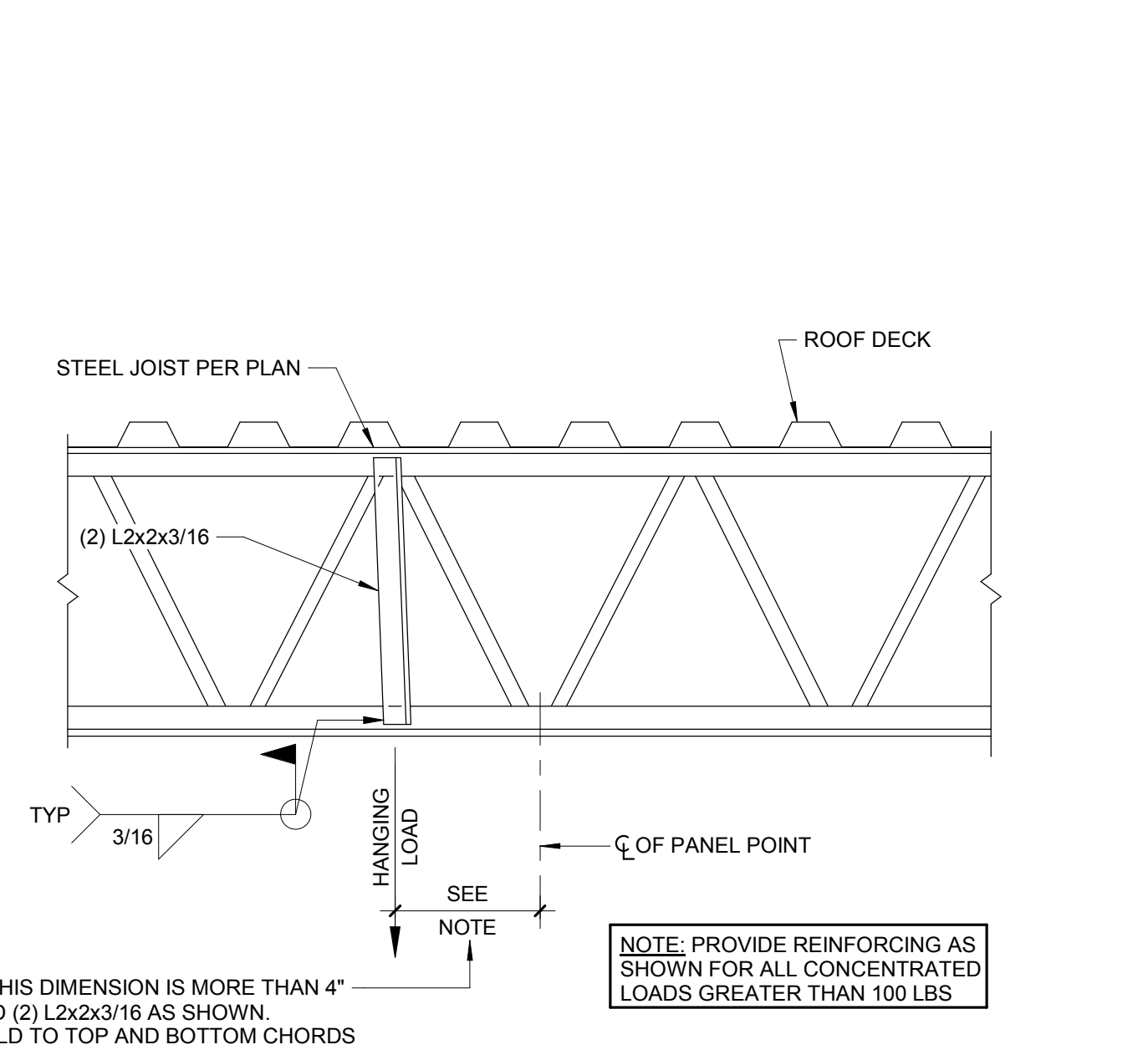
2 TYPICAL RTU SUPPORT DETAIL
S501 N.T.S.



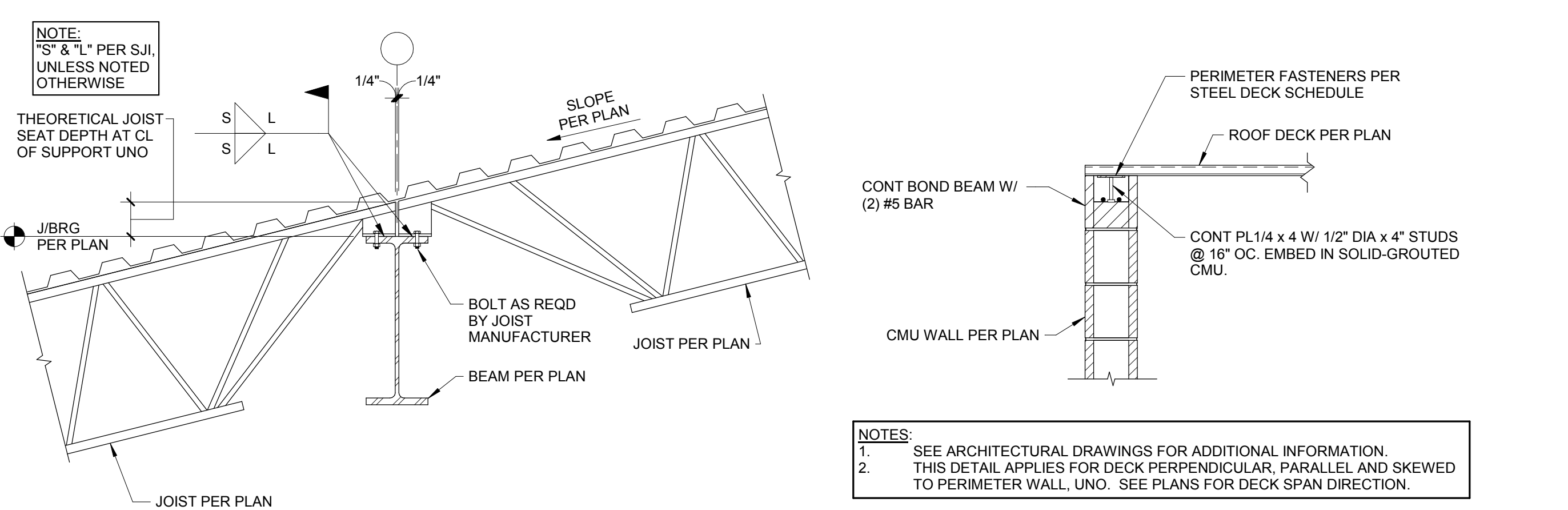
5 TYPICAL EDGE ANGLE / BENT PLATE SUPPORT AT COLUMNS DETAIL
S501 N.T.S.



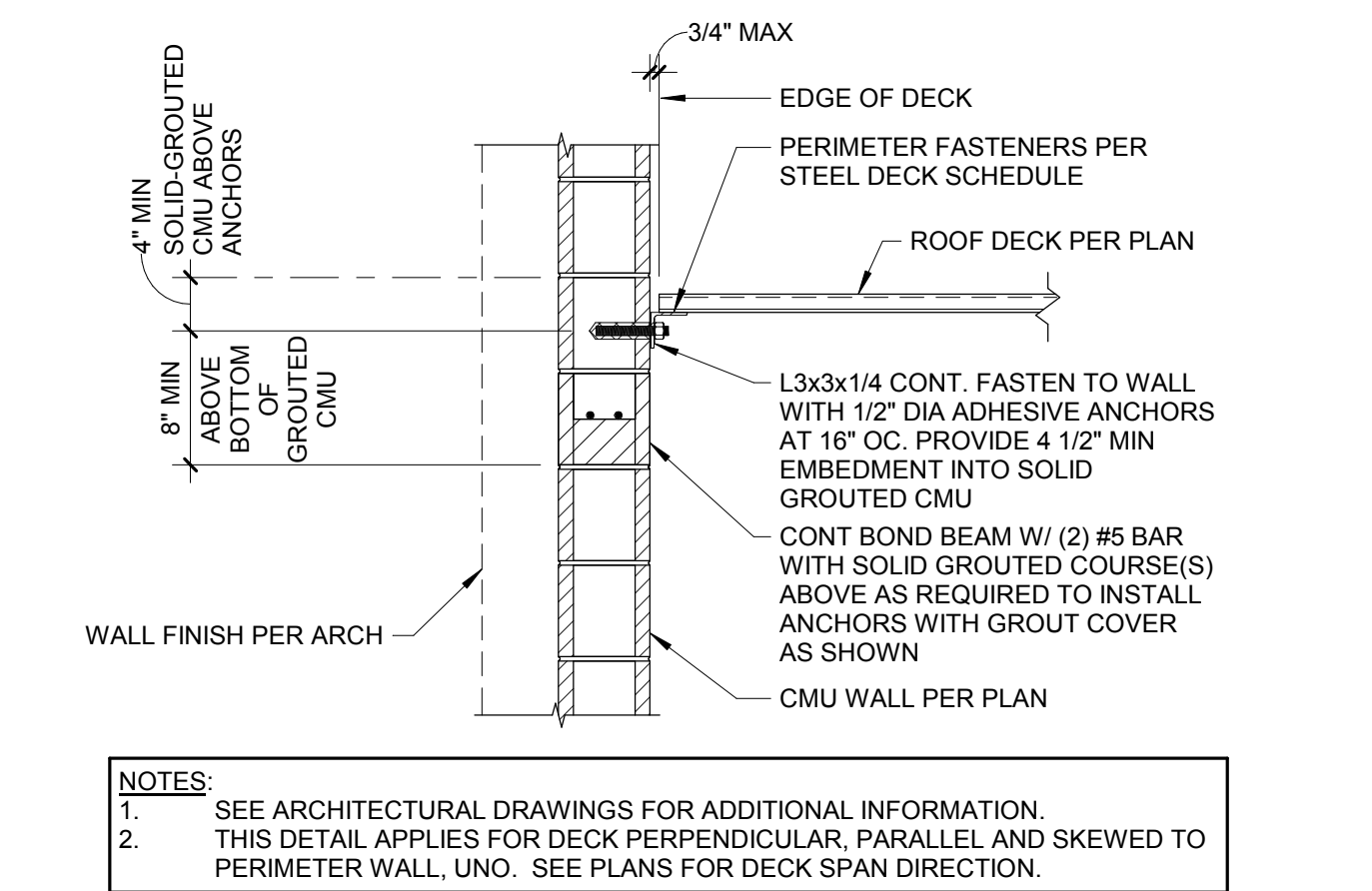
6 TYPICAL JOIST REINFORCING DETAIL
S501 N.T.S.



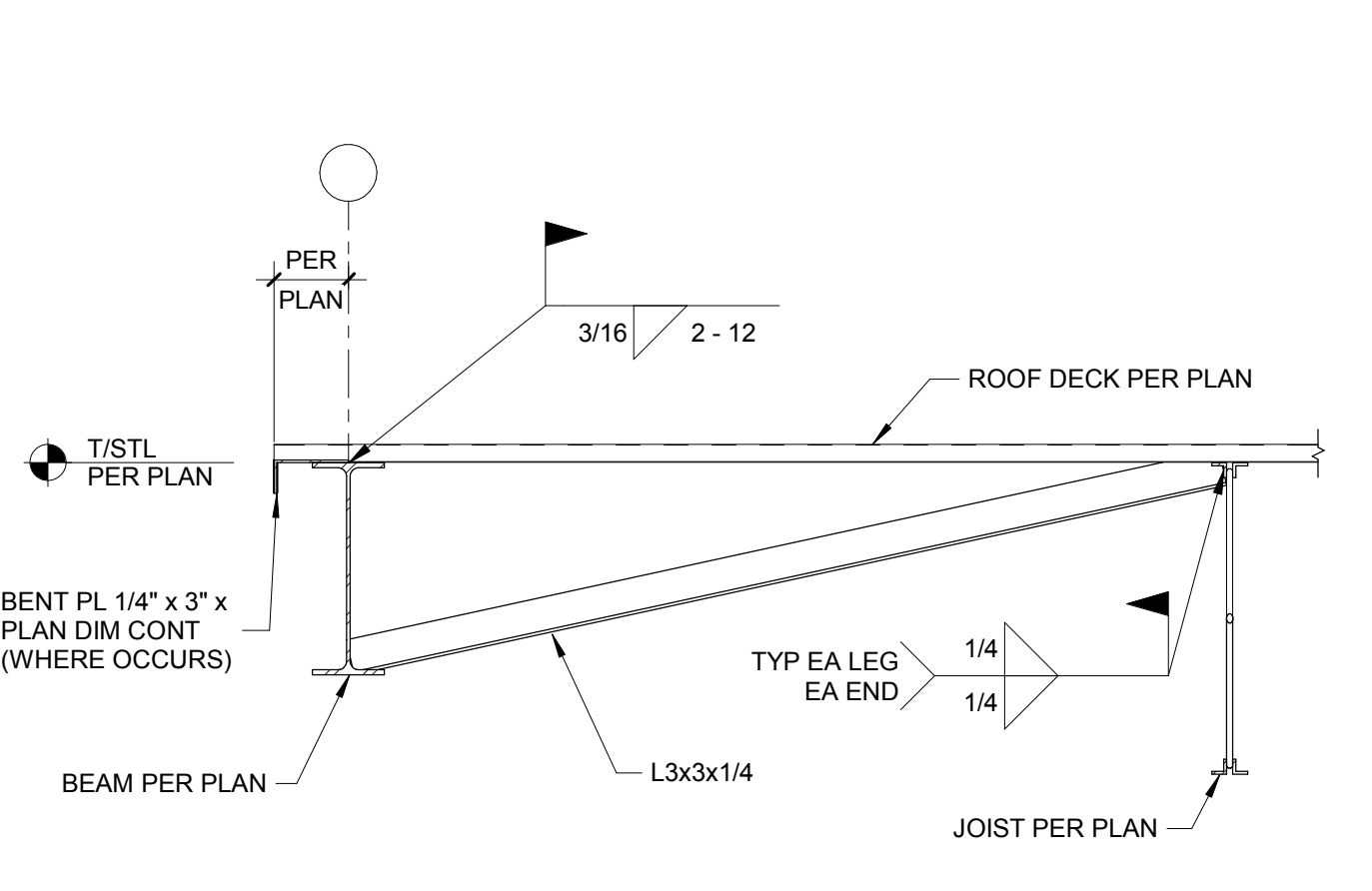
7 TYPICAL JOIST BEARING AT BEAM DETAIL
S501 N.T.S.



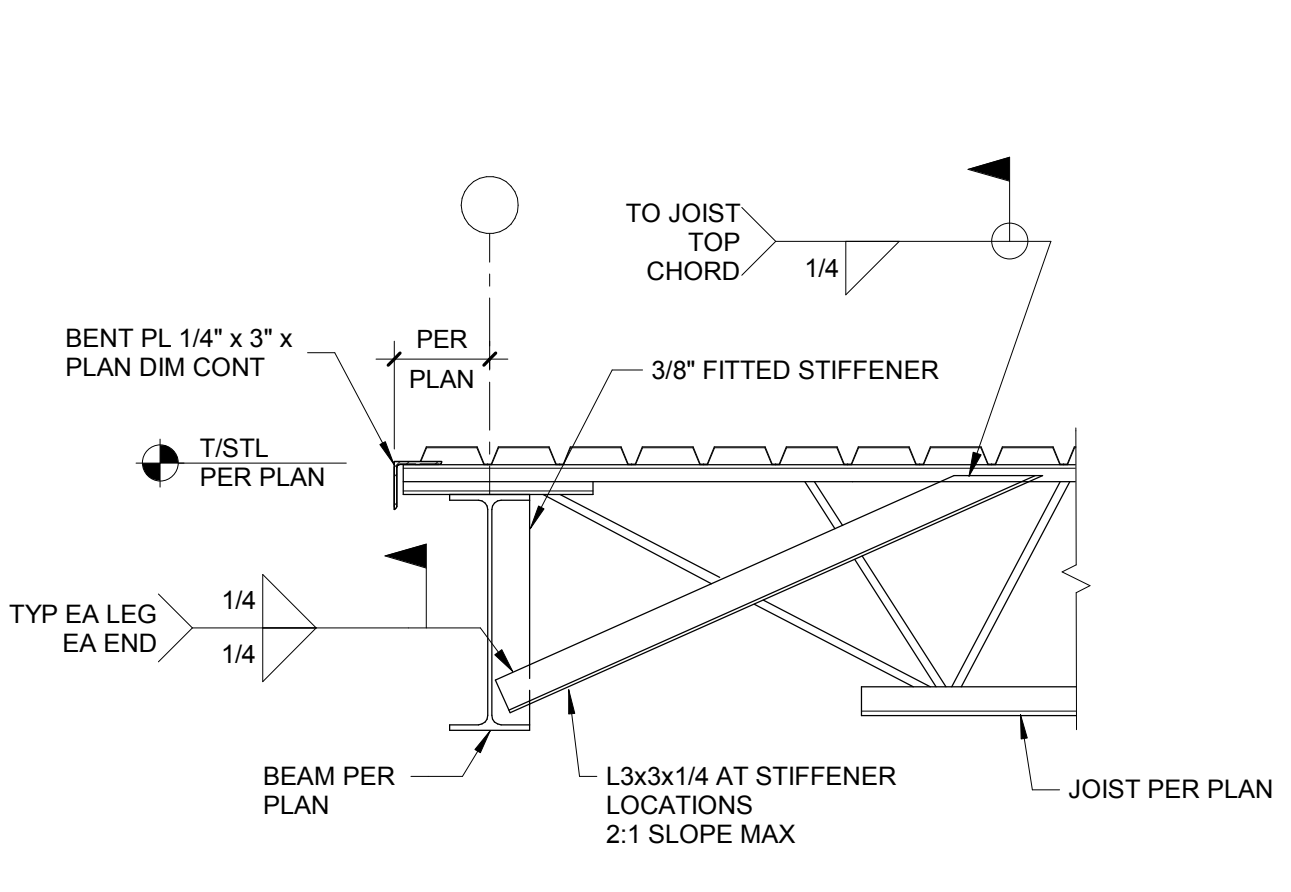
9 TYPICAL SLOPED JOIST BEARING AT BEAM DETAIL
S501 N.T.S.



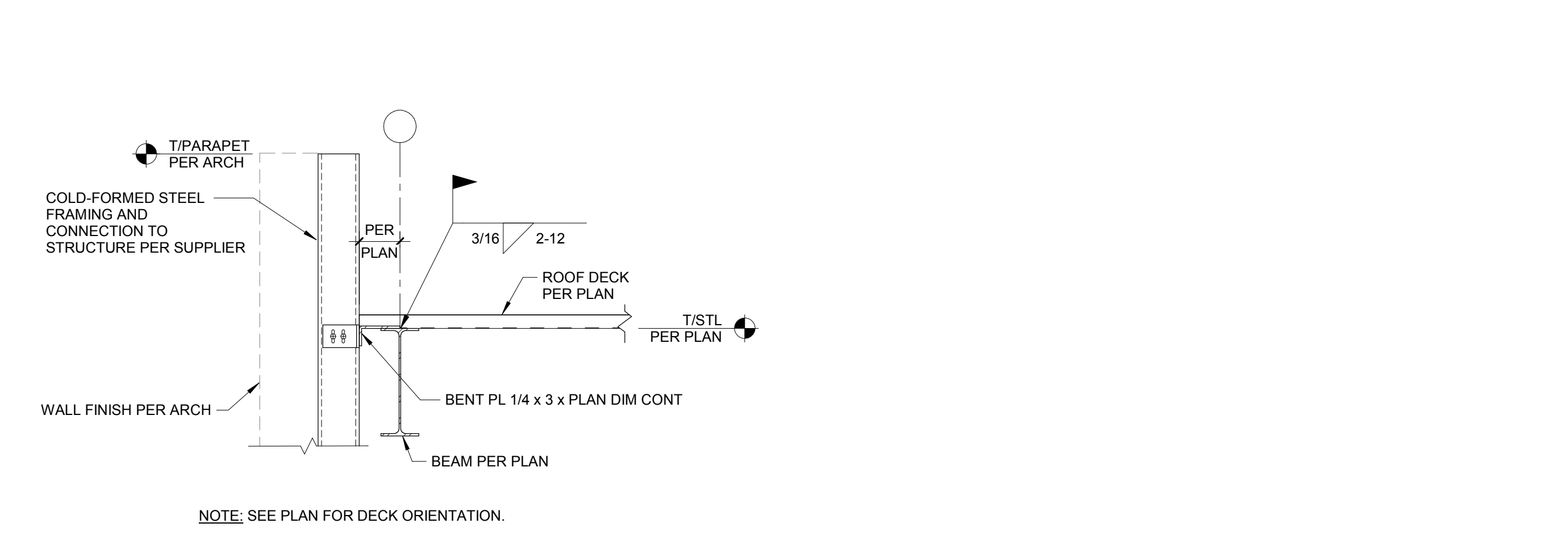
10 TYPICAL ROOF DECK BEARING ON CMU WALL DETAIL
S501 N.T.S.



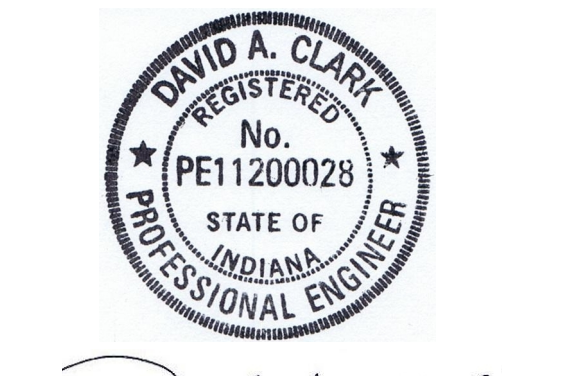
12 BOTTOM FLANGE BRACING AT ROOF (DECK PARALLEL) DETAIL
S501 N.T.S.



13 BOTTOM FLANGE BRACING AT ROOF (DECK PERPENDICULAR) DETAIL
S501 N.T.S.



14 SECTION
S501 N.T.S.



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ISSUANCE INDEX

DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE

NO.	DESCRIPTION	DATE



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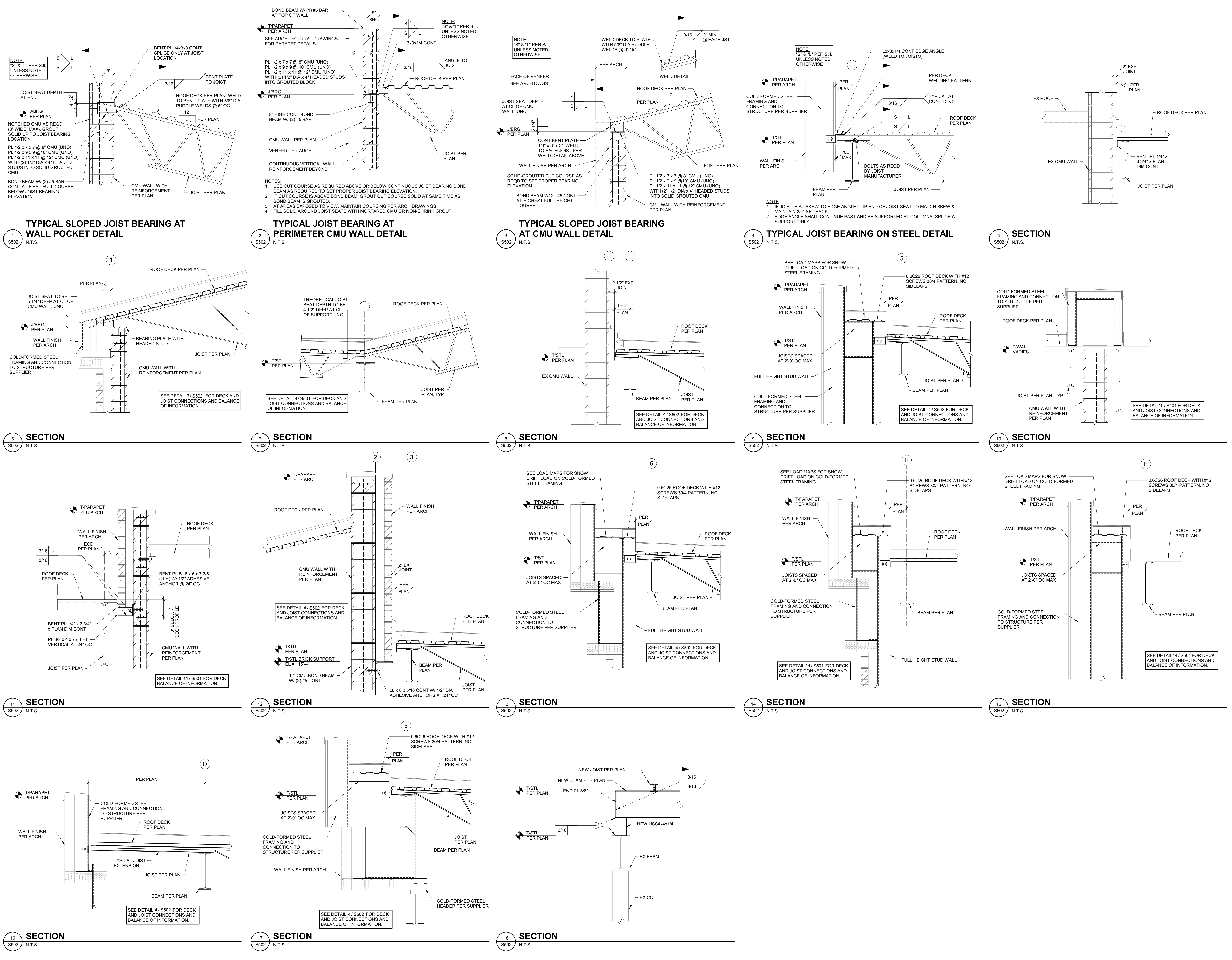
ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

STEEL SECTIONS AND DETAILS

S502



8/17/2018 2:30:43 PM



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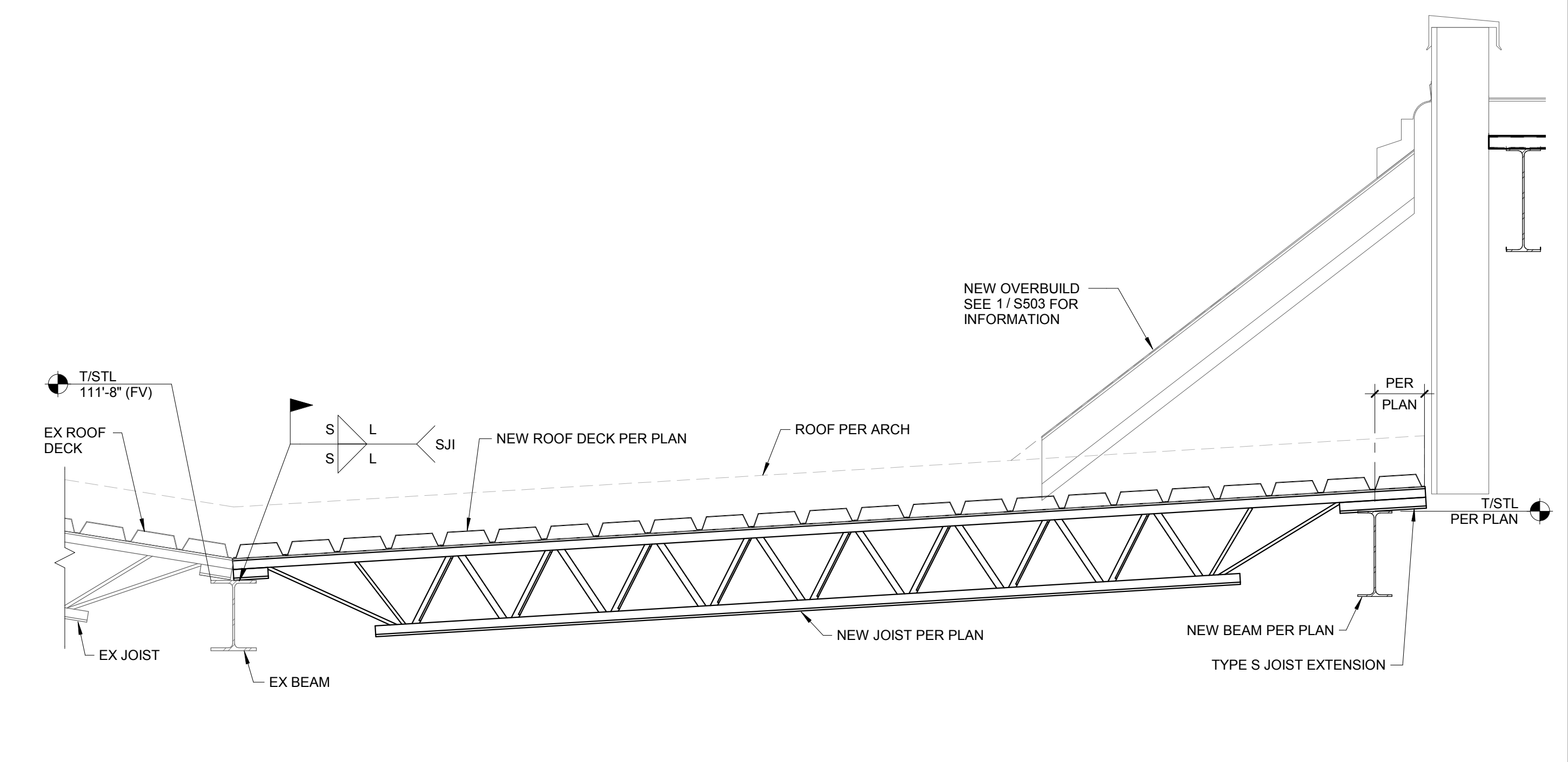
ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

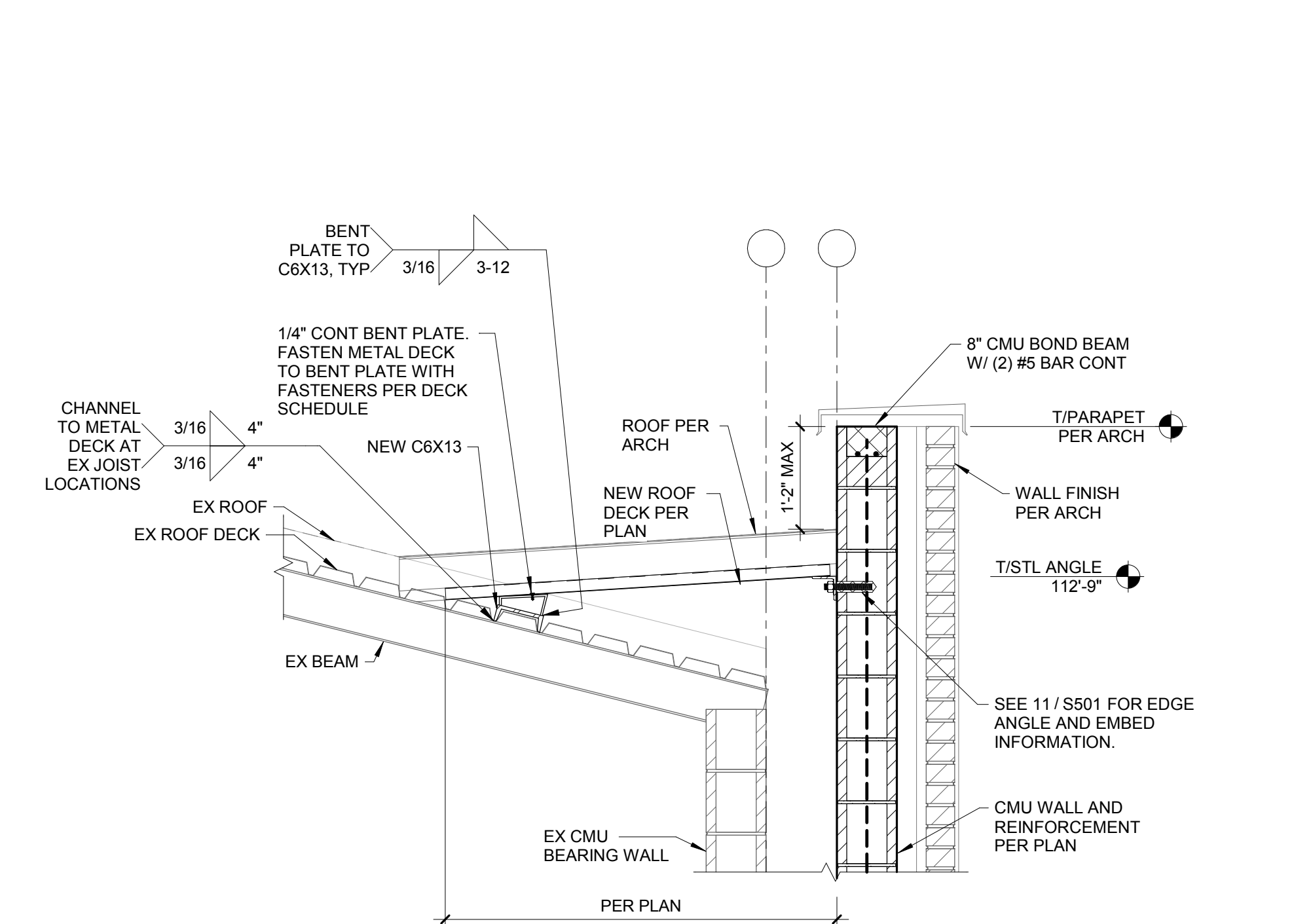
Project Number 2017.01279

STEEL SECTIONS AND DETAILS

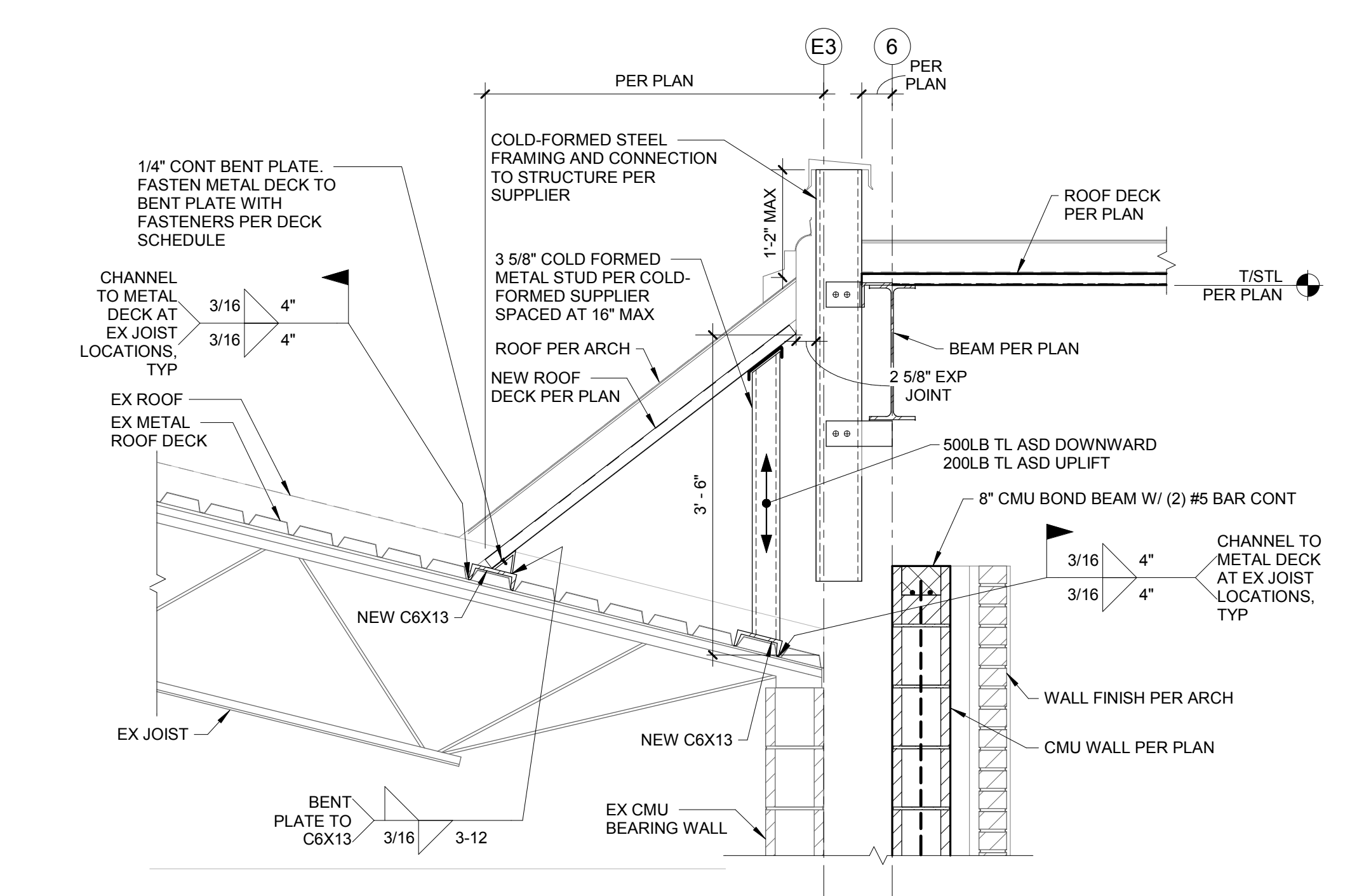
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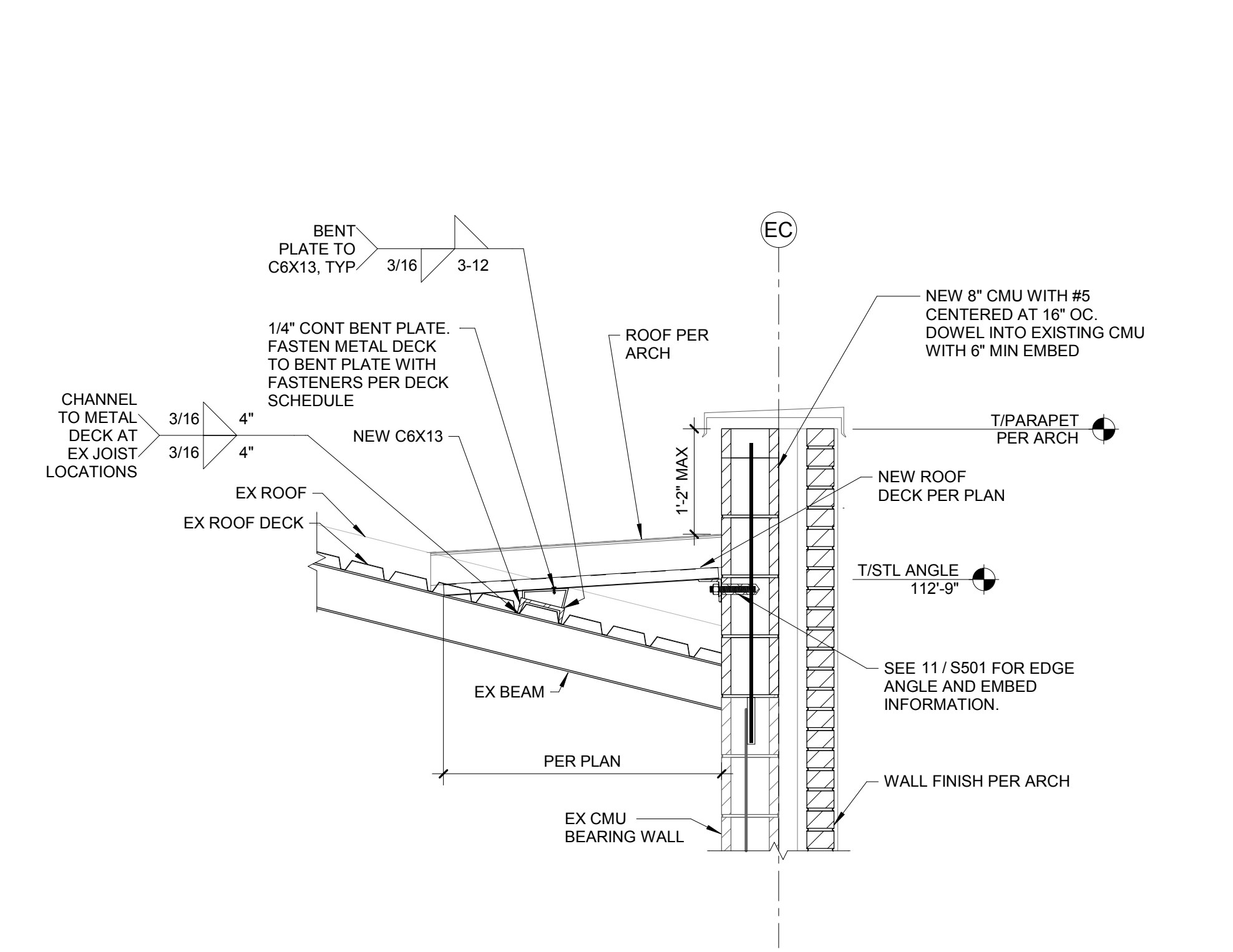
SECTION 3
S503 N.T.S.



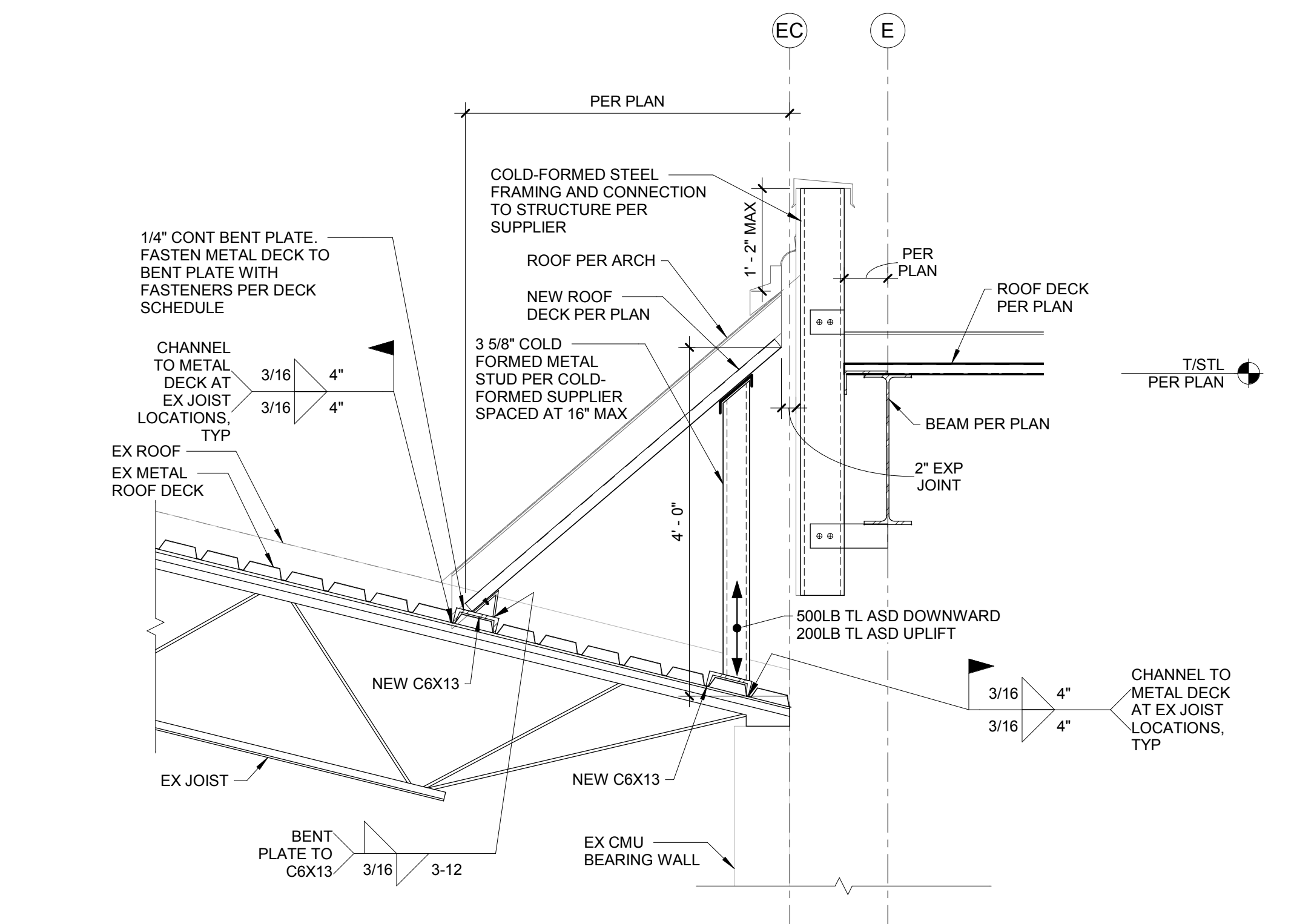
SECTION 2
S503 N.T.S.



SECTION 1
S503 N.T.S.



SECTION 5
S503 N.T.S.



SECTION 4
S503 N.T.S.

ADDITION ROOF																			ADDITION ROOF		
116' - 0"																				116' - 0"	
	W12X63	W12X63	W12X63	W12X63	W12X79	W12X79	W12X63	W12X63	W12X65	W12X65	W12X65	W12X79	W12X65	W12X65	W12X79	W12X65	W12X65	W12X65			
T/SLAB																			T/SLAB		
100' - 0"																			100' - 0"		
Column Locations	BP1	BP2	BP4	BP1	BP6	BP1	BP5	BP1	BP1	BP1	BP1	BP3	BP1	BP1	BP1	BP1	BP1	BP1			
	A-6	A-7	B-6	B-7	C-6	C-7	D-6	D-7	E-3	E-4	E-5	F-3	F-4	F-5	G-3	G-4	G-5	H-3	H-4	H-5	

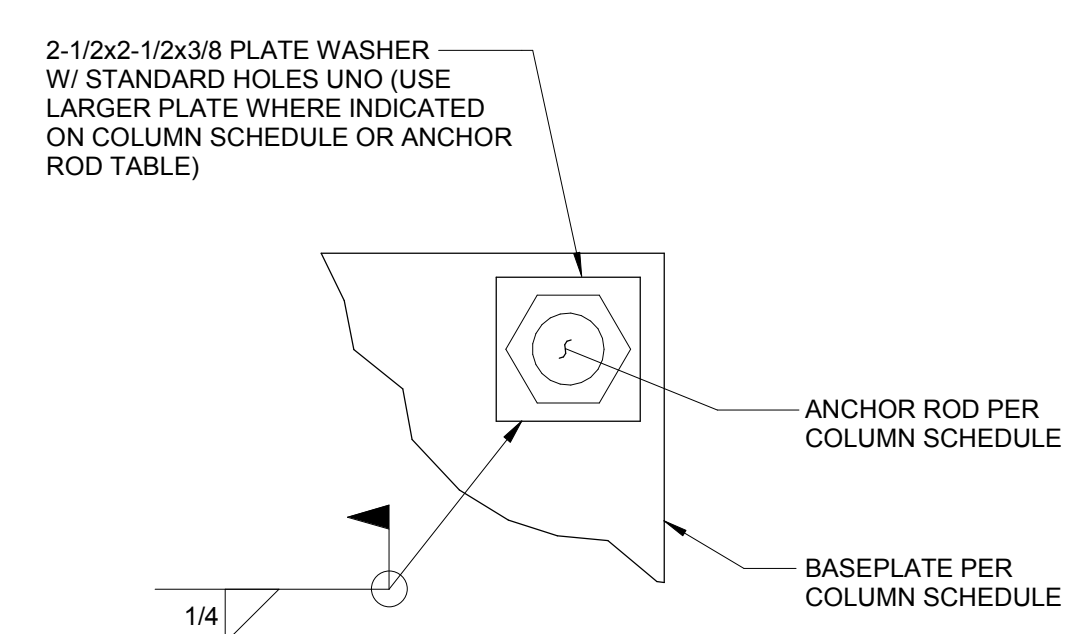
1 S511 COLUMN SCHEDULE
N.T.S.

COLUMN BASE PLATE SCHEDULE					
MARK	PLATE SIZE B" X N" X T"	ANCHOR RODS		EMBED LENGTH	REMARKS
		QTY	DIA		
BP1	18" X 18" X 3/4"	4	3/4"	12"	SEE DETAIL 4 / S511
BP2	16" X 18" X 3/4"	4	3/4"	12"	SEE DETAIL 4 / S511
BP3	18" X 18" X 3/4"	4	3/4"	12"	SEE DETAIL 5 / S511
BP4	16" X 18" X 3/4"	4	3/4"	12"	SEE DETAIL 6 / S511
BP5	16" X 16" X 3/4"	4	3/4"	12"	SEE DETAIL 7 / S511
BP6	18" X 18" X 3/4"	4	3/4"	12"	SEE DETAIL 8 / S511

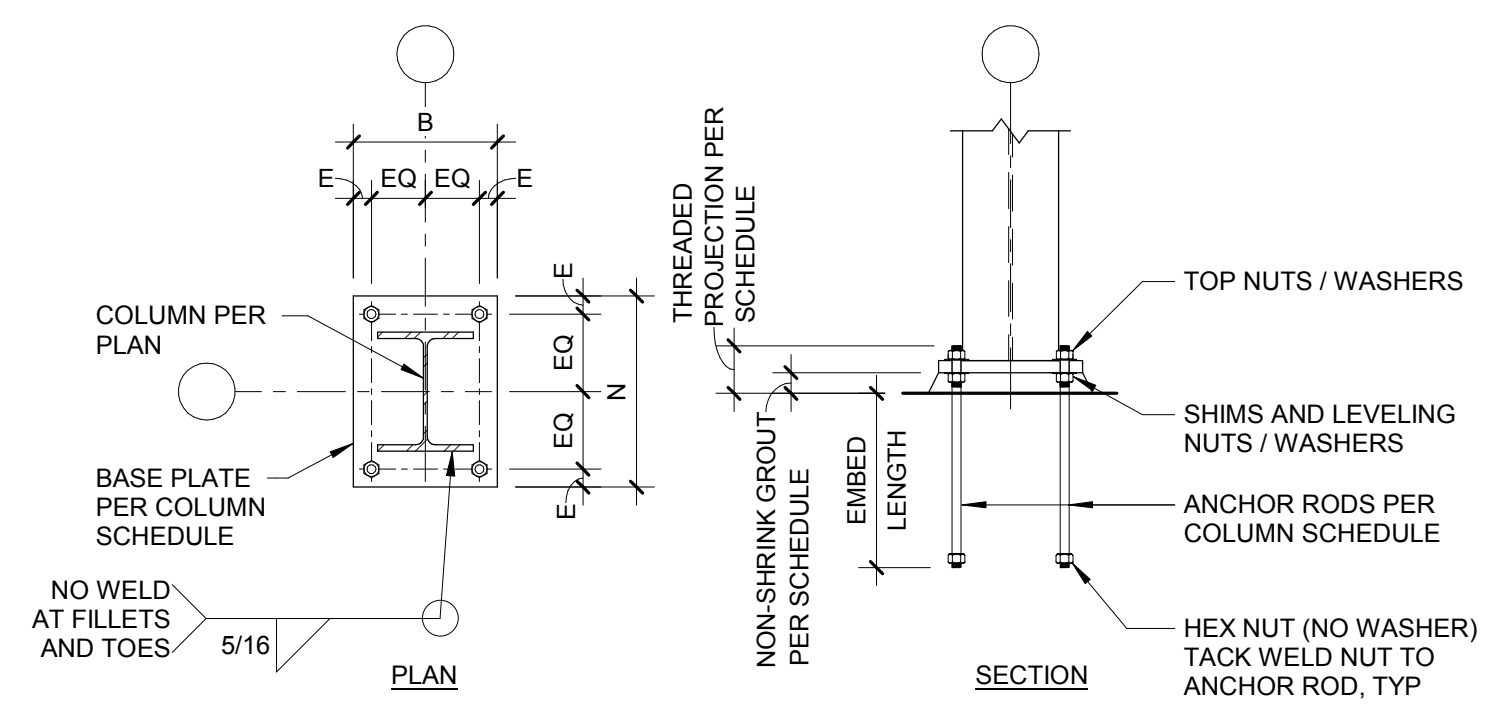
ANCHOR ROD TABLE						
ANCHOR ROD DIA	BASEPLATE HOLE DIA	MINIMUM WASHER SIZE	MINIMUM WASHER THICKNESS	MINIMUM PROJ ABOVE T/C/CONC	NON-SHRINK GROUT BED THK	MIN EDGE DISTANCE, E
3/4"	1 5/16"	2"	1/4"	8"	2"	1 1/2"
1"	1 13/16"	3"	3/8"	8"	2"	2"
1 1/4"	2 1/16"	3"	1/2"	10"	3"	2"
1 1/2"	2 5/16"	3 1/2"	1/2"	10"	3"	2 1/2"
1 3/4"	2 3/4"	4"	5/8"	10"	3"	3"

NOTES:
1. ANCHOR RODS ARE ASTM F1554 GR. 36 UNO.

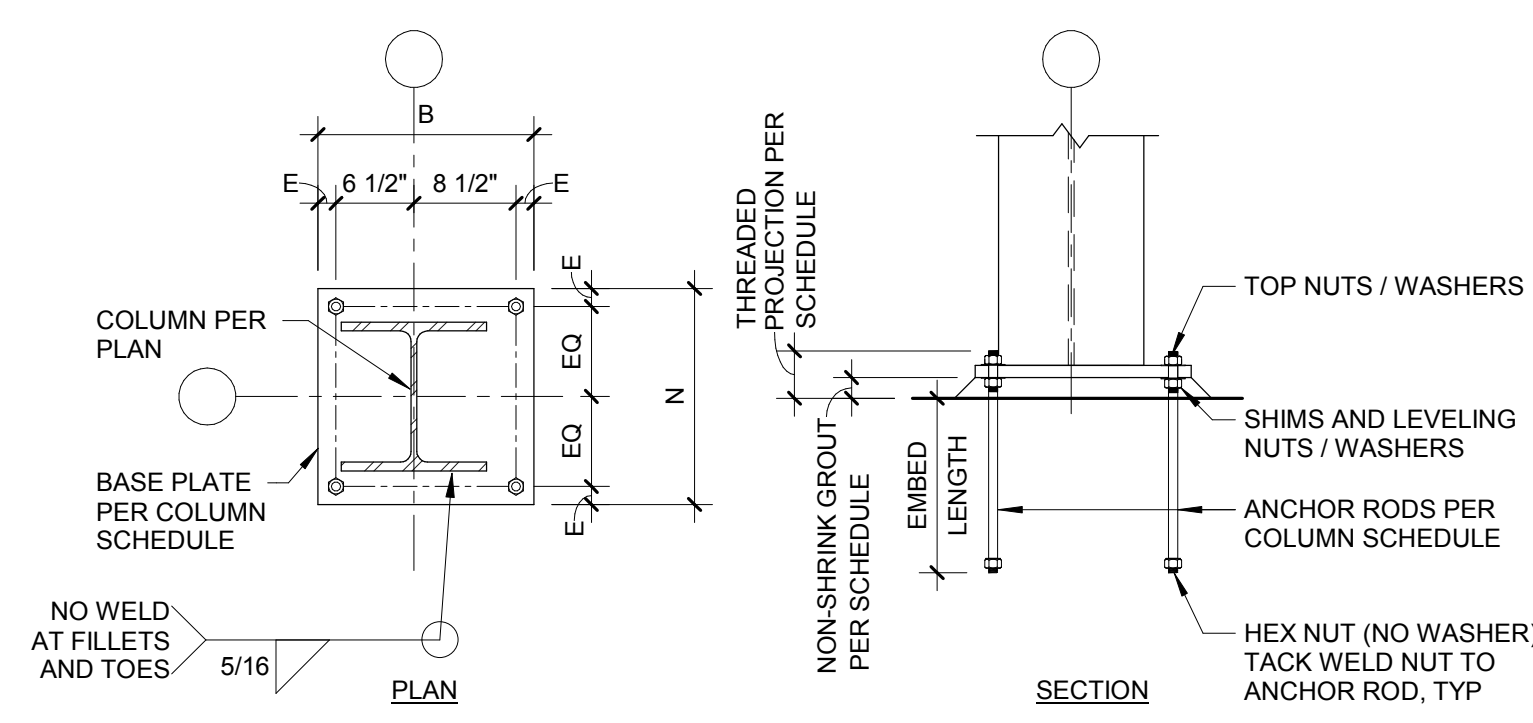
2 S511 COLUMN BASE PLATE SCHEDULE AND ANCHOR ROD TABLE
N.T.S.



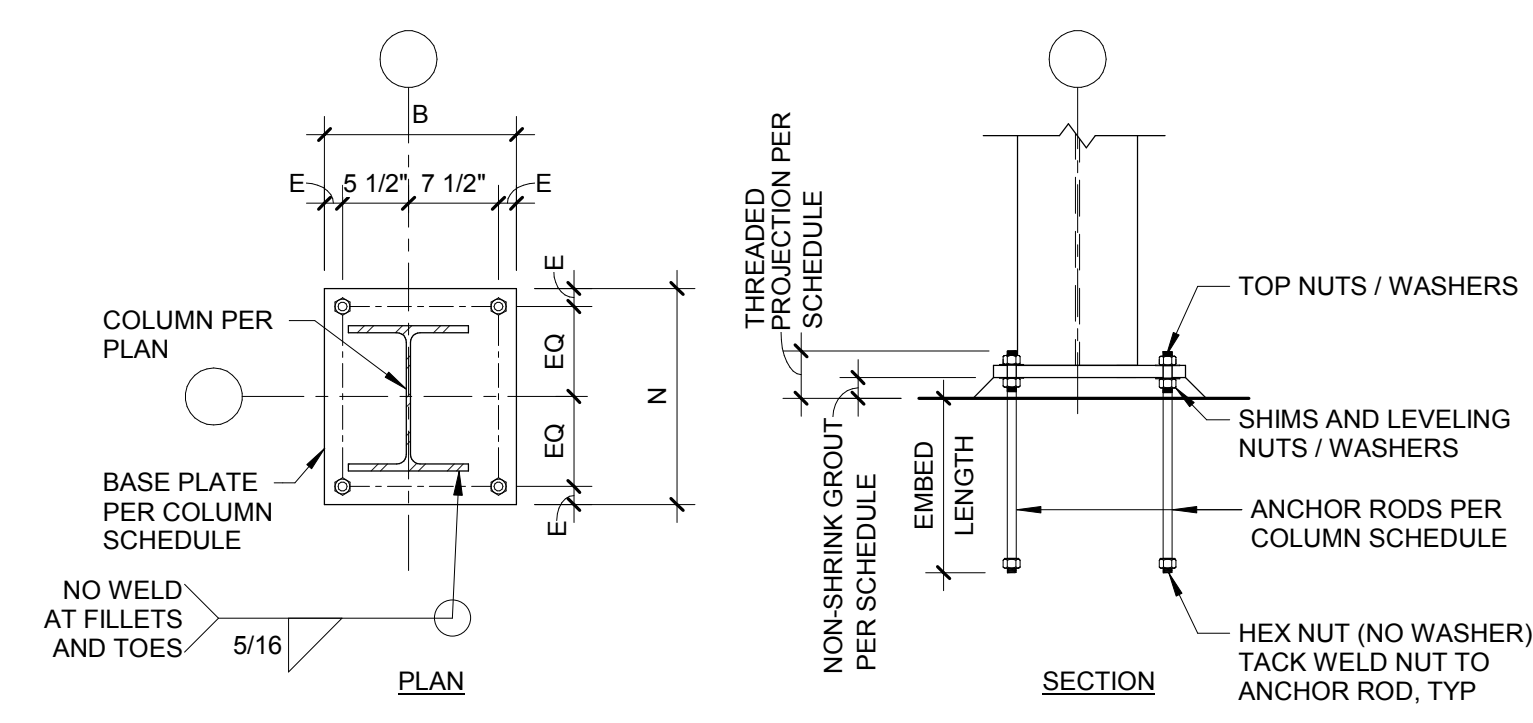
3 S511 TYPICAL WELDED PLATE WASHER DETAIL
N.T.S.



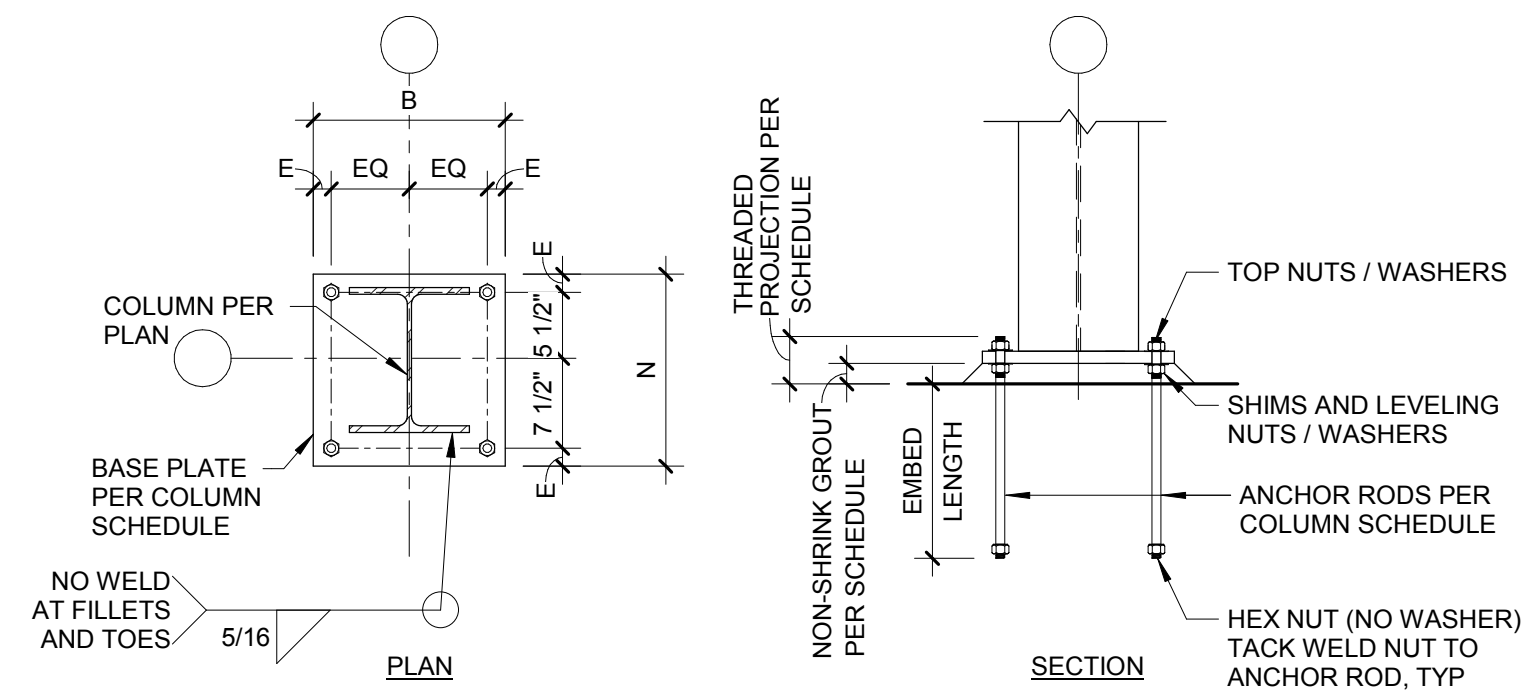
4 S511 TYPICAL W COLUMN BASE DETAIL
N.T.S.



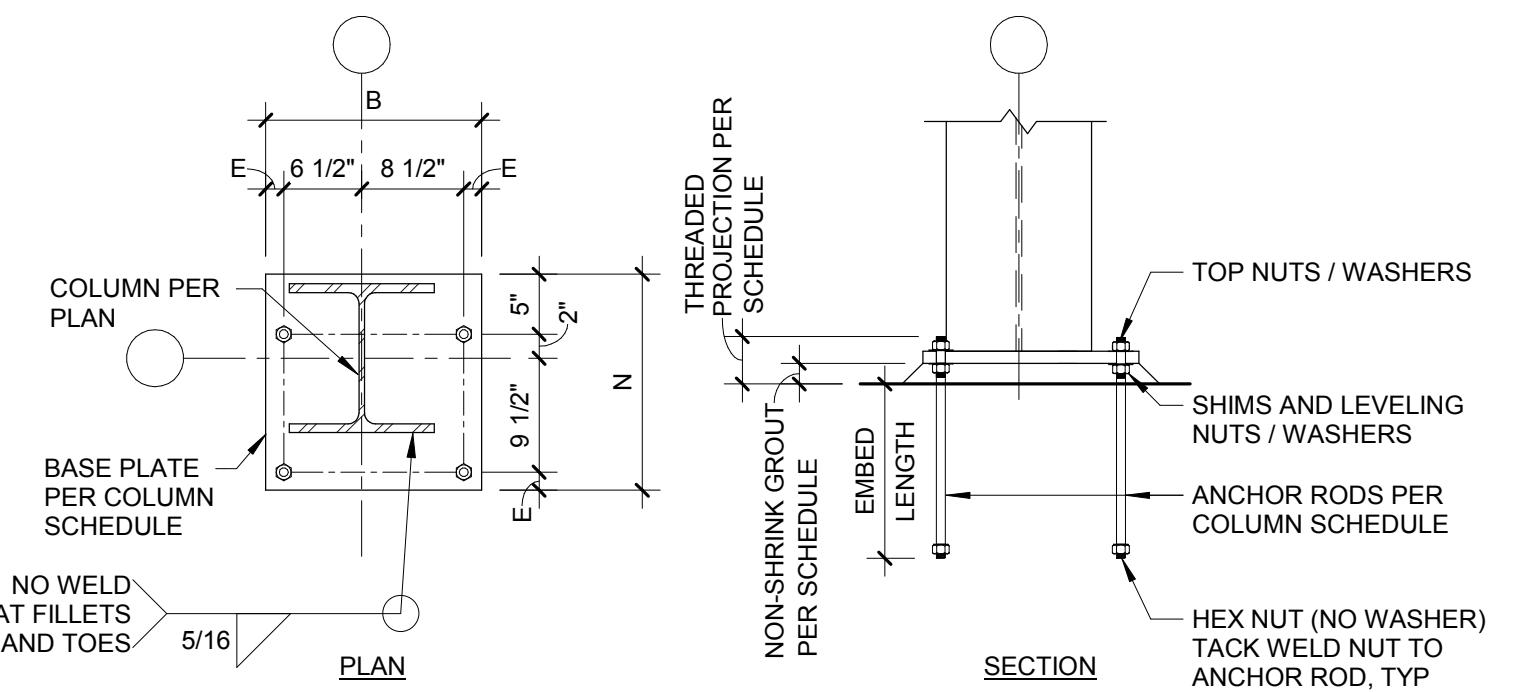
5 S511 BP3
N.T.S.



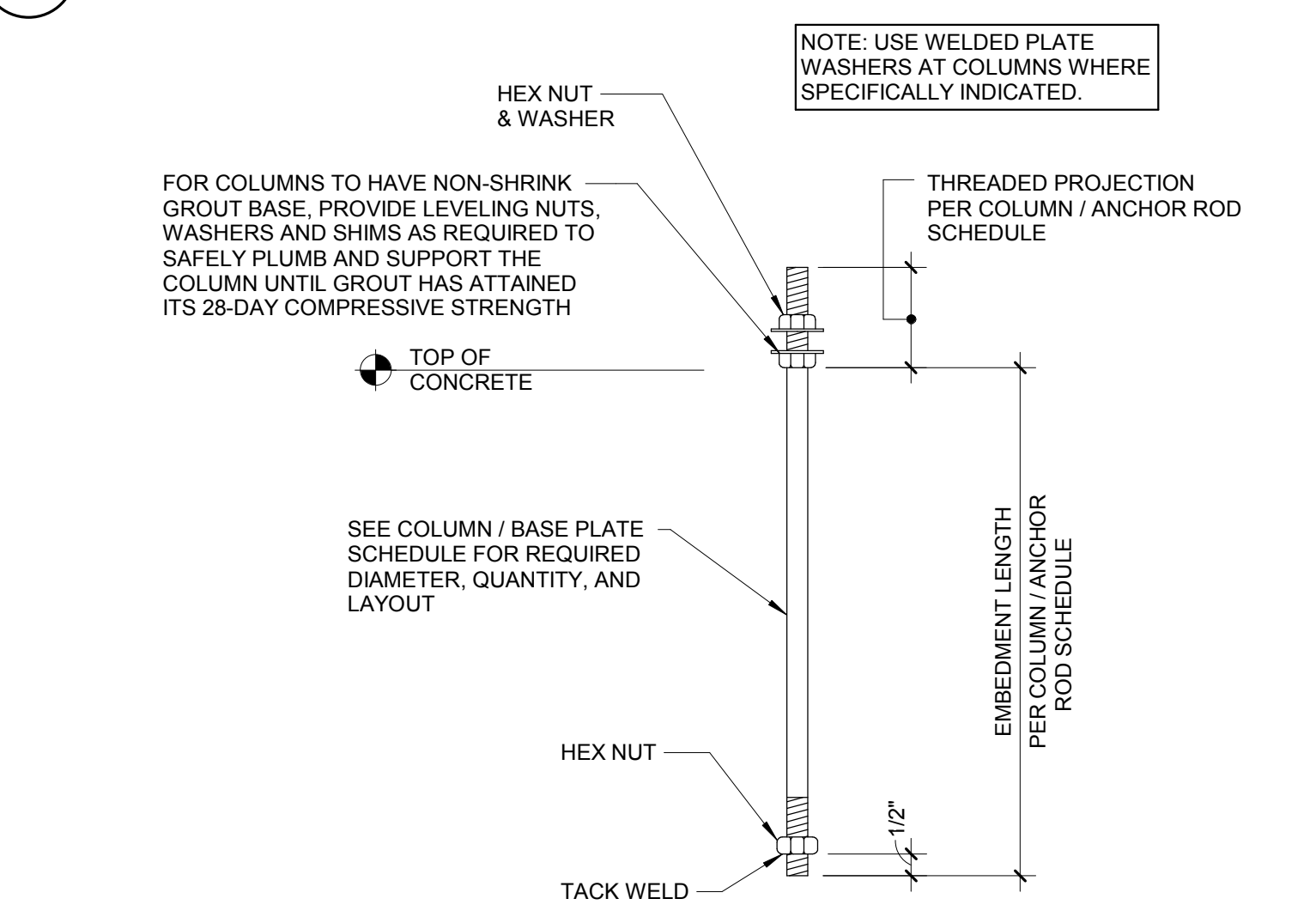
6 S511 BP4
N.T.S.



