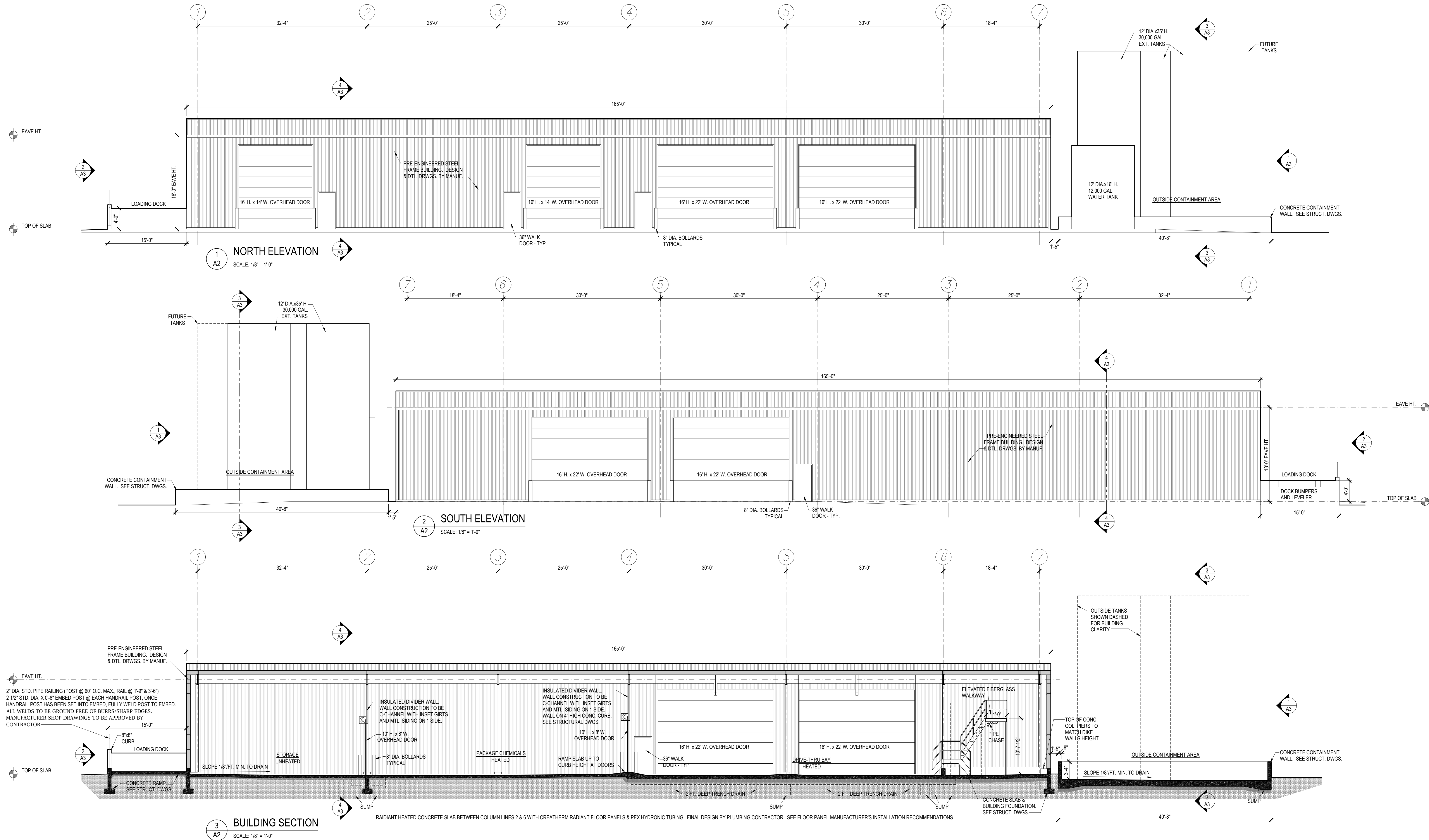
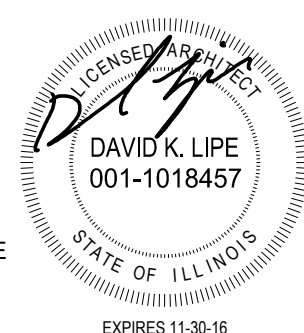






NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

EXTERIOR ELEVATIONS	PROJ. NO.: 1527
	DATE: 11-04-15
Helena Chemical Company New Chemical Building 1992 Old Grace Road Meredosia, IL 62665	A2



