STRUCTURAL NOTES

1. DESIGNED IN ACCORDANCE WITH THE CURRENT WISCONSIN COMMERCIAL BUILDING CODE BASED ON 2009 INTERNATIONAL BUILDING CODE 2. DESIGN LOADS:

A. ROOF DEAD LOAD — RESTAURANT: 10.0 PSF ROOF MEMBRANE AND BALLAST 2.5 PSF 1½" METAL ROOF B-DECK, 20 GA. 6.0 PSF INSULATION

22.5 PSF TOTAL ROOF DEAD LOAD

5.0 PSF MEMBRANE & INSULATION (NO BALLAST)

A.2 ROOF DEAD LOAD BEAR AND SEAL: 76.0 PSF 10" PRECAST PLANK

81.0 PSF TOTAL DEAD B. COLLATERAL GRAVITY LOAD:

4.0 PSF FRAMING

3.0 PSF MISC. MECHANICAL 3.0 PSF SPRINKLERS 2.0 PSF CEILING ALLOWANCE 8.0 PSF TOTAL COLLATERAL GRAVITY LOAD

SEE PLAN AND MEP FOR ROOF MOUNTED EQUIPMENT

C. ROOF LIVE LOAD:

20 PSF REDUCIBLE D. DESIGN SNOW LOAD:

> Pq = 30 PSFPf = 0.7(Ce)(Ct)(I)(Pg) = 21.0 PSFCe = 1.0

Cs = 1.0Ct = 1.0I = 1.0

DRIFTING SNOW: SEE PLANS FOR SNOW DRIFT DIAGRAMS

WIND DESIGN CRITERIA WIND SPEED = 90 MPH

> EXPOSURE = CI = 1.00Kzt = 1.0

GCpi = +/- .018F. SEISMIC DESIGN CRITERIA

SEISMIC USE GROUP = ISs = 10.5%; S1 = 4.4%SITE CLASS = DSDS = 0.112; SD1 = 0.070

SEISMIC DESIGN CATEGORY = B SEISMIC RESISTING SYSTEM = ORDINARY PRECAST SHEAR WALLS DESIGN BASE SHEAR = 0.038*W

G. ASSUMED SOIL LOAD: GRANULAR BACK FILL

> ACTIVE EQV. FLUID PRESSURE = 30 PSF AT REST EQV. FLUID PRESSURE = 60 PSF

PROVIDE BACK FILL SOILS APPROVED BY GEOTECHNICAL ENGINEER TO MEET THIS DESIGN ASSUMPTION. PROVIDE DRAIN TILE BEHIND ALL RETAINING WALLS TO DRAIN WATER.

1. 1. MAXIMUM ALLOWABLE DEFLECTION CRITERIA PER IBC:

ROOF VERTICAL: WALL HORIZONTAL:

H/200

2. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON NEW OR EXISTING STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.

<u>GENERAL:</u>

L/360 LIVE, L/240 TOTAL

3. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING AND FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.

4. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION AND ALL JOB SITE SAFETY.

5. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER AND ARCHITECT OF ANY DISCREPANCY IMMEDIATELY.

6. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL BUILDING MATERIALS AND COMPONENTS. COMPONENT LOCATIONS ARE SHOWN FOR DESIGN INTENT, NOT EXACT LOCATION, UNLESS NOTED SPECIFICALLY. INDEPENDENTLY PREPARED SHOP DRAWINGS ARE REQUIRED OF ALL TRADES FOR COORDINATION AND BEST PRACTICE. ERRORS OR OMISSIONS IN INSTALLATION DUE TO THE CONTRACTOR'S FAILURE TO COORDINATE THE WORK WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR

FOUNDATION:

1. ALLOWABLE SOIL BEARING CAPACITY = 2,000 PSF/2,500 PSF. SEE GEOTECHNICAL REPORT FOR LOCATION.

GEOTECHNICAL INFORMATION TAKEN FROM: CGC. INC GEOTECHNICAL EXPLORATION REPORT PROPOSED ARCTIC EXHIBIT

HENRY VILAS ZOO MADISON, WI

2. PROJECT GEOTECHNICAL REPORT SUPERSEDES GEOTECHNICAL INFORMATION PROVIDED ON STRUCTURAL PLANS.

3. WHEN IT IS POSSIBLE FOR GROUND WATER TO SEEP TOWARD SUBGRADE FOUNDATIONS AND RETAINING WALLS. THESE WALLS SHALL HAVE A POSITIVE DRAINAGE SYSTEM AT THE BASE OF THE WALL CONSISTING OF A PERFORATED DRAIN PIPE PROTECTED BY A GEOTEXTILE FABRIC SURROUNDED BY CONCRETE SAND (TORPEDO SAND). NEAR THE BASE OF THE WALL. OTHER BACK FILL MATERIAL SHALL BE SAND WITH LESS THAN 12% PASSING THE #200 SIEVE.

4. DO NOT USE EXCESSIVE COMPACTION EFFORTS ADJACENT TO BASEMENT OR RETAINING WALLS. SUCCESSIVE PASSES OF A COMPACTOR CAN RESULT IN WALL PRESSURE BUILD UP BEYOND THE DESIGN INTENT.

5. REFER TO THE GEOTECHNICAL INVESTIGATION FOR INFORMATION REGARDING EXCAVATION, SIDE SLOPES, SUB-GRADE PREPARATION, AND FILL

6. PROVIDE SUB-GRADE PREPARATION AS PER THE PLANS OR PROJECT GEOTECHNICAL REPORT.

7. REMOVE TOPSOIL FROM BENEATH ALL PROPOSED CONSTRUCTION AREAS. SALVAGE AND STOCK PILE TOPSOIL, CUT/FILL MATERIAL AS NECESSARY TO MATCH GRADES SHOWN ON DRAWINGS.

8. SEE CIVIL & ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR ELEVATION.

9. GRADE AREAS IN ACCORDANCE WITH ELEVATIONS AND GRADES SHOWN ON THE SITE DRAWINGS AND AS REQUIRED FOR DRAINAGE.

10. SLAB ON GROUND TO BE CONSTRUCTED ON A MINIMUM OF 6"OF CRUSHED STONE OR GRANULAR FILL COMPACTED TO 95% MODIFIED PROCTOR OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

11. ALL FILL MATERIAL USED IN GRADING OPERATIONS SHALL CONSIST OF EARTH, WHICH IS FREE OF DEBRIS, BOULDERS OR ORGANIC MATERIAL. FILL SHALL BE PLACED IN MAXIMUM OF 12"LIFTS AND COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

12. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 4'-0" BELOW FINISHED GRADE (EXCEPT AT POOL WALLS- SEE PLAN).

13. ALL FOOTINGS SHALL BEAR ON A MINIMUM OF 10" COMPACTED FILL OR AS DIRECTED BY THE SOIL REPORT HAVING A MINIMUM ALLOWABLE BEARING CAPACITY EQUAL TO THE PRESUMPTIVE CAPACITY ABOVE.

14. THE ENGINEER SHALL BE NOTIFIED IF ACTUAL FIELD CONDITIONS DO NOT MEET BEARING REQUIREMENTS, OR IF QUESTIONABLE SOIL CONDITIONS ARE DISCOVERED INCLUDING BUT NOT LIMITED TO PEAT AND OTHER HIGH ORGANIC SOILS.

15. ALL BEARING SOIL OR FILL MUST BE PROTECTED FROM FREEZING. THE CONTRACTOR SHALL PROVIDE PROTECTION TO PREVENT FROST PENETRATION BELOW THE CONCRETE BEARING ELEVATIONS. ANY FROZEN SOIL BELOW THE FOUNDATION BEARING LEVEL MUST BE REMOVED PRIOR

16. ALL SLABS ON GRADE AREAS SHALL BE PROOF ROLLED. ALL SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH COMPACTABLE FILL.

CONCRETE CONSTRUCTION:

1. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM TO THE LOCAL BUILDING CODE REQUIREMENTS AND THOSE OF THE LATEST EDITION OF THE FOLLOWING STANDARDS: ACI 318, ACI 315, ACI 301, AND ACI 305 & 306.

2. ALL CONCRETE UNLESS SPECIFICALLY NOTED SHALL BE NORMAL WEIGHT (145 PCF) AND SHALL ACHIEVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'c) AS FOLLOWS: 2.1. FOOTINGS BELOW FROST LINE: f'c = 3,000 PSIEXTERIOR FOUNDATION WALLS AND GRADE BEAMS

THAT ARE EXPOSED TO FREEZING: f'c = 4,000 PSI2.3. SITE RETAINING WALLS & FOOTINGS: f'c = 4,000 PSIf'c = 4,000 PSI2.4. POOL WALLS & FOOTINGS: 2.5. ALL OTHER CONCRETE: f'c = 3,000 PSI

3. ALL CONCRETE SUBJECT TO EXTERIOR EXPOSURE SHALL BE AIR ENTRAINED TO 6% (+/- 1.5%) AND HAVE A MAXIMUM 1"AGGREGATE. ALL CONCRETE WITHOUT SUPERPLASTICIZERS SHALL HAVE A MAXIMUM SLUMP OF 4".

4. ALL SLABS ON GROUND SHALL BE A MINIMUM 6-BAG MIX.

5. UNLESS THE MIX DESIGN INCLUDES THE USE OF SUPERPLASTICIZERS, CONCRETE WITH A SLUMP GREATER THAN 5" SHALL BE REFUSED.

6. ALL CONCRETE REINFORCING STEEL TO BE ASTM A615 GRADE 60. ALL WELDED WIRE FABRIC (WWF) TO BE ASTM A-185. ALL REINFORCING SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315 AND 315R.

7. ALL REINFORCING BARS AND WWF SHALL BE SET ON CHAIRS AND TIED IN PLACE.

8. CONCRETE SLABS ON GROUND CONTAINING WELDED WIRE REINFORCEMENT FABRIC (WWF) SHALL HAVE THE WWF LOCATED IN THE MIDDLE TO THE UPPER ONE-THIRD OF THE SLAB. WELDED WIRE REINFORCEMENT FABRIC SHALL BE SUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACING NOT TO EXCEED 3 FEET (914 MM) OR IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. WELDED PLAIN WIRE REINFORCEMENT FABRIC FOR CONCRETE SHALL CONFORM TO ASTM A 185.

9. AFTER CONCRETING HAS STARTED, IT SHALL BE CARRIED ON AS A CONTINUOUS OPERATION UNTIL PLACING OF A PANEL OR SECTION, AS DEFINED BY ITS BOUNDARIES OR PREDETERMINED JOINTS, IS COMPLETED. CONCRETE SHALL BE DEPOSITED AS NEARLY AS PRACTICABLE TO ITS FINAL POSITION TO AVOID SEGREGATION DUE TO REHANDLING OR FLOWING.

10. CONCRETING OPERATIONS SHALL BE CARRIED ON AT SUCH A RATE THAT THE CONCRETE IS AT ALL TIMES PLASTIC AND FLOWS READILY INTO SPACES BETWEEN REINFORCEMENT.

11. CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY SUITABLE MEANS DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND INTO CORNERS OF THE FORMS. THE TOP SURFACES OF VERTICALLY FORMED LIFTS SHALL BE

12. CONCRETE SHALL BE CURED ABOVE 50°F (10°C) AND IN A MOIST CONDITION FOR AT LEAST THE FIRST SEVEN DAYS AFTER PLACEMENT.

13. ALL FLAT WORK CONCRETE SHALL BE COVERED IMMEDIATELY FOLLOWING SAW CUTTING AND MAINTAINED CONTINUOUSLY WET FOR A MINIMUM OF 7-DAYS AFTER PLACING, CURING SHEETS ARE TO BE USED AND REMAIN IN PLACE. CURING COMPOUNDS MAY BE USED AND MUST BE APPLIED PER THE MANUFACTURES RECOMMENDATIONS. SUBMIT PRODUCT DATA TO A/E FOR APPROVAL.

14. RETEMPERED CONCRETE, CONCRETE THAT HAS BEEN REMIXED AFTER INITIAL SET OR PARTIALLY HARDENED SHALL NOT BE USED IN THE

15. ALL LAPS SHALL BE "B" SPLICES UNLESS NOTED OTHERWISE ON THE DRAWINGS OR UNLESS SPECIAL CARE IS TAKEN FOR THE REINFORCING TO BE DETAILED AND PLACED TO PROVIDE STAGGERED LAPS.

16. ALL CONCRETE SHALL BE CURED FOR A MINIMUM OF SEVEN DAYS.

17. UNLESS OTHERWISE APPROVED, ALL EXPOSED CONCRETE WALLS SHALL BE CURED WITH FORMS LEFT IN PLACE FOR SEVEN DAYS. IF FORMS CAN NOT BE LEFT IN PLACE THE CONTRACTOR SHALL SUBMIT IN WRITING TO THE ENGINEER ALL PROPOSED CURING METHODS.

18. WALL CRACKS DUE TO IMPROPER CURING METHODS, OR WEATHER PROTECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. 19. MINIMUM EMBEDMENT UNLESS NOTED OTHERWISE. THREADED RODS SHALL HAVE A NUT AND WASHER SECURED TO THE EMBEDDED END EITHER BY WELD OR DOUBLE NUT.

20. GROUT USED TO PROVIDE LEVEL BEARING OF COLUMN BASE PLATES SHALL BE NON-SHRINK, NON-METALLIC GROUT WITH A COMPRESSIVE STRENGTH 500 PSI OR MORE GREATER THAN THE COMPRESSIVE STRENGTH OF THE SUPPORTING CONCRETE MEMBER.

21. UNLESS NOTED OTHERWISE ON THE DRAWINGS ALL REINFORCING SHALL BE LAPPED TO DEVELOP ITS CAPACITY AS FOLLOWS:

_	o b		01101110 01111121			
	BAR SIZE	"A" SPLICE	"A" SPLICE TOP BAR	"B" SPLICE	"B" SPLICE TOP BAR	
	#3	13"	16"	16"	21"	
	#4	17"	22"	22"	29"	
	# 5	21"	27"	27"	35"	
	#6	25"	32"	32"	42"	
	# 7	33"	43"	43"	56"	
	#8	48"	62"	61"	81"	
	#10	60"	78"	78"	102"	

MULTIPLY B-SPLICE LENGTHS BY 1.3 FOR TOP BAR CONDITIONS. TOP BARS ARE HORIZONTAL BARS WITH 12 INCHES OR MORE OF CONCRETE BELOW. MULTIPLY SPLICE LENGTHS BY 1.5 WHEN USING EPOXY COATED REBAR.

22. SLAB-ON-GRADE SHALL HAVE CLASS "A" TOLERANCE.

23. A 6-MIL. (MIN.) POLYETHYLENE VAPOR BARRIER WITH JOINTS LAPPED NOT LESS THAN 6"SHALL BE PLACED BETWEEN THE BASE COURSE OR SUBGRADE AND THE CONCRETE FLOOR.

24. CALCIUM CHLORIDE AND OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.

25. PLACING OF CONCRETE SHALL BE DONE IN CONFORMANCE WITH ACI-306 FOR COLD WEATHER AND ACI-305 FOR HOT WEATHER

26. WHEN IT IS POSSIBLE FOR GROUND WATER TO SEEP TOWARD SUBGRADE FOUNDATIONS AND RETAINING WALLS, THESE WALLS SHALL HAVE A POSITIVE DRAINAGE SYSTEM AT THE BASE OF THE WALL CONSISTING OF A PERFORATED DRAIN PIPE PROTECTED BY A GEOTEXTILE FABRIC SURROUNDED BY CONCRETE SAND (TORPEDO SAND) NEAR THE BASE OF THE WALL. OTHER BACK FILL MATERIAL SHALL BE SAND WITH LESS THAN 12% PASSING THE #200 SIEVE.

27. DO NOT USE EXCESSIVE COMPACTION EFFORTS ADJACENT TO BASEMENT OR RETAINING WALLS. SUCCESSIVE PASSES OF A COMPACTOR CAN RESULT IN WALL PRESSURE BUILD UP BEYOND THE DESIGN INTENT.

28. EXPOSED FOUNDATION WALLS SHALL HAVE VERTICAL CONTROL JOINTS SPACED NOT MORE THAN 25'-0" ON CENTER. EACH JOINT SHALL BE 3/4" WIDE BY 1/4 WALL DEPTH DEEP AND V-CHAMFERED ON BOTH SIDES. HORIZONTAL WALL REINFORCING SHALL BE DISCONTINUOUS AT THE CONTROL JOINT LOCATION. THE LOCATION OF WALL CONTROL JOINTS SHALL BE MID BAY BETWEEN COLUMNS.

29. EXPOSED FOUNDATIONS WALLS SHALL HAVE EXPANSION JOINTS LOCATED AT EVERY FOURTH CONTROL/CONTRACTION JOINT. SEE CONCRETE DETAILS FOR SPECIFIC CONSTRUCTION REQUIREMENTS.

30. CONSTRUCTION JOINTS SHALL BE LOCATED AT CONTROL JOINTS OR CONTRACTION JOINTS.

31. FLOOR SLAB CONTROL JOINTS SHALL FOLLOW THE INTENT SHOWN ON THE PLAN BUT SHALL NOT EXCEED AN ASPECT RATIO OF 1.5 TO 1.0. ALL REENTRANT CORNERS SHALL HAVE CONTROL JOINTS EXTENDING OUT FROM THE INSIDE CORNER. DEAD-END "T" CONTROL JOINTS INTO CONTINUOUS JOINTS SHALL BE AVOIDED.

32. PIPE SLEEVES OVER 1—½"Ø WHICH PASS THROUGH CONCRETE WALLS OR SLABS SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE. ALL OTHER SLEEVES SHALL BE 18 GAUGE SHEET METAL. SLEEVES SHALL BE ONE SIZE LARGER THAN OUTSIDE DIAMETER OF PIPE PASSING THROUGH SLEEVE. VERIFY SIZE AND NUMBER WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS.

33. ALUMINUM CONDUIT SHALL NOT BE EMBEDDED IN CONCRETE.

PRECAST CONCRETE CONSTRUCTION:

1. THE DESIGN OF ALL PRECAST UNITS SHALL CONFORM TO IBC 2009 AND THE FOLLOWING STANDARDS: ACI 318.

2. REINFORCING STEEL BARS SHALL CONFORM TO ASTM A615.

3. PRESTRESSING STRAND SHALL CONFORM TO ASTM A416, GRADE 250K OR 270K. 4. ALL PRECAST MEMBERS SHALL BE DESIGNED FOR THE LOADS SHOWN ON THE DRAWINGS AND AS INDICATED IN THE GENERAL NOTES.

5. THE DESIGN OF ALL PRECAST UNITS AND CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE PRECASTER.

6. ALL FLOOR PLANK SHALL BE DESIGNED AS NON-COMPOSITE WITH ANY FLOOR TOPPING.

7. SUBMIT SHOP DRAWINGS SHOWING LAYOUT, MARKS, MANUFACTURING DETAILS, PLANS, ELEVATIONS, ANCHORAGES, REINFORCEMENT, CONNECTION DETAILS AND METHODS, DIMENSIONS, FINISHES, RELATIONSHIPS TO ADJACENT MATERIALS, AND ERECTION AND PLACEMENT.