7 S511 BP5
N.T.S.



8 S511 BP6
N.T.S.



9 S511 TYPICAL COLUMN ANCHOR ROD DETAIL
N.T.S.

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PORTER COUNTY - NORTH ANNEX
PORTAGE, IN



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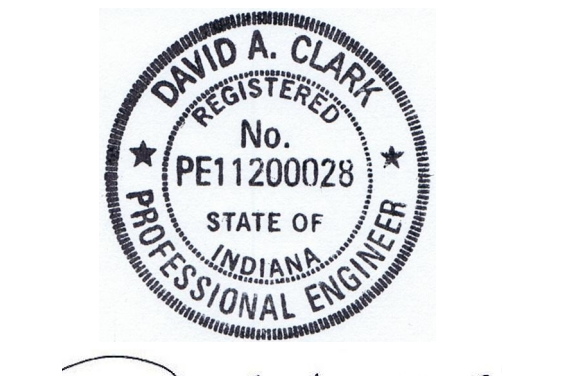
ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

STEEL COLUMN AND BASE PLATE SCHEDULES

S511



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ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

STEEL FRAME ELEVATIONS

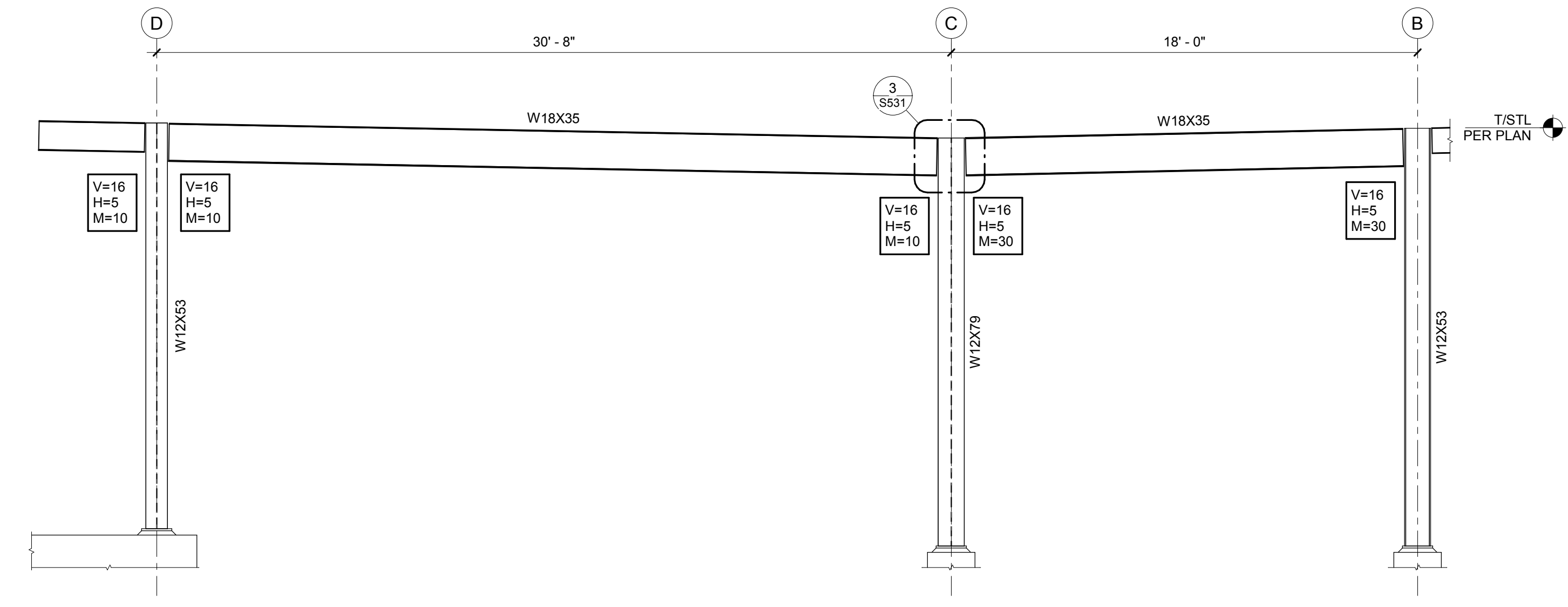
S521

LOAD KEY

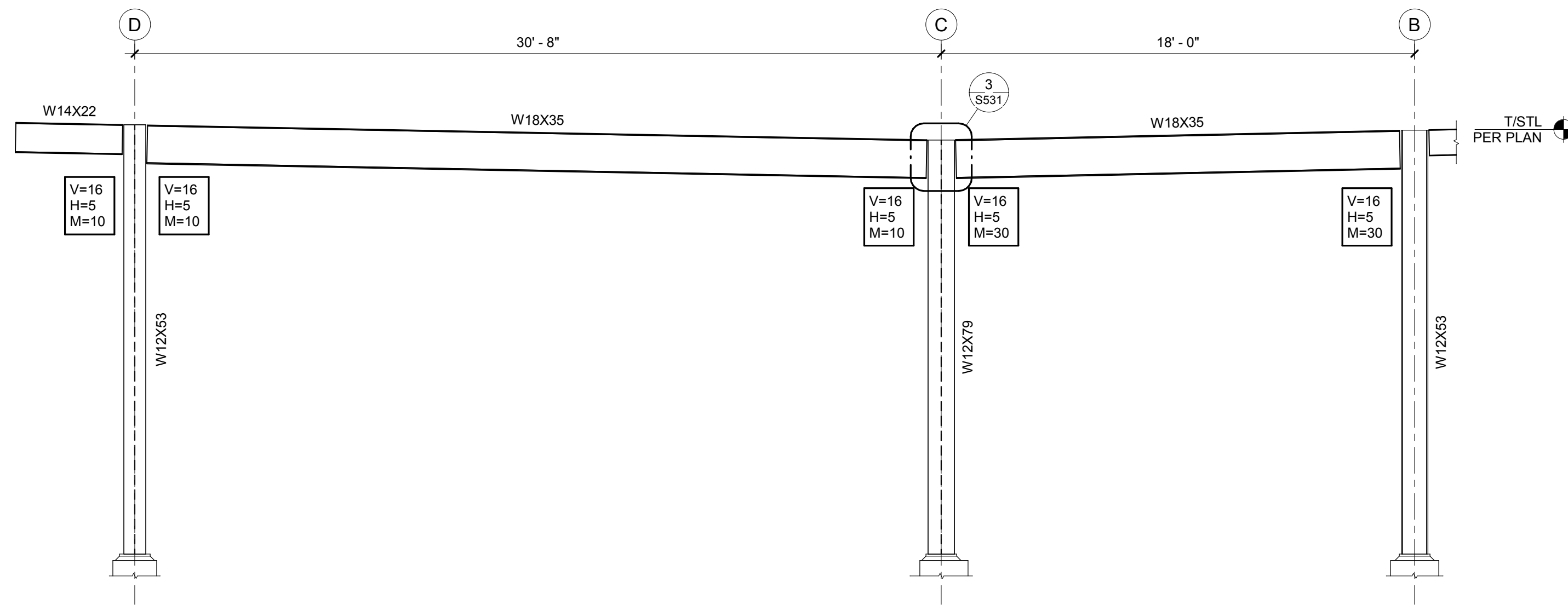
V = VERTICAL REACTION (K)

H = HORIZONTAL REACTION (K)

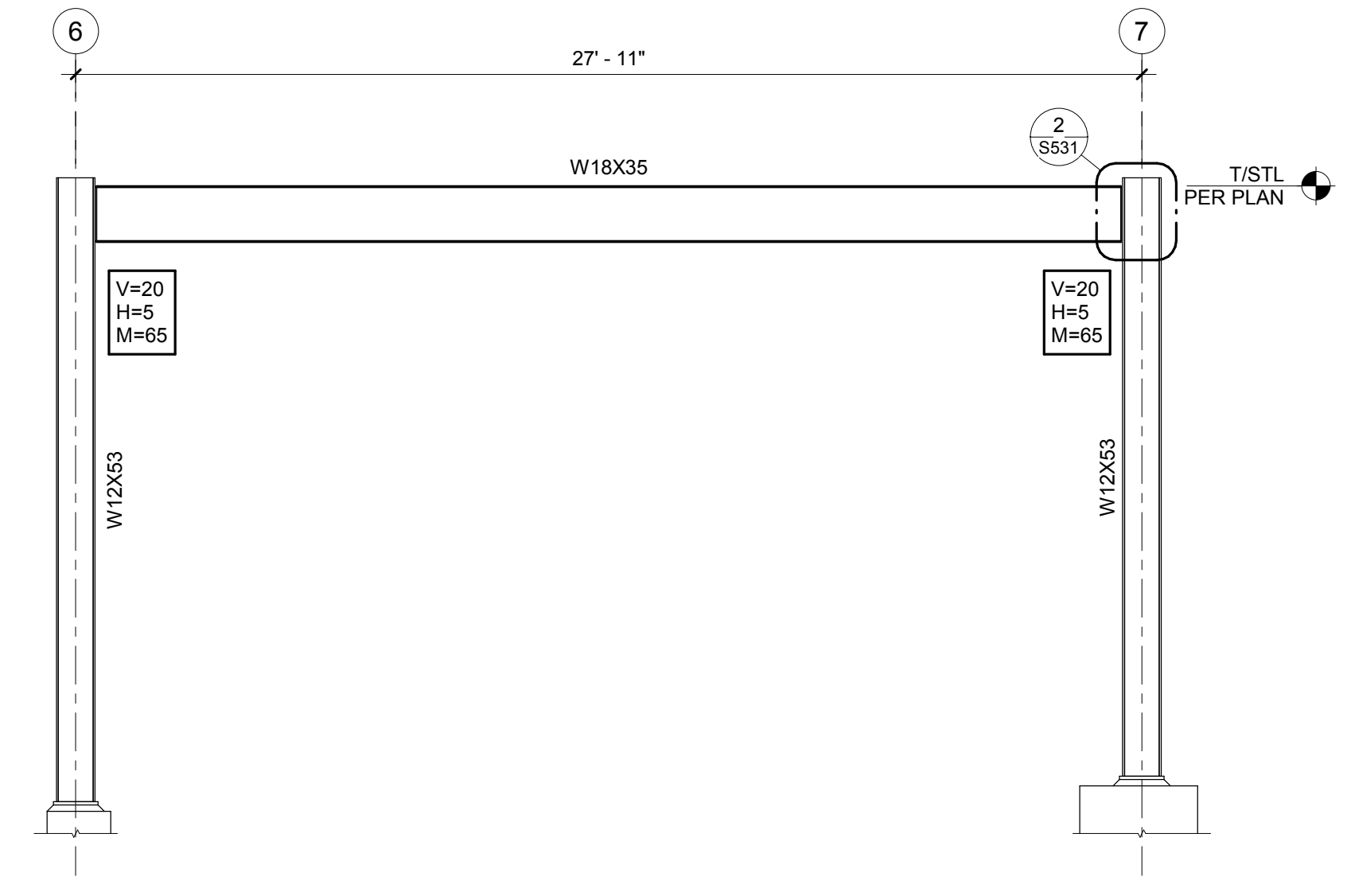
M = IN-PLACE MOMENT (K-FT)



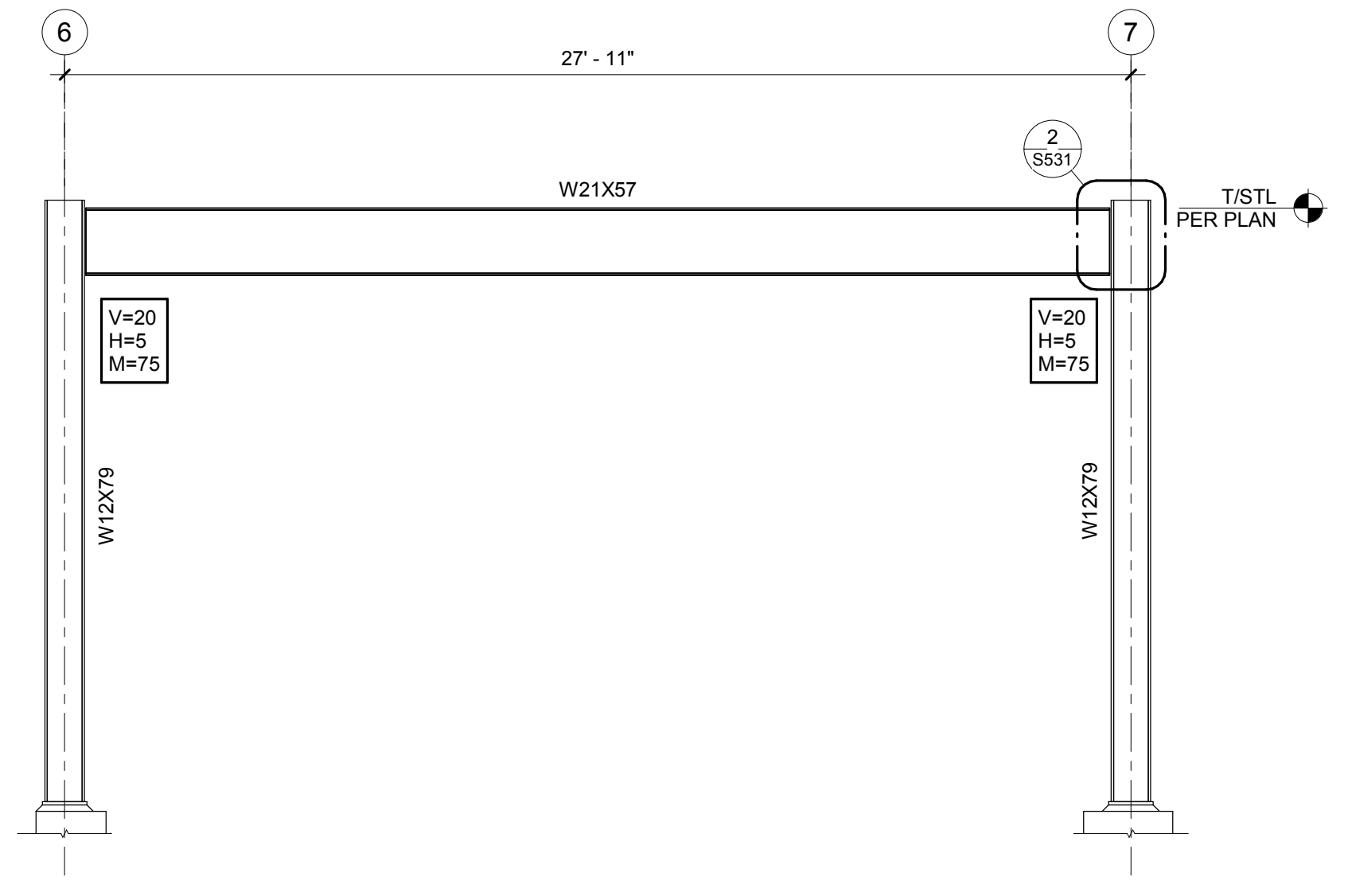
2 **MOMENT FRAME ALONG GRID 7**
S521 N.T.S.



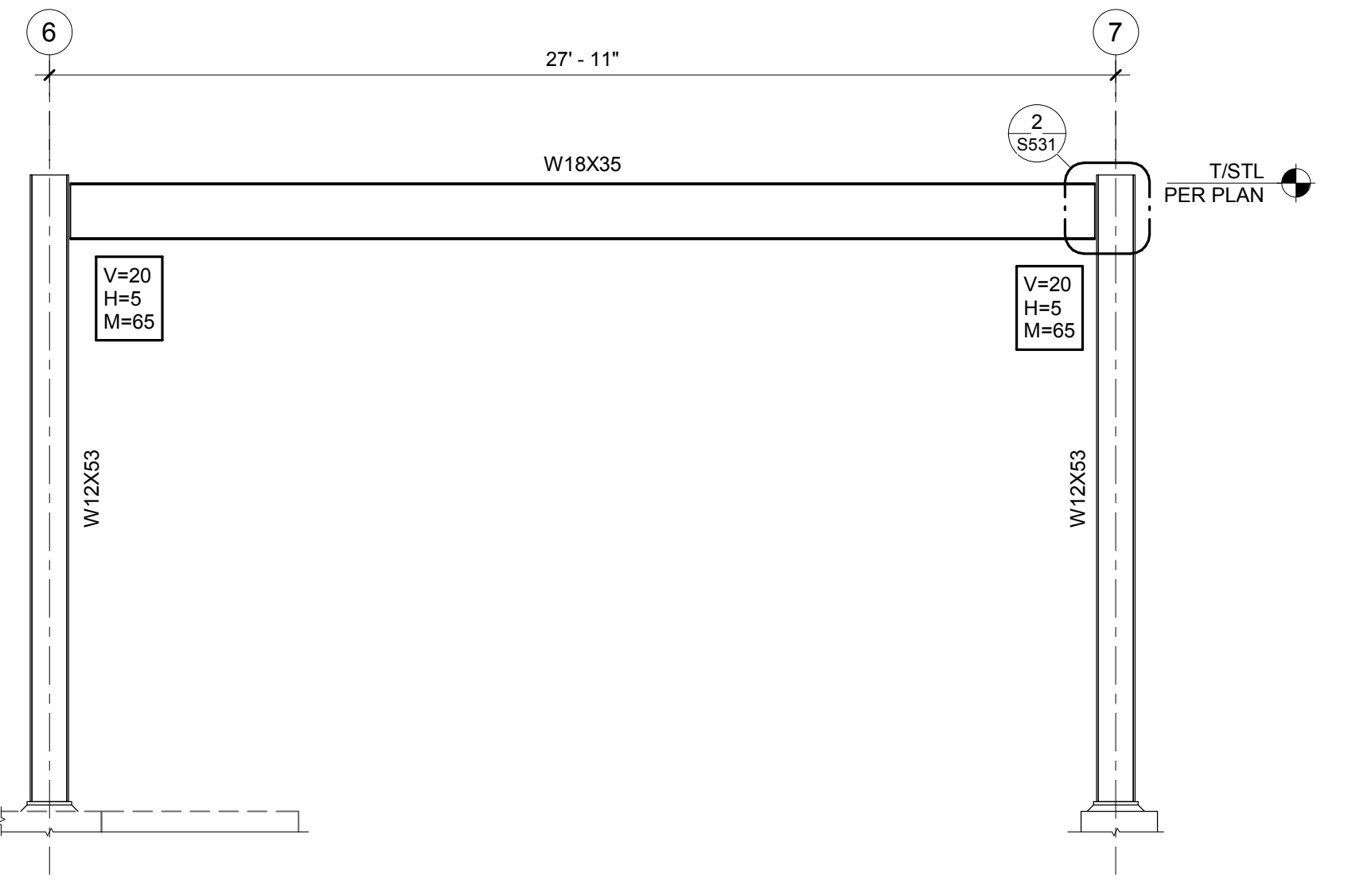
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S521 N.T.S.



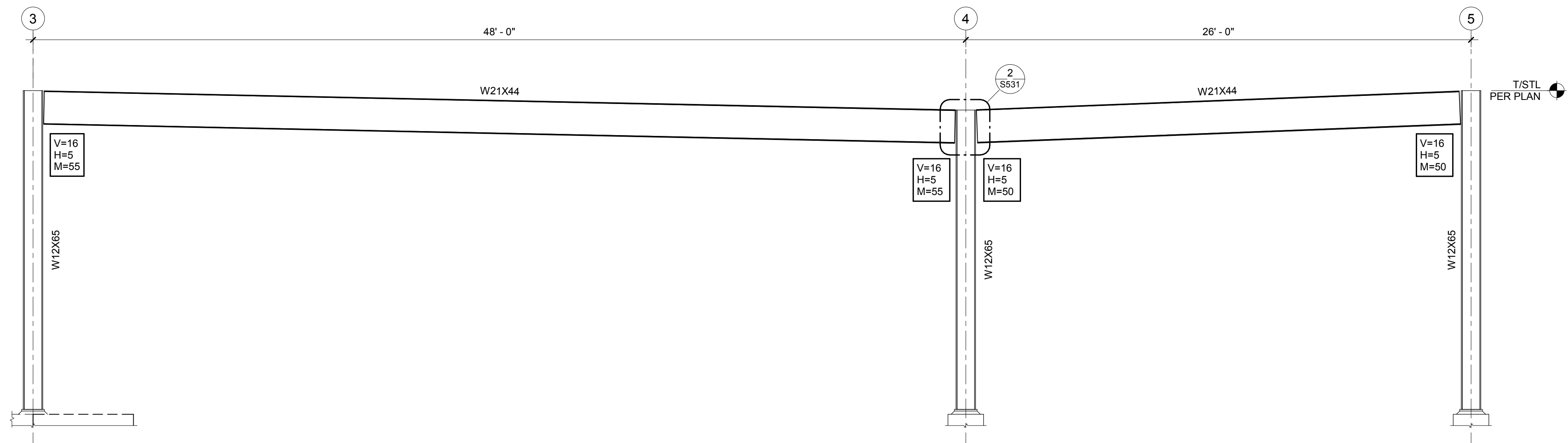
5 **MOMENT FRAME ALONG GRID D**
S521 N.T.S.



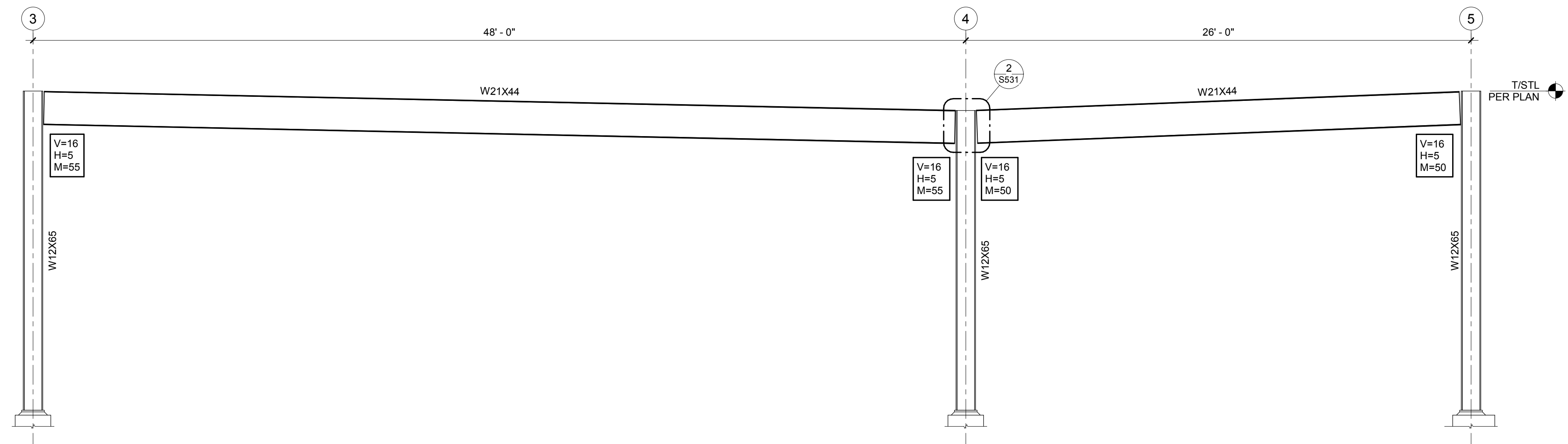
4 **MOMENT FRAME ALONG GRID C**
S521 N.T.S.



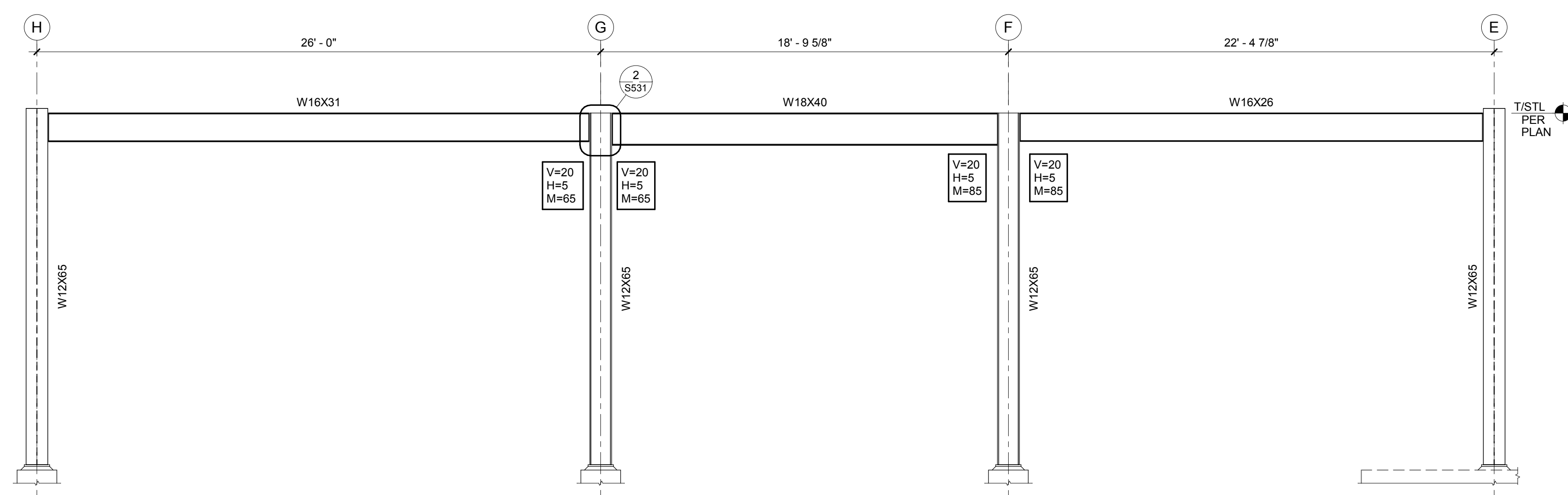
3 **MOMENT FRAME ALONG GRID A**
S521 N.T.S.



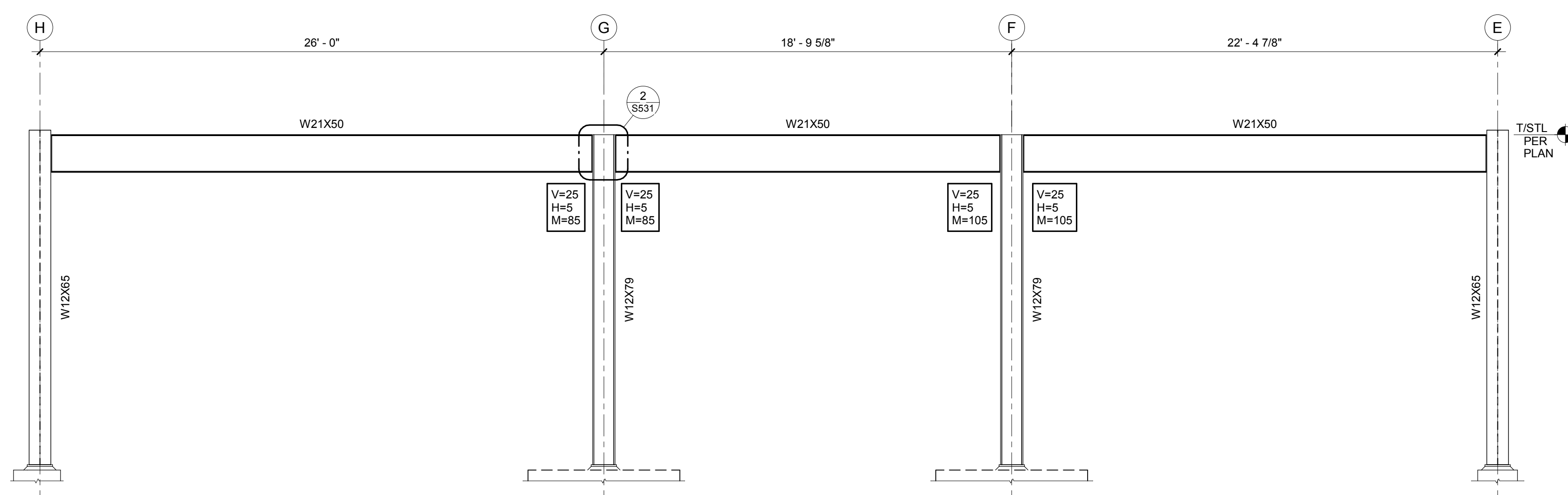
1 MOMENT FRAME ALONG GRID E
S522 N.T.S.



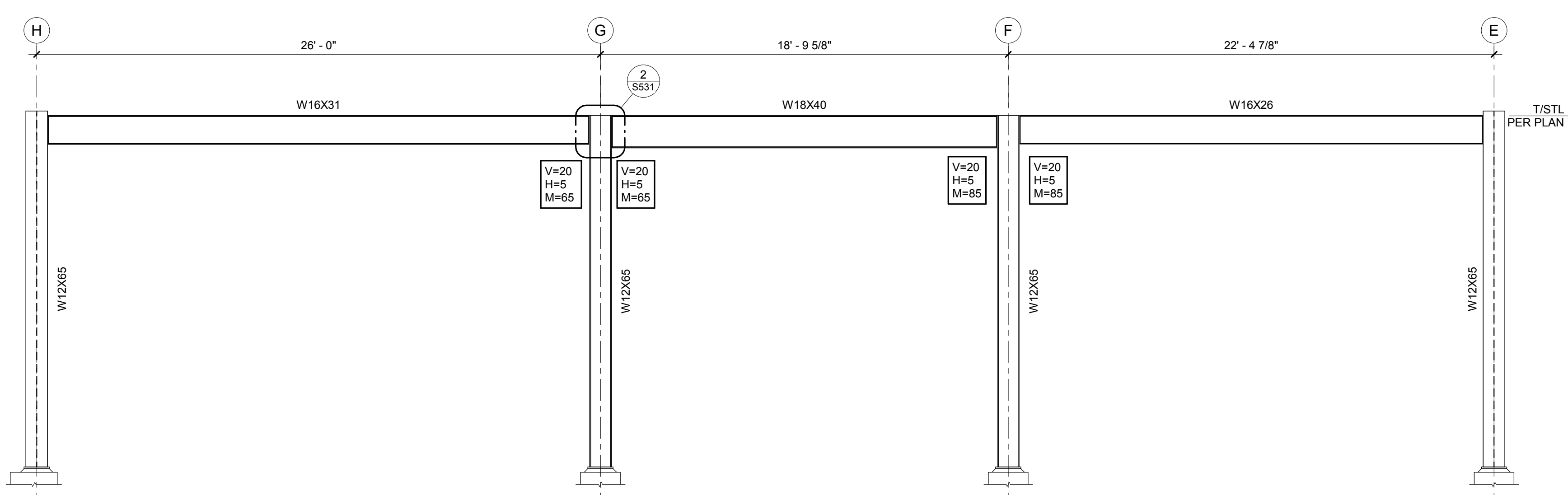
2 MOMENT FRAME ALONG GRID H
S522 N.T.S.



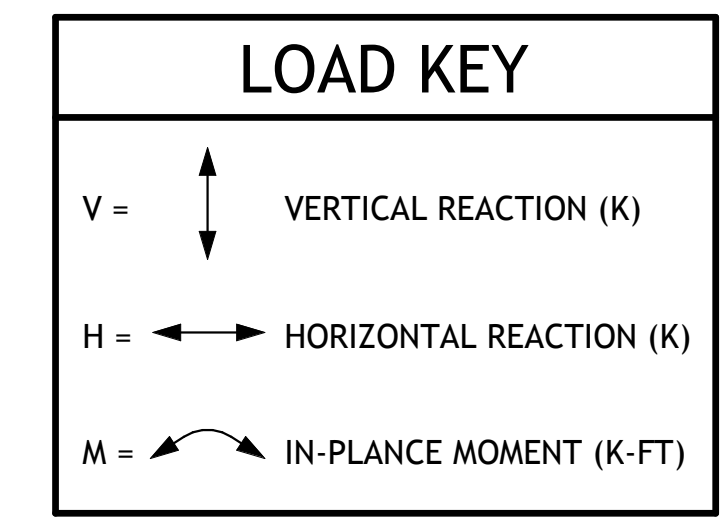
3 MOMENT FRAME ALONG GRID 3
S522 N.T.S.



4 MOMENT FRAME ALONG GRID 4
S522 N.T.S.



5 MOMENT FRAME ALONG GRID 5
S522 N.T.S.



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ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

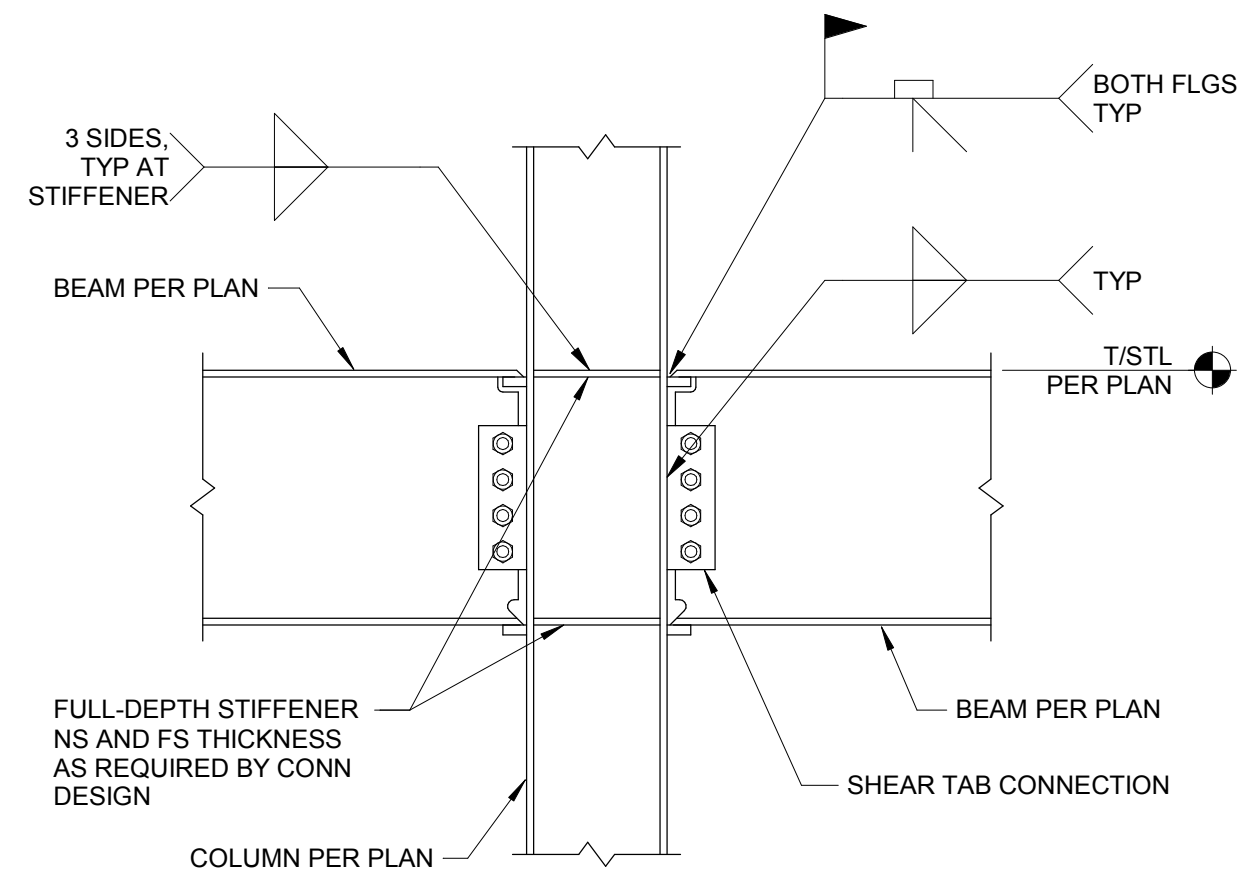
STEEL FRAME
ELEVATIONS

S522

MOMENT FRAME GENERAL NOTES

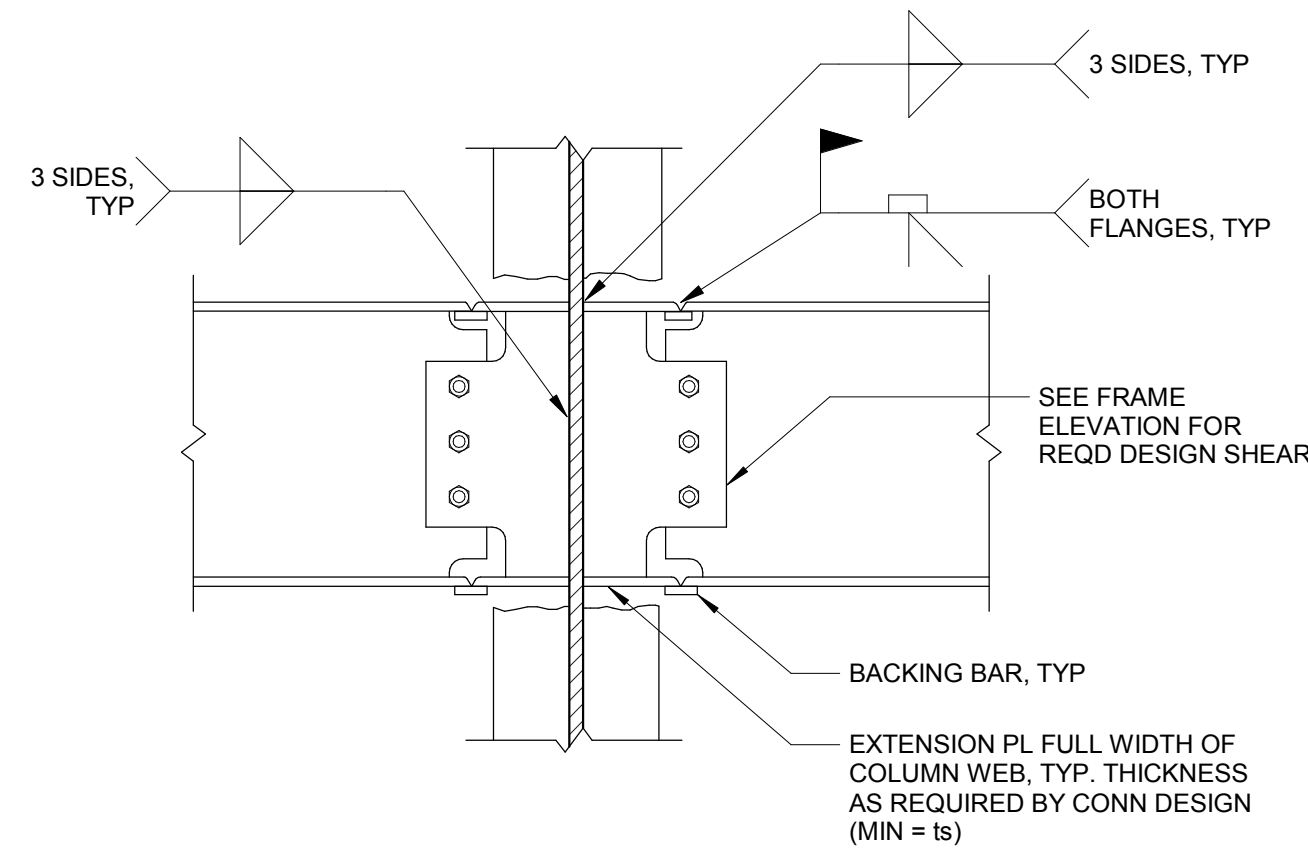
1. FORCES SHOWN ARE THE MORE CRITICAL OF ALL APPLICABLE BUILDING CODE ASD LOAD COMBINATIONS.
2. CONNECTIONS SHALL BE DESIGNED FOR FORCES INDICATED ON ELEVATION ACTING CONCURRENTLY WITH BEAM REACTION AND ANY INDICATED TRANSFER FORCES. ECCENTRICITY SHALL BE CONSIDERED IN DESIGN OF CONNECTION.
3. EACH MEMBER'S CONNECTION SHALL BE SYMMETRIC ABOUT THE CENTER OF GRAVITY OF THAT MEMBER.
4. ALL BOLTED CONNECTIONS SHALL HAVE FULLY TENSIONED HIGH STRENGTH BOLTS WITH CLASS A FAYING SURFACES.

GENERAL:
ALL FRAME CONNECTIONS SHALL BE DESIGNED BY THE STEEL FABRICATOR. UNO. CONNECTION DETAILS INDICATED ON THE STRUCTURAL DRAWINGS ARE PROVIDED TO SHOW CONNECTION CONCEPT ONLY AND ARE NOT TO BE CONSIDERED A FINAL DESIGN. FABRICATOR'S REGISTERED PROFESSIONAL ENGINEER SHALL DESIGN AND DETAIL ALL FINAL CONNECTIONS AS REQUIRED TO SAFELY TRANSFER THE DESIGN FORCES AND ALLOW FOR FIELD FIT-UP AND ERECTION TOLERANCES.



TYPICAL BEAM MOMENT CONNECTION TO COLUMN FLANGE

2
S531
N.T.S.



TYPICAL BEAM MOMENT CONNECTION TO COLUMN WEB

3
S531
N.T.S.

MOMENT FRAME GENERAL NOTES (ASD)

1
S531
N.T.S.



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ISSUANCE INDEX
DATE: 08.20.18
PROJECT PHASE: 100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

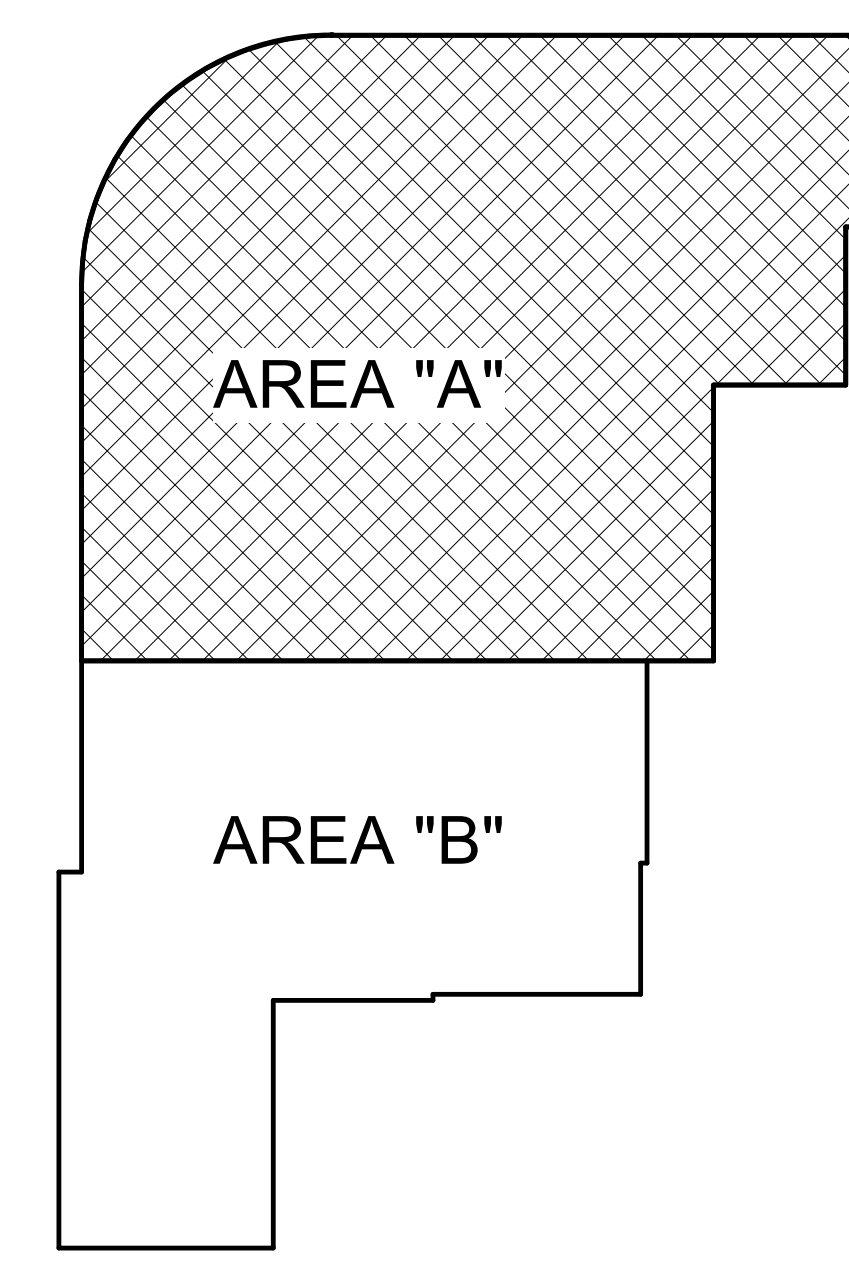
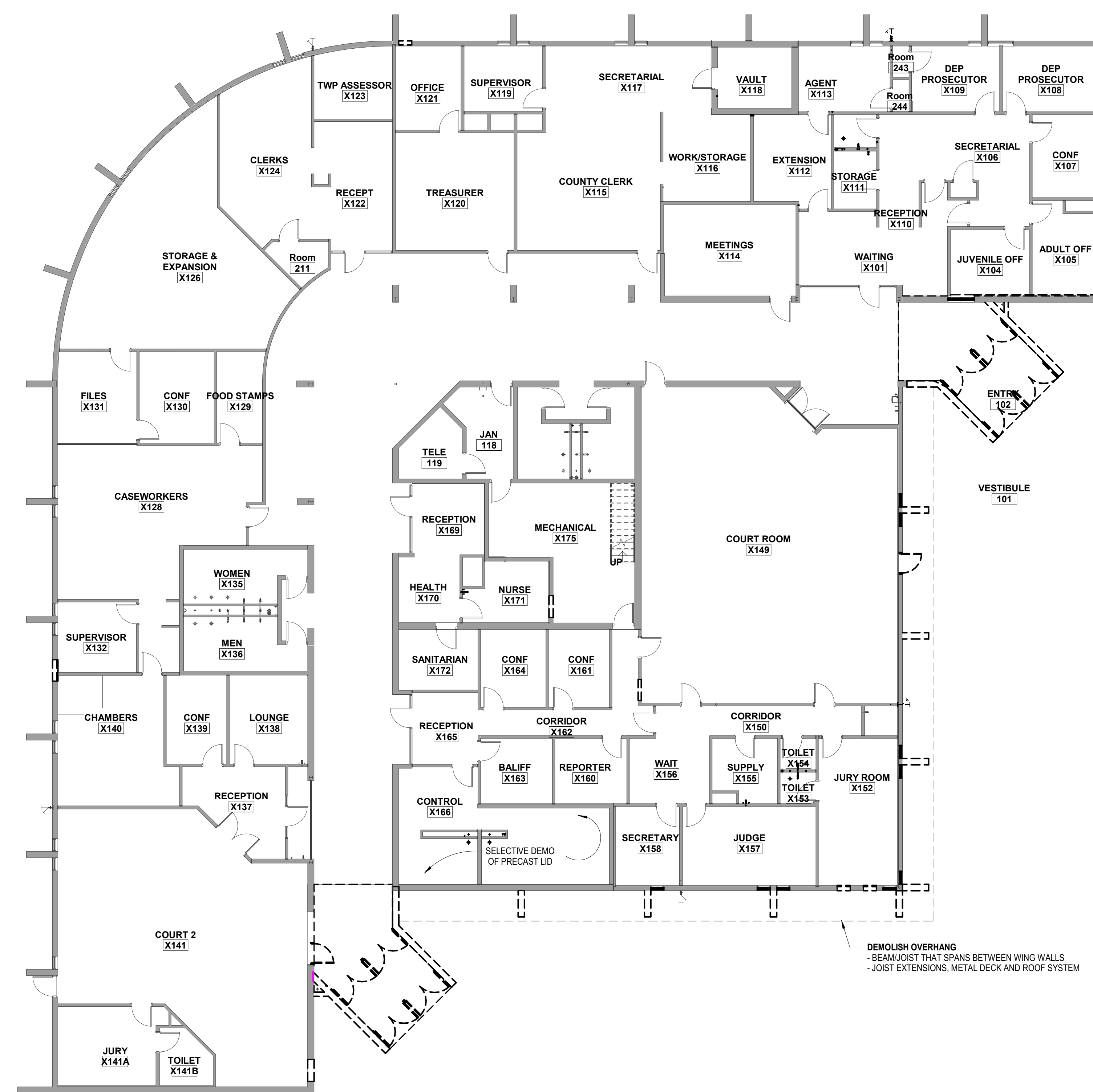
Project Number 2017.01279

STEEL FRAME SECTIONS AND DETAILS

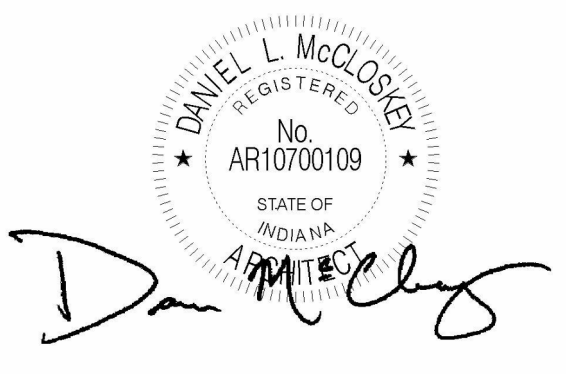
S531

GENERAL DEMOLITION NOTES

- A. VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. NOTIFY THE ARCHITECT OF ANY CONFLICTS PRIOR TO PROCEEDING
- B. ALL FURNITURE AND FURNISHINGS WILL BE REMOVED, RELOCATED AND/OR STORED BY OWNER UNLESS NOTED OTHERWISE
- C. ALL ITEMS BEING REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER UNTIL CONFIRMATION HAS BEEN MADE AS TO WHETHER THE OWNER WILL RETAIN SUCH ITEMS. CONTRACTOR SHALL COORDINATE WITH OWNER REGARDING DELIVERY OF ALL ITEMS BEING RETAINED. ALL ITEMS NOT BEING RETAINED BY THE OWNER OR DESIGNATED ON THE DRAWINGS TO BE SALVAGED, RELOCATED OR REINSTALLED SHALL BE COMPLETELY REMOVED FROM THE SITE.
- D. THE DEMOLITION CONTRACTOR SHALL PROVIDE AND INSTALL TEMPORARY DUST PARTITIONS, CONSTRUCTION BARRIERS, TEMPORARY DOORS, WALK-OFF MATS AND EQUIPMENT PROTECTION WHERE SHOWN ON THE DOCUMENTS OR IF NOT SHOWN, AS REQUIRED BY THE WORK BEING PERFORMED. TEMPORARY DUST PARTITION SHALL BE COMPLETELY SEALED TO PREVENT CONSTRUCTION DUST FROM ENTERING OWNER'S ADJACENT SPACES. DUST PARTITION DOOR TO BE SELF-CLOSING, POSITIVE LATCHING, AND PAD-LOCKABLE. SUCH PROTECTION SHALL BE MAINTAINED AND REPAIRED PROMPTLY IF DAMAGED TO AVOID DUST INFILTRATION INTO ADJACENT AREAS. PROVIDE HEPA FILTER FILTRATION AND NEGATIVE AIR MACHINES WITH MONITORING GAGES.
- E. COVER ALL RETURN AIR GRILLES AND EXHAUST GRILLES IN CONSTRUCTION AREA WITH MIN. MERV 13 FILTER MEDIA, CHANGED REGULARLY.
- F. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DOCUMENTS FOR RESPECTIVE DEMOLITION INFORMATION.
- G. FILL ALL FLOOR CONSTRUCTION WHERE PIPING, CONDUITS, AND OTHER PENETRATIONS HAVE BEEN REMOVED.
- H. DEMOLITION WORK SHALL BE PERFORMED DURING NORMAL WORKING HOURS UNLESS NOISE WILL EXCEED OSHA THRESHOLDS. IF NOISE IS ANTICIPATED TO EXCEED OSHA THRESHOLDS, CONTRACTOR SHALL COORDINATE WITH OWNER TO ADJUST WORK HOURS TO MORE APPROPRIATE TIMES. CONTRACTOR SHALL USE ALL METHODS TO DECREASE NOISE IMPACT.
- I. ASBESTOS CONTAINING MATERIAL IS NOT ANTICIPATED IN THE AREA OF DEMOLITION. IF ACMs ARE SUSPECTED OR ENCOUNTERED, CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY.
- J. REMOVE ALL WALL COVERING, OTHER WALL TREATMENT, AND ATTACHMENTS, PATCH, SKIM COAT, AND PREPARE FOR FINAL FINISH ON WALLS NOT BEING COVERED BY NEW CONSTRUCTION.
- K. IF USING A DEMOLITION CHUTE, IT SHALL BE FULLY ENCLOSED.



KEY PLAN



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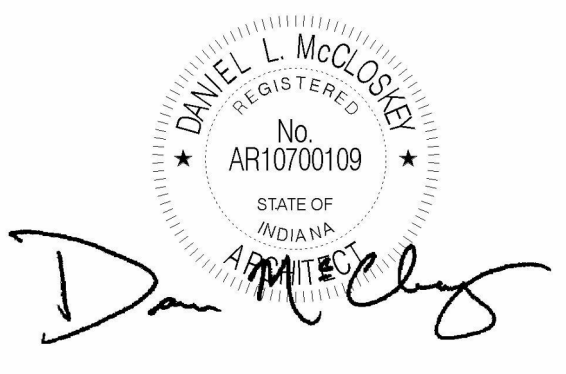
ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

FIRST FLOOR
DEMOLITION PLAN

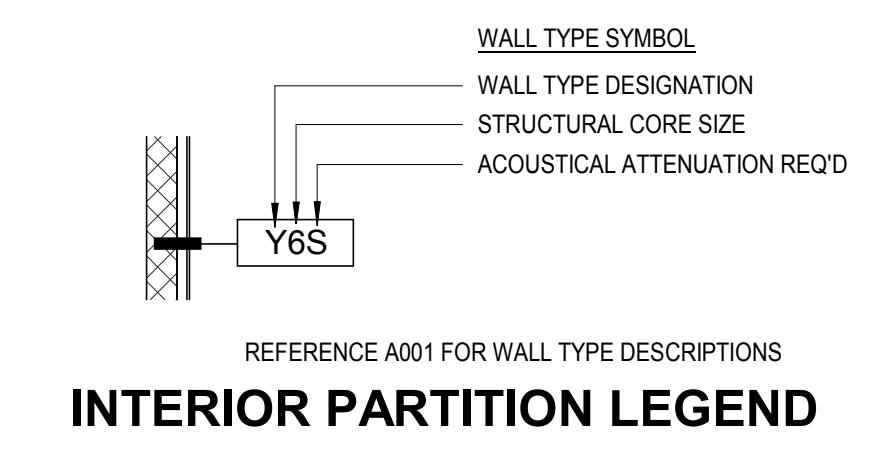
D101-BP1



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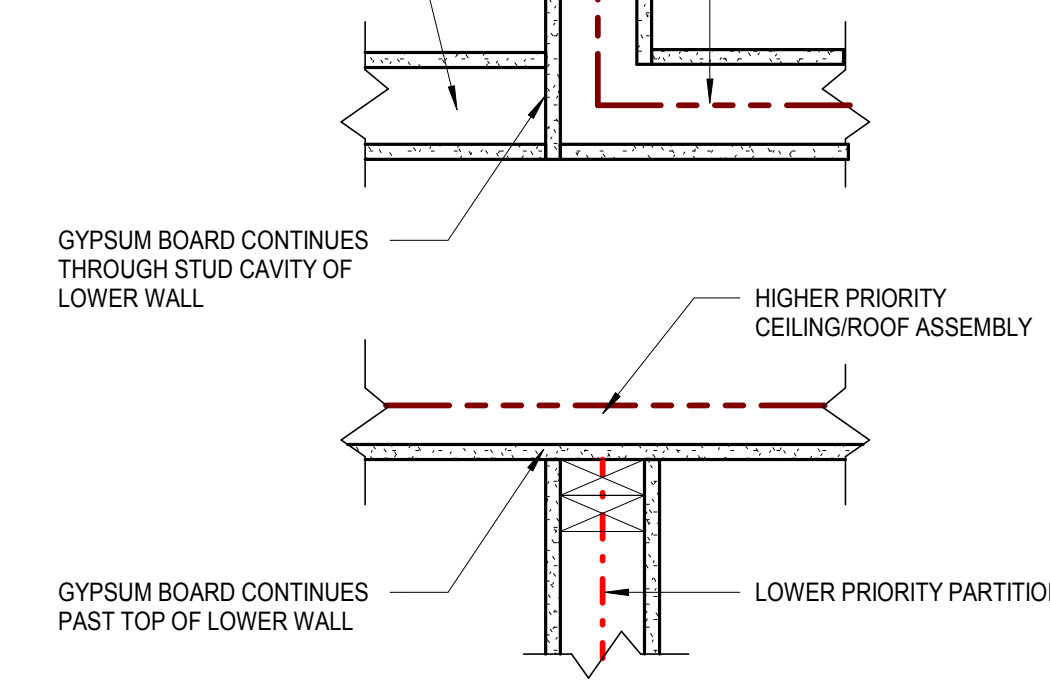
ISSUANCE INDEX	
DATE:	08.17.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



REFERENCE A001 FOR WALL TYPE DESCRIPTIONS

INTERIOR PARTITION LEGEND



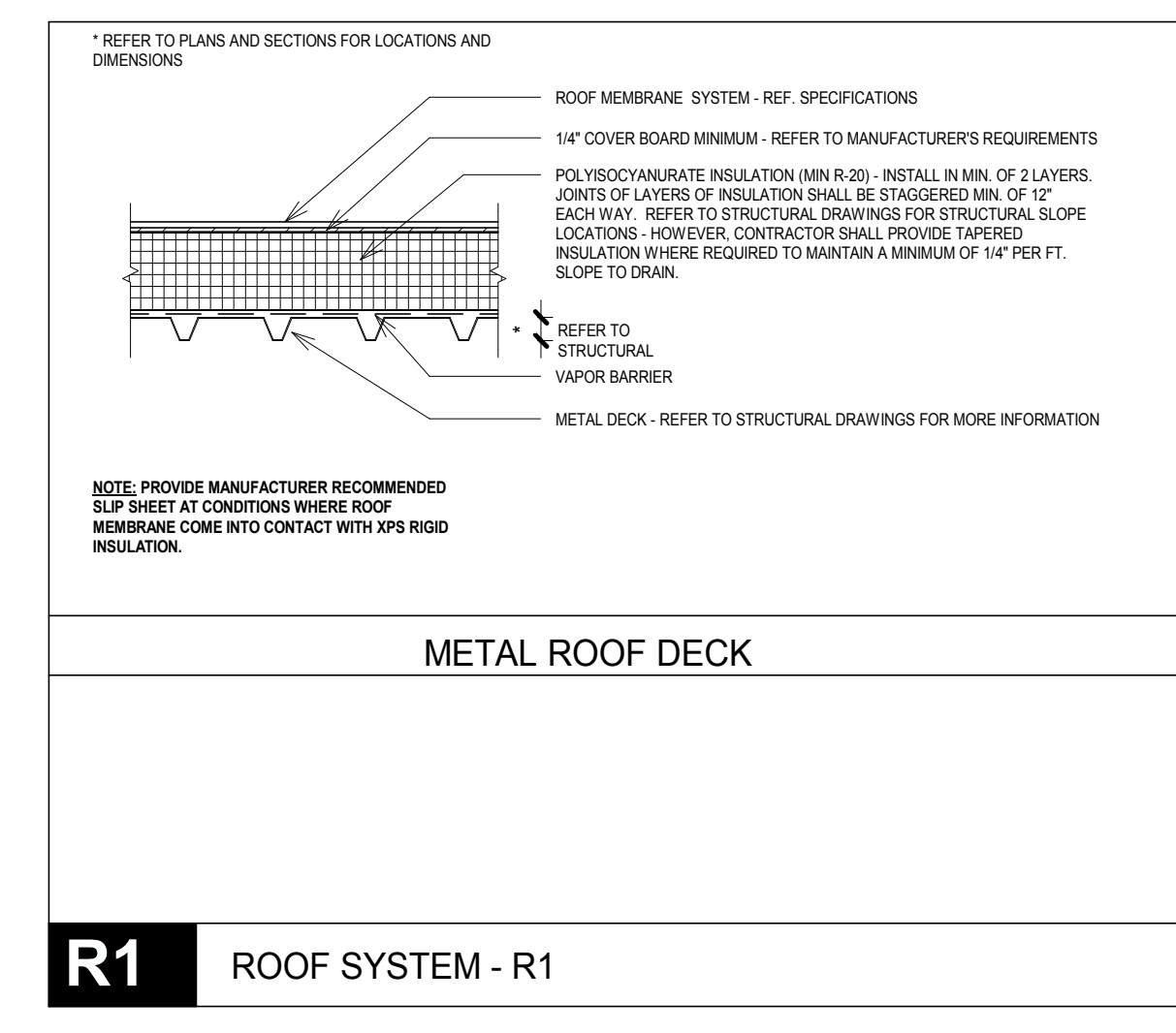
RATING	PRIORITY
3 HOUR ASSEMBLY	1
2 HOUR ASSEMBLY	2
1 HOUR ASSEMBLY	3
SMOKE RATED ASSEMBLY	4
NON RATED ASSEMBLY	5

(LOWER NUMBER, HIGHER PRIORITY)

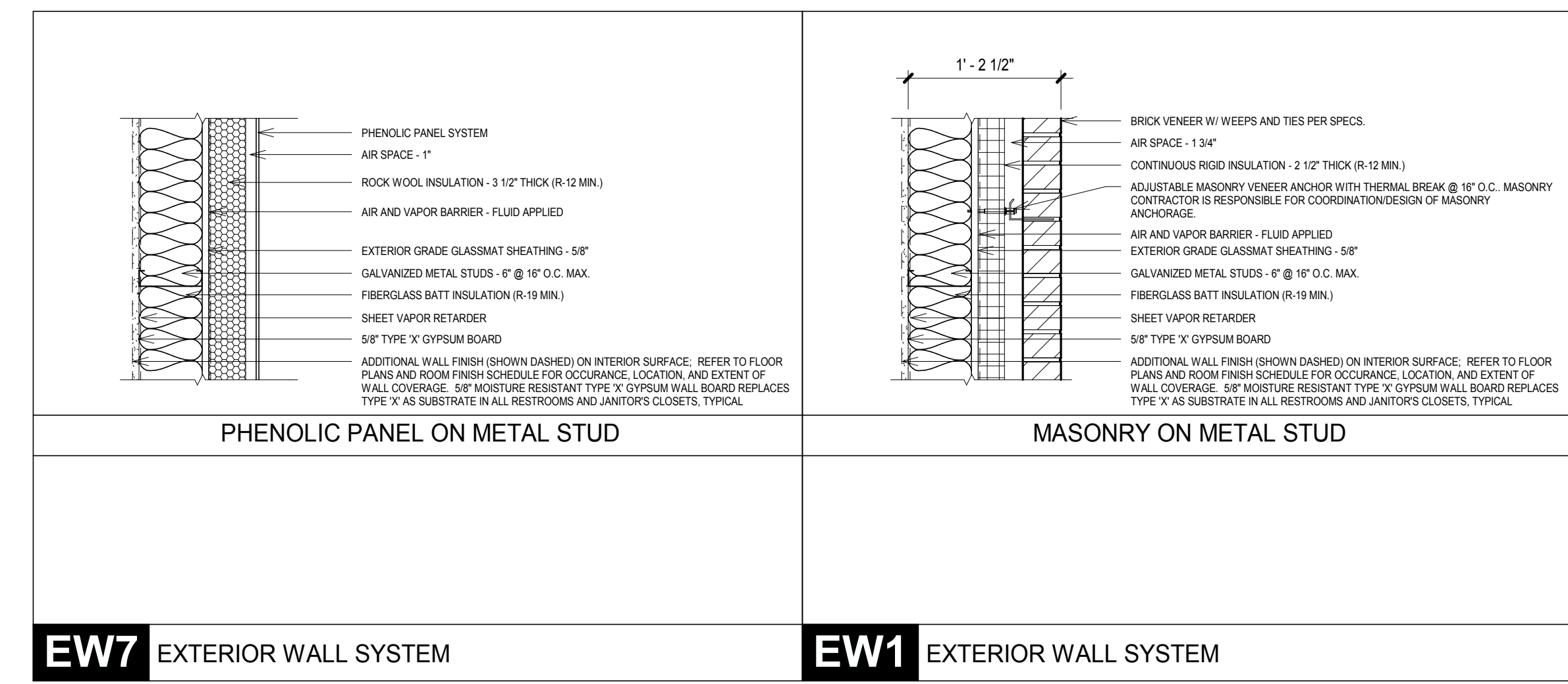
RATED WALL PRIORITY

GENERAL PARTITION NOTES

- ALL WALLS ARE TO BE TYPE 'A3' U.N.O.
- PARTITION SYMBOLS APPEAR ON LARGEST SCALE FLOOR PLAN PROVIDED FOR AREA.
- REFER TO FINISH PLANS FOR WALL FINISH, BASE, AND CEILING INFORMATION.
- REFER TO WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION.
- PROVIDE WATER-RESISTANT GYPSUM BOARD ON WALLS WITH PLUMBING FIXTURES AND WITHIN 4'-0" OF DRINKING FOUNTAINS/ WATER COOLERS/ U.N.O.
- PROVIDE LATERAL BRACING FOR PARTITIONS WHICH EXTEND ABOVE CEILING.
- PROVIDE FIRE RESISTIVE RATED GYPSUM WALL BOARD AT ALL RATED ASSEMBLIES TO MEET ASSEMBLY REQUIREMENTS.
- PROVIDE FIRE RESISTIVE JOINT SYSTEMS EQUAL TO WALL RATING AT ALL PENETRATIONS AND AT HEADFLOOR INTERSECTIONS WITH RATED ASSEMBLIES.
- PROVIDE ACOUSTICAL SEALANT AT WALL, SILL, HEAD, PENETRATIONS, AND ADDITIONAL SPECIFIED SOUND ATTENUATION COMPONENTS AT SOUND RATED WALLS.
- PROVIDE SPECIFIED TILE BACKER BOARD AT ALL WALLS SCHEDULED TO HAVE CERAMIC TILE.
- FRAME DOOR OPENINGS 4" FROM FACE OF PERPENDICULAR WALL ON HINGE SIDE AND 1'-8" MIN. FROM FACE OF PERP. WALL ON LATCH SIDE, UNLESS NOTED OTHERWISE.
- PROVIDE GYPSUM BOARD CONTROL JOINTS AND MASONRY CONTROL JOINTS AT WALLS OVER 30'-0" IN LENGTH. LOCATE ABOVE EDGE OF OPENING WHEN POSSIBLE.
- AT FIRE RATED WALLS WHERE OPENINGS ARE GREATER THAN 16 SQUARE INCHES OR WHERE TOTAL AREA OF OPENINGS EXCEEDS 100 SQUARE INCHES IN 100 SQUARE FEET, WRAP 5/8" TYPE 'X' GYPSUM BOARD BEHIND OPENINGS PER U.L. DESIGN #J510.
- ISOLATE NON-LOAD-BEARING STUD FRAMING FROM BUILDING STRUCTURE TO PREVENT TRANSFER OF VERTICAL LOADS INTO PARTITION WHILE PROVIDING LATERAL SUPPORT REQUIRED VIA USE OF DOUBLE TRACK TYPE (SECONDARY TRACK SET INSIDE DEEP-LEG TRACK) OR SLOTTED TRACK TYPE, EACH ALLOWING VERTICAL MOVEMENT OF THE STRUCTURE, PREVENTING ROTATION OF STUDS BUT MAINTAINING STRUCTURAL PERFORMANCE OF PARTITION.
- LINE OF STRUCTURE INDICATED FOR EACH PARTITION IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS OR GEOMETRY.
- FIRE RESISTANCE RATED PARTITIONS SHALL USE RATED FIRE RESISTANT FILL MATERIAL IN CONJUNCTION WITH AN APPROPRIATE RATED FIRESTOPPING SYSTEM.
- NON-RATED PARTITIONS SHALL USE ACOUSTICAL SEALANT.
- PROVIDE SHEET METAL OR FIRE RETARDANT WOOD BLOCKING IN WALL CAVITIES FOR ITEMS THAT ARE REQUIRED TO BE SECURED TO THE WALLS. REFERENCE MECHANICAL, PLUMBING, ELECTRICAL AND TECHNOLOGY DRAWINGS. COORDINATE WITH FURNITURE SUPPLIER WHERE APPROPRIATE.
- TAPE AND SPACKLE ALL PENETRATIONS IN GYPSUM BOARD PARTITIONS, INCLUDING, BUT NOT LIMITED TO WATER LINES, DRAINS, CONDUIT, THERMOSTATS, ETC. INSTALL FIRE RETARDANT SEALANT AT PENETRATIONS IN RATED PARTITIONS AS REQUIRED.
- ALL CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT UNITS LAID IN RUNNING BOND UNLESS NOTED OTHERWISE.
- ALL CMU WALLS SHALL EXTEND TO 4" MINIMUM ABOVE HIGHEST ADJACENT CEILING U.N.O.
- FOR PARTITIONS INDICATED TO RECEIVE SOUND ATTENUATION (S), EXTEND ATTENUATION TO FULL HEIGHT OF PARTITION U.N.O. FLOOR TRACK TO BE SET IN A CONTINUOUS BED OF SEALANT.
- IN AREAS DESIGNATED TO HAVE A RATED CEILING, BUILD WALLS THAT ARE NOT INDICATED TO GO TO DECK TO UNDERSIDE OF RATED CEILING.
- ALTHOUGH WALL STUD SIZE / SPACING ARE LISTED, CONTRACTOR WILL VERIFY AND PROVIDE APPROPRIATE SIZE / GAGE / SPACING OF STUDS REQUIRED FOR CONDITIONS INDICATED AND NOTIFY ARCHITECT OF ANY DISCREPANCY PRIOR TO FABRICATION / INSTALLATION.



R1 ROOF SYSTEM - R1



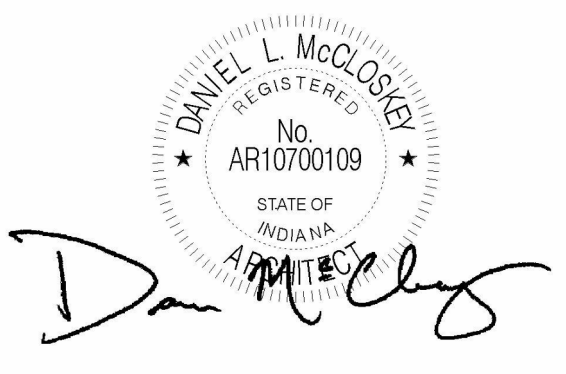
EW7 EXTERIOR WALL SYSTEM **EW1 EXTERIOR WALL SYSTEM**

G WALL PARTITION TYPE		F WALL PARTITION TYPE		B WALL PARTITION TYPE		A WALL PARTITION TYPE	
NO SOUND ATTENUATION DESIGNATION	WITH SOUND ATTENUATION DESIGNATION	NO SOUND ATTENUATION DESIGNATION	WITH SOUND ATTENUATION DESIGNATION	NO SOUND ATTENUATION DESIGNATION	WITH SOUND ATTENUATION DESIGNATION	NO SOUND ATTENUATION DESIGNATION	WITH SOUND ATTENUATION DESIGNATION
STUD WIDTH	PART. WIDTH	STUD WIDTH	PART. WIDTH	STUD WIDTH	PART. WIDTH	STUD WIDTH	PART. WIDTH
G1	G1S	F1	F1S	B1	B1S	A1	A1S
1'-0"	2'-14"	1'-0"	2'-14"	1'-0"	2'-7"	1'-0"	2'-7"
G2	G2S	F2	F2S	B2	B2S	A2	A2S
2'-10"	3'-18"	2'-10"	3'-18"	2'-10"	3'-34"	2'-10"	3'-34"
G3	G3S	F3	F3S	B3	B3S	A3	A3S
3'-0"	4'-14"	3'-0"	4'-14"	3'-0"	4'-7"	3'-0"	4'-7"
G4	G4S	F4	F4S	B4	B4S	A4	A4S
0"	0'-0"	0"	0'-0"	0"	7'-14"	0"	7'-14"
G5	G5S	F5	F5S	B5	B5S	A5	A5S
0"	0'-0"	0"	0'-0"	0"	9'-14"	0"	9'-14"



PORTER COUNTY ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



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ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

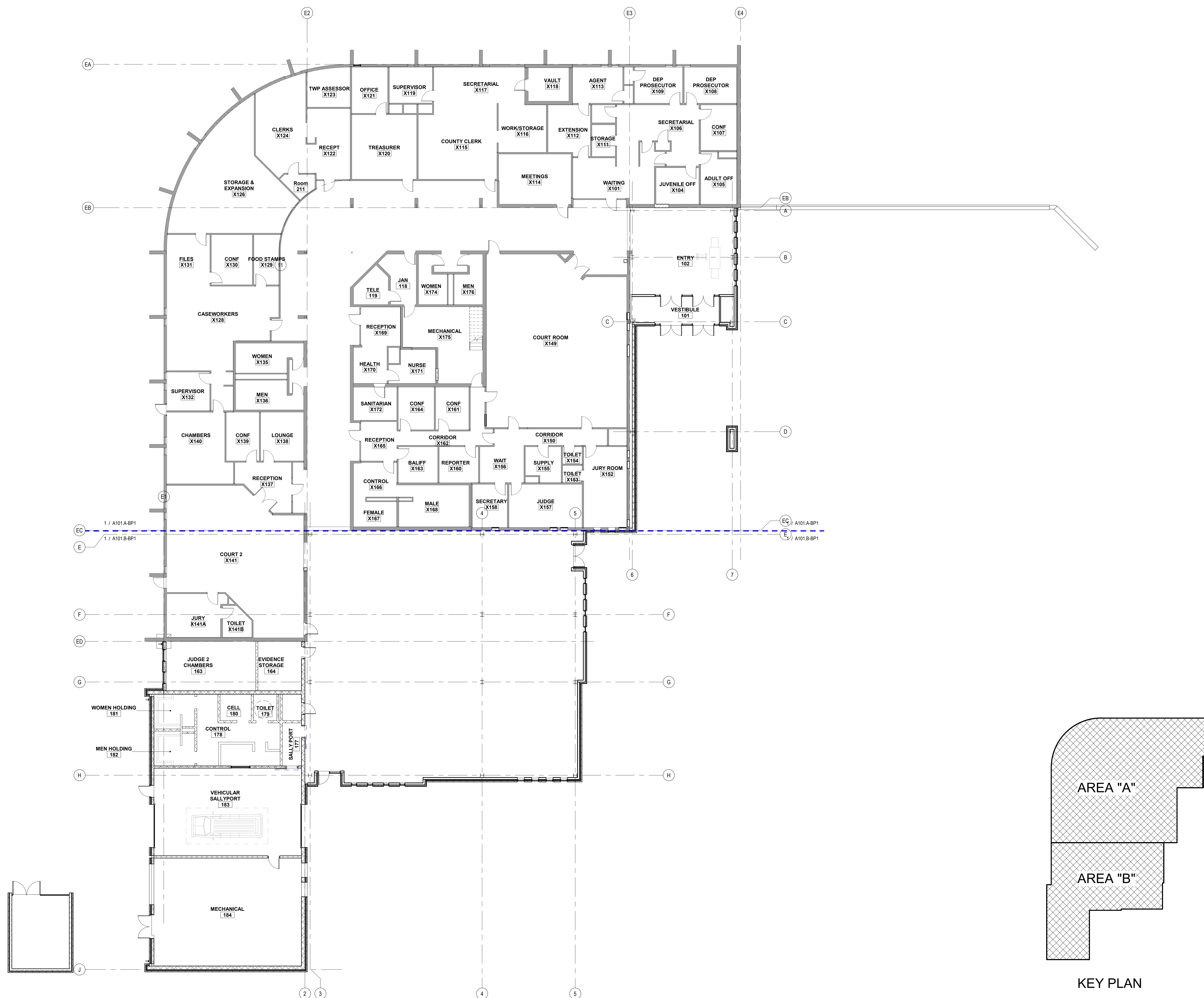
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2017.01279

FIRST FLOOR PLAN - OVERALL

A100-BP1

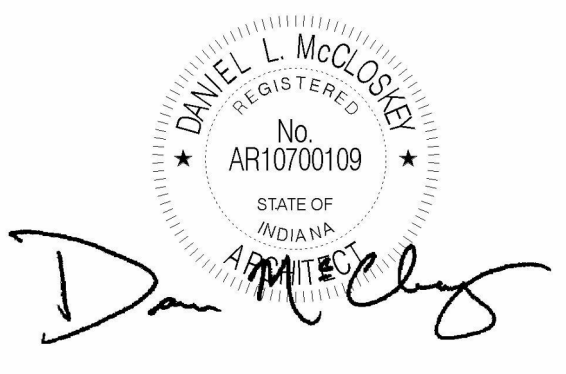


BASE_01_FIRST LEVEL Overall - BP1
3/32" = 1'-0"



PORTER COUNTY ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



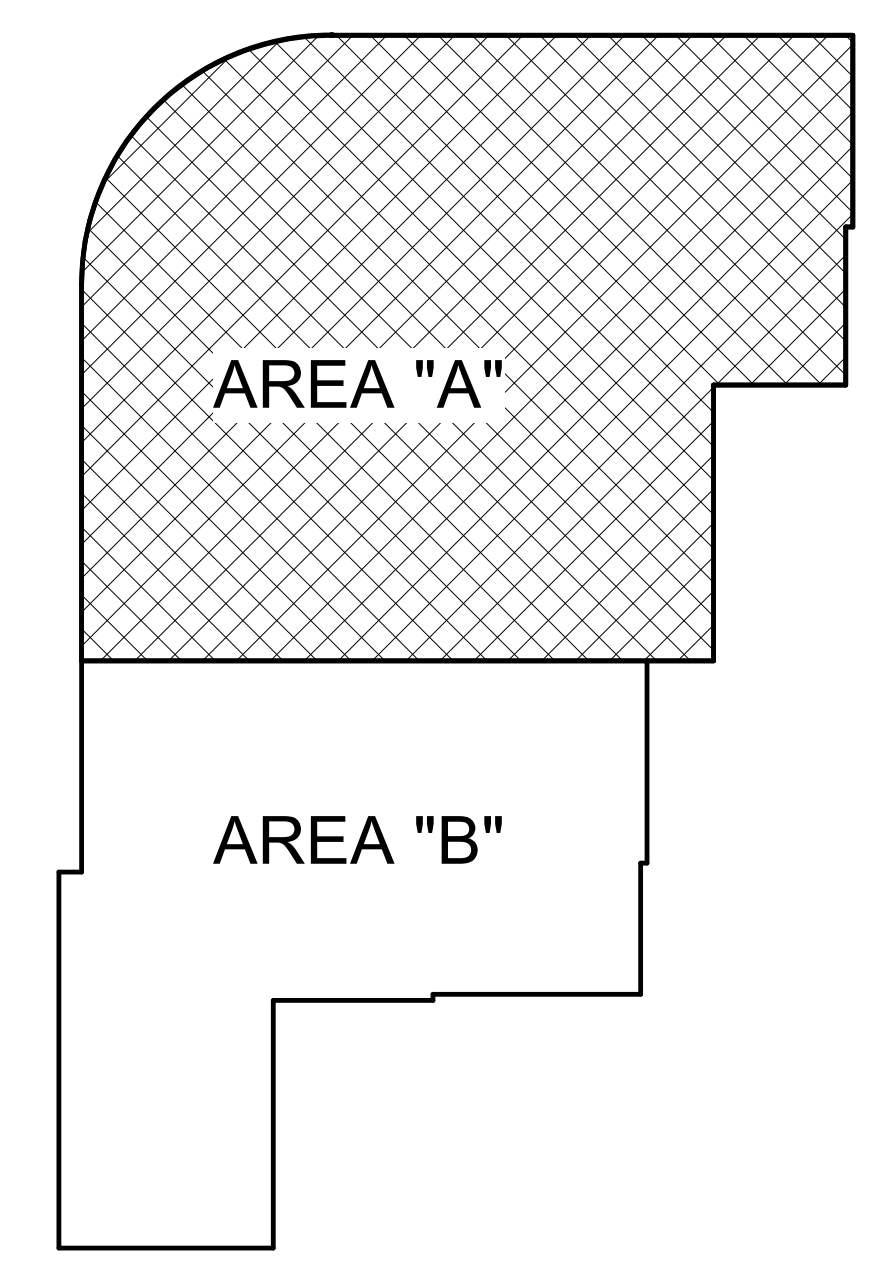
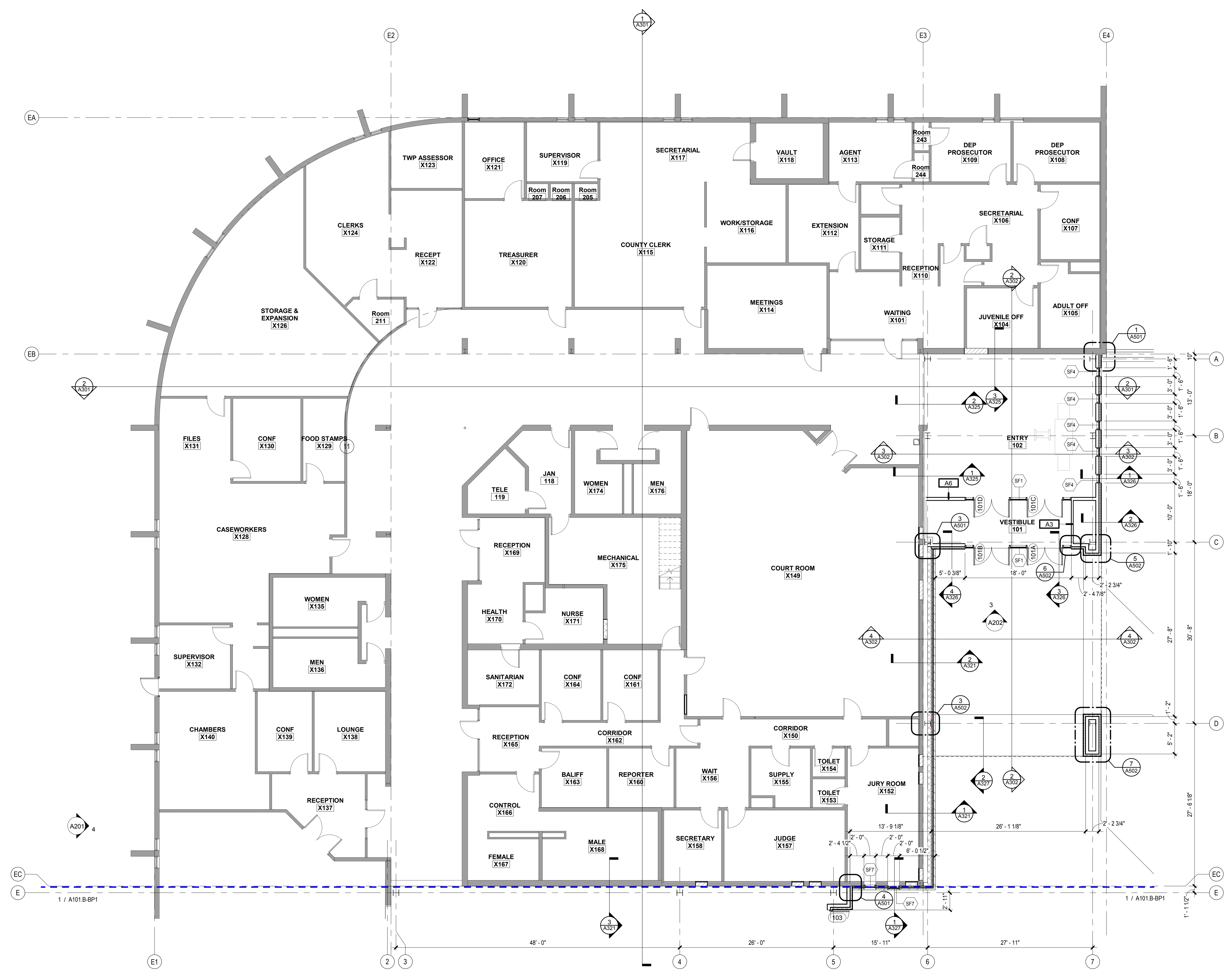
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ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