LIPE ARCHITECTURE

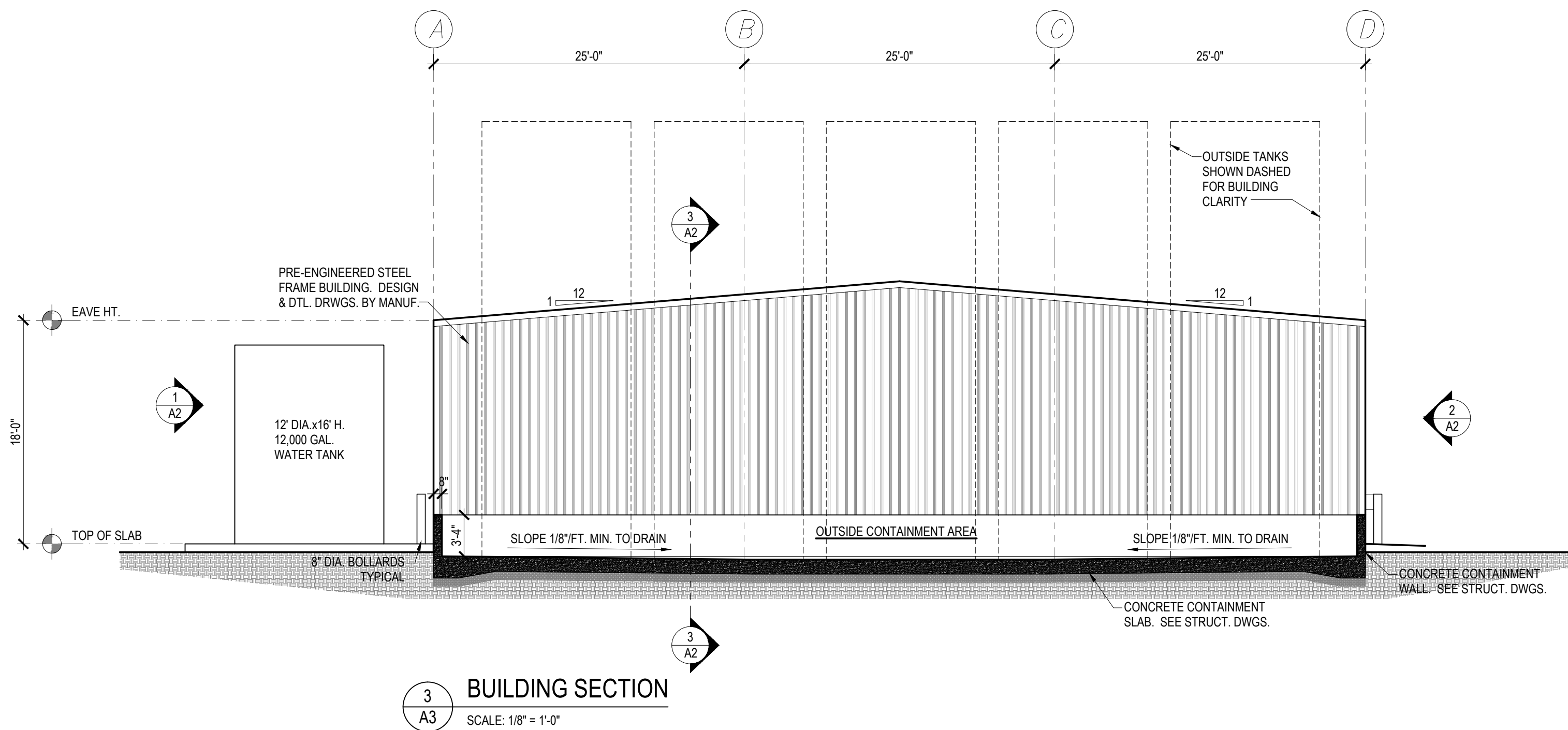
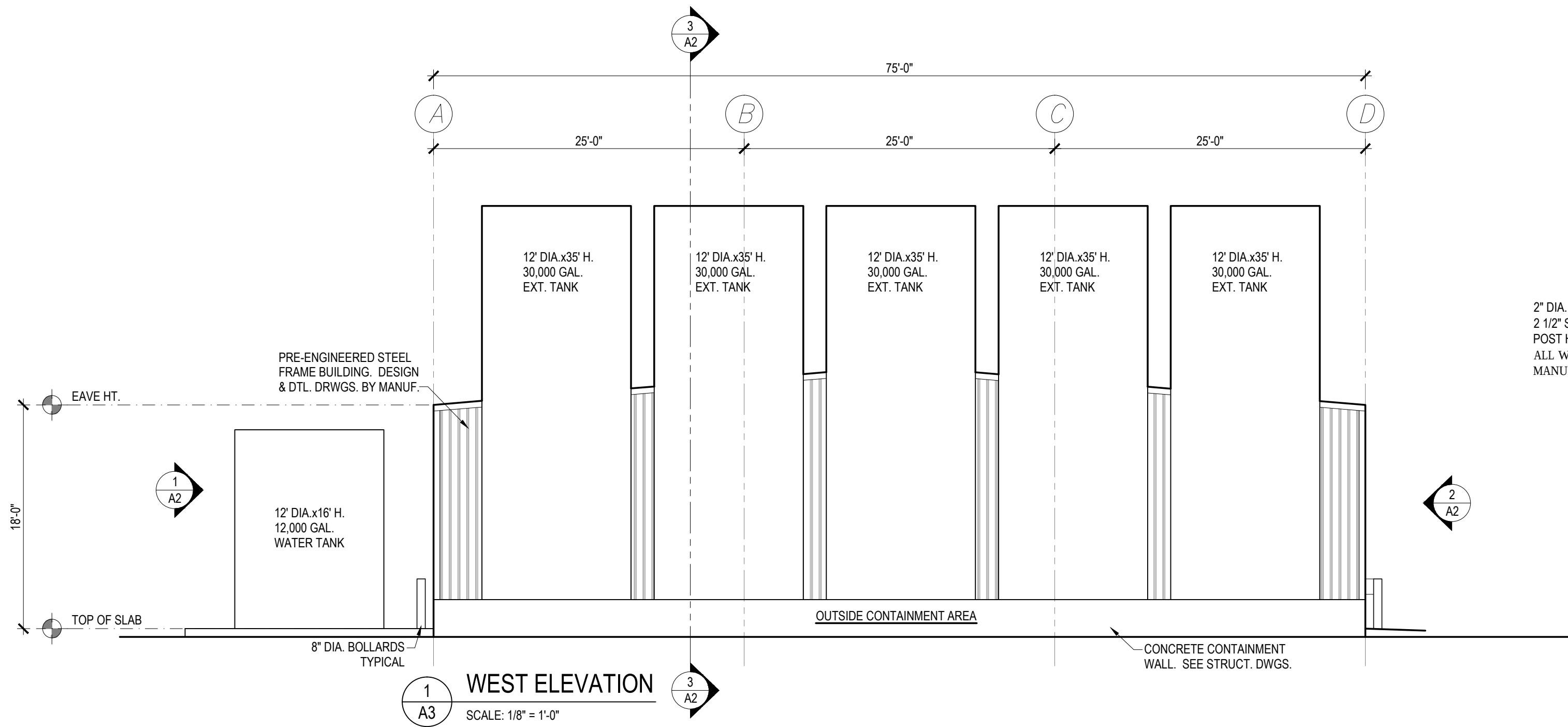
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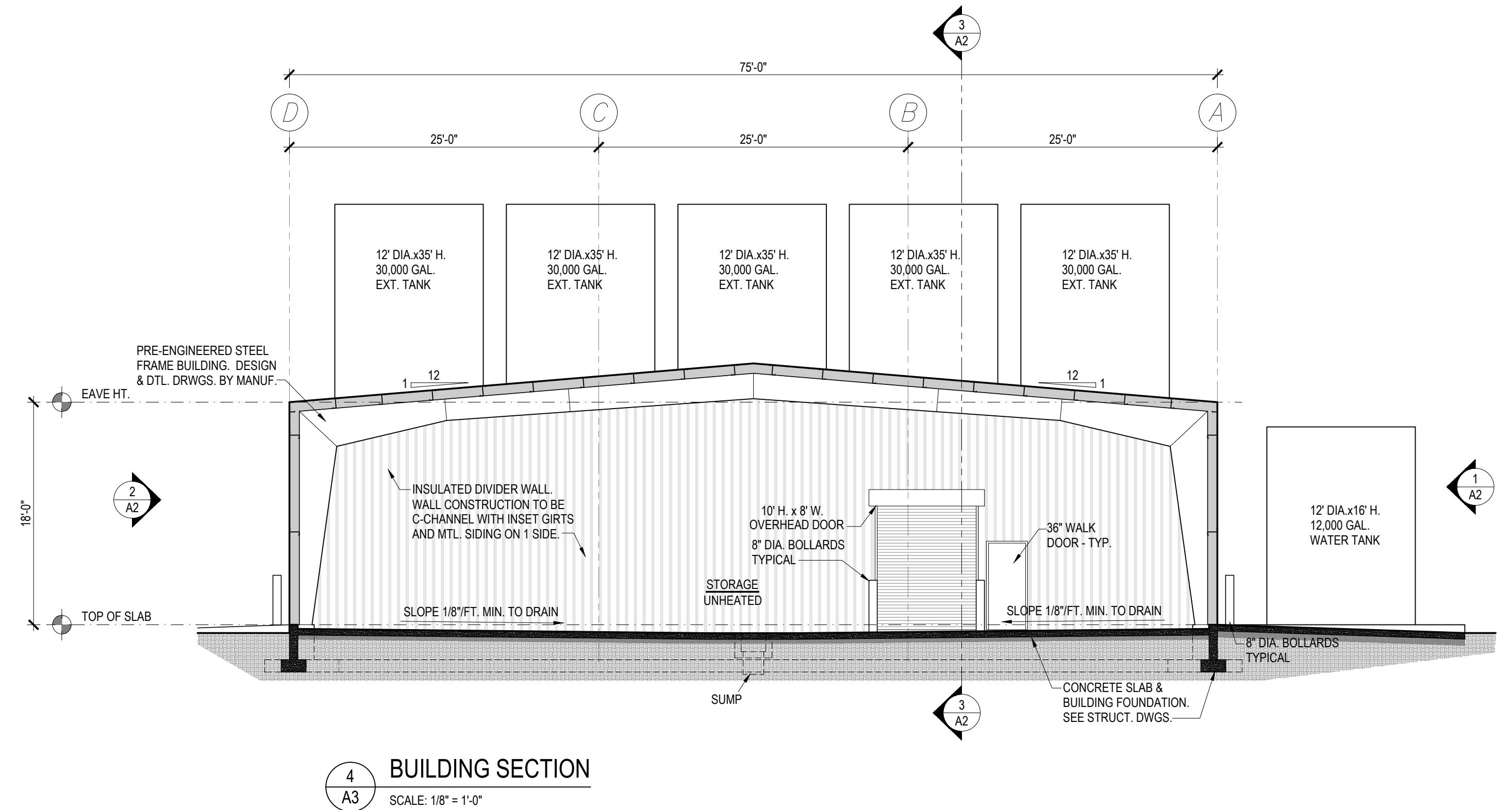
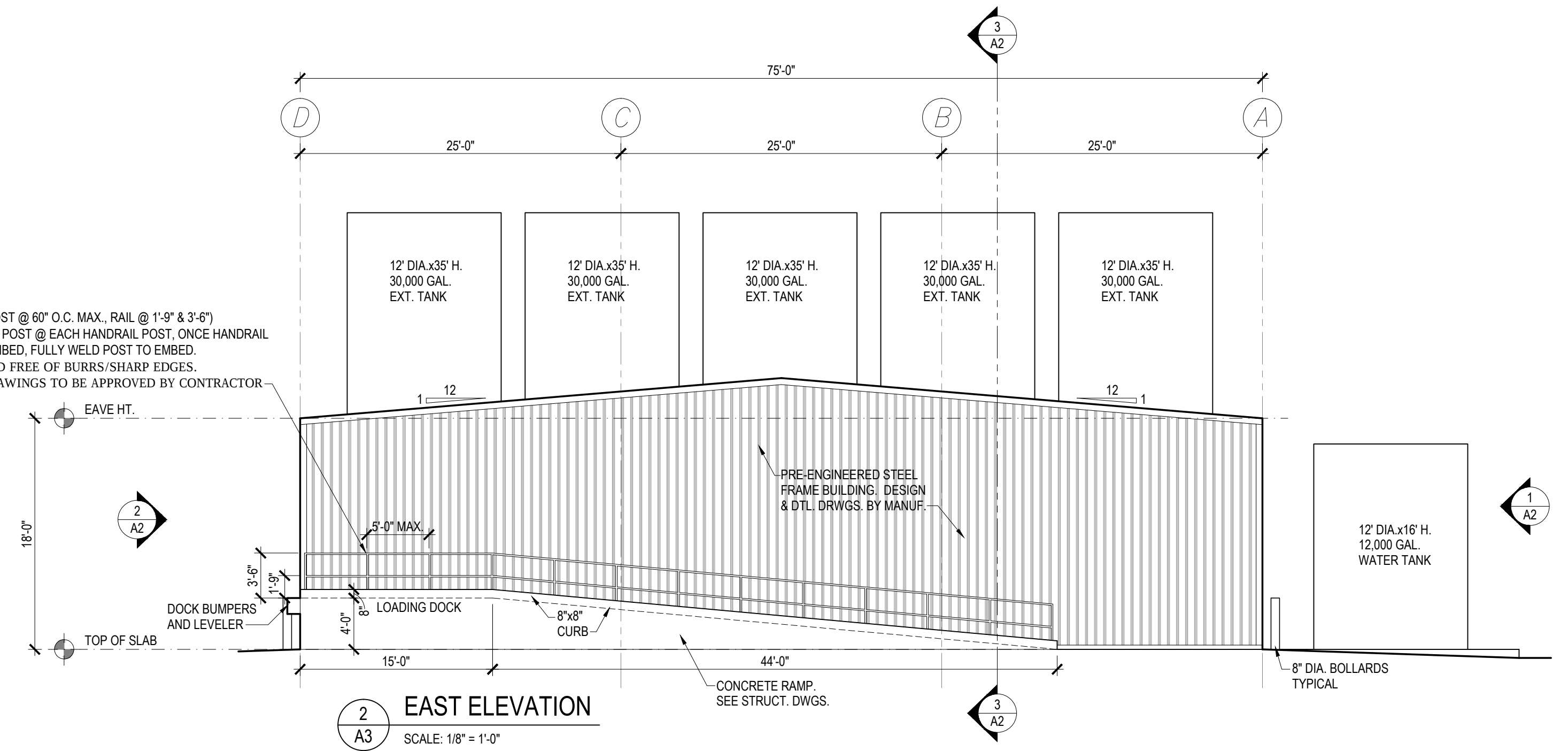
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2" DIA. STD. PIPE RAILING (POST @ 60" O.C. MAX., RAIL @ 1'-9" & 3'-6")
2 1/2" STD. DIA. X 0'-8" EMBED POST @ EACH HANDRAIL POST, ONCE HANDRAIL POST HAS BEEN SET INTO EMBED, FULLY WELD POST TO EMBED.
ALL WELDS TO BE GROUND FREE OF BURRS/SHARP EDGES.
MANUFACTURER SHOP DRAWINGS TO BE APPROVED BY CONTRACTOR

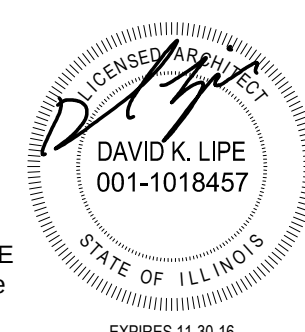


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EXTERIOR ELEVATIONS & BUILDING SECTIONS	PROJ. NO.: 1527
	DATE: 11-04-15

Helena Chemical Company
New Chemical Building
1992 Old Grace Road Meredosia, IL 62665