8. SUBMIT FOR REVIEW CALCULATIONS AND DRAWINGS SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF ILLINOIS.

9. MANUFACTURER SHALL BE CERTIFIED BY THE PRECAST/PRESTRESSED CONCRETE INSTITUTE, PLANT CERTIFICATION PROGRAM. 10. WELDING PROCESSES AND WELDING OPERATORS SHALL BE QUALIFIED BY THE AWS "STANDARD QUALIFICATION PROCEDURE."

STRUCTURAL STEEL FRAMING:

1. STRUCTURAL STEEL DESIGN AND FABRICATION SHALL BE IN ACCORDANCE WITH THE AISC ASD 13TH EDITION STEEL CONSTRUCTION MANUAL. 2. W-SHAPES SHALL CONFORM TO ASTM A992 (Fy = 50 ksi).

3. ALL STRUCTURAL STEEL ANGLE AND CHANNEL SHAPES SHALL CONFORM TO ASTM A36 (Fy = 36 ksi) UNLESS NOTED OTHERWISE. 4. PLATE STEEL SHALL CONFORM TO ASTM A36 (Fy = 36 KSI).

5. ALL SQUARE AND RECTANGULAR HSS SHALL CONFORM TO ASTM A500, GRADE B (Fy = 46 KSI).

6. ALL ROUND HSS WITH A WALL THICKNESS LESS THAN OR EQUAL TO 5/8"SHALL CONFORM TO ASTM A500, GRADE B (Fy = 46 KSI).

7. ALL ROUND HSS WITH A WALL THICKNESS GREATER THAN 5/8" (STEEL PIPE) SHALL CONFORM TO ASTM A53, GRADE B (Fy = 35 KSI).

8. ALL SQUARE AND ROUND BARS SHALL CONFORM TO ASTM A36 (Fy = 36 KSI).

9. ALL SHEAR CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWING SHALL BE SELECTED AND DETAILED BY THE FABRICATOR. ALL CONNECTIONS SHALL BE SELECTED FROM AISC ASD LOAD TABLES TO SUPPORT MAXIMUM LOADS SHOWN ON DRAWINGS OR ONE HALF OF THE FULL UNIFORM LOAD CAPACITY OF THE MEMBER PER AISC. DOUBLE ANGLE CONNECTIONS ARE PREFERRED WHEN POSSIBLE.

10. ALL CONNECTION BOLTING IS TO BE WITH 3/4" DIAMETER A-325N BOLTS UNLESS NOTED OTHERWISE. BOLTS NEED ONLY BE TIGHTENED TO THE SNUG-TIGHT CONDITION. SNUG-TIGHT IS DEFINED AS THE TIGHTNESS OBTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A PERSON USING AN ORDINARY SPUD WRENCH.

11. ALL CONNECTIONS BOLTING DENOTED AS SLIP CRITICAL "SC" SHALL BE FULLY TIGHTENED BOLTS WITH HARDENED WASHERS. SECTIONS CONNECTED WITH SLIP CRITICAL CONNECTIONS SHALL NOT BE PRIMED OR PAINTED PRIOR TO INSTALLATION. LOAD INDICATOR BOLTS ARE REQUIRED FOR ALL SC CONNECTIONS.

12. ALL WELDING OF NEW STEEL TO BE WITH E70XX ELECTRODES.

13. ALL WELDING SHALL COMPLY WITH THE AWS STRUCTURAL WELDING CODES. ALL WELDING TO BE PERFORMED BY AWS PRE-QUALIFIED WELDERS CERTIFIED FOR THE GIVEN APPLICATION. 14. UNLESS SPECIFIED OTHERWISE REMOVE PAINT PRIOR TO WELDING NEW TO EXISTING STEEL. PRIME PAINT MAY BE WIRE BRUSHED, HOWEVER

THE PRIMER COMPOSITION AND THICKNESS MUST BE COMPATIBLE WITH WELDING. INSPECT FOR POROSITY IN WELDS REMOVE AND RE-WELD ANY DEFECTIVE WELDS. DO NOT PAINT WELDS PRIOR TO INSPECTION.

15. SUBMIT PRODUCT DATA FOR EACH TYPE OF PRODUCT SPECIFIED. SUBMIT MIL TEST REPORTS SIGNED BY MANUFACTURES CERTIFYING THAT THEIR PRODUCTS COMPLY WITH REQUIREMENTS.

16. ALL INSTALLED STEEL SHALL BE SMOOTH - HAZARD FREE.

17. SUBMIT SHOP DRAWINGS DETAILING FABRICATION OF STRUCTURAL STEEL COMPONENTS.

STEEL JOISTS:

1. ALL JOISTS TO BE K-SERIES SHORT SPAN JOISTS WITH 2 ½ INCH SEAT DEPTH. 2. JOISTS SIZES SHOWN ON PLAN HAVE BEEN SELECTED BASED ON UNIFORM DEAD (INCLUDING BOTTOM CORD LOADS) AND LIVE/SNOW LOADS. 3. JOISTS SHOWN AS "SP" HAVE BEEN SELECTED BASED ON EQUIVALENT UNIFORM LOADS, FOR ALL LOADS INCLUDING SPECIAL POINT LOADS AND SNOW DRIFTS SHOWN, BASED ON MAXIMUM BENDING AND SHEAR. HOWEVER, THE JOIST SUPPLIER SHALL VERIFY AND MODIFY DESIGN AS REQUIRED DUE TO MOMENT AND SHEAR DIAGRAMS.

4. ALL JOISTS SHALL BE DESIGNED FOR A MINIMUM 10 PSF BOTTOM CORD APPLIED COLLATERAL LOAD, AND A NET 10PSF UPLIFT.

5. PROVIDE HORIZONTAL, DIAGONAL, AND UPLIFT BRIDGING AS REQUIRED PER SJI SPECIFICATIONS.

6. PROVIDE THE FOLLOWING MAXIMUM ALLOWABLE DEFLECTION CRITERIA: L/240 TOTAL

7. SUBMIT SHOP DRAWINGS SHOWING LAYOUT, MARK, NUMBER, TYPE, LOCATION, AND SPACING OF JOISTS. INCLUDE JOINING AND ANCHORAGE DETAILS, BRACING, BRIDGING, ACCESSORIES, ETC.

8. SUBMIT FOR REVIEW CALCULATIONS AND ASSOCIATED REFERENCED ERECTION DRAWINGS. CALCULATIONS MUST BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF ILLINOIS.

9. MANUFACTURER MUST BE CERTIFIED BY SJI TO MANUFACTURE JOISTS SIMILAR TO THOSE INDICATED FOR THIS PROJECT AND WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.

10. JOIST MANUFACTURE, DESIGN, HANDLING, INSTALLATION, CAMBER, ETC TO COMPLY WITH SJI SPECIFICATIONS.

11. COMPLY WITH AWS REQUIREMENTS AND PROCEDURES FOR SHOP WELDING, APPEARANCE, QUALITY OF WELDS, AND METHODS USED IN

12. PROVIDE FINISH AS REQUIRED PER THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

13. JOIST BRIDGING WHERE SHOWN IS SCHEMATIC IN NATURE ONLY. SUPPLIER SHALL DESIGN AND INDICATE LOCATION AND CONNECTION DETAILS OF ALL BRIDGING ON JOIST ERECTION DRAWINGS. SUPPLIER SHALL FURNISH ALL BRIDGING MATERIAL.

14. ROOF TOP UNITS AND DRIFT LOADS ARE NOT INCLUDED IN JOIST GIRDER PANEL POINT LOADS. SUPPLIER TO INCLUDE THESE LOADS IN GIRDER

STEEL DECK:

1. STEEL DECK SHALL COMPLY WITH THE PROVISIONS OF THE LATEST EDITIONS OF THE FOLLOWING STANDARDS: AISI, AWS, AND SDI.

2. WELDING PROCESSES AND WELDING OPERATORS SHALL BE QUALIFIED BY THE AWS "STANDARD QUALIFICATION PROCEDURE." 3. SUBMIT SHOP DRAWINGS SHOWING LAYOUT AND TYPES OF DECK UNITS, FASTENER PATTERNS, SUPPLEMENTARY FRAMING, ETC.

7. IN AREAS WHERE SHOP PAINTED SURFACES ARE TO BE EXPOSED APPLY TOUCH-UP PAINT TO BLEND INTO ADJACENT SURFACES.

4. PROVIDE DECK CONFIGURATIONS COMPLYING WITH SDI "ROOF DECK SPECIFICATIONS" RELATING TO THE SECTION PROPERTIES AS INDICATED ON THE

5. INSTALL DECK UNITS AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND FINAL SHOP DRAWINGS. 6. AFTER DECKING INSTALLATION WIRE BRUSH, CLEAN, AND PAINT SCARRED AREAS, WELDS, AND RUST SPOTS ON TOP AND BOTTOM SURFACES OF DECKING UNITS AND SUPPORTING STEEL MEMBERS.

LIGHT GAGE COLD FORMED STEEL FRAMING

1. ALL LIGHT GAGE STEEL SHALL MEET THE SPECIFICATIONS OF 2001 EDITION OF THE AMERICAN IRON AND STEEL INSTITUTE, AISI, SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.

2. ALL LIGHT GAGE MEMBERS SHALL BE CLASSIFIED AS STRUCTURAL MEMBERS. ALL MEMBERS 54 - 97 MIL (16 -12 GAUGE) SHALL BE MADE FROM 50 KSI MATERIALS, OTHER MEMBERS SHALL BE AT LEAST 33 KSI UNLESS SPECIFICALLY NOTED ON THE PLANS.

1.5D OF THE EDGE OF BEARING. 4. PROVIDE 1 ROW OF BRIDGING FOR SPANS LESS THAN 14'-0" AND 2 ROWS AT 1/3RD POINTS FOR SPANS BETWEEN 14 AND 20 FEET.

5. STUDS AND JOISTS SHALL BE GALVANIZED AND SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE CURRENT AISI

3. ALL FLOOR JOISTS MUST BE BRACED AGAINST ROTATION AT EACH SUPPORT BY CHANNEL OR BLOCKING. JOISTS SHALL NOT HAVE WEB PUNCHOUTS WITHIN

6. GALVANIZING SHALL MEET THE REQUIREMENTS OF ASTM A653.

7. THE PHYSICAL AND STRUCTURAL PROPERTIES LISTED BY DIETRICH INDUSTRIES SHALL BE CONSIDERED THE MINIMUM PERMITTED FOR ALL FRAMING MEMBERS. SPECIFICALLY, THE FOLLOWING MINIMUM PROPERTIES, CALCULATED IN ACCORDANCE WITH THE LATEST AISI SPECIFICATION SHALL BE PROVIDED: Ix (in^4), Sx (in^3), Area (in^2), Rx (in), Fy (ksi), Resisting Moment (in-lb). ANY SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE ENGINEER OF RECORD. 8. ALL WELDING SHALL COMPLY WITH THE AWS STRUCTURAL WELDING CODES. ALL WELDING TO BE PERFORMED BY AWS PRE-QUALIFIED WELDERS CERTIFIED FOR THE GIVEN APPLICATION.

9. ALL WELDING OF LIGHT GAGE STEEL TO BE WITH E60XX ELECTRODES. 10. SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH TYPE OF COLD-FORMED STEEL FRAMING AND ACCESSORY REQUIRED. SUBMIT SHOP DRAWINGS SHOWING MEMBER, TYPE, LOCATION, SPACING, SIZE AND GAGE OF MEMBERS, METHOD OF ATTACHMENT TO SUPPORTING MEMBERS, AND

WOOD CONSTRUCTION:

1. TIMBER DESIGN AND INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. 2. ALL WOOD FRAMING SHALL CONFORM TO THE FOLLOWING MINIMUM STRENGTH AND GRADING CRITERIA UNLESS SPECIFICALLY SHOWN DIFFERENT ON PLAN. IF SPECIFIC SPECIES AND GRADE OF LUMBER IS UNAVAILABLE CONTACT MP-SQUARED STRUCTURAL ENGINEERS FOR SUITABLE

ا <i>ر</i>	TIONS.						
	USE	GRADE	Fb (psi)	Fc (psi)	E (psi)		
	STUDS MANUFACTURED	TIMBERSTRAND LSL	2,250	1,950	1,500,000		
	BEAM 2x4 - 2x10	SPF No 1/No 2	875	1,150	1,400,000		
	BEAM 2x12	HEM FIR SELECT	1,150	950	1,400,000		
	BEAM	LVL OR PSL	2,600	2,500	1.900.000		

GREATER DIAPHRAGM AND SHEAR CONNECTION CAPACITIES PER LATEST ICC ESR-1539 REPORTS.

ALL NECESSARY ERECTION DETAILS.

3. ALL CALCULATIONS HAVE BEEN BASED ON NAILS WITH PROPERTIES AS SHOWN IN THE TABLE BELOW. NAIL SUBSTITUTIONS SHALL HAVE EQUAL OR

NAIL TYPE	LENGTH (in)	DIAMETER (in)	HEAD (in)
6d	2	.099	.266
8d	2.5	.113	.297
10d	3	.128	.312

16d 3.5 .135 .344

8D MINIMUM REQUIRED FOR ALL ROOF CONSTRUCTION.

CARRYING CONCENTRATED LOADS.

WHICHEVER IS MORE.

4. ALL CONNECTIONS IN CONTACT WITH PRESERVATIVE TREATED WOOD SHALL HAVE A HOT-DIP GALVANIZED COATING OR THE SPECIFIC COATING

SHALL BE SUBMITTED TO AND APPROVED BY THE PROJECT ARCHITECT. 5. ALL SIZES SHOWN FOR TIMBER MEMBERS ARE STANDARD NOMINAL DIMENSIONS.

6. PLYWOOD PANELS SHALL BE APA GRADED STRUCTURAL PLYWOOD OR OSB SHEATHING. 7. ALL EXTERIOR EXPOSED TIMBER MEMBERS, WOOD MEMBERS IN DIRECT CONTACT WITH FOUNDATIONS OR EXTERIOR MASONRY AND INTERIOR MEMBERS NOTED TO BE PRESSURE TREATED WITH A NON-ARSENATE COMPOUNDS (ACQ PREFERRED).

8. SIMPSON STRONG-TIE CONNECTORS ARE SPECIFICALLY REQUIRED TO MEET THE STRUCTURAL CALCULATIONS OF PLAN. BEFORE SUBSTITUTING

ANOTHER BRAND, CONFIRM LOAD CAPACITY BASED ON RELIABLE PUBLISHED TESTING DATA OR CALCULATIONS. THE ENGINEER OF RECORD IS REQUIRED TO EVALUATE AND GIVE WRITTEN APPROVAL FOR SUBSTITUTION PRIOR TO INSTALLATION.

9. ALL EXTERIOR SIMPSON CONNECTORS SHALL BE ZMAX (G185) OR HOT-DIP GALVANIZED (HDG).

10. THE INSTALLATION OF BOLTS IN TIMBER MEMBERS SHALL MEET THE REQUIREMENTS OF ANSI/ASME STANDARD B18.2.1 11. BOLT HOLES IN TIMBER MEMBERS SHALL BE A MINIMUM OF 1/32"TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER. HOLES SHALL BE ACCURATELY ALIGNED IN MAIN AND SIDE MEMBERS. BOLTS SHALL NOT BE FORCIBLY DRIVEN.

12. A STANDARD CUT WASHER, METAL PLATE OR STEEL STRAP OR PLATE, OF SIZE NOT LESS THAN THE STANDARD CUT WASHER, SHALL BE BETWEEN THE WOOD AND THE BOLT HEAD AND BETWEEN THE WOOD AND THE NUT. 13. ARCHITECT & CONTRACTOR SHALL DETAIL & CONSTRUCT BUILDING FINISHES TO ACCOMMODATE AN EXPECTED BUILDING SHRINKAGE OF APPROXIMATELY 3/6" TO 3/8" PER FLOOR OF WOOD CONSTRUCTION. PROPER CARE SHALL BE TAKEN TO PREVENT STORED AND INSTALLED

LUMBER FROM THE ELEMENTS. DO NOT ALLOW LUMBER TO REST IN STANDING WATER. 14. PROVIDE EQUIVALENT SIZE SOLID BLOCKING & VERTICAL MEMBERS THROUGH UNDERLYING FLOORS/WALLS BELOW MULTIPLE MEMBERS OR POSTS

MISCELLANEOUS & DEFERRED SUBMITTALS:

2. ALL WINDOW FRAMES SHALL BE INSTALLED TO ALLOW FOR A MINIMUM OF L/600 OR 3/8 INCH VERTICAL DEFLECTION OF THE HEADER

1. STAIRS ARE TO BE PERFORMANCE DESIGNED AND DETAILED FOR 100 PSF LIVE LOAD BY THE SUPPLIER. PROVIDE INDEPENDENT STAIR COLUMNS AS SHOWN OR REQUIRED. REFER TO THE ARCHITECTURAL DRAWINGS FOR STAIR CONFIGURATION AND SIZE RESTRICTIONS.

3. ALL DRAWINGS ARE OF EQUAL IMPORTANCE IN DEFINING THE WORK OF THE CONTRACT DOCUMENTS. CONTRACTOR SHALL CAREFULLY REVIEW AND COMPARE ALL DRAWINGS DURING THE BIDDING PERIOD AND BEFORE INSTALLATION OF THEIR WORK. ANY INCONSISTENCIES IN THE DRAWINGS SHALL BE REPORTED PROMPTLY TO THE ENGINEER AND ARCHITECT FOR CLARIFICATION.