FIRST FLOOR PLAN -
AREA A



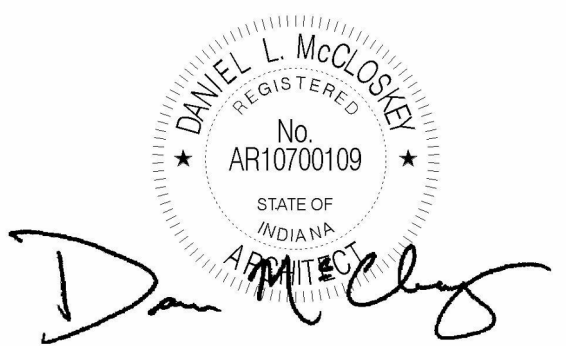
KEY PLAN

BASE_01_FIRST LEVEL - UNIT A
1/8" = 1'-0"



PORTER COUNTY ANNEX

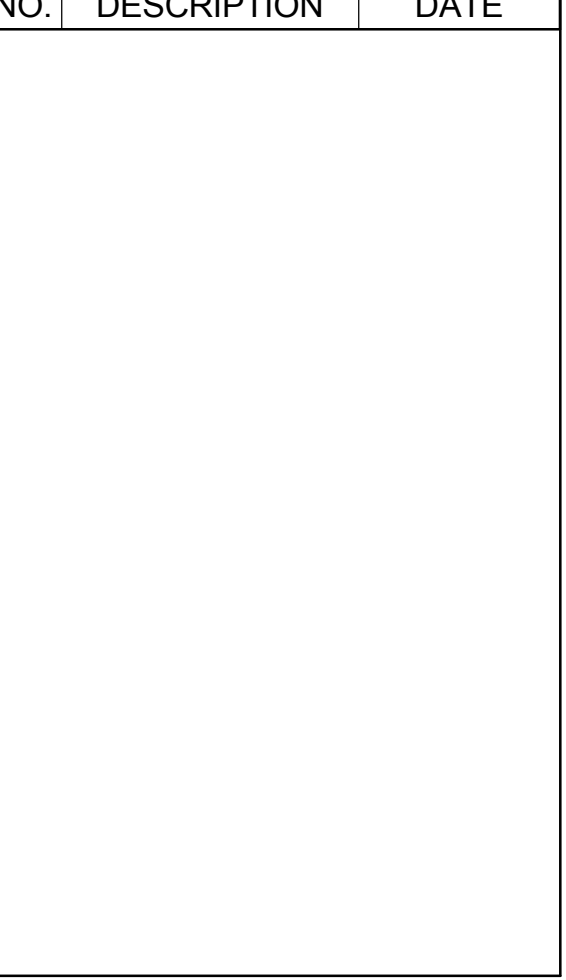
3560 WILLOWCREEK RD
PORTAGE, IN 46368



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Daniel L. McCloskey

ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

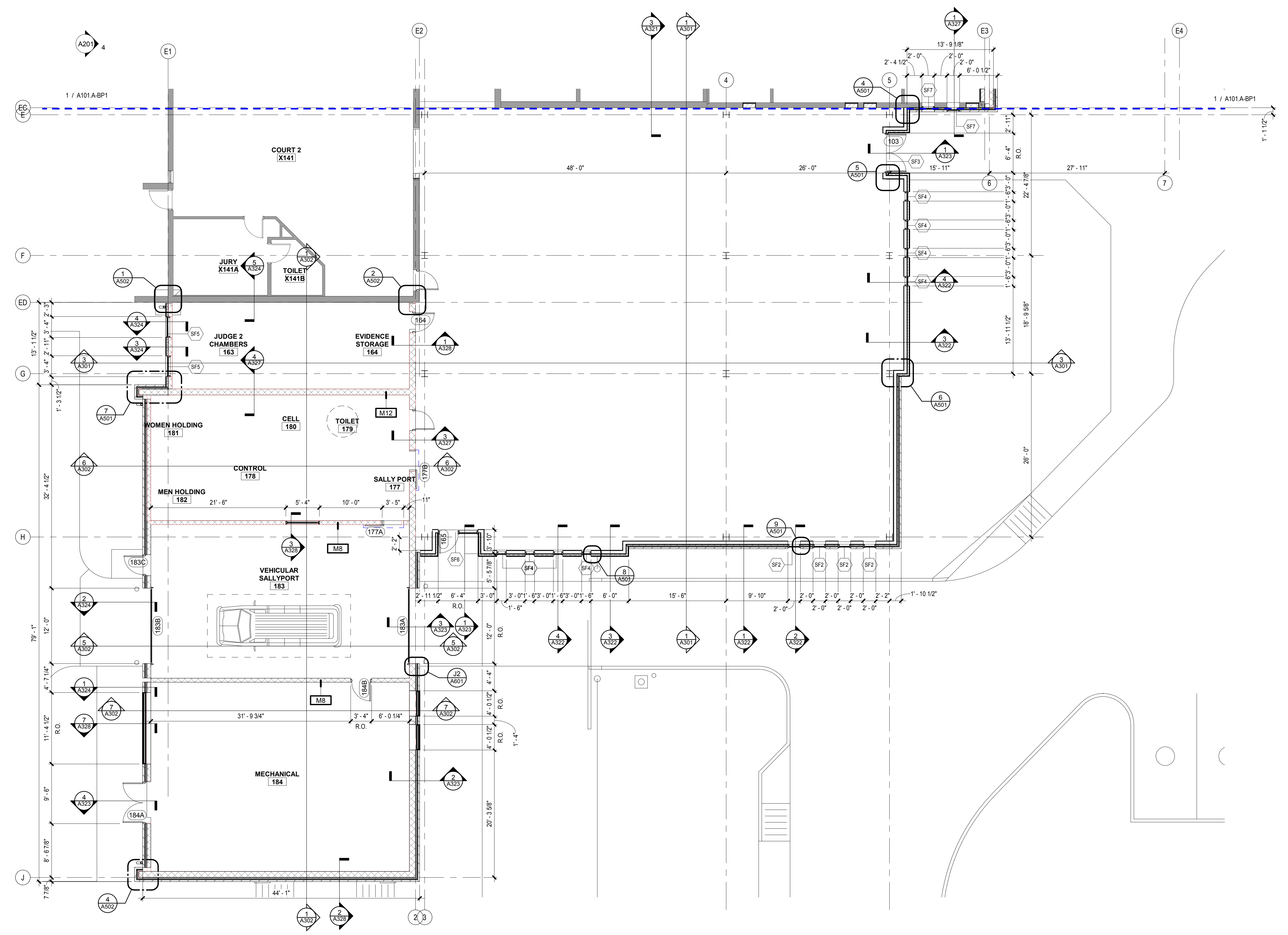
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NO.	DESCRIPTION	DATE



Project Number 2017.01279

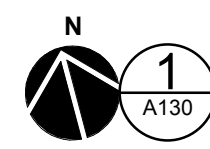
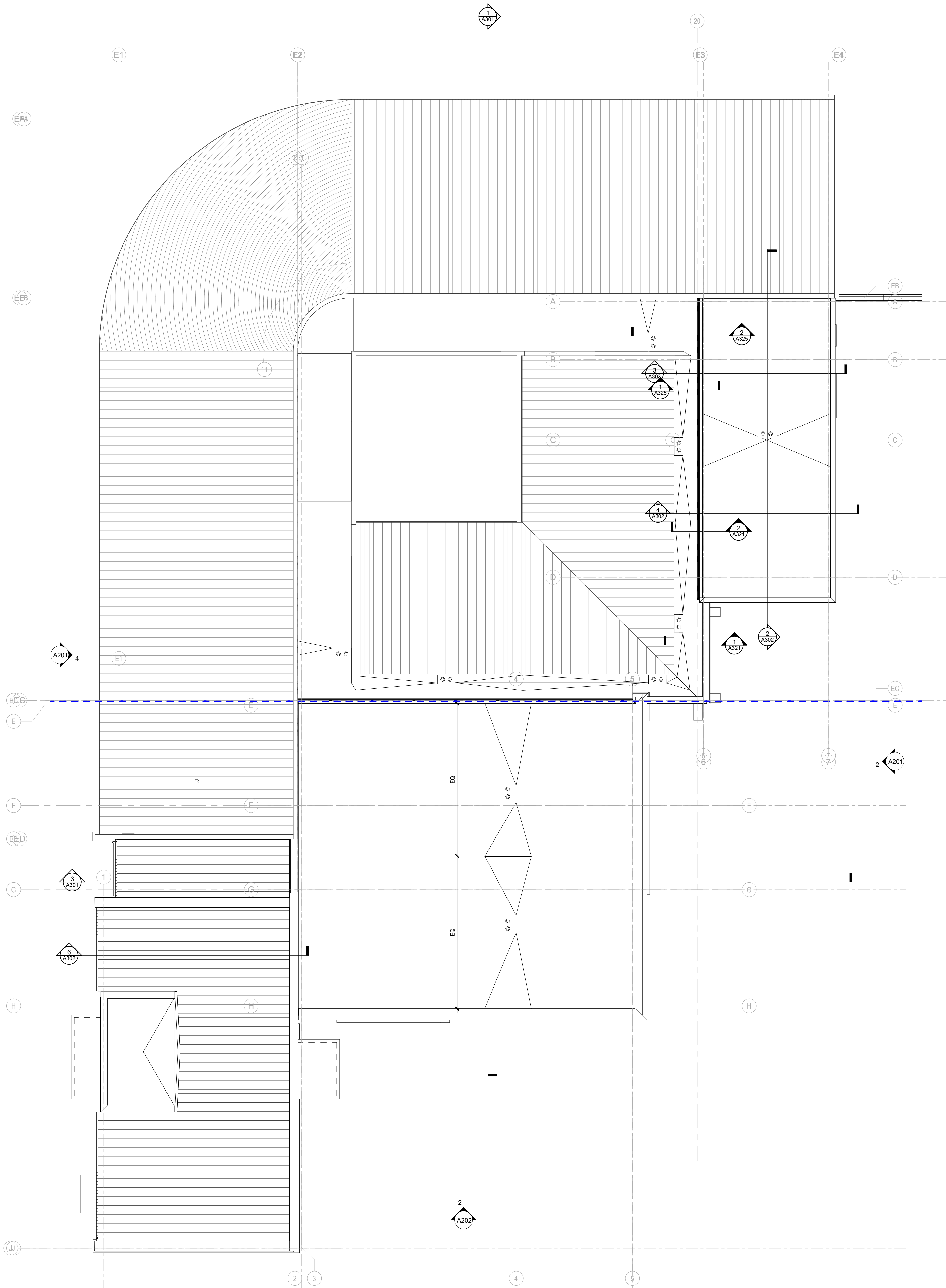
FIRST FLOOR PLAN - AREA B

A101.B-BP1



BASE_01_FIRST LEVEL - UNIT B
1/8" = 1'-0"

8/20/2018 3:12:58 PM



BASE_01_ROOF LEVEL Overall - BP1
3/32" = 1'-0"

KEYED ROOF PLAN NOTES (NOTED WITH ①)

- 1 STANDING SEAM METAL ROOFING SYSTEM. PROVIDE A 3:12 SLOPE AND REFER TO SPECIFICATIONS
- 2 FULLY ADHERED MEMBRANE ROOFING SYSTEM (MEMBRANE OVER POLYISO ROOF INSULATION). INSTALL ROOF INSULATION IN MIN. 2 LAYERS WITH JOINTS OFFSET BY 12" MIN. PROVIDE TAPERED INSULATION TO ACHIEVE MIN. 1/4:12 SLOPE TO ENSURE POSITIVE DRAINAGE TO INTERNAL ROOF DRAIN LOCATIONS
- 3 PRE-FINISHED METAL COPING OVER PARAPET WALL
- 4 ROOF DRAIN AND OVERFLOW SYSTEM. COORDINATE W/ PLUMBING DRAWINGS FOR STORM DRAINAGE PIPING AND CONNECTIONS TO SYSTEM
- 5 LOCATION OF ROOFTOP HVAC UNITS SHOWN FOR REFERENCE ONLY. COORDINATE FINAL LOCATIONS WITH MECHANICAL & STRUCTURAL DRAWINGS. CREATE CRICKET AT UNIT HIGH SIDE TO ENSURE POSITIVE DRAINAGE AROUND UNIT. PROVIDE ADDITIONAL CONCRETE WALKWAY PAD AT CONDENSATE DRAIN LINE.
- 6 BUILDING/ROOF EXPANSION JOINT - REFER TO DETAIL XXX



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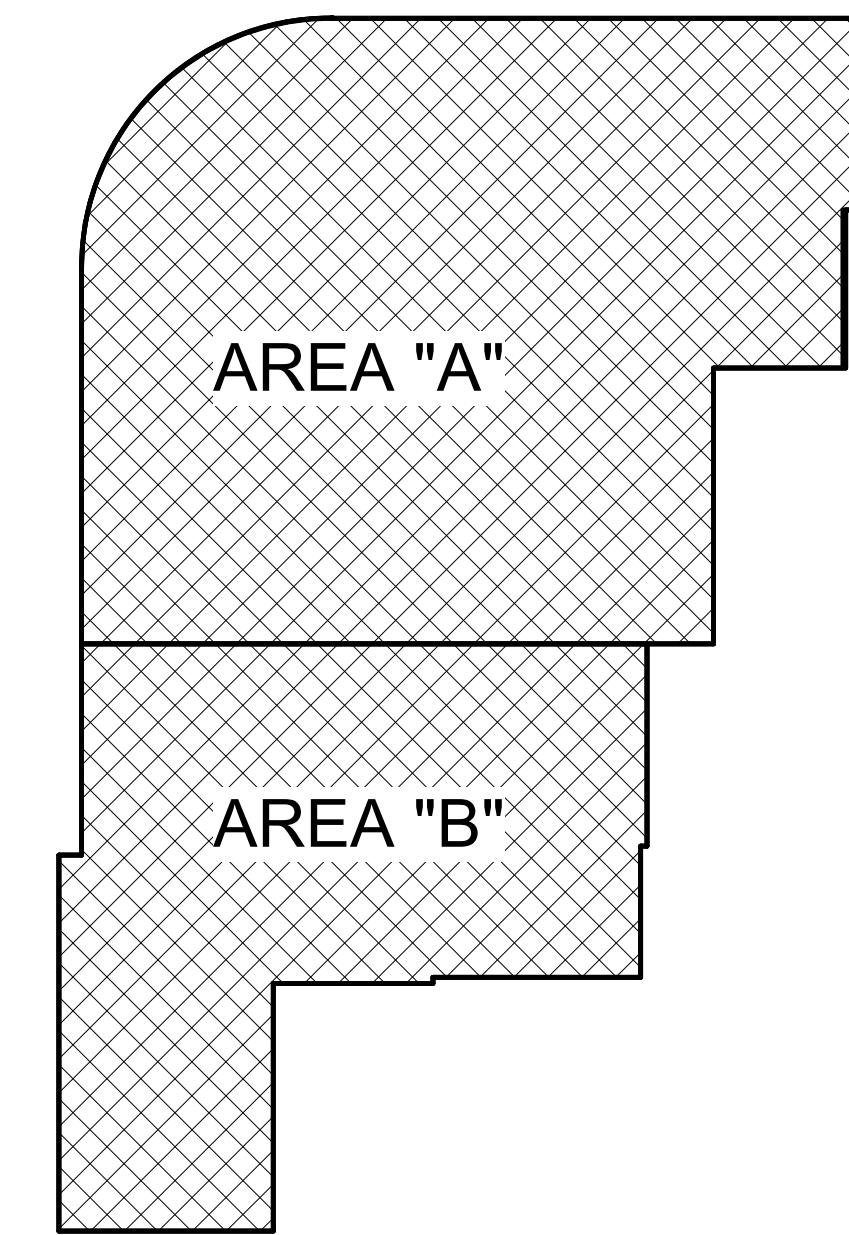
PORTER COUNTY ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



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ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1



KEY PLAN

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2017.01279

ROOF PLAN -
OVERALL

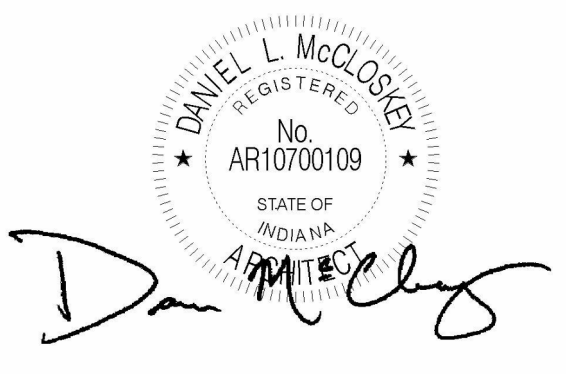
A130



- KEYED ROOF PLAN NOTES (NOTED WITH ①)**
- 1 STANDING SEAM METAL ROOFING SYSTEM. PROVIDE A 3:12 SLOPE AND REFER TO SPECIFICATIONS
 - 2 FULLY ADHERED MEMBRANE ROOFING SYSTEM (MEMBRANE OVER POLYISO ROOF INSULATION). INSTALL ROOF INSULATION IN MIN. 2 LAYERS WITH JOINTS OFFSET BY 12" MIN. PROVIDE TAPERED INSULATION TO ACHIEVE MIN. 1/4" SLOPE TO ENSURE POSITIVE DRAINAGE TO INTERNAL ROOF DRAIN LOCATIONS
 - 3 PRE-FINISHED METAL COPING OVER PARAPET WALL
 - 4 ROOF DRAIN AND OVERFLOW SYSTEM. COORDINATE W/ PLUMBING DRAWINGS FOR STORM DRAINAGE PIPING AND CONNECTIONS TO SYSTEM
 - 5 LOCATION OF ROOFTOP HVAC UNITS SHOWN FOR REFERENCE ONLY. COORDINATE FINAL LOCATIONS WITH MECHANICAL & STRUCTURAL DRAWINGS. CREATE CRICKET AT UNIT HIGH SIDE TO ENSURE POSITIVE DRAINAGE AROUND UNIT. PROVIDE ADDITIONAL CONCRETE WALKWAY PAD AT CONDENSATE DRAIN LINE.
 - 6 BUILDING/ROOF EXPANSION JOINT - REFER TO DETAIL XXX

PORTER COUNTY ANNEX

3560 WILLOWCREEK RD
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ISSUANCE INDEX

DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

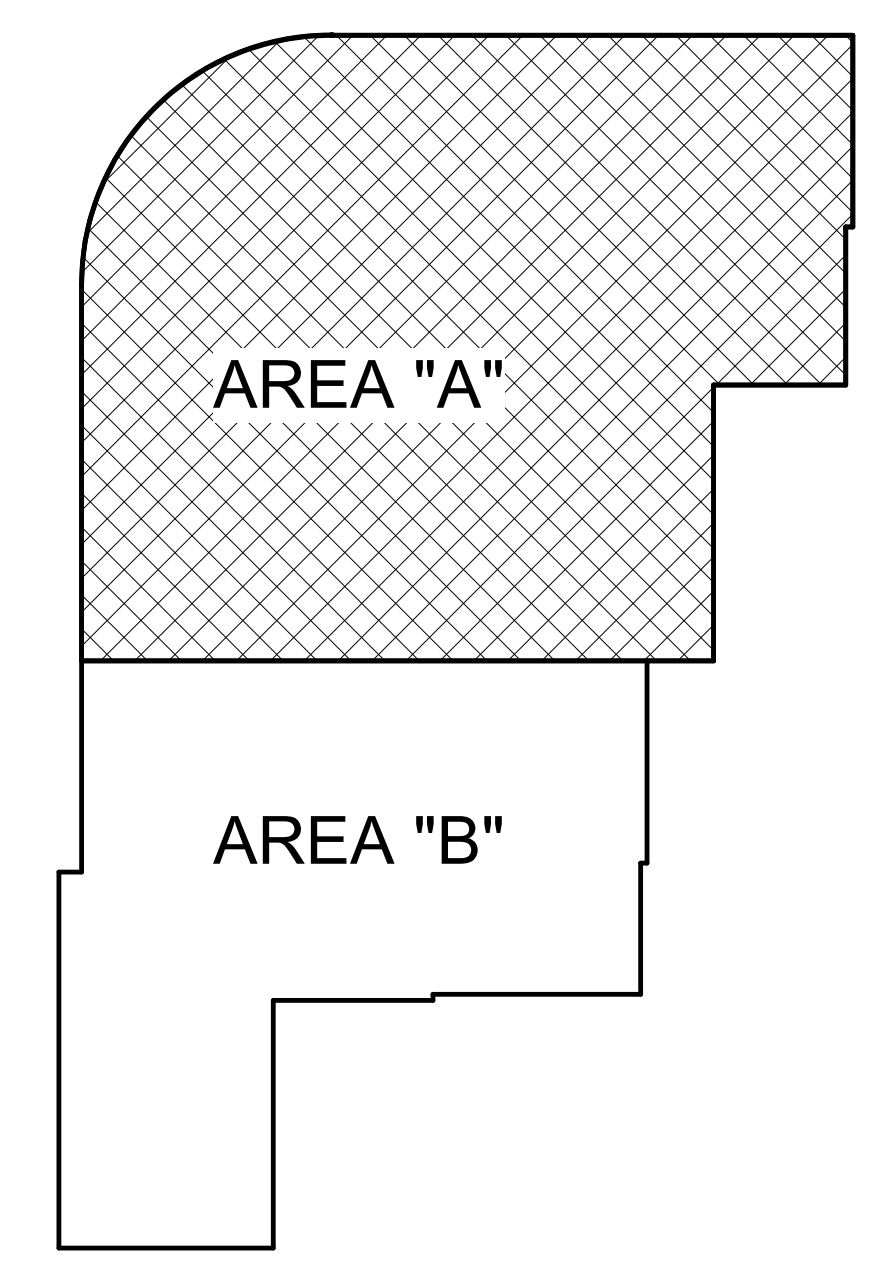
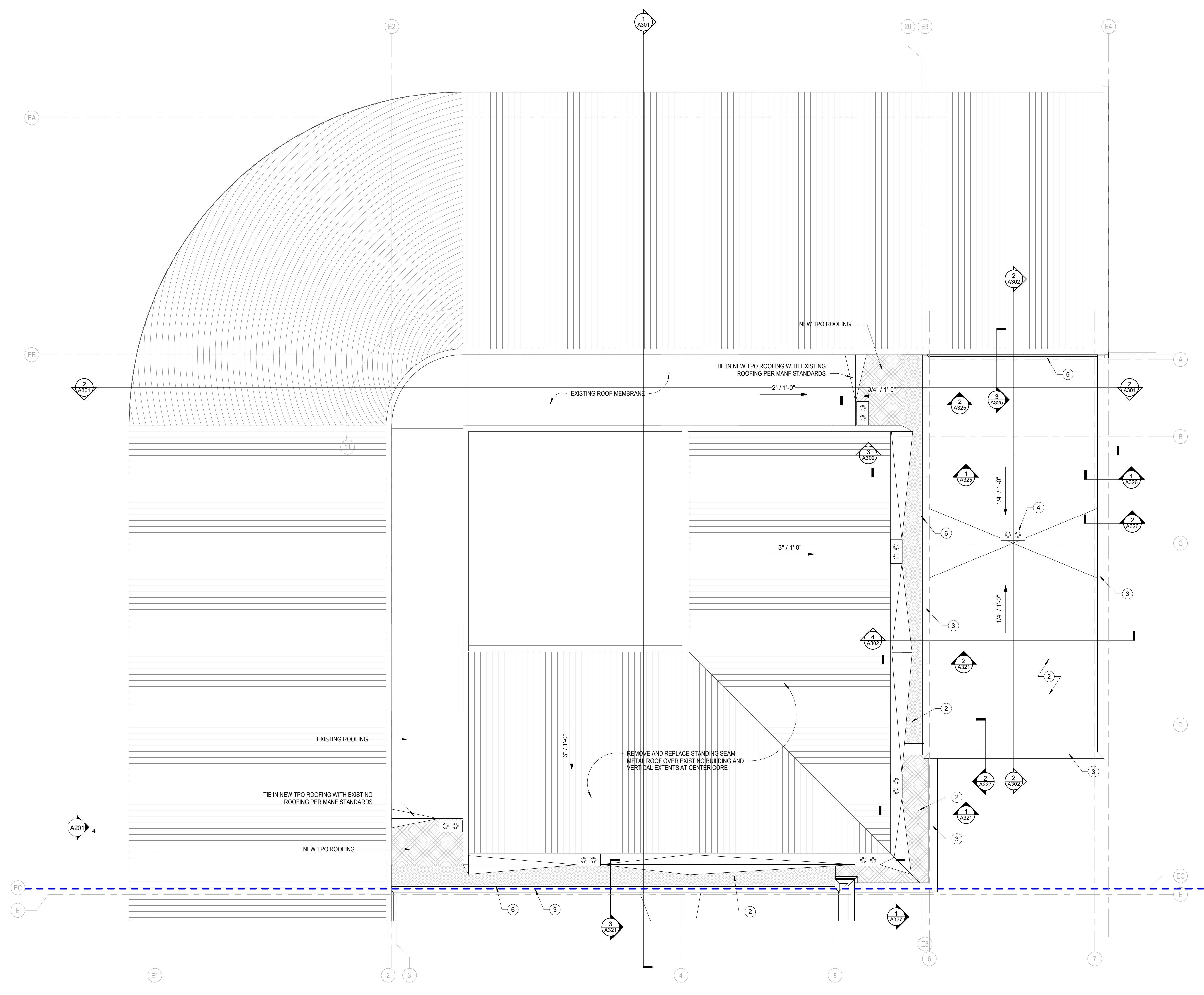
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2017.01279

ROOF PLAN - AREA A

A131.A



KEY PLAN

BASE_01_ROOF LEVEL Overall - BP1 - UNIT A
1/8" = 1'-0"



- KEYED ROOF PLAN NOTES (NOTED WITH ①)**
- 1 STANDING SEAM METAL ROOFING SYSTEM. PROVIDE A 3:12 SLOPE AND REFER TO SPECIFICATIONS
 - 2 FULLY ADHERED MEMBRANE ROOFING SYSTEM (MEMBRANE OVER POLYISO ROOF INSULATION). INSTALL ROOF INSULATION IN MIN. 2 LAYERS WITH JOINTS OFFSET BY 12" MIN. PROVIDE TAPERED INSULATION TO ACHIEVE MIN. 1/4:12 SLOPE TO ENSURE POSITIVE DRAINAGE TO INTERNAL ROOF DRAIN LOCATIONS
 - 3 PRE-FINISHED METAL COPING OVER PARAPET WALL
 - 4 ROOF DRAIN AND OVERFLOW SYSTEM. COORDINATE W/ PLUMBING DRAWINGS FOR STORM DRAINAGE PIPING AND CONNECTIONS TO SYSTEM
 - 5 LOCATION OF ROOFTOP HVAC UNITS SHOWN FOR REFERENCE ONLY. COORDINATE FINAL LOCATIONS WITH MECHANICAL & STRUCTURAL DRAWINGS. CREATE CRICKET AT UNIT HIGH SIDE TO ENSURE POSITIVE DRAINAGE AROUND UNIT. PROVIDE ADDITIONAL CONCRETE WALKWAY PAD AT CONDENSATE DRAIN LINE.
 - 6 BUILDING/ROOF EXPANSION JOINT - REFER TO DETAIL XXX

PORTER COUNTY ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



CERTIFIED BY

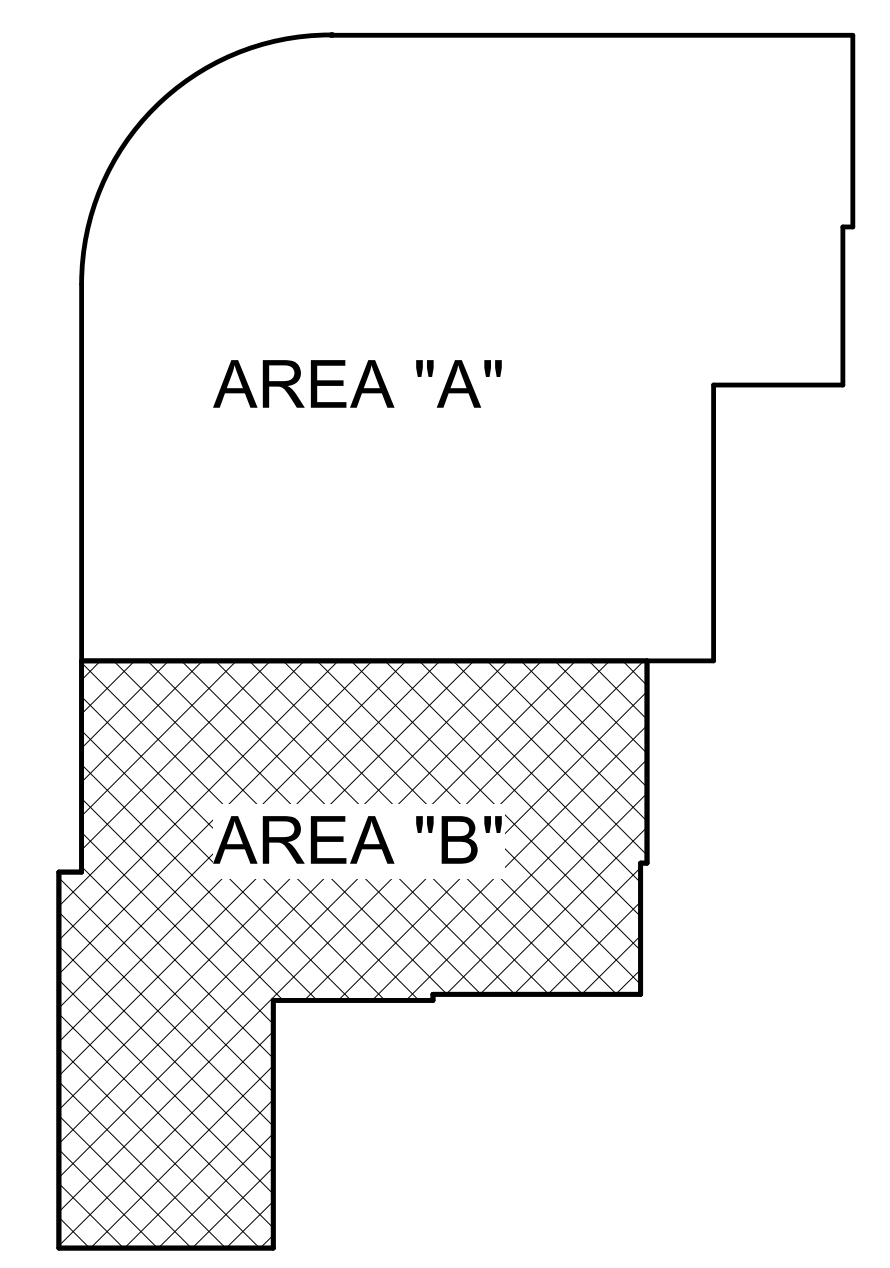
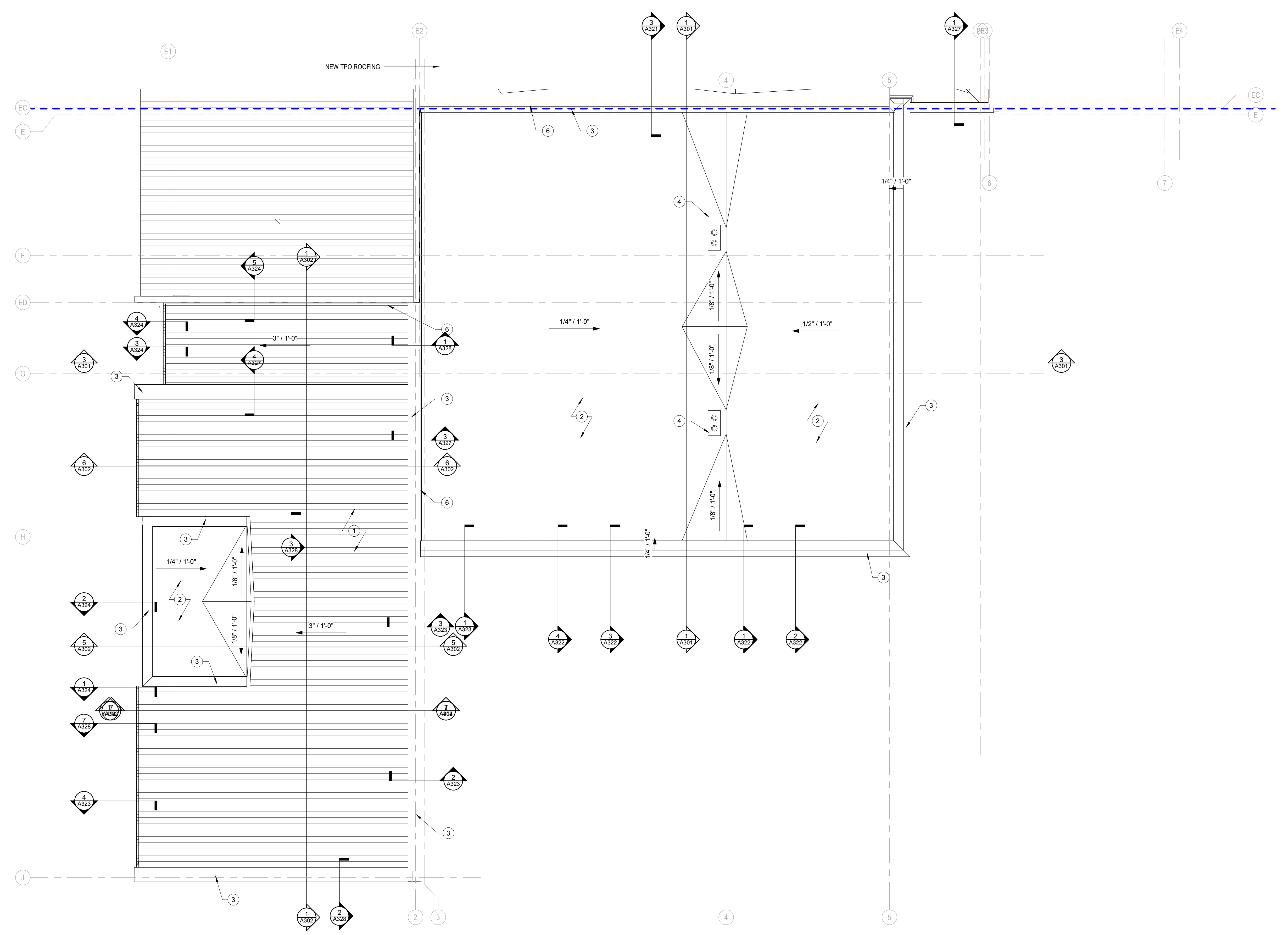
ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

ROOF PLAN - AREA B

A131.B



KEY PLAN

BASE_01_ROOF LEVEL Overall - BP1 - UNIT B
1/8" = 1'-0"



PORTER COUNTY ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



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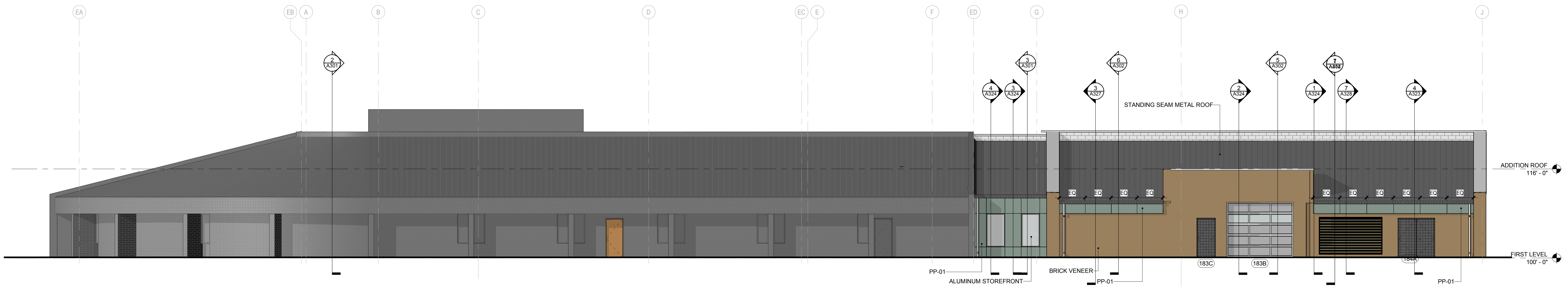
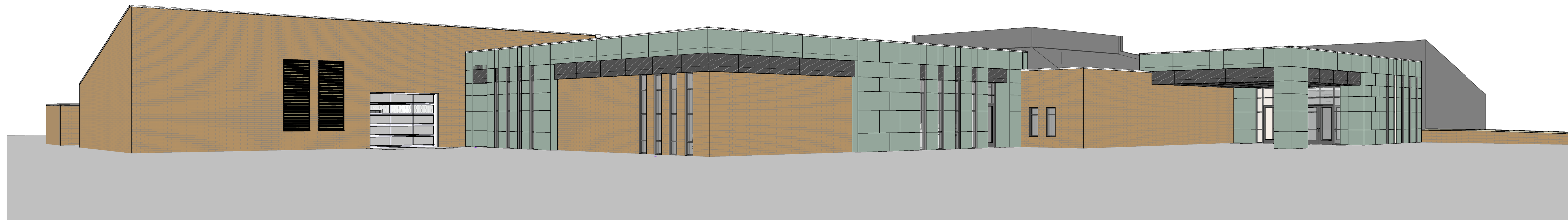
ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

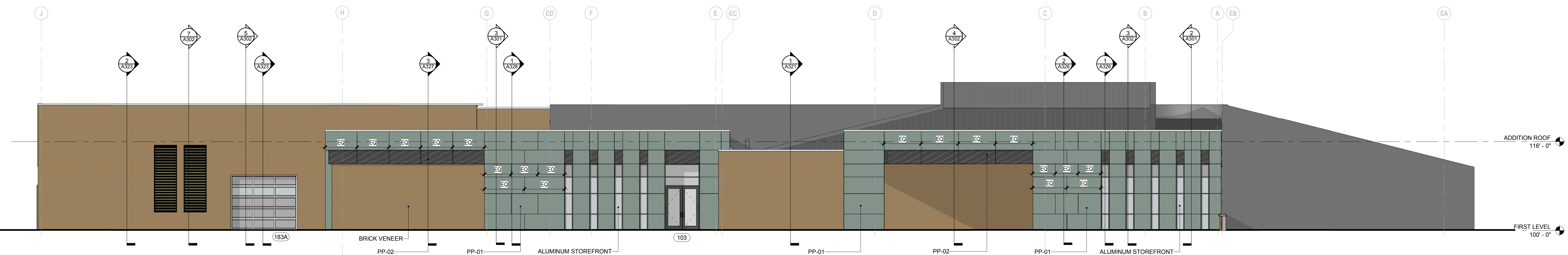
Project Number 2017.01279

EXTERIOR
ELEVATIONS

A201



4 BASE WEST
1/8" = 1'-0"

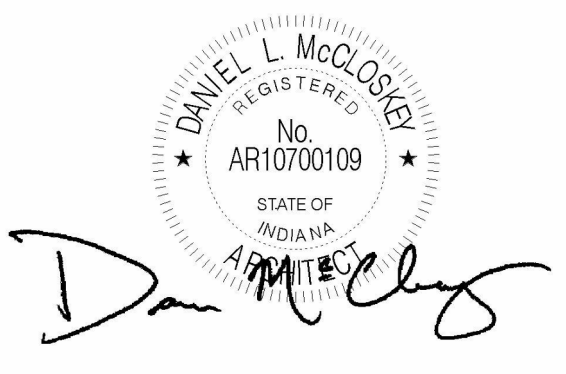


2 BASE EAST
1/8" = 1'-0"



PORTER COUNTY ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



CERTIFIED BY
Daniel L. McCloskey

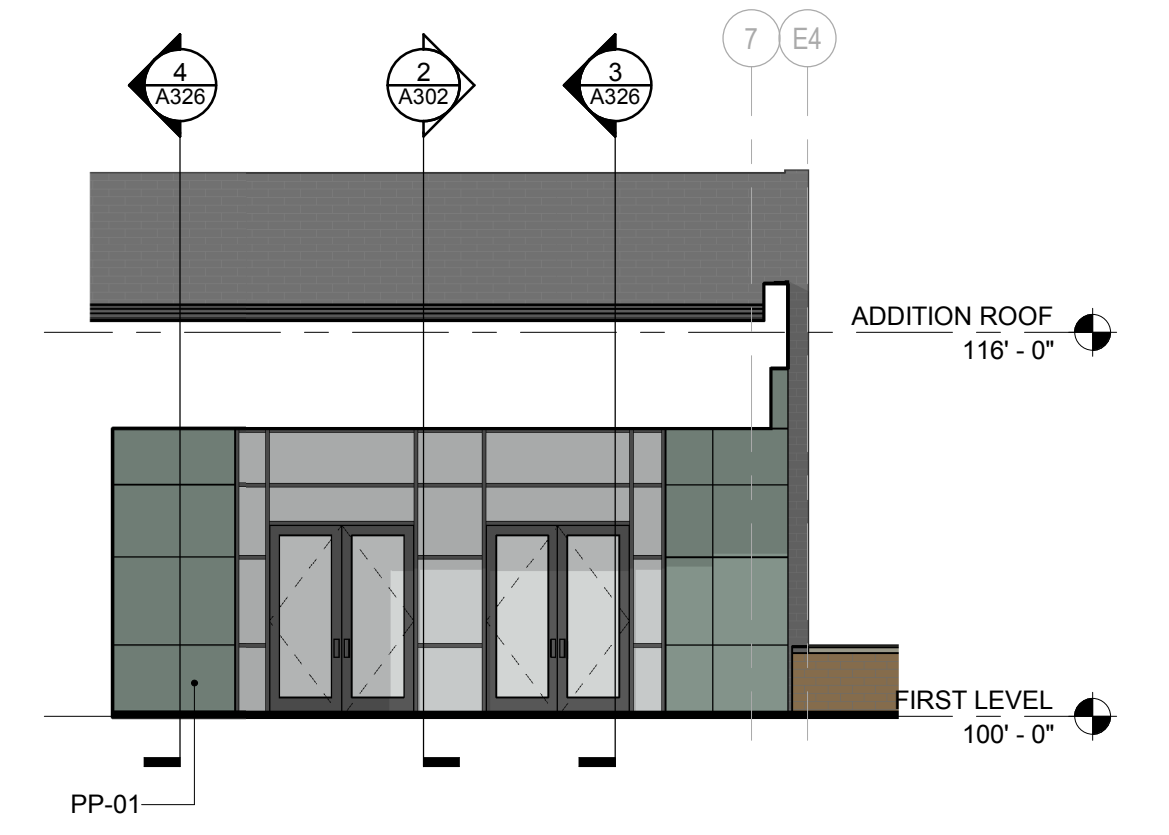
ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

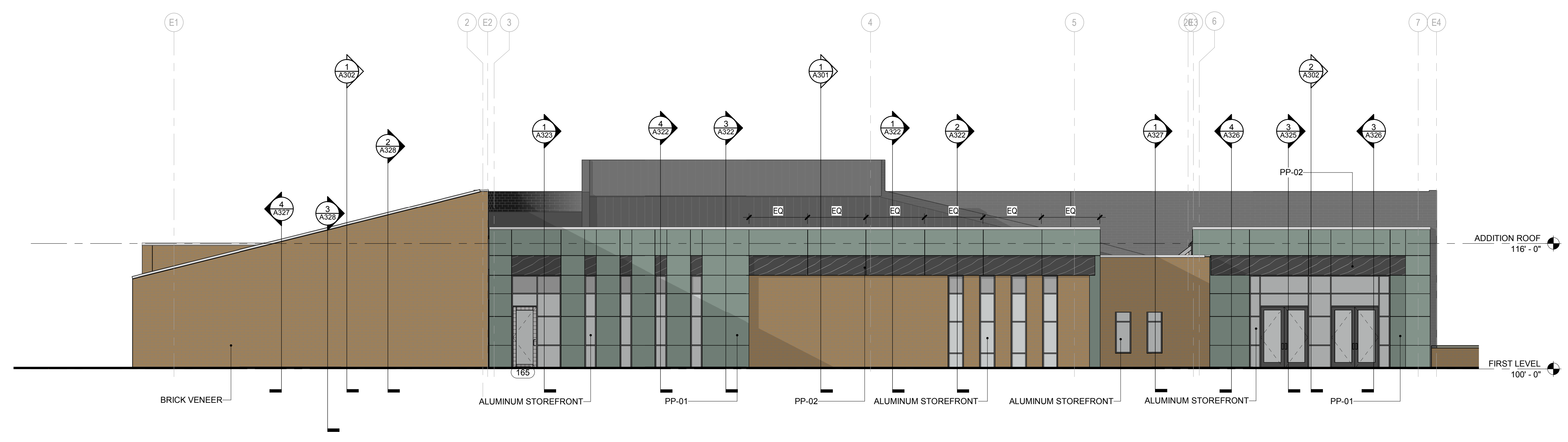
Project Number 2017.01279

EXTERIOR
ELEVATIONS

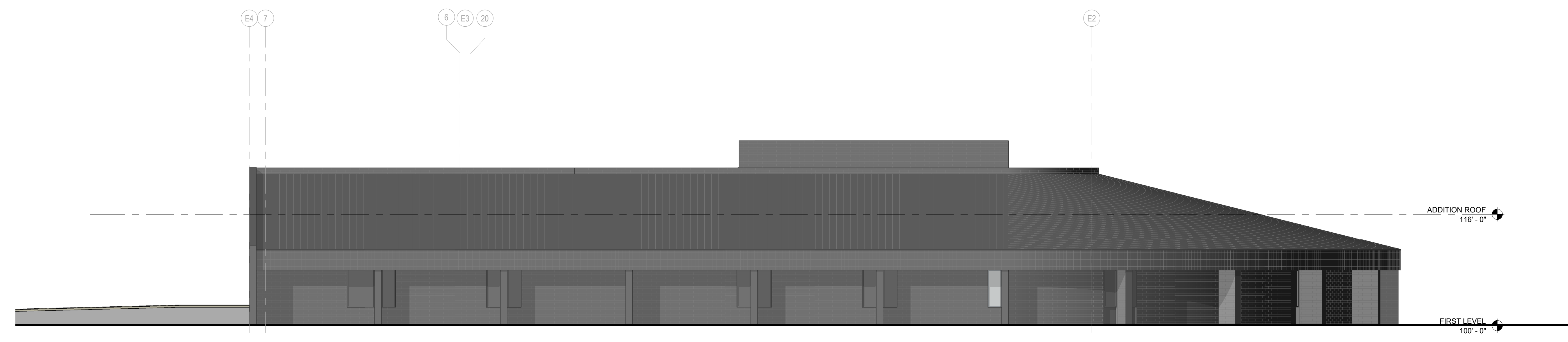
A202



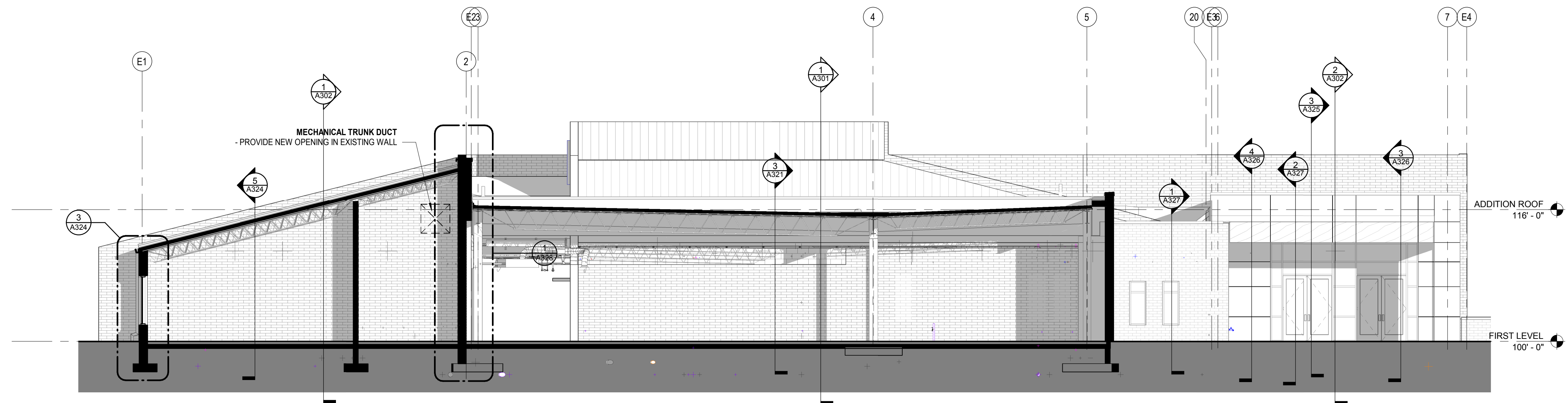
3 PARTIAL ENTRY ELEVATION
1/8" = 1'-0"



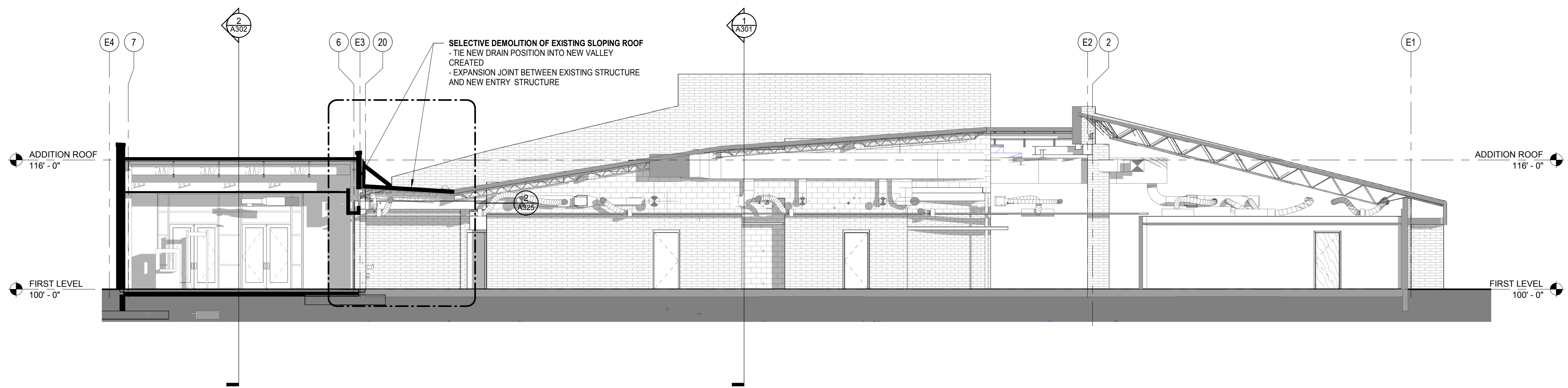
2 BASE SOUTH
1/8" = 1'-0"



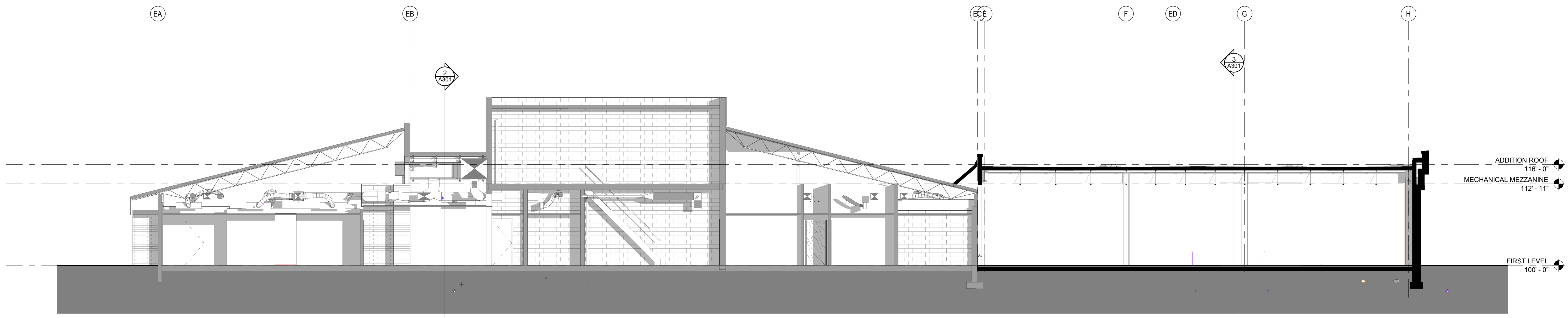
1 BASE NORTH
1/8" = 1'-0"



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



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



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

PORTER COUNTY ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368

DANIEL L. MCCLOSKEY
REGISTERED
No. AR10700109
STATE OF INDIANA
Professional Engineer
Daniel L. McCloskey

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ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

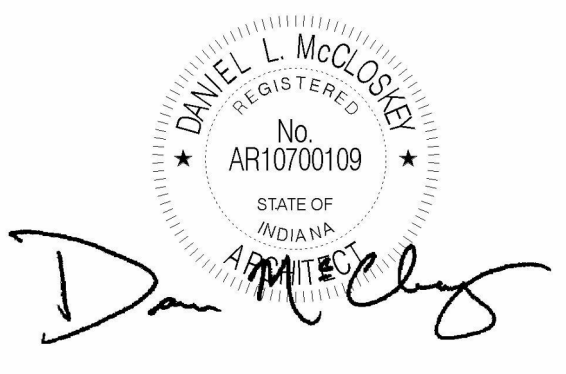
BUILDING SECTIONS

A301



PORTER COUNTY ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



CERTIFIED BY
Daniel L. McCloskey

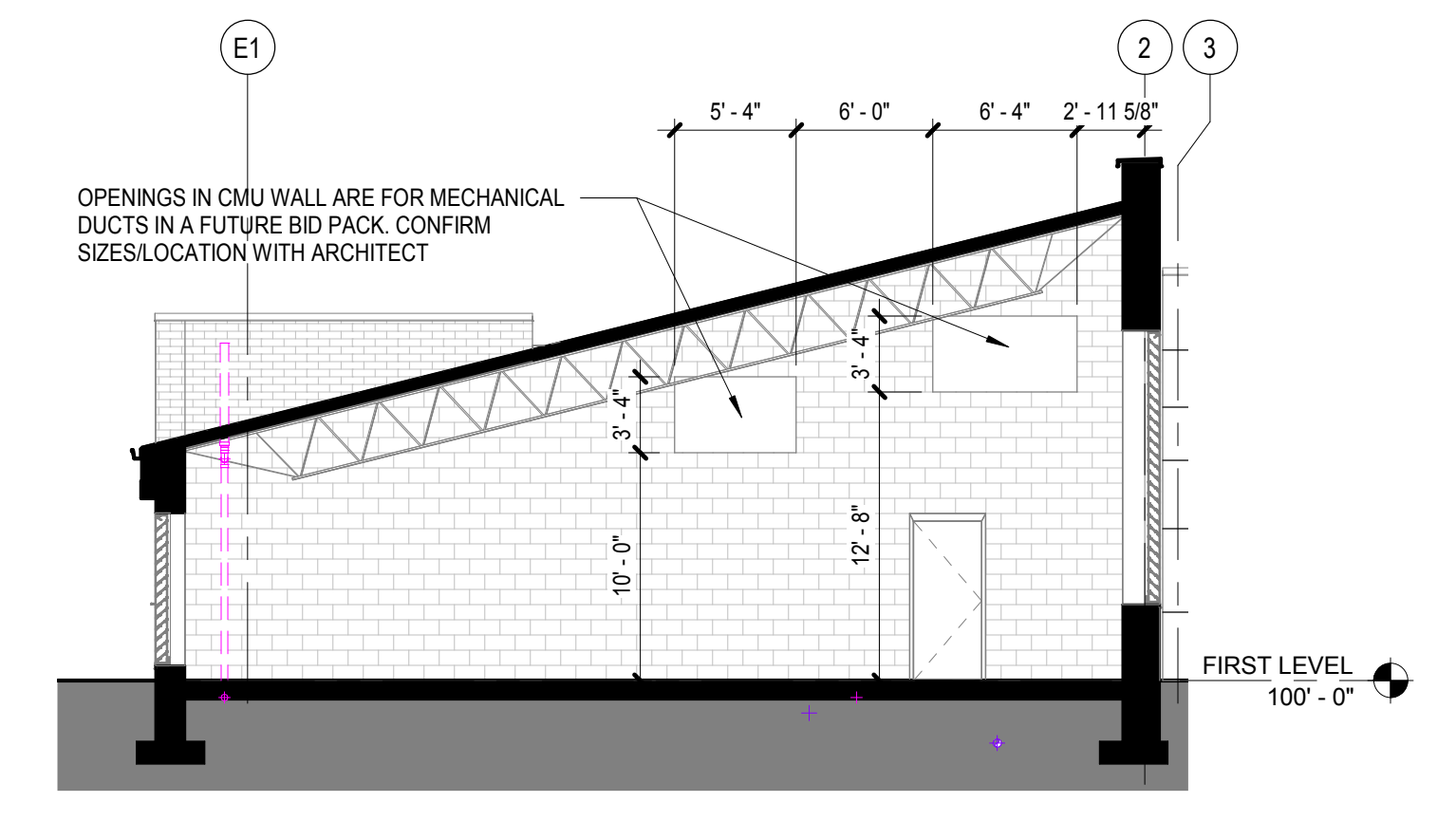
ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

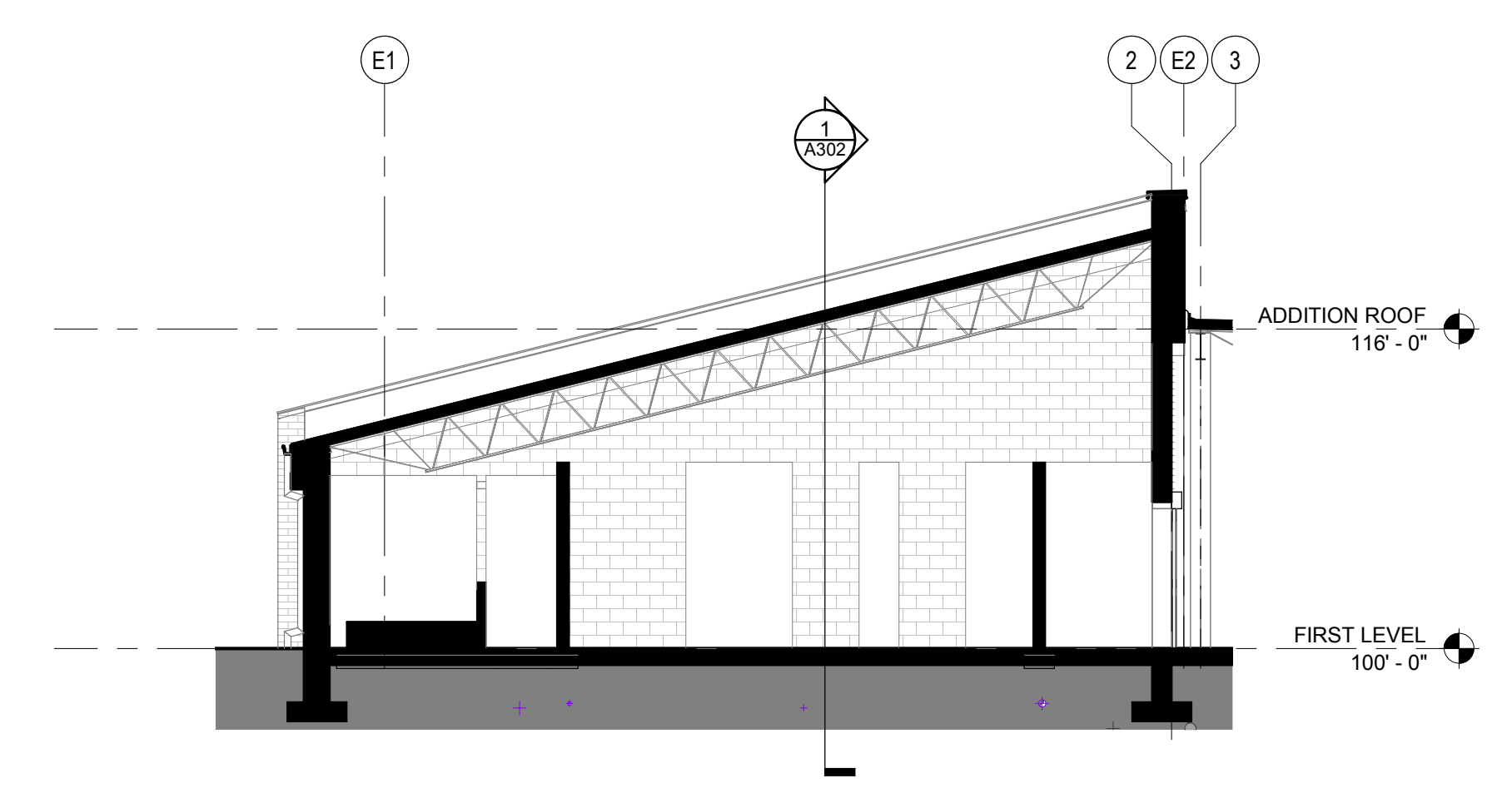
Project Number 2017.01279

BUILDING SECTIONS

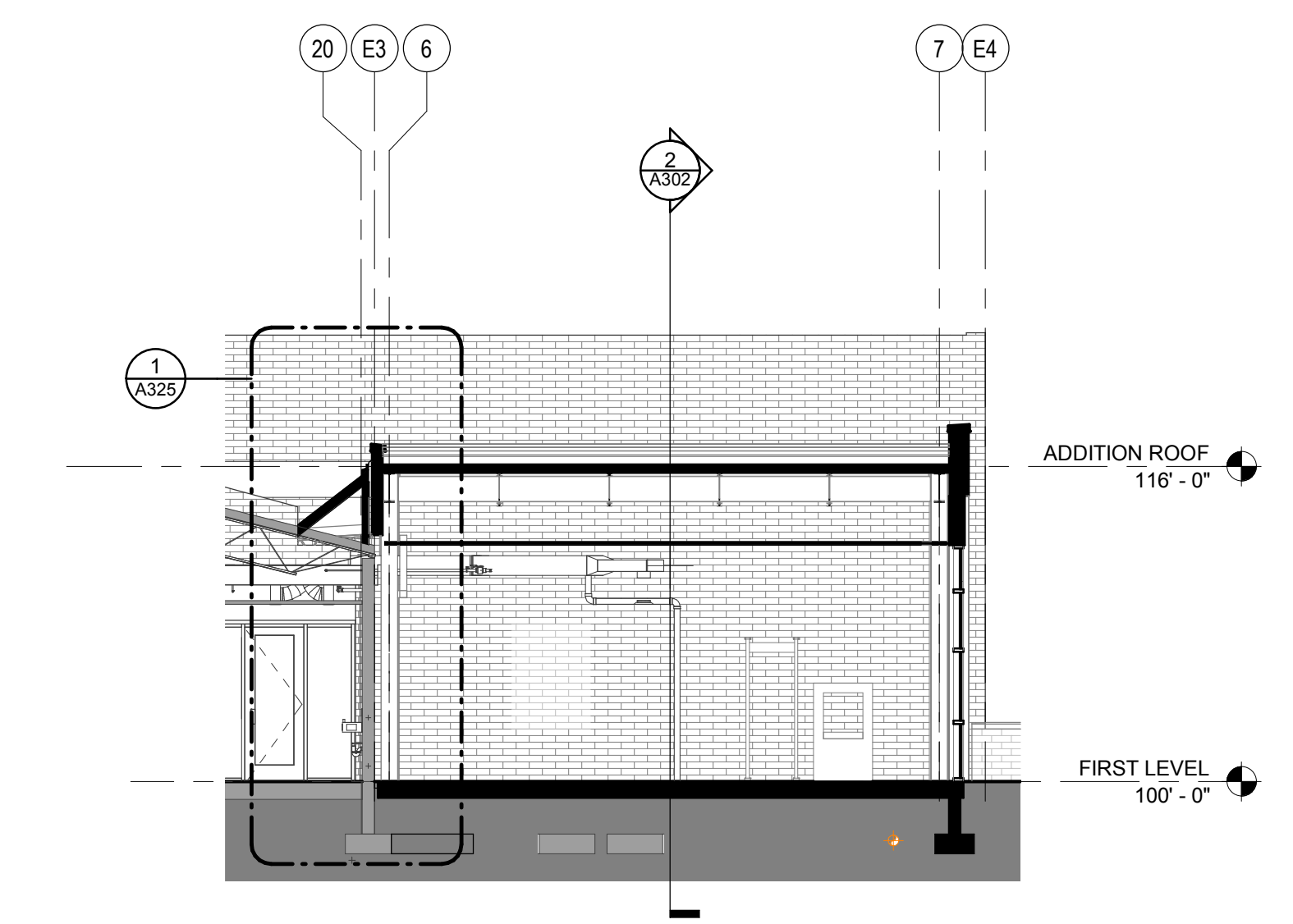
A302



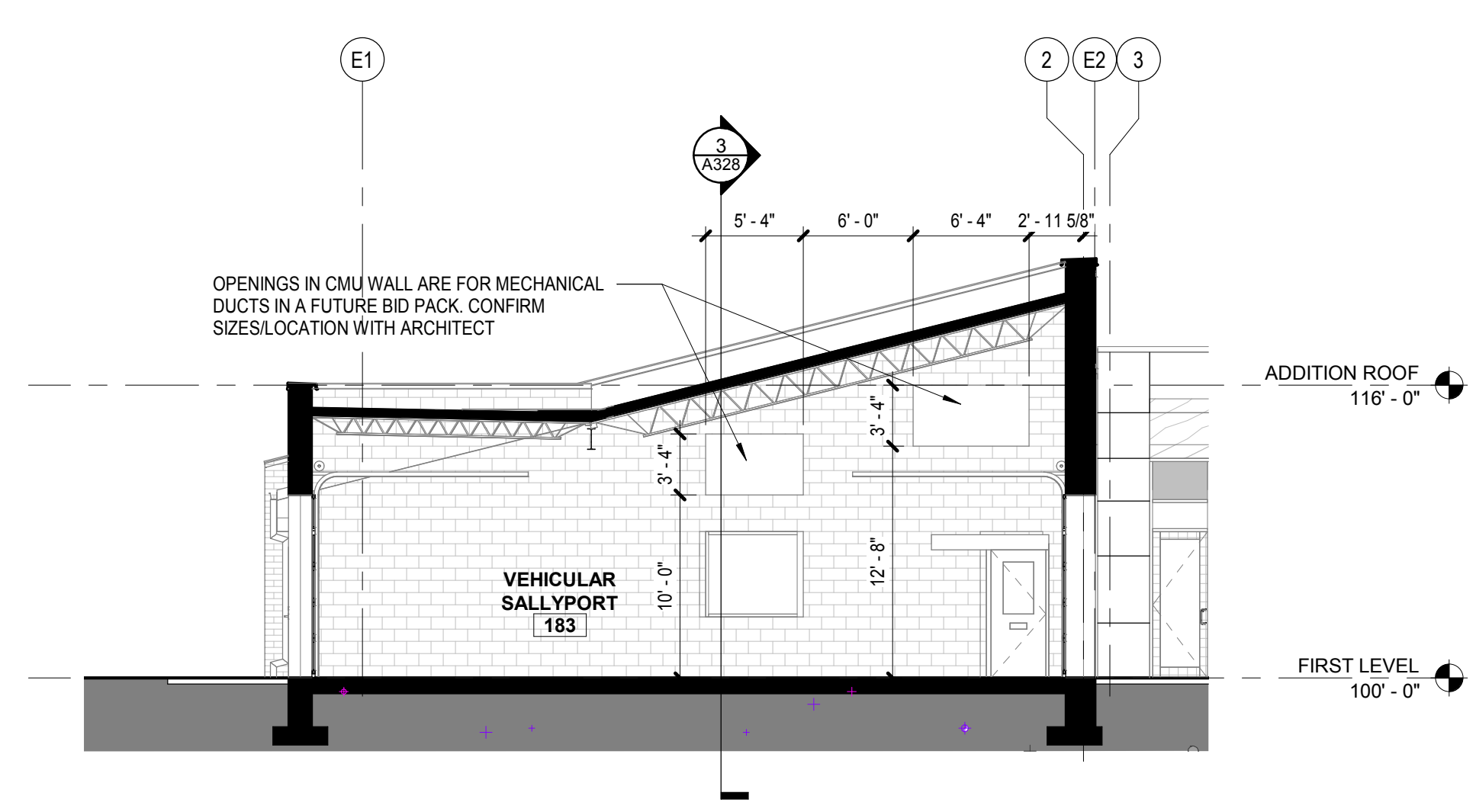
7 WALL SECTION
1/8" = 1'-0"



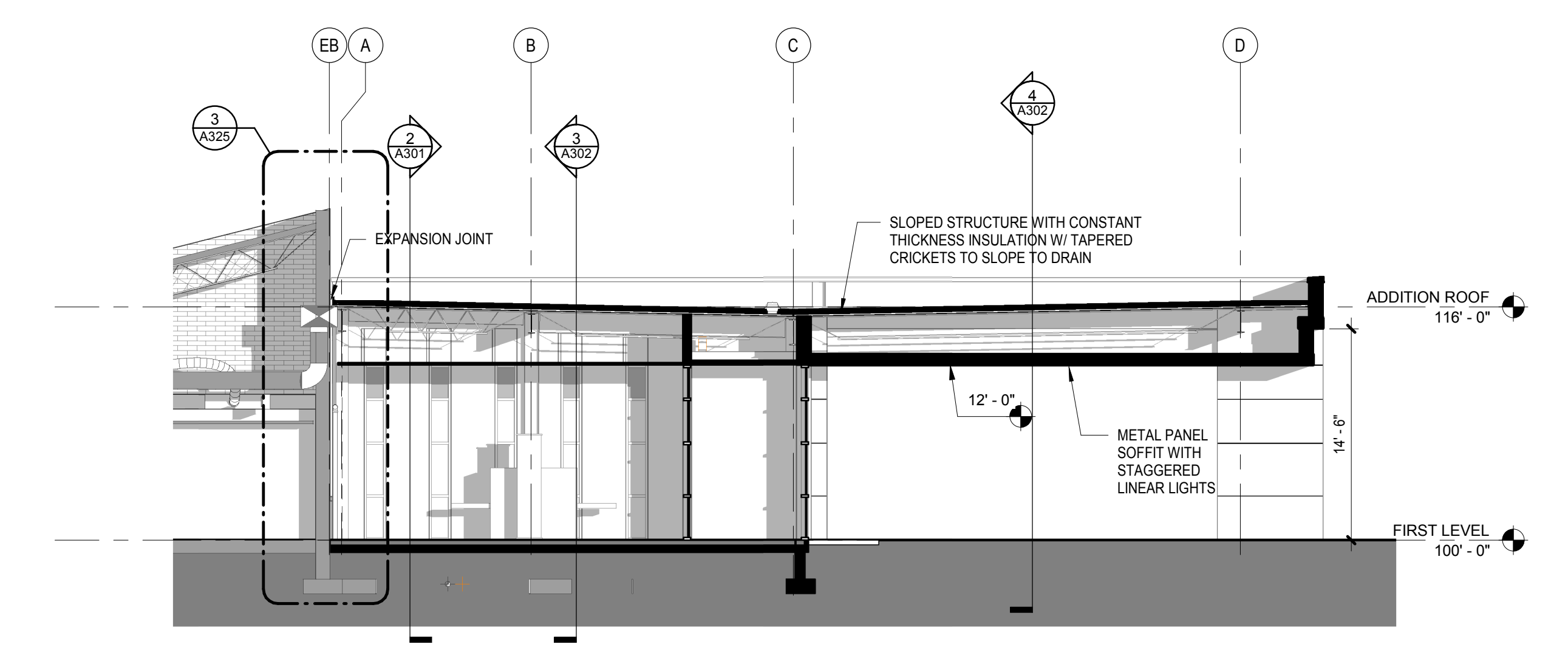
6 BUILDING SECTION
1/8" = 1'-0"



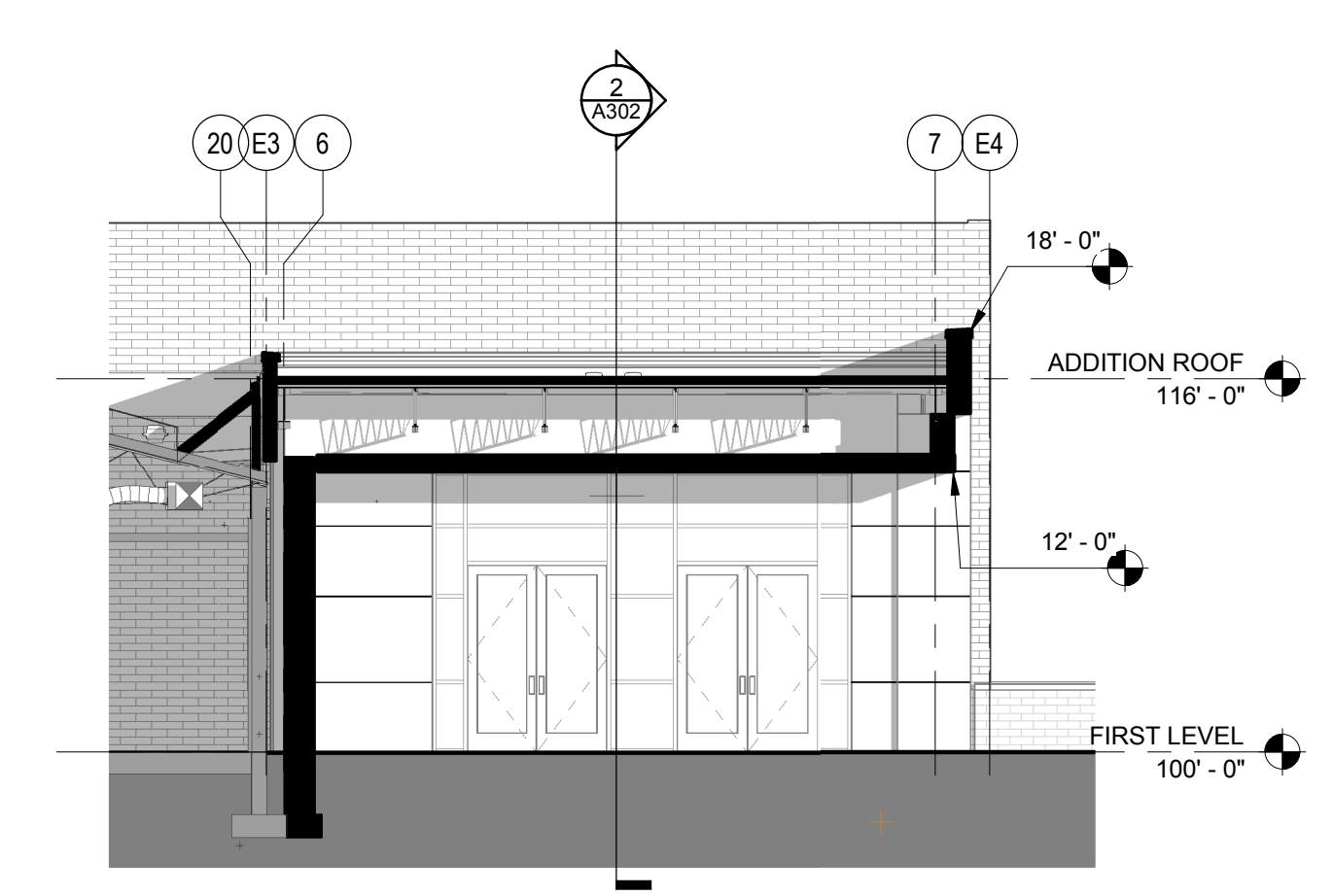
3 BUILDING SECTION
1/8" = 1'-0"



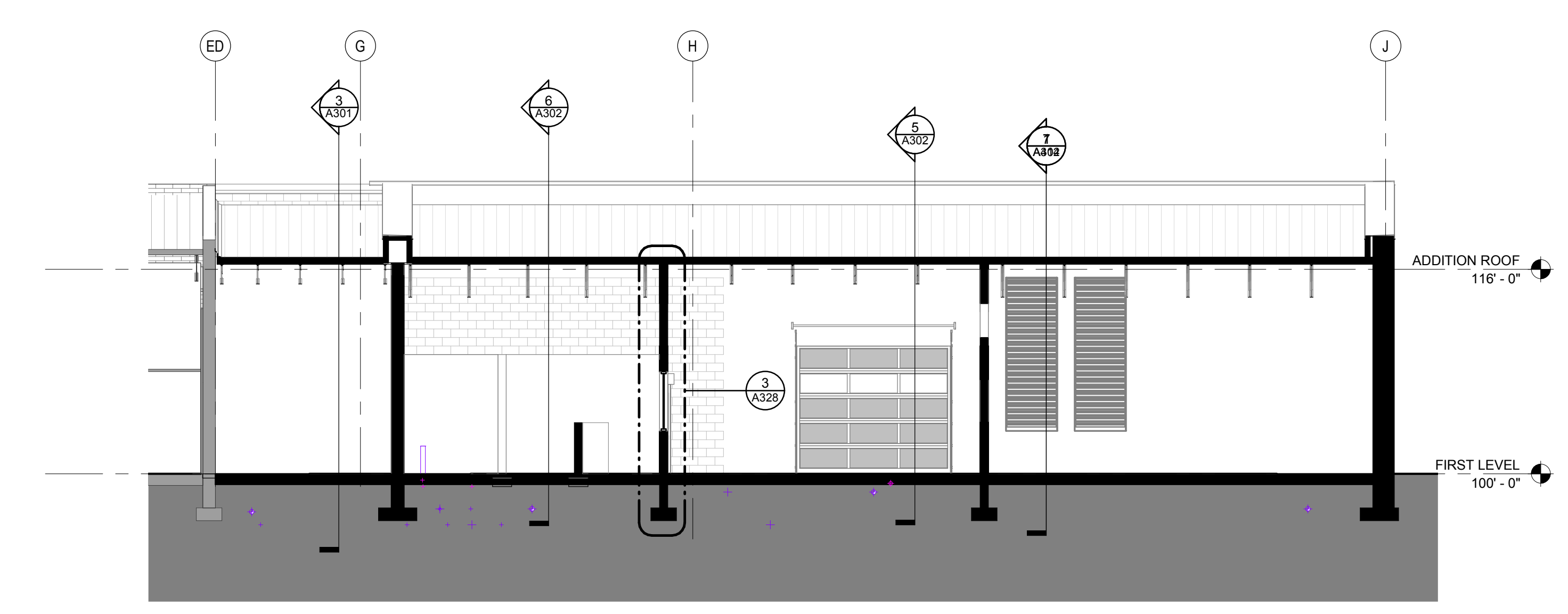
5 BUILDING SECTION
1/8" = 1'-0"