A3



LIPE ARCHITECTURE

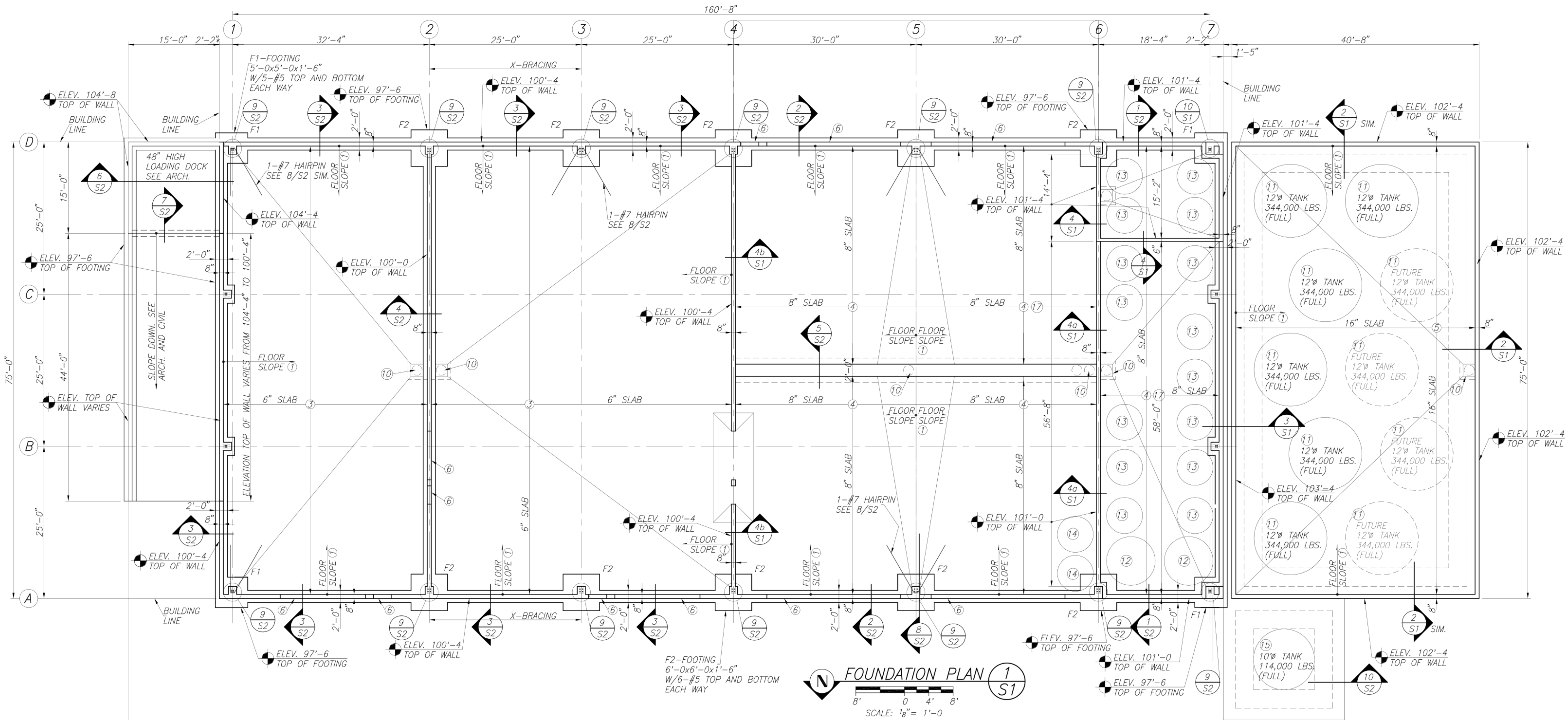
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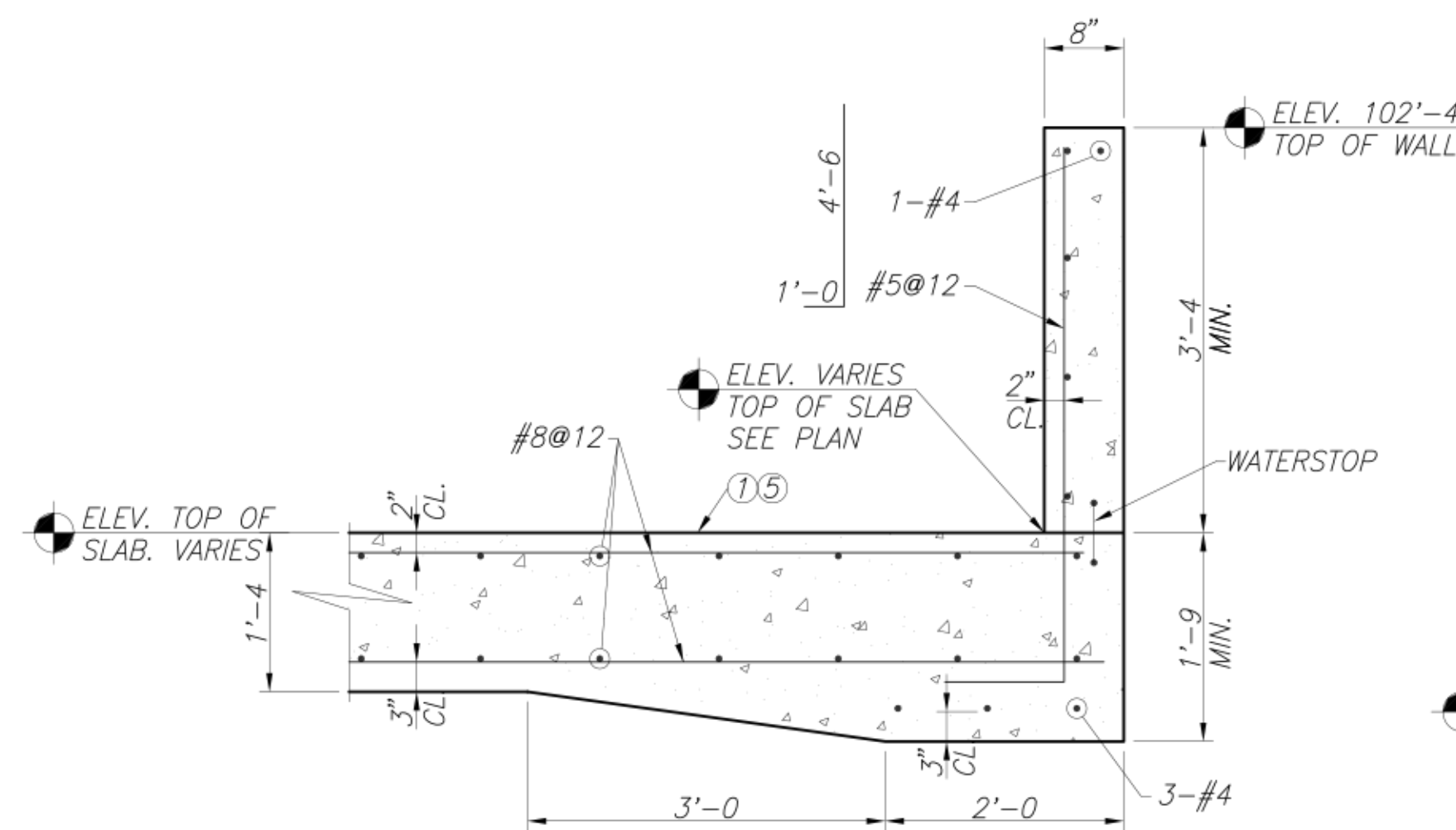
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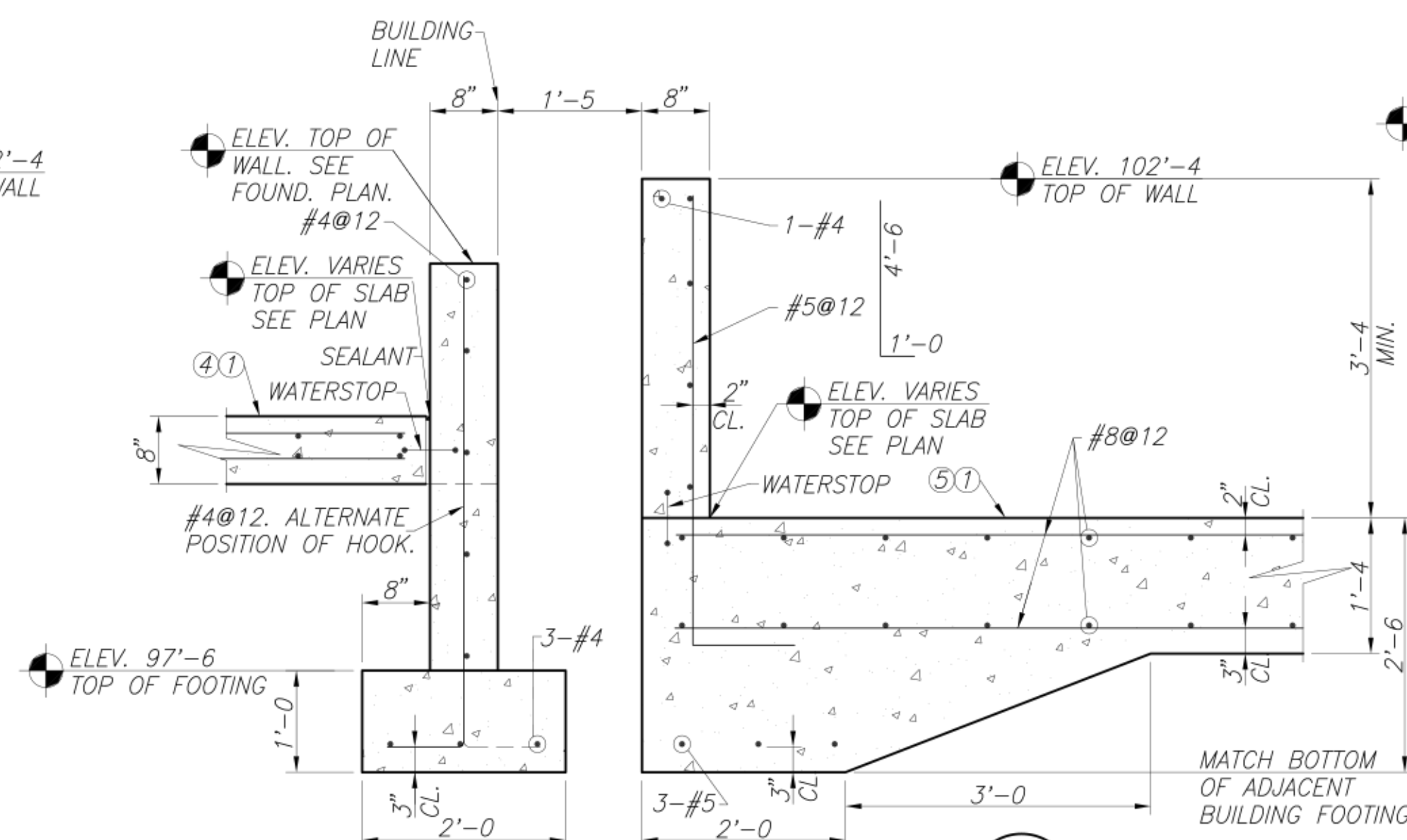