4. EVERY EFFORT HAS BEEN MADE TO PROVIDE TO SCALE DRAWINGS, HOWEVER THE DRAWINGS ARE NOT NECESSARILY TO SCALE - USE GIVEN





PRINTS ISSUED 07.26.2013 - Schematic Design

08.23.2013 - Design Development

09.23.2013 - 65% CD's

10.21.2013 - 95% CD's

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PLAN

10.07.2013 - Pricing Set

11.13.2013 - Bid Documents

WDM No. drawn: MP2

RESTURANT FOUNDATION

checked: MP2

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STEEL ANGLE DESIGNATION LENGTH/LONG LIGHT GAGE METAL FRAMING LONG LEG HORIZONTAL LONG LEG VERTICAL LOW POINT LAMINATED VENEER LUMBER MAXIMUM MBW MASONRY BEARING WALL MFG MANUFACTURER MIN MINIMUM MTL METAL NOT IN CONTRACT NIC NOM NOT TO SCALE N-SNORTH-SOUTH DIRECTION

ON CENTER OUTSIDE DIAMETER OVER HEAD OPPOSITE PLUMBING CONTRACTOR PRECAST/PRESTRESSED POWER DRIVEN FASTENER PEMB PRE-ENGINEERED METAL BUILDING PERIM PERIMETER PJF PRE-FORMED JOINT FILLER STEEL PLATE DESIGNATION POST TENSIONED PVMT PAVEMENT

REINFORCED CONCRETE

TOP OF

TYPICAL

TOP OF CURB ELEVATION

TOP OF PIER ELEVATION

TOP OF WALL ELEVATION

TOP OF SLAB ELEVATION

WELDED WIRE FABRIC

TOP OF STEEL ELEVATION

TOP OF LEDGE ELEVATION

INSIDE DIAMETER

INSULATION

INSTRUCTIONS

KNEE BRACE

INTERIOR

JOINT

INSUL

INSTR

INT

KB

EXPANSION JOINT ROOF DRAIN ELEVATION REINF REINFORCING ELEVATOR REQ'D REQUIRED ENGINEER EQUAL SCHD SCHEDULE EACH WAY SIM SIMILAR EAST-WEST DIRECTION SHT SHEET EXISTING SPA SPACE/SPACES EXPANSION SPEC SPECIFICATION EXTERIOR SQUARE STAINLESS STEEL FLANGE BRACE FLOOR DRAIN STRUCTURAL **FOUNDATION** FINISH FLOOR TRUSS BEARING ELEVATION FACE-TO-FACE THICK

R/C

FRAME LINE FLANGE FUTURE FIELD VERIFY GAGE GALVANIZED GALV GENERAL CONTRACTOR TYP GRID LINE UNO HVAC CONTRACTOR H00K VERT

STRUCTURAL ABBREVIATION LEGEND

ACCOM

AGG

ALT

ALUM

ARCH

BLDG

CONC

CONN

CONT

DWG

EXIST

CONTR

ANCHOR BOLT ACCOMMODATE

AGGREGATE

ALUMINUM

ALTERNATE

ARCHITECT/

ARCHITECTURAL

BACK-TO-BACK

BUILDING LINE

BUILDING

BLOCK

BOTTOM

BEARING

BOTH SIDES

CATCH BASIN

CAST IRON

CEILING

COLUMN

CONCRETE

CONNECTION

CONTINUOUS

CONTRACTOR

DIAMETER

DIMENSION

DOWN

DETAIL

DRAWING

DOWEL

CAST IN PLACE

CONTROL JOINT

CLEAR DISTANCE

CHANNEL DESIGNATION

CENTER-TO-CENTER

CONSTRUCTION JOINT

CENTER LINE/ COLUMN LINE

CONCRETE MASONRY UNIT

ELECTRICAL CONTRACTOR

BEAM

ABOVE FINISH FLOOR

UNLESS NOTES OTHERWISE VERTICAL HOLLOW METAL HORIZ HORIZONTAL WIDTH HIGH POINT W/ WITH HFIGHT W/O WITHOUT HVAC HEATING, VENTILATING WALL CONTROL JOINT & AIR CONDITIONING WD WOOD HEADED WELDED STUD WIDE FLANGE DESIGNATION WORKING POINT WSBW WOOD STUD BEARING WALL

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- 1. SEE SHEET S.01 FOR ADDITIONAL NOTES.
- 2. CONTROL JOINTS: ALL CONCRETE SLABS SHALL BE SAW CUT AS SOON AS THE CONCRETE WILL SUPPORT THE SAWING EQUIPMENT AND DOES NOT RAVEL DURING THE SAWING OPERATION. ALL SAW CUTTING SHALL BE PERFORMED THE SAME DAY THE CONCRETE IS PLACED. SAW CUTS SHALL BE 1/8" WIDE WITH DEPTHS OF AT LEAST 25% OF THE SLAB THICKNESS. JOINTING PATTERN SHALL BE IN A SQUARE PATTERN, WITH MAXIMUM SPACINGS OF 12'-0" FOR 4" THICK SLABS, 15'-0" FOR 6" THICK SLABS AND 20'-0" FOR 8" THICK SLABS, UNLESS NOTED OTHERWISE.
- 3. CURING: ALL CONCRETE FLAT WORK SHALL BE COVERED IMMEDIATELY FOLLOWING SAW CUTTING AND MAINTAINED CONTINUOUSLY WET FOR A MINIMUM OF 7 DAYS AFTER PLACING. CURING SHEETS SHALL BE USED, AND ARE TO REMAIN IN PLACE, DURING THIS PERIOD. CURING COMPOUND MAY BE USED AND MUST BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS.
- 4. SEE SHEET S7.1 DETAIL 1 FOR ANCHOR BOLT REQUIREMENTS.
- 5. SEE SHEET S7.1 DETAILS 2 & 3 FOR FOOTING & FOUNDATION WALL CORNER REINFORCING.
- 6. SEE SHEET S7.1 DETAILS 4 & 5 FOR ADDED REINFORCING AT ROUND & RECTANGULAR OPENINGS.
- 7. PROVIDE 2-#4 BARS AT ALL DEAD ENDS & REENTRANT CORNERS. SEE DETAIL 6/S7.1.
- 8. SLAB CONTROL JOINTS SHALL BE AS SHOWN ON PLAN OR SIMILAR. JOINT SPACING SHALL NOT EXCEED 10'-0" O.C. SLAB JOINT ASPECT RATIO SHALL NOT EXCEED 1.5:1. SEE DETAIL 7/S7.1.
- 9. SEE SHEET S7.1 DETAIL 8 FOR WALL JOINT REQUIREMENTS.
- 10. SEE SHEET S7.1 DETAIL 9 FOR FOOTING STEP REQUIREMENTS
- 11. SITE PLAN DATUM ELEVATION: 109.00' = 100'-0"

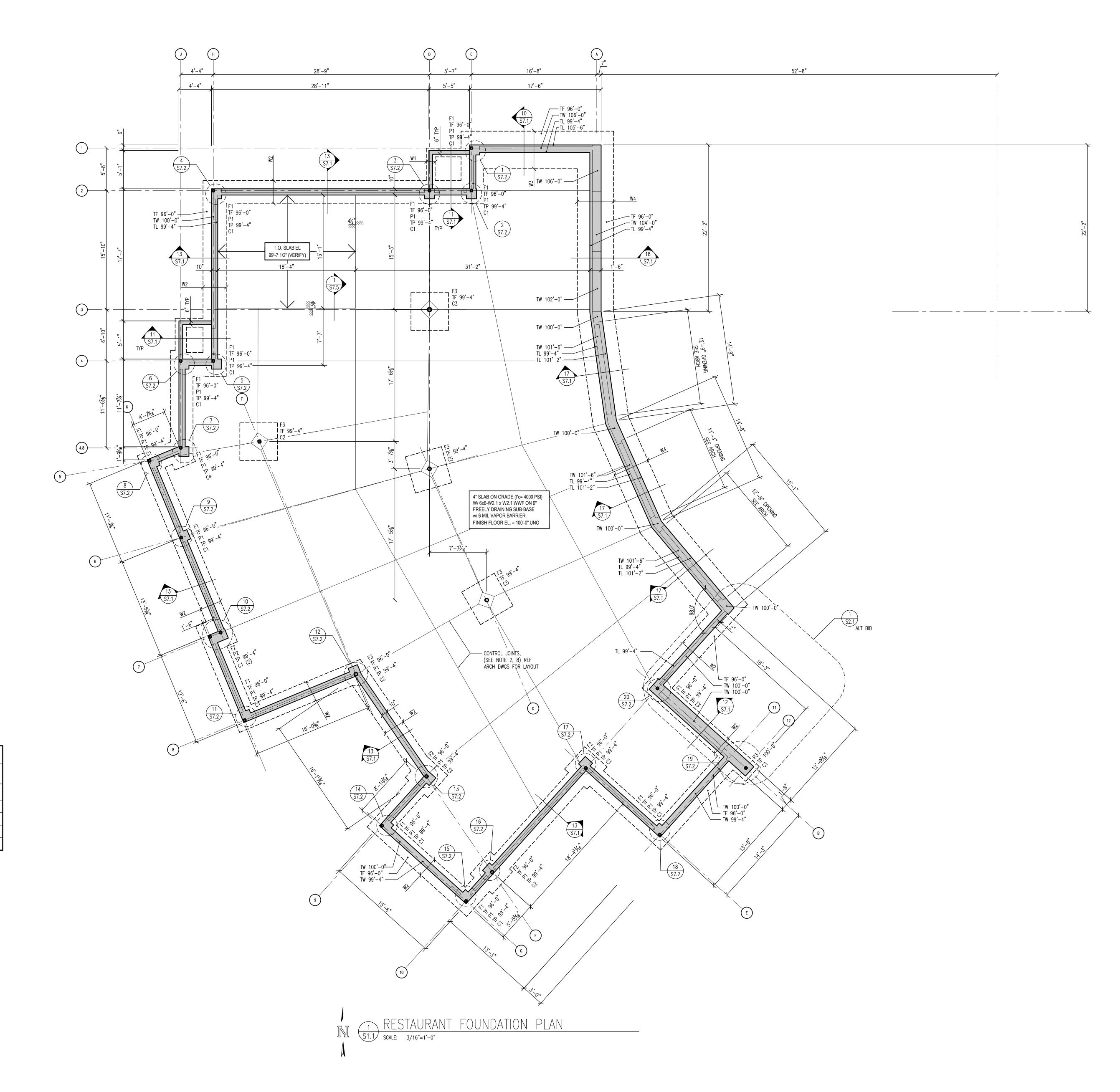
CONCRETE FOOTING —	
CONCRETE PIER —	\\(\'\
TOP OF PIER ELEVATION —	TP=X'-X"
COLUMN GRID MARK	\longrightarrow (A)
COLUMN FOOTING MARK ————————————————————————————————————	X'-
TOP OF COLUMN FOOTING ELEVATION	P
COLUMN PIER MARK (SEE PIER SCHEDULE)	
CONCRETE WALL & FOOTING -	<u></u> [
TOP OF WALL FOOTING ELEVATION —	X'-X"
TOP OF LEDGE ELEVATION —	— TL=X'-X" — i
TOP OF WALL ELEVATION —	── TW=X'-X"
TOP OF PIER ELEVATION —	→ TP=X'-X"
FOOTING STEP	X'-X"
FOOTING DIMENSION —	
EXPANSION JOINT-SEE NOTES FOR WALL CONTROL JOINT SPACING ——	

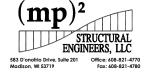
	FOOTING SCHEDULE				
FOOTING MARK	FOOTING DIMENSION (W x L x D)	FOOTING REINFORCING EACH WAY, BOTTOM			
F1	3'-0" x 3'-0" x 1'-0"	3-#5 EA WAY			
F2	4'-0" x 4'-0" x 1'-0"	4-#6 EA WAY			
F3	5'-0" x 5'-0" x 1'-0"	5-#6 EA WAY			
W1	2'-0" x 1'-0" x CONT	(2) #4 x CONT			
W2	3'-0" x 1'-0" x CONT	(3) #5 x CONT			
W3	5'-6" x 1'-0" x CONT	(5) #5 x CONT #5 @16"oc			
W4	4'-0" x 1'-2" x CONT	(4) #5 x CONT #5 @16"oc			

_				
			.E	
	MARK	SIZE	BASE P	REMARKS
Ī	C1	HSS4x4x ⁵ ∕₁ ₆	P ¾"x12"x1'-0" w/ (4) ¾"ø A.B.'s	
Ī	C2	HSS5x5x¾	P_ 3/4"x12"x1'-0" w/ (4) 3/4"ø A.B.'s	
	C3	HSS4x4x½	P_ ¾"x12"x1'−0" w/ (4) ¾"ø A.B.'s	
	C4	HSS5.000x0.375	P ¾"x12"x1'-0" w/ (4) ¾"ø A.B.'s	
	C5	HSS6.000x0.375	P_ ¾"x12"x1'-0" w/ (4) ¾"ø A.B.'s	

	Р			
A		B	C	D
PIER MARK	PIER DIMENSION (W x L)	PIER REINFORCING	TYPE	REMARKS
P1	1'-4" x 1'-4"	8-#6 VERT W/ #3 TIES @ 10"oc	В	
P2	2'-5" x 1'-4"	16-#6 VERT W/ #3 TIES @ 10"0C	В	
P3	1'-8" x 1'-8"	8-#6 VERT W/ #3 TIES @ 10"0C	В	
P4	1'-3" x 1'-3"	6-#6 VERT W/ #3 TIES @ 10"0C	С	

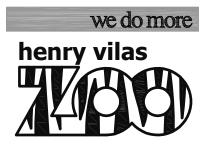
 CENTER PIER UNDER COLUMN <u>OR</u> UNDER BEAM BEARING UNLESS NOTED OTHERWISE.
 SEE DETAIL X/S7.X FOR TYPICAL PIER SECTION.







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B No. 313086

Zoo - County of Dane

Department of Public Wo

Henry Vilas Zoo
702 S Randall Ave

PRINTS ISSUED

07.26.2013 - Schematic Design

08.23.2013 - Design Development

09.23.2013 - 65% CD's

10.07.2013 - Pricing Set

10.21.2013 - 95% CD's

11.13.2013 - Bid Documents

MDM No. drawn: MP2

13046 checked: MP2

RESTURANT FOUNDATION

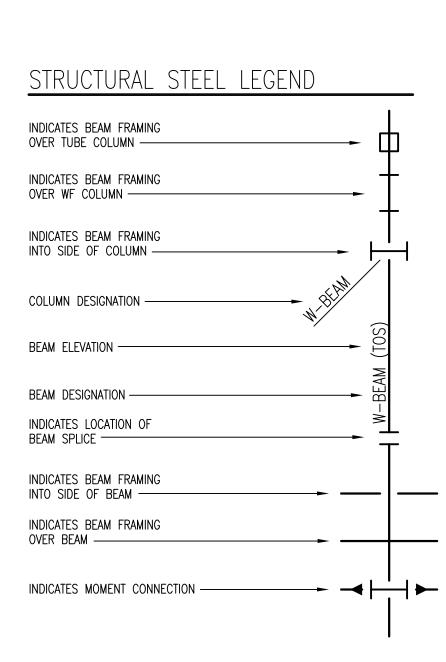
S1.⁴

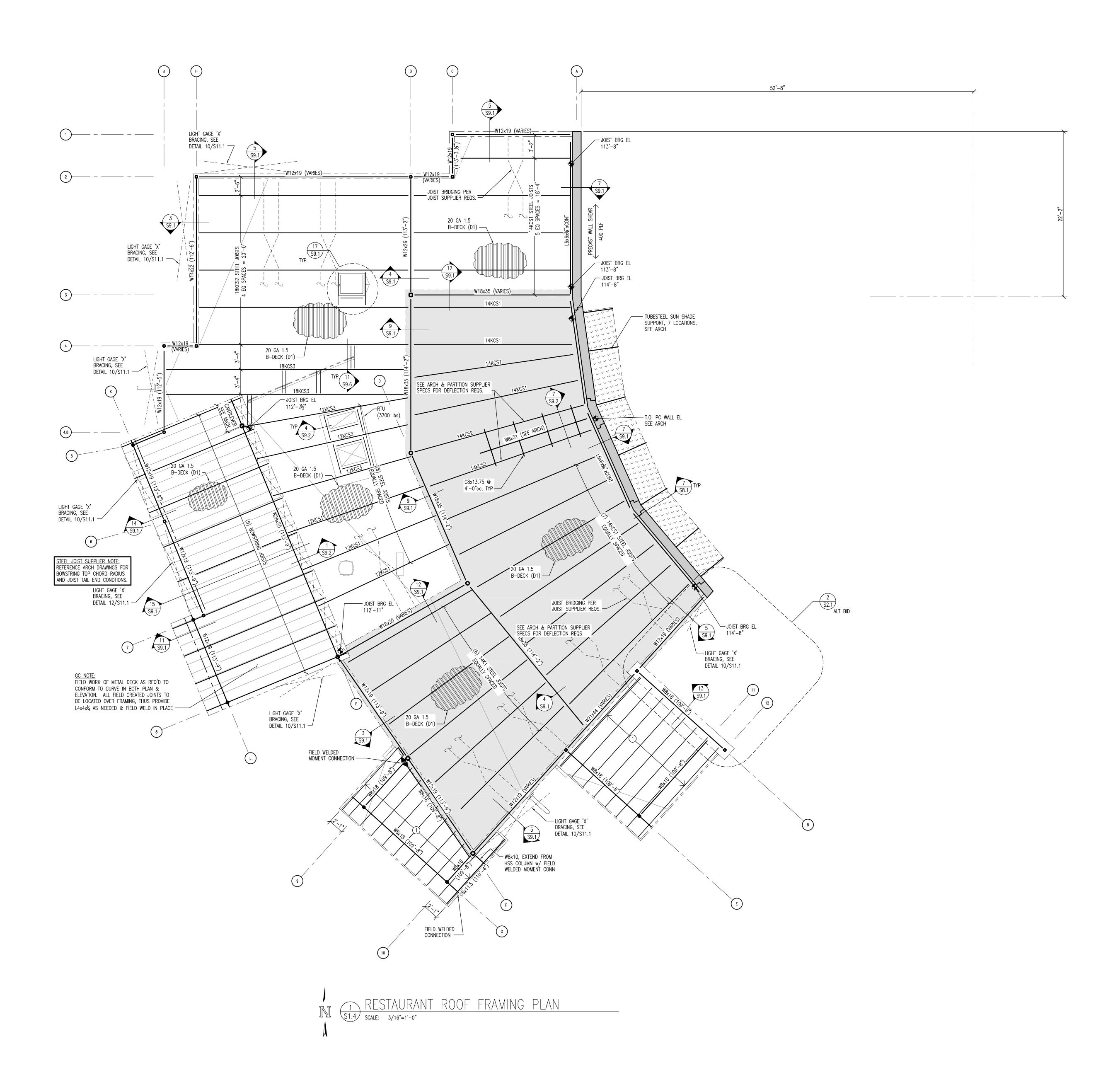
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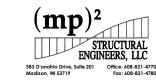
- 1. SEE SHEET S001 FOR ADDITIONAL NOTES.
- 2. 1 800S162-68 COLD FORM ROOF JOISTS @ 24"oc w/ 20 GA 1.5 B-DECK (D1)
- 3. SEE SHEET S9.1, DETAIL 10 FOR METAL DECK SCHEDULE AND DECK ATTACHMENT REQUIREMENTS
- 4. SEE SHEET SO.1 FOR ADDITIONAL PRECAST REQUIREMENTS AND ENVIRONMENTAL LOADING REQUIREMENTS.
- 5. STYLE OF PRECAST WALLS (SANDWICH PANEL OR INSULATED CORES)
 SHOWN AS CONCEPTUAL ONLY. ALL PRECAST WALL PANELS SHALL HAVE
 ARCHITECTURAL FINISH AND "R" INSULATION VALUES AS SPECIFIED BY
- 6. PRECAST WYTHES EXPOSED TO ANIMAL ACTIVITY SHALL BE RIGID ENOUGH TO NOT CRACK WHEN ANIMAL LOADS ARE APPLIED (SEE NOTE 6 BELOW FOR LOADS).
- 7. ALL PRECAST WALL PANELS EXPOSED TO ANIMAL ACTIVITY SHALL BE DESIGNED FOR ENVIRONMENTAL LOADS SHOWN ON SHEET SO.1 AND FOR (2) 2.0k IMPACT POINT LOADS APPLIED OVER A 0.5 SQ-FT AREA AT 2'-0" APART AT ANY LOCATION IN THE BOTTOM 12'-0" ON THE EXTERIOR FACE OF THE WALL.
- 8. PRECAST WALL SHALL BE DESIGNED AS SHEAR WALLS TO RESIST SOIL, WIND, SEISMIC FORCES PER PLAN.
- 9. PROVIDE FORM LINER PER ARCHITECTURAL PLANS.