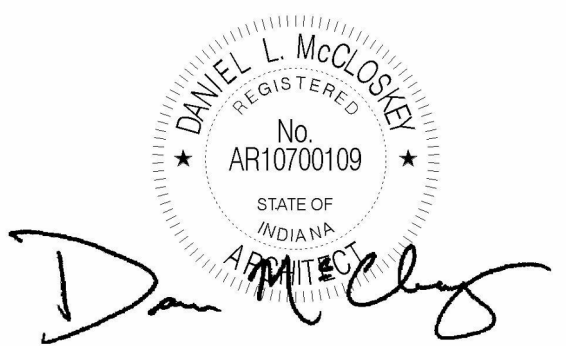
2 BUILDING SECTION
1/8" = 1'-0"



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



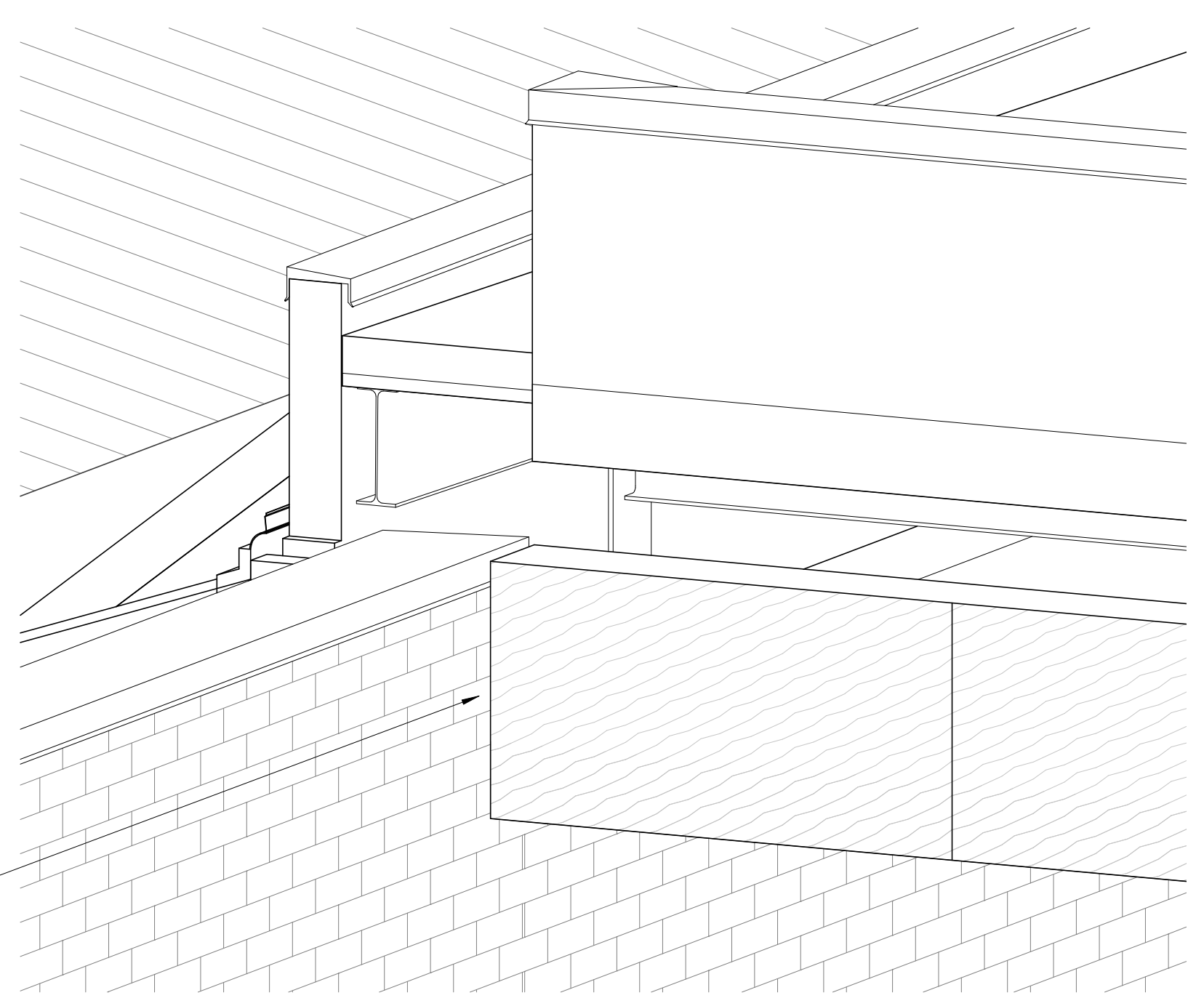
1 BUILDING SECTION
1/8" = 1'-0"



CERTIFIED BY
Daniel L. McCloskey

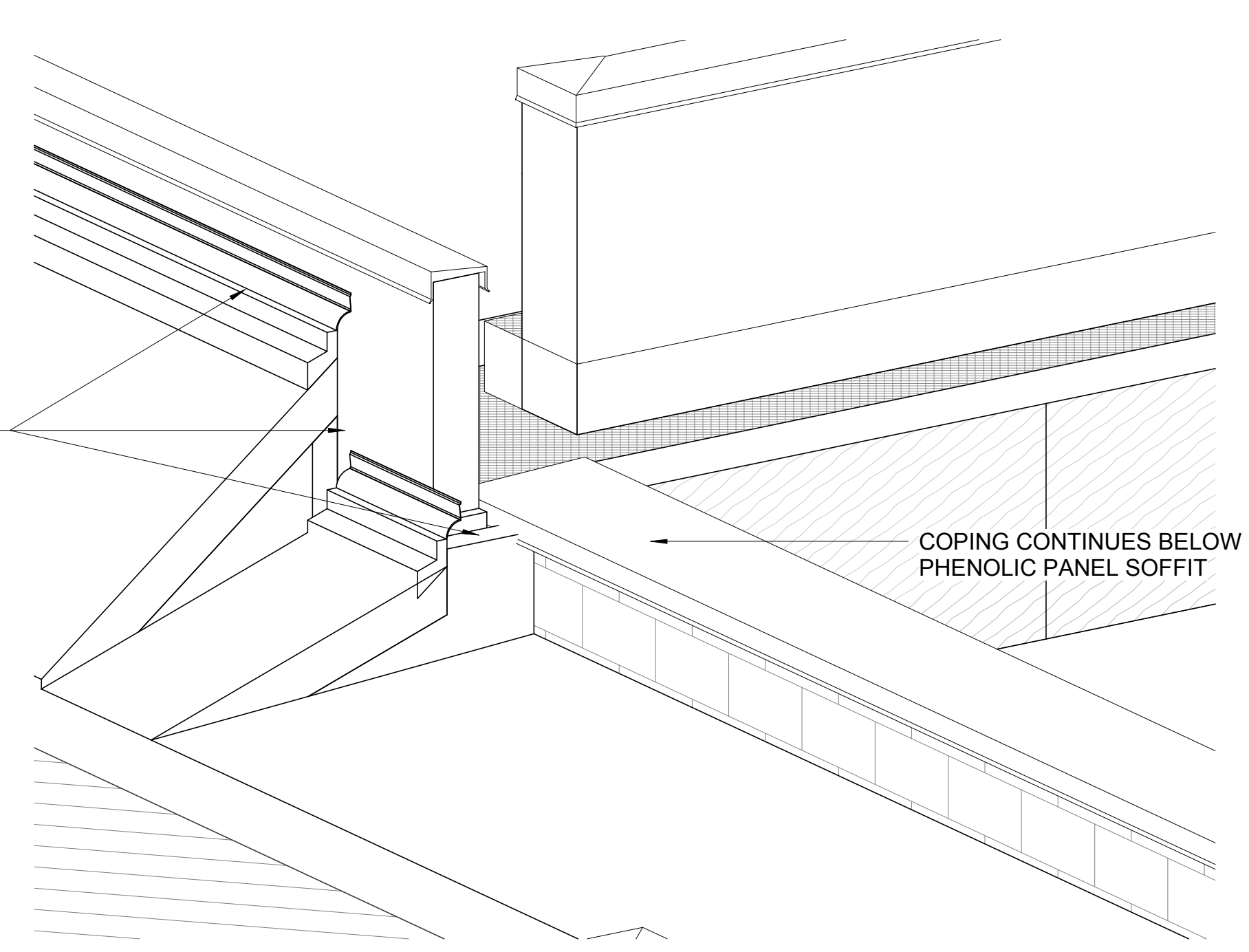
ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



EXPANSION MATERIAL BETWEEN FASCIA AND MASONRY WALL

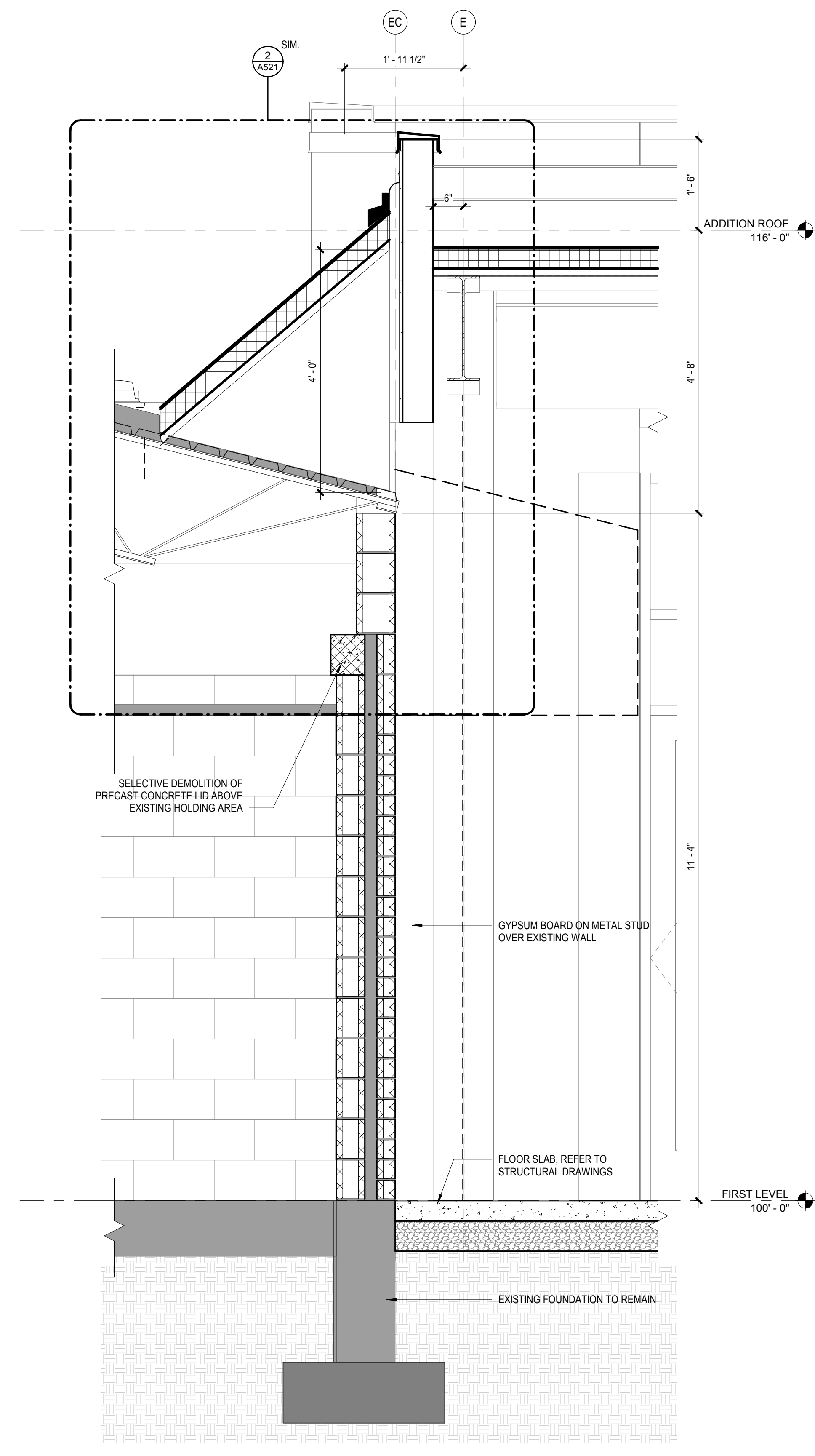
5 AXON - DOUBLE WALL UNDER ENTRY CANOPY



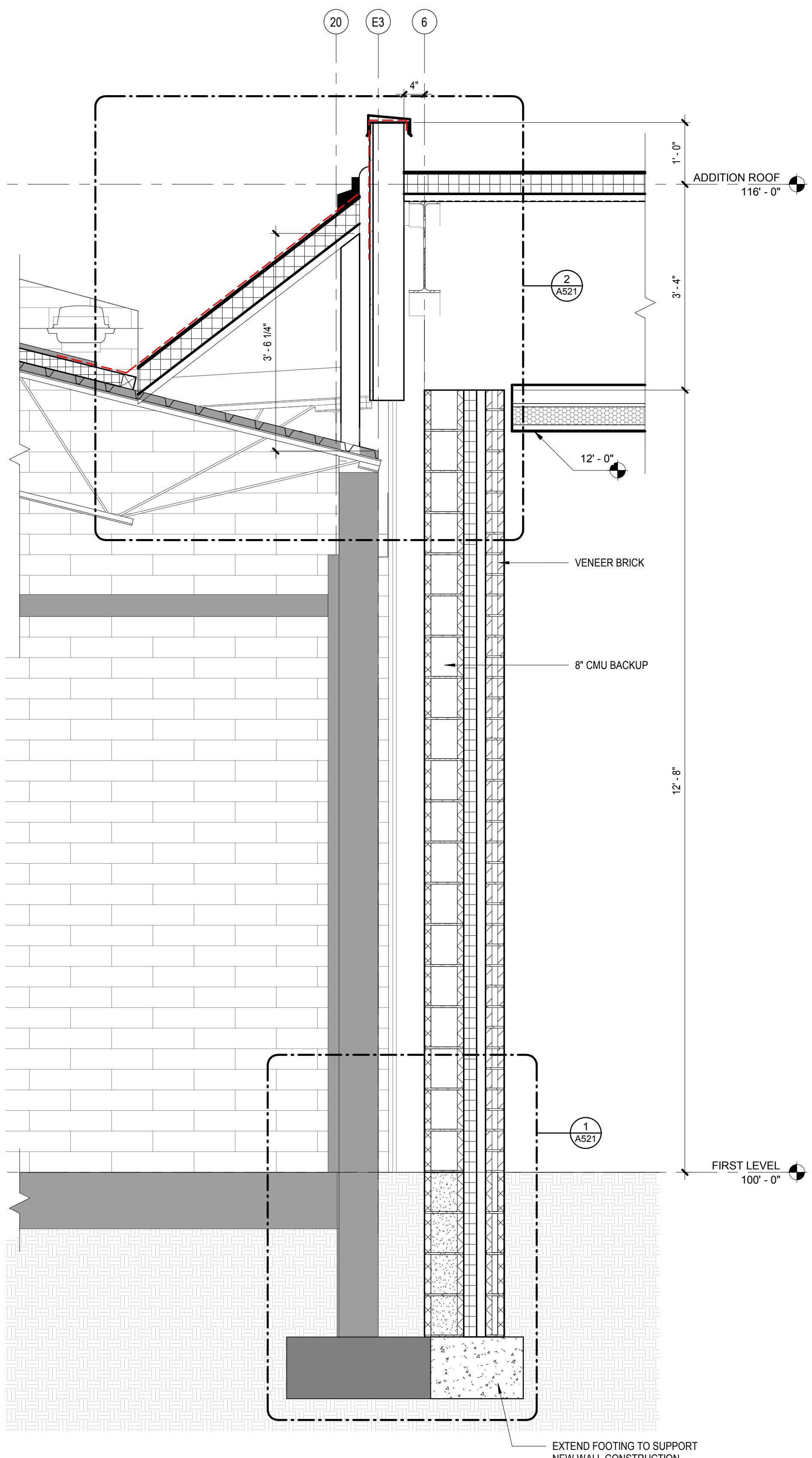
EXPANSION MATERIAL BETWEEN EXISTING AND NEW STRUCTURE

COPING CONTINUES BELOW PHENOLIC PANEL SOFFIT

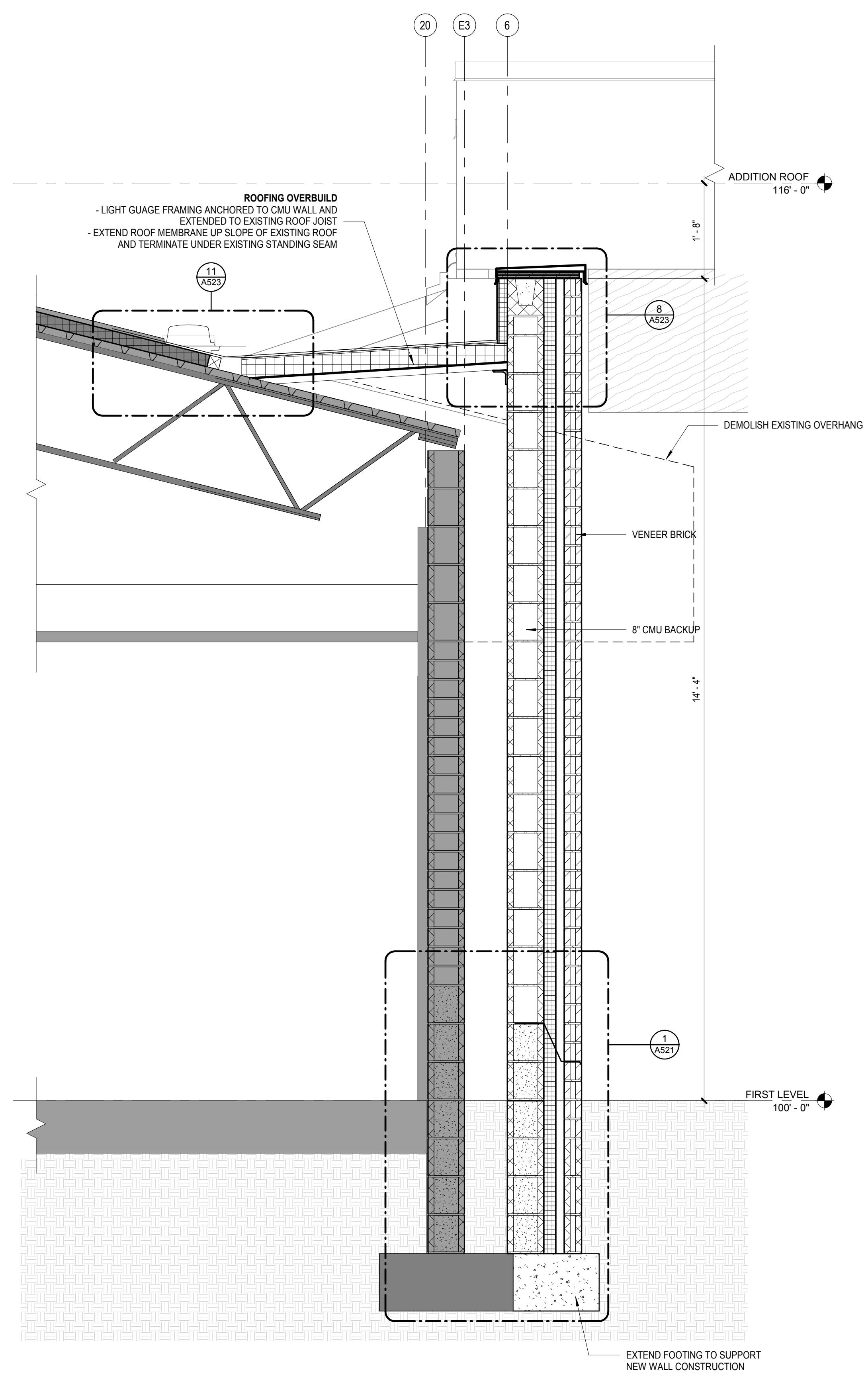
4 AXON - DOUBLE WALL OVER CANOPY



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



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

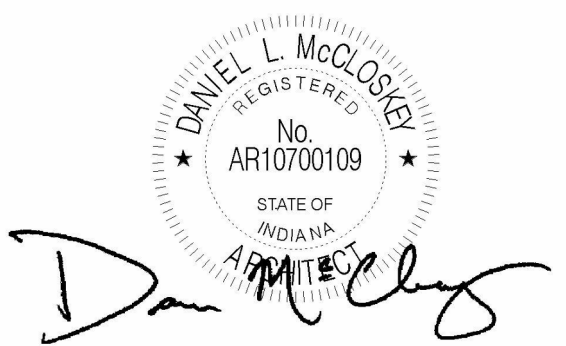


1 WALL SECTION
3/4" = 1'-0"



PORTER COUNTY ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



CERTIFIED BY
Daniel L. McCloskey

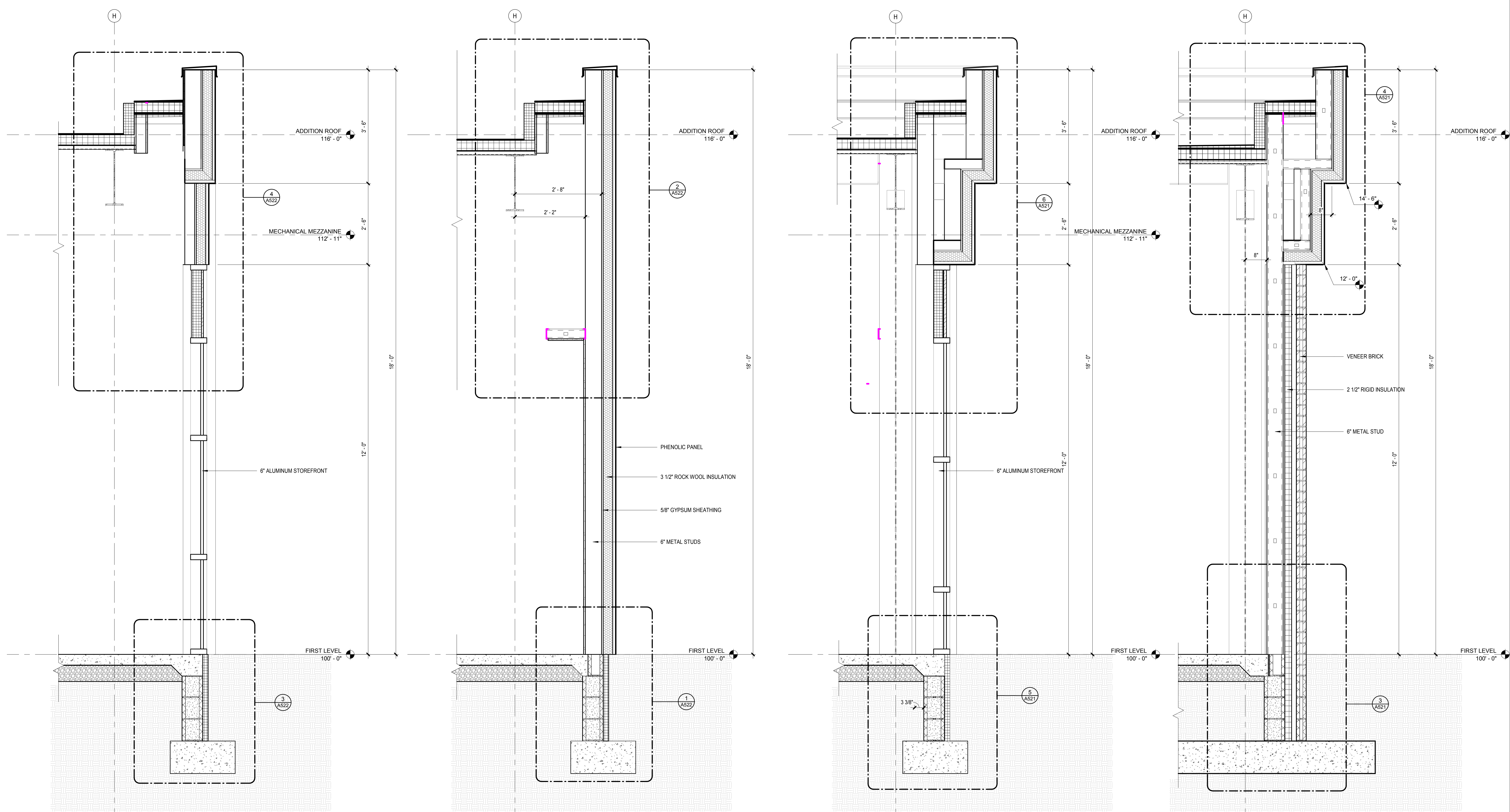
ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

WALL SECTIONS

A322



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

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

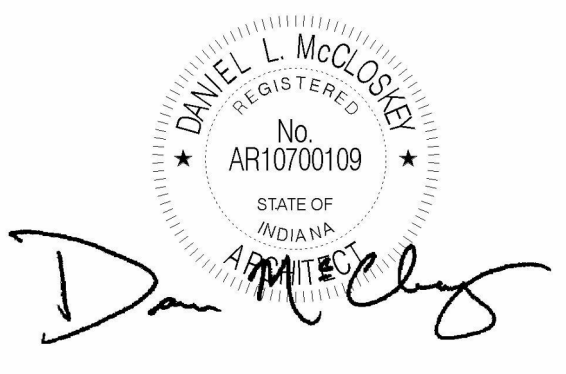
2 WALL SECTION
3/4" = 1'-0"

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



PORTER COUNTY ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



CERTIFIED BY
Daniel L. McCloskey

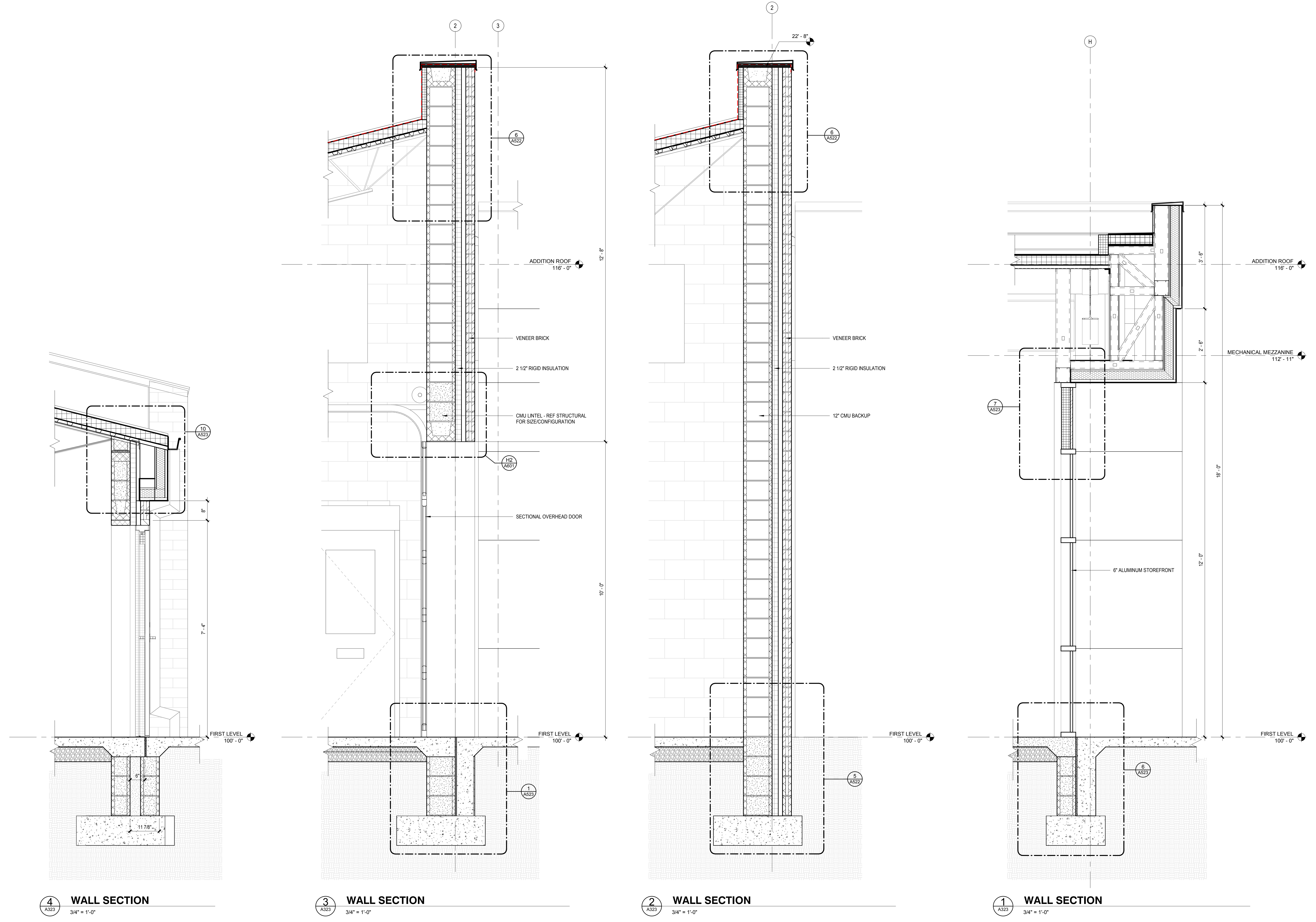
ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

WALL SECTIONS

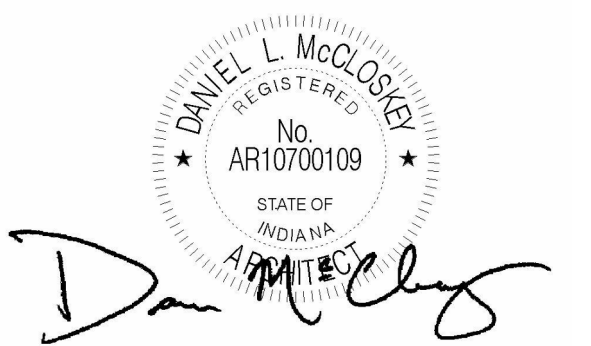
A323





PORTER COUNTY ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



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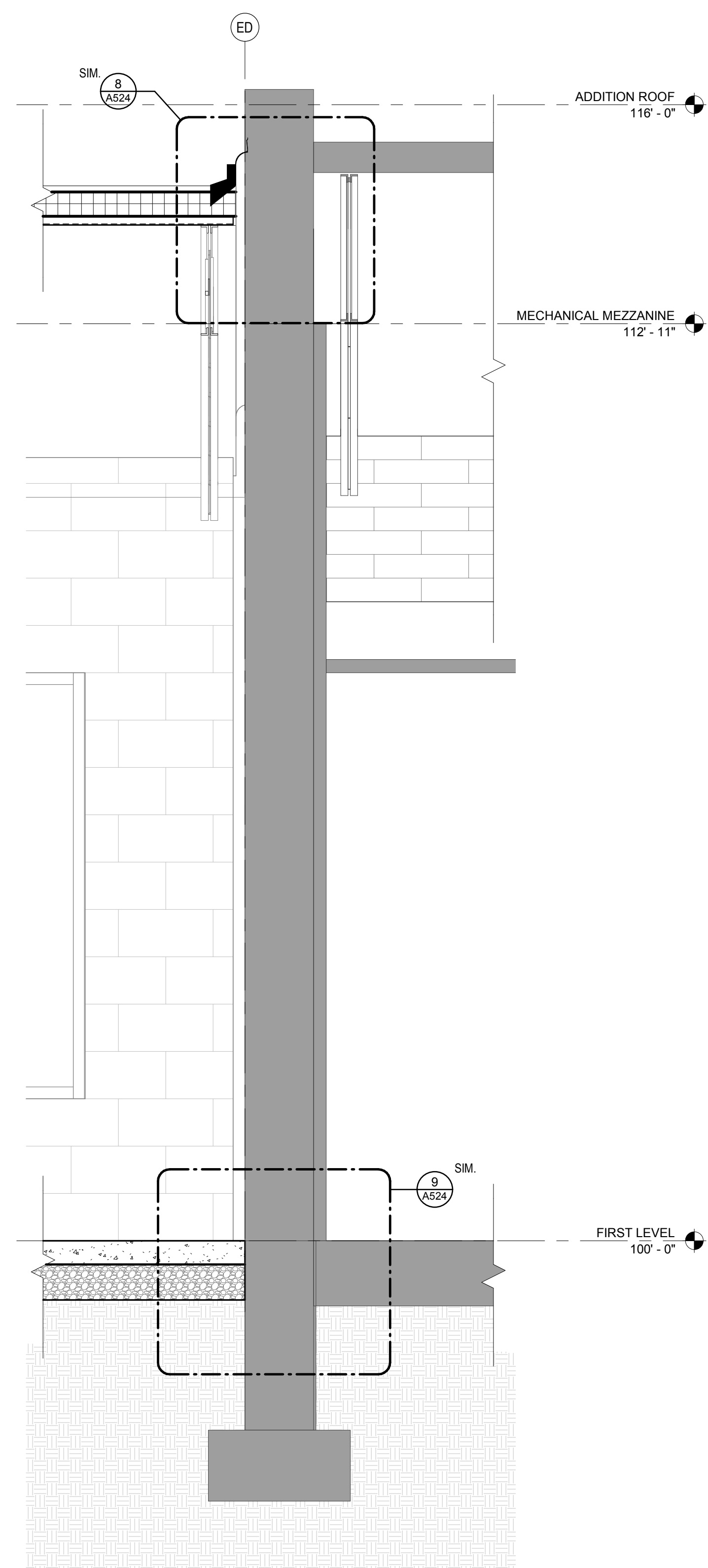
ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

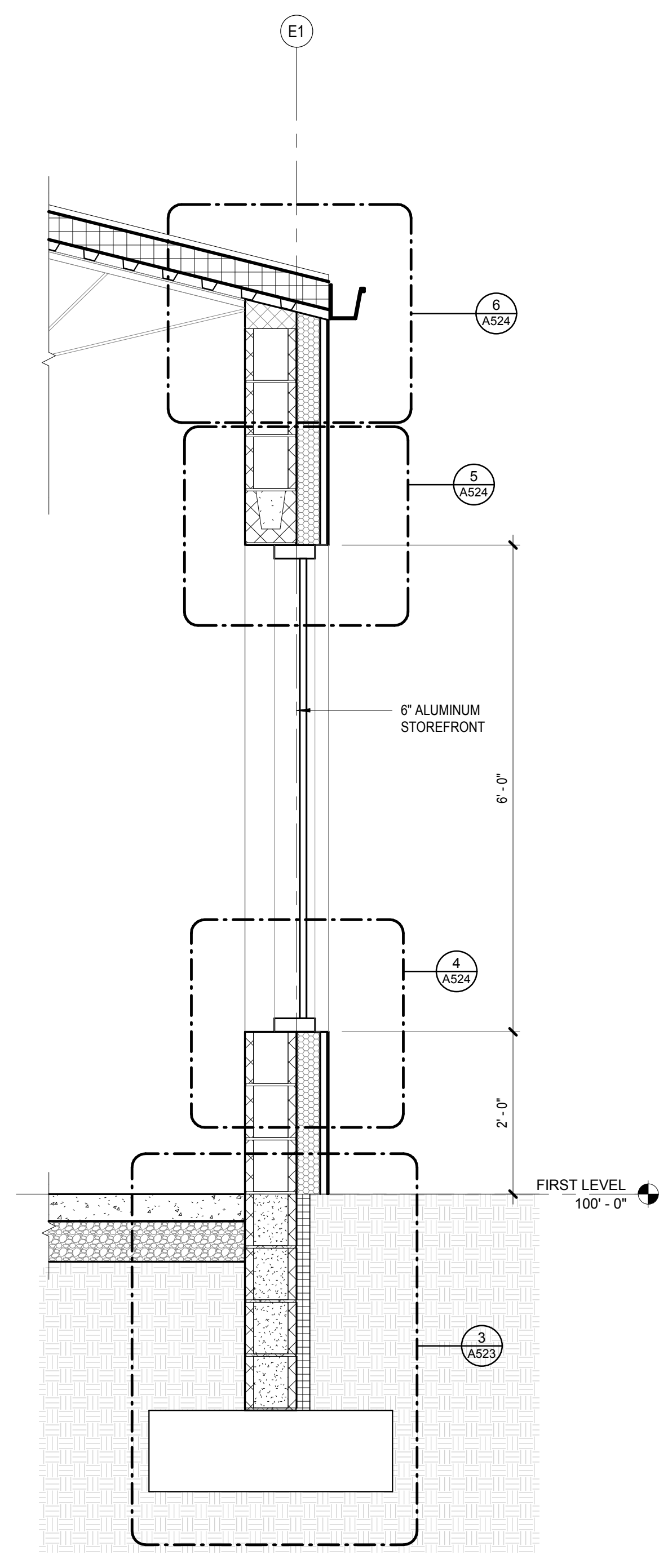
Project Number 2017.01279

WALL SECTIONS

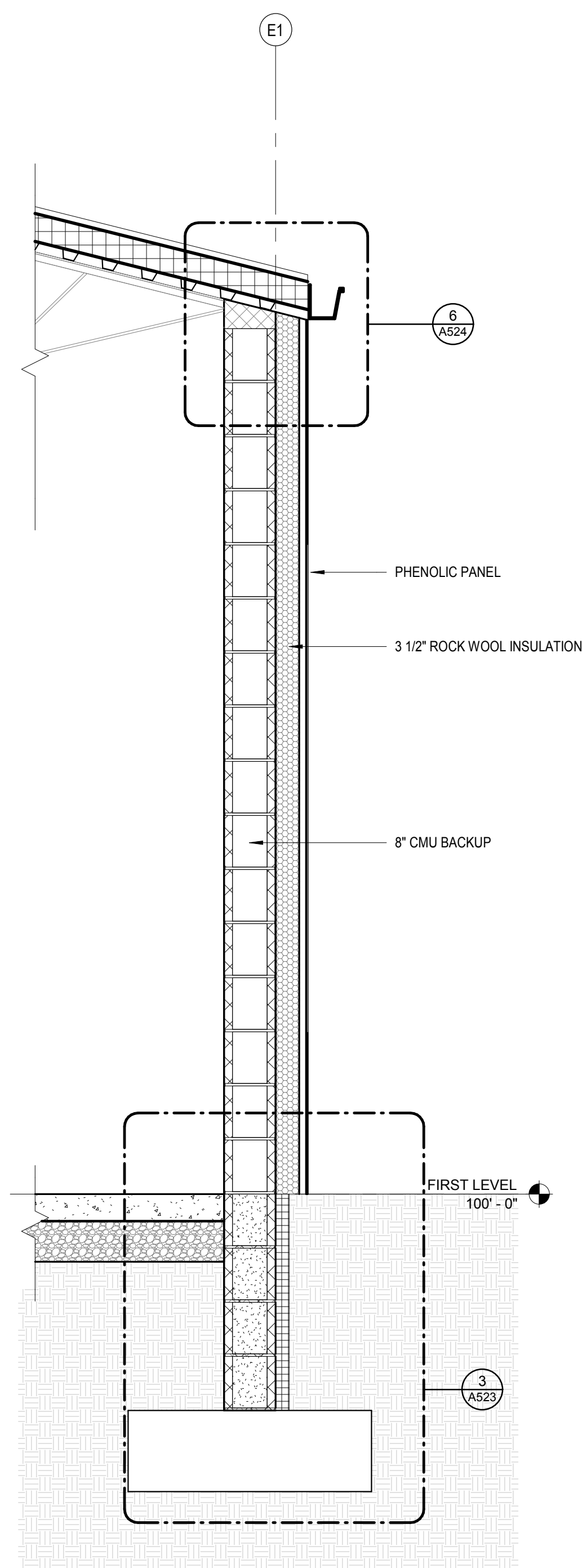
A324



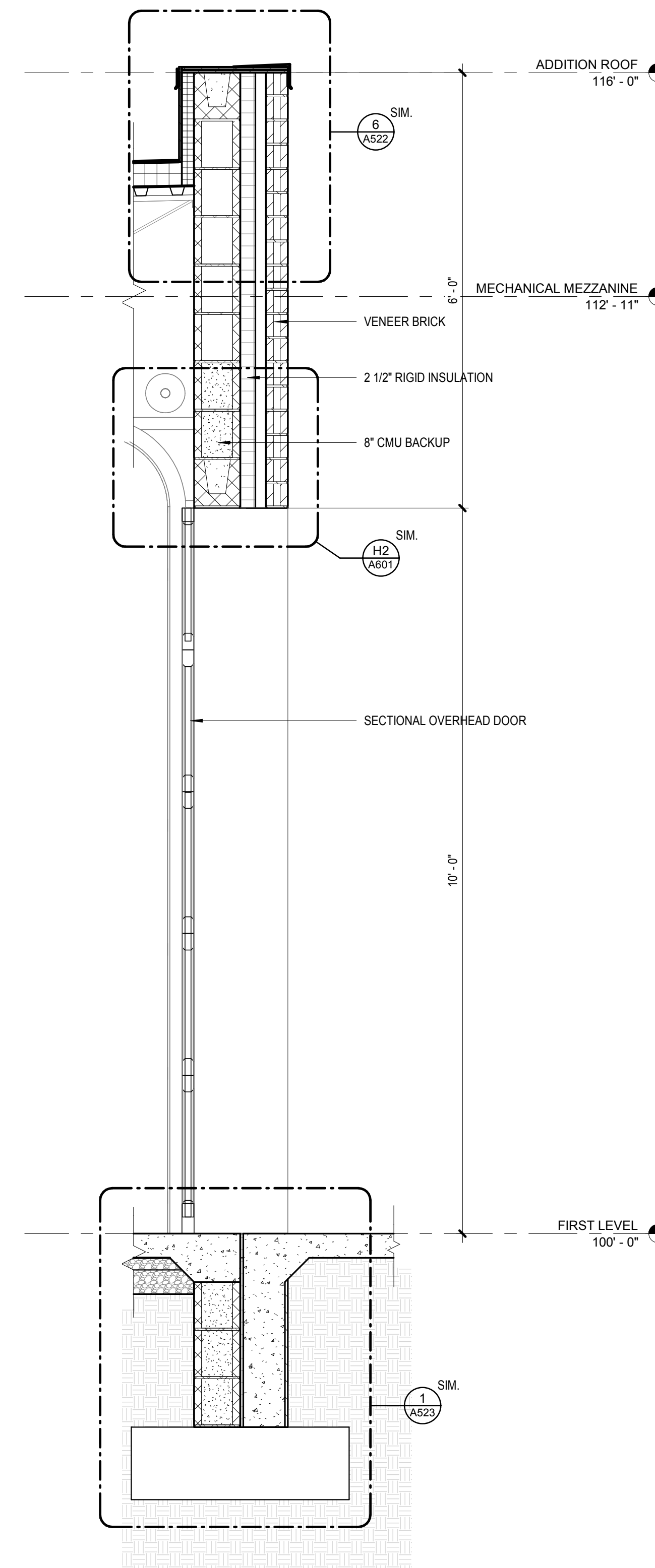
5 WALL SECTION
3/4" = 1'-0"



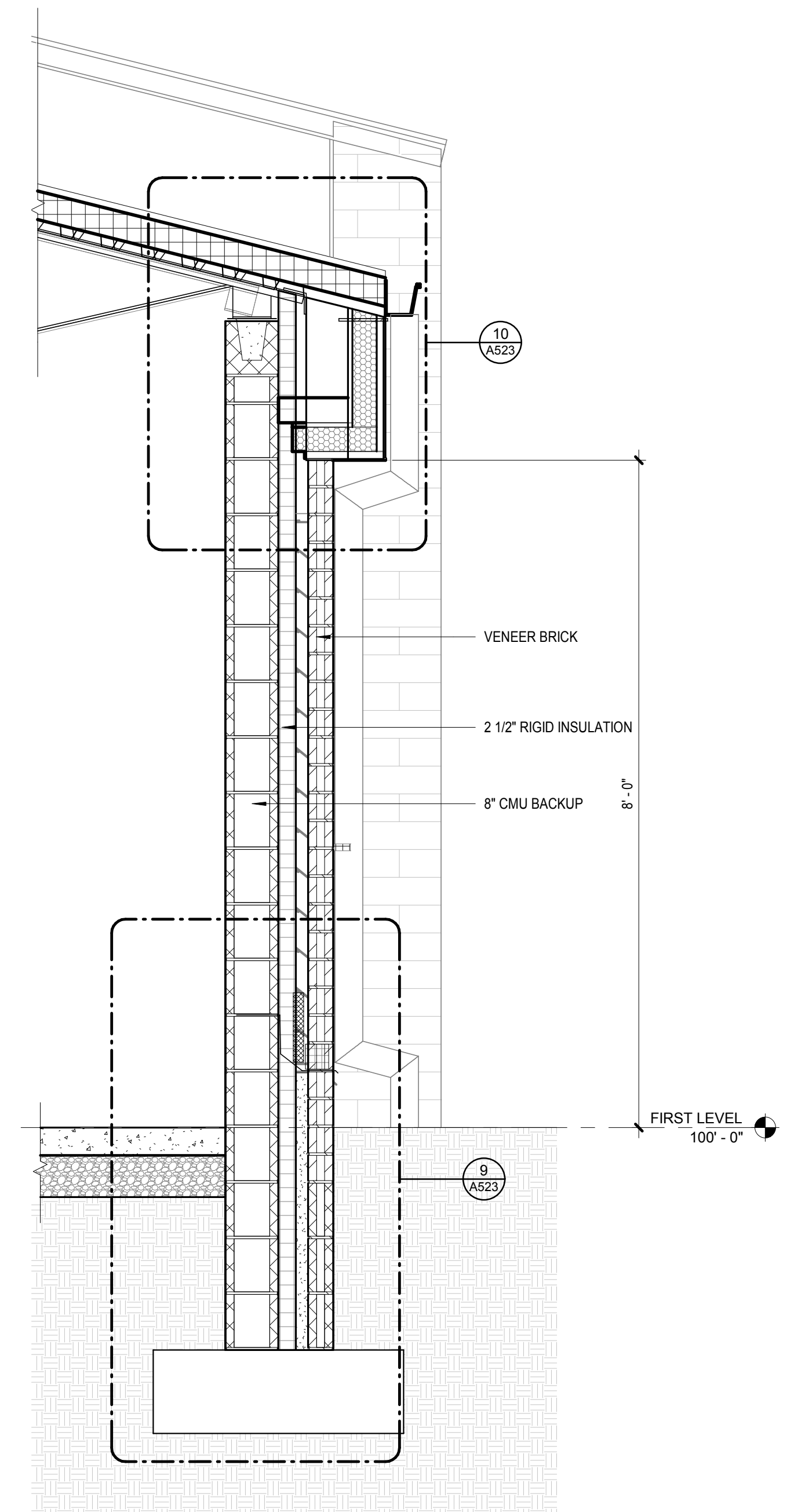
4 WALL SECTION
3/4" = 1'-0"



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



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

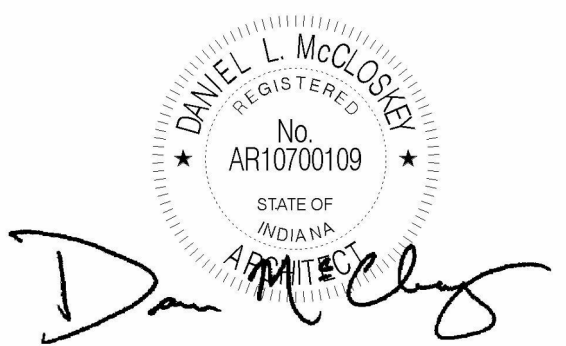


1 WALL SECTION
3/4" = 1'-0"



PORTER COUNTY ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



CERTIFIED BY
Daniel L. McCloskey

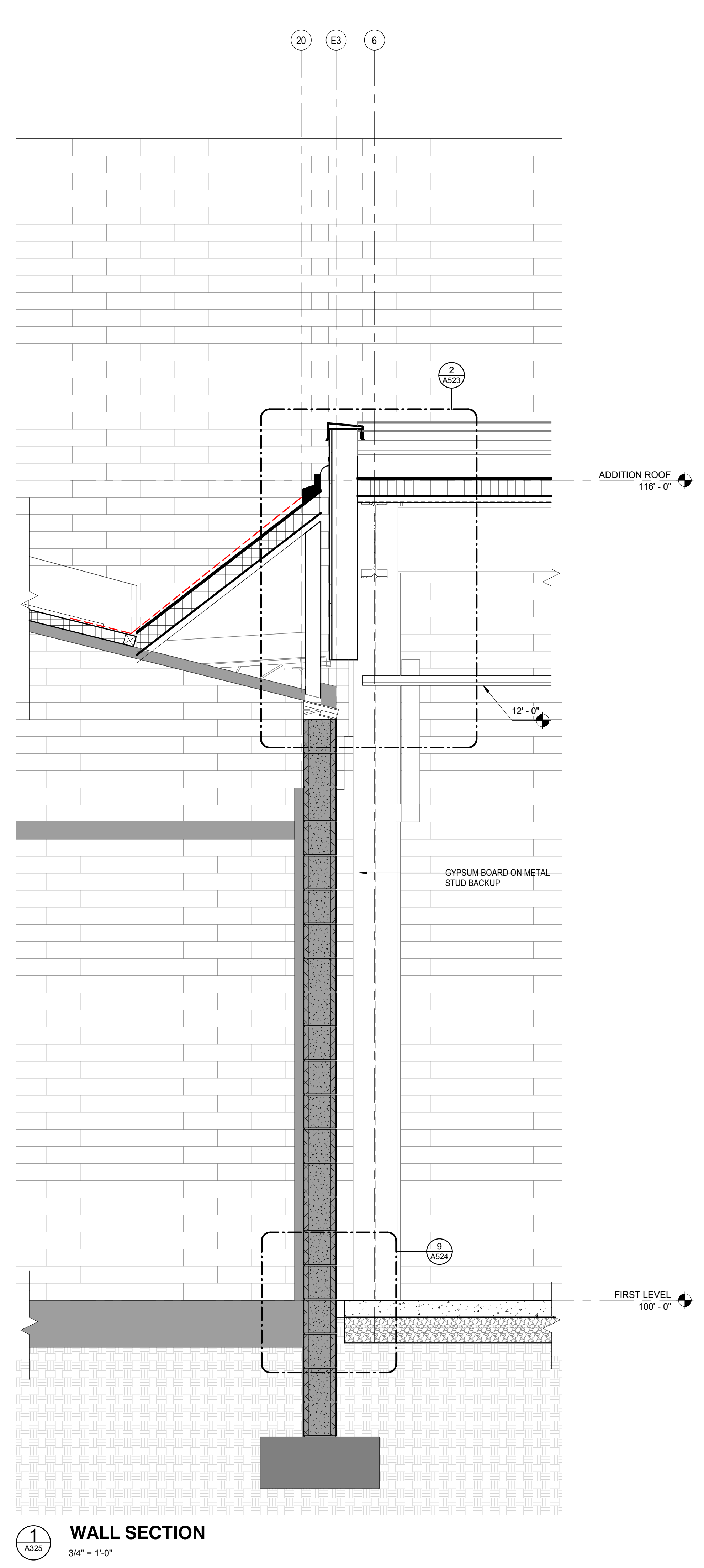
ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

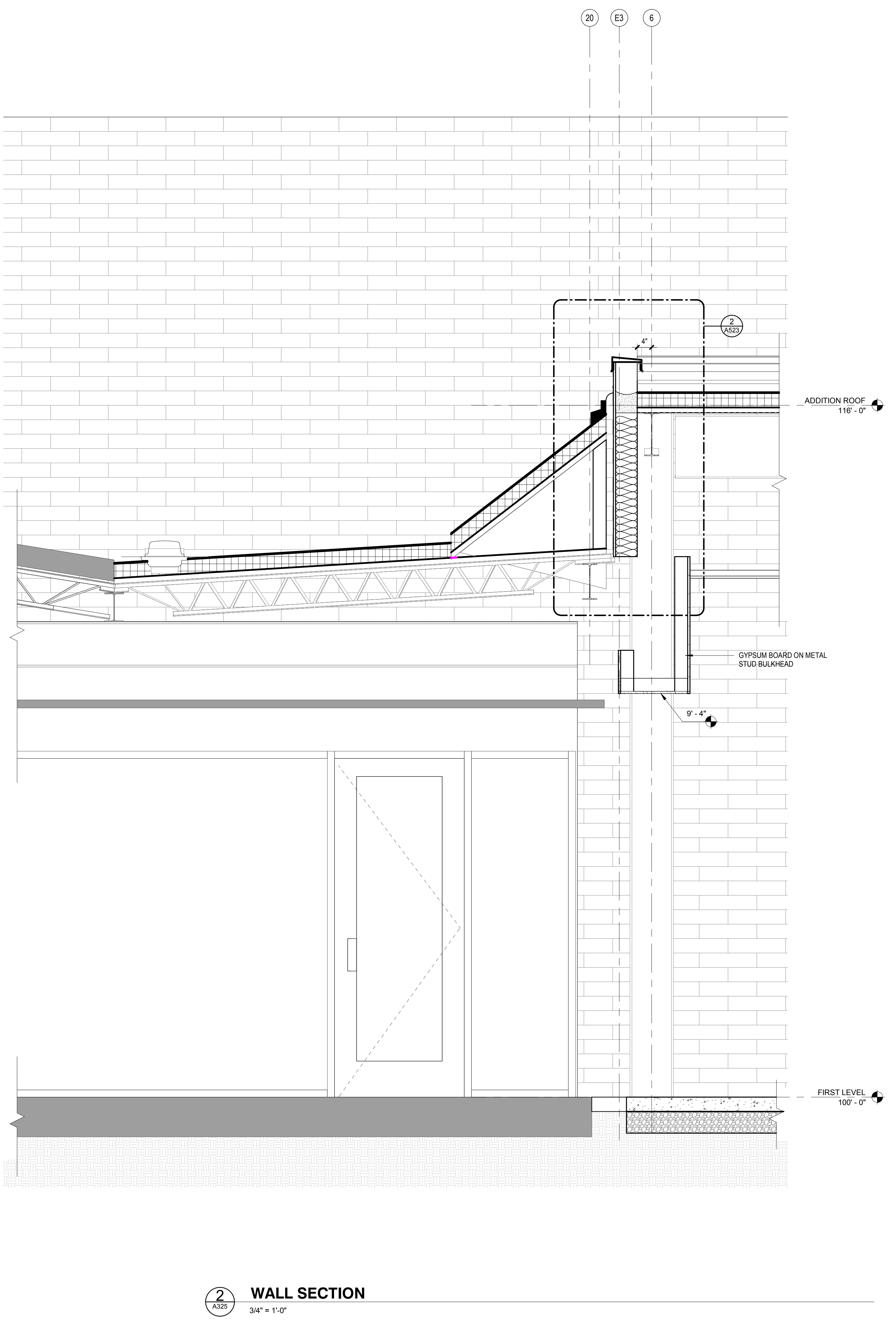
Project Number 2017.01279

WALL SECTIONS

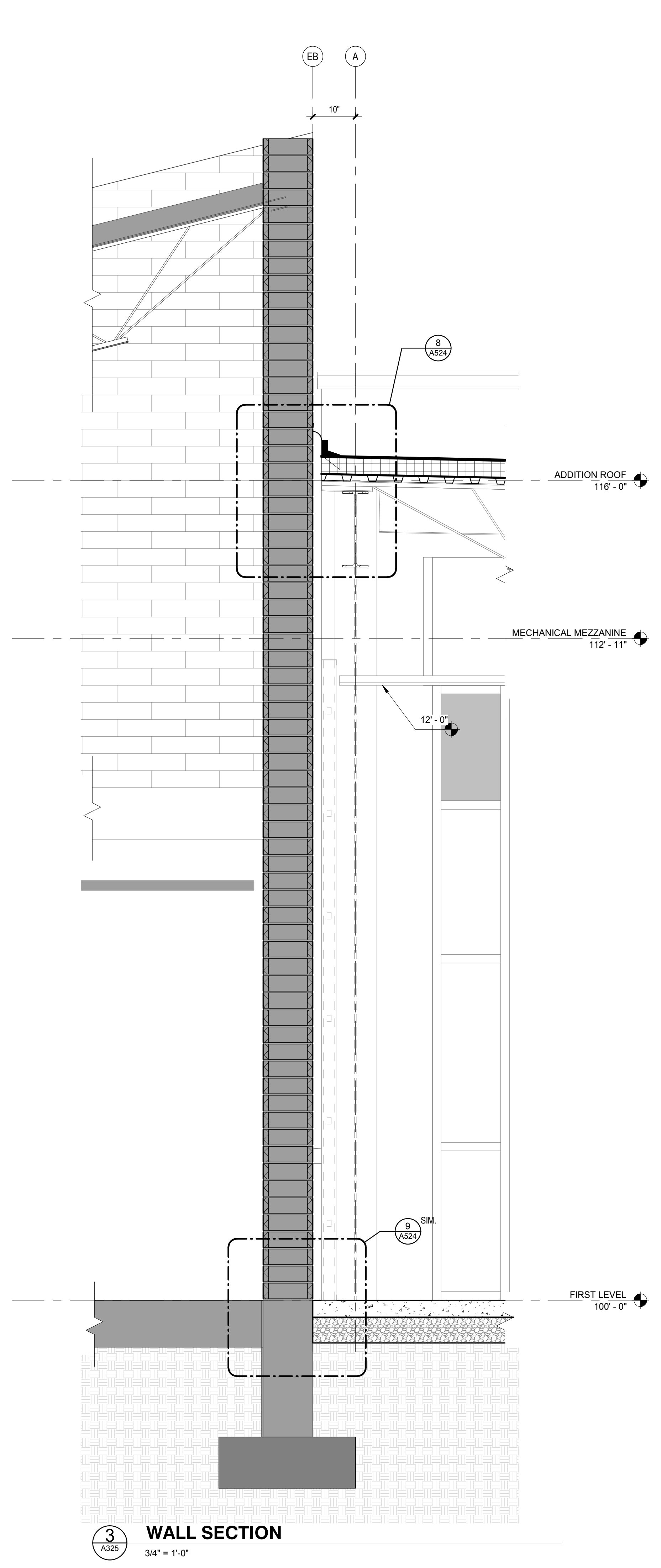
A325



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



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

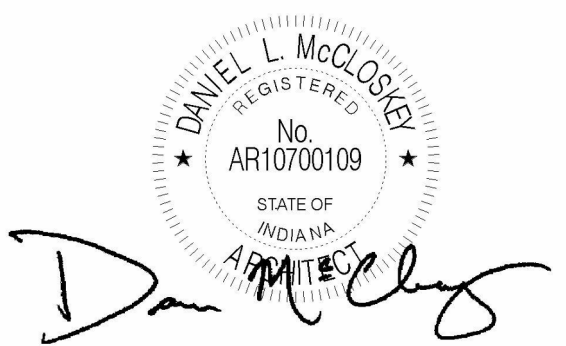


3 WALL SECTION
3/4" = 1'-0"



PORTER COUNTY ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



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Daniel L. McCloskey

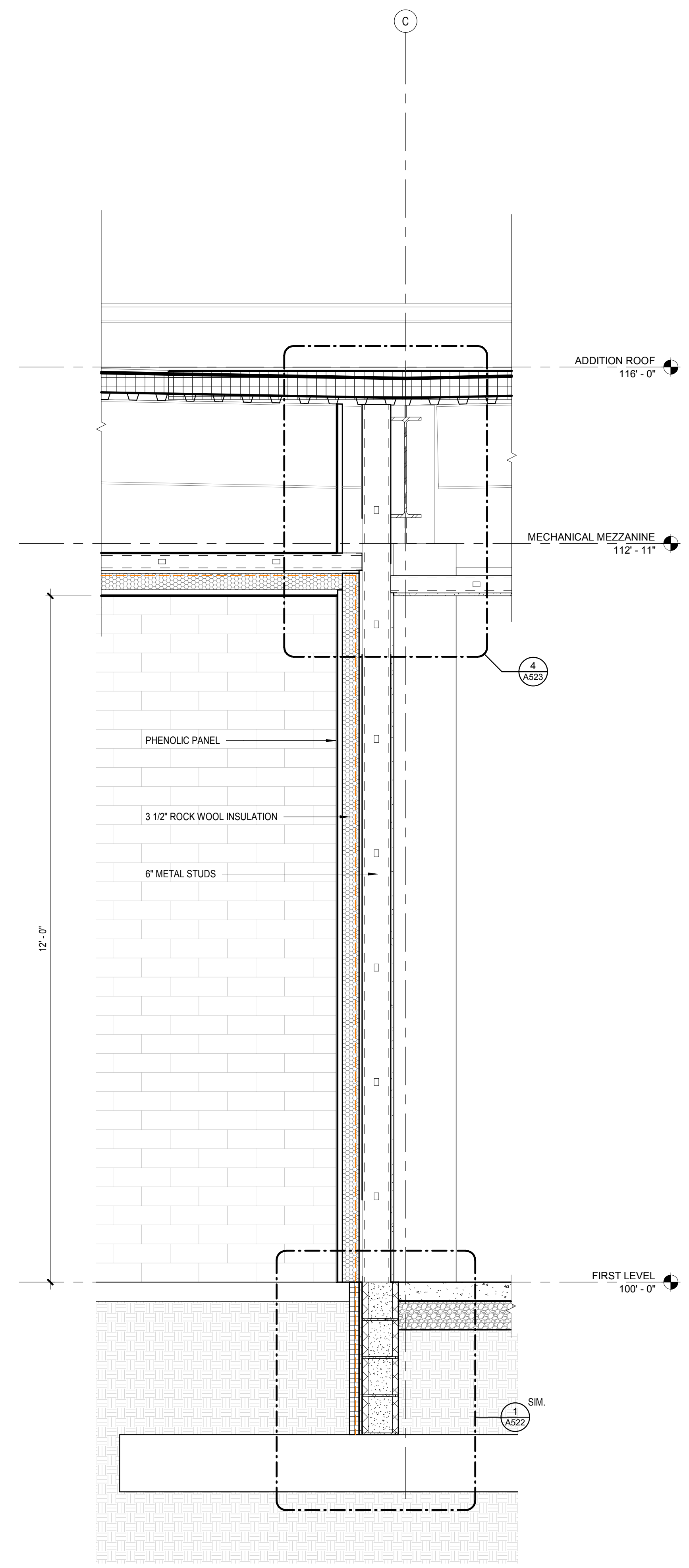
ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

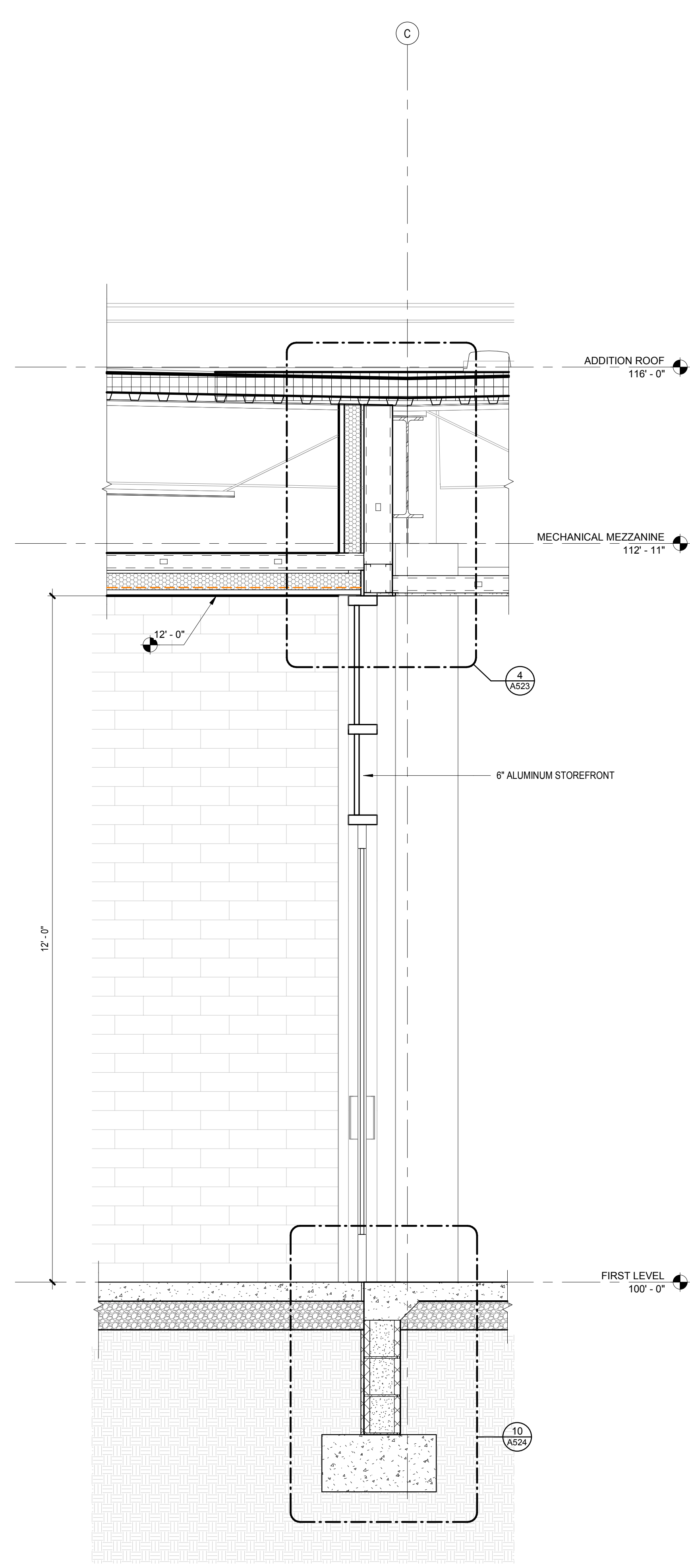
Project Number 2017.01279

WALL SECTIONS

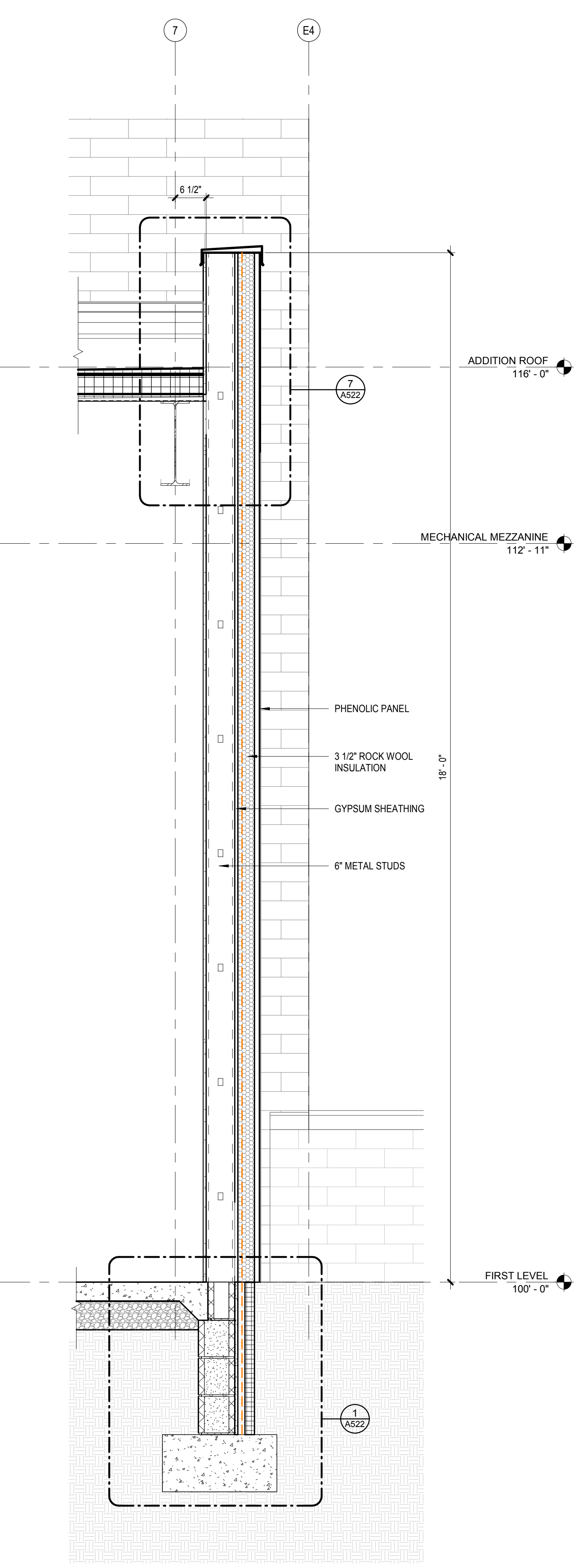
A326



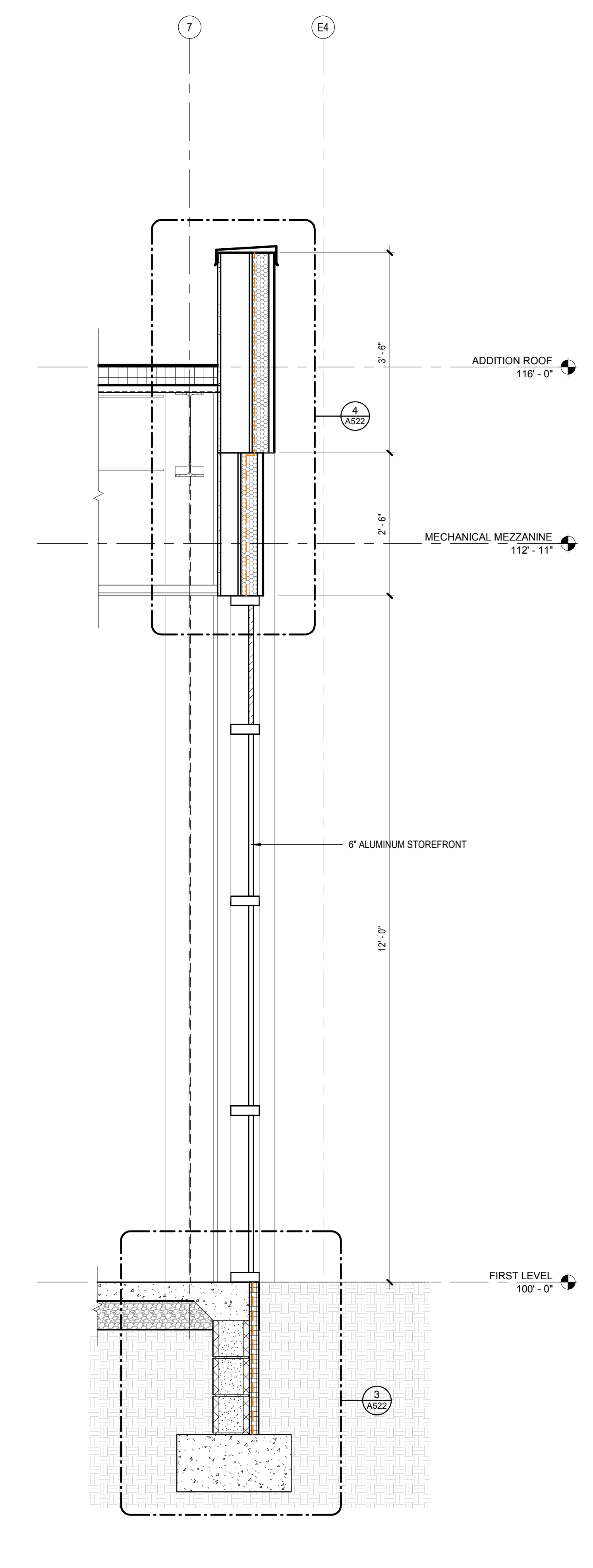
4
A326
WALL SECTION
3/4" = 1'-0"