FOUNDATION NOTES

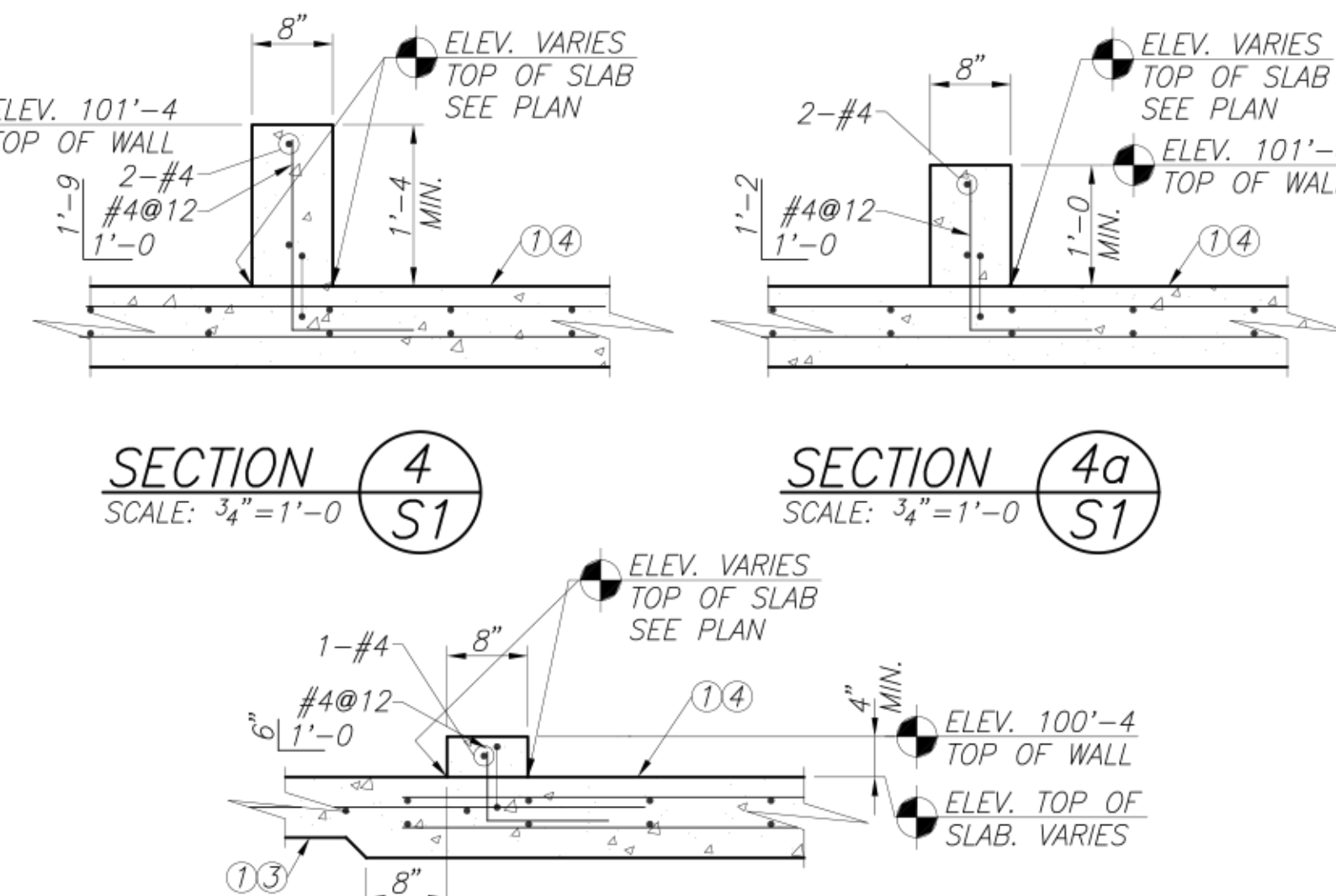
- ① ELEVATION TOP OF FIRST FLOOR = 100'-0" UNLESS NOTED OTHERWISE ON FOUNDATION PLAN. SEE FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR FLOOR SLOPES AND ADDITIONAL ELEVATIONS. VERIFY ALL SLOPES WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
- ② ELEVATION TOP OF FIRST FLOOR = 100'-0" = 456.32' SURVEY ELEVATION.
- ③ 6" SLAB-ON-GRADE CONSTRUCTION: 6" CONCRETE W/ #4@12 EACH WAY ON 6 MIL. VAPOR BARRIER AND 4" COMPACTED FILL.
- ④ 8" SLAB-ON-GRADE CONSTRUCTION: 8" CONCRETE W/ #4@12 EACH WAY, TOP AND BOTTOM ON 6 MIL. VAPOR BARRIER AND 8" COMPACTED FILL.
- ⑤ 16" SLAB-ON-GRADE CONSTRUCTION: 16" CONCRETE W/ #8@12 EACH WAY, TOP AND BOTTOM ON 6 MIL. VAPOR BARRIER AND 8" COMPACTED FILL.
- ⑥ FOUNDATION WALL AT ENTRANCES. PROVIDE #4@12-24"x24" L-BARS FROM FOUNDATION INTO ENTRANCE SLAB.
- ⑦ FOUNDATIONS SHALL BEAR ON UNDISTURBED SOIL. OR APPROVED PREVIOUSLY COMPACTED FILL MATERIAL. COORDINATE WITH SOILS ENGINEER. SEE FOUNDATION NOTE F1 ON SHEET S3.
- ⑧ ALL DIMENSIONS FOLLOWED WITH A ± SYMBOL SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF DIMENSION SENSITIVE ITEMS.
- ⑨ SLEEVE FOUNDATION FOR PLUMBING. COORDINATE SIZE AND LOCATIONS WITH ARCHITECTURAL AND PLUMBING DRAWINGS.
- ⑩ SUMP PUMP PIT. SEE ARCHITECTURAL DRAWINGS.
- ⑪ 12'-0" x 35'-0" DIAMETER TANK: TANK WEIGHT = 14,000 LBS. CONTENTS WEIGHT = 330,000 LBS. TOTAL WEIGHT = 344,000 LBS.
- ⑫ 8'-0" x 17'-6" DIAMETER TANK: TANK WEIGHT = 5,000 LBS. CONTENTS WEIGHT = 28,800 LBS. TOTAL WEIGHT = 33,800 LBS.
- ⑬ 5'-11" x 12'-0" DIAMETER TANK: TANK WEIGHT = 2,500 LBS. CONTENTS WEIGHT = 28,800 LBS. TOTAL WEIGHT = 31,300 LBS.
- ⑭ 5'-11" x 8'-0" DIAMETER TANK: TANK WEIGHT = 1,800 LBS. CONTENTS WEIGHT = 19,800 LBS. TOTAL WEIGHT = 21,600 LBS.
- ⑮ 10'-0" x 20'-6" DIAMETER TANK: TANK WEIGHT = 14,000 LBS. CONTENTS WEIGHT = 100,000 LBS. TOTAL WEIGHT = 114,000 LBS.



SECTION 2 S1
SCALE: 3/4" = 1'-0"



SECTION 3 S1
SCALE: 3/4" = 1'-0"