ROOF JOIST NOTES

- 1. SEE SHEET SO.1 FOR ADDITIONAL NOTES.
- 2. ALL JOISTS SHALL BE DESIGNED FOR A NET WIND UPLIFT OF 13.2
- 3. ALL KCS JOISTS HAVE BEEN SPECIFIIED TO SUPPORT SNOW DRIFT AND RTU LOADS IN ACCORDANCE WITH SJI CODE OF STANDARD PRACTICE USING A FLAT POSITIVE MOMENT & FLAT SHEAR FNEVELOPES.
- 4. JOIST BRIDGING WHERE SHOWN IS SCHEMATIC IN NATURE ONLY. SUPPLIER SHALL DESIGN AND INDICATE LOCATION AND CONNECTION DETAILS OF ALL BRIDGING ON JOIST ERECTION DRAWINGS. SUPPLIER SHALL FURNISH ALL BRIDGING MATERIAL.
- 5. PROVIDE "X" BRIDGING BETWEEN JOIST AND PERIMETER W-SECTIONS AND/OR HARD WALL
- 6. ALL JOIST SHALL BE DESIGNED FOR A BOTTOM CHORD APPLIED 5 PSF COLLATERAL GRAVITY LOAD. THIS LOAD HAS BEEN INCLUDED IN THE JOIST SELECTION.
- 7. CONTRACTOR TO VERIFY SIZE, WEIGHT, & LOCATION OF RTU PRIOR TO ERECTING STEEL JOISTS. RTU & CURB MUST BE SUPPORTED BY JOISTS. LOCATE JOISTS TO SUPPORT RTU PER FINAL MEP PLAN. SEE DETAIL 18/S9.1 FOR TYP JOIST REINFORCING AT CONCENTRATED LOADS & 4/S9.2 FOR TYPICAL RTU SUPPORT.
- 8. CONTRACTOR TO VERIFY SIZE AND LOCATION OF ALL ROOF PENETRATIONS. PROVIDE STEEL ANGLE FRAMES PER DETAILS 16 & 17 ON SHEET S9.1.

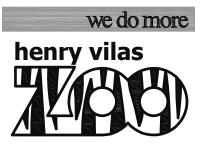








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Henry Vilas Zoo
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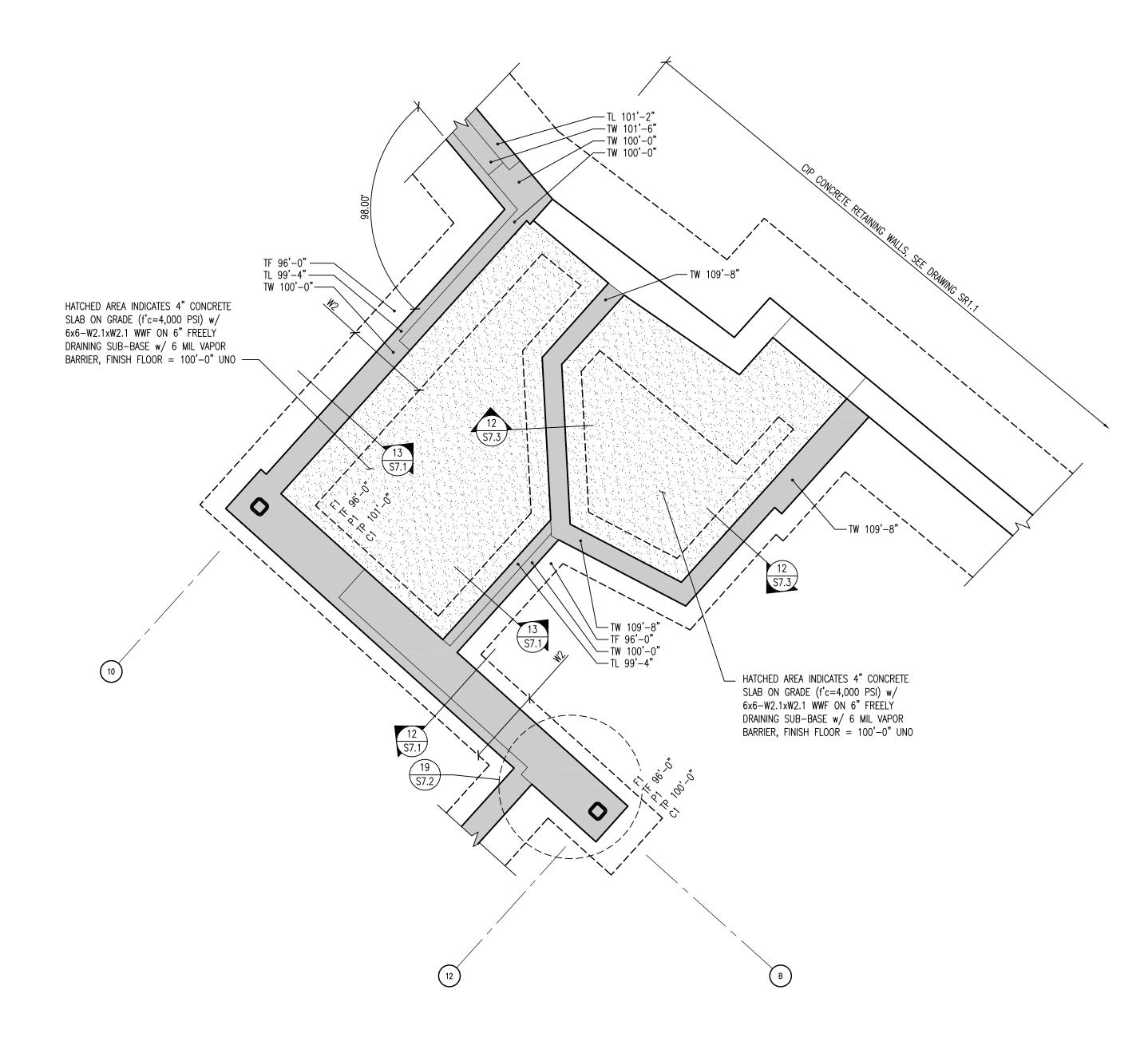
WDM No. drawn: | 13046 checked: | RESTURANT ROOF

FRAMING PLAN

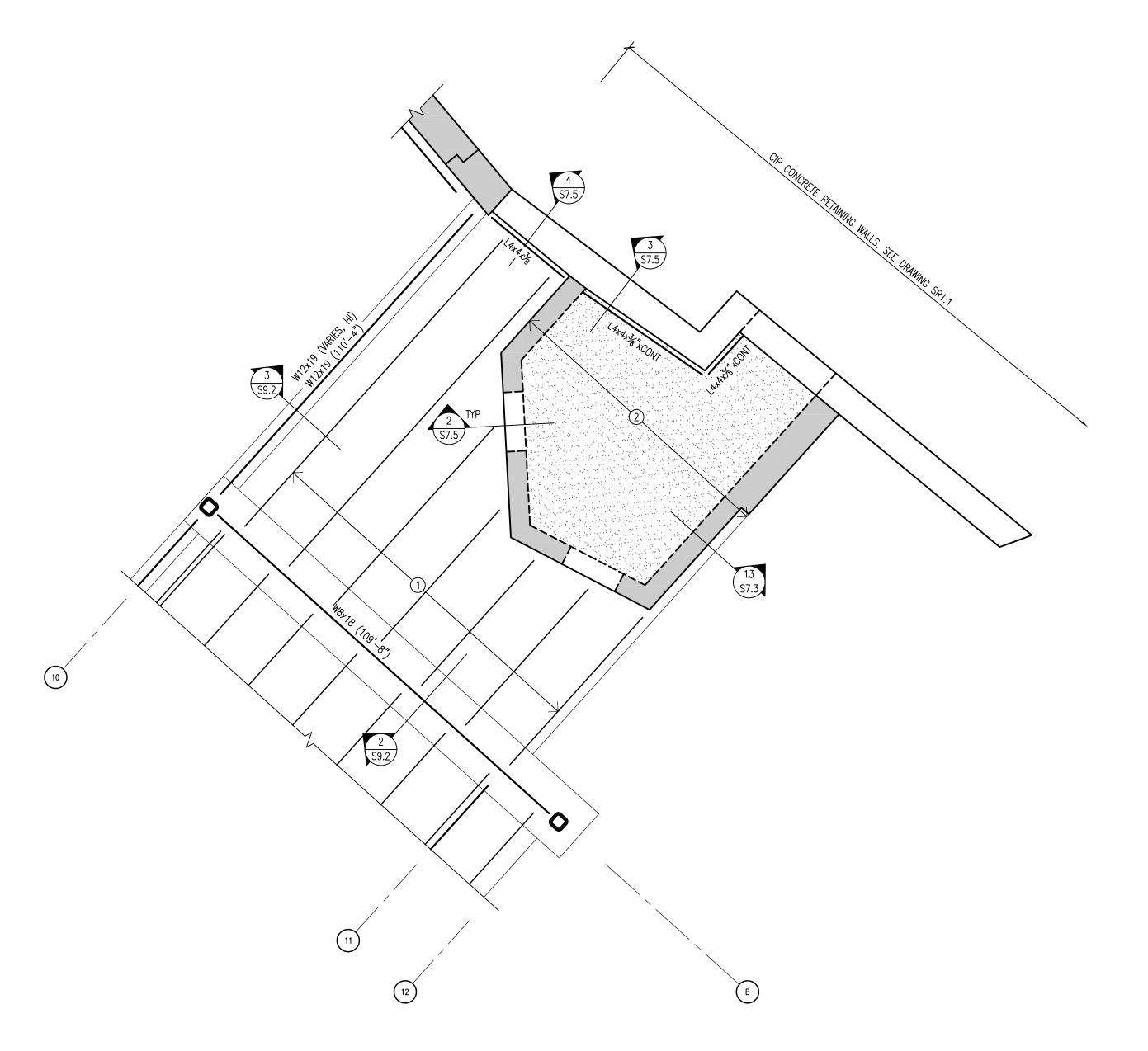
S1.2

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- 1. SEE SHEET S001 FOR ADDITIONAL NOTES.
- 2. 1 800S162-68 COLD FORM ROOF JOISTS @ 24"oc w/ 20 GA 1.5 B-DECK (D1)
- 3. 2 8" CAST-IN-PLACE STEEL REINFORCED SLAB



DEN FOUNDATION PLAN
S2.1 SCALE: 3/8"=1'-0"

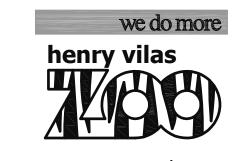


DEN ROOF FRAMING PLAN
S2.1 SCALE: 3/8"=1'-0"

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Merdison, W. 53719



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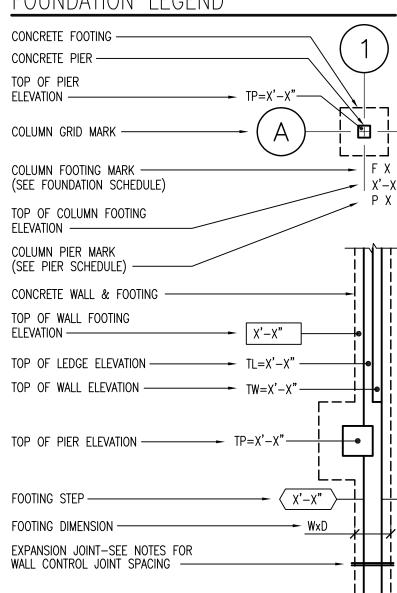
11.13.2013 - Bid Documents



S2.1

- 1. SEE SHEET S.01 FOR ADDITIONAL NOTES.
- 2. SEE SHEET S7.1 DETAIL 1 FOR ANCHOR BOLT REQUIREMENTS. 3. SEE SHEET S7.1 DETAILS 2 & 3 FOR FOOTING & FOUNDATION
- WALL CORNER REINFORCING. 4. SEE SHEET S7.1 DETAILS 4 & 5 FOR ADDED REINFORCING AT
- ROUND & RECTANGULAR OPENINGS. 5. PROVIDE 2-#4 BARS AT ALL DEAD ENDS & REENTRANT CORNERS. SEE DETAIL 6/S7.1.
- 6. SLAB CONTROL JOINTS SHALL BE AS SHOWN ON PLAN OR SIMILAR. JOINT SPACING SHALL NOT EXCEED 10'-0" O.C. SLAB JOINT ASPECT RATIO SHALL NOT EXCEED 1.5:1. SEE DETAIL 7/S7.1.
- 7. SEE SHEET S7.1 DETAIL 8 FOR WALL JOINT REQUIREMENTS.
- 8. SITE PLAN DATUM ELEATION: 114.30' = 100'-0"
- 9. SLOPE DRAIN AND MAINTAIN MINIMUM THICKNESS SHOWN. SEE A3.1 FOR FLOOR ELEVATIONS.
- 10. SEE ARCH FOR ALL WALL OPENING LOCATIONS & DIMENSIONS. 11. SEE A3.1 FOR WALL OPENING DETAILS NOT SPECIFICALLY SHOWN ON THIS SHEET.
- 12. ALL BACKFILL AT FOUNDATION WALLS WITH UNBALANCED FILL LEVELS MUST BE GRANULAR BACKFILL APPROVED BY THE GEOTECHNICAL ENGINEER TO NOT EXCEED LOADS ASSUMED ON SHEET 0.1.

FOUNDATION LEGEND

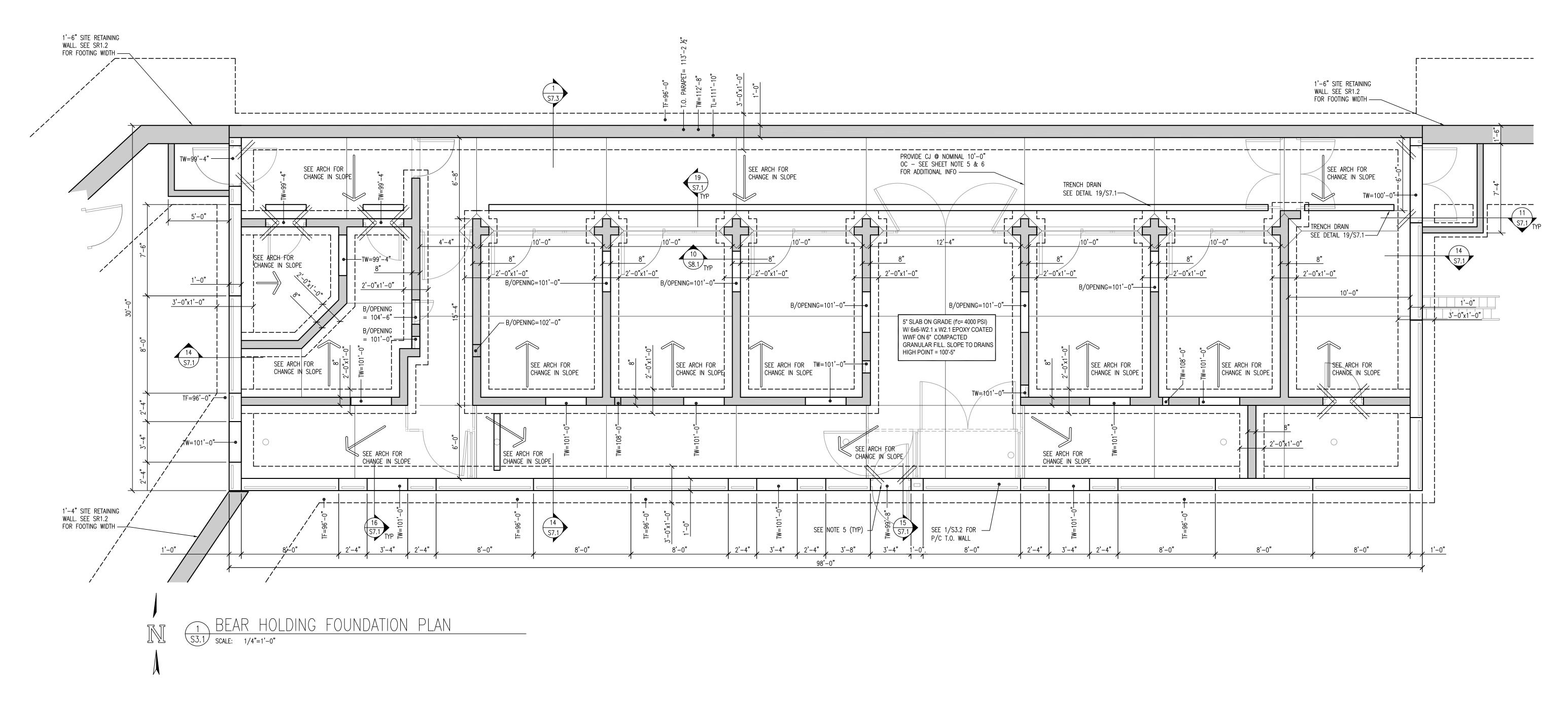


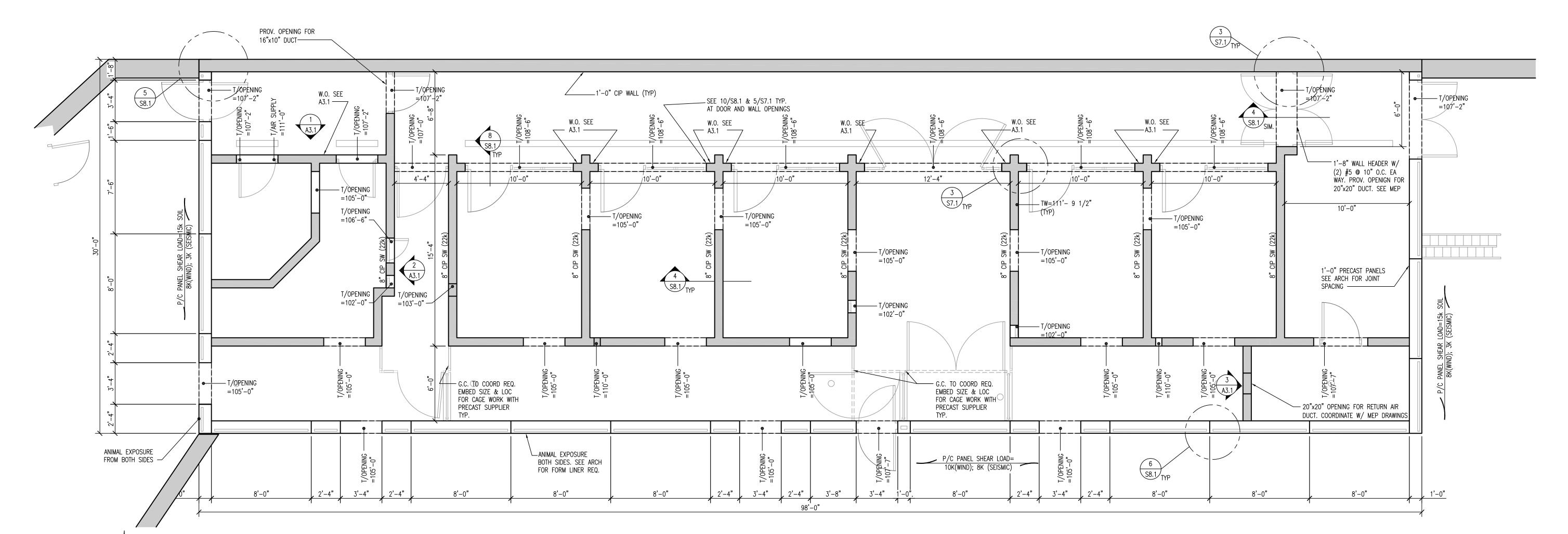
PRECAST FRAMING NOTES

- 1. SEE SHEET SO.1 FOR ADDITIONAL PRECAST REQUIREMENTS AND ENVIRONMENTAL LOADING REQUIREMENTS.
- 2. STYLE OF PRECAST WALLS (SANDWICH PANEL OR INSULATED CORES) SHOWN AS CONCEPTUAL ONLY. ALL PRECAST WALL PANELS SHALL HAVE ARCHITECTURAL FINISH AND "R" INSULATION VALUES AS SPECIFIED BY
- 3. PRECAST WYTHES EXPOSED TO ANIMAL ACTIVITY SHALL BE RIGID ENOUGH TO NOT CRACK WHEN ANIMAL LOADS ARE APPLIED (SEE NOTE 6 BELOW FOR LOADS).
- 4. ALL PRECAST WALL PANELS EXPOSED TO ANIMAL ACTIVITY SHALL BE DESIGNED FOR ENVIRONMENTAL LOADS SHOWN ON SHEET SO.1 AND FOR (2) 2.0k IMPACT POINT LOADS APPLIED OVER A 0.5 SQ-FT AREA AT 2'-0" APART AT ANY LOCATION IN THE BOTTOM 12'-0" ON THE EXTERIOR
- 5. PRECAST WALL SHALL BE DESIGNED AS SHEAR WALLS TO RESIST SOIL, WIND, SEISMIC FORCES PER PLAN.