3
A326
WALL SECTION
3/4" = 1'-0"



2
A326
WALL SECTION
3/4" = 1'-0"

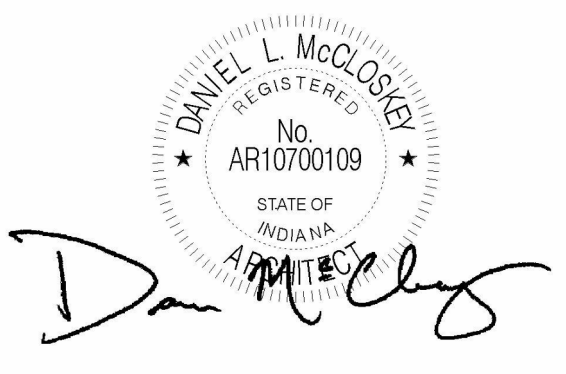


1
A326
WALL SECTION
3/4" = 1'-0"



PORTER COUNTY ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



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Daniel L. McCloskey

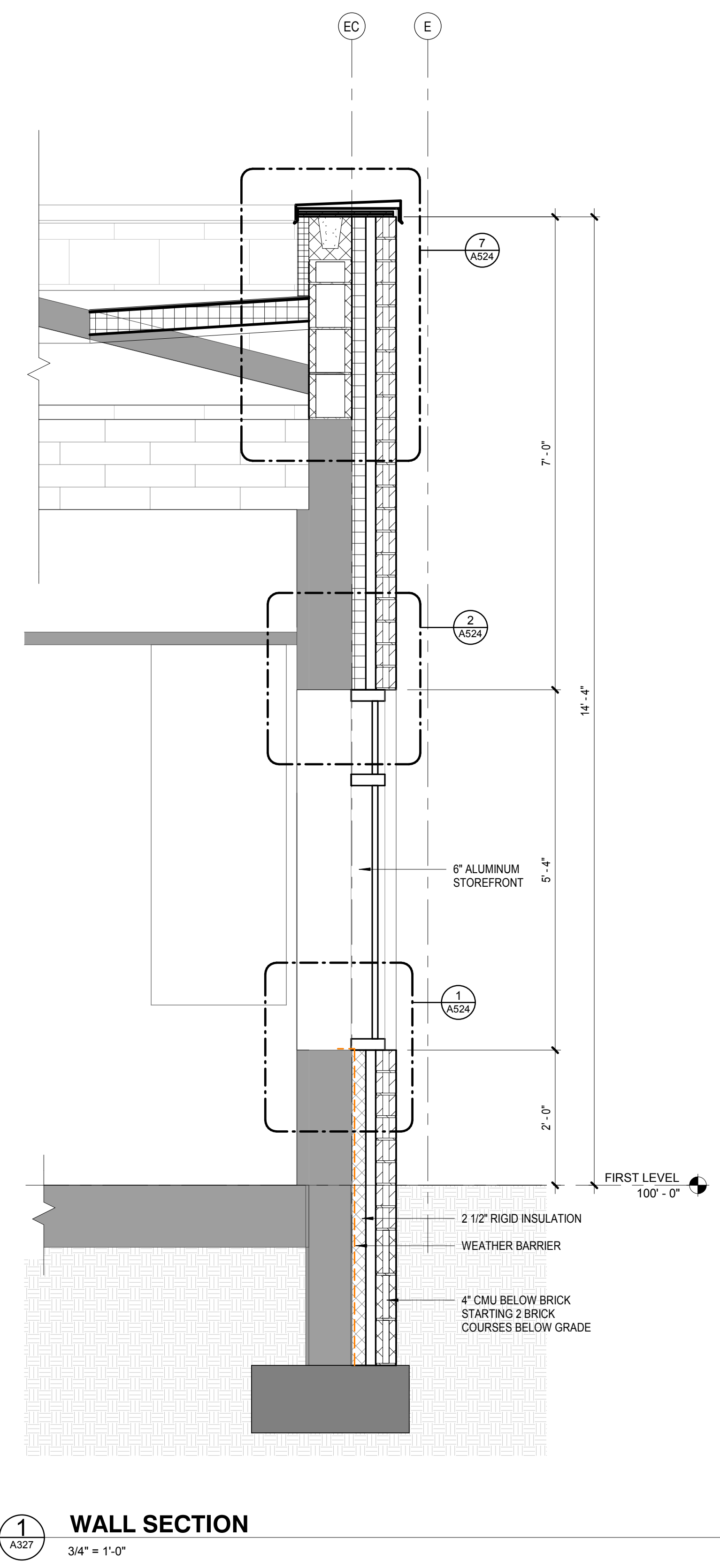
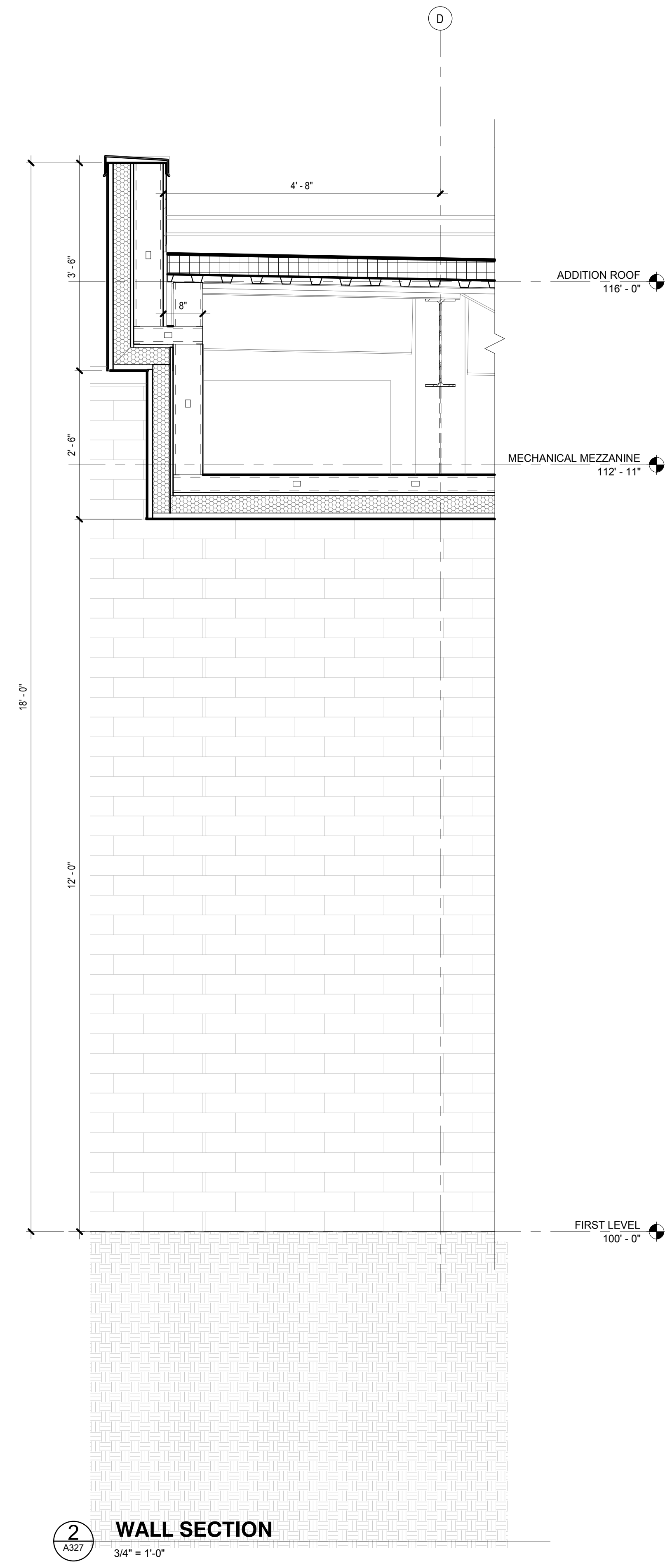
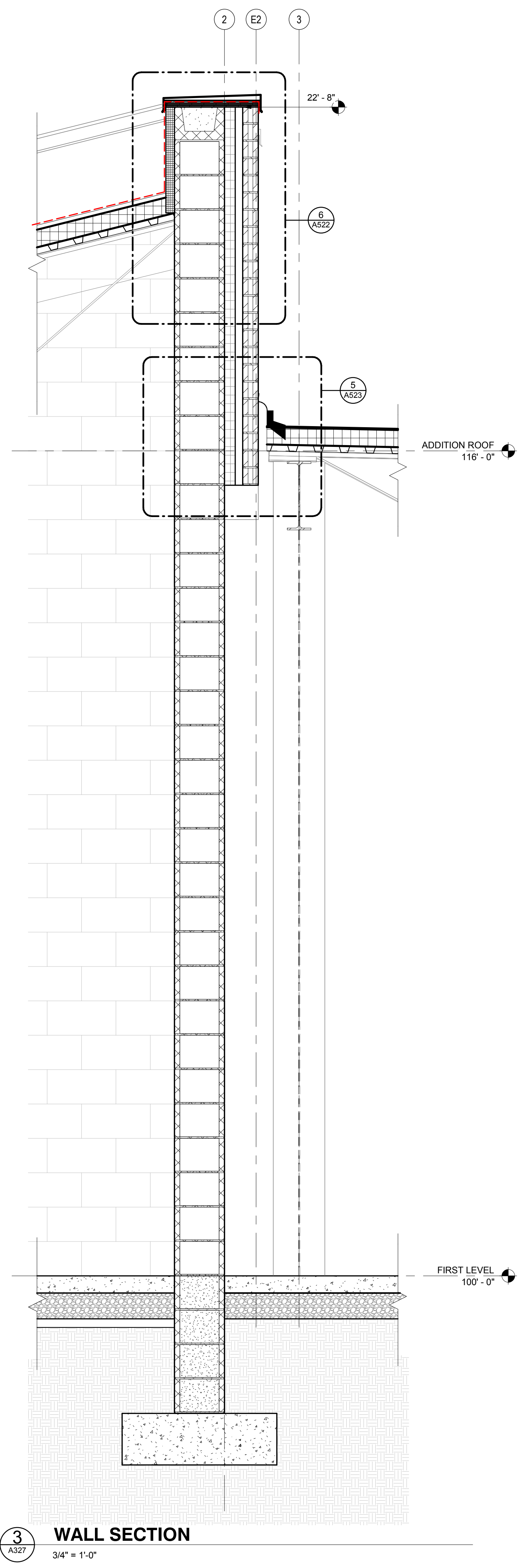
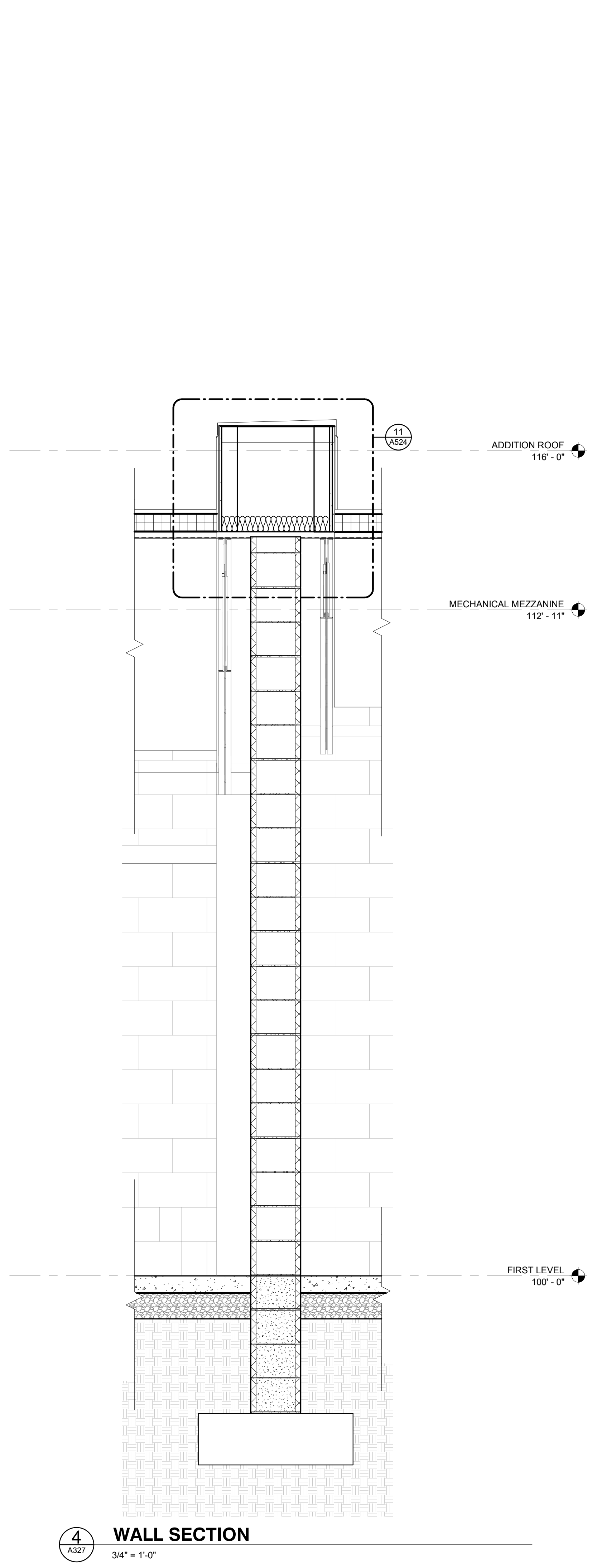
ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

WALL SECTIONS

A327



REGISTERED PROFESSIONAL ENGINEER
No. AR10700109
STATE OF INDIANA
David L. McCloskey
CERTIFIED BY

ISSUANCE INDEX

DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

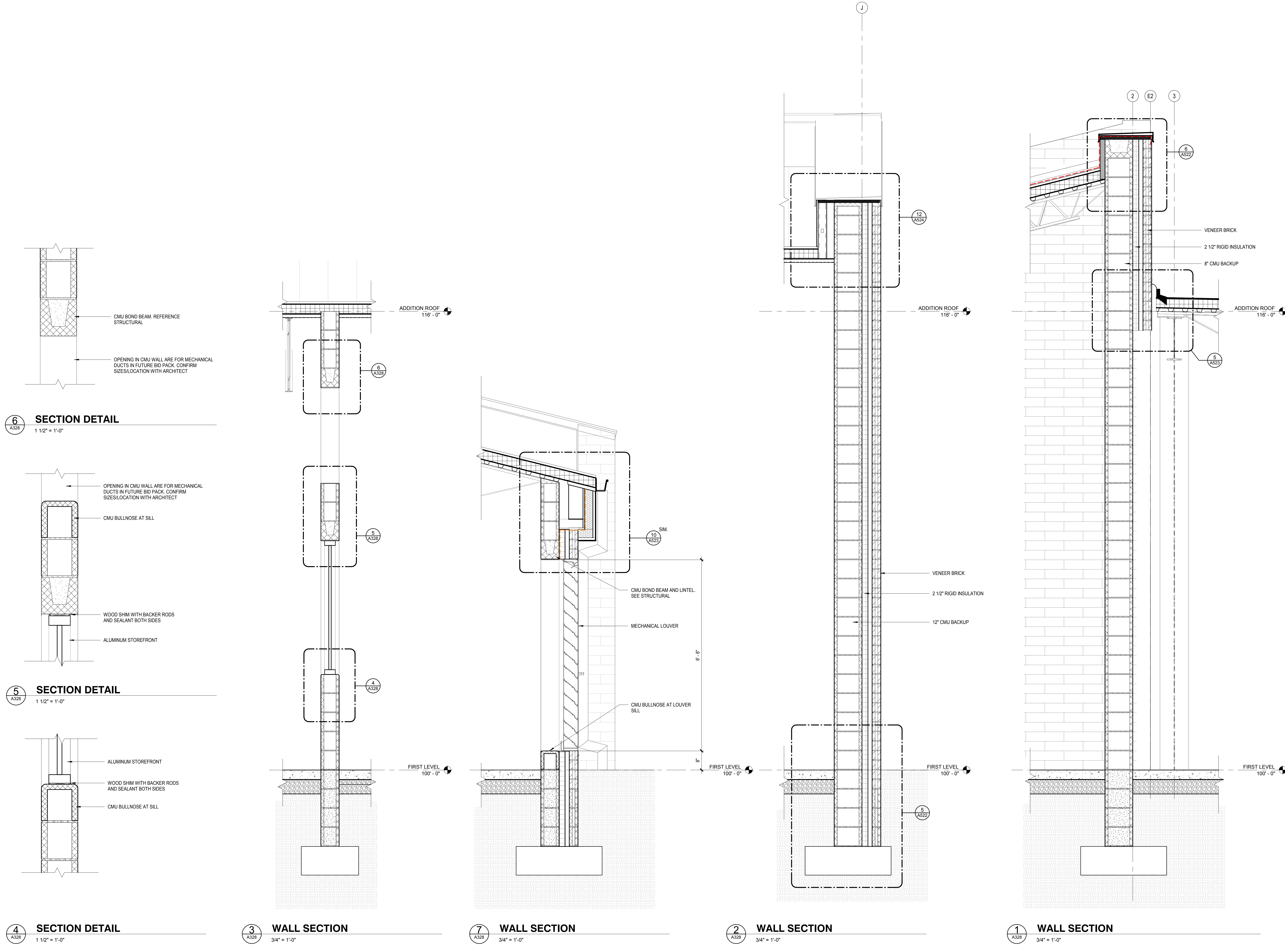
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2017.01279

WALL SECTIONS

A328



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

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

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

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

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

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

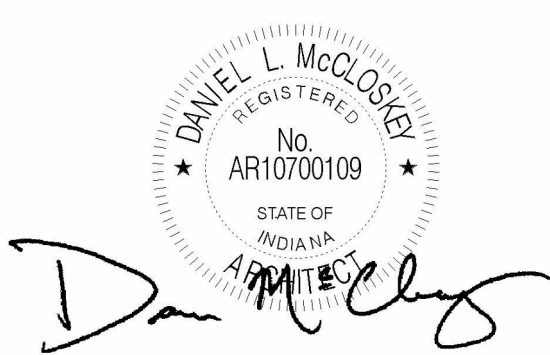
5 SECTION DETAIL
1 1/2" = 1'-0"

8/20/2018 3:23:13 PM



PORTER COUNTY ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



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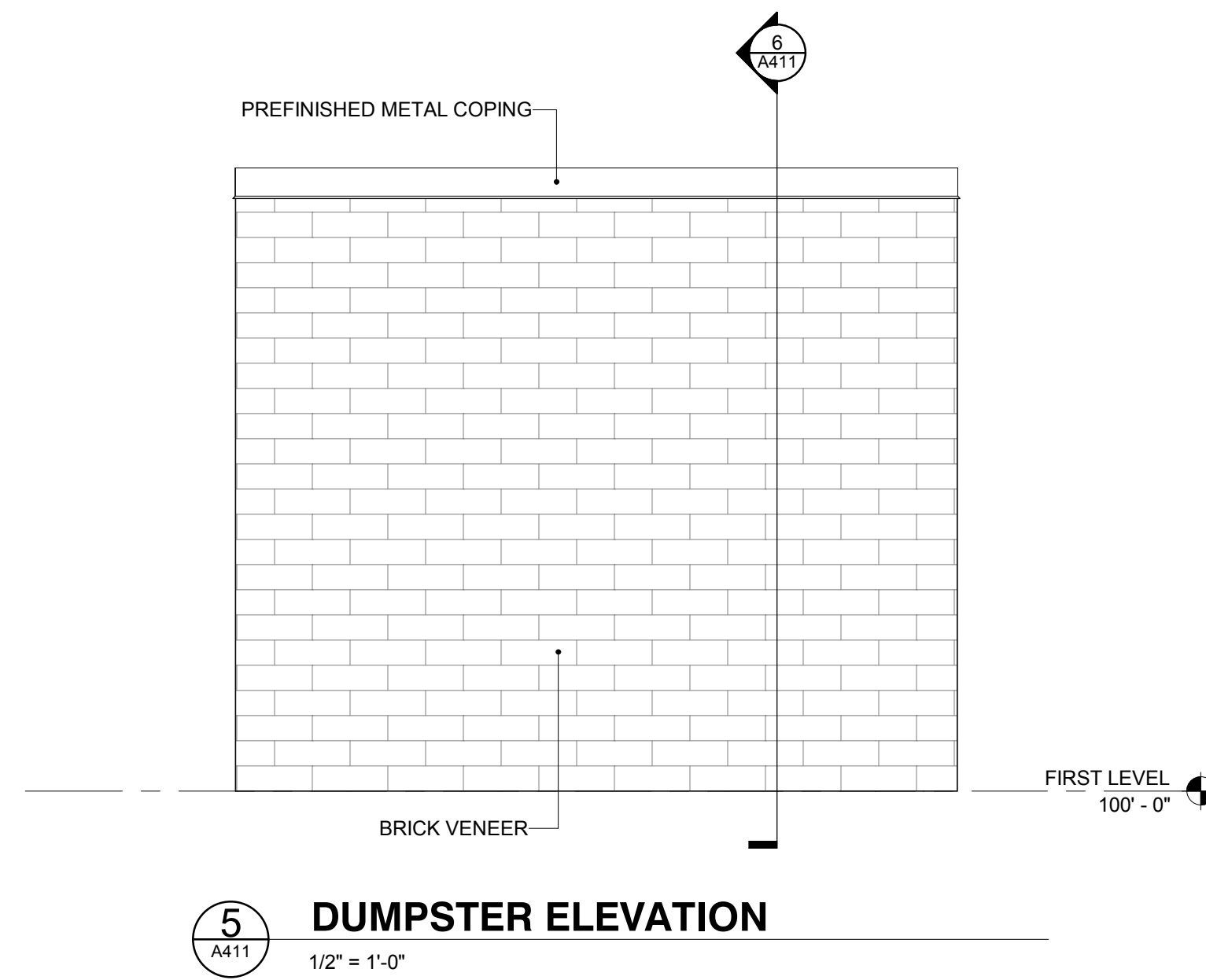
ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

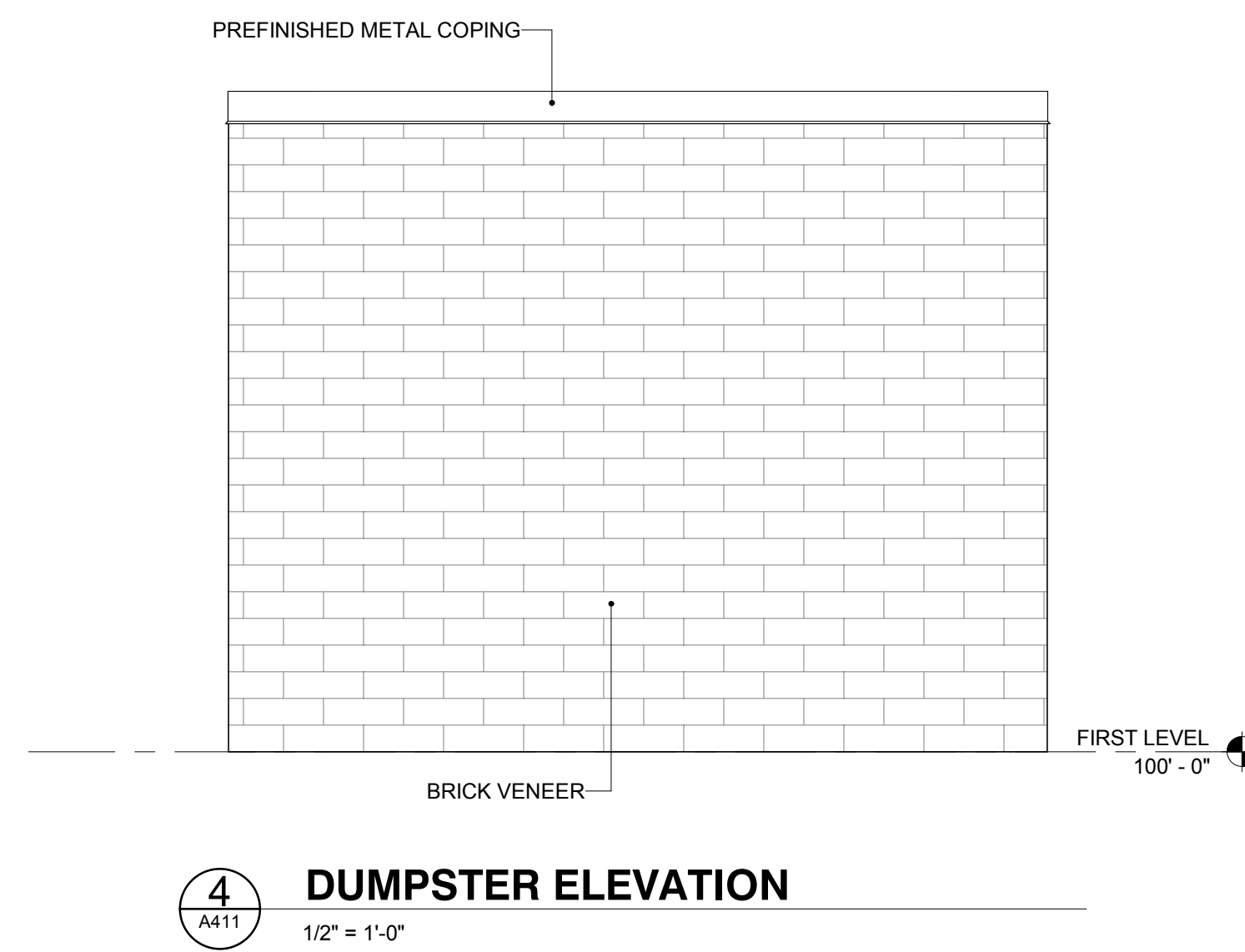
Project Number 2017.01279

DUMPSTER PLAN AND ELEVATIONS

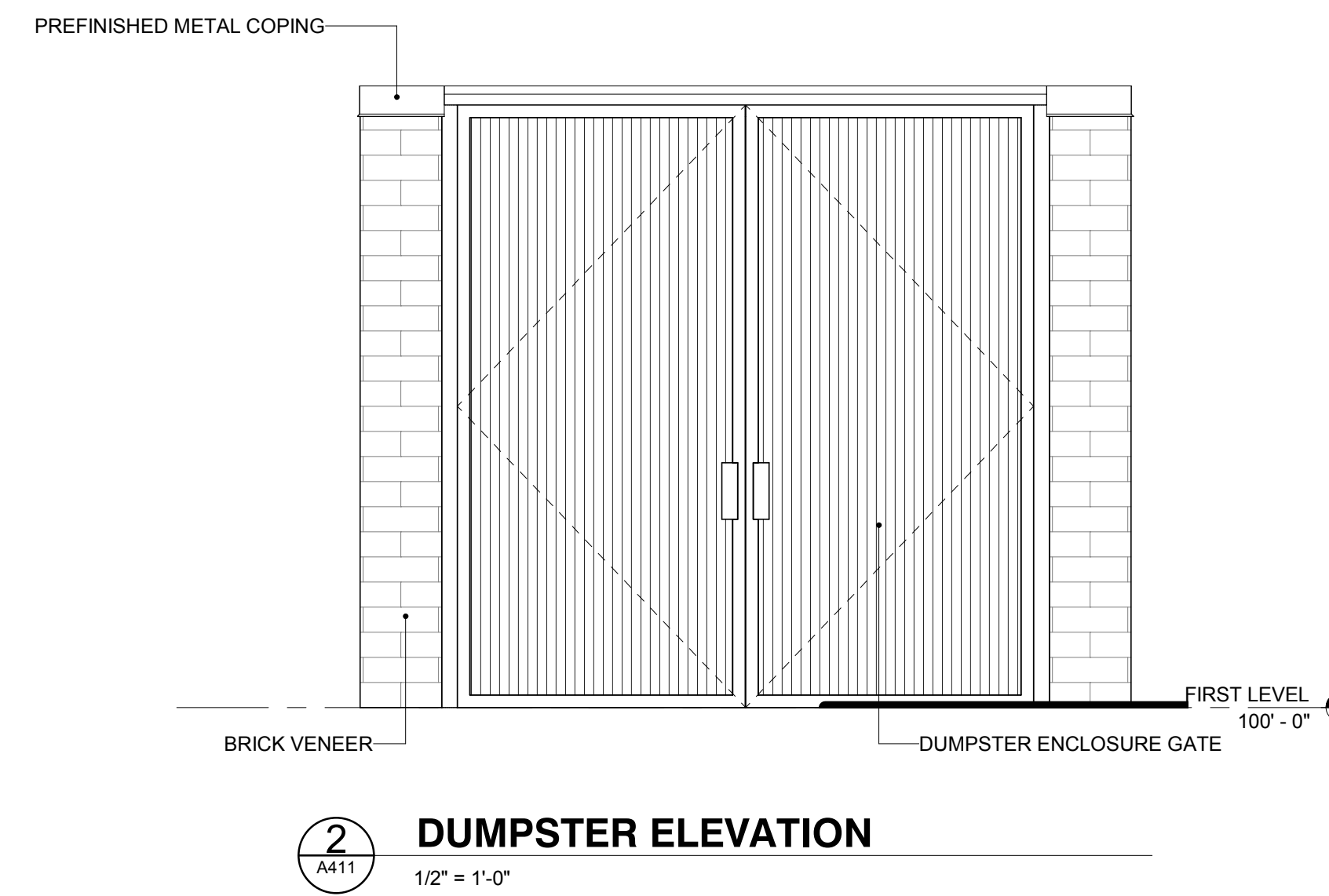
A411



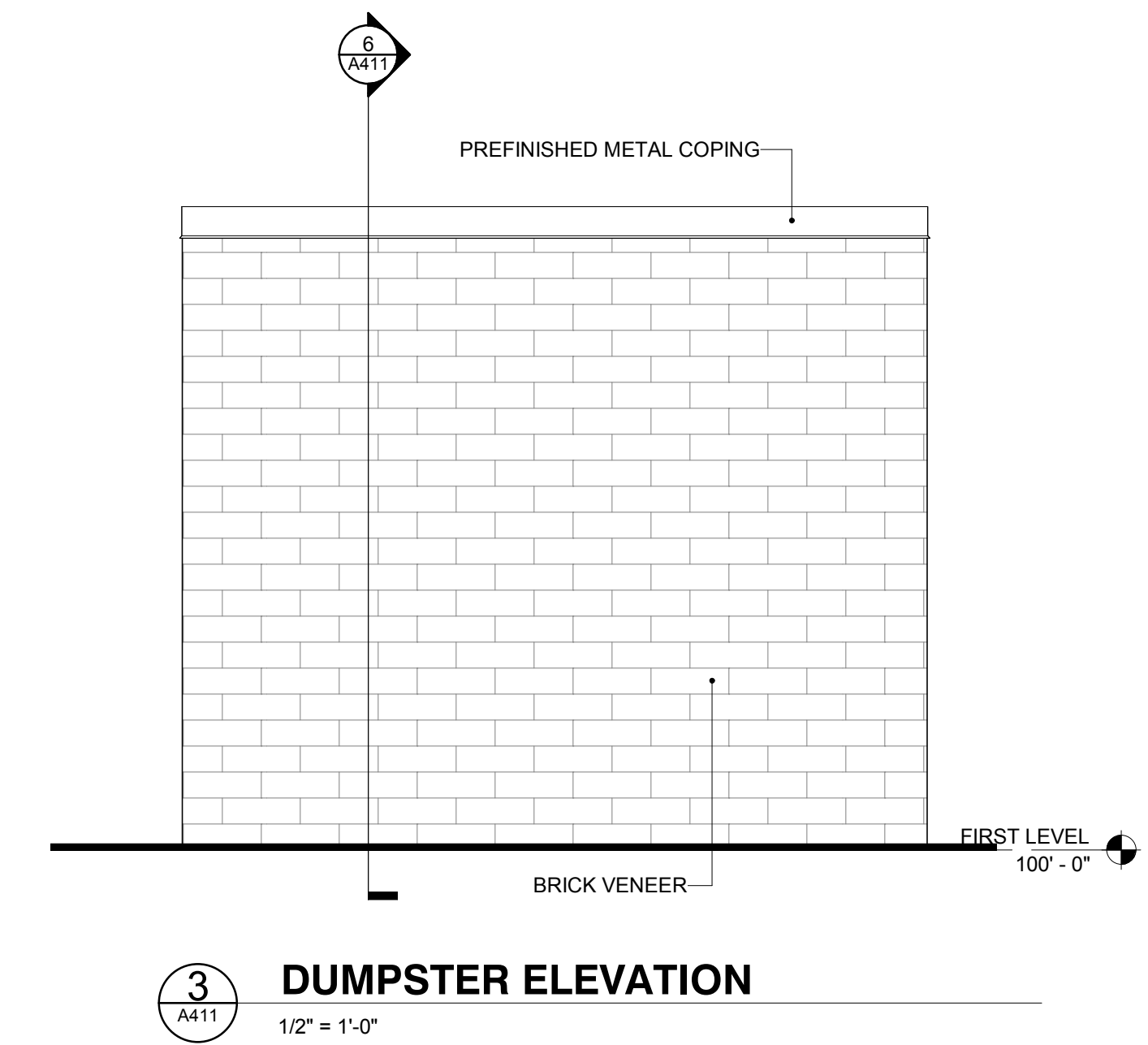
5
A411
DUMPSTER ELEVATION
1/2" = 1'-0"



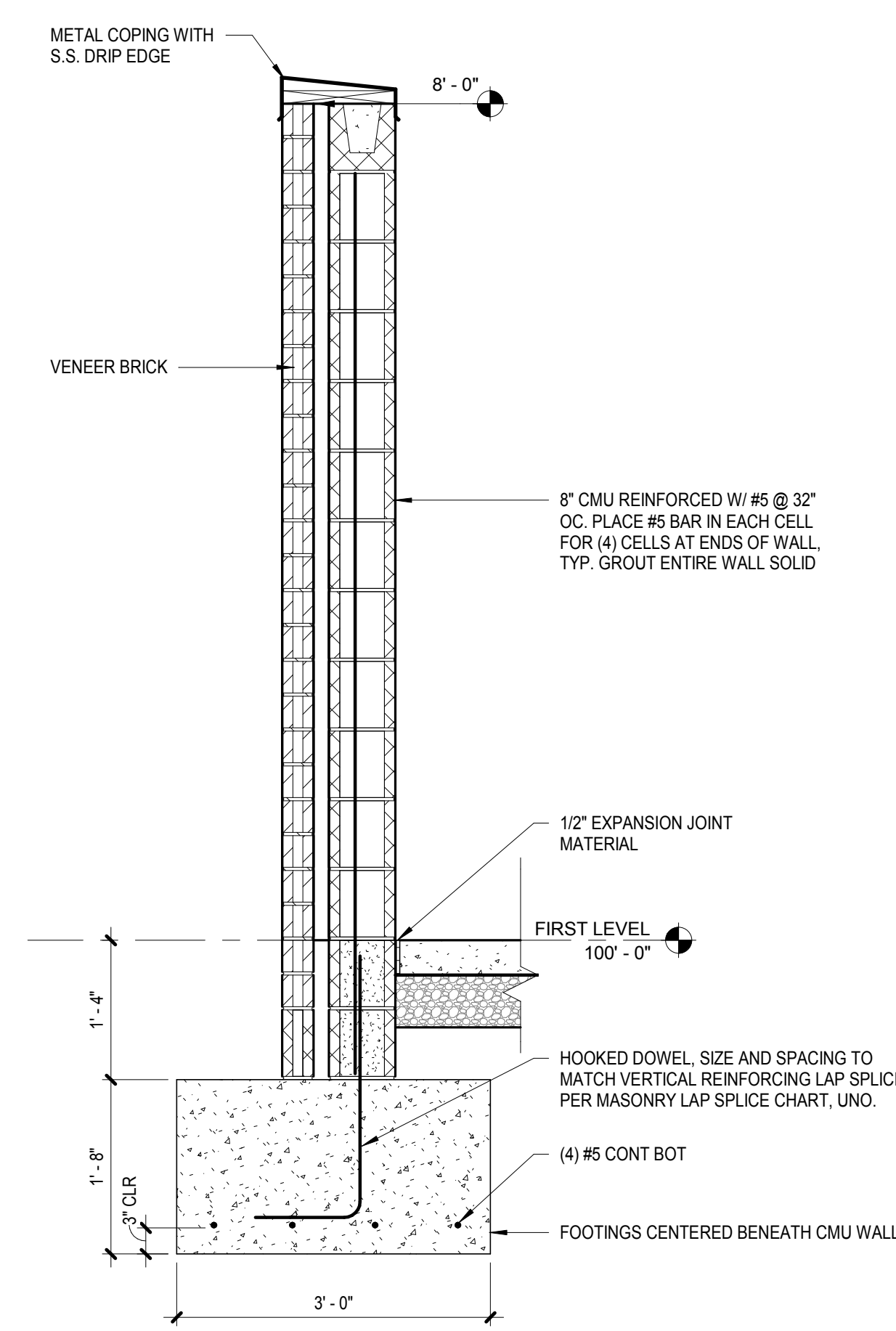
4
A411
DUMPSTER ELEVATION
1/2" = 1'-0"



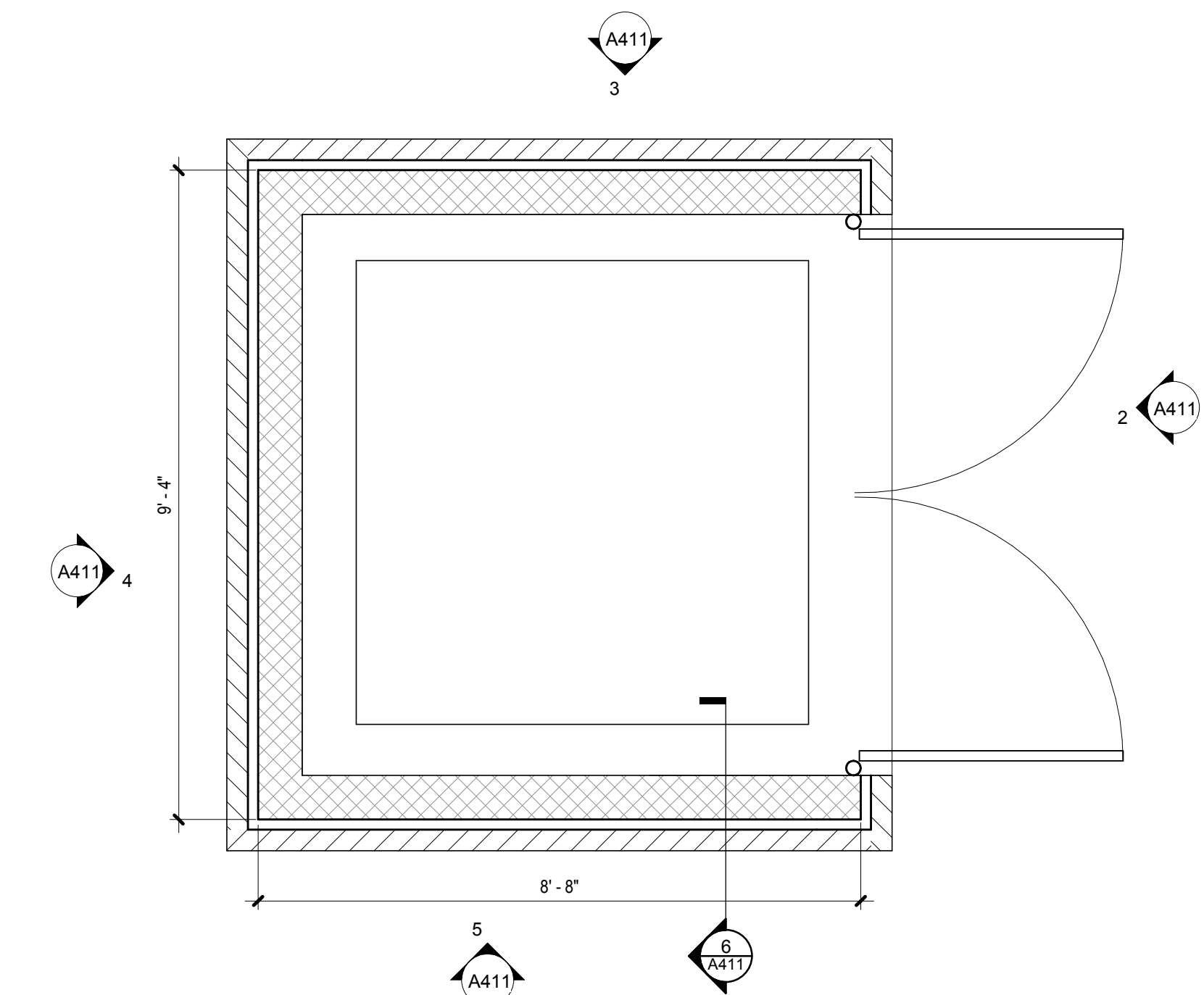
2
A411
DUMPSTER ELEVATION
1/2" = 1'-0"



3
A411
DUMPSTER ELEVATION
1/2" = 1'-0"



6
A411
WALL SECTION
3/4" = 1'-0"



1
A411
ENLARGED DUMPSTER PLAN
1/2" = 1'-0"



PORTER COUNTY ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



CERTIFIED BY
Daniel L. McCloskey

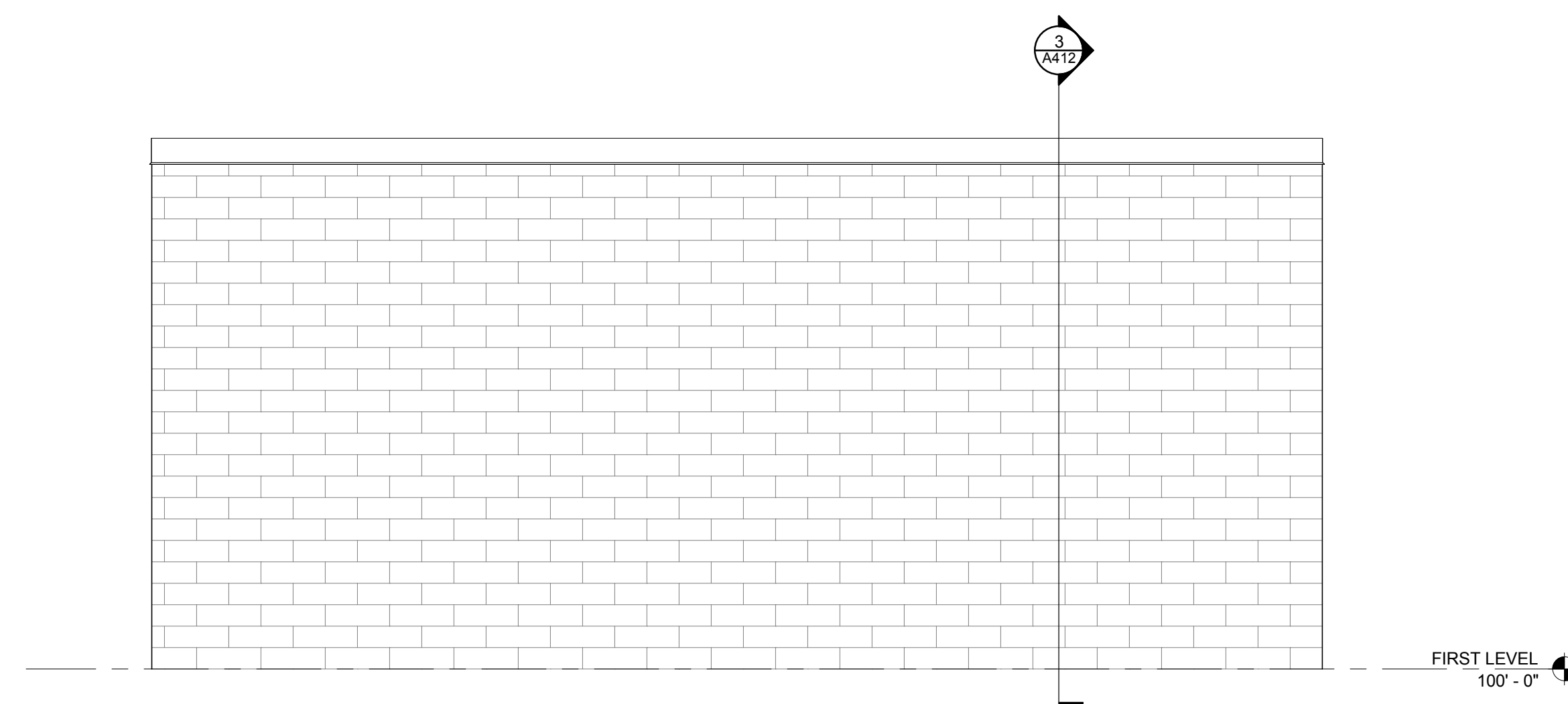
ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

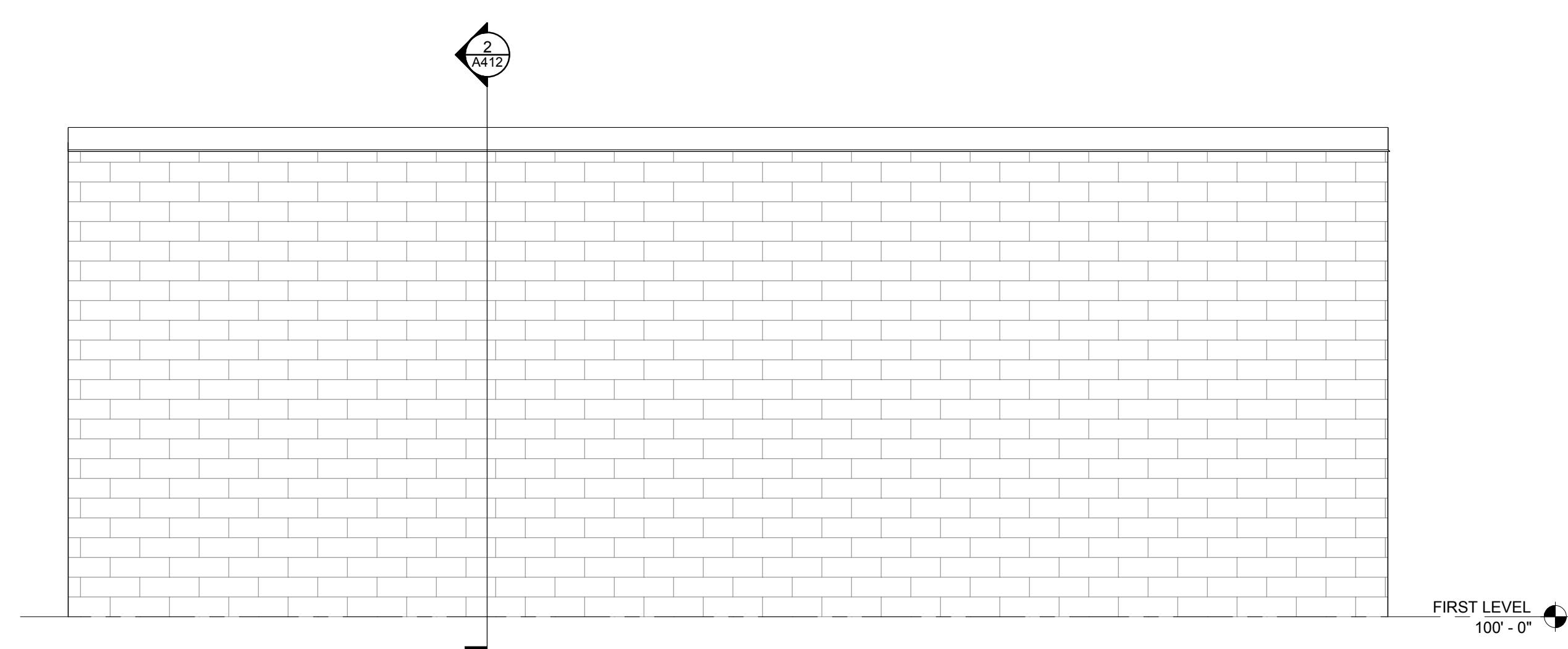
Project Number 2017.01279

COOLING TOWER ENCLOSURE PLAN AND ELEVATIONS

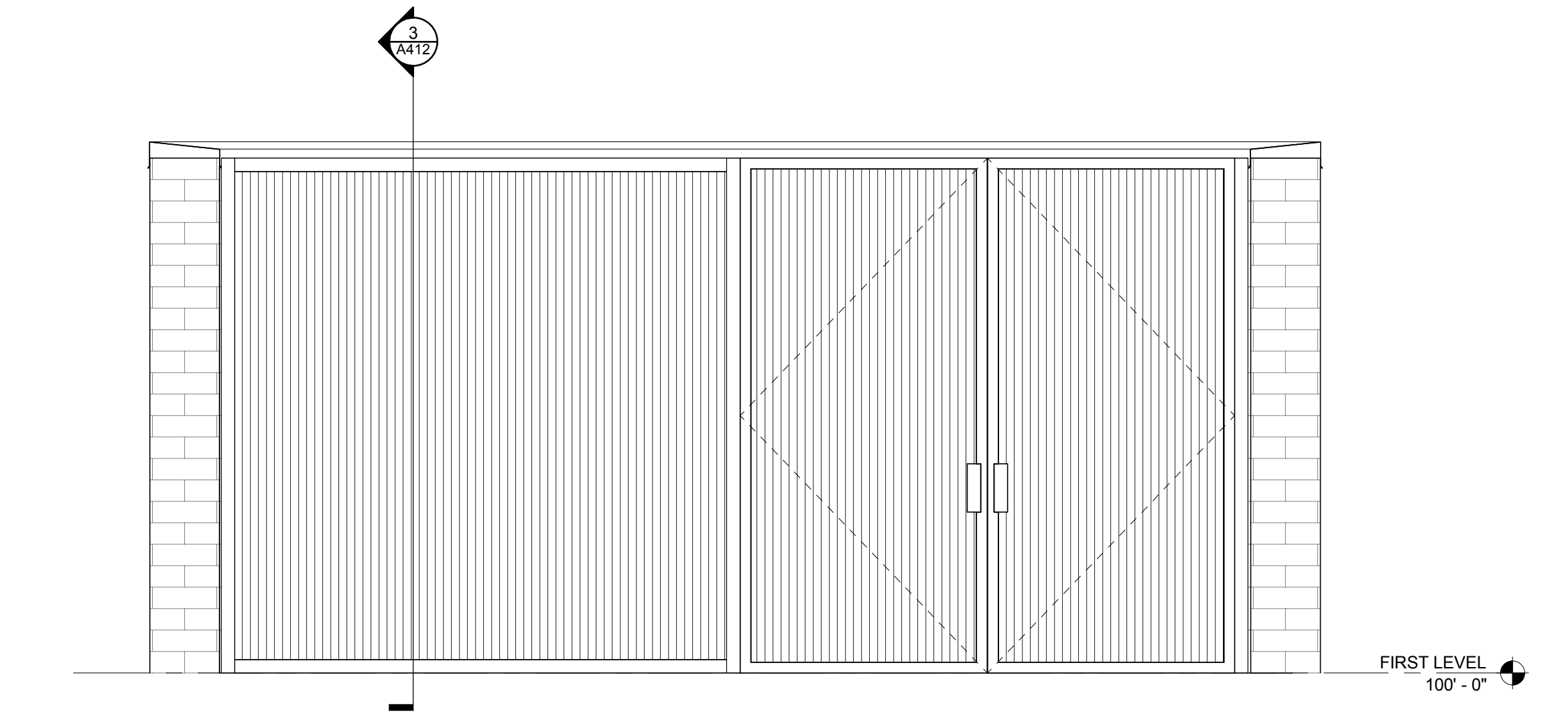
A412



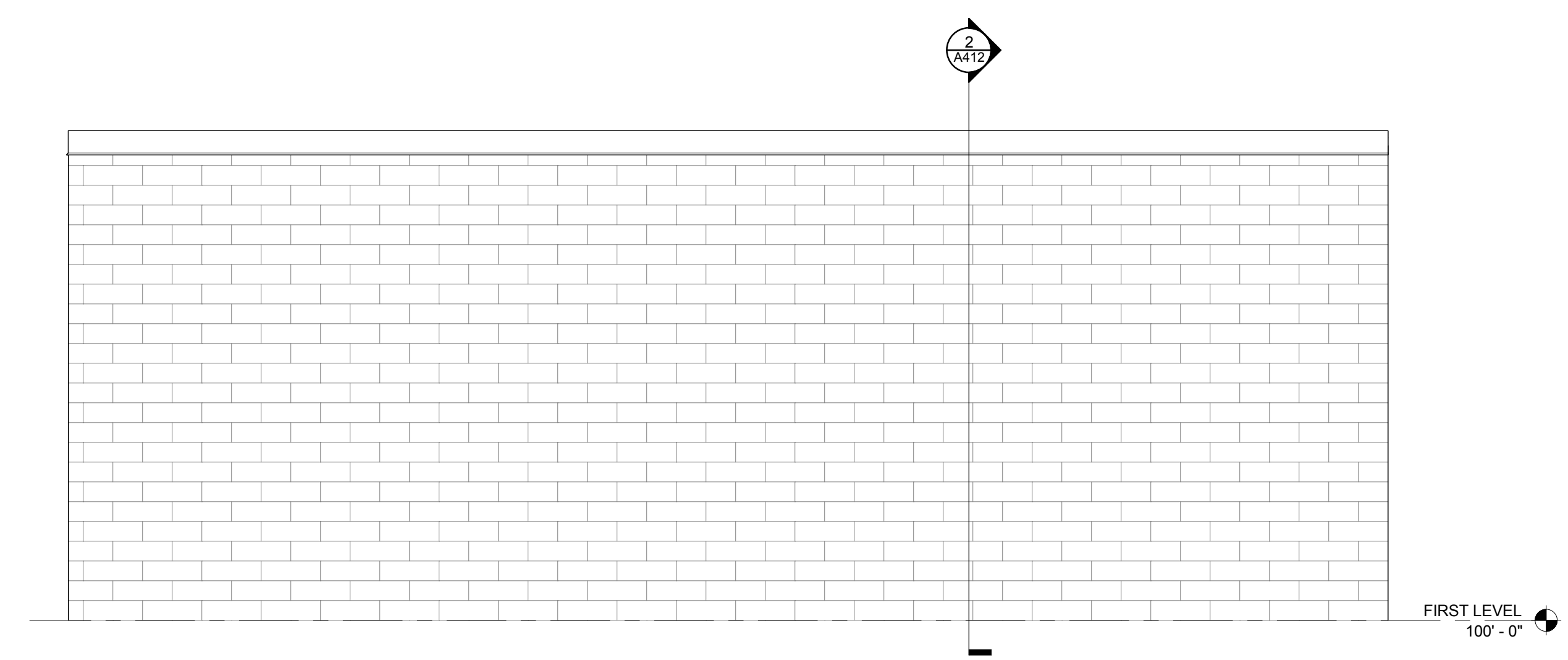
7 COOLING TOWER ENCLOSURE ELEVATION
1/2" = 1'-0"



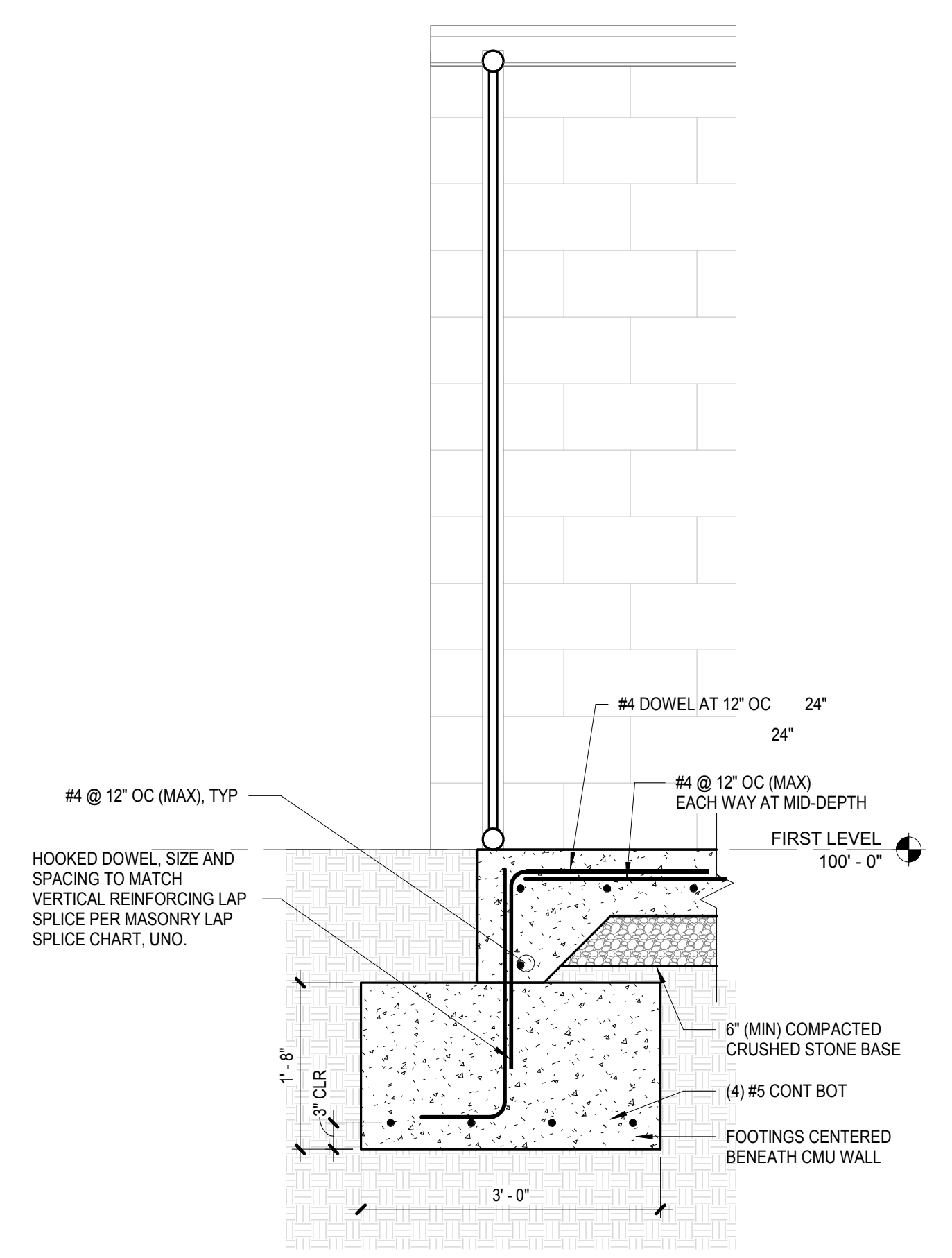
5 COOLING TOWER ENCLOSURE ELEVATION
1/2" = 1'-0"



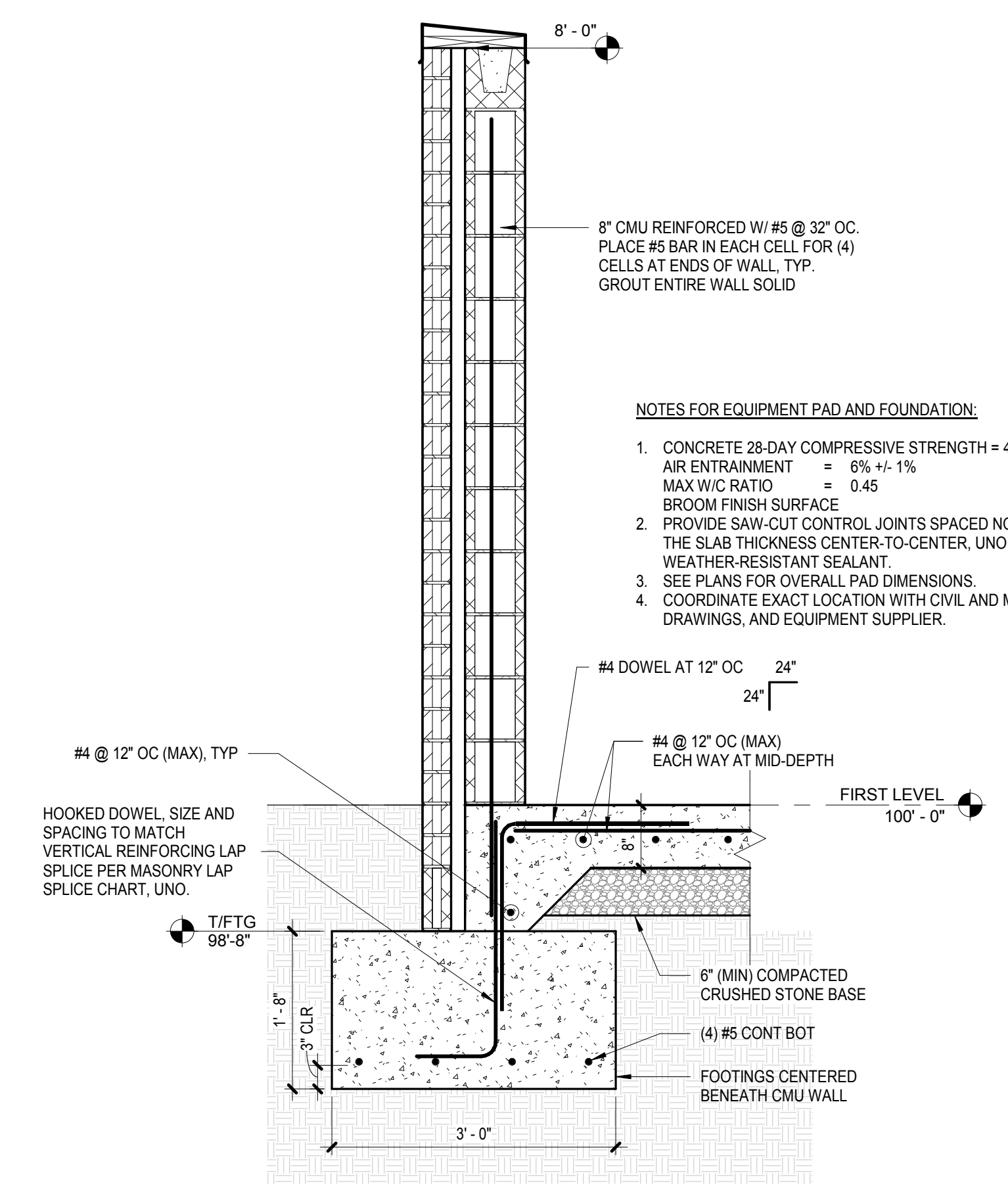
6 COOLING TOWER ENCLOSURE ELEVATION
1/2" = 1'-0"



4 COOLING TOWER ENCLOSURE ELEVATION
1/2" = 1'-0"

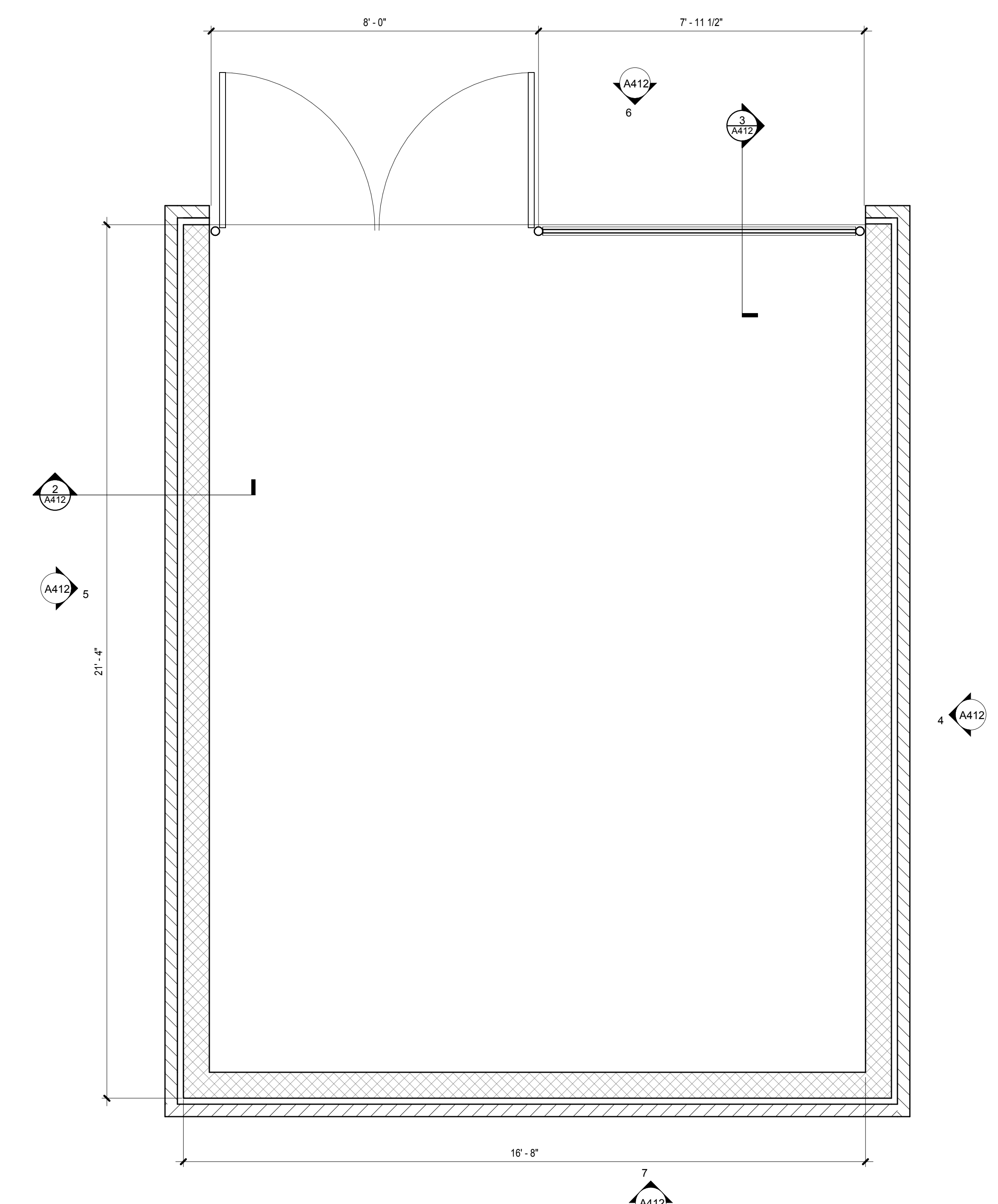


3 WALL SECTION
3/4" = 1'-0"



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

- NOTES FOR EQUIPMENT PAD AND FOUNDATION:
1. CONCRETE 28-DAY COMPRESSIVE STRENGTH = 4000 PSI, MINIMUM.
AIR ENTRAINMENT = 6% +/- 1%
MAX W/C RATIO = 0.45
BROOM FINISH SURFACE
 2. PROVIDE SAW-CUT CONTROL JOINTS SPACED NOT MORE THAN 24 TIMES THE SLAB THICKNESS CENTER-TO-CENTER, UNO. SEAL JOINTS WITH WEATHER-RESISTANT SEALANT.
 3. SEE PLANS FOR OVERALL PAD DIMENSIONS.
 4. COORDINATE EXACT LOCATION WITH CIVIL AND MECHANICAL DRAWINGS, AND EQUIPMENT SUPPLIER.



1 COOLING TOWER ENCLOSURE PLAN
1/2" = 1'-0"

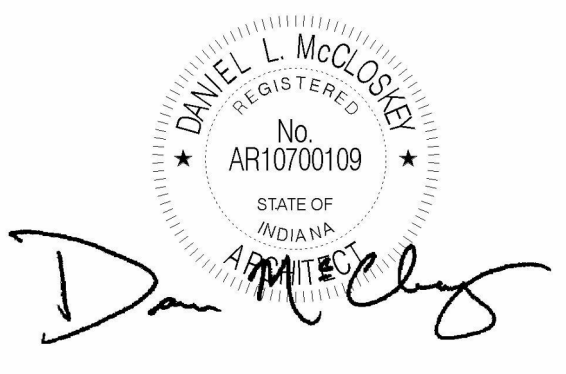
ALL INTERIOR METAL STUDS AND GYPSUM BOARD ARE NOT INCLUDED IN BID PACKAGE 01. THESE ITEMS ARE GREYED OUT AND WILL BE PART OF A LATER BID PACKAGE.



8006 Aetna Street
Merrillville, IN 46410
P: 219.942.2787
E: dmanson@skillman.com

PORTER COUNTY ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368



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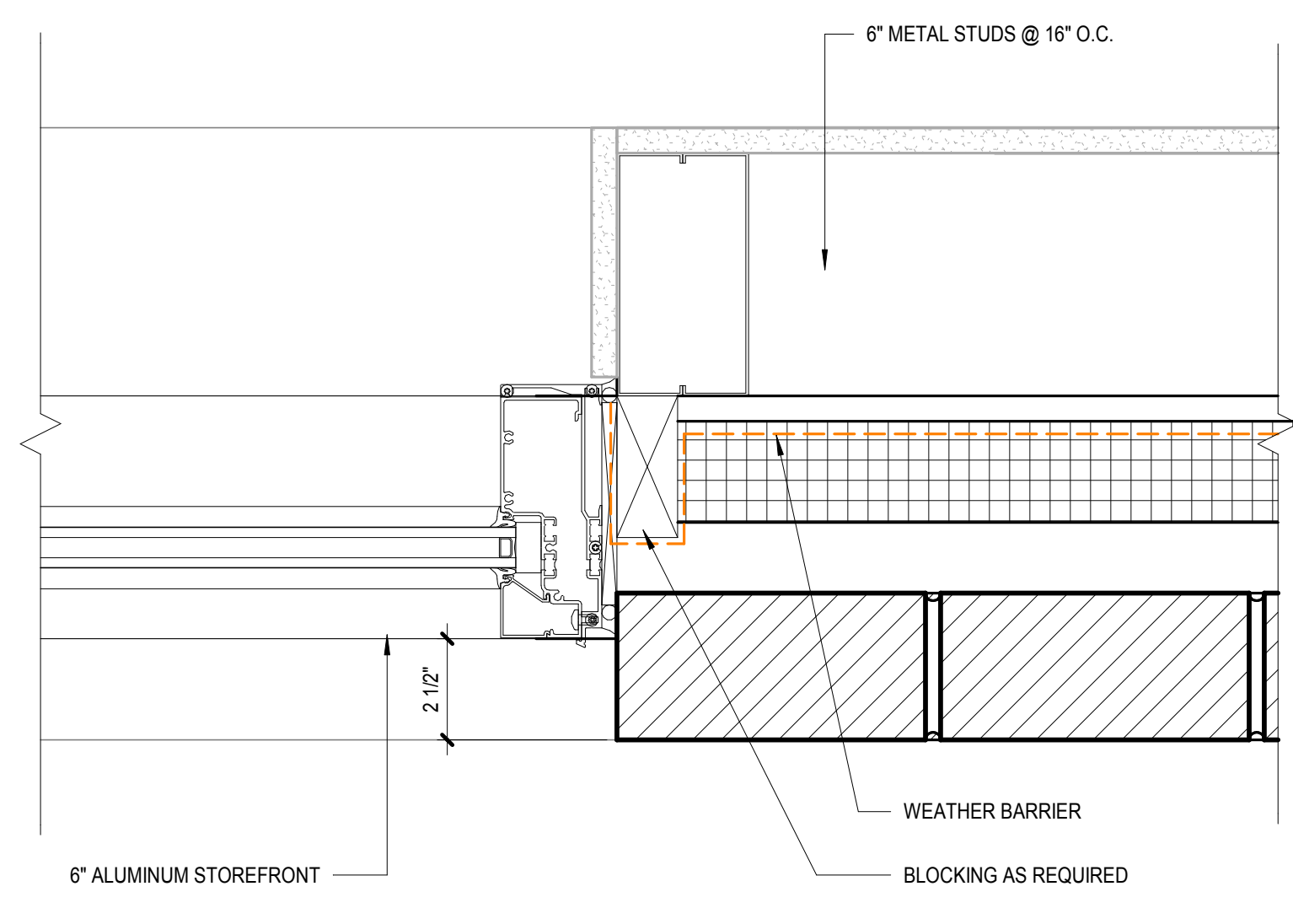
ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

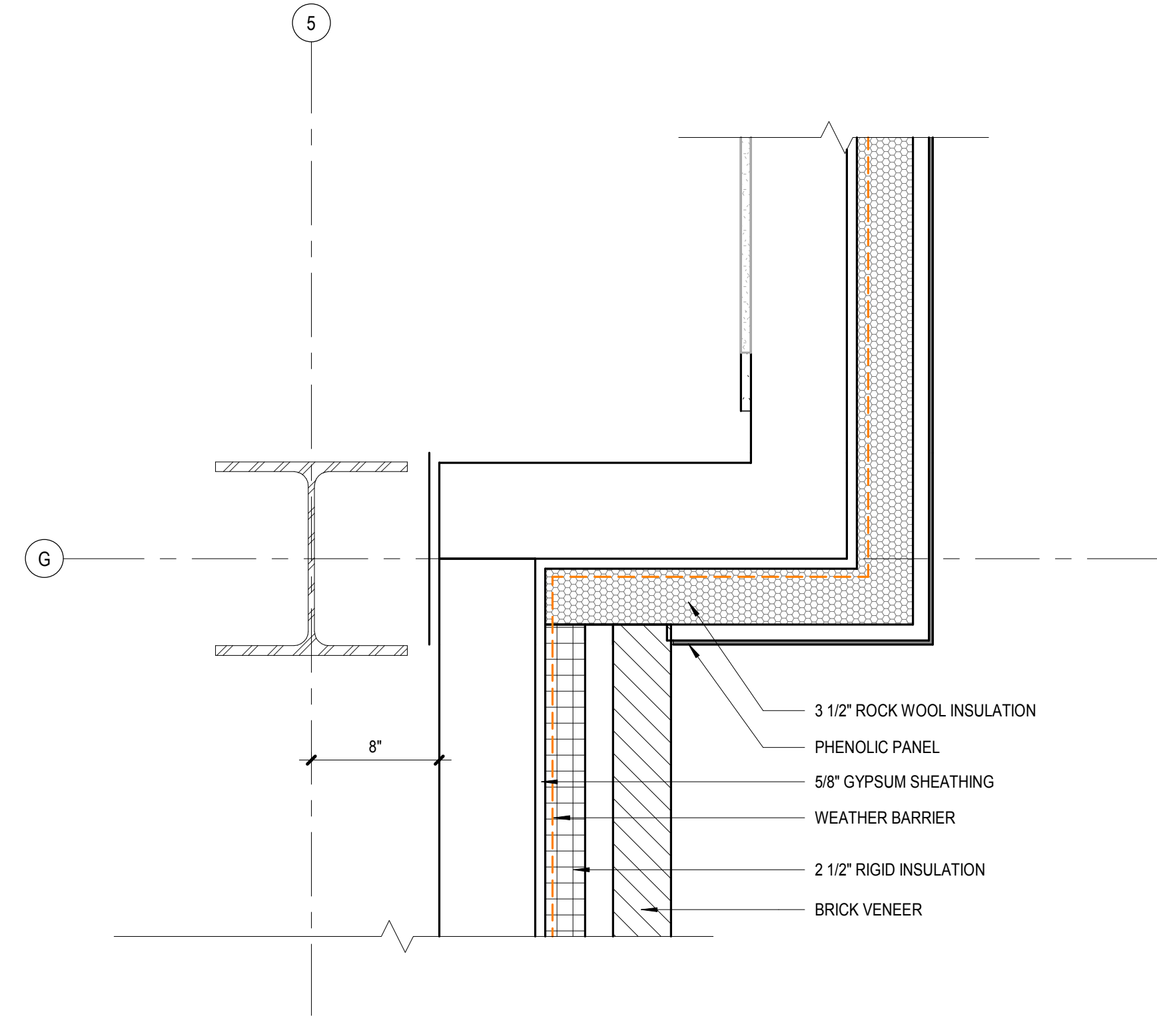
Project Number 2017.01279

PLAN DETAILS

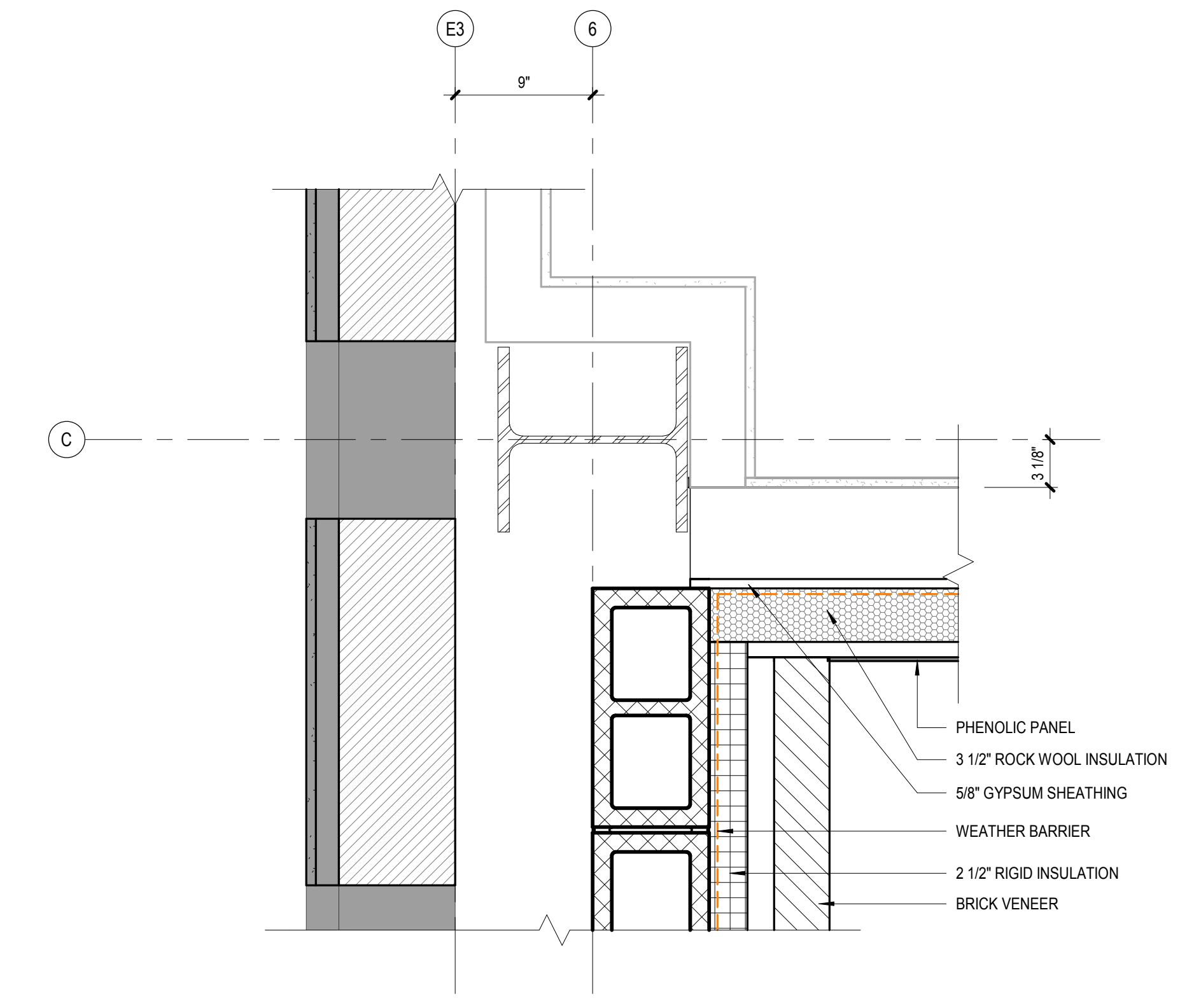
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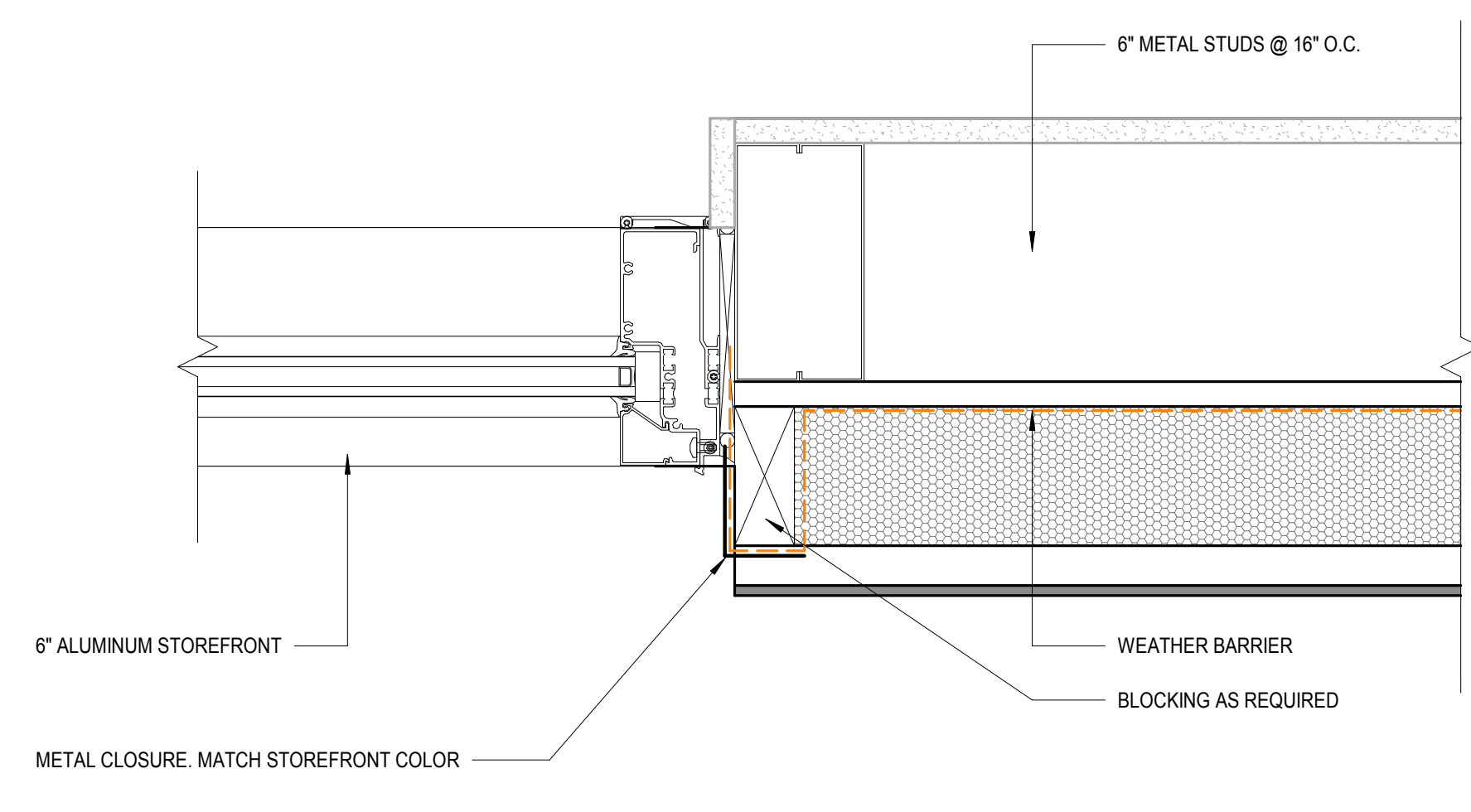
9 PLAN DETAIL
A501
3" = 1'-0"