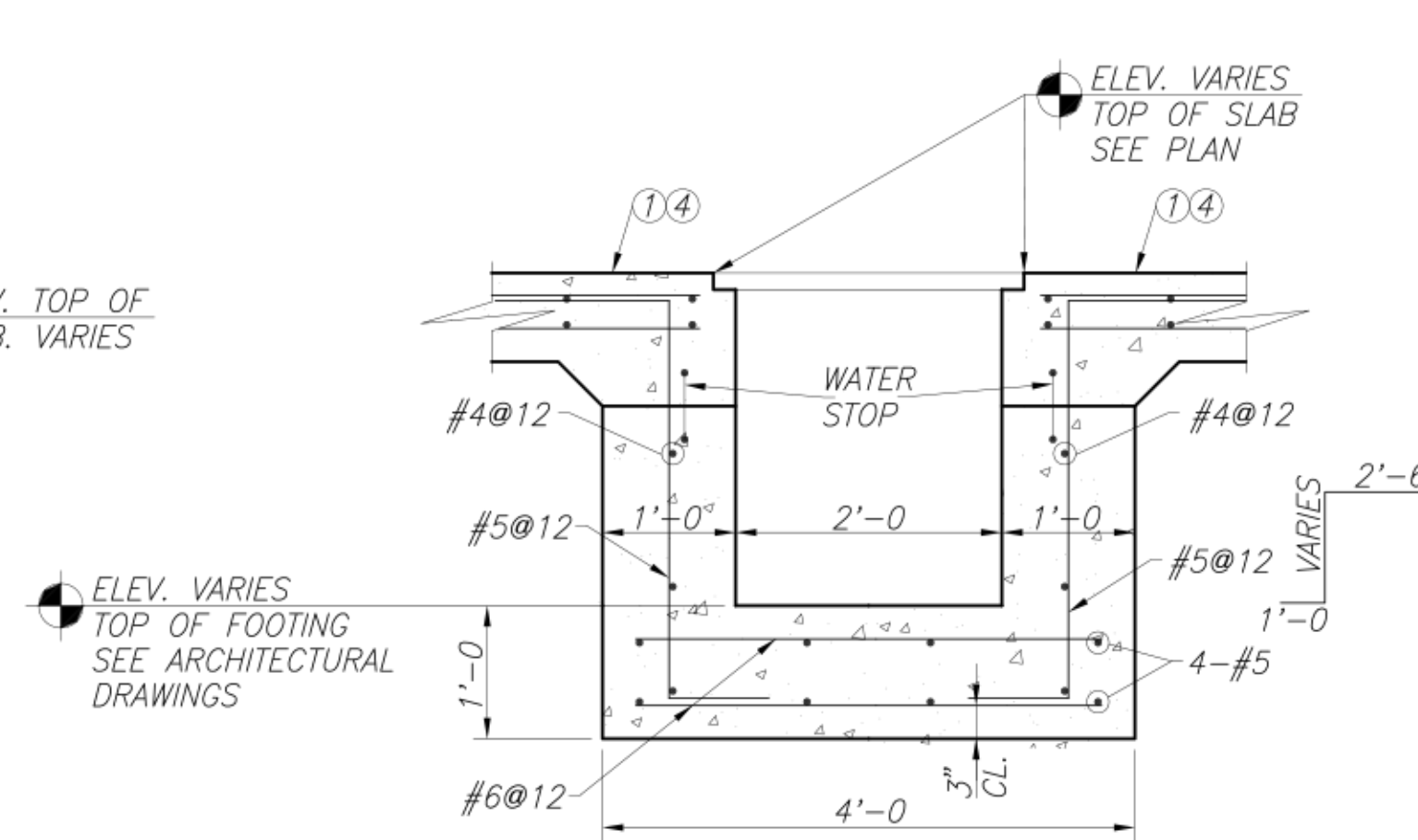
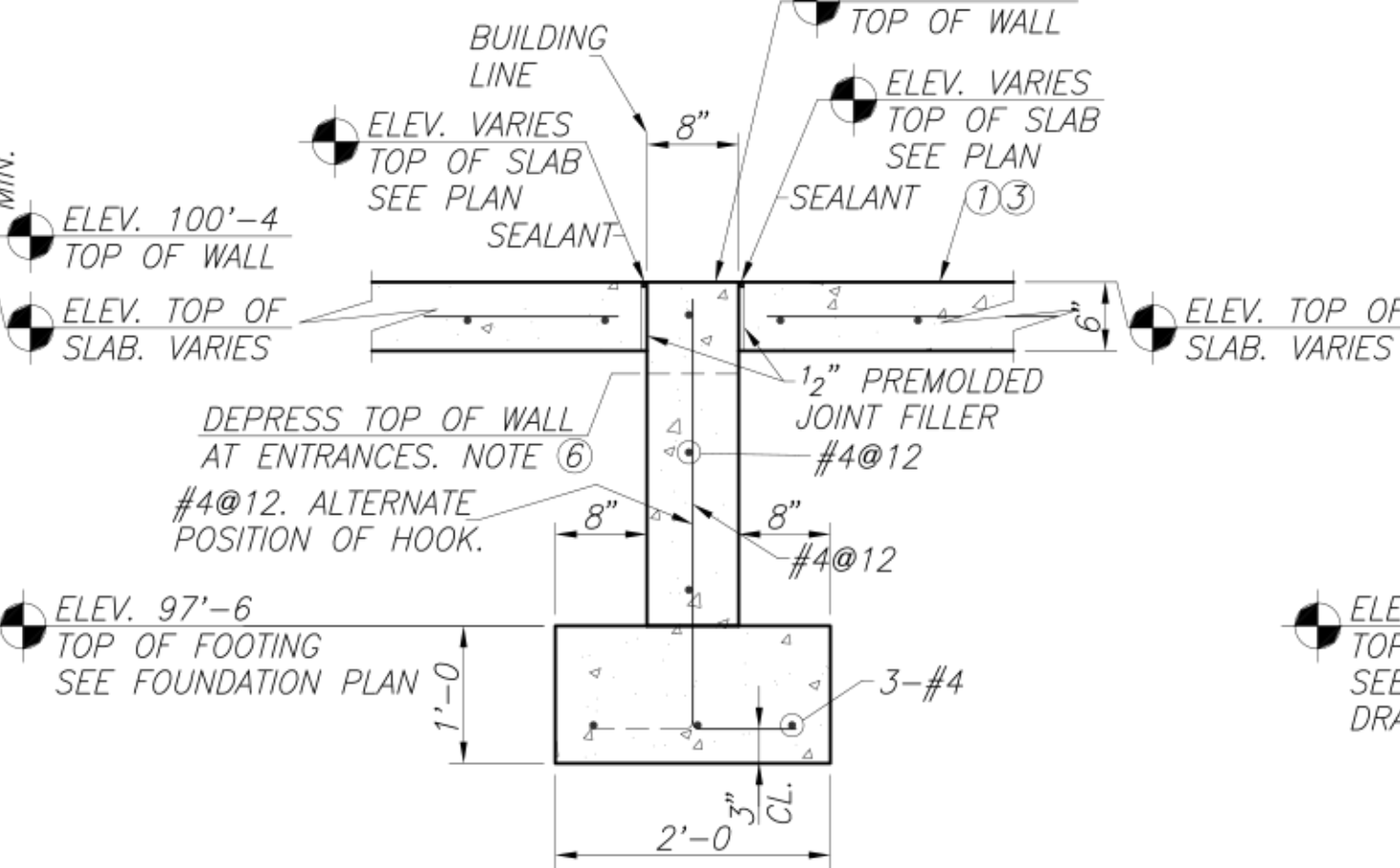
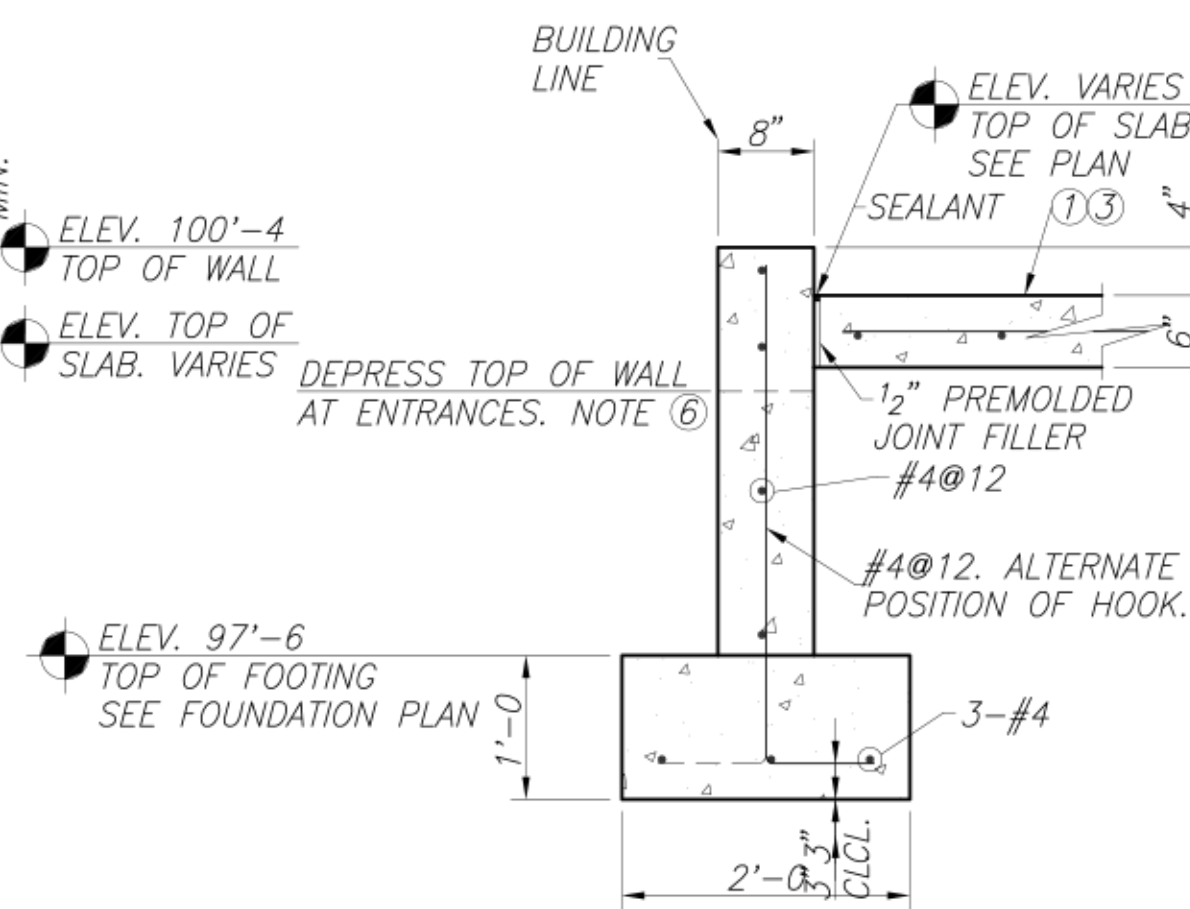
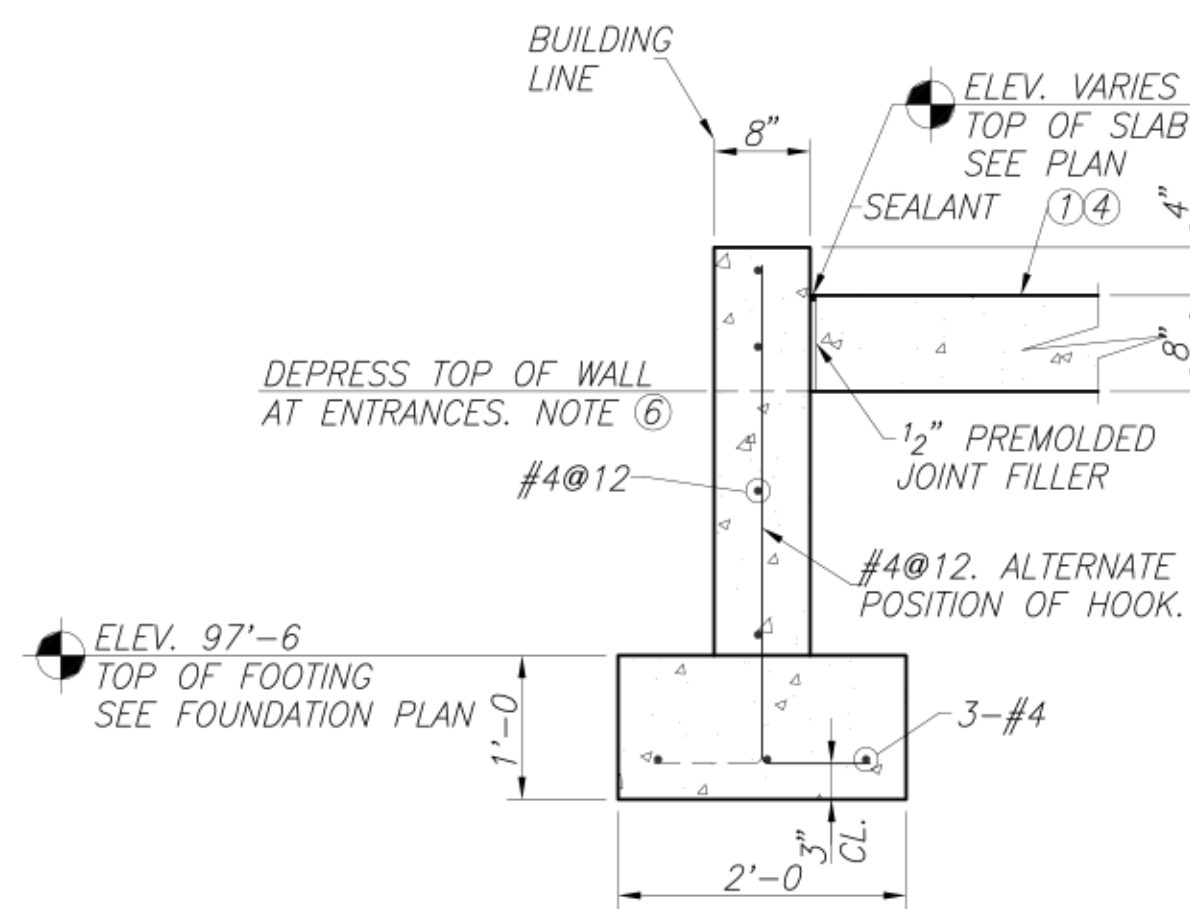
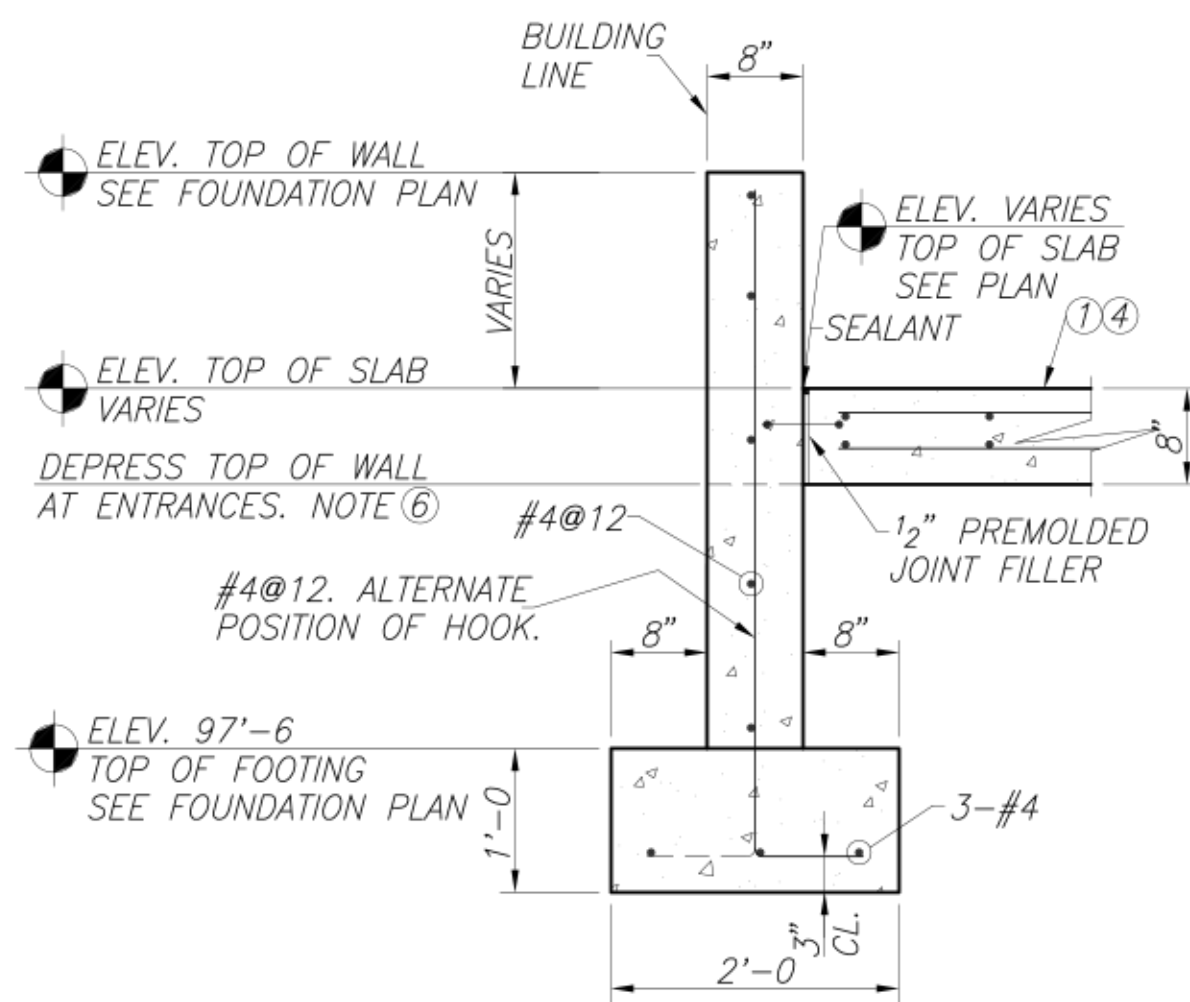
SECTION 4 S1
SCALE: 3/4" = 1'-0"