BEAR HOLDING FRAMING PLAN
S3.1 SCALE: 1/4"=1'-0"

- 6. PROVIDE FORM LINER PER ARCHITECTURAL PLANS.
- 7. ALL PRECAST WALLS TO EXTEND BELOW GRADE TO FOOTING TYP.





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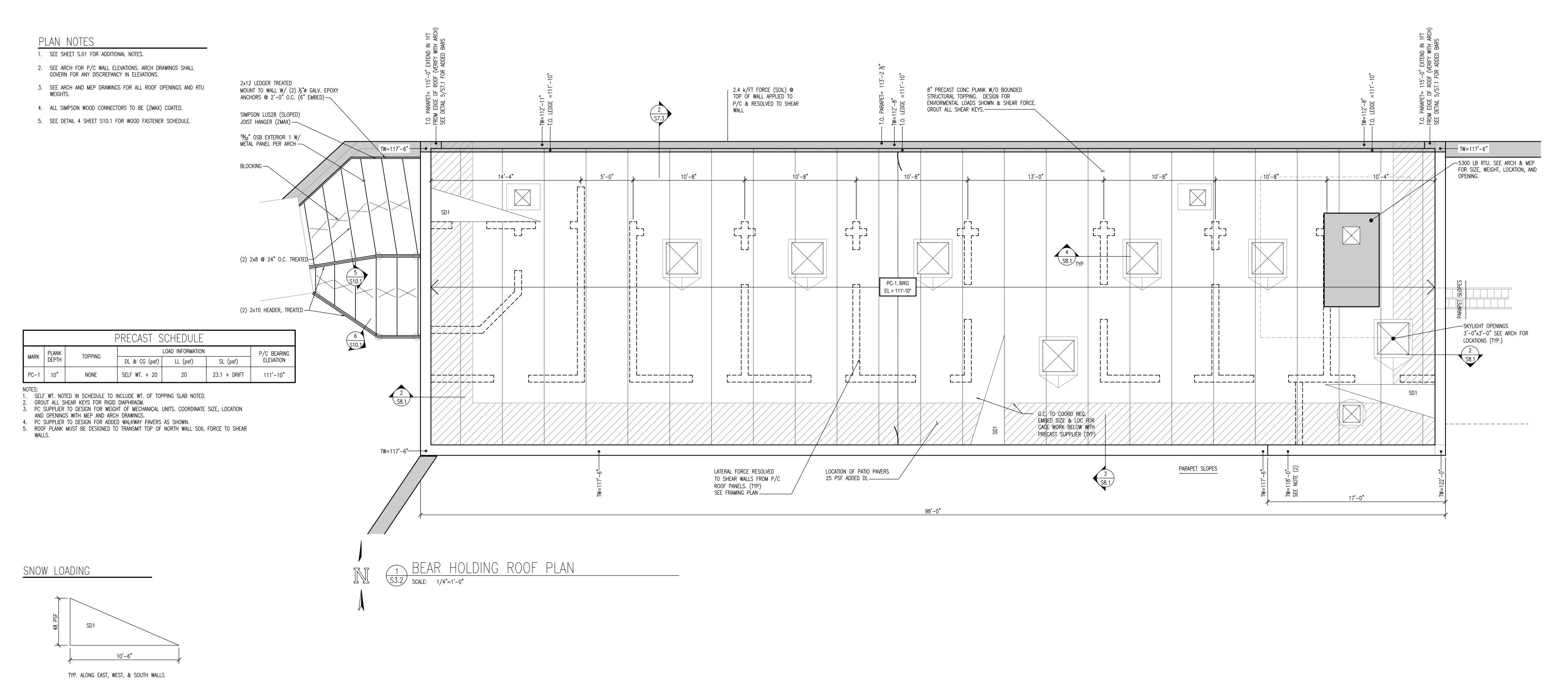


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11.13.2013 - Bid Documents

WDM No. BEAR HOLDING FOUNDATION PLAN & FRAMING PLAN

S3.1

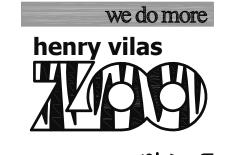


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WDM No. drawn: MP2

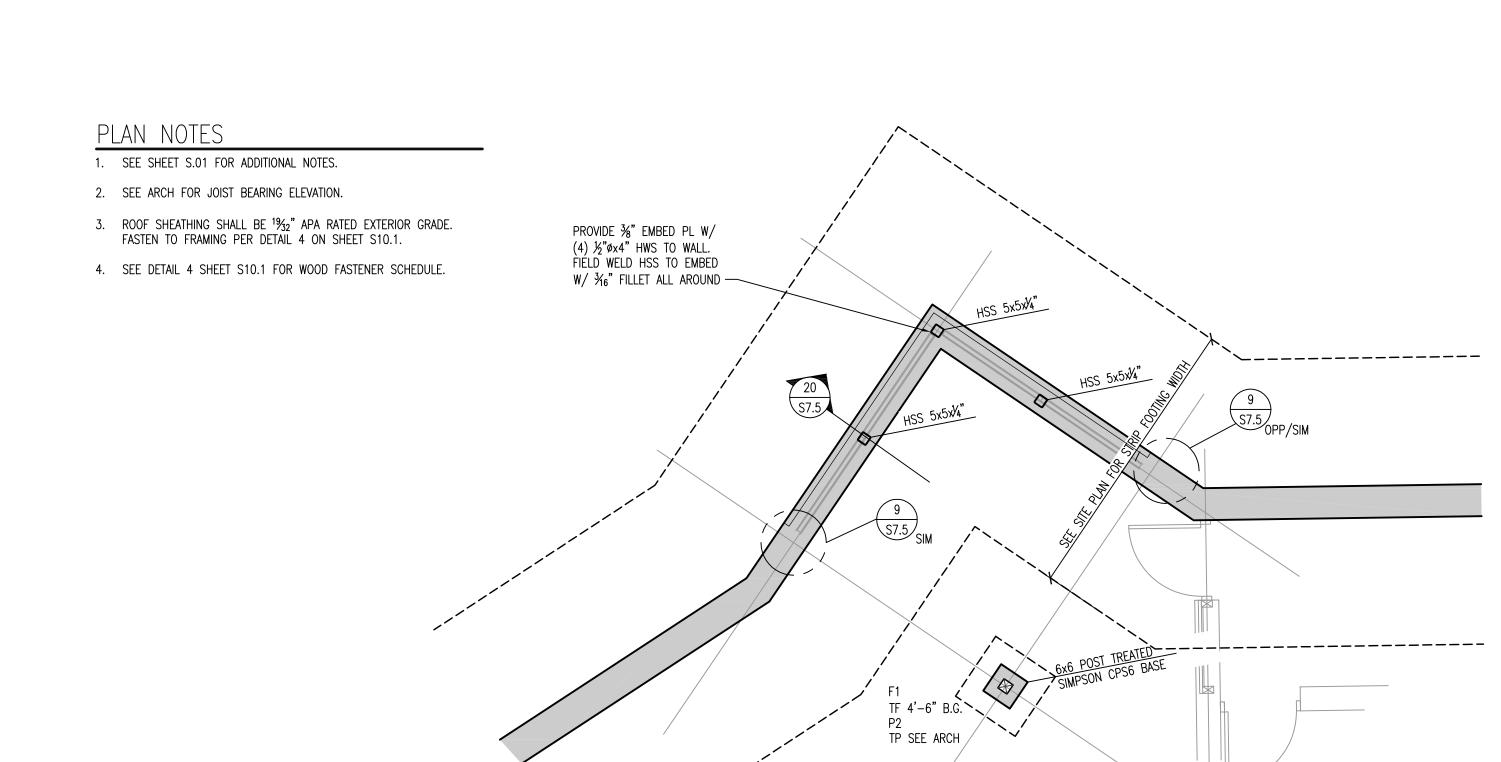
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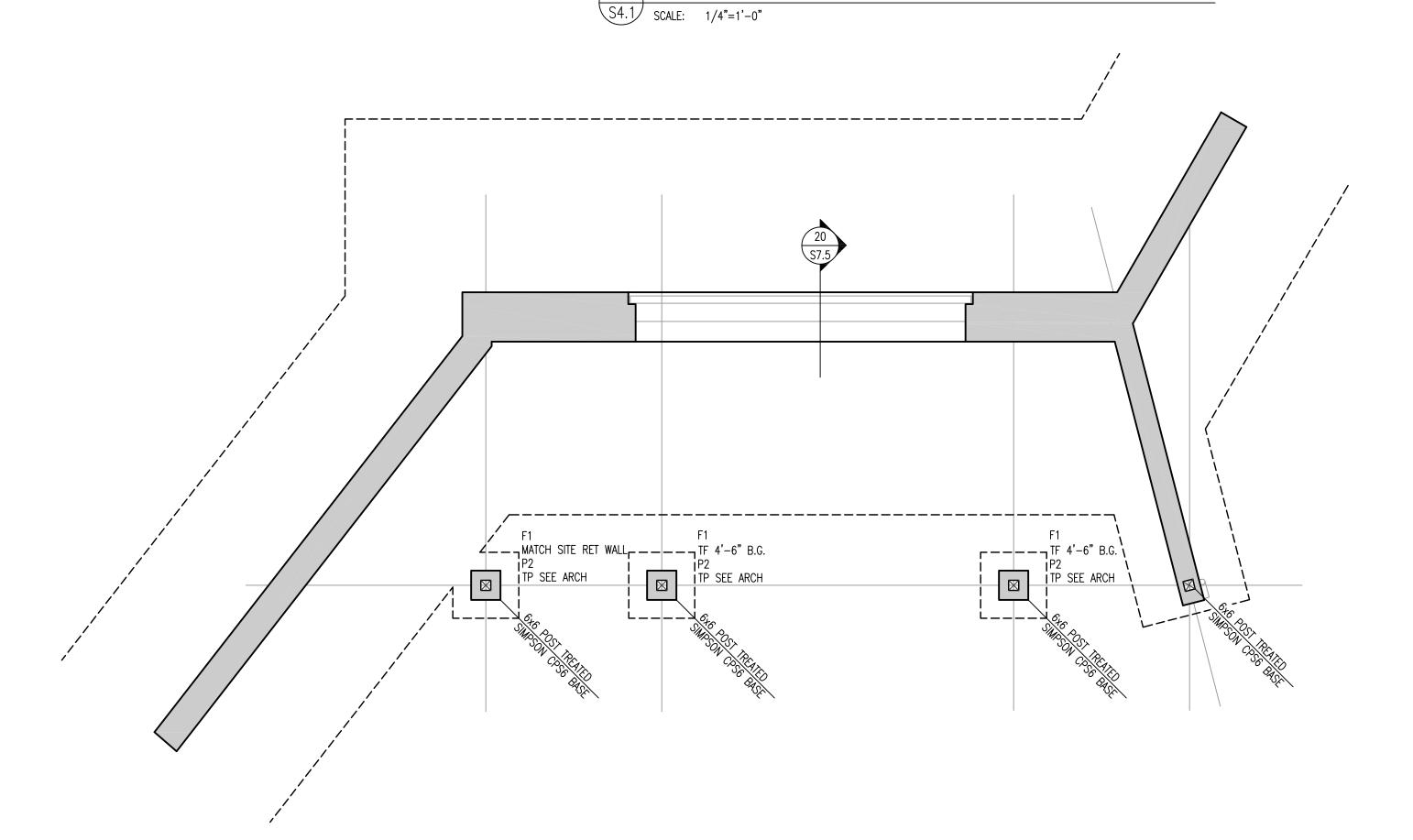
BEAR HOLDING

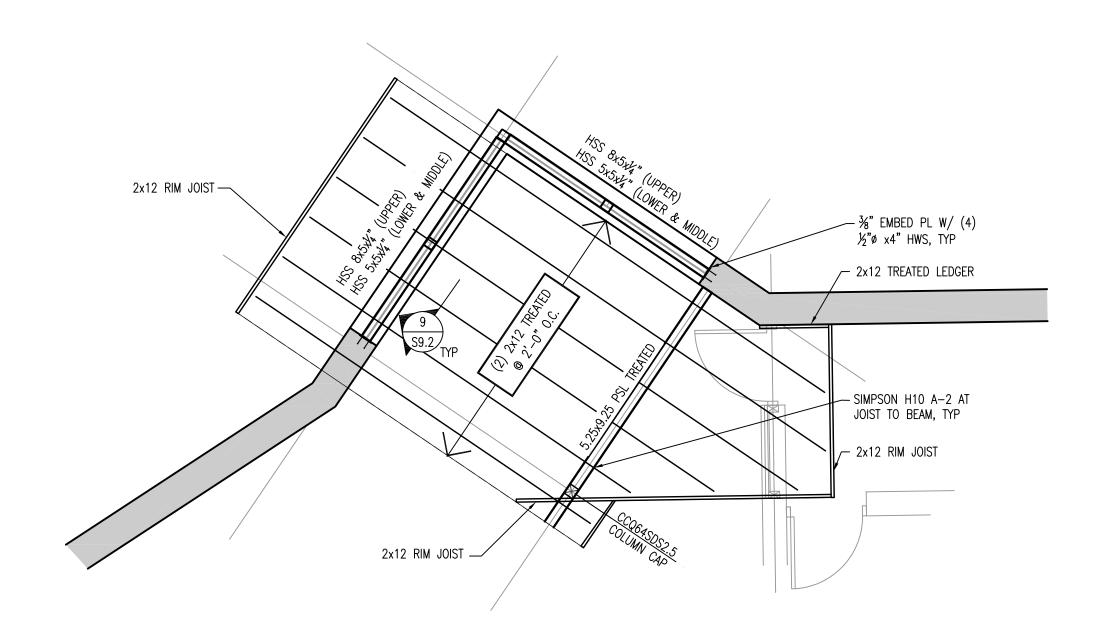
ROOF FRAMING PLAN

S3.2

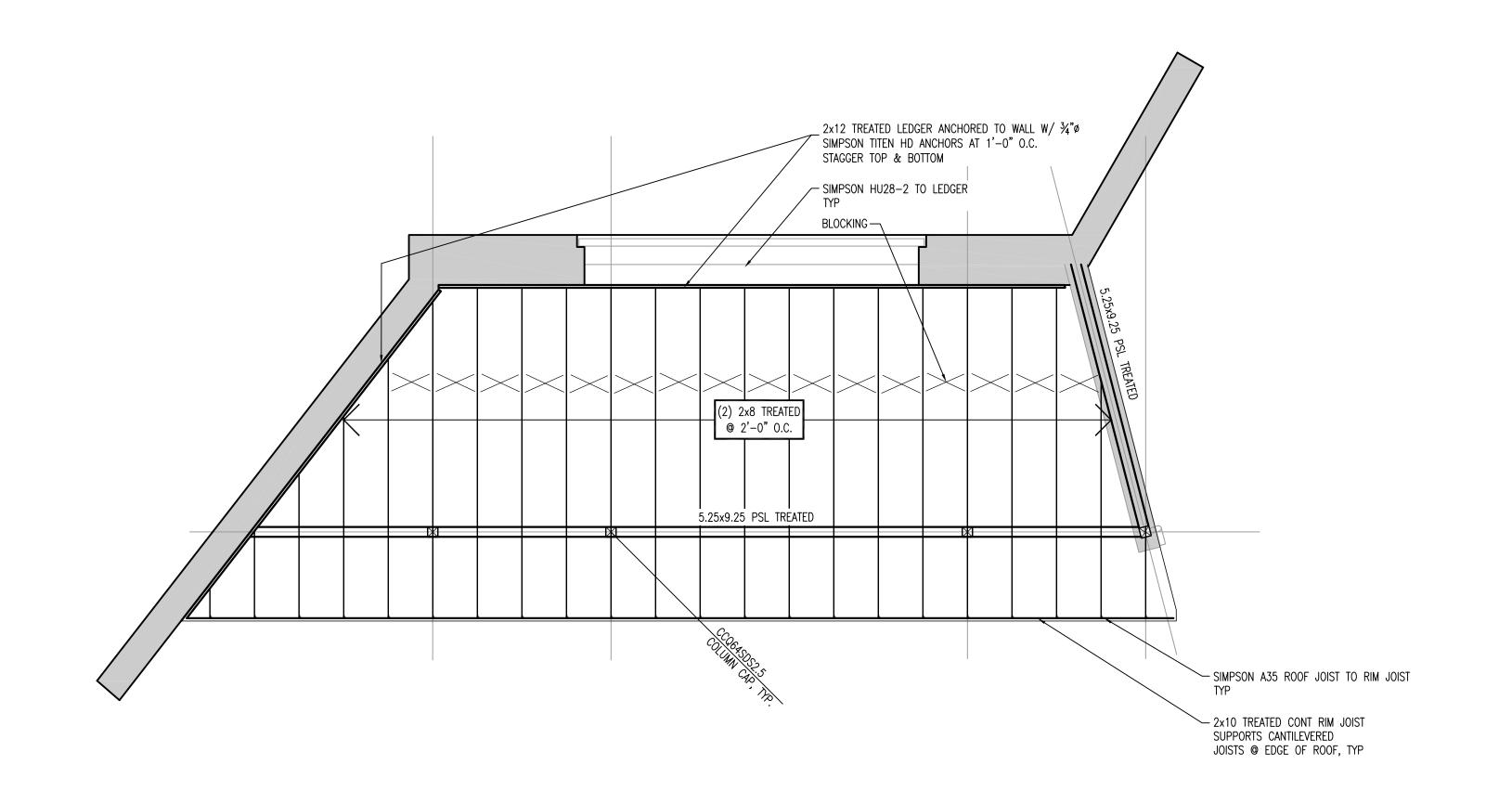
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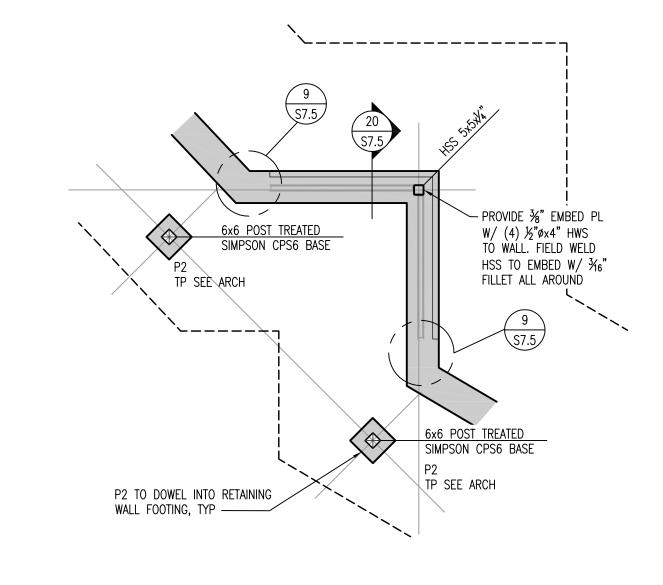