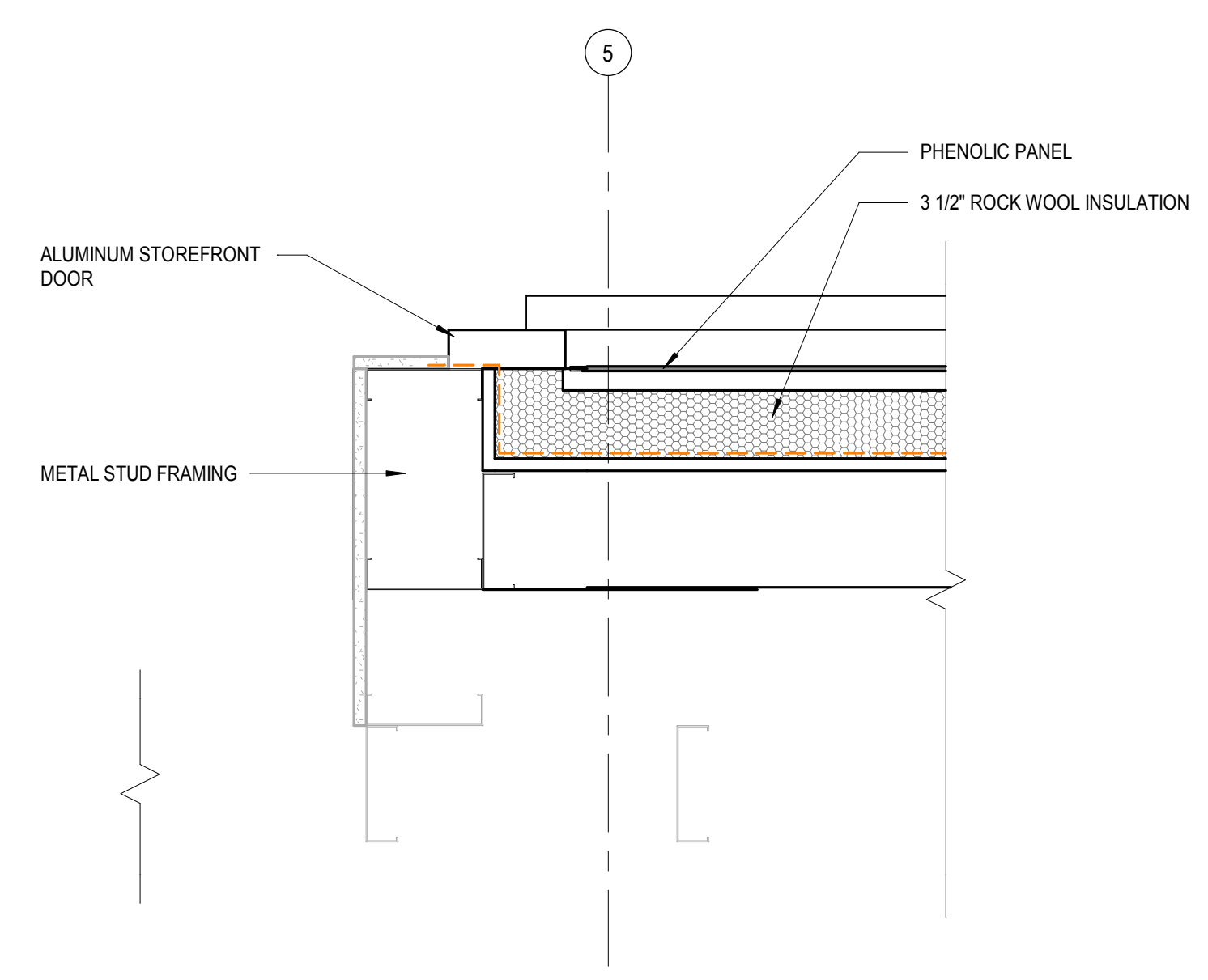
6 PLAN DETAIL
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1 1/2" = 1'-0"



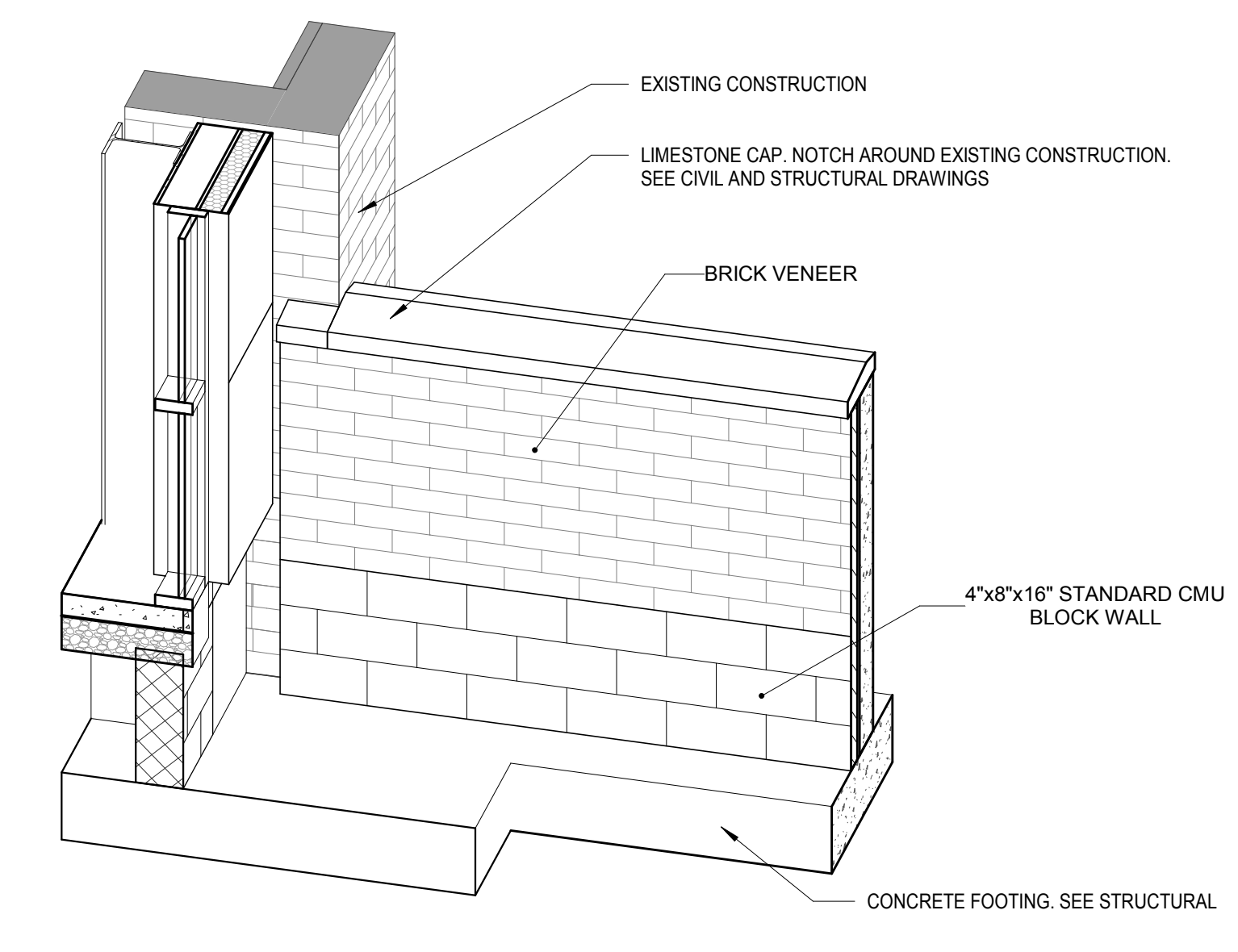
3 PLAN DETAIL
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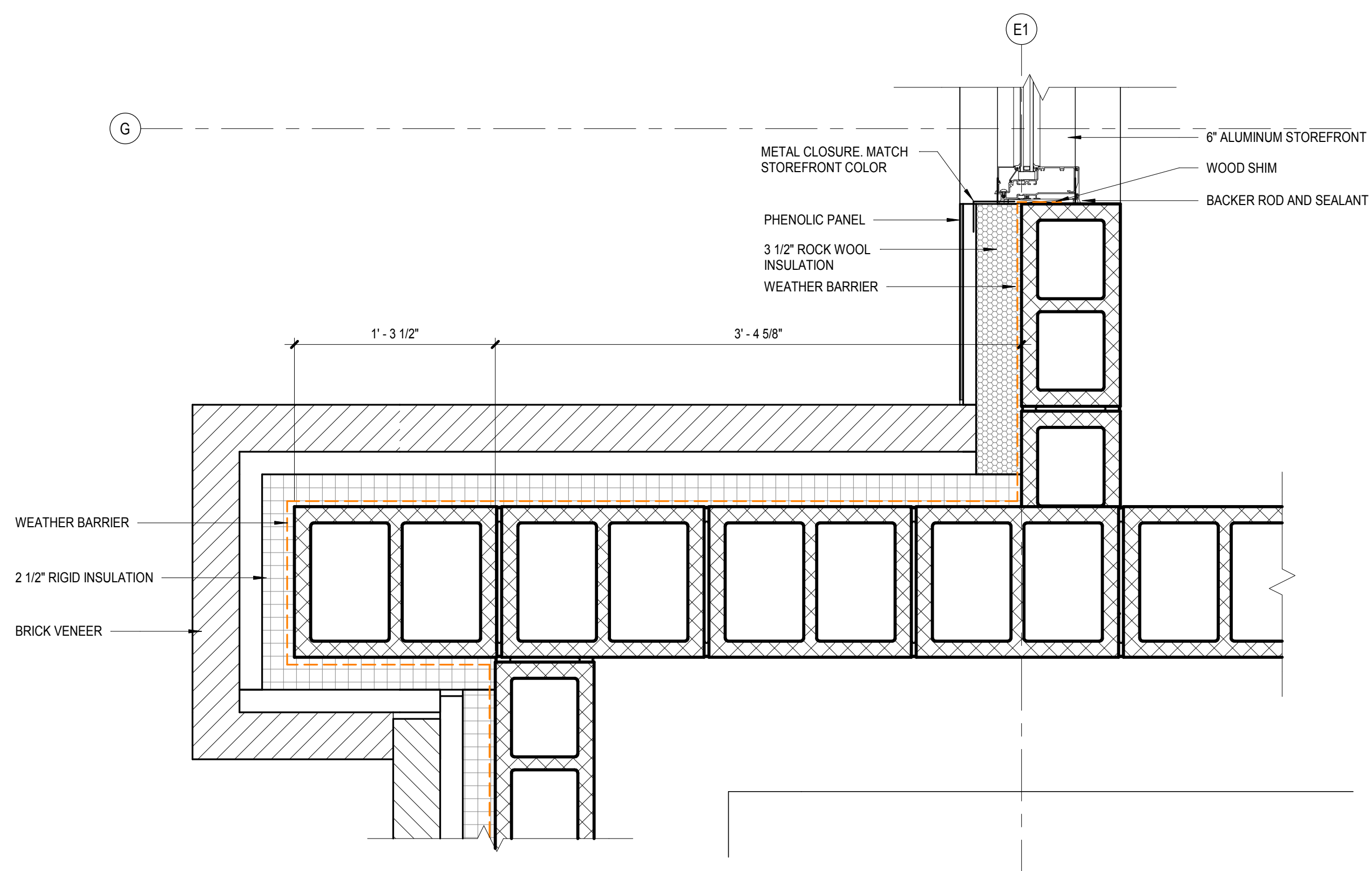
8 PLAN DETAIL
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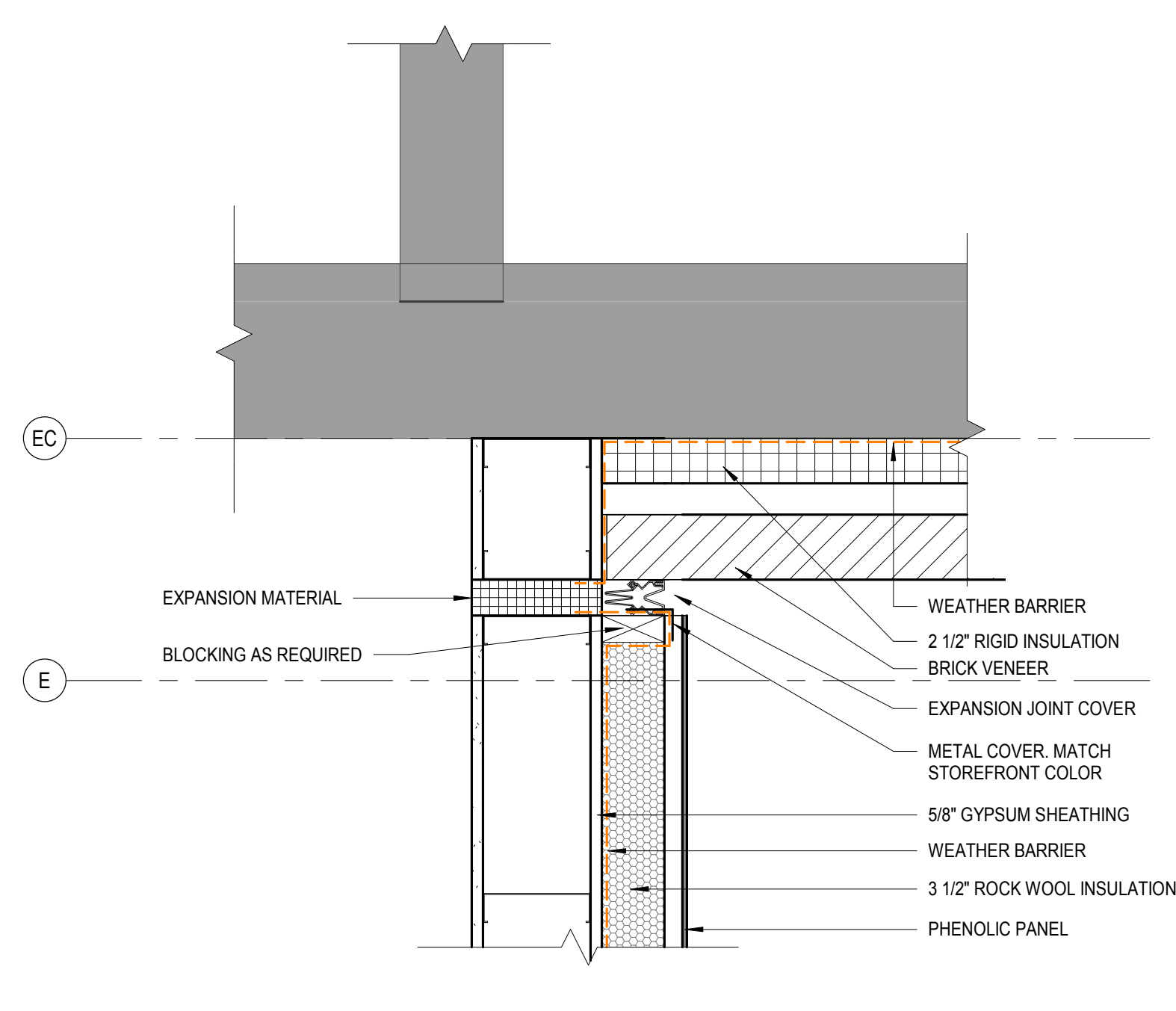
5 PLAN DETAIL
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1 1/2" = 1'-0"



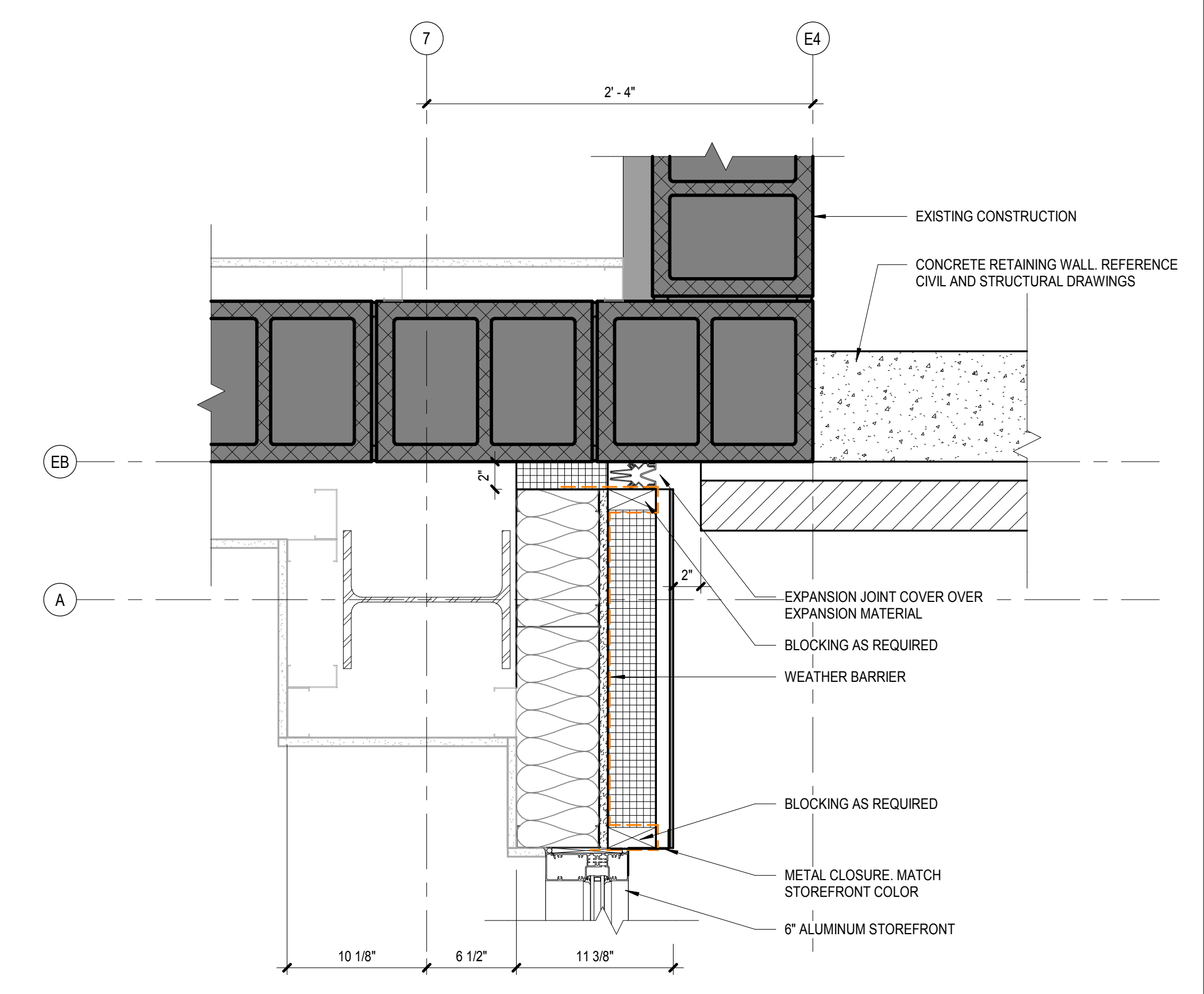
2 Retaining Wall Axon
A501



7 PLAN DETAIL
A501
1 1/2" = 1'-0"



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



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

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DANIEL L. MCCLOSKEY
REGISTERED
No. AR10700109
STATE OF INDIANA
Professional Engineer
Daniel L. McCloskey

CERTIFIED BY

ISSUANCE INDEX

DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

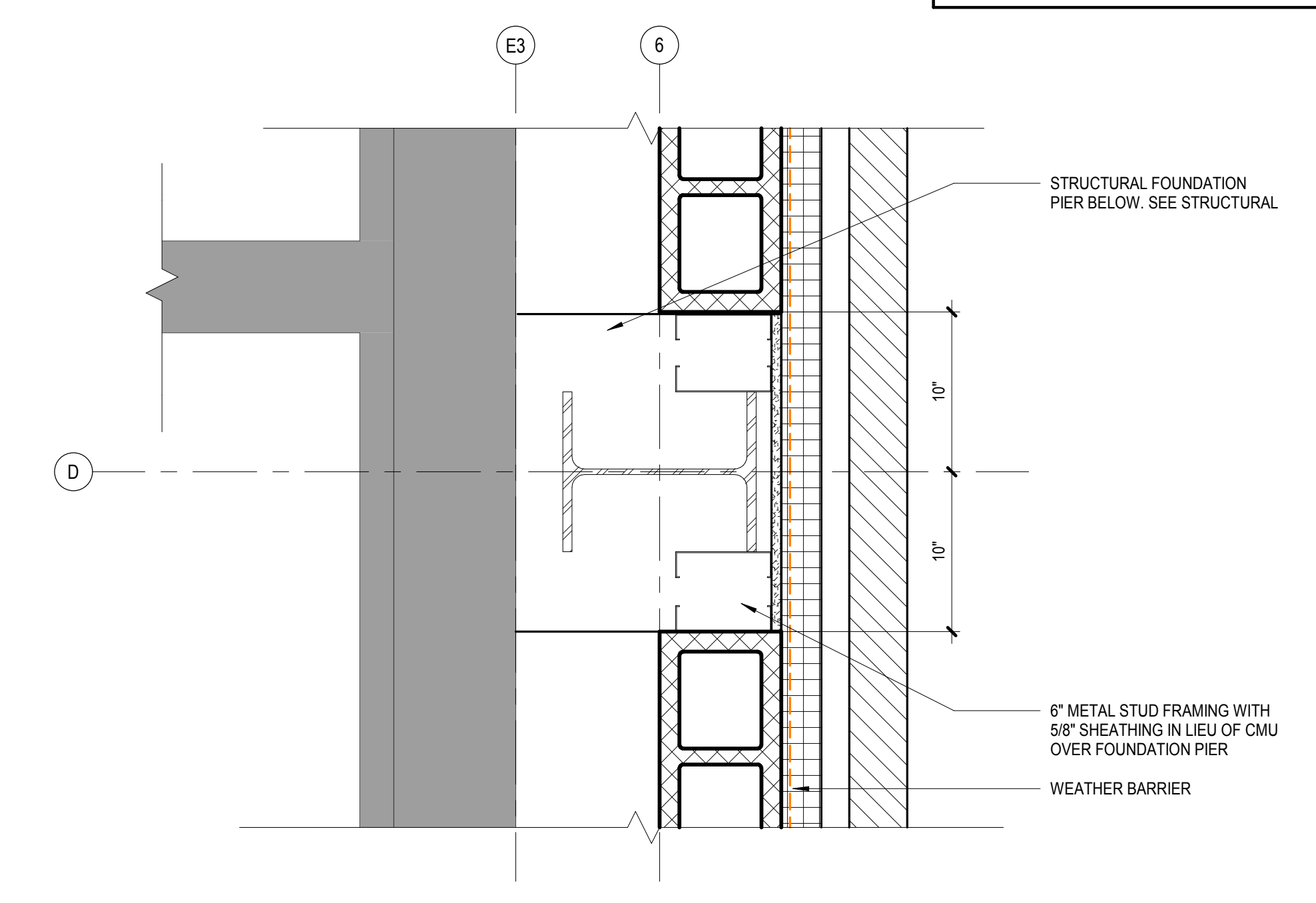
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

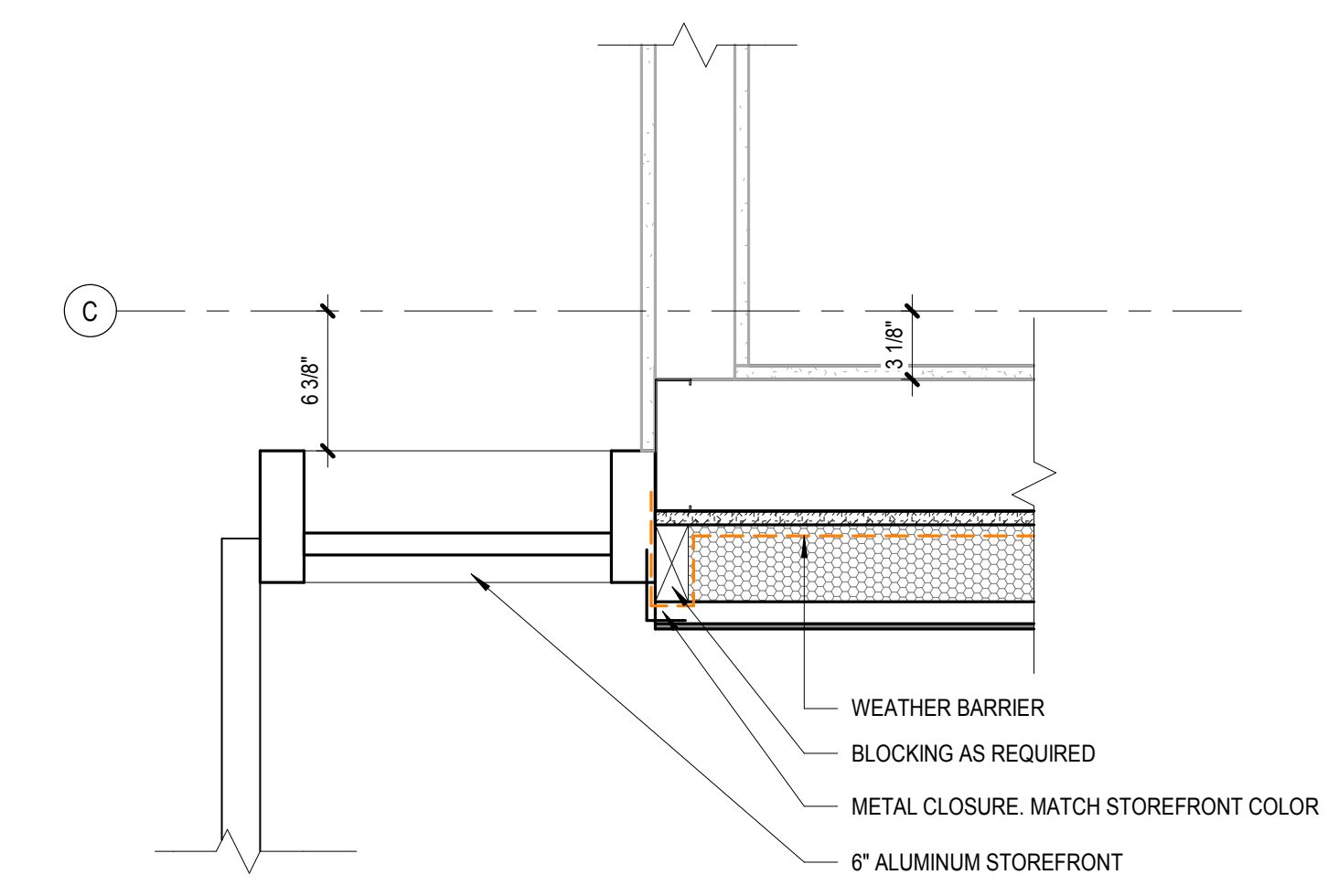
Project Number 2017.01279

PLAN DETAILS

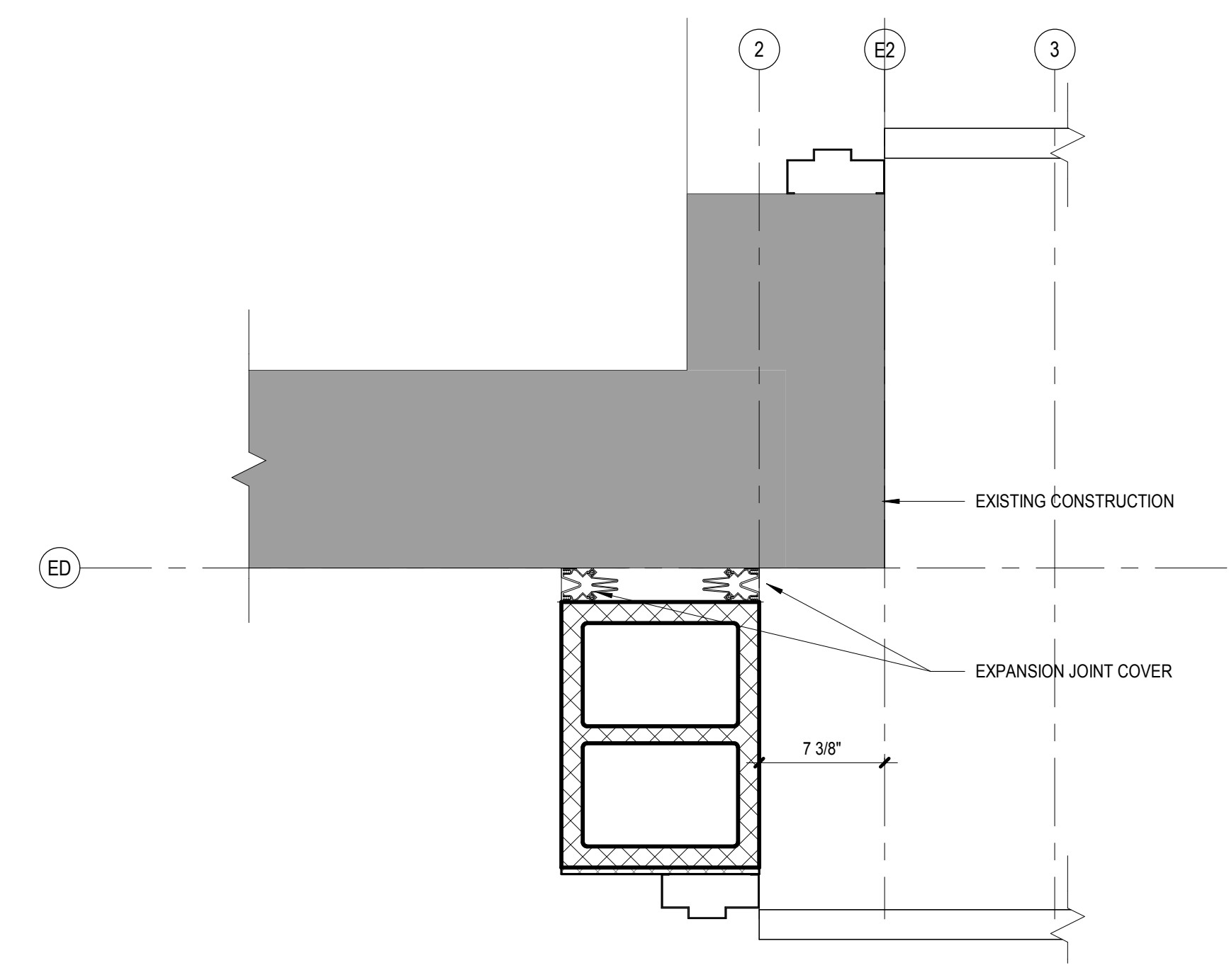
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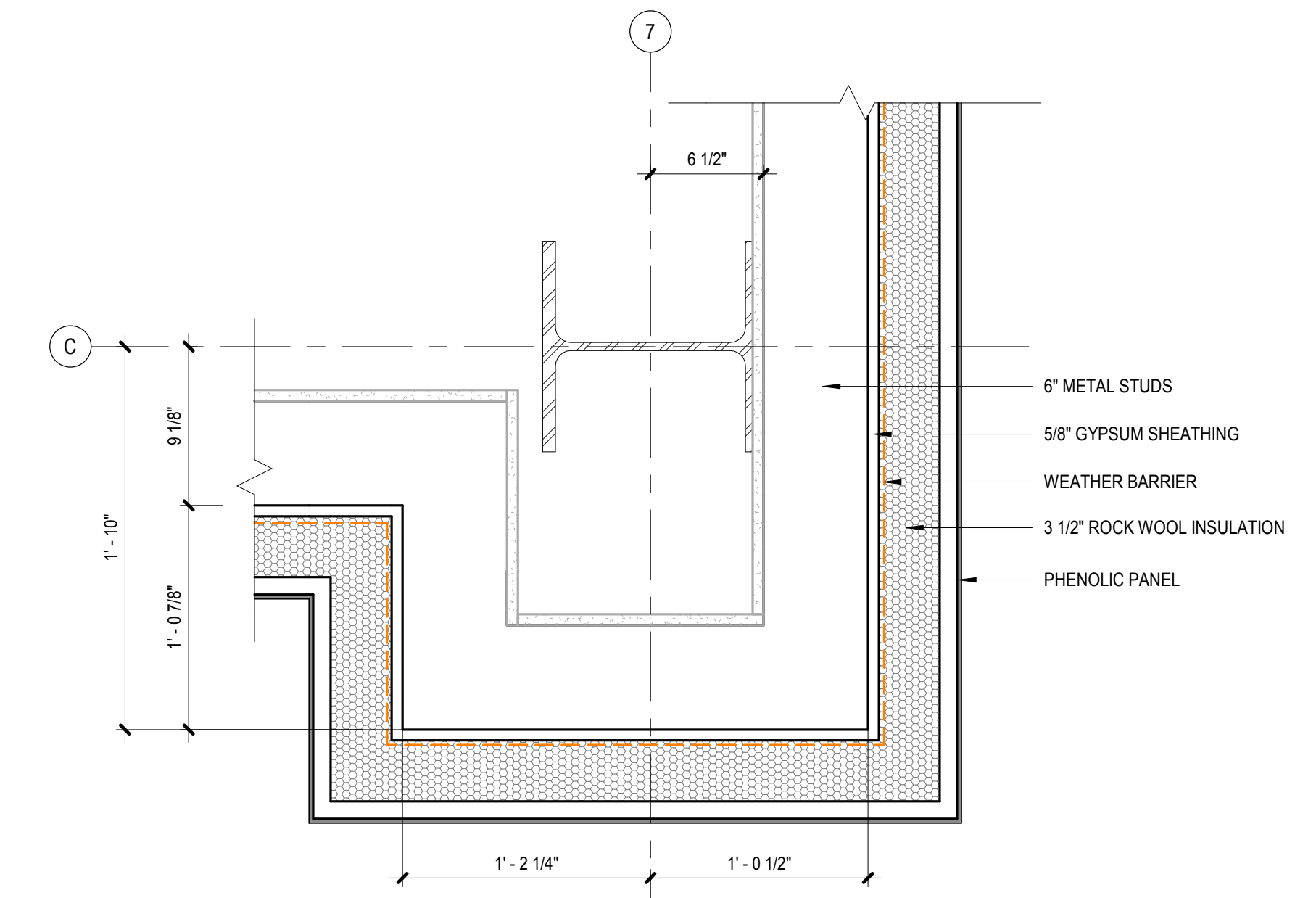
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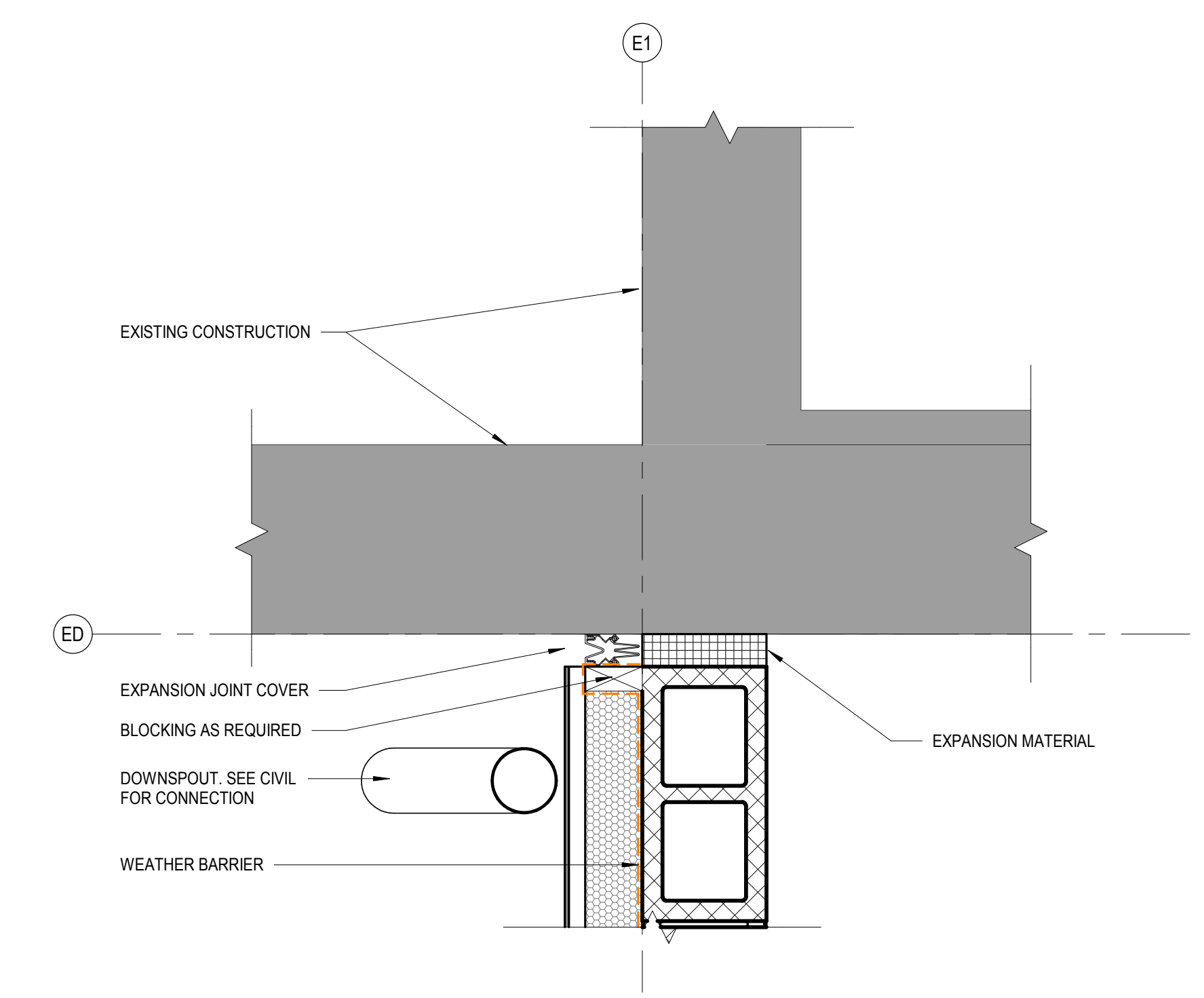
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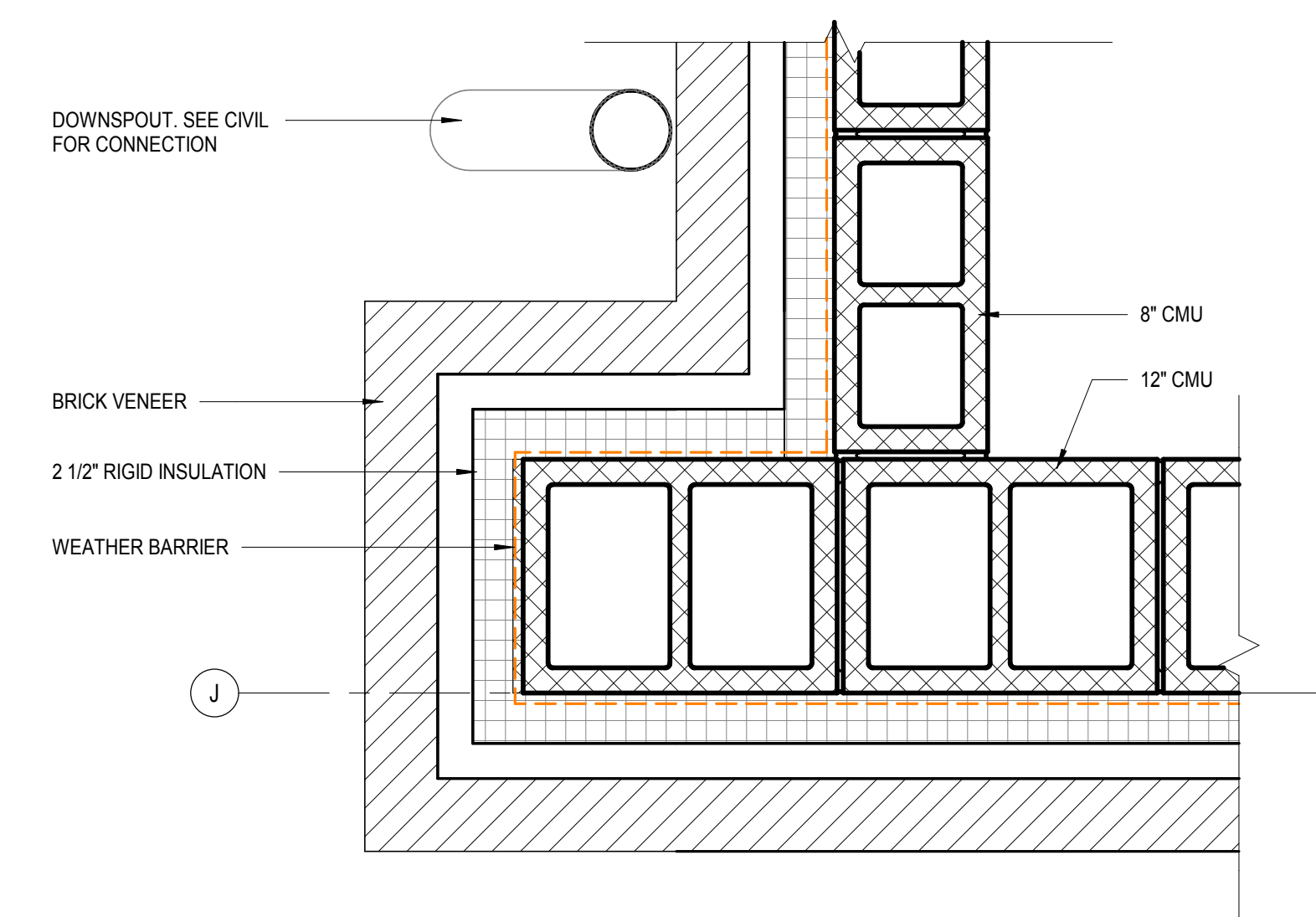
2 PLAN DETAIL
1 1/2" = 1'-0"



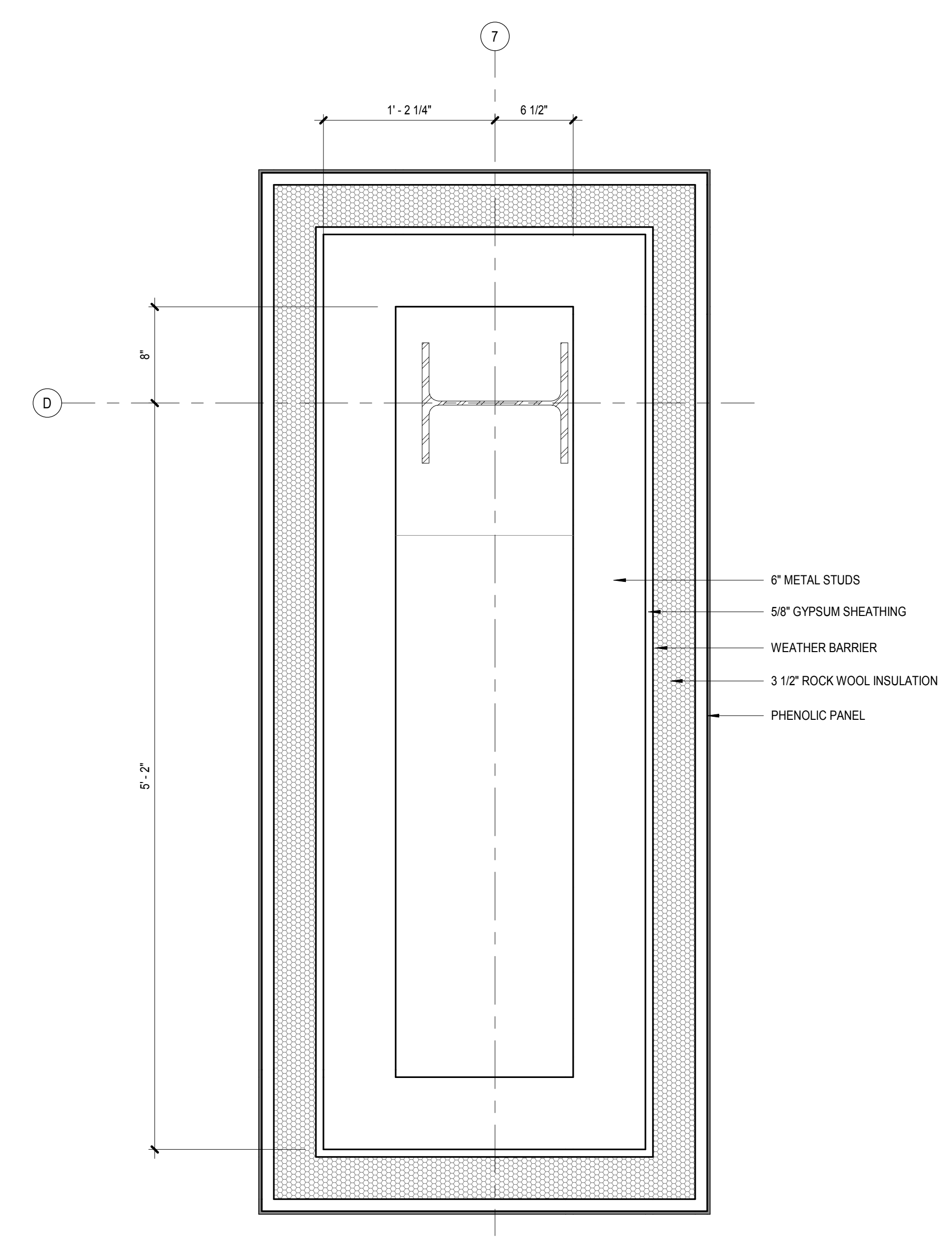
5 PLAN DETAIL
1 1/2" = 1'-0"



1 PLAN DETAIL
1 1/2" = 1'-0"



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



7 PLAN DETAIL
1 1/2" = 1'-0"

8/20/2018 3:14:53 PM



PORTER COUNTY ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368

DAVID L. MCCLOSKEY
REGISTERED
No. AR10700109
STATE OF INDIANA
Professional Engineer
David L. McCloskey

CERTIFIED BY

ISSUANCE INDEX

DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE

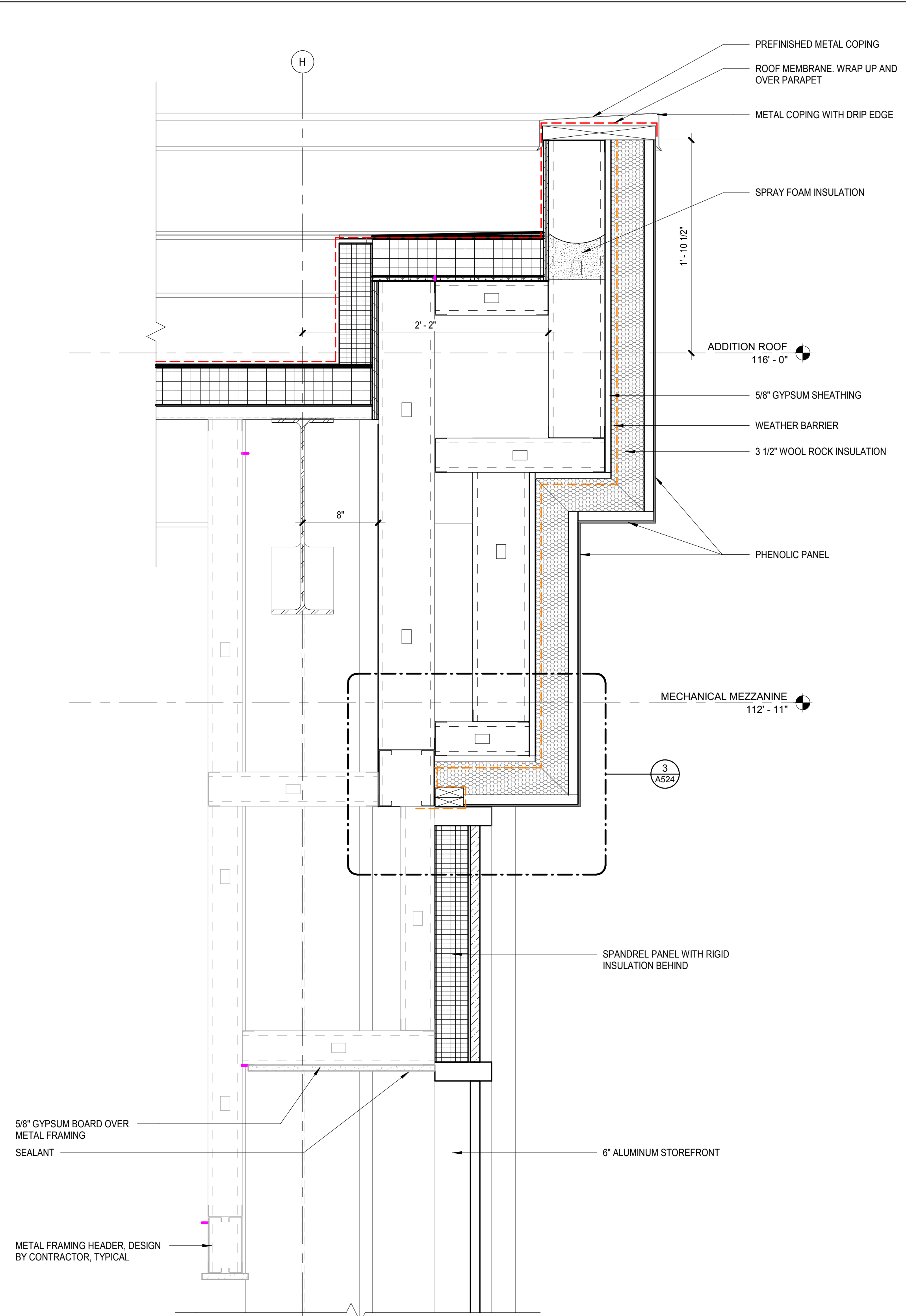
NO.	DESCRIPTION	DATE

Project Number 2017.01279

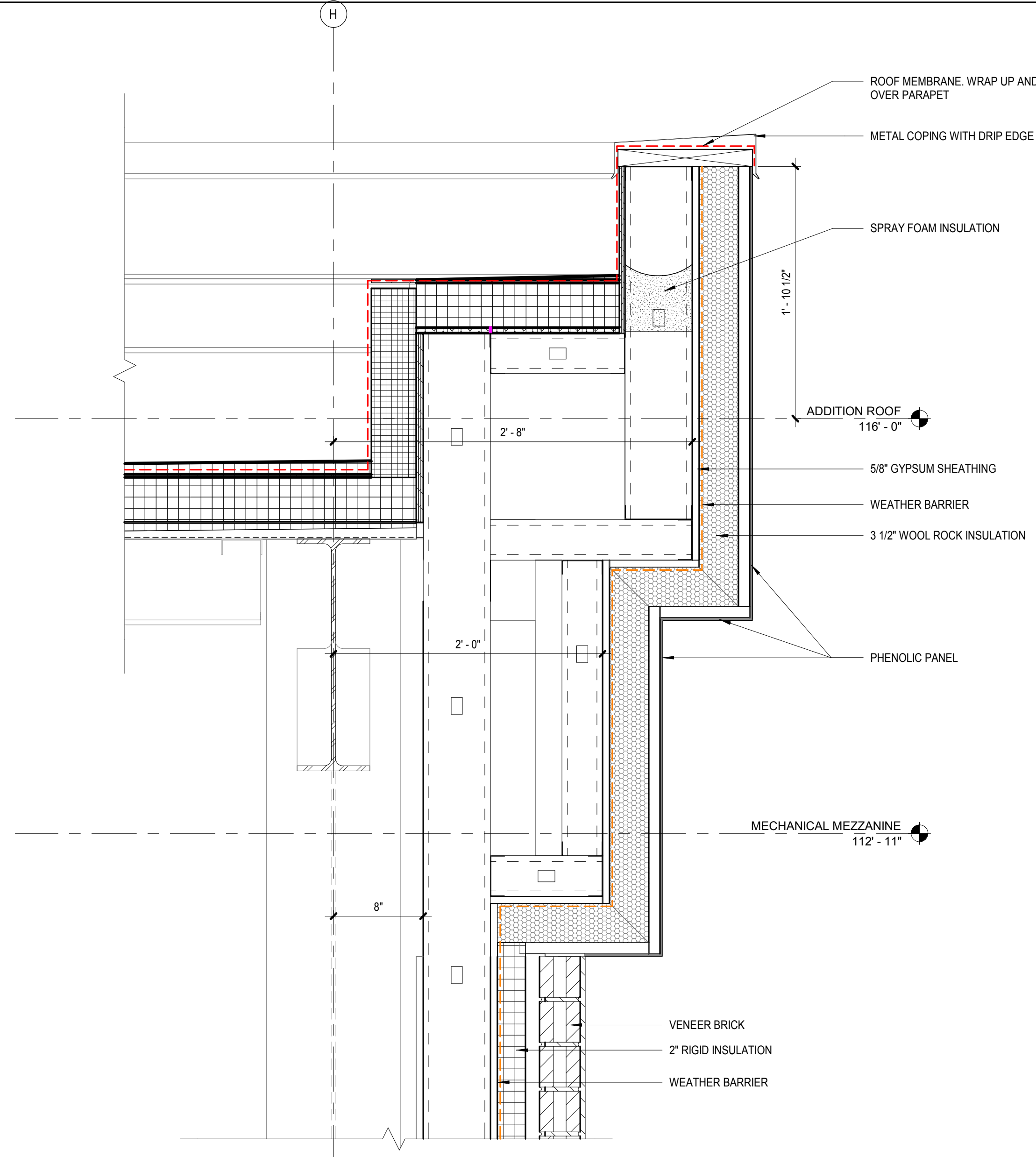
SECTION DETAILS

A521

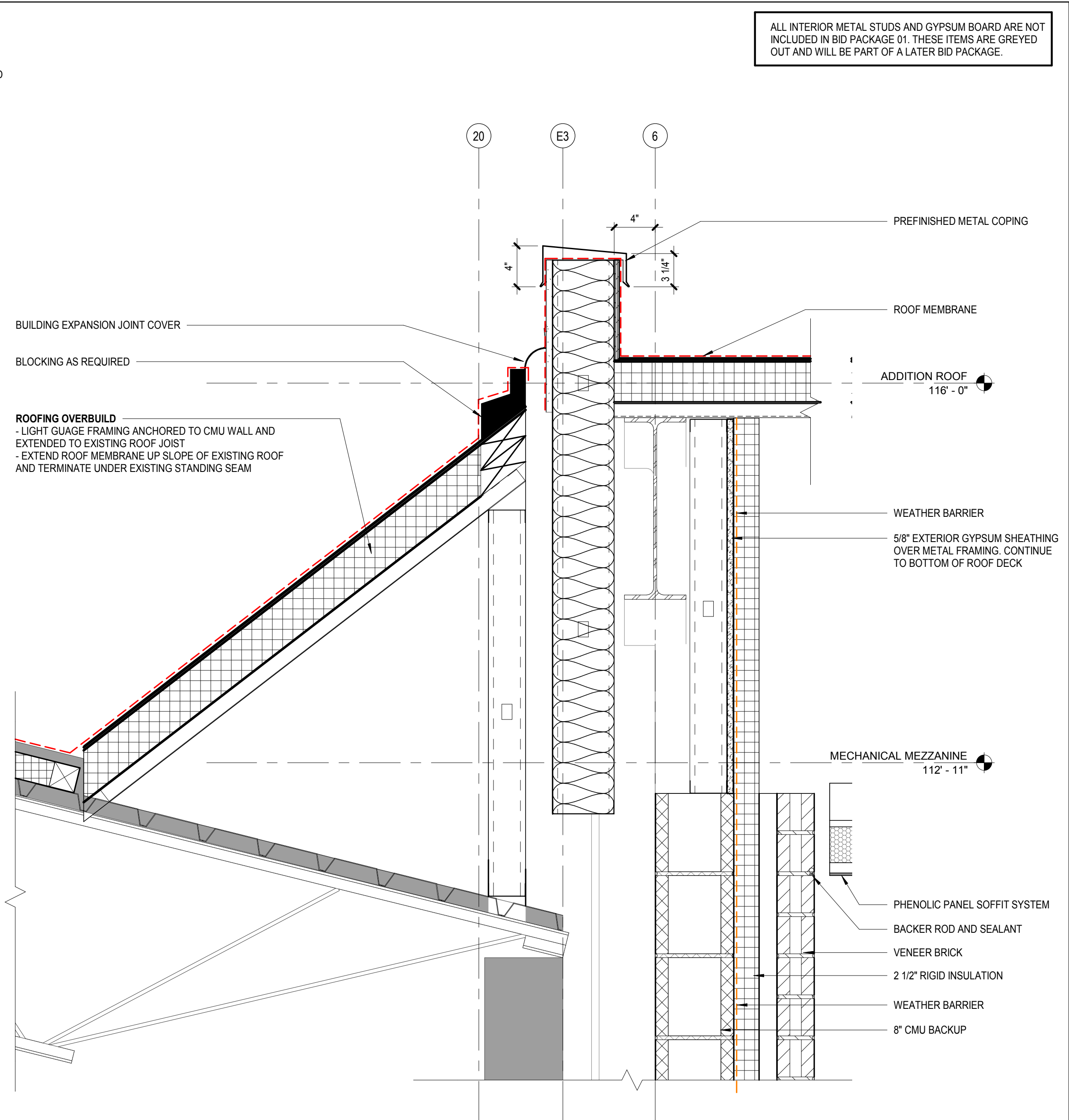
ALL INTERIOR METAL STUDS AND GYPSUM BOARD ARE NOT INCLUDED IN BID PACKAGE 01. THESE ITEMS ARE GREYED OUT AND WILL BE PART OF A LATER BID PACKAGE.



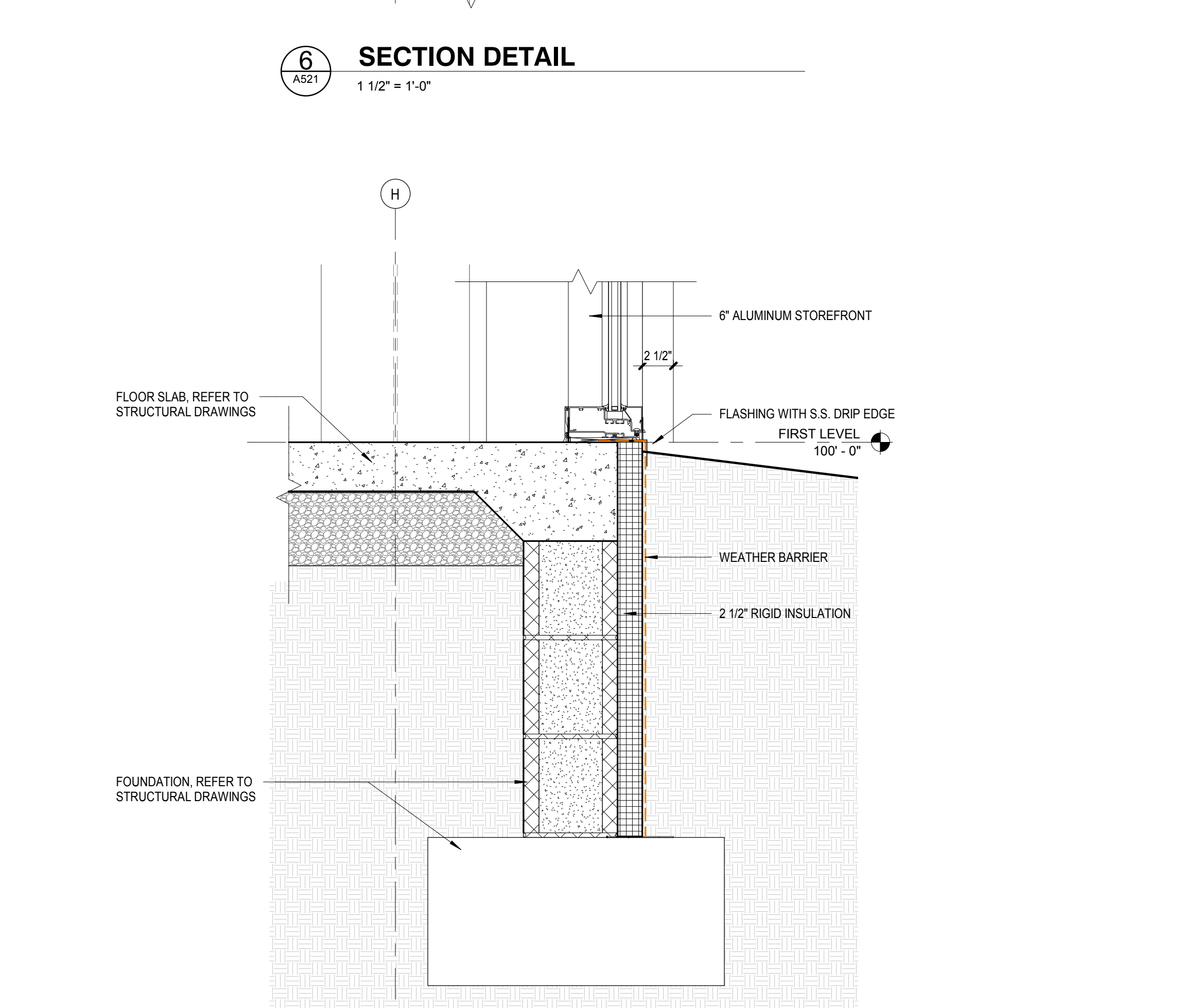
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1 1/2" = 1'-0"



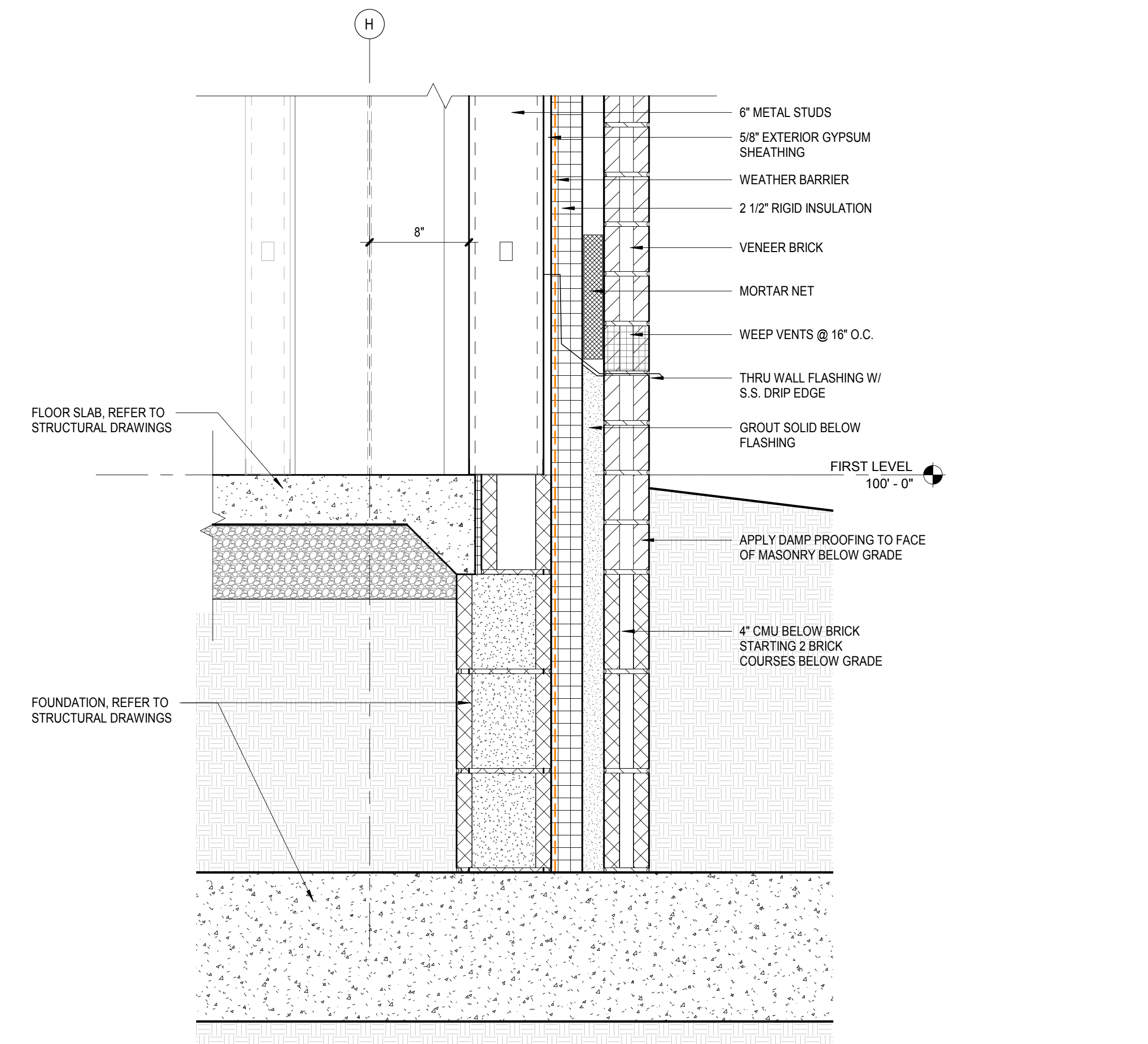
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1 1/2" = 1'-0"



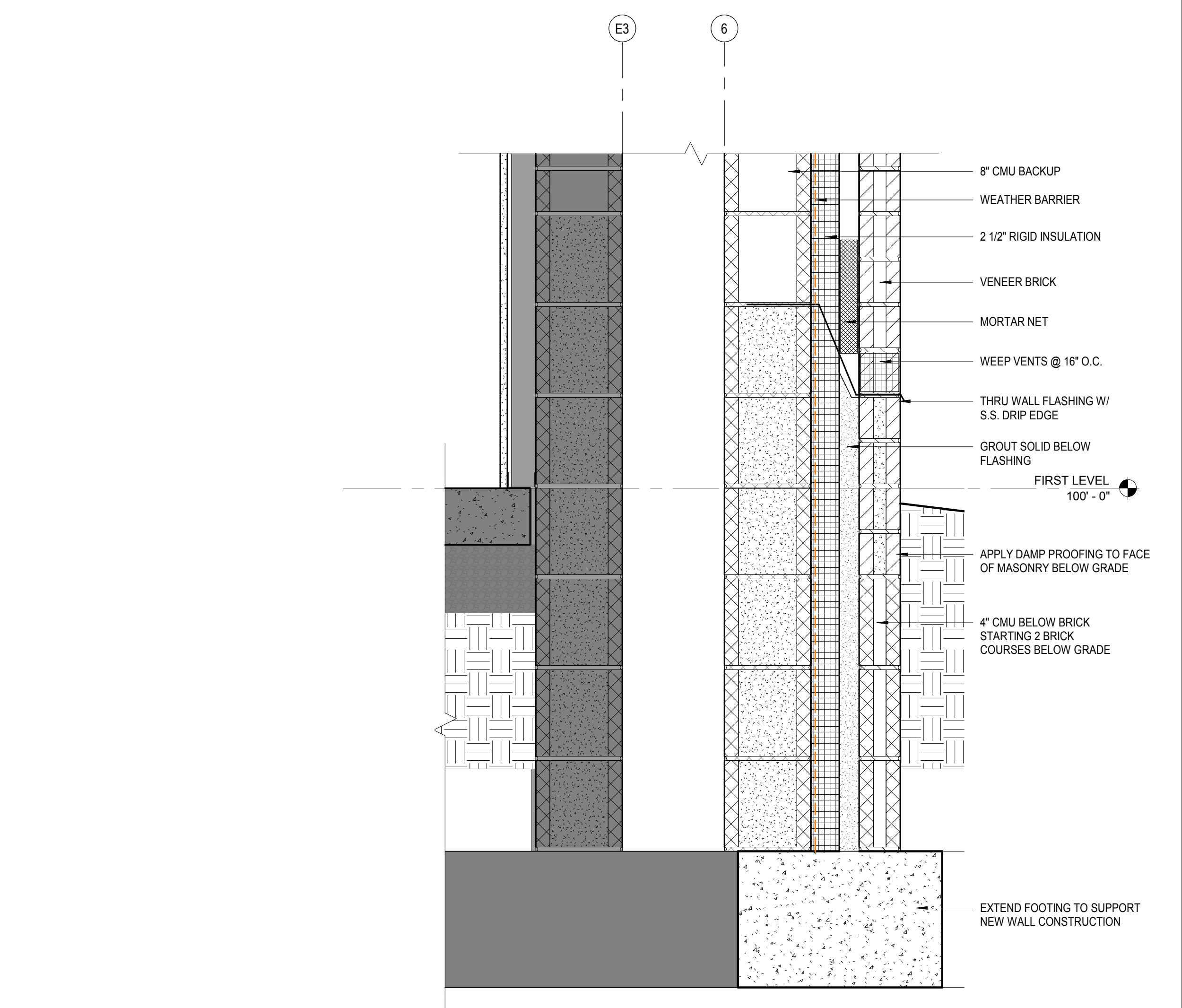
2 SECTION DETAIL
1 1/2" = 1'-0"



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



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



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

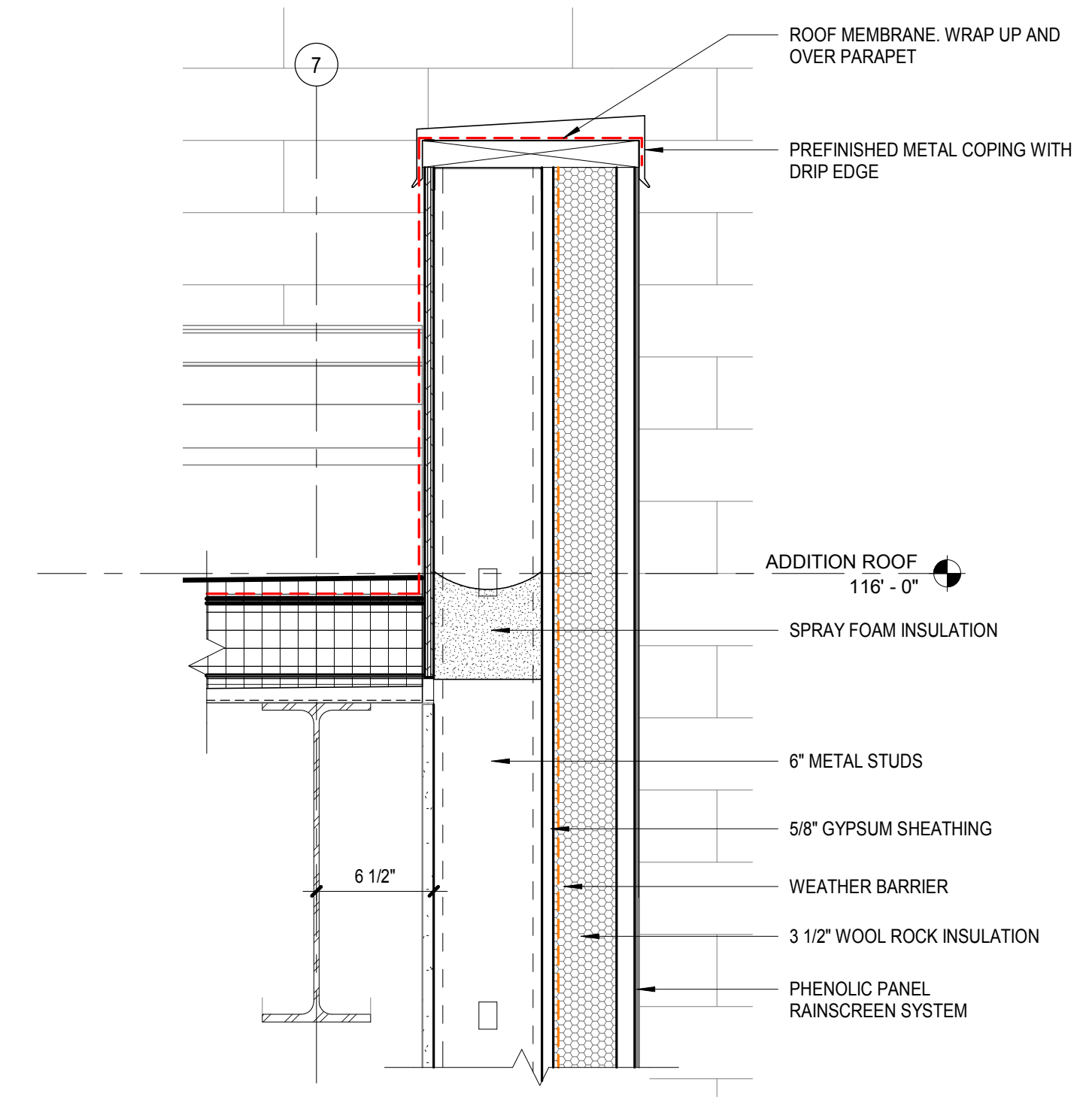
ISSUANCE INDEX

DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

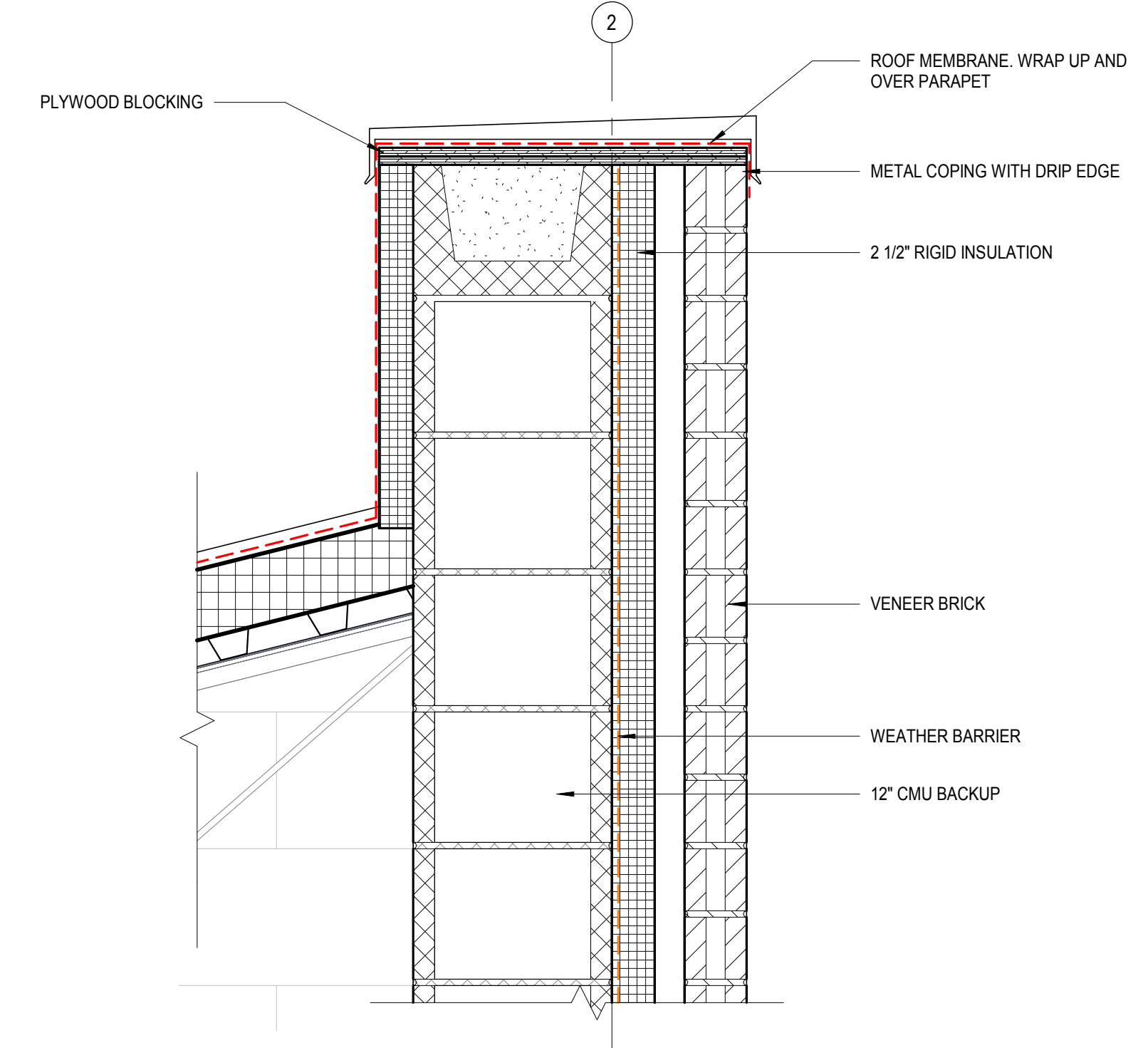
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