SECTION 4a S1
SCALE: 3/4" = 1'-0"

SECTION 4b S1
SCALE: 3/4" = 1'-0"

NOTE: CONTRACTOR SHALL OBTAIN AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE AND BE FULLY RESPONSIBLE FOR SAME.

FOUNDATION PLAN		PROJ. NO.: 1527
Helena Chemical Company New Chemical Building 1992 Old Grace Road Mendedosa, IL 62665		DATE: 11-6-15
		S1



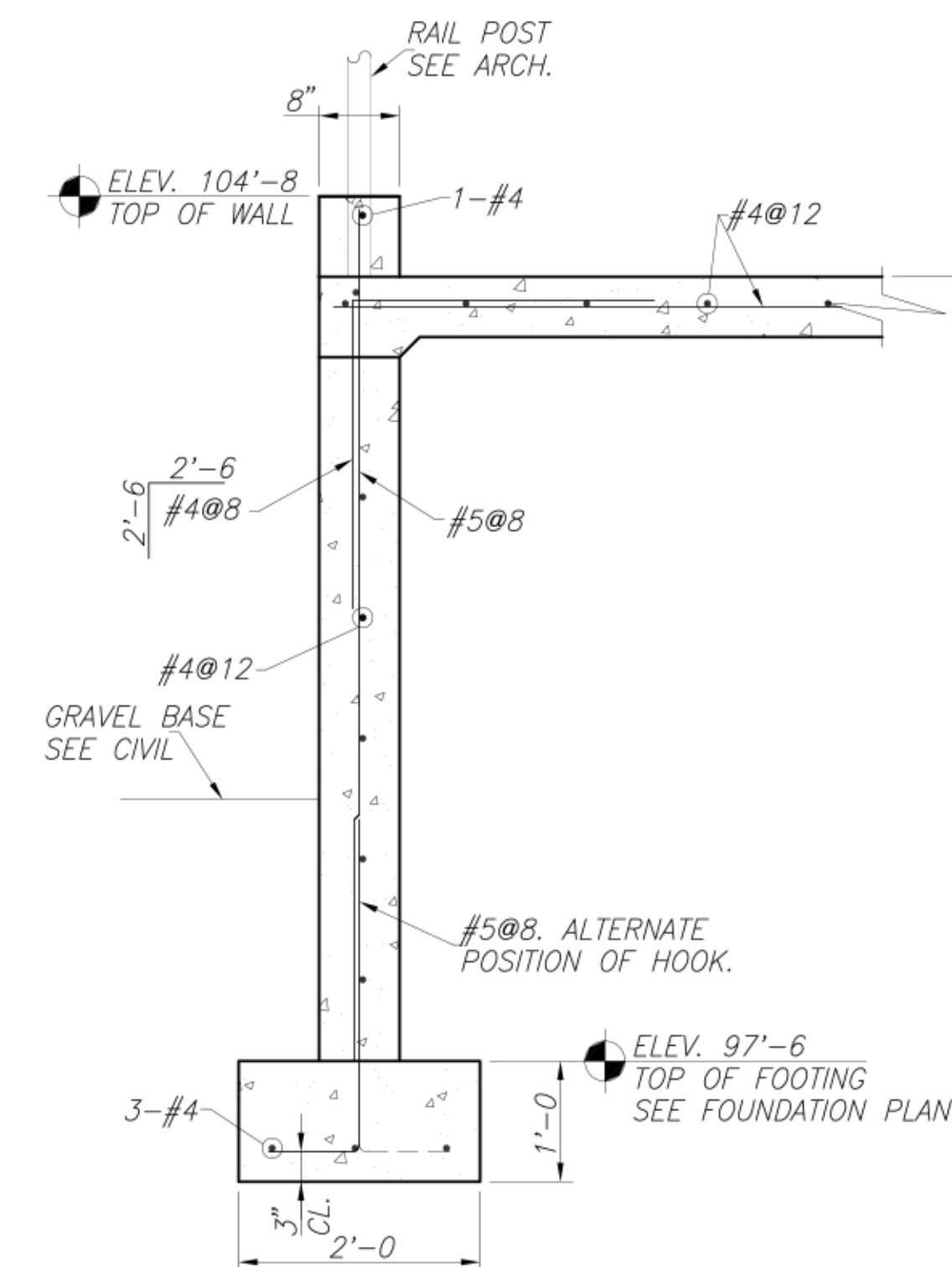
SECTION 1
SCALE: 3/4"=1'-0"

SECTION 2
SCALE: 3/4"=1'-0"

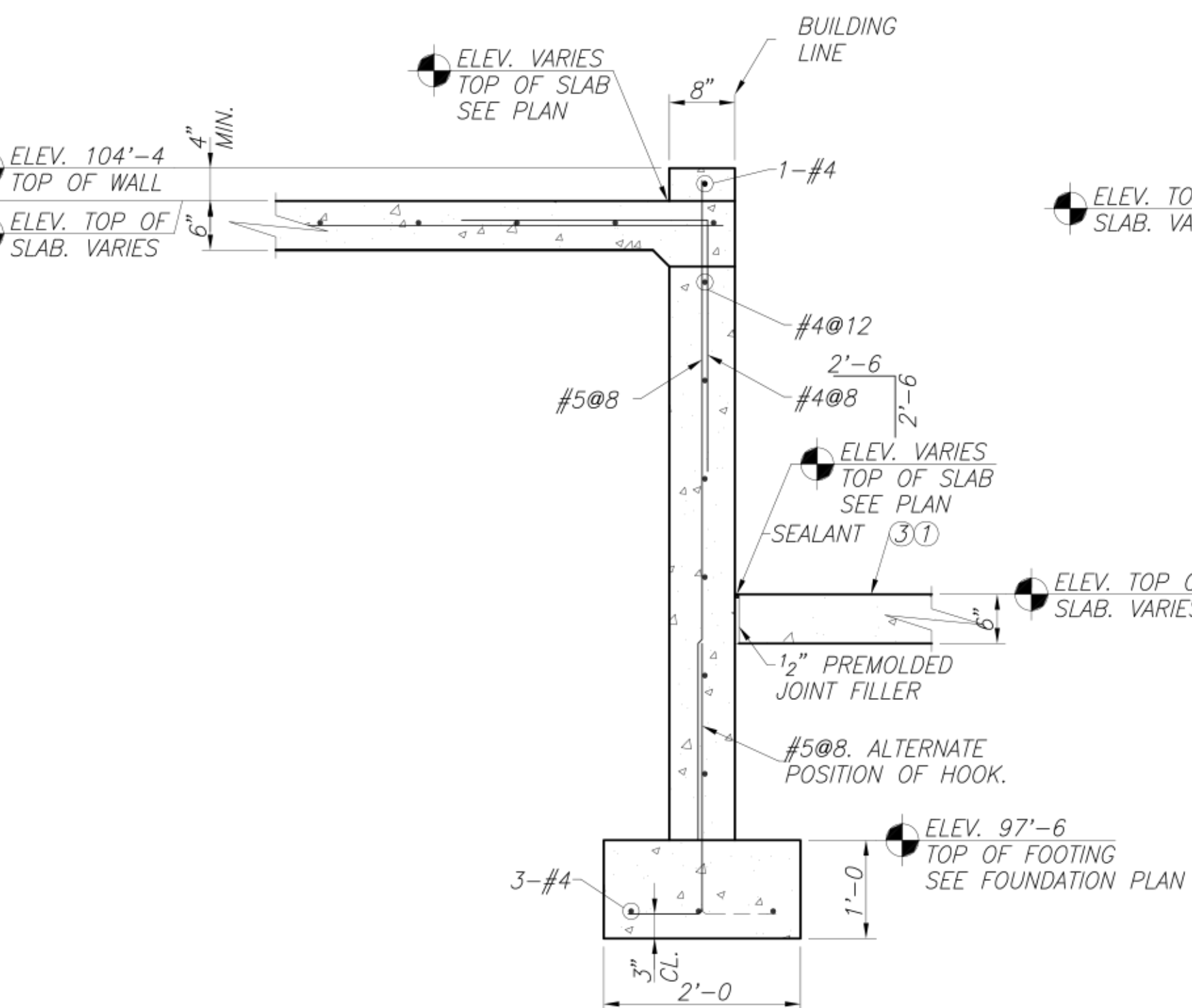
SECTION 3
SCALE: 3/4"=1'-0"