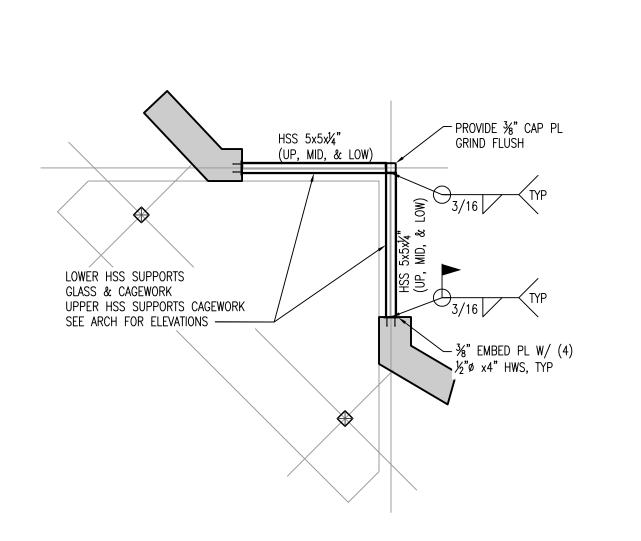
EAST VIEWING ROOF FRAMING PLAN

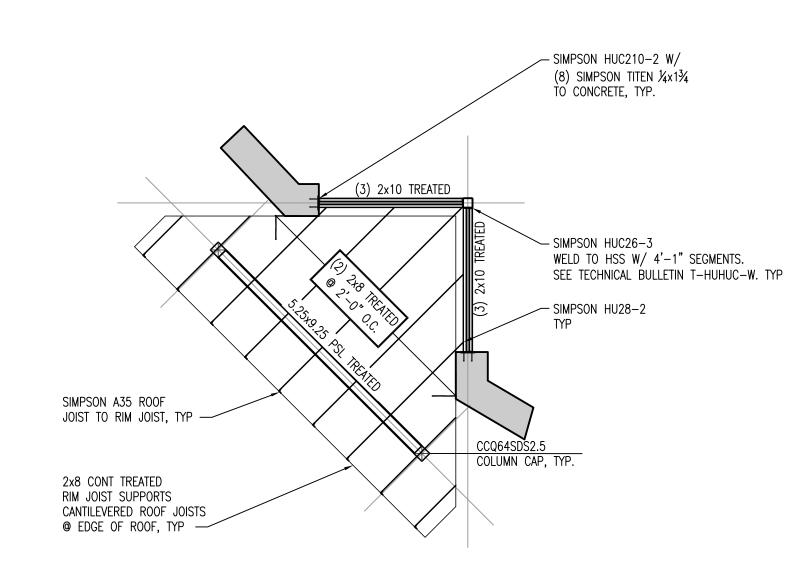


BEAR UNDERWATER VIEWING FOUNDATION PLAN S4.1 SCALE: 1/4"=1'-0"

VIEWING FOUNDATION PLAN







BEAR UNDERWATER VIEWING FOUNDATION PLAN S4.1 SCALE: 1/4"=1'-0"

PIER SCHEDULE PIER PIER DIMENSION
MARK (W x L) PIER REINFORCING

FOOTING SCHEDULE

FOOTING REINFORCING, BOTTOM

3-#5 EA WAY

FOOTING DIMENSION

F1 3'-0" x 3'-0" x 1'-0"

1. CENTER FOOTING UNDER COLUMN AND/OR PIER.

16"x16"

FOOTING MARK

4-#6 VERT W/ #3 TIES @ 10"OC W/ (3) #3 TIES IN TOP 8" 1. CENTER PIER UNDER COLUMN UNLESS NOTED OTHERWISE.

BEAR WEST VIEWING FOUNDATION PLAN

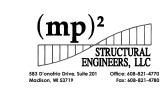
5 SALE: 1/4"=1'-0"

6 BEAR WEST VIEWING— GLASS & CAGEWORK

S4.1) SCALE: 1/4"=1'-0"

BEAR WEST VIEWING ROOF FRAMING PLAN

S4.1 SCALE: 1/4"=1'-0"



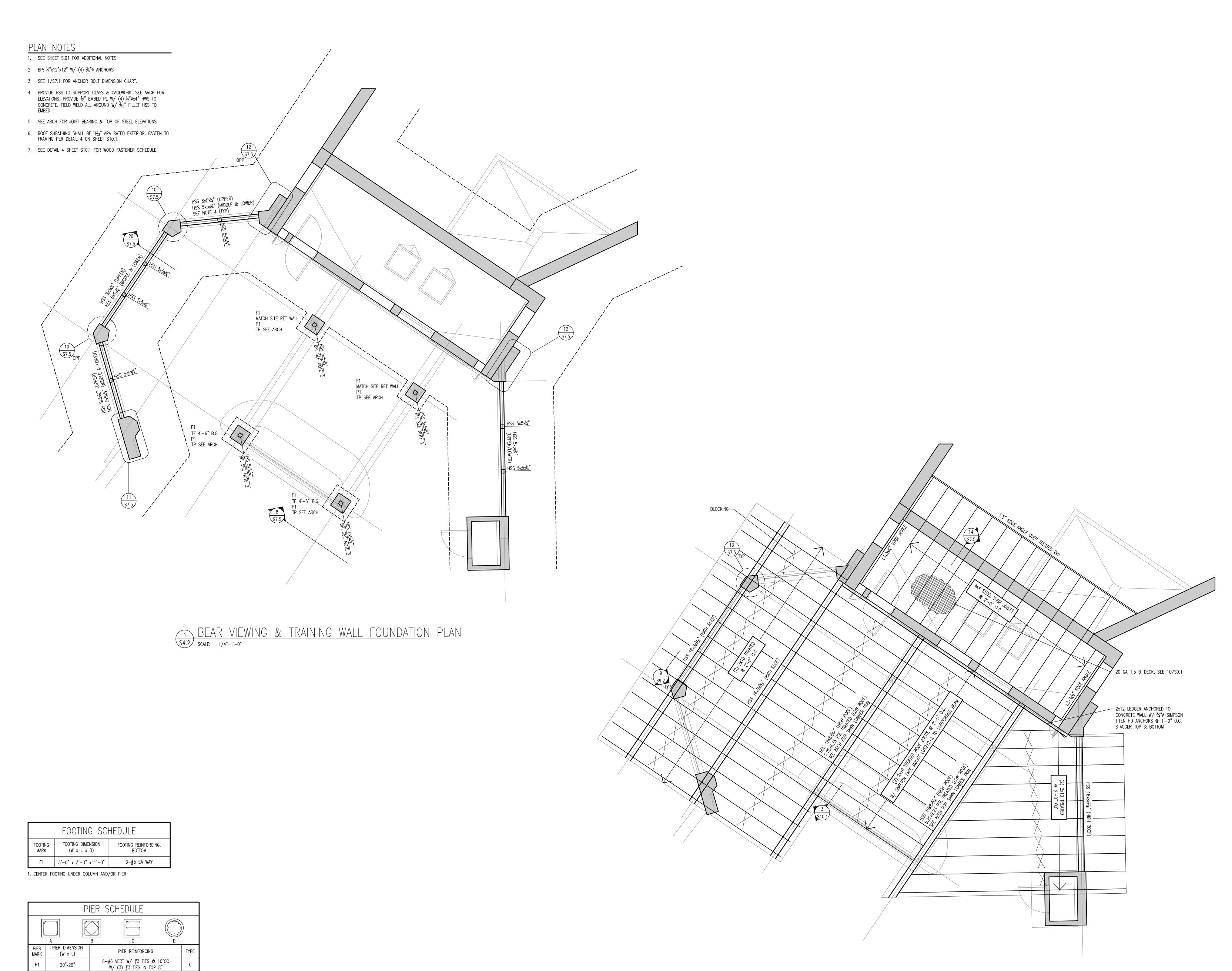




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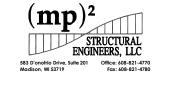
WDM No. drawn: MP2 **BEAR VIEWING** FOUNDATION PLANS & FRAMING PLANS

S4.1



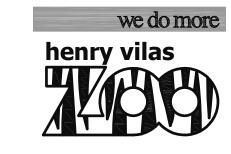
CENTER PIER UNDER COLUMN <u>OR</u> UNDER BEAM BEARING UNLESS NOTED OTHERWISE.







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AL EXHIBIT AND CONCESSIONS
RFB No. 313086
Vilas Zoo - County of Dane

Department of Public Wor

PRINTS ISSUED

07.26.2013 - Schematic Design

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WDM No. drawn: MP2

13046 checked: MP2

BEAR VIEWING & TRAINING
FOUNDATION PLANS &

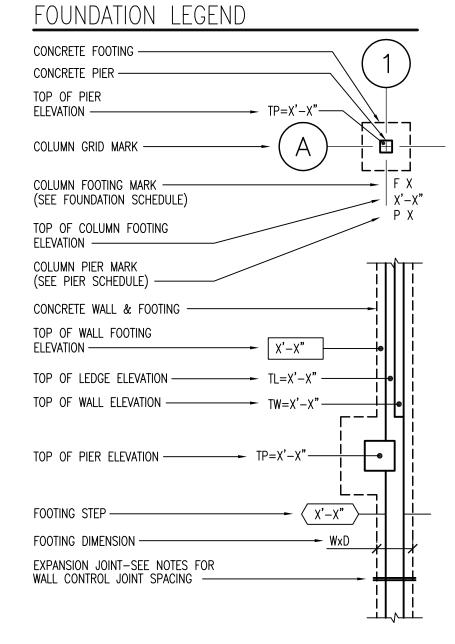
FRAMING PLANS

S4.2

- 1. SEE SHEET S.01 FOR ADDITIONAL NOTES.
- 2. SEE SHEET S7.1 DETAIL 1 FOR ANCHOR BOLT REQUIREMENTS.
- 3. SEE SHEET S7.1 DETAILS 2 & 3 FOR FOOTING & FOUNDATION WALL CORNER REINFORCING.
- 4. SEE SHEET S7.1 DETAILS 4 & 5 FOR ADDED REINFORCING AT ROUND & RECTANGULAR OPENINGS.
- 5. PROVIDE 2-#4 BARS AT ALL DEAD ENDS & REENTRANT CORNERS. SEE DETAIL 6/S7.1.
- 6. SLAB CONTROL JOINTS SHALL BE AS SHOWN ON PLAN OR SIMILAR. JOINT SPACING SHALL NOT EXCEED 10'-0" O.C. SLAB JOINT ASPECT RATIO SHALL NOT EXCEED 1.5:1. SEE DETAIL 7/S7.1.
- 7. SEE SHEET S7.1 DETAIL 8 FOR WALL JOINT REQUIREMENTS.
- 8. SITE PLAN DATUM ELEVATION: 114.00' = 100'-0"
- 9. SLOPE SLAB TO DRAINS. MAINTAIN SLAB THICKNESS.
- 10. ALL FLOOR BARS AND WWF IN SEAL HOLDING AREA AND ALL WALL REINFORCEMENT SURROUNDING POOLS SHALL BE EPOXY COATED (WHETHER SHOWN OR NOT SHOWN IN DETAILS).
- 11. SEE A-DRAWINGS FOR ALL DOOR AND INTERIOR WALL DIMENSIONS.

FOOTING SCHEDULE				
FOOTING MARK	FOOTING DIMENSION (W x L x D)	FOOTING REINFORCING, BOTTOM		
F1	3'-0" x 3'-0" x 1'-0"	4-#5 EA WAY		

CENTER FOOTING UNDER COLUMN AND/OR PIER.

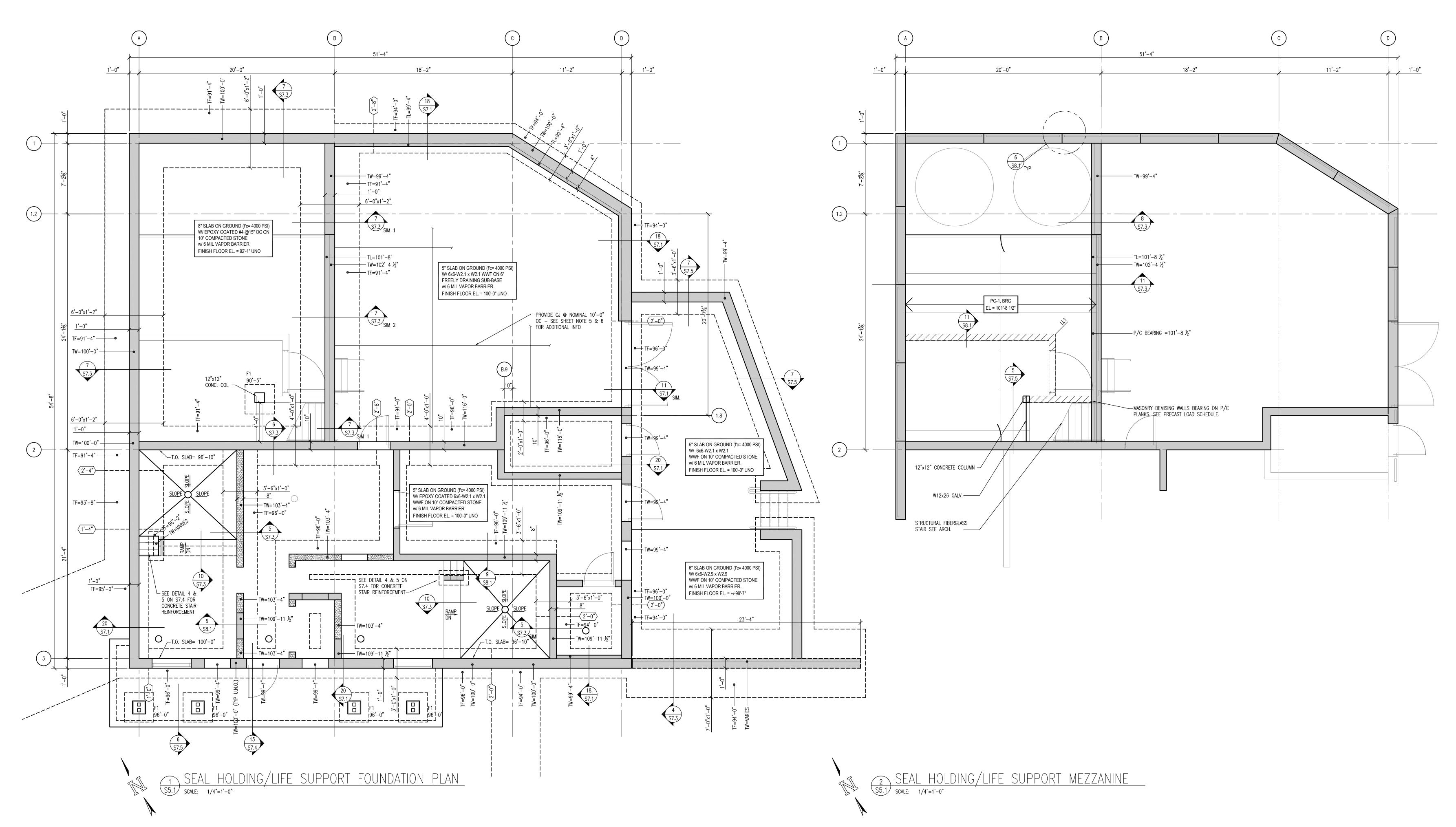


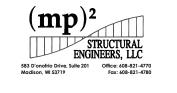
PRECAST SCHEDULE						
MADIZ	PLANK	TOPPING		LOAD INFORMATION		P/C BEARING
MARK	DEPTH	TOPFING	DL (psf)	LL (psf)	SL (psf)	ÉLEVATION
PC-1	8"	NONE	SELF WT. + 10	125	NONE	101'-8 ½"

NOTES:
1. SELF WT. NOTED IN SCHEDULE TO INCLUDE WT. OF TOPPING SLAB NOTED.
2. GROUT ALL SHEAR KEYS AND TOOL SMOOTH

Pl	RECAST PLA	NK LOAD S	CHEDULE
MARK	DEAD LOAD (plf)	LIVE LOAD (plf)	SNOW LOAD (plf)
LL1	600	NONE	NONE

NOTES: 1. ALL LOADS ARE SERVICE LOADS.





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ANIMAL EXHIBIT AND CONCESSION
RFB No. 313086
Henry Vilas Zoo - County of Dane
as Zoo Department of Public Woodell Ave. 1949 Allignt Energy Contor

PRINTS ISSUED

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13046 checked: MP2

SEAL HOLDING / LIFE SUPPORT FOUNDATION PLAN

MEZZANINE FRAMING PLAN

S5.1

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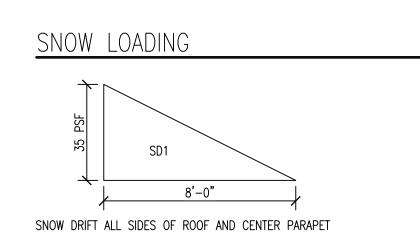
1. SEE SHEET S.01 FOR ADDITIONAL NOTES.