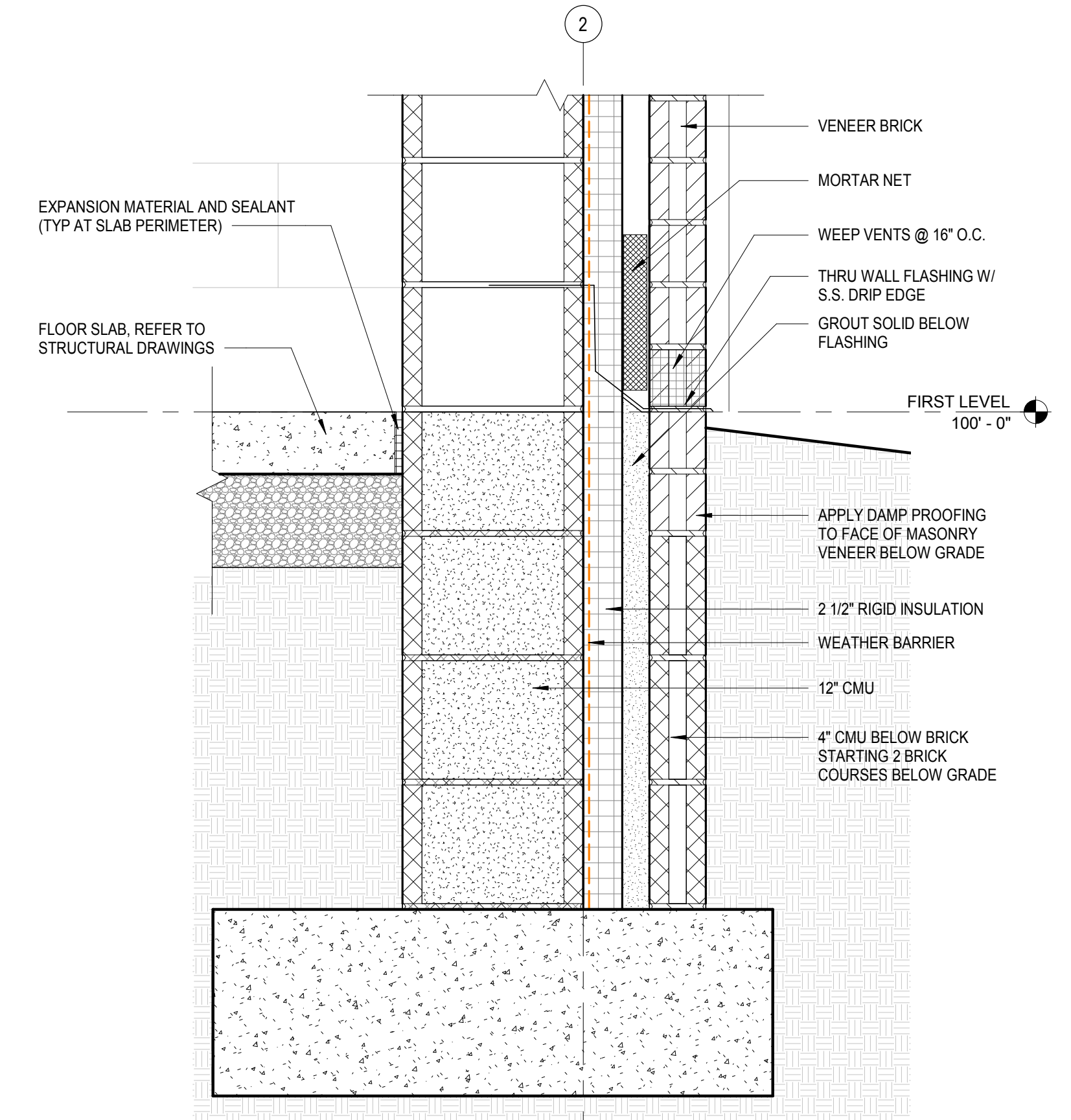
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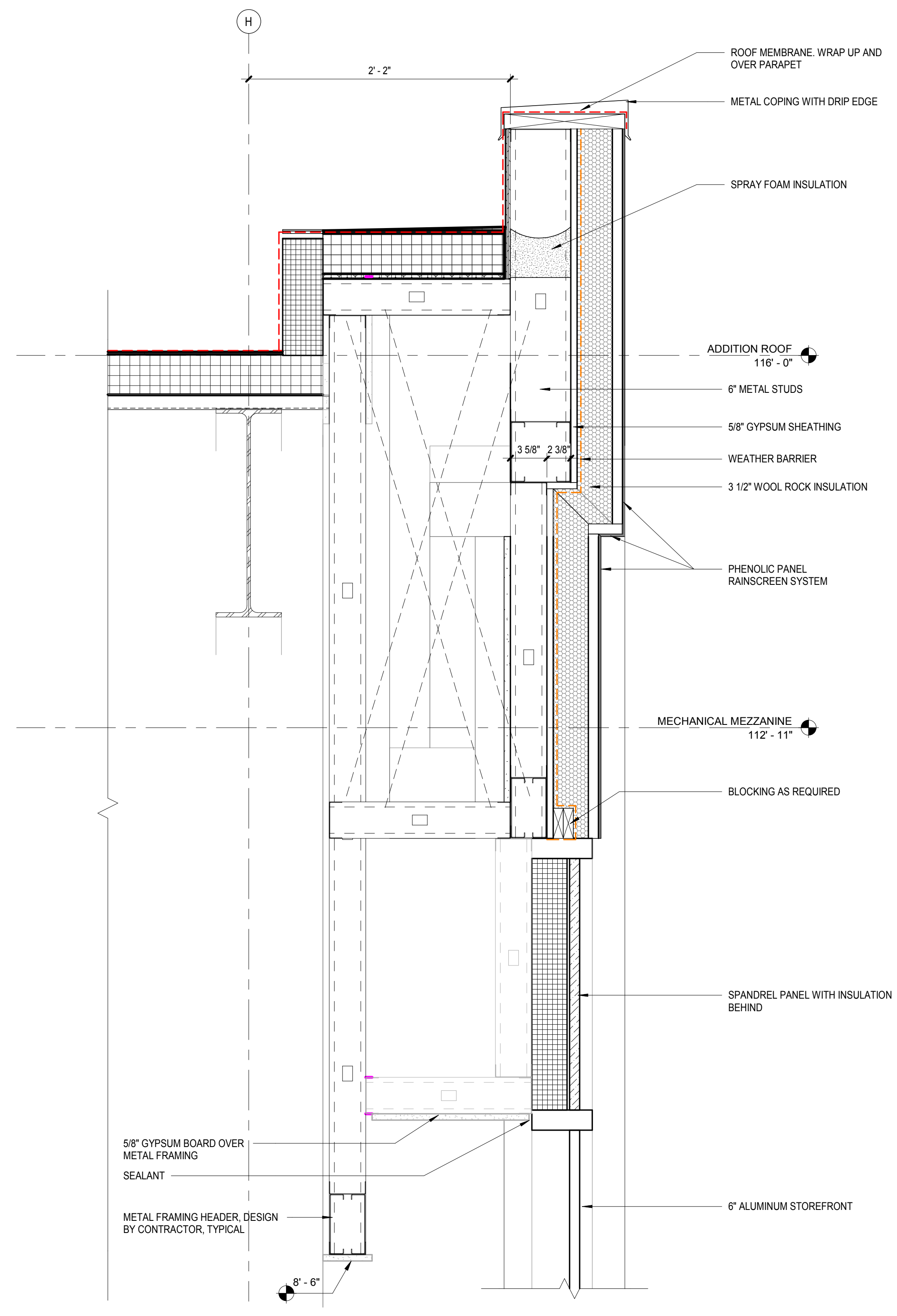
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1 1/2" = 1'-0"



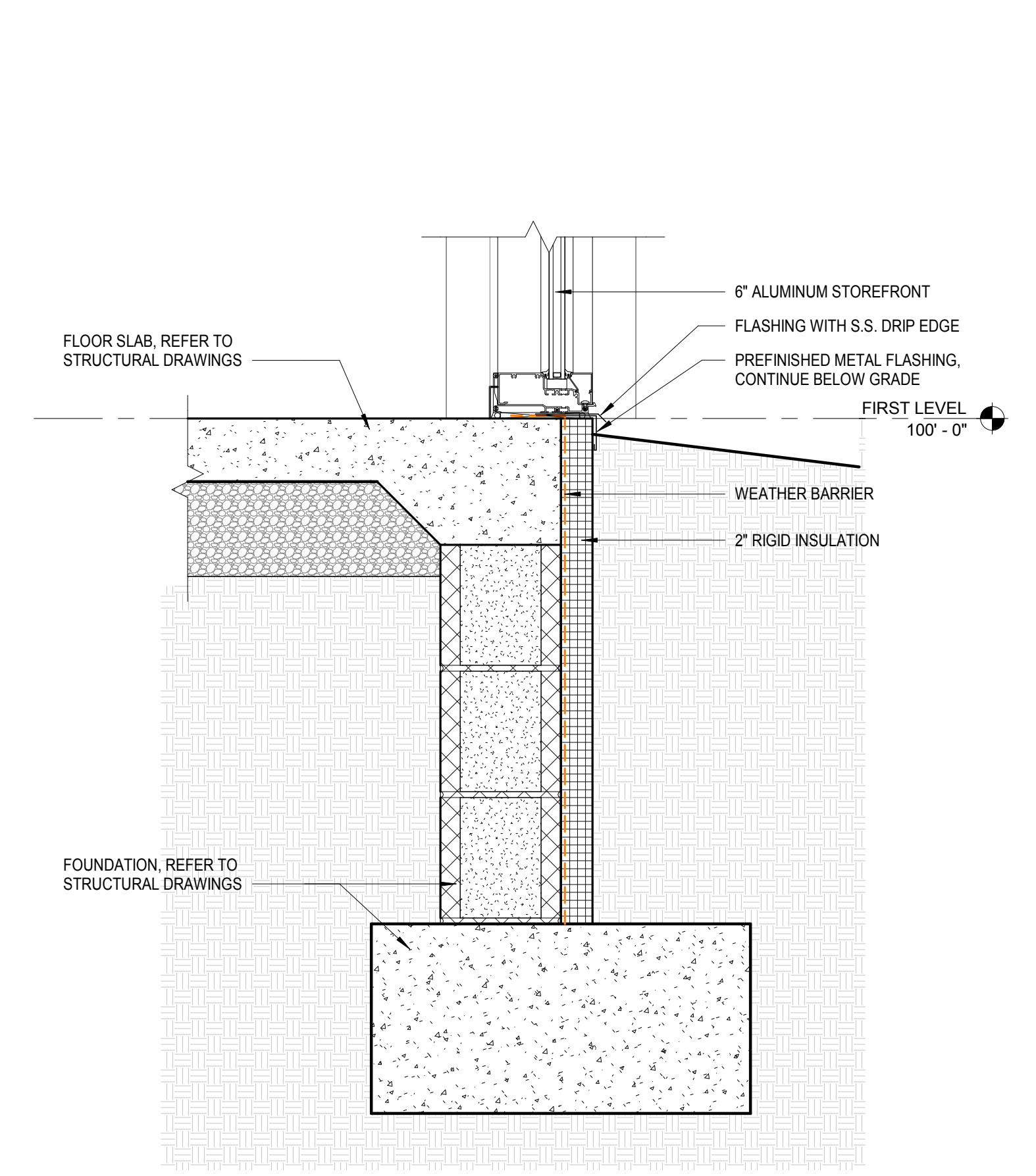
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1 1/2" = 1'-0"



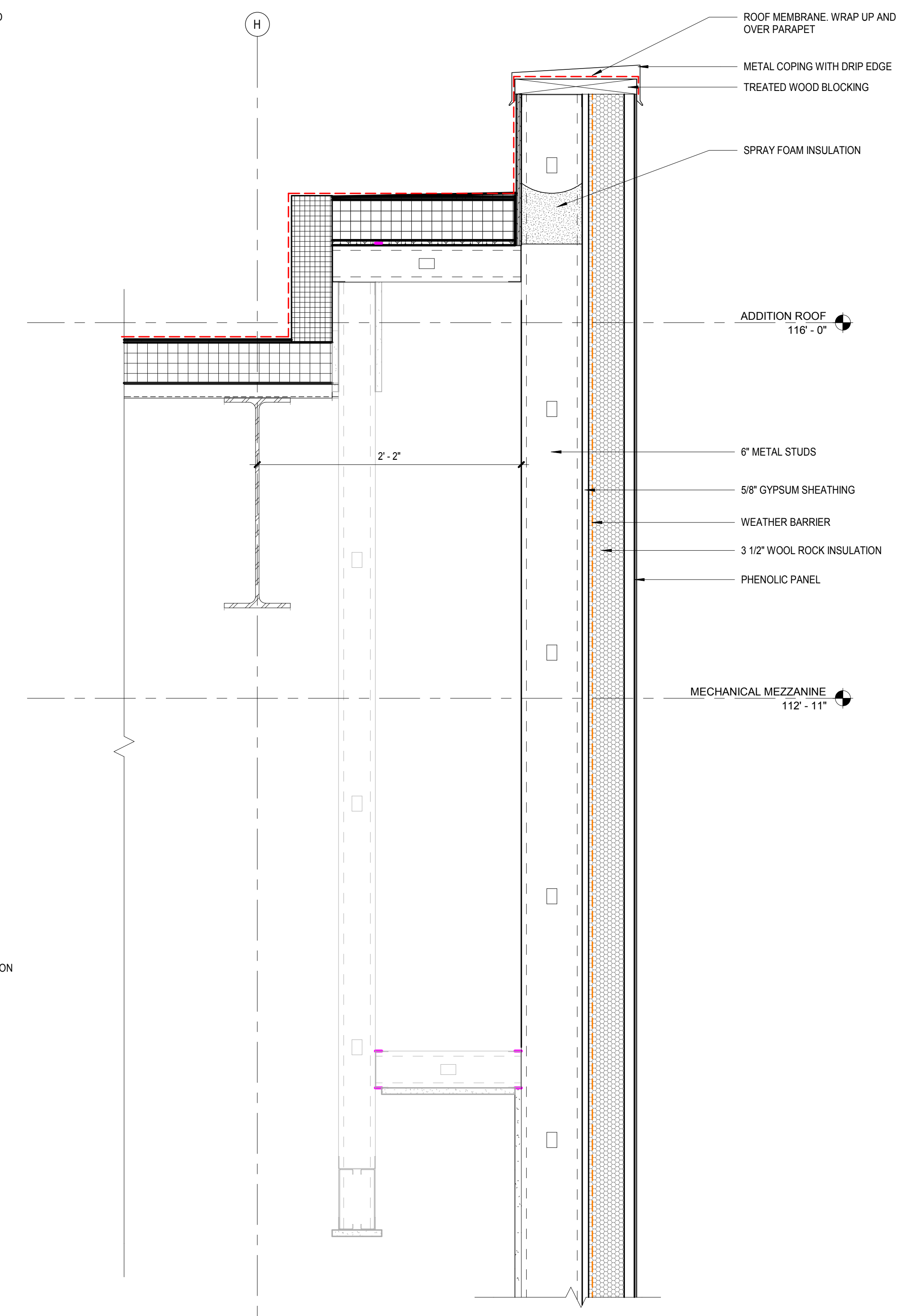
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1 1/2" = 1'-0"



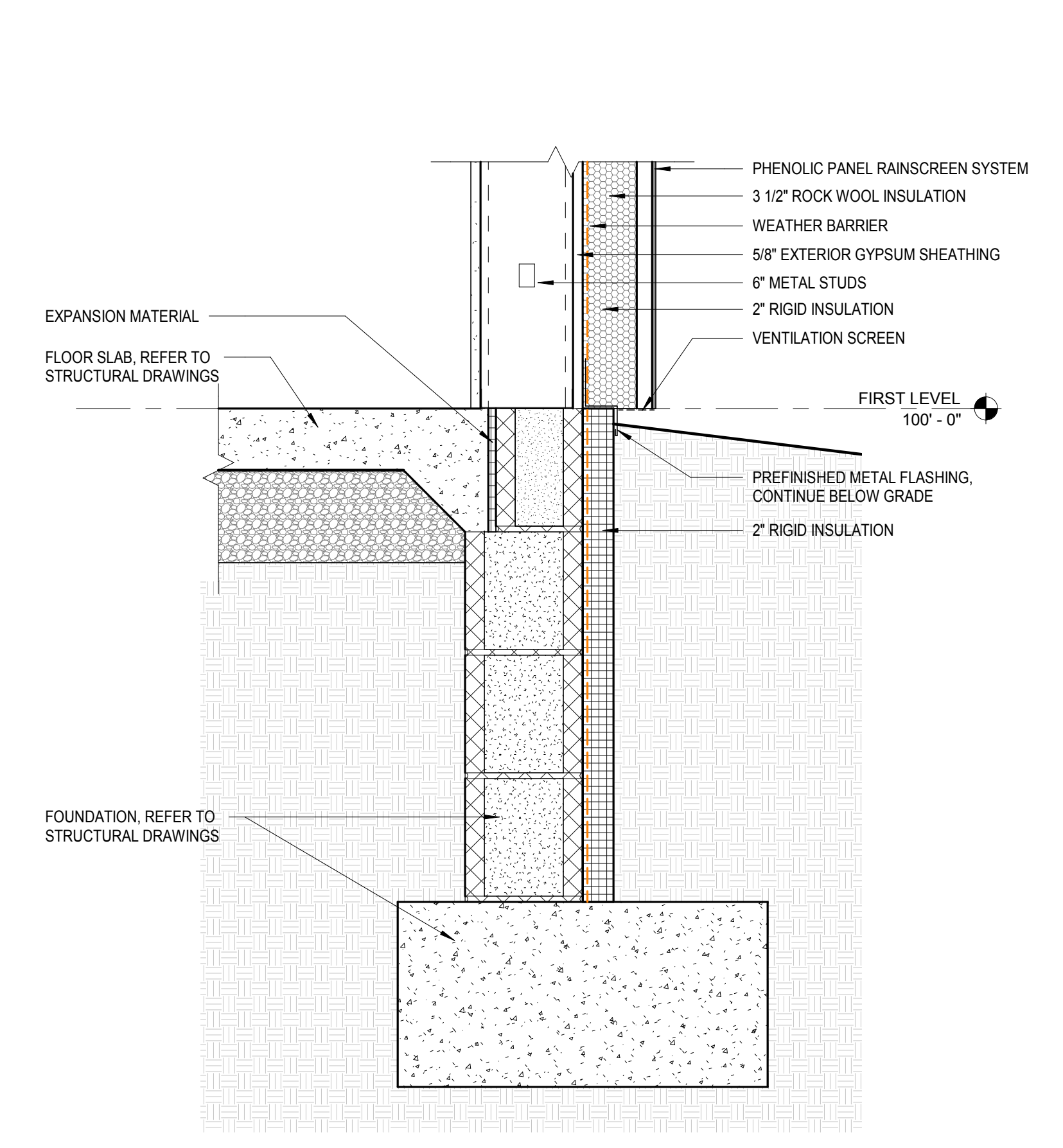
SECTION DETAIL
1 1/2" = 1'-0"



SECTION DETAIL
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SECTION DETAIL
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DANIEL L. McCLOSKEY
REGISTERED ARCHITECT
No. AR10700109
STATE OF INDIANA
Daniel L. McCloskey

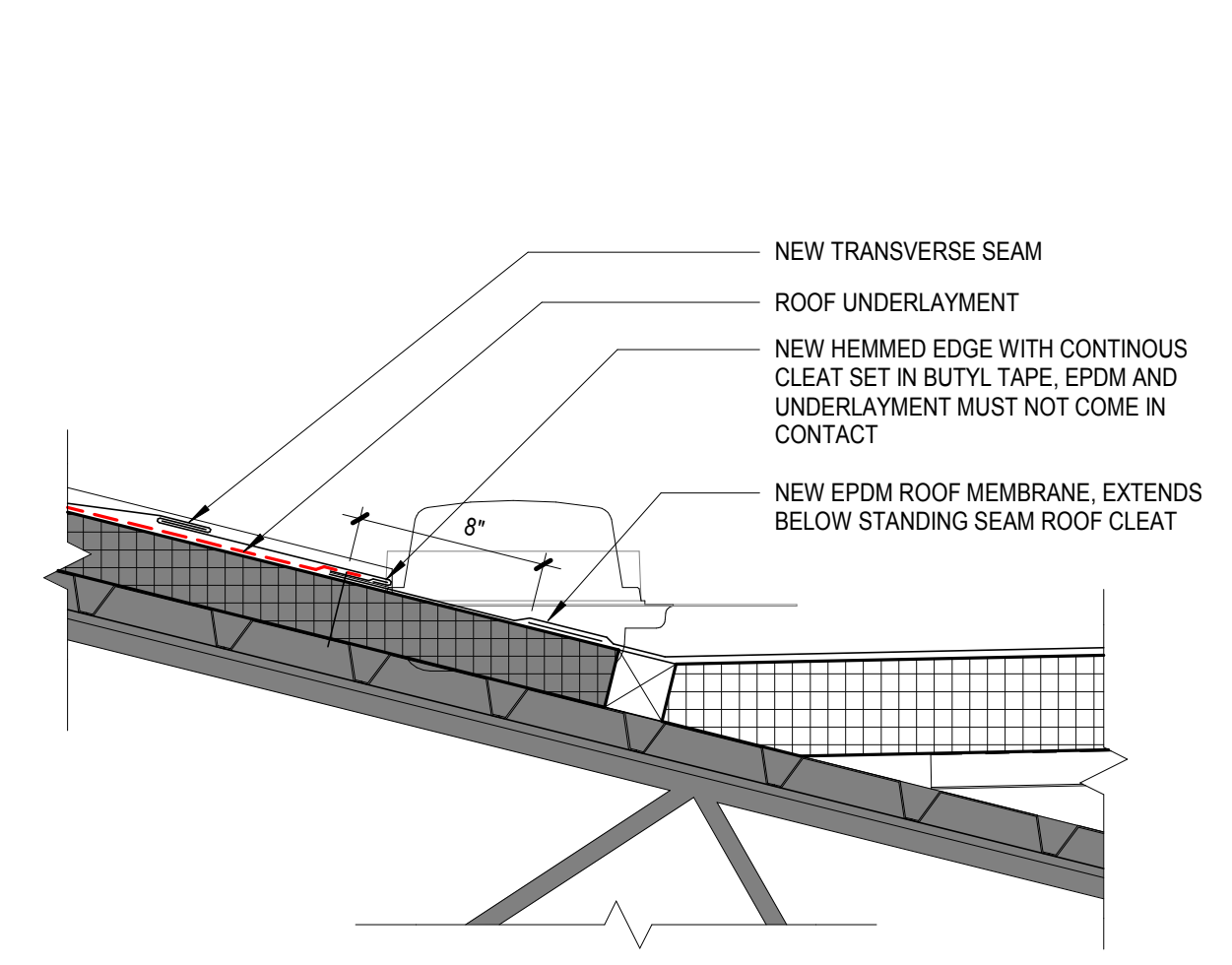
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ISSUANCE INDEX	
DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

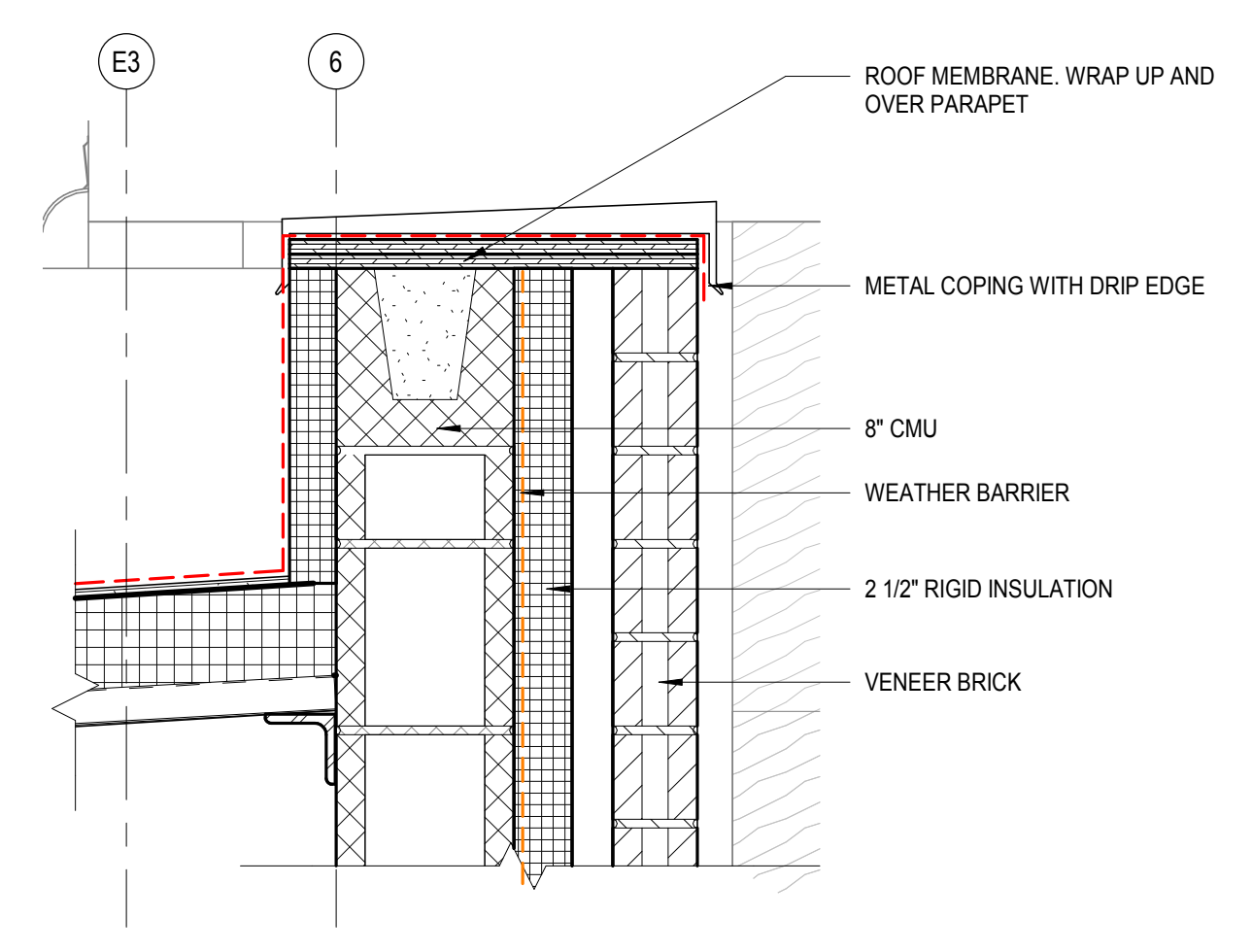
REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2017.01279

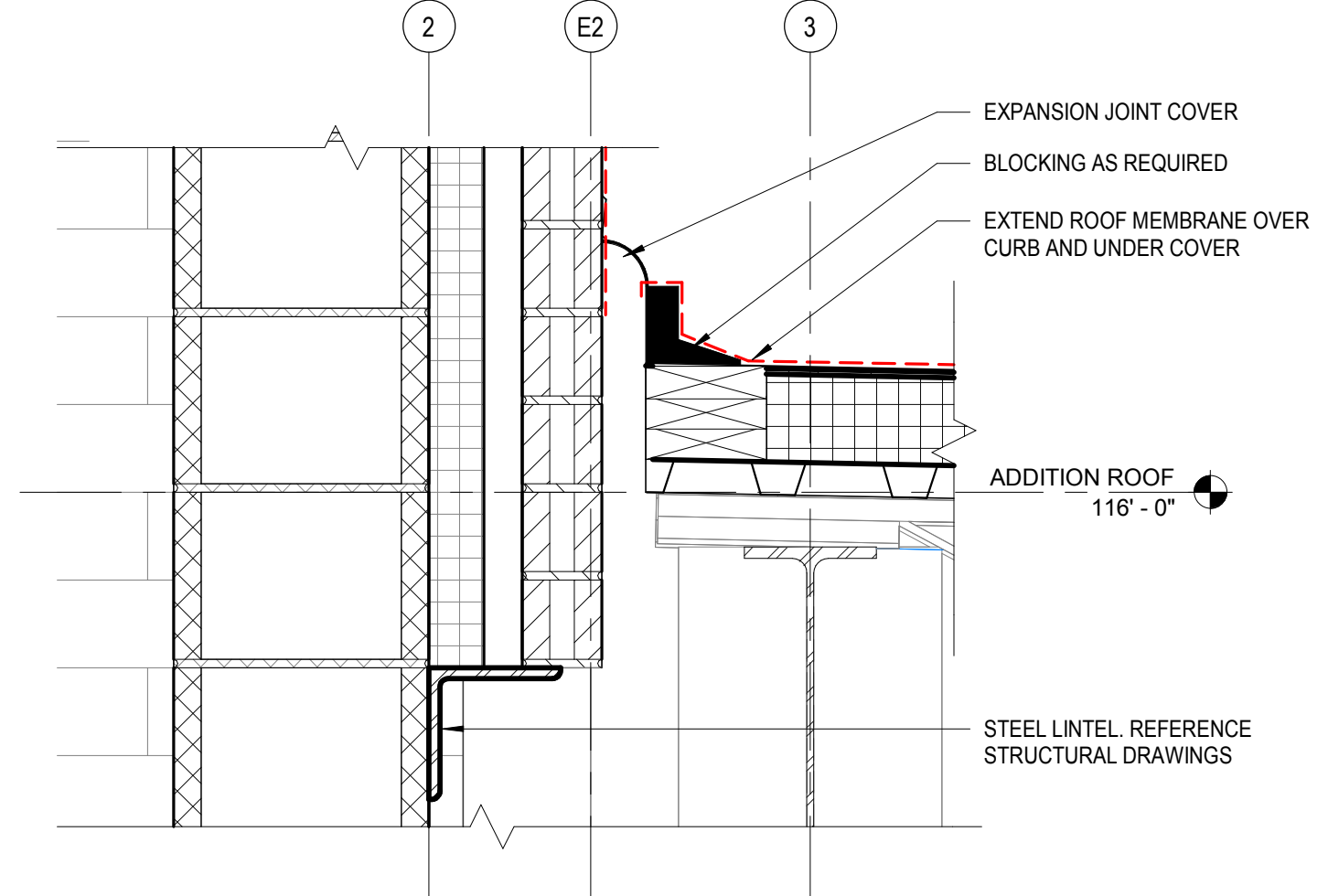
SECTION DETAILS



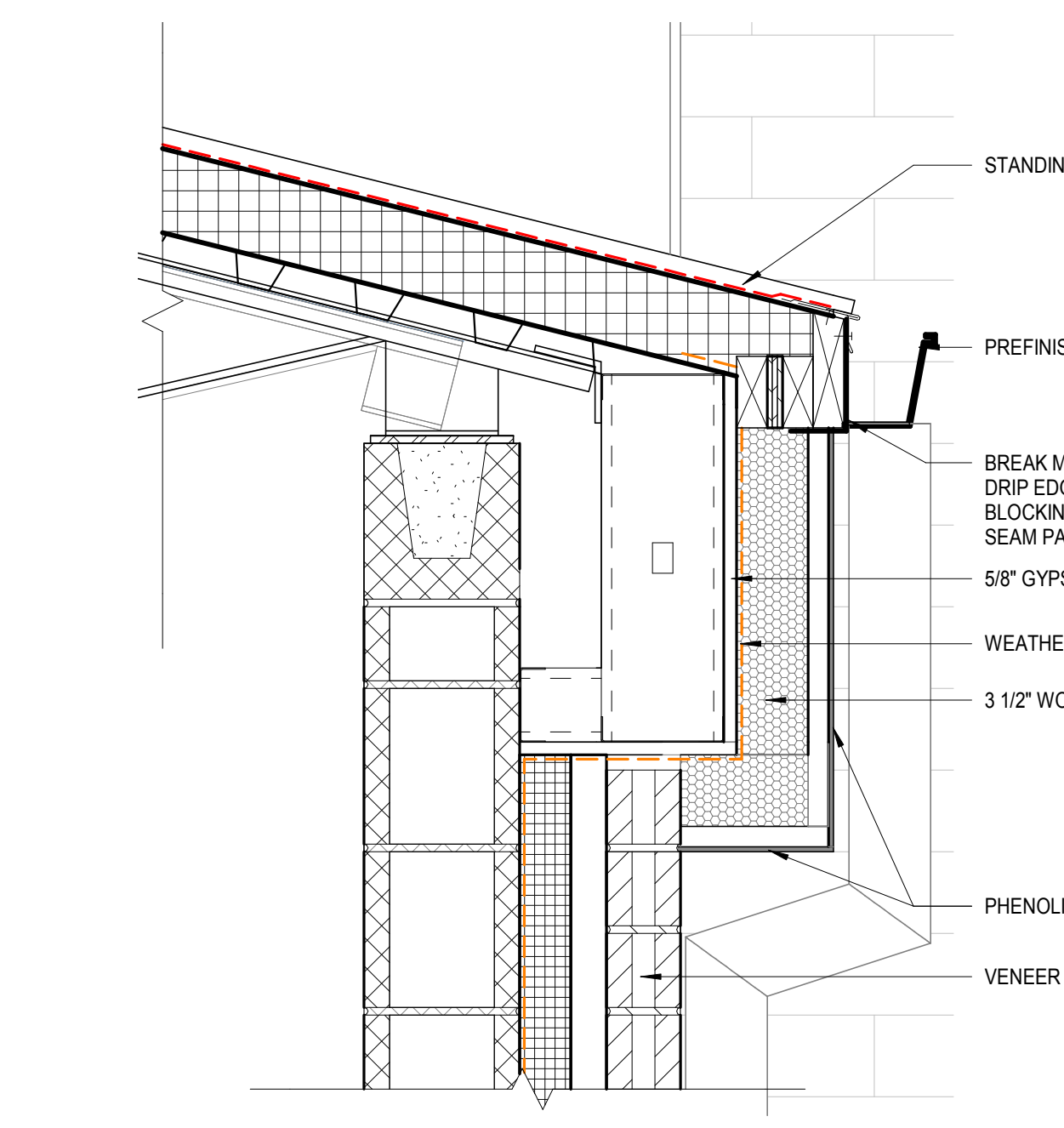
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1 1/2" = 1'-0"



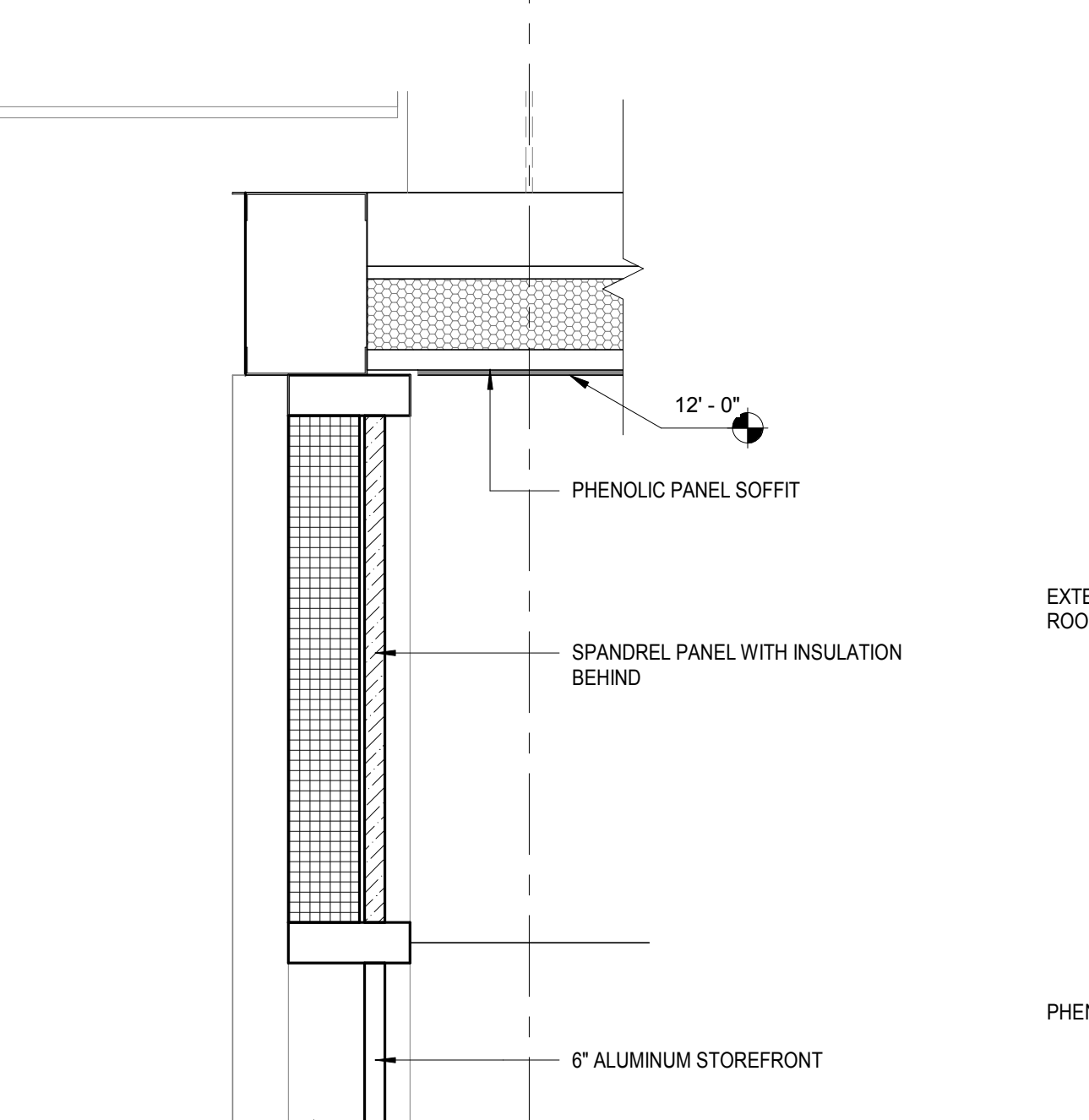
8 SECTION DETAIL
1 1/2" = 1'-0"



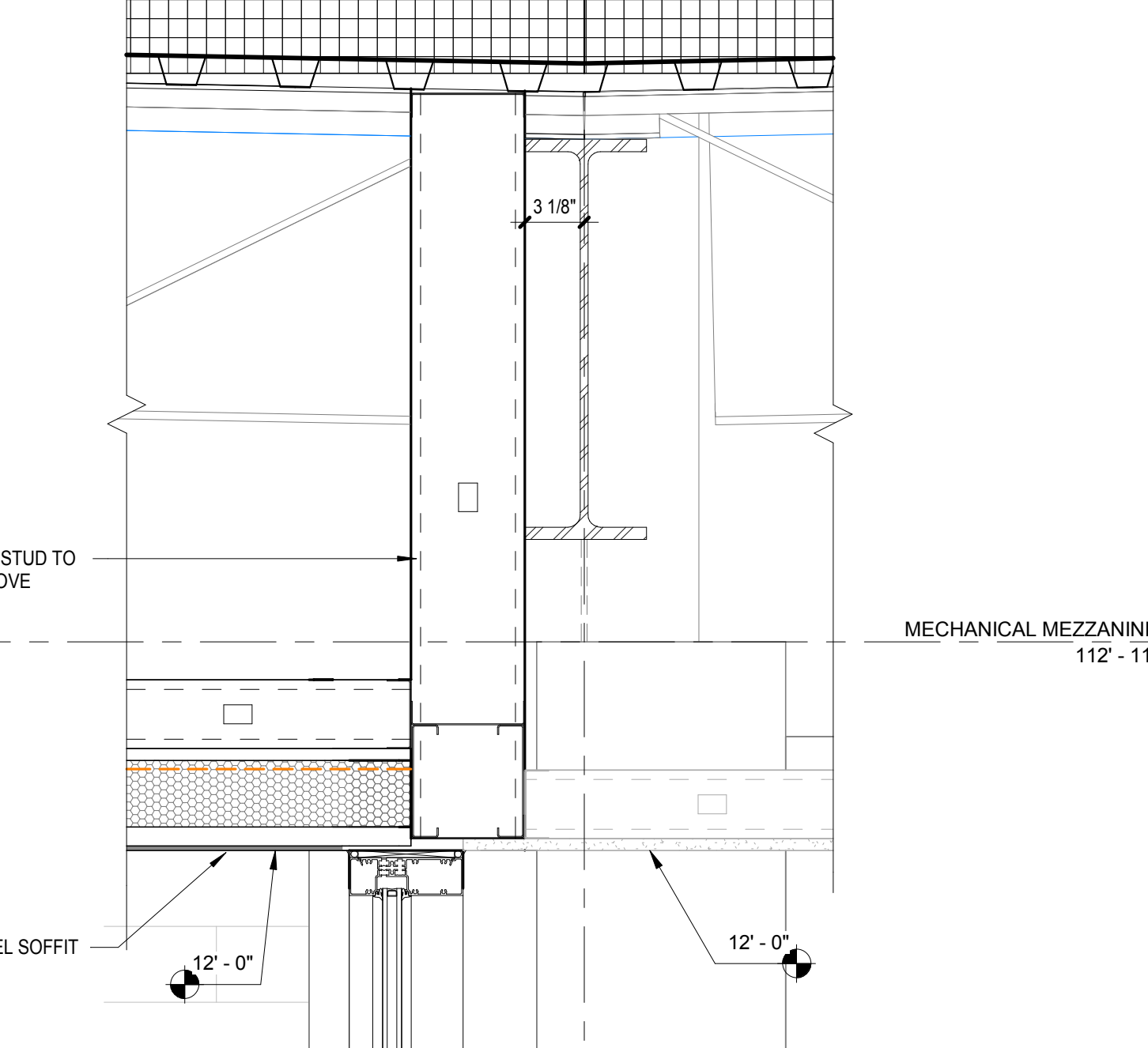
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1 1/2" = 1'-0"



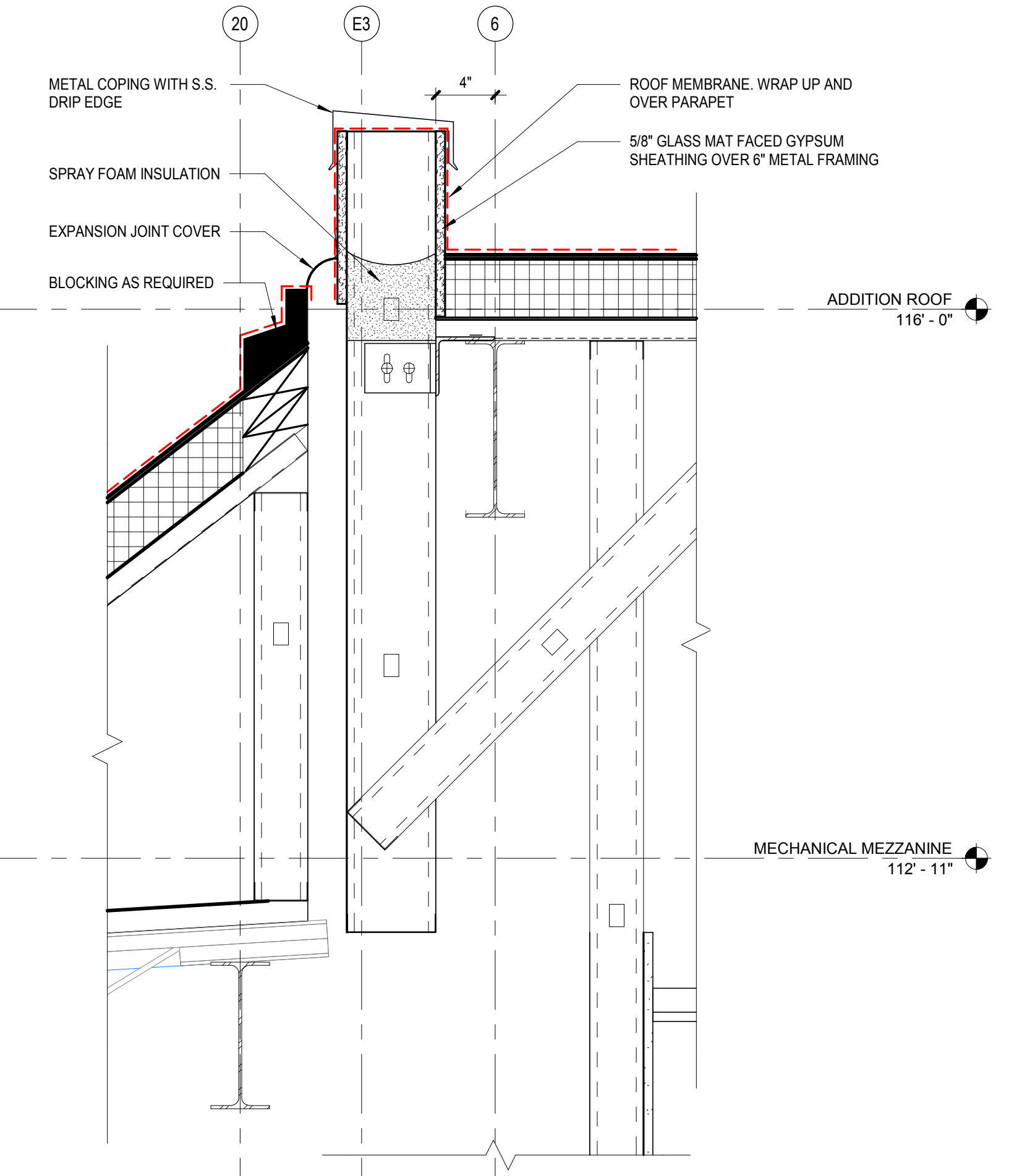
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1 1/2" = 1'-0"



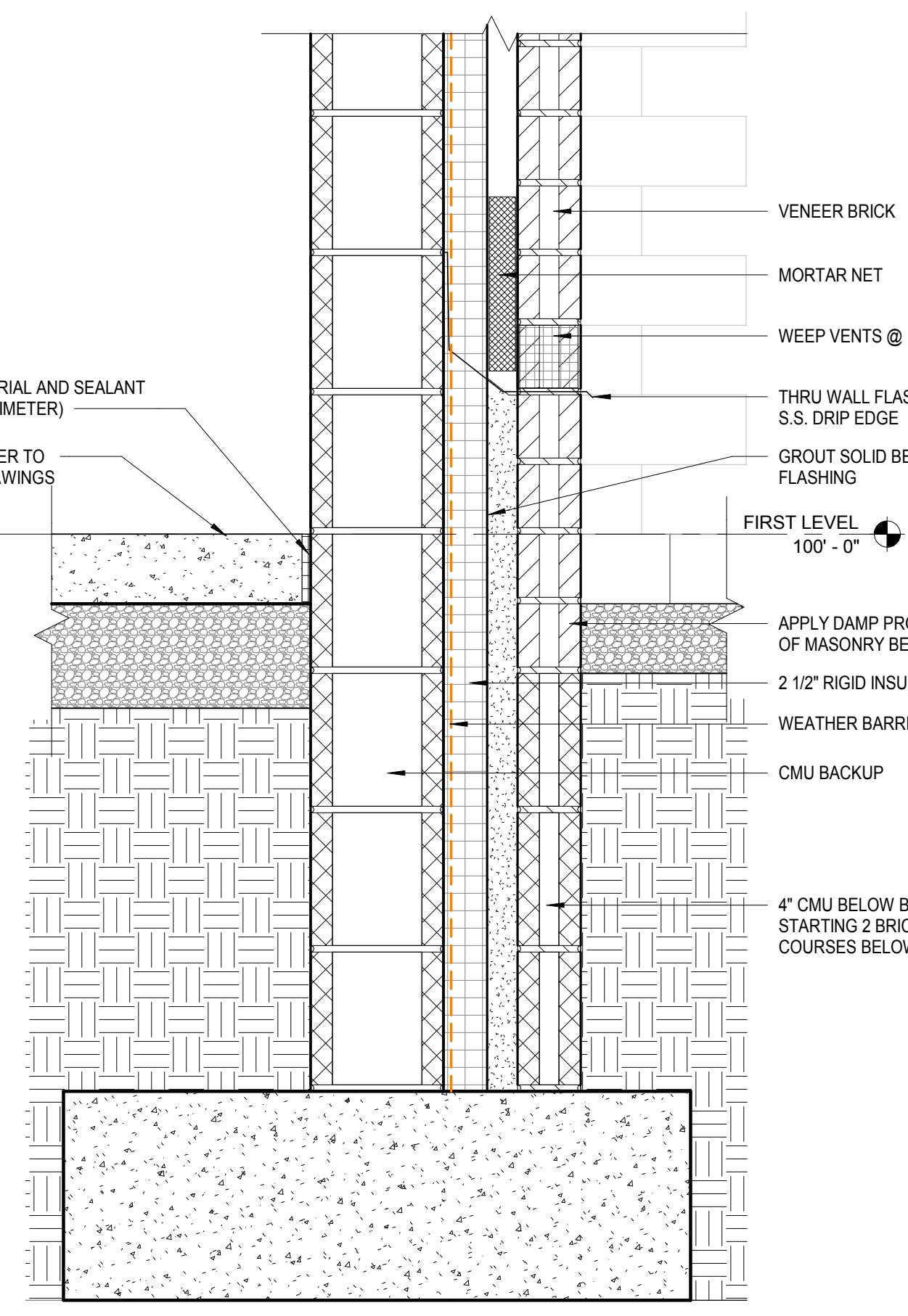
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1 1/2" = 1'-0"



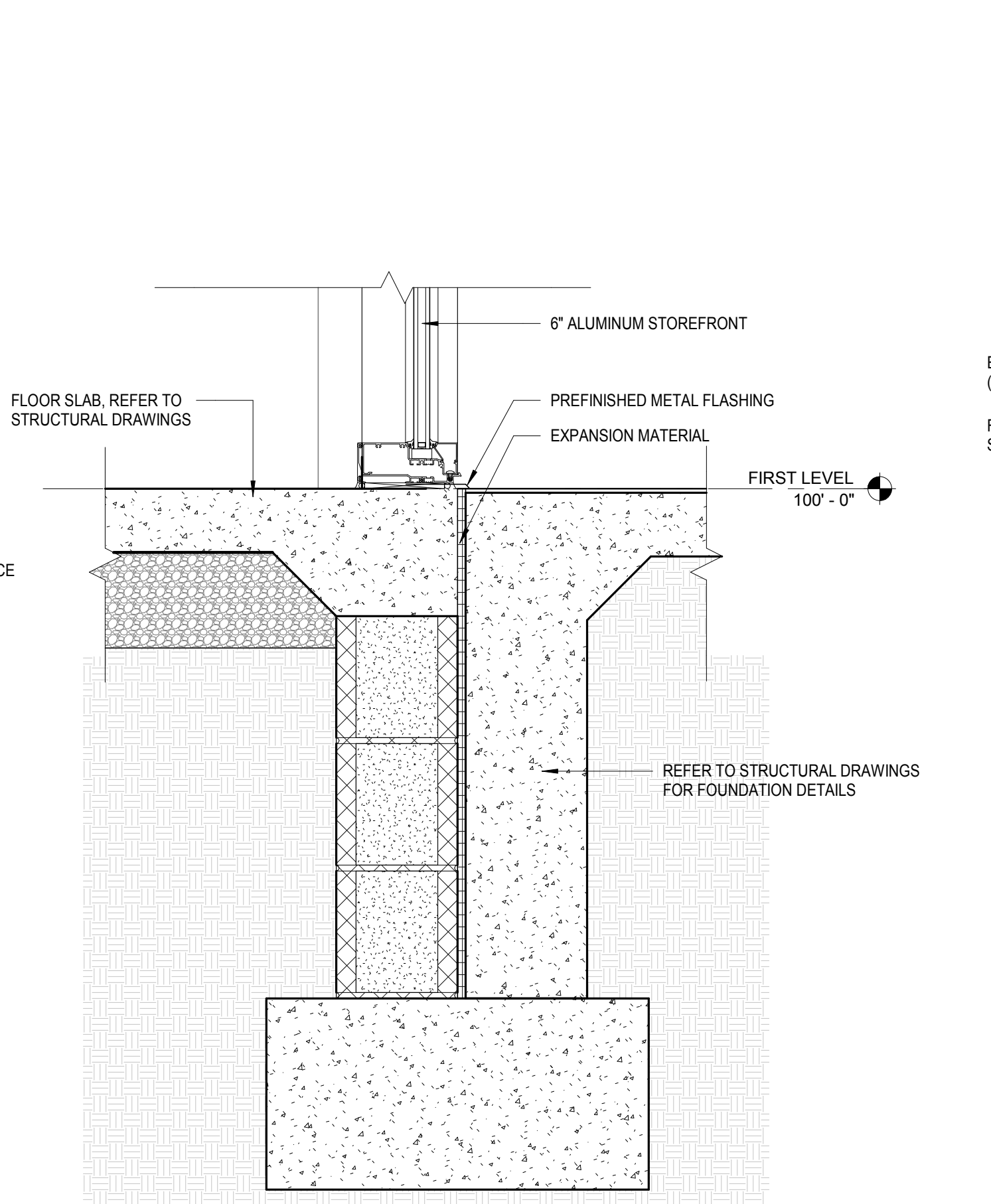
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1 1/2" = 1'-0"



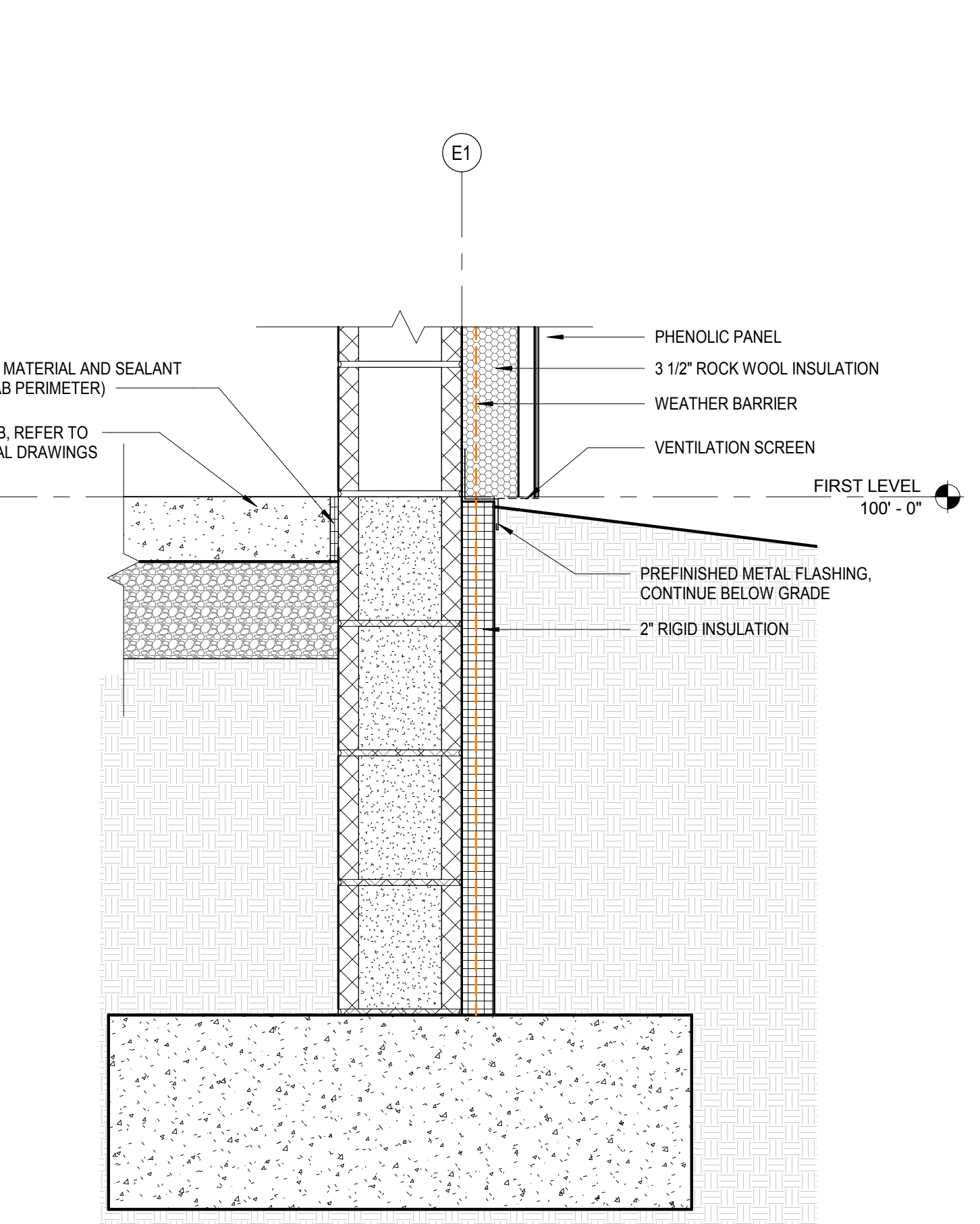
2 SECTION DETAIL
1 1/2" = 1'-0"



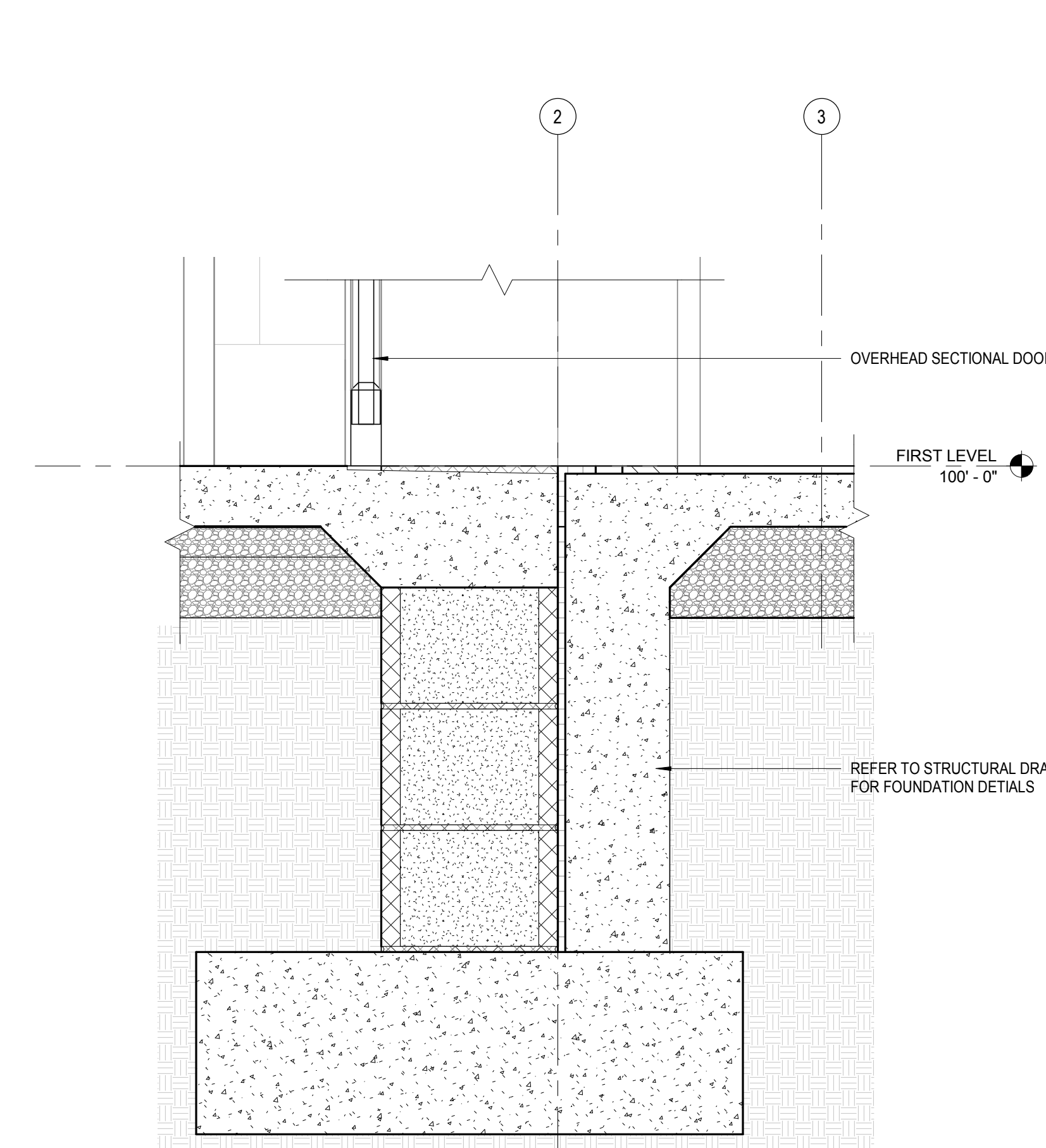
9 SECTION DETAIL
1 1/2" = 1'-0"



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



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



1 SECTION DETAIL
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PORTER COUNTY ANNEX

3560 WILLOWCREEK RD
PORTAGE, IN 46368

REGISTERED
No. AR10700109
STATE OF INDIANA
Professional Seal of Daniel L. McCloskey

CERTIFIED BY

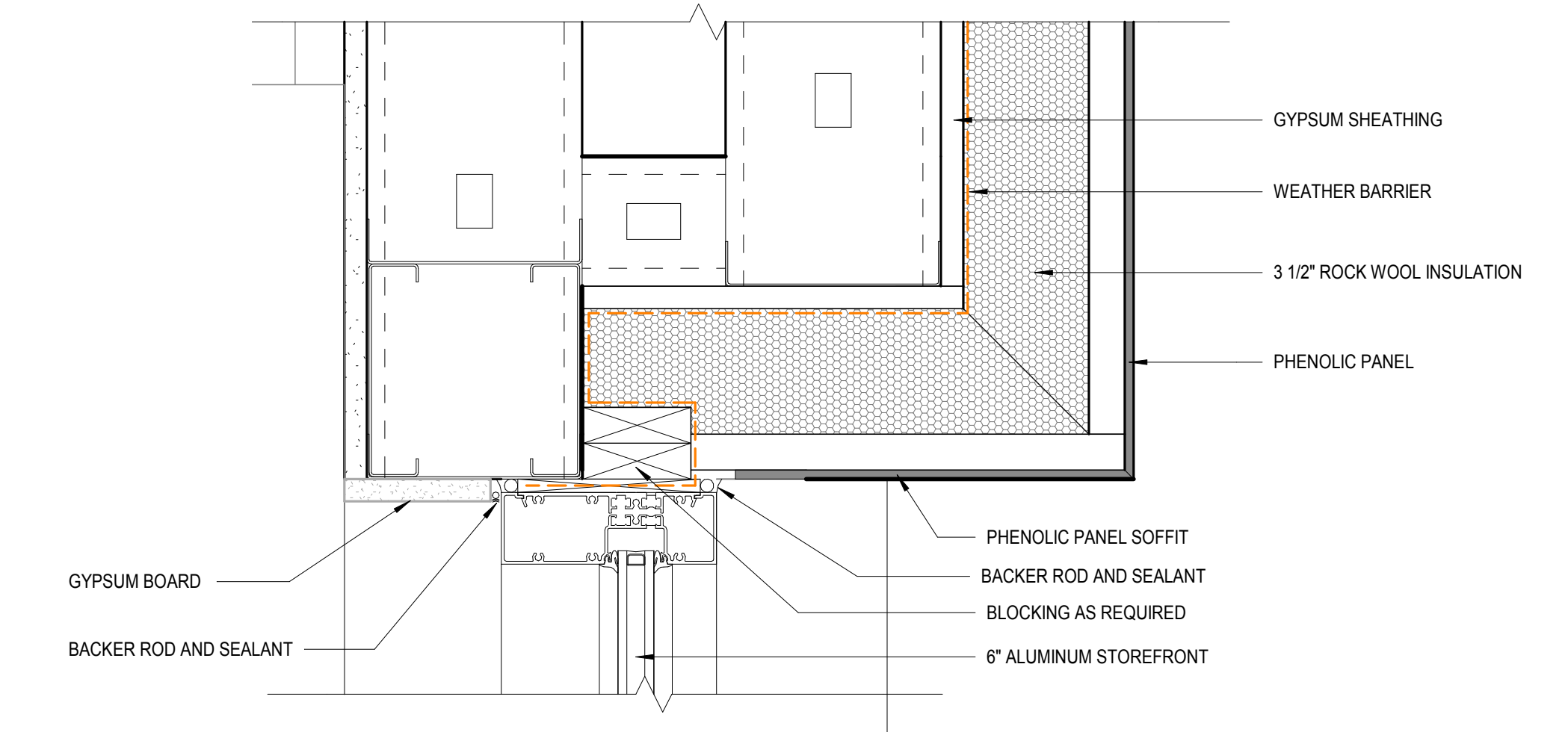
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DATE:	08.20.18
PROJECT PHASE:	100% CONSTRUCTION DOCUMENTS - BP1

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

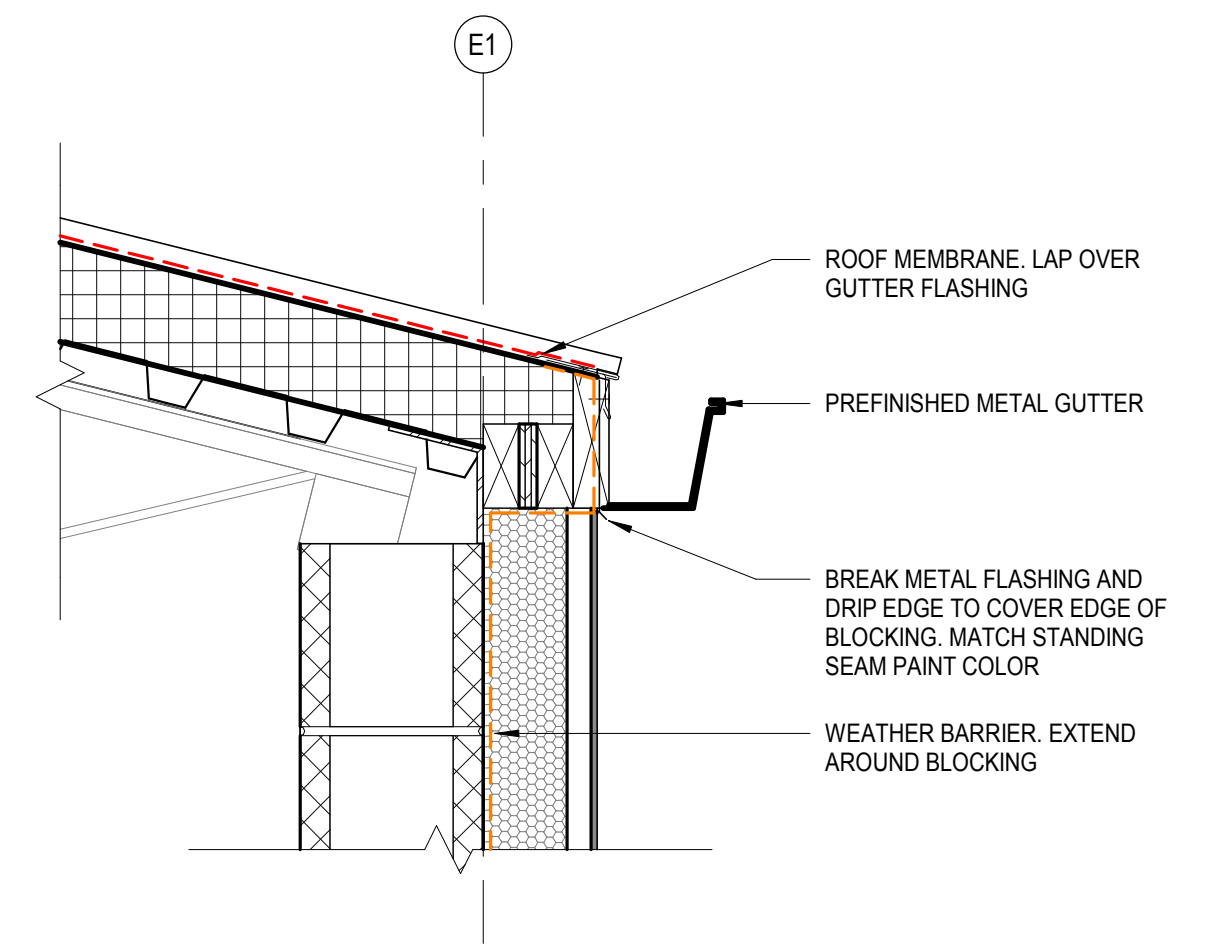
Project Number 2017.01279

SECTION DETAILS

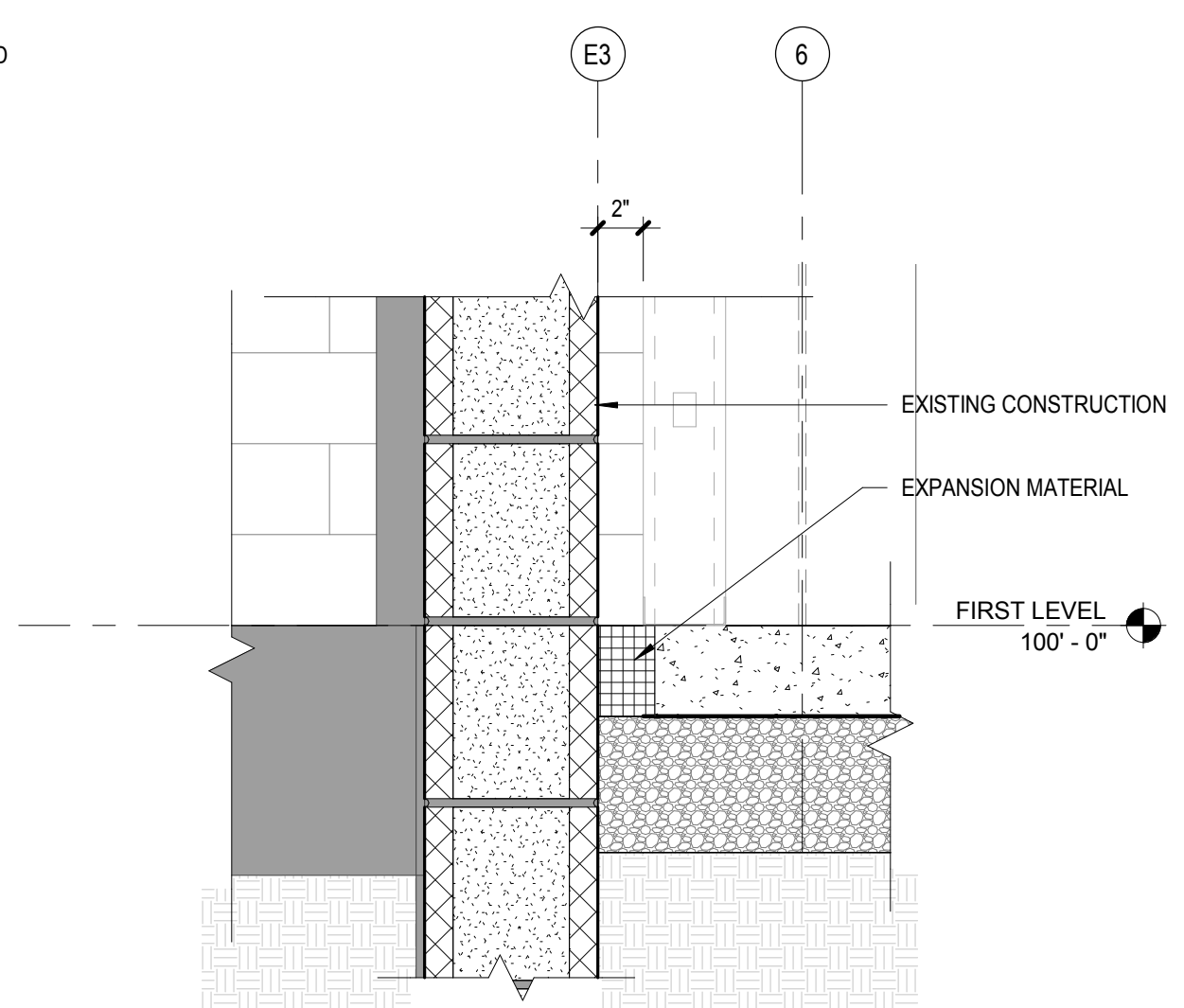
A524



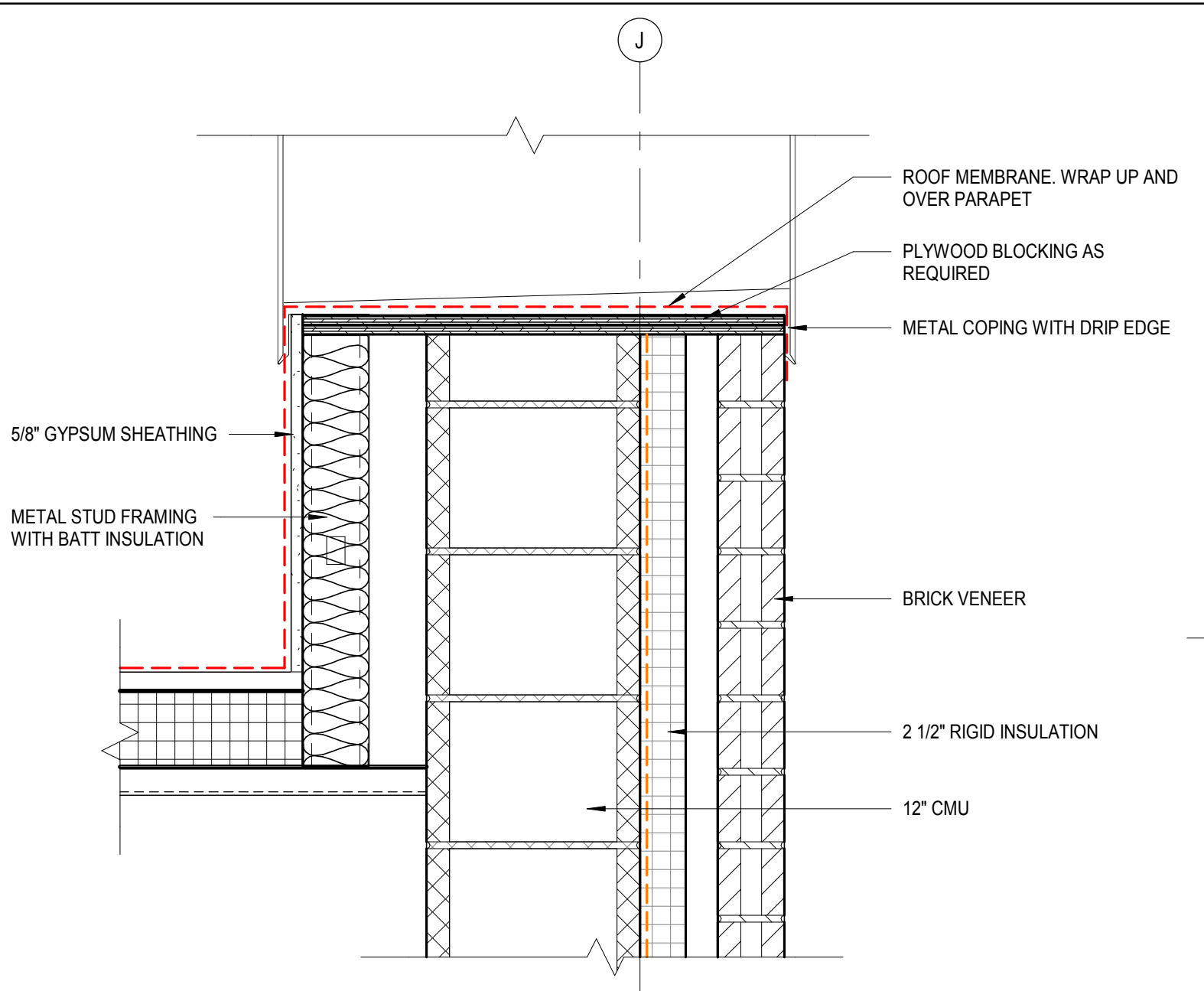
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3" = 1'-0"