SECTION 4
SCALE: 3/4"=1'-0"

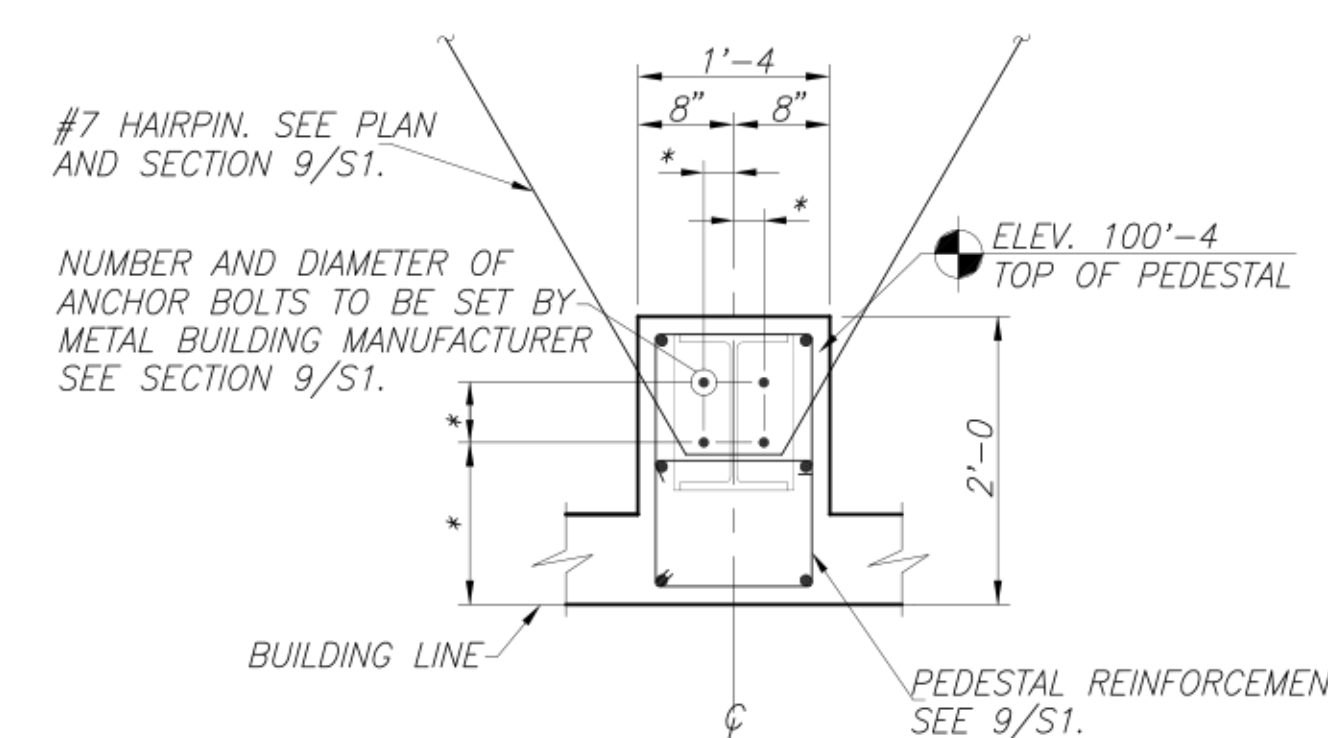
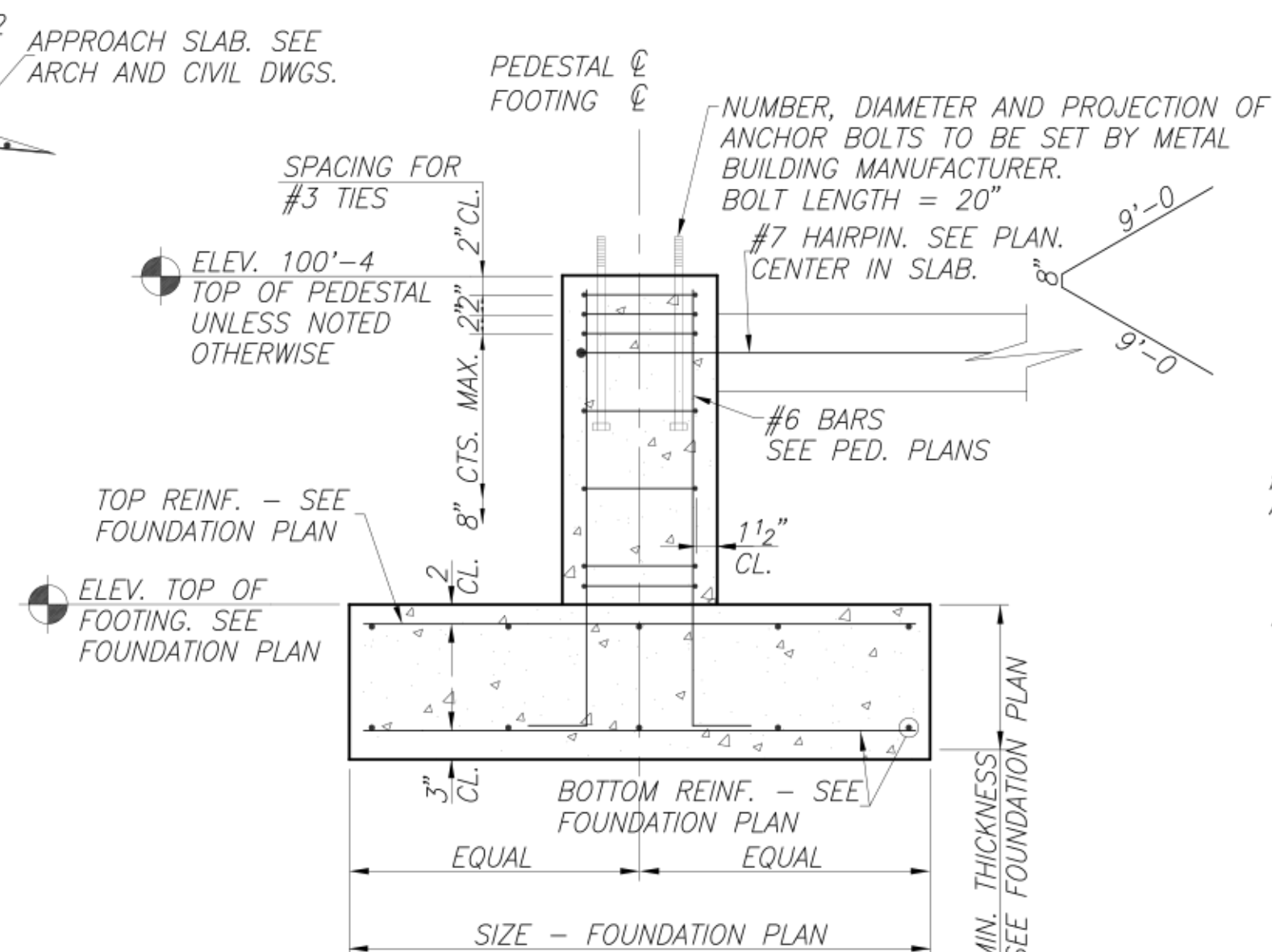
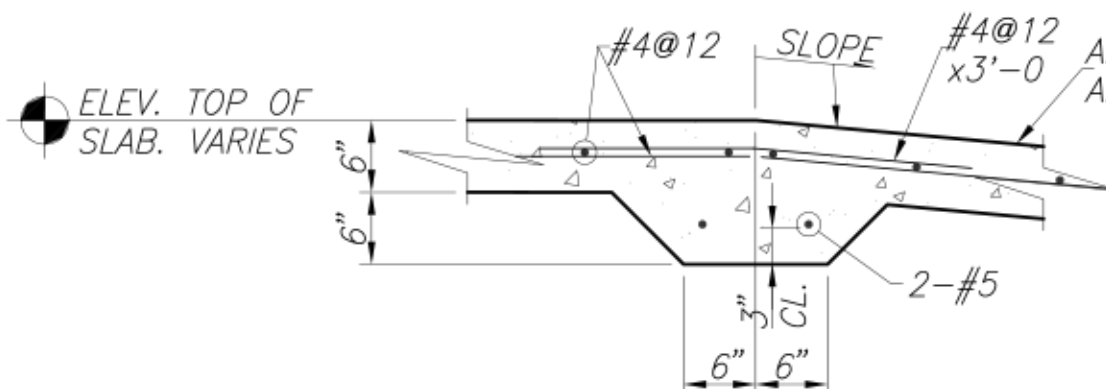
SECTION 5
SCALE: 3/4"=1'-0"



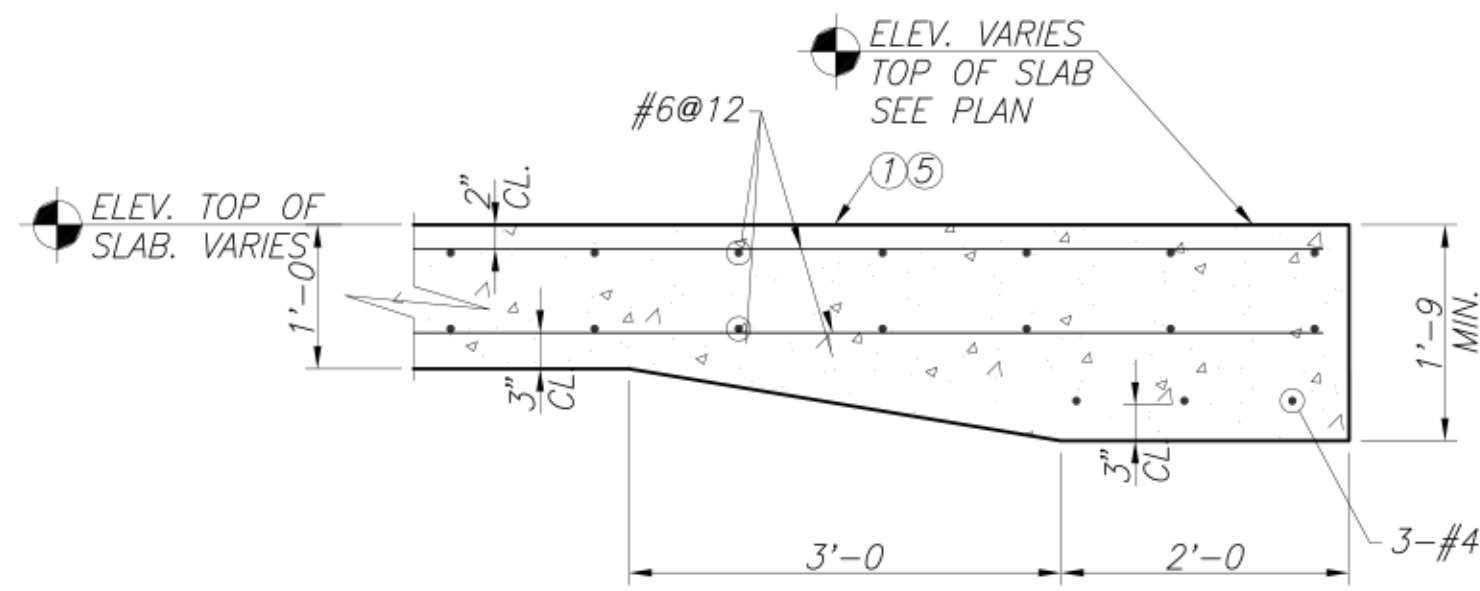
SECTION 6
SCALE: 3/4"=1'-0"