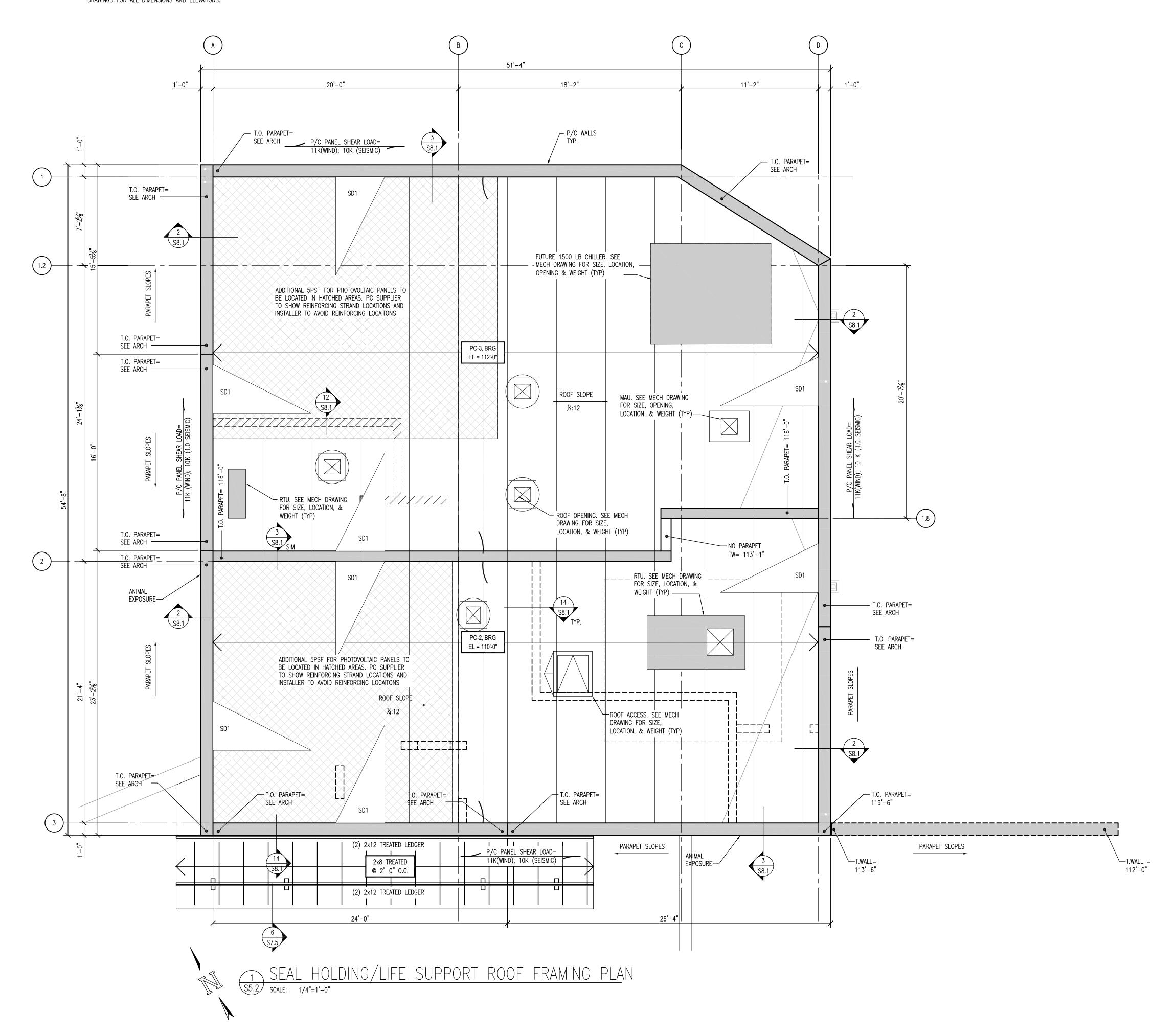
PRECAST NOTES

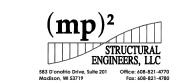
- ALL PRECAST ROOF PLANKS TO HAVE 2" MIN STRAND COVER.
- 2. ALL PRECAST WALLS AND ROOF TO ACT AS DIAPHRAGM AND SHEAR WALLS. GROUT ALL ROOF PLANK SHEAR KEYS AND PROVIDE WALL PANEL TIES AS REQUIRED TO PREVENT UPLIFT AT PANEL BASE.
- 3. SEE SHEET SO.1 FOR ADDITIONAL PRECAST REQUIREMENTS AND ENVIRONMENTAL LOADING REQUIREMENTS.
- 4. STYLE OF PRECAST WALLS (SANDWICH PANEL OR INSULATED CORES)
 SHOWN AS CONCEPTUAL ONLY. ALL PRECAST WALL PANELS SHALL
 HAVE ARCHITECTURAL FINISH AND "R" INSULATION VALUES AS
 SPECIFIED BY ARCHITECT.
- PRECAST WYTHES EXPOSED TO ANIMAL ACTIVITY SHALL BE RIGID ENOUGH TO NOT CRACK WHEN ANIMAL LOADS ARE APPLIED (SEE NOTE 6 BELOW FOR LOADS). ALL WALLS OF BEAR BUILDING AND WEST & SOUTH WALLS OF SEAL BUILDING.
- 6. ALL PRECAST WALL PANELS EXPOSED TO ANIMAL ACTIVITY SHALL BE DESIGNED FOR ENVIRONMENTAL LOADS SHOWN ON SHEET SO.1 AND FOR (2) 2.0k IMPACT POINT LOADS APPLIED OVER A 0.5 SQ-FT AREA AT 2'-0" APART AT ANY LOCATION IN THE BOTTOM 12'-0" ON THE EXTERIOR FACE OF THE WALL.
- 7. PRECAST WALL SHALL BE DESIGNED AS SHEAR WALLS TO RESIST SOIL, WIND, SEISMIC FORCES PER PLAN.
- 8. PROVIDE FORM LINER PER ARCHITECTURAL PLANS.
- 9. SEE A-DRAWINGS FOR WALL ELEVATION REQUIREMENTS & WALL OPENINGS. A-DRAWINGS SHALL GOVERN OVER STRUCTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS.

-							
	PRECAST SCHEDULE						
PLANK		TOPPING	LOAD INFORMATION			P/C BEARING	
MARK	DEPTH	TOPPING	DL (psf)	LL (psf)	SL (psf)	ÉLEVATION	
PC-2	8"	NONE	SELF WT. + 10	20	23.1 + DRIFT	110'-0"	
PC-3	10"	NONE	SELF WT. + 10	20	23.1 + DRIFT	112'-0"	

NOTES:
1. SELF WT. NOTED IN SCHEDULE TO INCLUDE WT. OF TOPPING SLAB NOTED.
2. GROUT ALL SHEAR KEYS AND TOOL SMOOTH









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1919 Alliant Energy Center N

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SEAL HOLDING / LIFE SUPPORT ROOF FRAMING PLAN

S5.2

- 1. SEE SHEET S.01 FOR ADDITIONAL NOTES.
- 2. SEE ARCH FOR JOIST BEARING ELEVATION.
- 3. ROOF SHEATHING SHALL BE $^{1}\%_{2}$ " APA RATED EXTERIOR GRADE. FASTEN TO FRAMING PER DETAIL 4 ON SHEET 10.1.

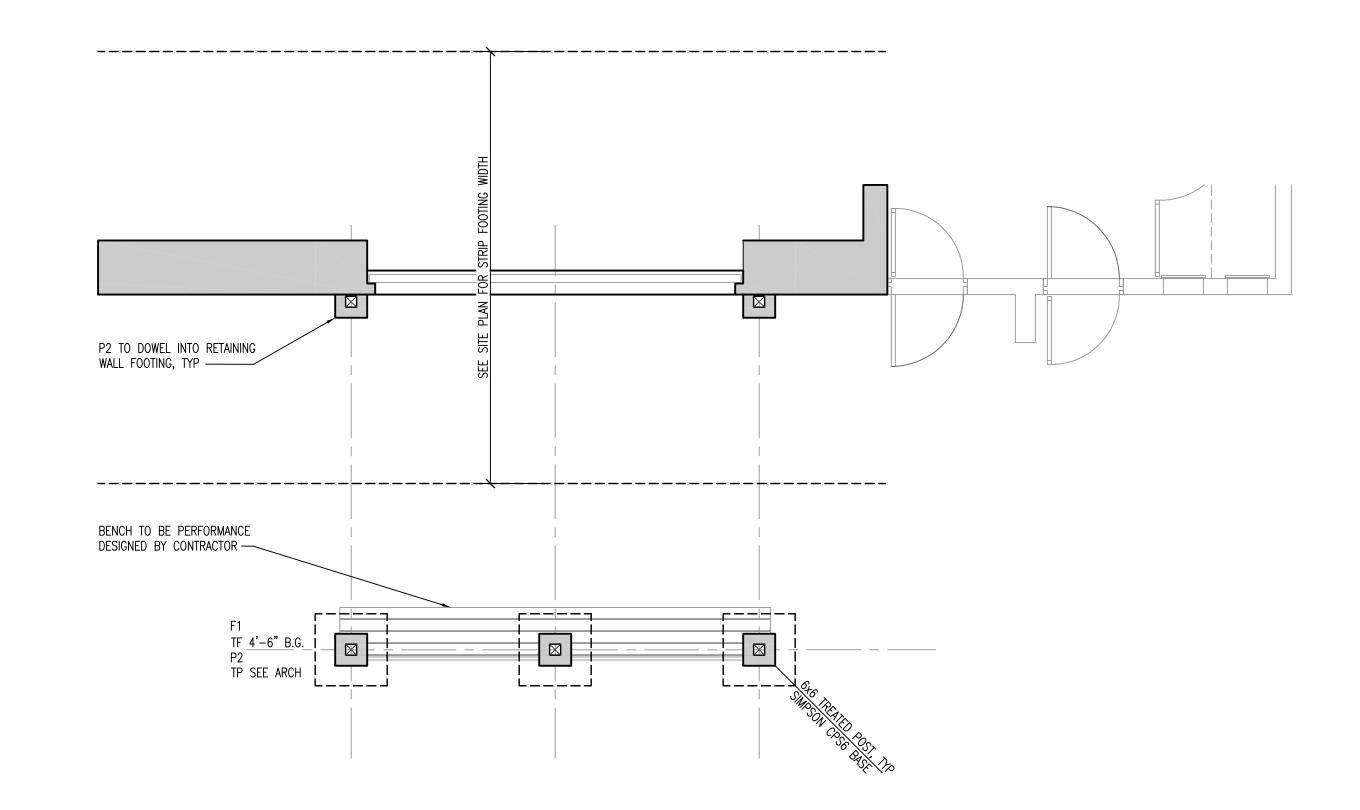
4. SEE DETAIL 4 SHEET S10.1 FOR WOOD FASTENER SCHEDULE.

FOOTING SCHEDULE FOOTING MARK FOOTING DIMENSION FOOTING REINFORCING, $(W \times L \times D)$ BOTTOM 3-#5 EA WAY F1 3'-0" x 3'-0" x 1'-0"

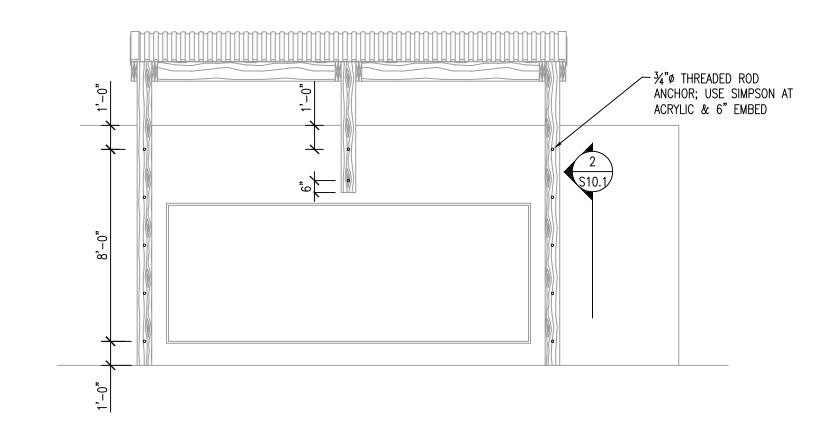
1. CENTER FOOTING UNDER COLUMN AND/OR PIER.

	Р	PIER SCHEDULE				
6	A	B C D)			
PIER MARK	PIER DIMENSION (W x L)	PIER REINFORCING	TYPE			
P2	16"x16"	4-#6 VERT W/ #3 TIES @ 10"0C W/ (3) #3 TIES IN TOP 8"	А			
1. CENTER PIER UNDER COLUMN <u>OR</u> UNDER BEAM BEARING						

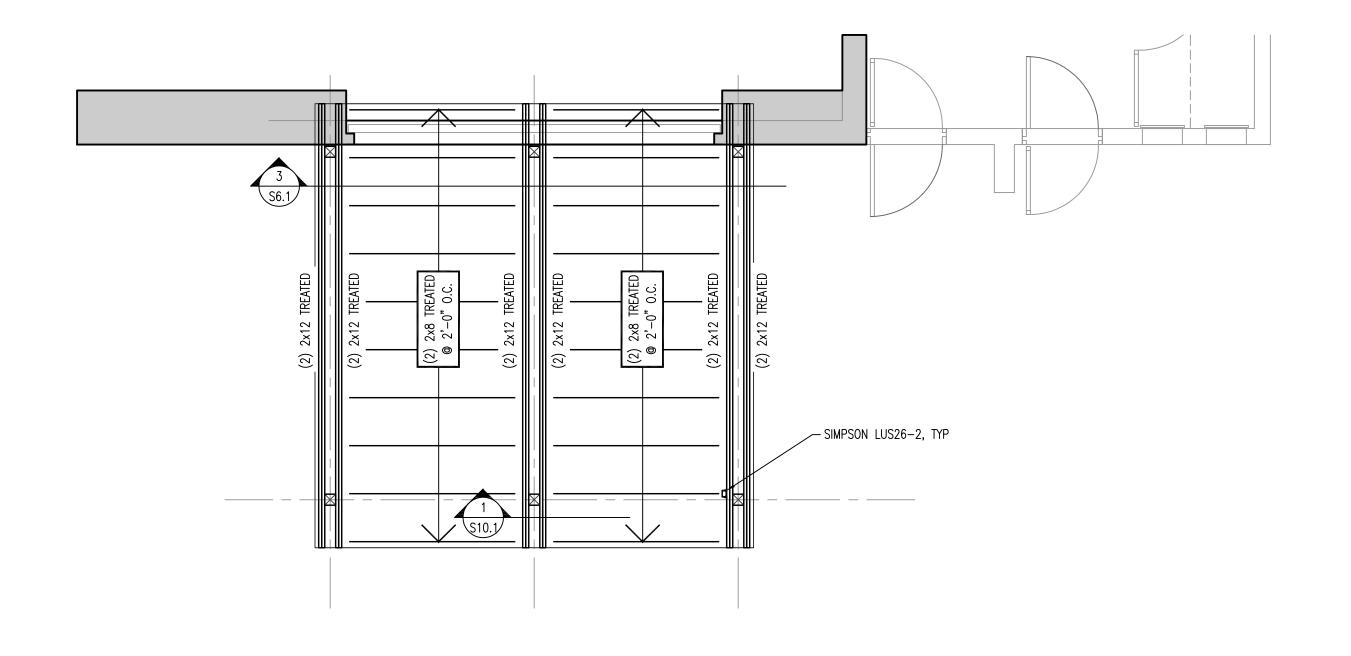
UNLESS NOTED OTHERWISE.



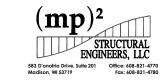




SEAL VIEWING ELEVATION
S6.1 SCALE: 1/4"=1'-0"

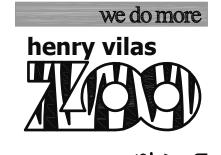


SEAL VIEWING ROOF FRAMING PLAN
S6.1 SCALE: 1/4"=1'-0"





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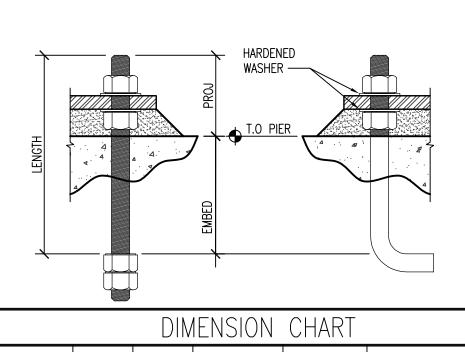


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ROOF FRAMING PLAN

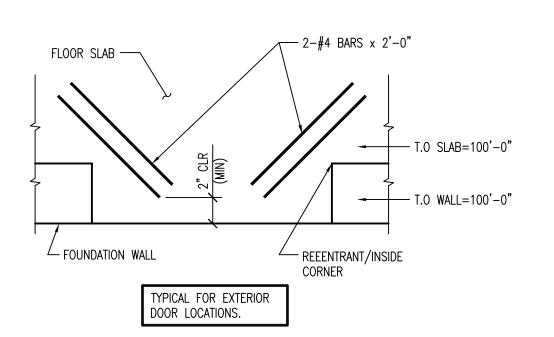


DIMENSION CHART					
DIAMETER	LENGTH	EMBED	НООК	PROJECTION	NOTES
1/2	12	8	2	4	1,2
3/4	16	12	3	4	1,2
1	19	15	4	4	1,2

ALL ANCHORS F1554, GRADE 36.
 LENGTH = 1'-0" AT INTERIOR COLUMN FOOTINGS WITH 12" DEPTH.