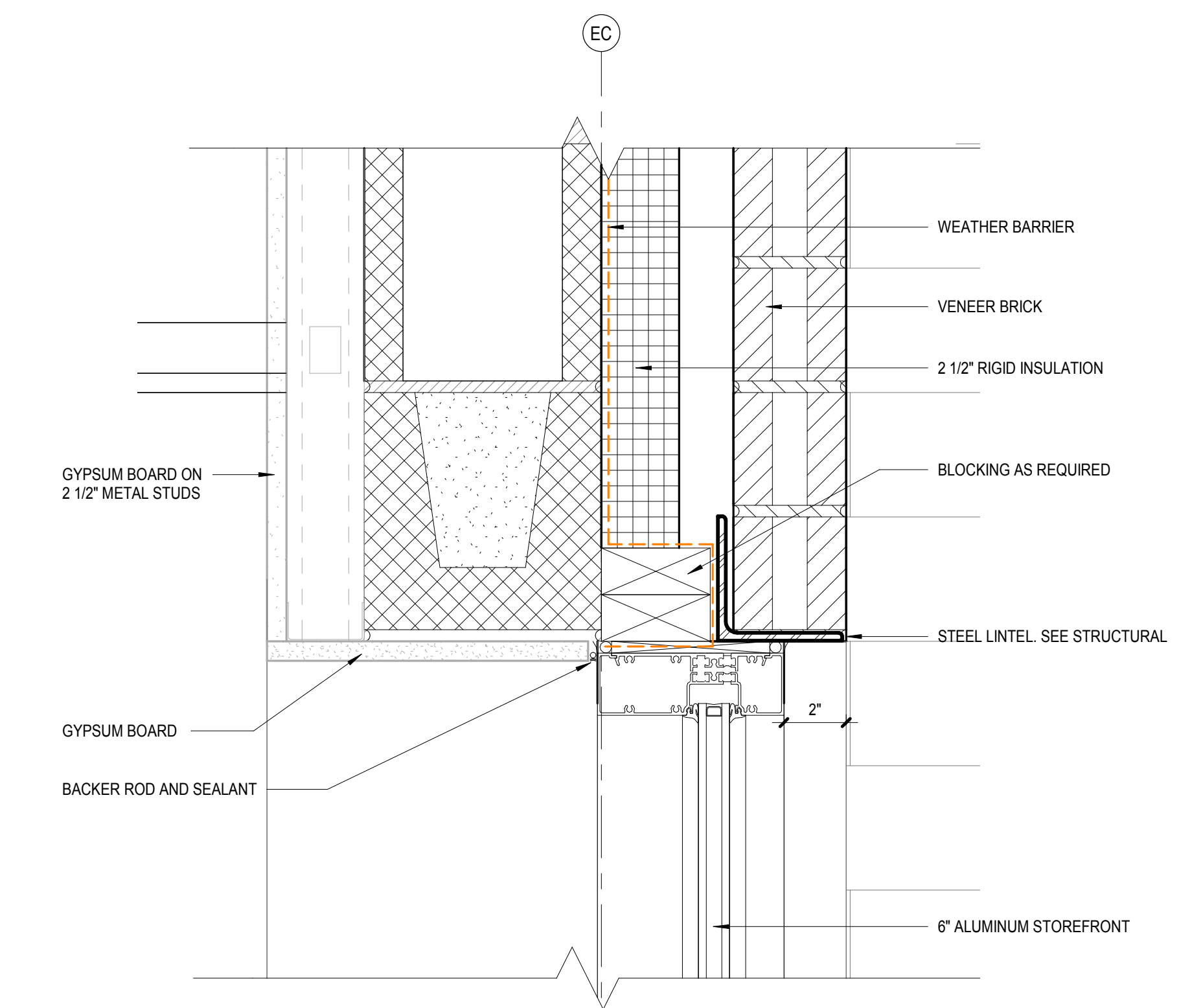
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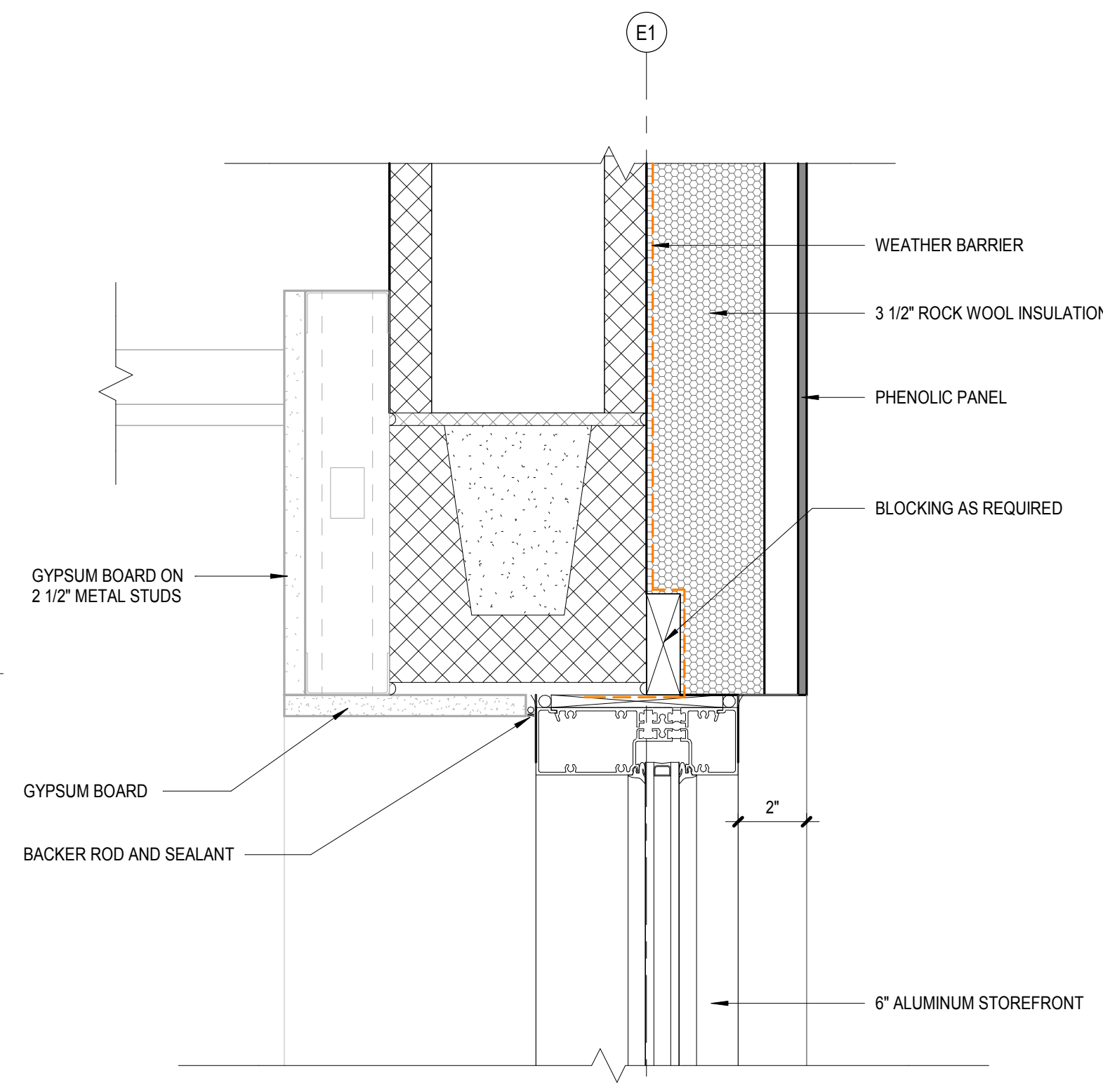
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1 1/2" = 1'-0"



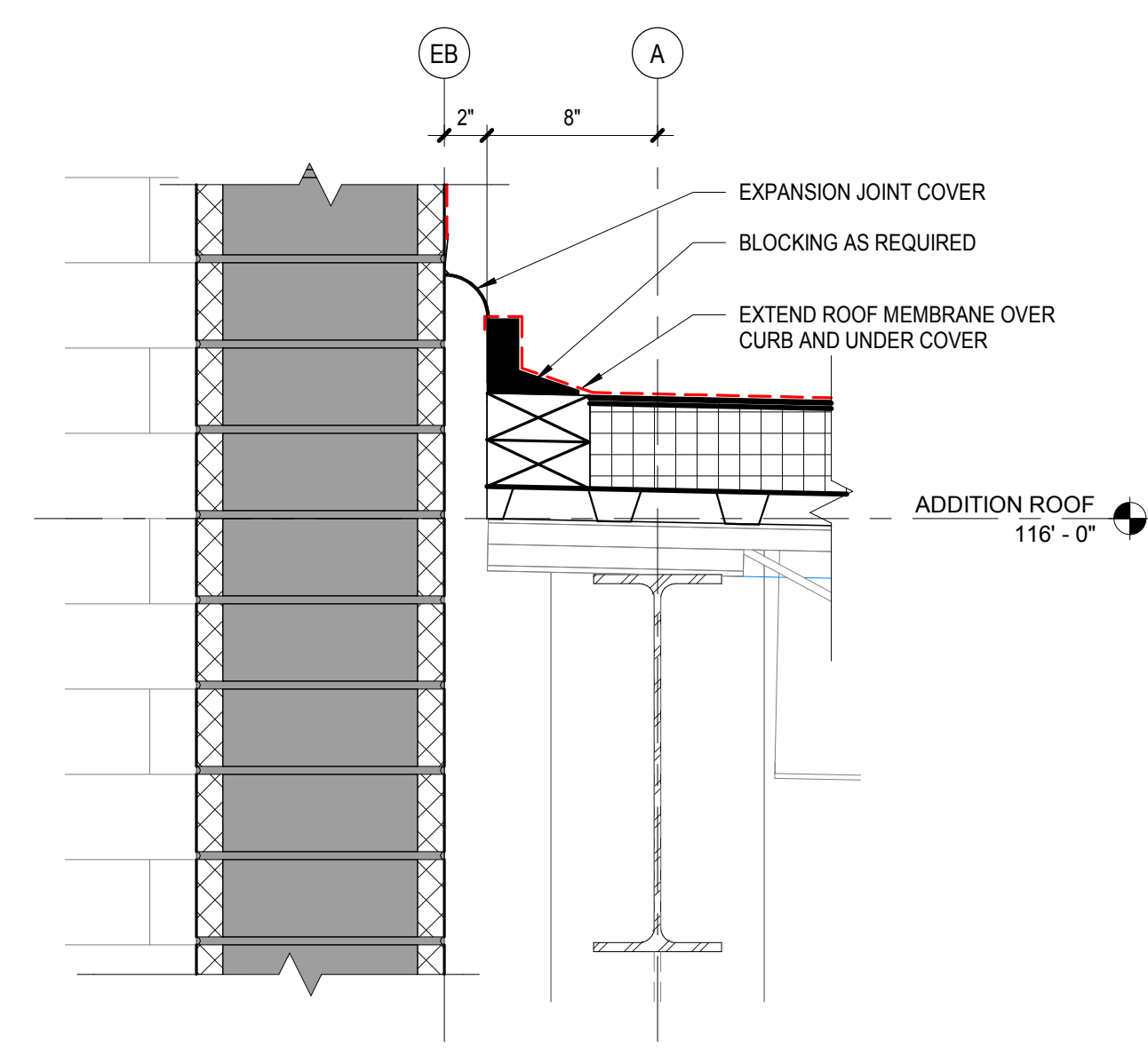
12 SECTION DETAIL
1 1/2" = 1'-0"



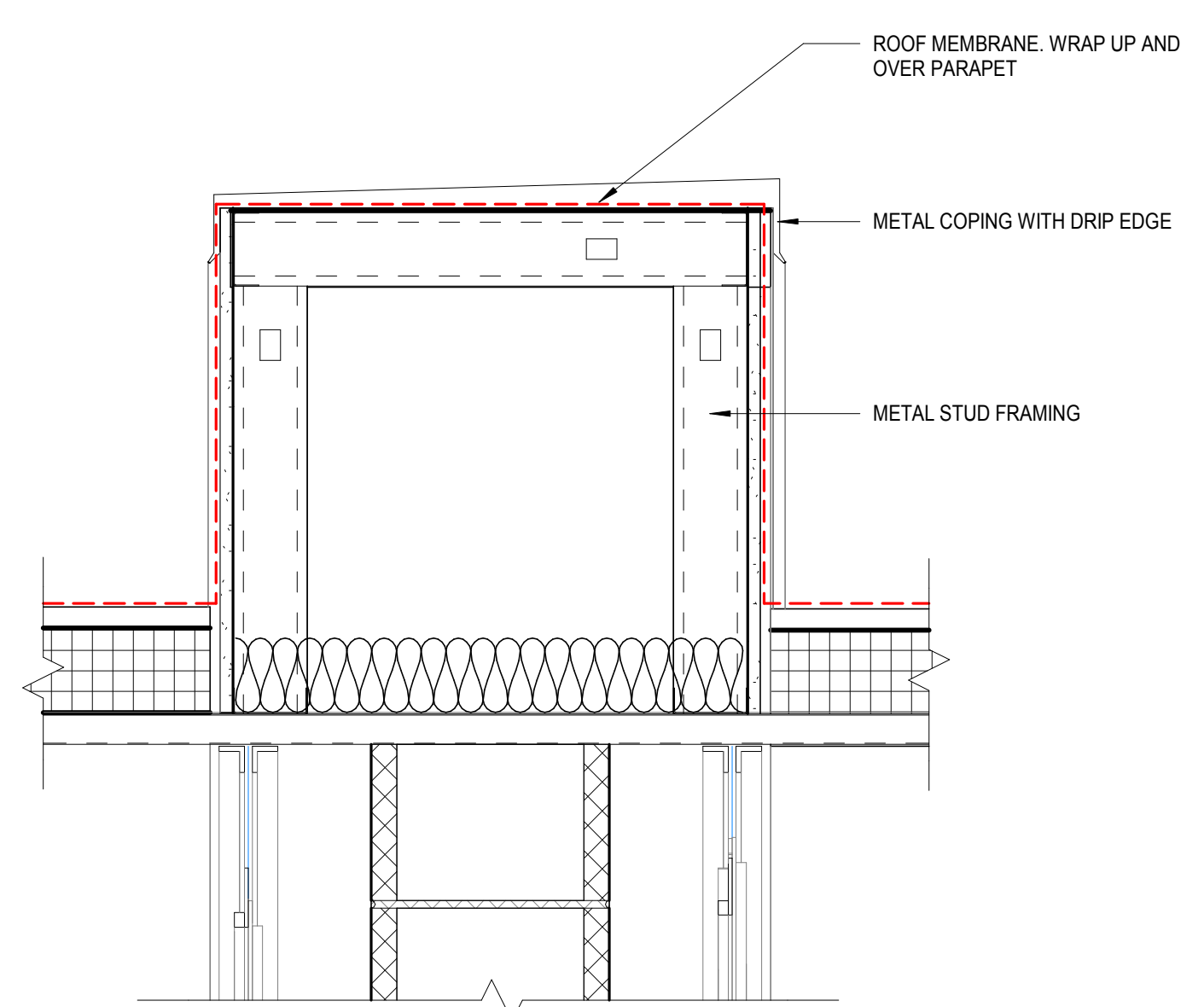
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3" = 1'-0"



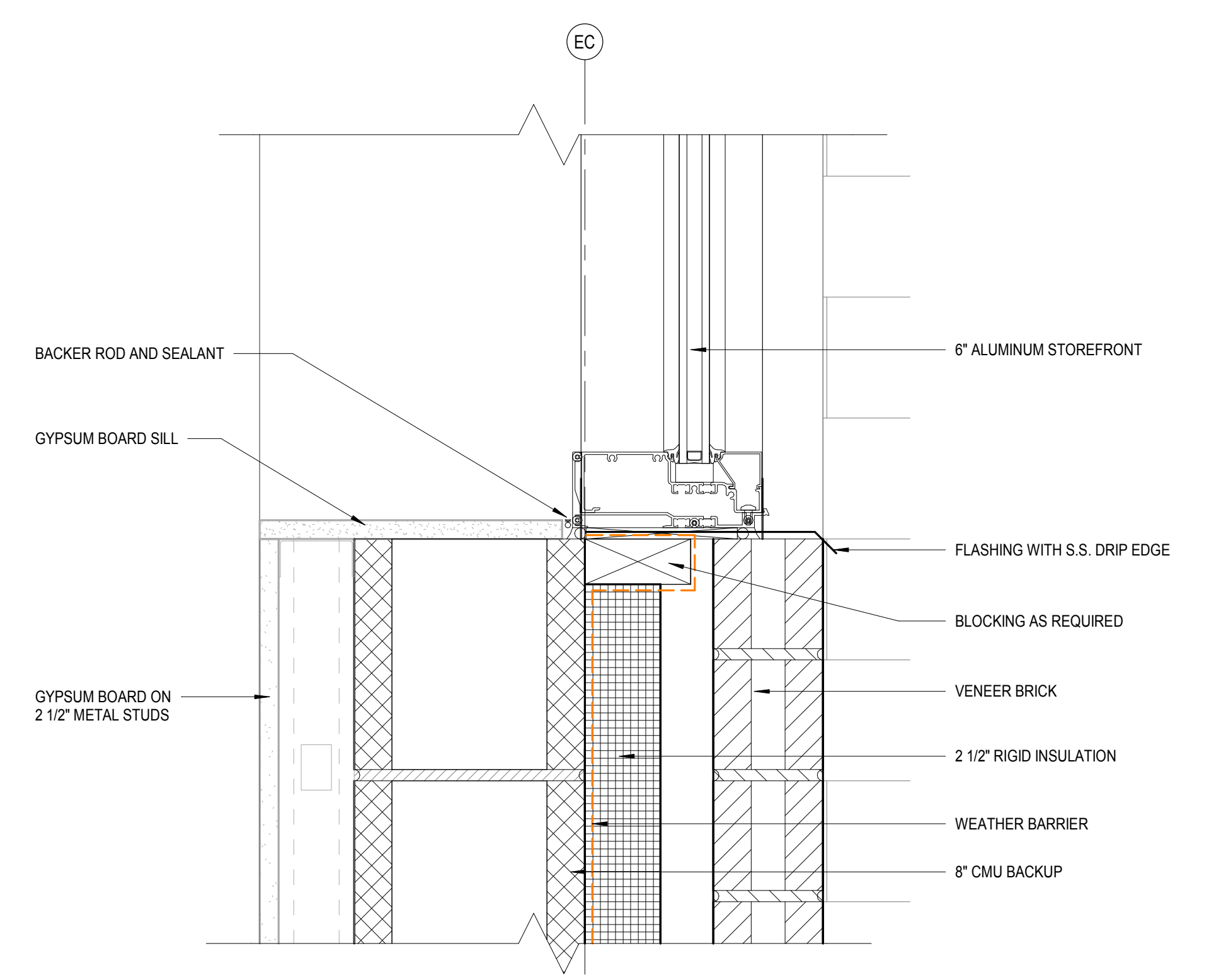
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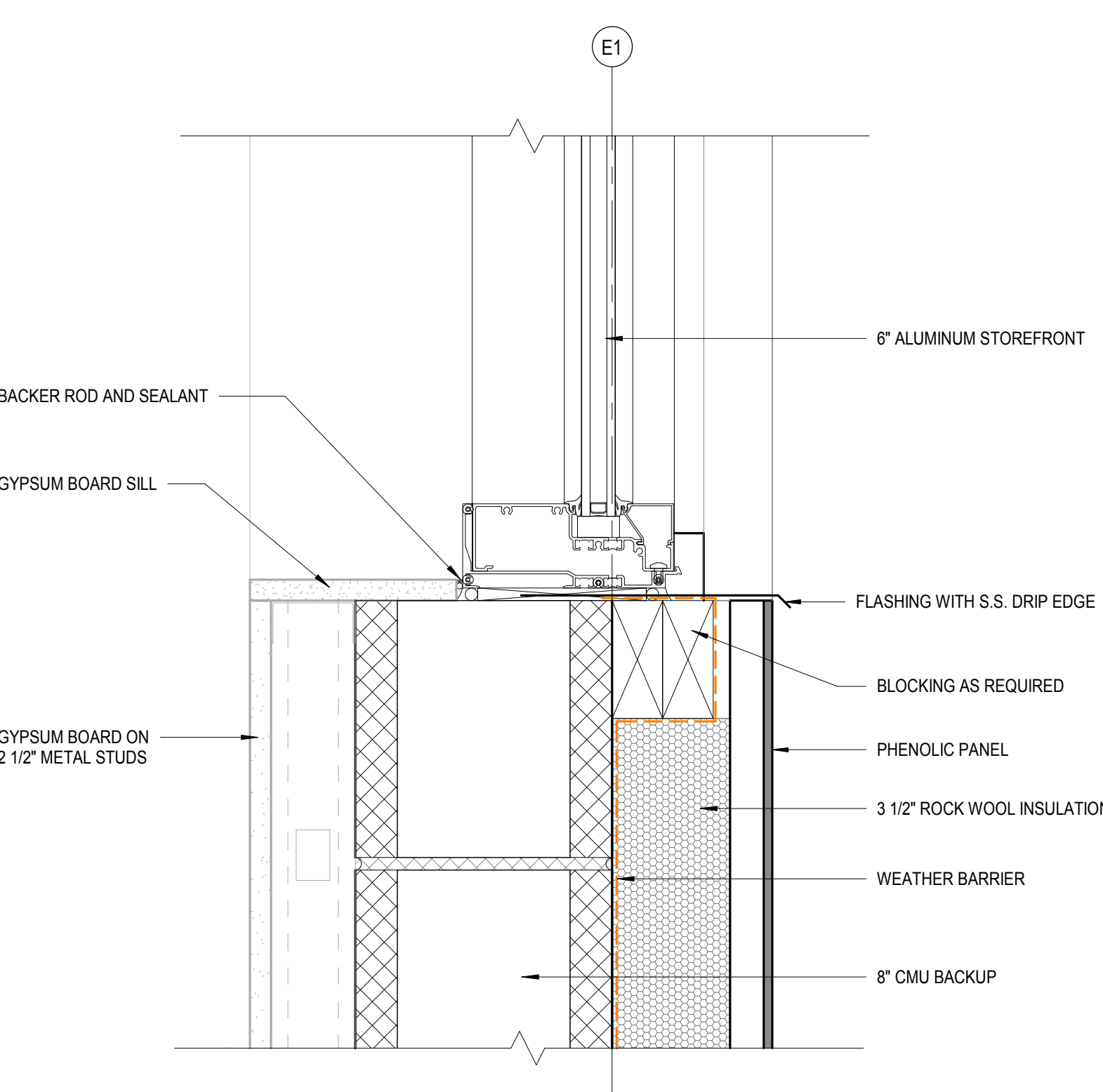
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1 1/2" = 1'-0"



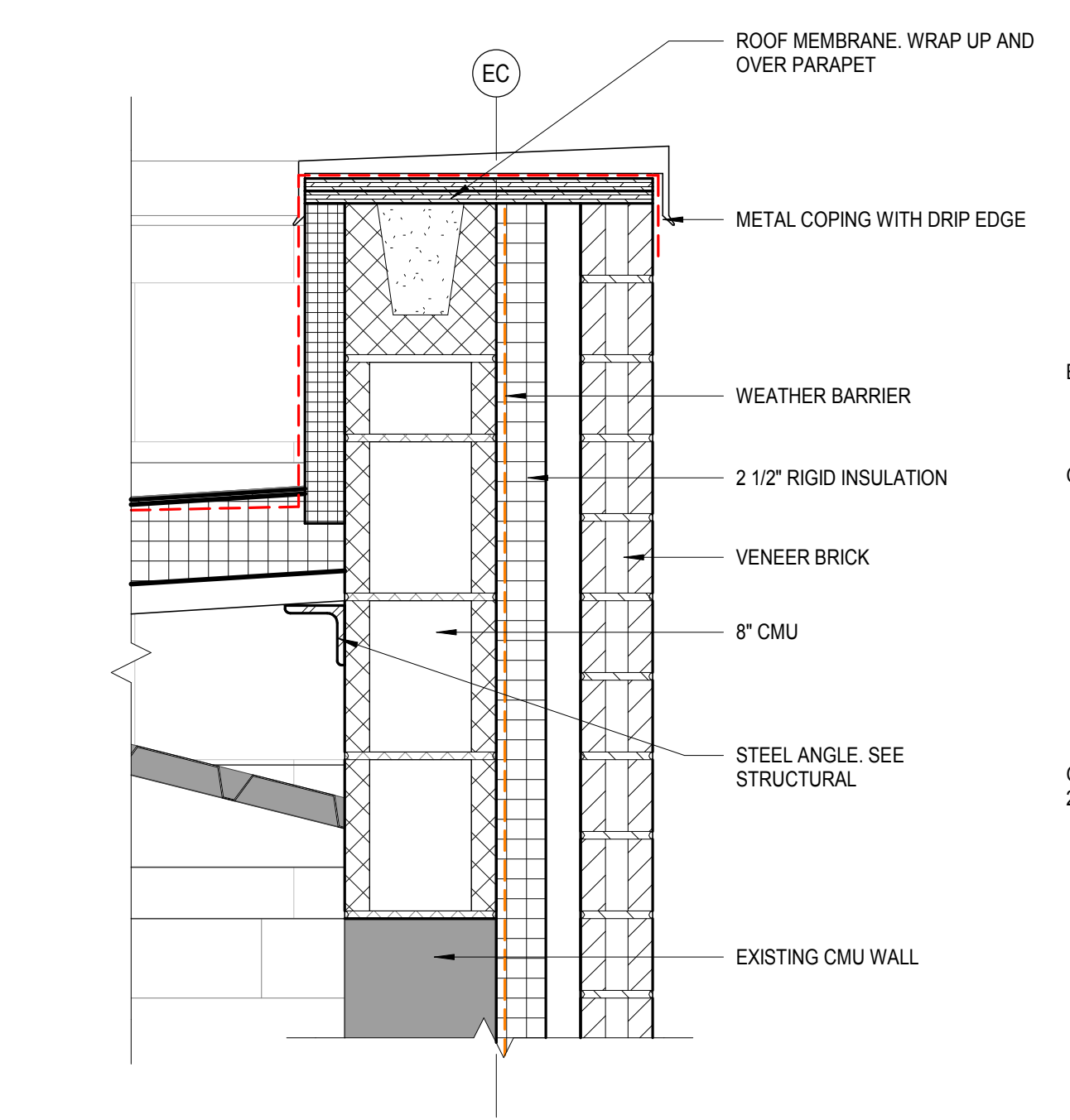
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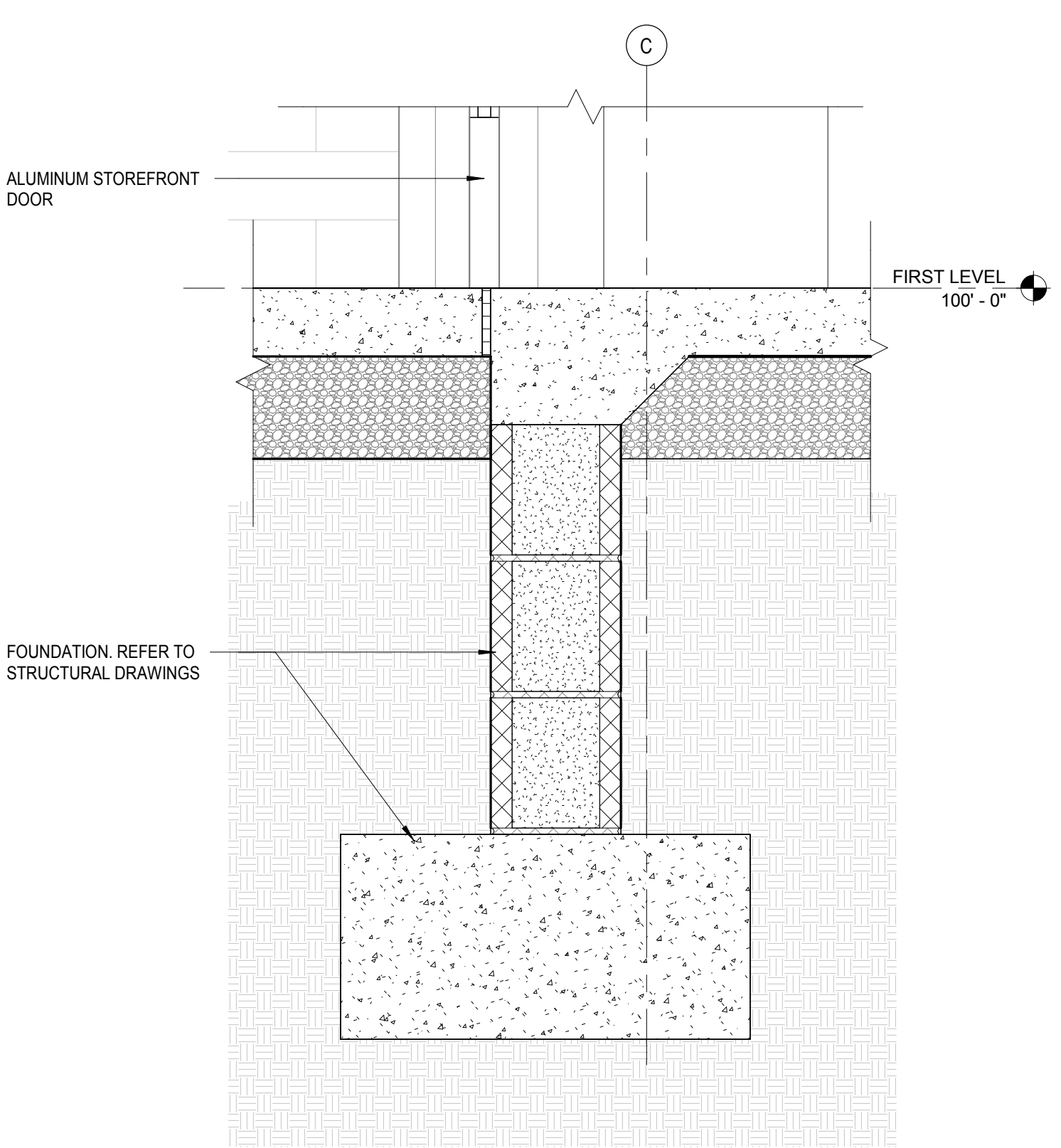
1 SECTION DETAIL
3" = 1'-0"



4 SECTION DETAIL
3" = 1'-0"



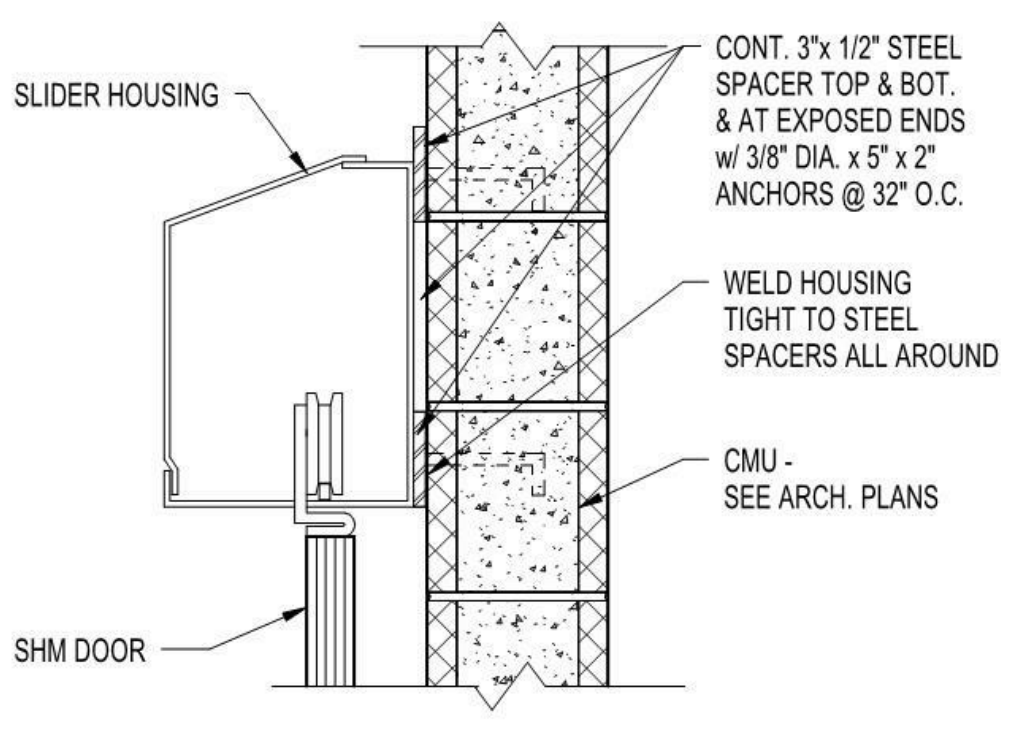
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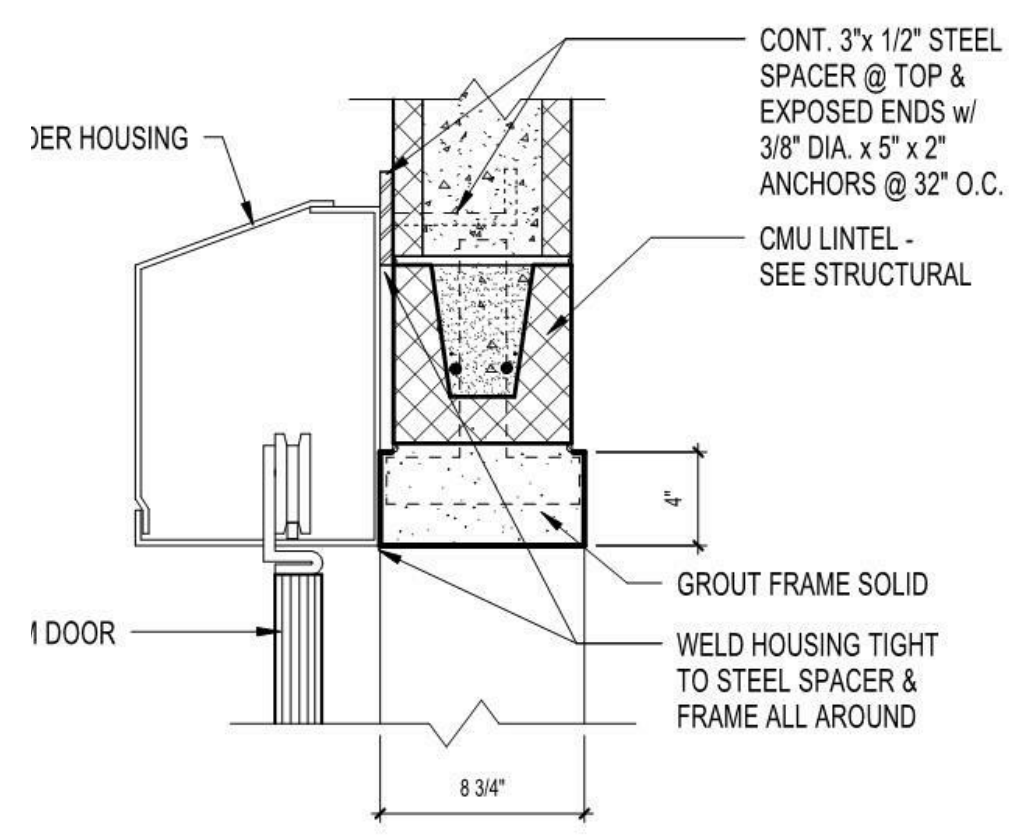
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8/20/2018 3:15:02 PM

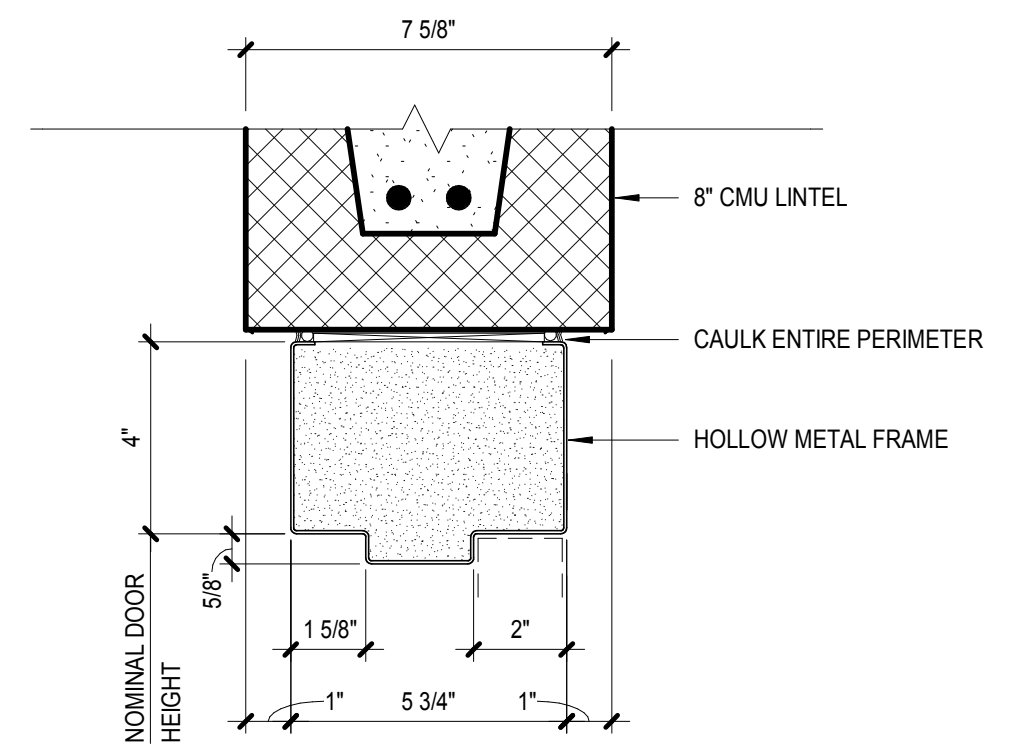
MARK	PAIR	Height x Width x Thickness	DOOR		FRAME			FIRE RATING	AAS Shared HW Set	COMMENTS	verified by P/PM
			MATERIAL	TYPE	MATERIAL	TYPE	HEAD				
101A	Yes	8'-0" x 6'-0" x 1 3/4"	ALUMINUM/GLASS	D2	ALUMINUM	1/A601		7.0			
101B	Yes	8'-0" x 6'-0" x 1 3/4"	ALUMINUM/GLASS	D2	ALUMINUM	1/A601		10.0			
103	Yes	8'-0" x 6'-0" x 1 3/4"	ALUMINUM/GLASS	D2	ALUMINUM	3/A601		6.0			
164		7'-0" x 3'-0" x 1 3/4"	HOLLOW METAL	D1	HOLLOW METAL	F2	H3	J3	13.0		
165		8'-0" x 3'-0" x 2"	ALUMINUM/GLASS	D2					5.0		No
177A		7'-0" x 3'-0" x 2"	STEEL	D3	STEEL	F3	H4,H5	J4,J5	1.0	SECURE HOLDING DOOR	
177B		7'-0" x 3'-0" x 2"	STEEL	D3	STEEL	F3	H4,H5	J4,J5	1.0	SECURE HOLDING DOOR	
183A		10'-0" x 12'-0" x 2"	STEEL	D4	STEEL	F4	H2	J2	1.0	OVERHEAD SECTIONAL DOOR	
183B		10'-0" x 12'-0" x 2"	STEEL	D4	STEEL	F4	H2	J2	1.0	OVERHEAD SECTIONAL DOOR	
183C		7'-0" x 3'-0" x 1 3/4"	HOLLOW METAL	D1			H1	J1	2.0		No
184A	Yes	7'-0" x 6'-4" x 1 3/4"	HOLLOW METAL	D1			H1	J1	3.0		No
184B		7'-0" x 3'-0" x 1 3/4"	HOLLOW METAL	D1	HOLLOW METAL	F2	H3	J3	14.0		



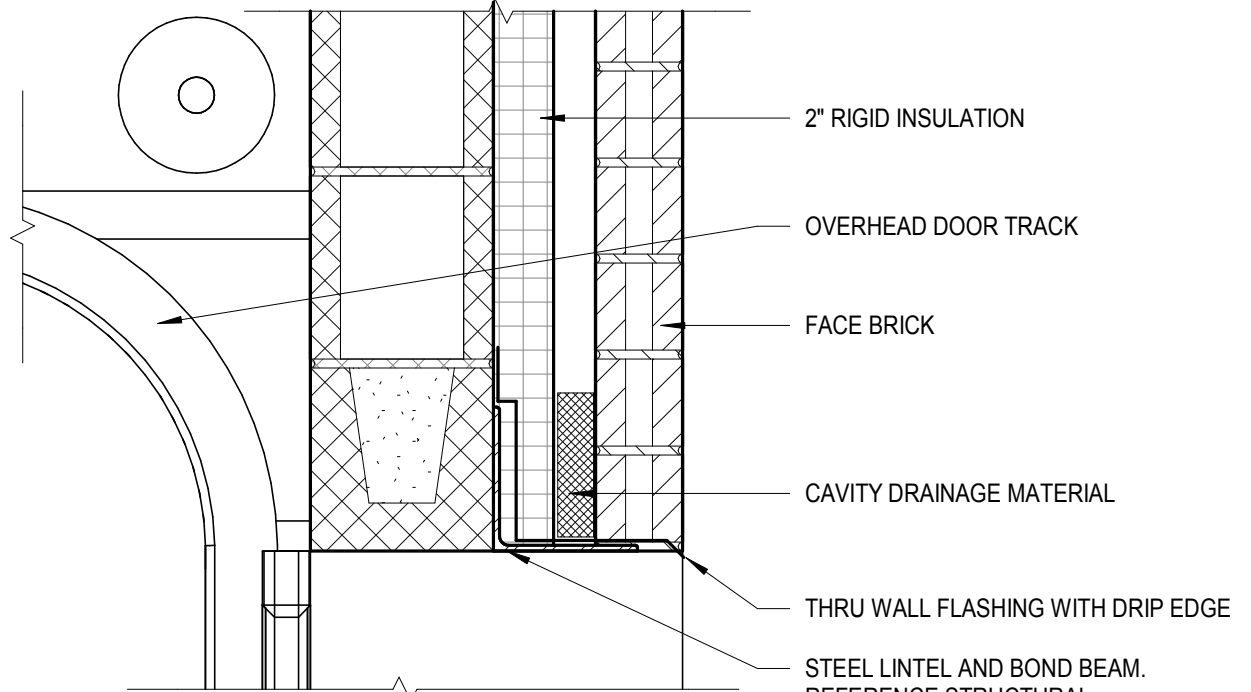
H5 DOOR HEAD 'H5'
1 1/2" = 1'-0"



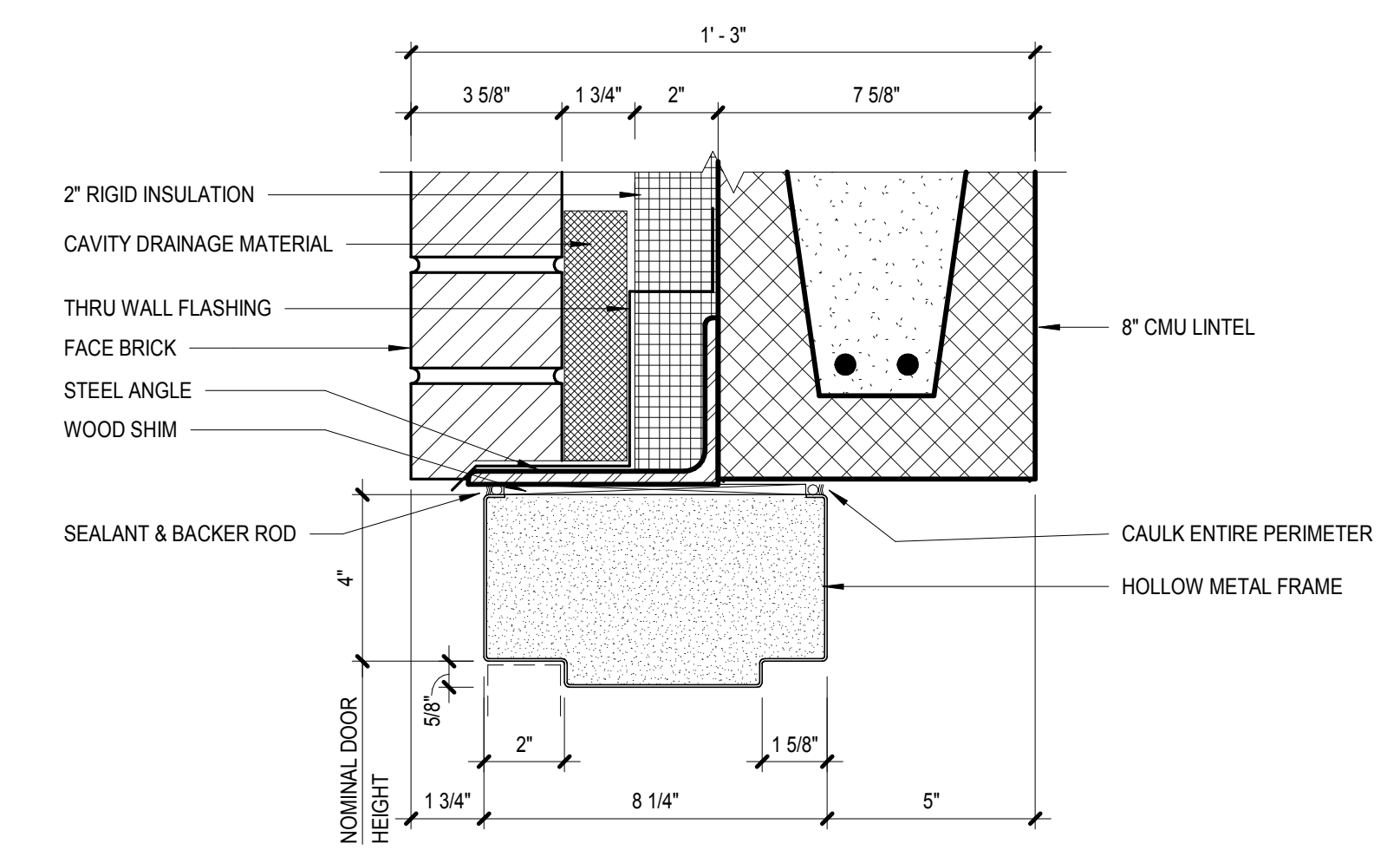
H4 DOOR HEAD 'H4'
1 1/2" = 1'-0"



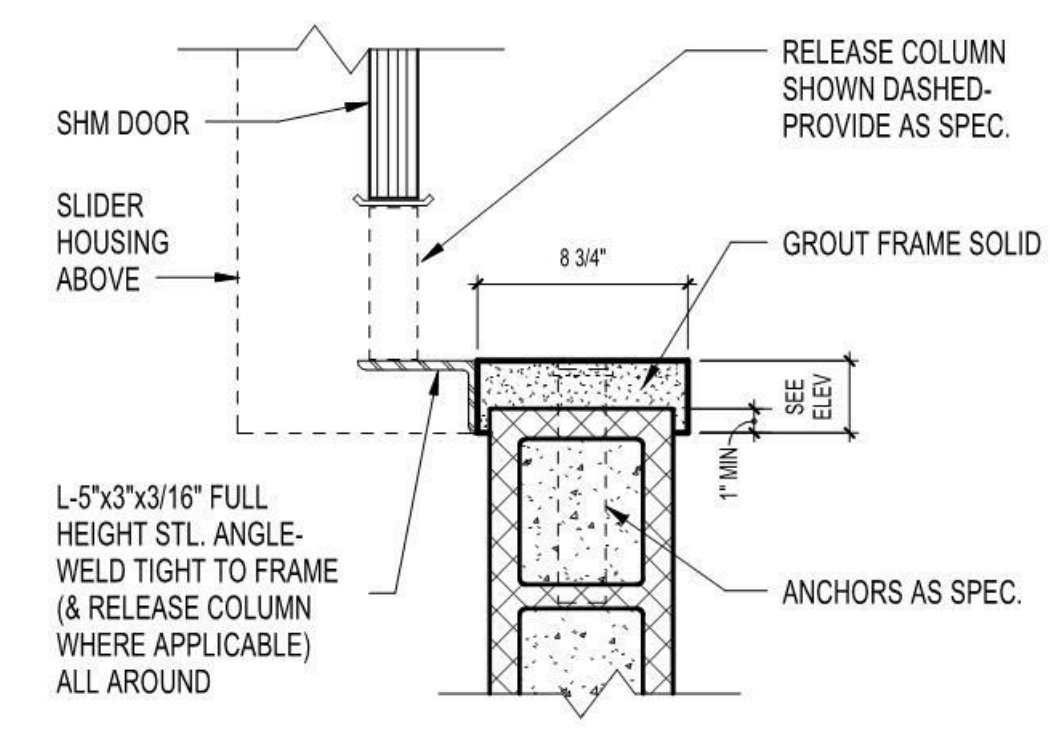
H3 DOOR HEAD 'H3'
3" = 1'-0"



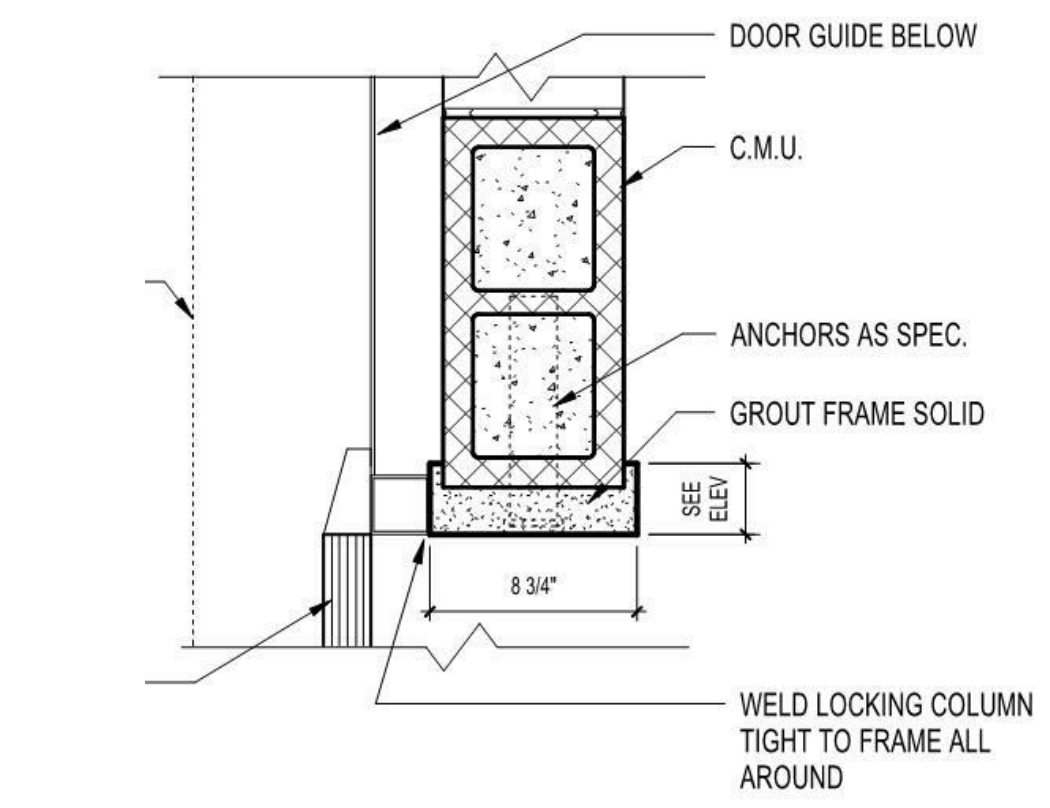
H2 DOOR HEAD 'H2'
1 1/2" = 1'-0"



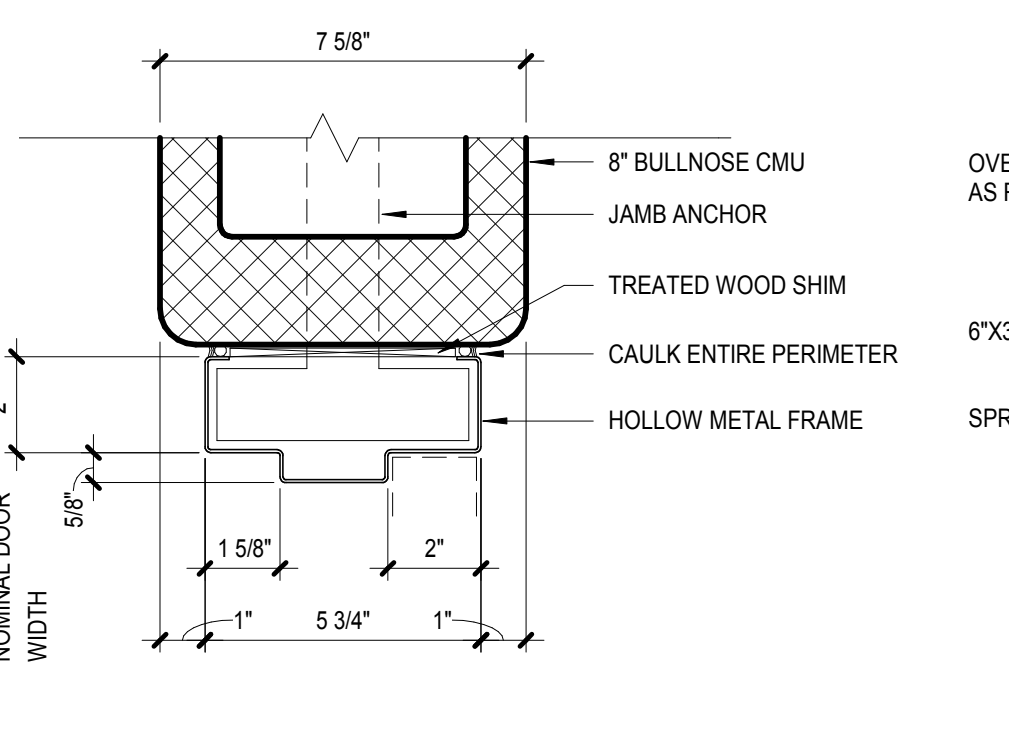
H1 DOOR HEAD 'H1'
3" = 1'-0"



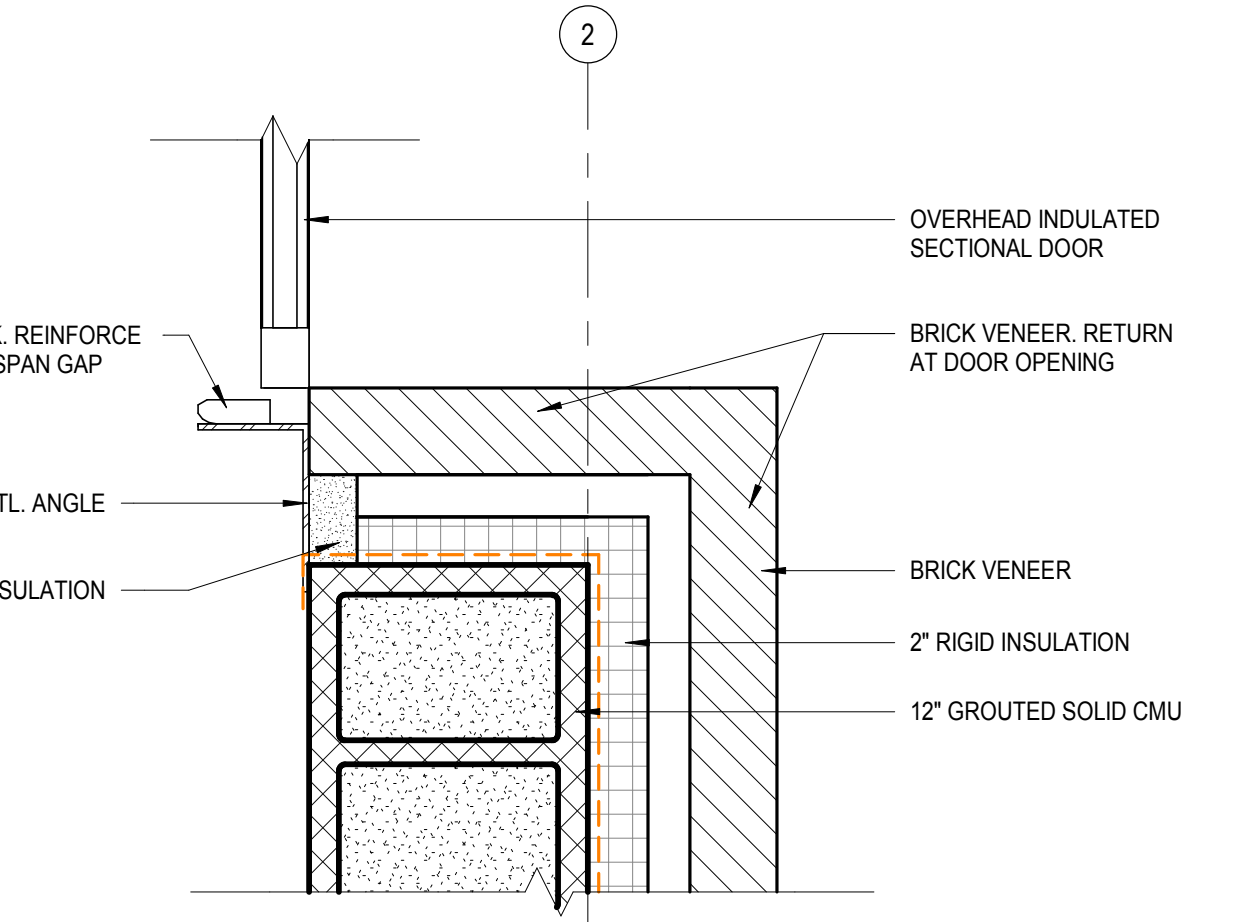
J5 DOOR JAMB 'J5'
1 1/2" = 1'-0"



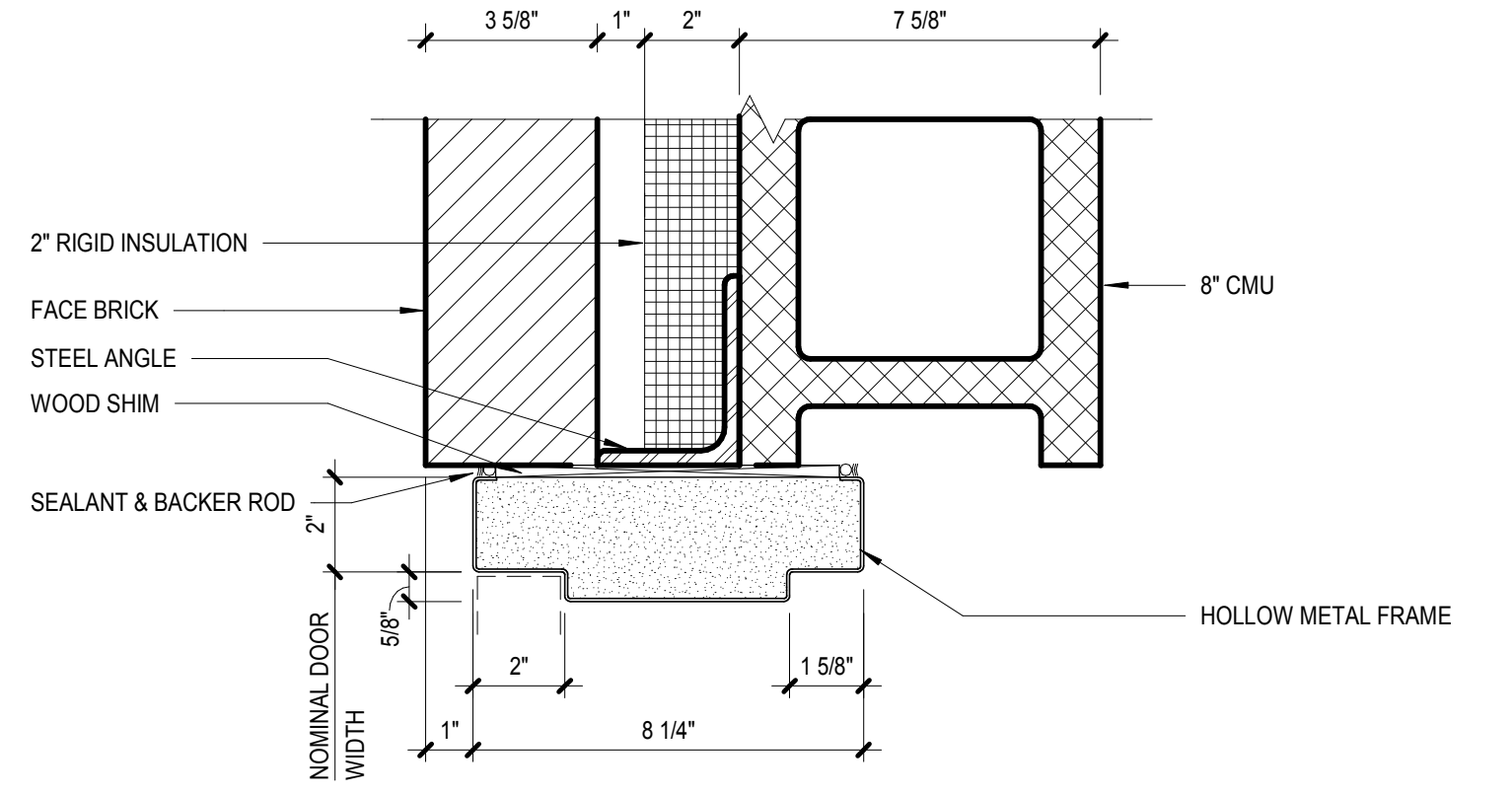
J4 DOOR JAMB 'J4'
1 1/2" = 1'-0"



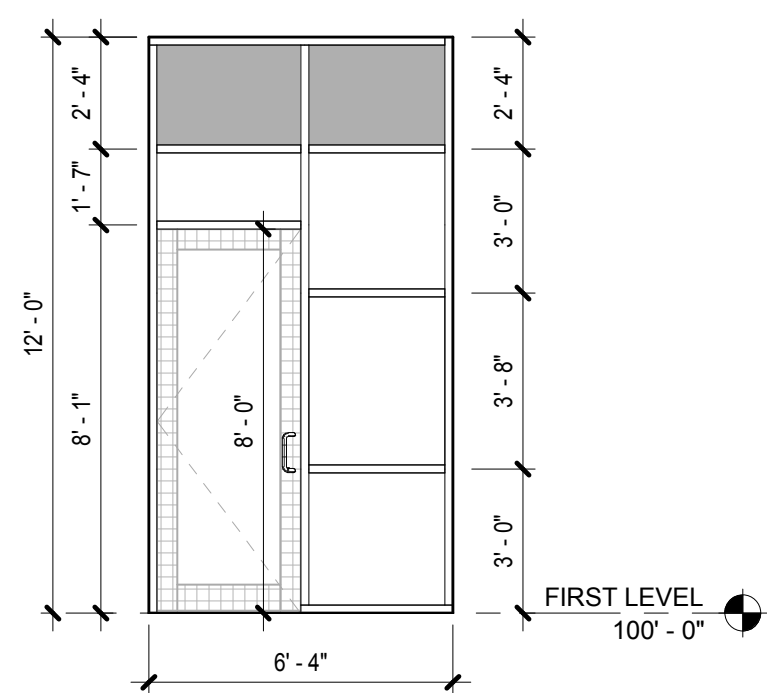
J3 DOOR JAMB 'J3'
3" = 1'-0"



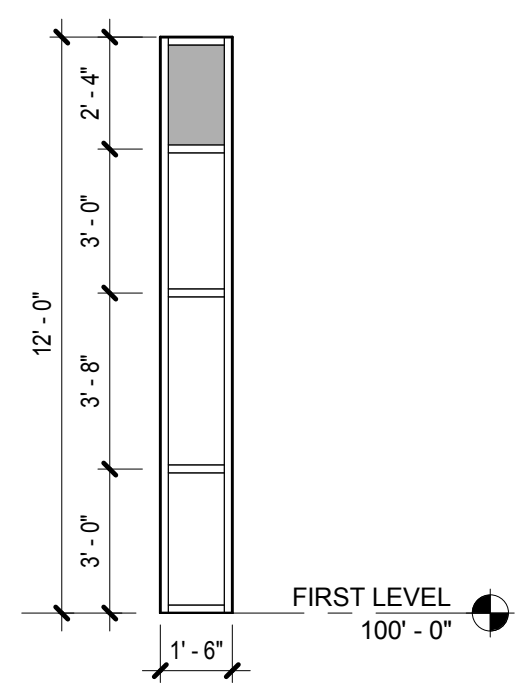
J2 DOOR JAMB 'J2'
1 1/2" = 1'-0"



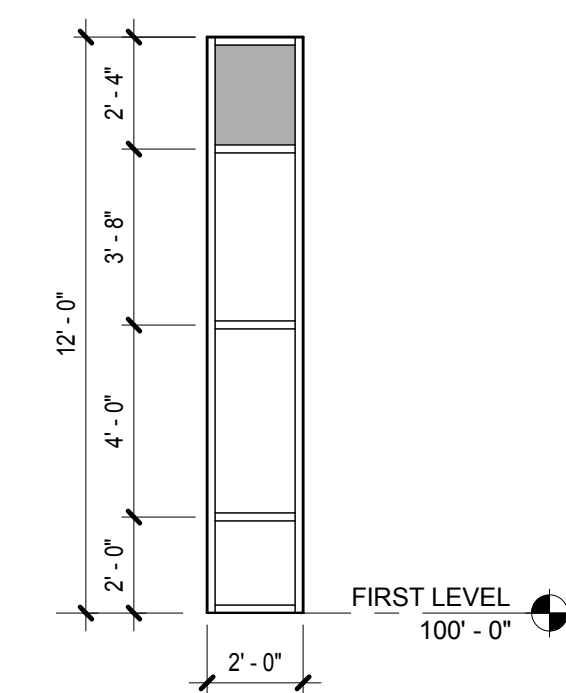
J1 DOOR JAMB 'J1'
3" = 1'-0"



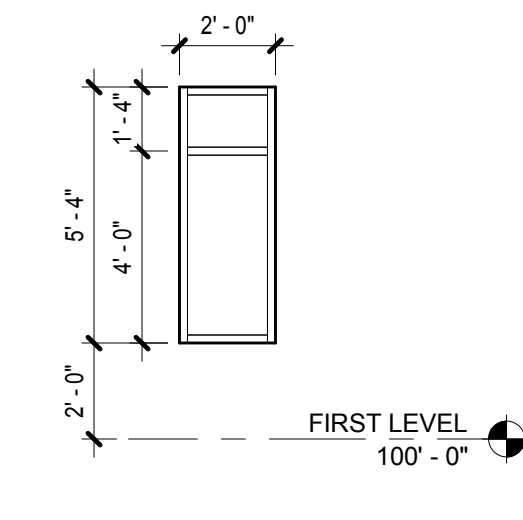
6 STOREFRONT SF6 ELEVATION
1/4" = 1'-0"



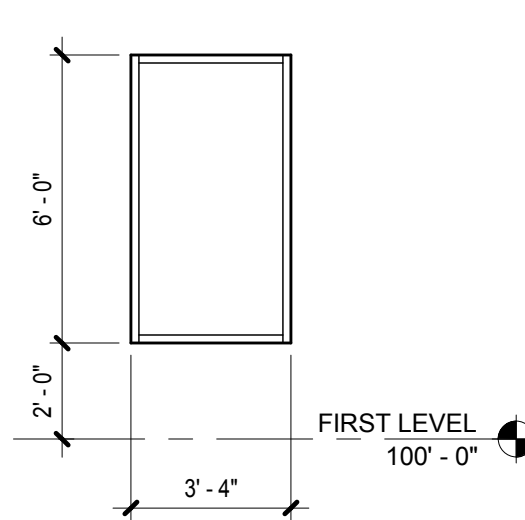
4 STOREFRONT SF4 ELEVATION
1/4" = 1'-0"



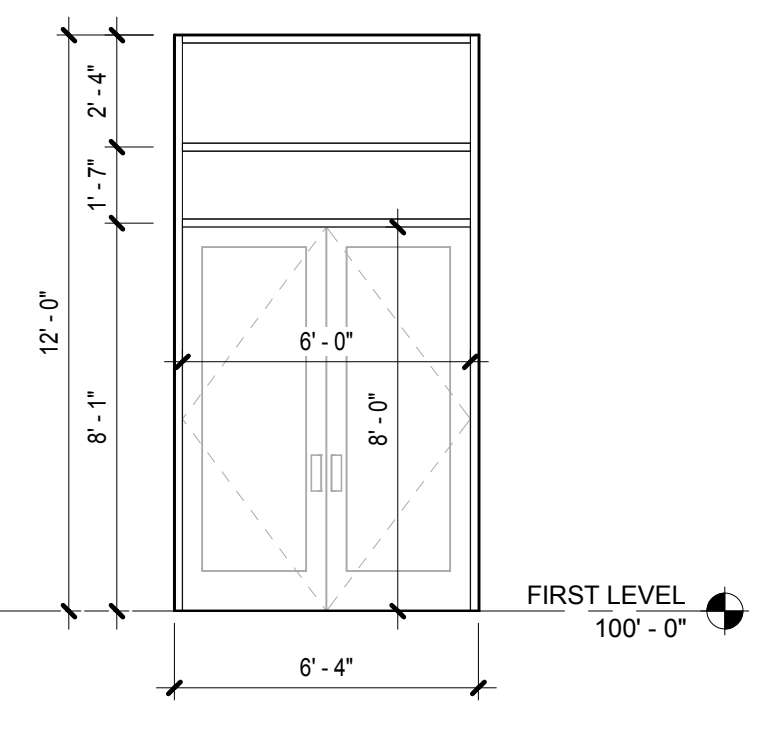
2 STOREFRONT SF2 ELEVATION
1/4" = 1'-0"



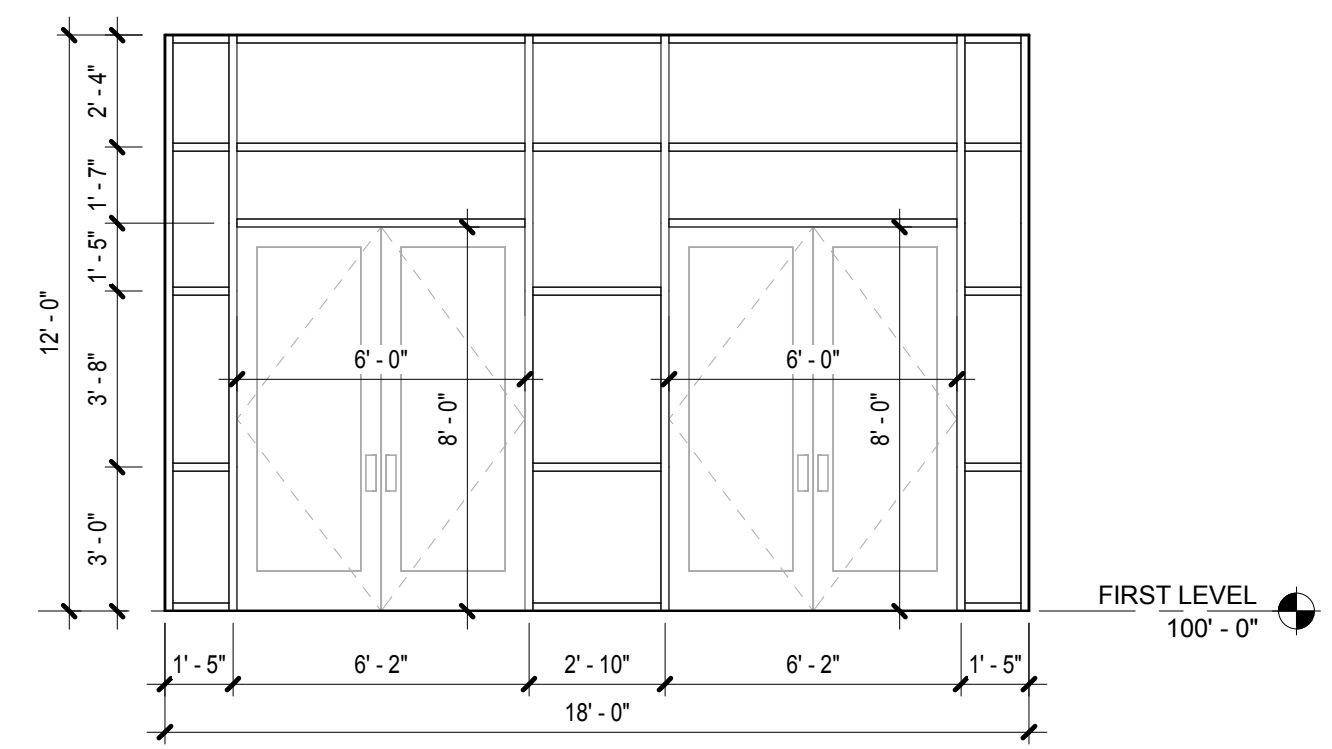
7 STOREFRONT SF7 ELEVATION
1/4" = 1'-0"



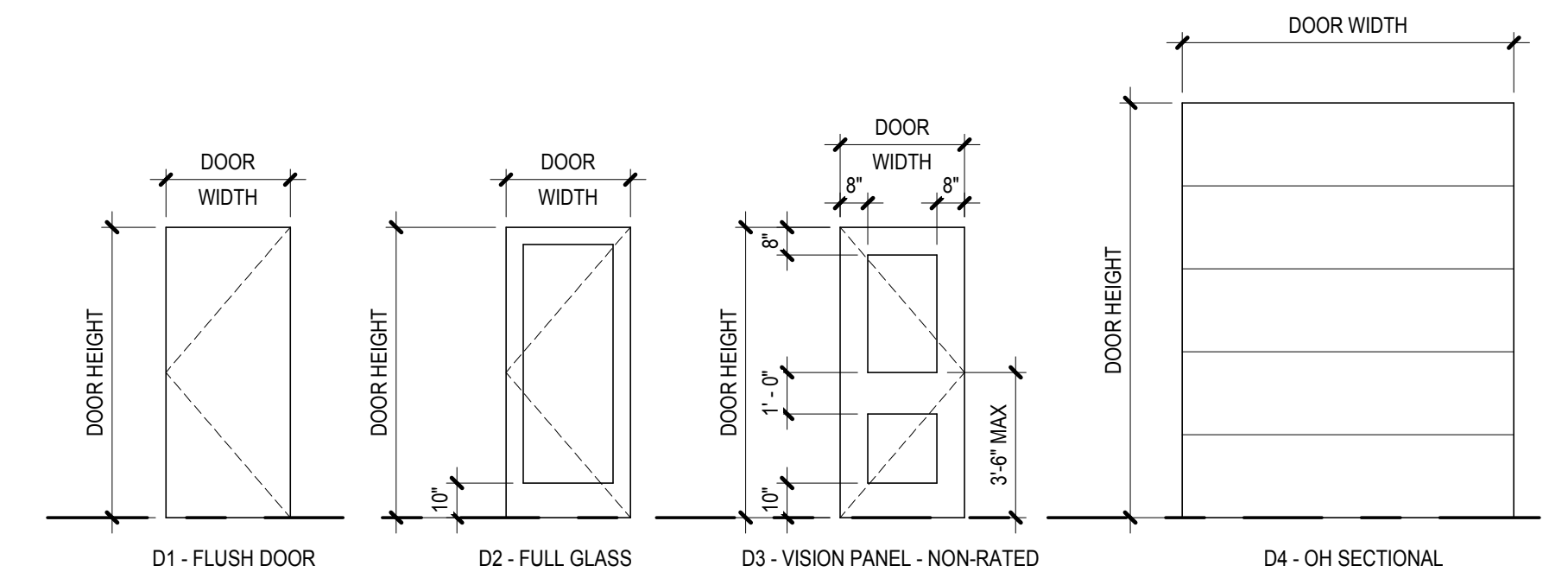
5 STOREFRONT SF5 ELEVATION
1/4" = 1'-0"



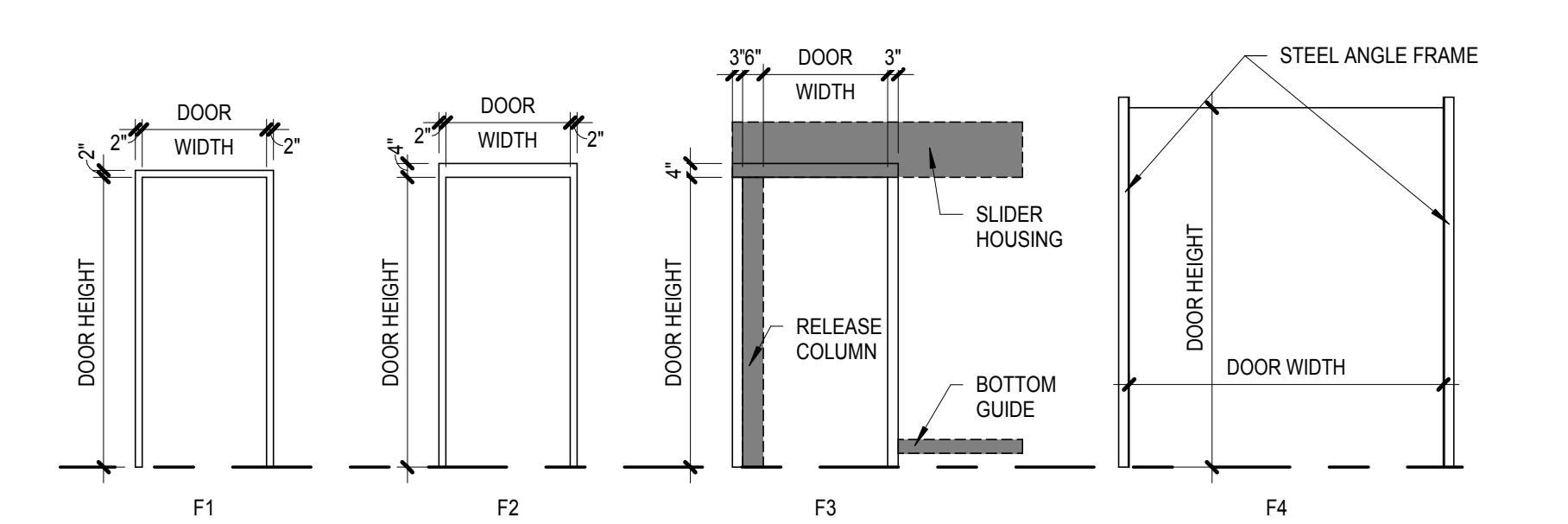
3 STOREFRONT SF3 ELEVATION
1/4" = 1'-0"



1 STOREFRONT SF1 ELEVATION
1/4" = 1'-0"



DOOR ELEVATIONS



DOOR FRAME ELEVATIONS