SECTION 7
SCALE: 3/4"=1'-0"



PEDESTAL AND ANCHOR BOLT DETAIL 9
SCALE: 3/4"=1'-0"



SECTION 10
SCALE: 3/4"=1'-0"

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FOUNDATION DETAILS	PROJ. NO.: 1527
	DATE: 11-6-15
Helena Chemical Company New Chemical Building 1992 Old Grace Road Moredosia, IL 62665	S2

GENERAL NOTES

GENERAL

G1. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND COORDINATE WORK SHOWN WITH ARCHITECTURAL, CIVIL, MECHANICAL AND METAL BUILDING DRAWINGS PRIOR TO CONSTRUCTION. IF DISCREPANCIES BETWEEN SAID DRAWINGS EXISTS THE A/E SHALL BE CONTACTED IMMEDIATELY TO RESOLVE THE DISCREPANCY.

G2. ALL DIMENSIONS, ELEVATIONS AND FLOOR SLOPES AFFECTED BY NEW CONSTRUCTION TO BE VERIFIED BY GENERAL CONTRACTOR BEFORE COMMENCING CONSTRUCTION.

FOUNDATIONS

F1. ALL FOOTINGS SHALL BEAR ON SOLID APPROVED COMPACTED EXISTING FILL OR APPROVED UNDISTURBED SOIL HAVING A NET BEARING CAPACITY OF 2,000 PSF (1.0 TSF). IF CAPACITY OF IS NOT OBTAINED AT INDICATED PLAN ELEVATIONS BOTTOMS MUST BE ADJUSTED. REQUIREMENTS IN ACCORD WITH GEOTECHNICAL REPORT BY TERRACON CONSULTANTS, INC., DATED SEPTEMBER 18, 2015.

F2. ALL FOOTING EXCAVATIONS SHALL BE FREE OF DEBRIS, STANDING WATER AND LOOSE SOIL PRIOR TO PLACEMENT OF CONCRETE.

F3. FOOTING CONCRETE SHALL NOT BE PLACED ON FROZEN SOIL.

F4. EXCAVATIONS THAT BECOME MUDDY AND SOFT DUE TO CONSTRUCTION ACTIVITY SHALL HAVE A LEAN CONCRETE MUD SLAB OR GRAVEL PLACED IN THE EXCAVATION TO PROVIDE ACCEPTABLE BEARING. MUD SLAB OR GRAVEL SHALL BE INSPECTED AND APPROVED BY SOILS ENGINEER.

STRUCTURAL STEEL

S1. SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, THIRTEENTH ADDITION, AISC SHALL GOVERN ALL STRUCTURAL AND MISCELLANEOUS STEEL WORK.

S2. ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 36 KSI.

DESIGN LOADS

DESIGN LOADS IN ACCORD WITH IBC 2012 BUILDING CODE

FOOTING DESIGN

ROOF DEAD LOAD 20 POUNDS PER SQUARE FOOT
LIVE LOAD 20 POUNDS PER SQUARE FOOT – NON–REDUCIBLE

METAL BUILDING

ROOF DEAD LOAD–COLLATERAL LOAD 3 POUNDS PER SQUARE FOOT
DEAD LOAD–BUILDING SELF–WEIGHT DETERMINED BY MBM
LIVE LOAD 20 POUNDS PER SQUARE FOOT – NON–REDUCIBLE

SNOW LOAD INFORMATION

GROUND SNOW LOAD, Pg = 20 POUNDS PER SQUARE FOOT
FLAT ROOF SNOW LOAD, Pf = 14.0 POUNDS PER SQUARE FOOT (NON–REDUCIBLE)
SNOW EXPOSURE FACTOR, Ce = 1.0
SNOW LOAD IMPORTANCE FACTOR, Is = 1.0
THERMAL FACTOR, Ct = 1.0

WIND LOAD INFORMATION

BASIC WIND SPEED = 115 MPH
IMPORTANCE FACTOR, Iw = 1.00
WIND EXPOSURE = C
INTERNAL PRESSURE COEFFICIENT, GCpi = +0.18, –0.18.
COMPONENT AND CLADDING WIND PRESSURES IN ACCORD WITH IBC 2012.

SEISMIC LOAD INFORMATION BASED ON IBC 2012

SEISMIC IMPORTANCE FACTOR, Ie = 1.0.
MAPPED SPECTRAL RESPONSE COEFFICIENTS, Ss = 0.179, S1 = .097.
SEISMIC DESIGN CATEGORY, D
SPECTRAL RESPONSE COEFFICIENTS, SDS = 0.299 SD1 = 0.225.
SITE CLASS E
BASIC SEISMIC FORCE RESISTING SYSTEMS – DETERMINED BY MBM
DESIGN BASE SHEAR – DETERMINED BY MBM
SEISMIC RESPONSE COEFFICIENT, Cs – DETERMINED BY MBM
RESPONSE MODIFICATION FACTOR, R – DETERMINED BY MBM
ANALYSIS PROCEDURE: DETERMINED BY MBM

CONCRETE

C1. THE A.C.I. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318–05) SHALL DETERMINE ALL REINFORCED CONCRETE DETAIL WORK NOT SHOWN OR SPECIFIED.

C2. BAR SUPPORTS AND ACCESSORIES SHALL BE IN ACCORDANCE WITH MANUAL OF STANDARD PRACTICES FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315–LATEST ADDITION).

C3. ALL CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A MINIMUM 28–DAY STRENGTH OF 4,000 PSI.

C4. ALL CONCRETE EXPOSED TO THE WEATHER SHALL BE AIR–ENTRAINED, TO PRODUCE AN AIR CONTENT OF 6% (+OR– 1%). INTERIOR CONCRETE SHALL NOT BE AIR–ENTRAINED.

C5. MATERIALS: CONCRETE MATERIALS SHALL CONFORM TO THE FOLLOWING:
CEMENT: ASTM C160 TYPE 1.
CONCRETE AGGREGATES: ASTM C33.
COARSE AGGREGATE GRADATION: ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) GRADATIONS: CA–7 (1½”), CA–11 (1”) OR CA–14 (½”).
MIXING WATER: FREE FROM INJURIOUS AMOUNTS OF IMPURITIES.
AIR ENTRAINING ADMIXTURE: ASTM A260.
WATER REDUCING ADMIXTURES: ASTM C494 OR ASTM 1017 TO PRODUCE W/C 0.40 OR LESS.
FLY ASH: ASTM C818, CLASS F OR CLASS C.

C6. SUBMITTALS CONTRACTOR SHALL SUBMIT MIX DESIGN FOR EACH TYPE OF CONCRETE TO BE USED SHOWING CONCRETE MATERIALS, 28–DAY STRENGTHS, SLUMP AND AIR–CONTENT.

C7. EACH MIX DESIGN: CONCRETE SHALL BE PROPORTIONED IN ACCORDANCE WITH CHAPTER 5 OF ACI 318.

C8. CONCRETE MIXING, HANDLING AND PLACEMENT IN ACCORDANCE WITH CHAPTER 5 ACI 318.

C9. SAMPLING AND TESTING: OWNER’S CONCRETE TESTING FIRM SHALL SAMPLE FRESH CONCRETE IN ACCORDANCE WITH CHAPTER 5 OF ACI 38 ANS ASTM C172. FOR EACH SAMPLE:
TEST AIR–CONTENT IN ACCORDANCE WITH ASTM C173 OR ASTM C231.
TEST SLUMP IN ACCORDANCE WITH ASTM C143.
TEST CONCRETE TEMPERATURE IN ACCORDANCE WITH ASTM.
PREPARE THREE CYLINDERS IN ACCORDANCE WITH ASTM C31. TEST CONCRETE COMPRESSIVE STRENGTH OF CYLINDERS AT 7–DAYS AND 28–DAYS IN ACCORDANCE WITH ASTM C39.

C10. CURING: CONCRETE SHALL BE MAINTAINED ABOVE 50°F IN A MOIST CONDITION FOR AT LEAST THE FIRST 7–DAYS AFTER PLACEMENT. ACCEPTABLE METHODS OF CURING INCLUDE THE FOLLOWING:
SPRAYING WITH TWO COATS OF CURING COMPOUND APPLIED AT 90 DEGREES FROM EACH OTHER.
COVERING WITH WET BURLAP.
FLOODING OR SPLINKLING WITH WATER.

C11. HOT WEATHER: CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING MIXING, HANDLING, PLACING, PROTECTION, AND CURING METHODS TO PREVENT IMPAIRMENT OF PERFORMANCE OF THE CONCRETE.

C12. COLD WEATHER: CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING MIXING, HANDLING, PLACING, PROTECTION, AND CURING METHODS TO PREVENT IMPAIRMENT OF PERFORMANCE OF THE CONCRETE. FROZEN MATERIALS OR MATERIALS CONTAINING ICE SHALL NOT BE USED. ALL MATERIALS WITH WHICH CONCRETE IS TO COME IN CONTACT SHALL BE FREE FROM FROST.

C13. REINFORCEMENT SHALL BE ASTM A 615, GRADE 60.

C14. CLEARANCES FOR REINFORCEMENT ARE AS NOTED ON THE DRAWINGS.

C15. THE CONTRACTOR SHALL MAKE ALLOWANCE FOR DEAD LOAD DEFLECTION, SETTLEMENT OF FORMS, AND SHRINKAGE OF CONCRETE WHEN CONSTRUCTING OF CONCRETE WORK.

C16. THE CONTRACTOR ALONE IS RESPONSIBLE FOR THE ADEQUACY OF ALL FORMS, SHORING, BRACING, ETC. USED IN CONSTRUCTION OF CONCRETE WORK.

C17. HORIZONTAL BARS IN FOOTINGS AND FOUNDATION WALLS TO RUN CONTINUOUS, UNLESS NOTED OTHERWISE, LAP 30 BAR DIAMETERS OR 2’–0 MINIMUM. PROVIDE CORNER BARS AT CORNERS AND TEE INTERSECTIONS LAP 30 BAR DIAMETERS OR 2’–0 MINIMUM.

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