ANCHOR BOLT DIMENSION CHART

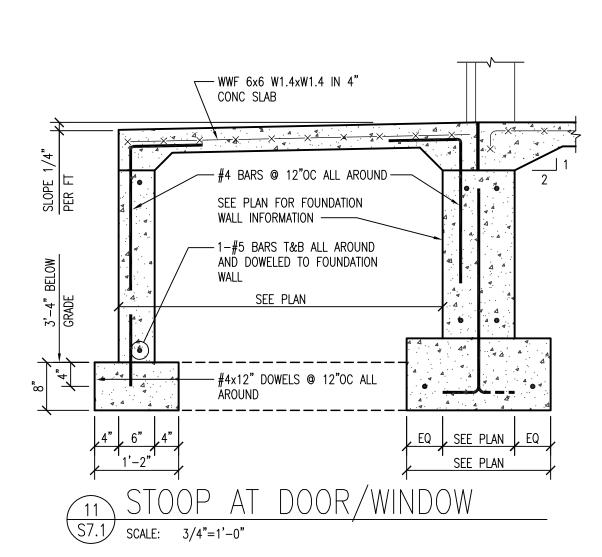
S7.1 SCALE: NTS

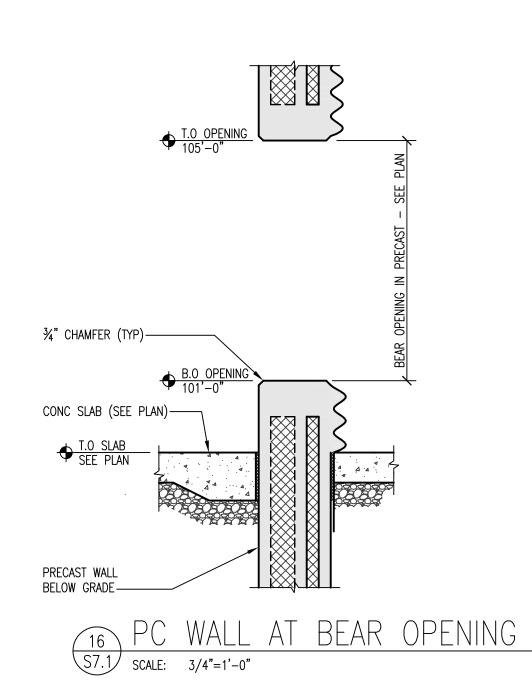


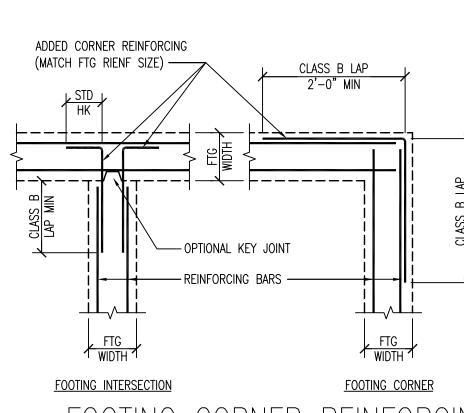
SLAB REINF AT REENTRANT

CORNERS W/O CONTROL JTS

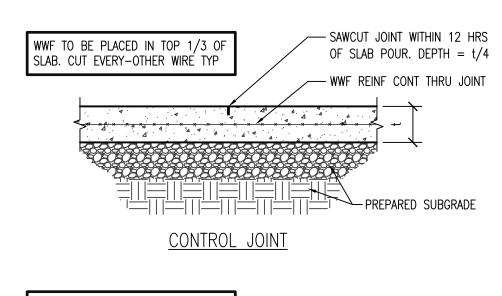
S7.1 SCALE: 3/4"=1'-0"

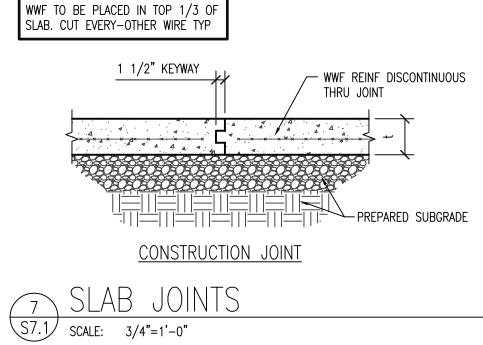


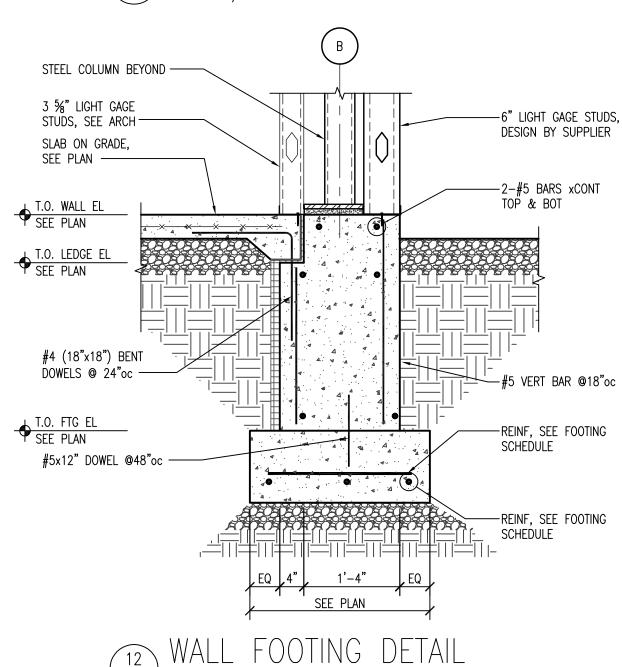


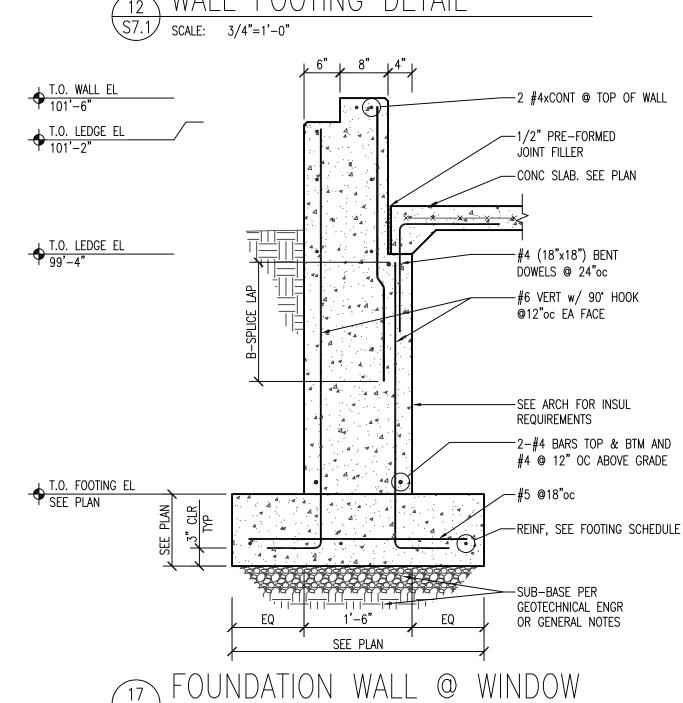




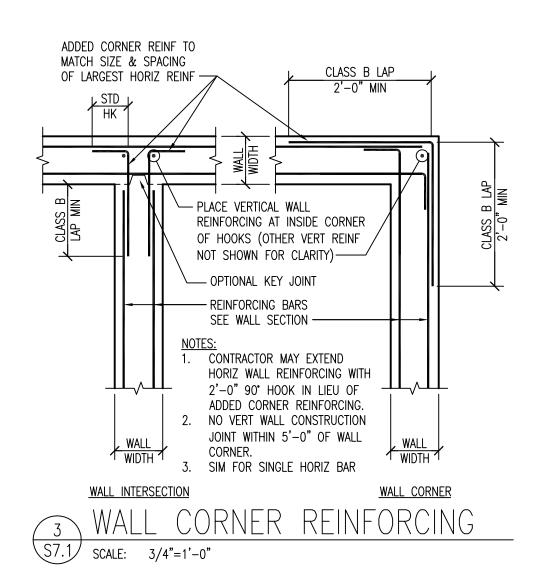


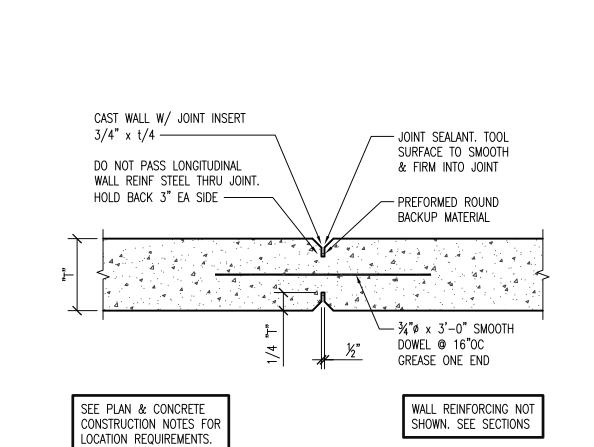


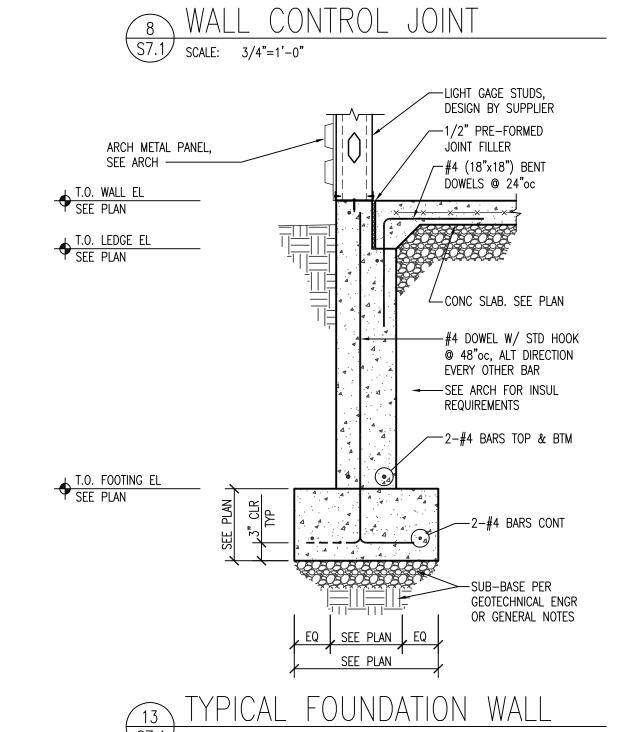


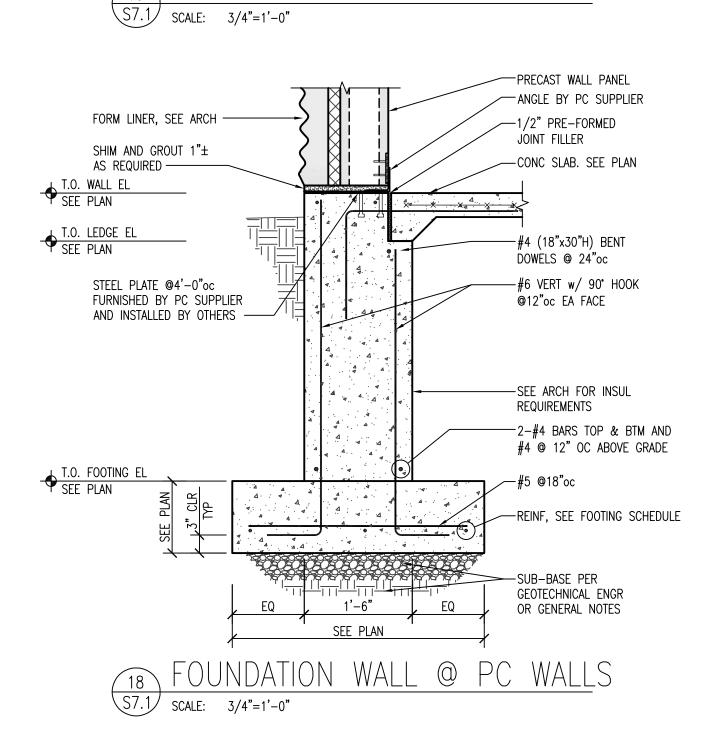


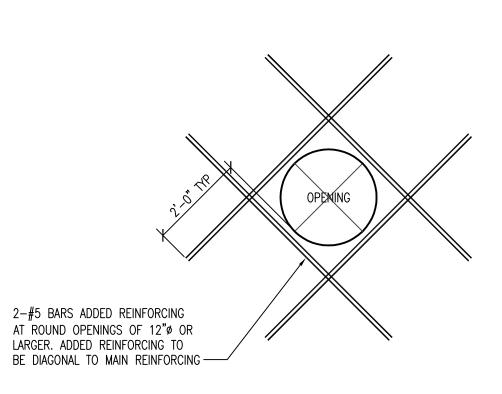
\$7.1 SCALE: 3/4"=1'-0"







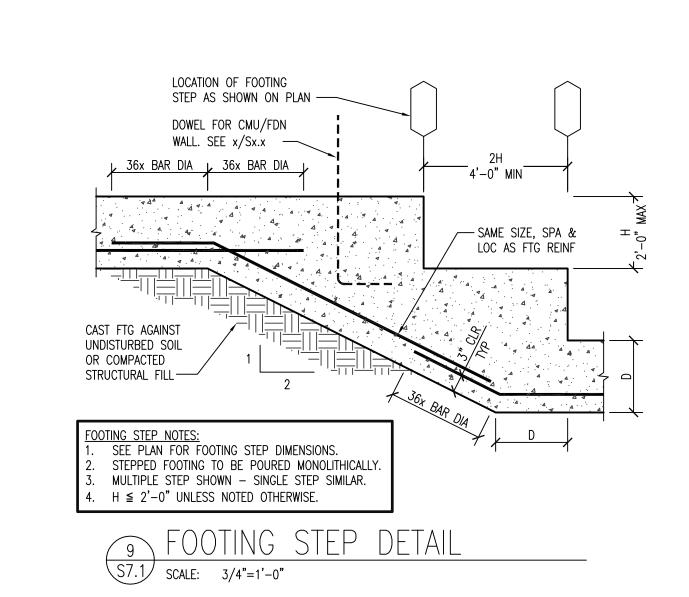


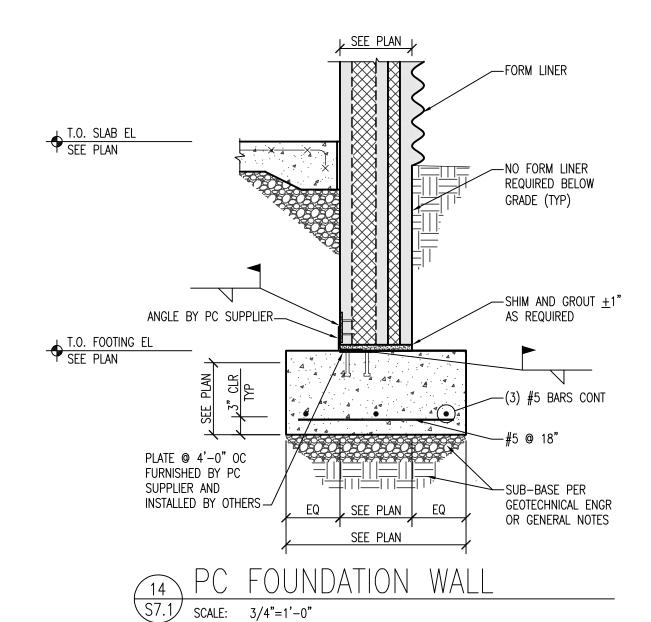


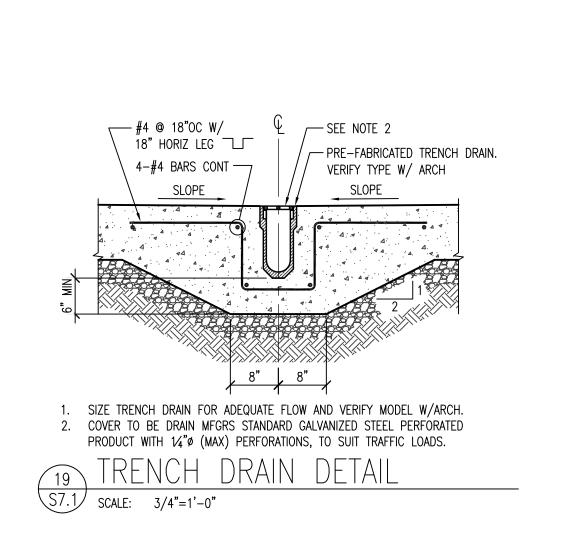
ADDED REINFORCING

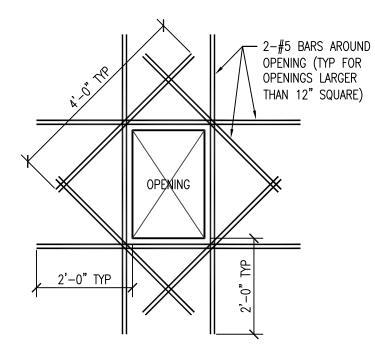
AT ROUND OPENINGS

S7.1 SCALE: 1/2"=1'-0"



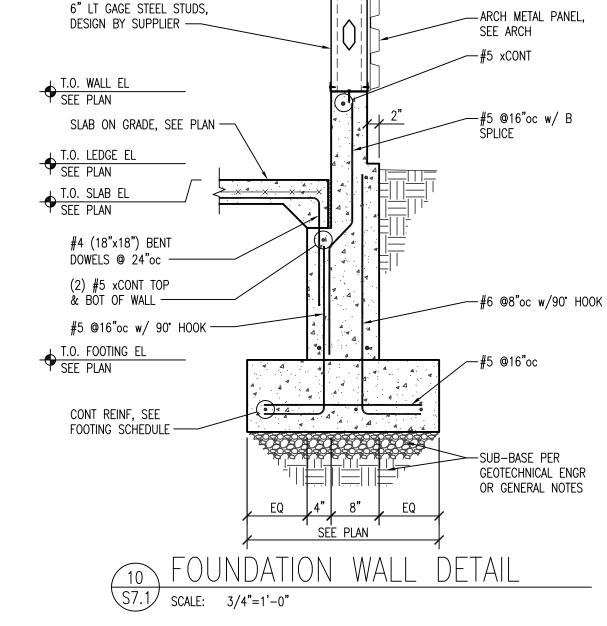


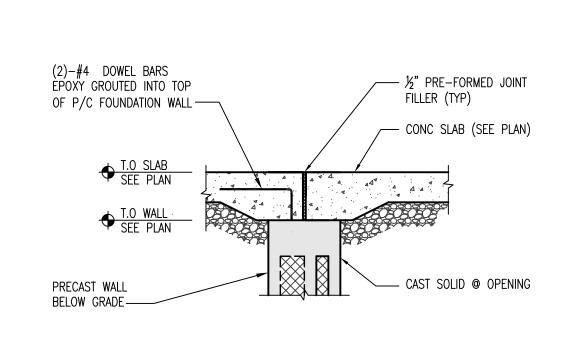




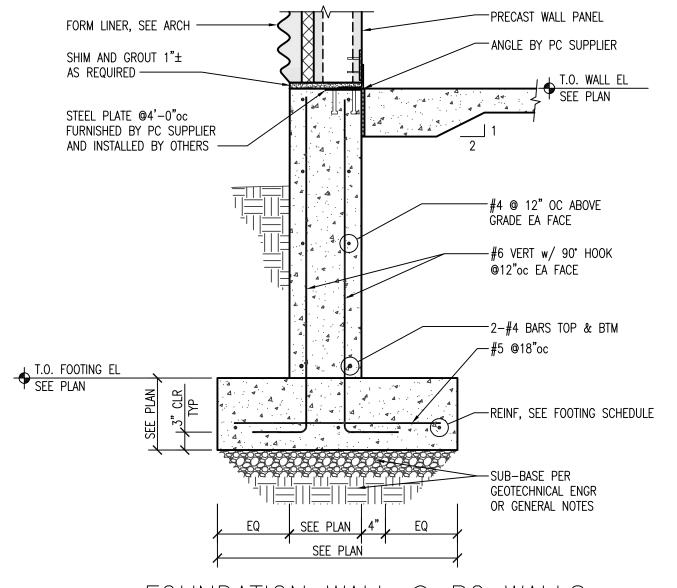
ADDED REINFORCING AT
RECTANGULAR OPENINGS

57.1 SCALE: 1/2"=1'-0"









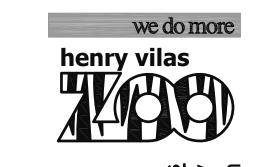
FOUNDATION WALL @ PC WALLS

S7.1 SCALE: 3/4"=1'-0"



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ANIMAL EXHIBIT AND CONCESSIONS

RFB No. 313086

Henry Vilas Zoo - County of Dane
las Zoo Department of Public Work

ndall Ave 1919 Alliant Energy Center Wa

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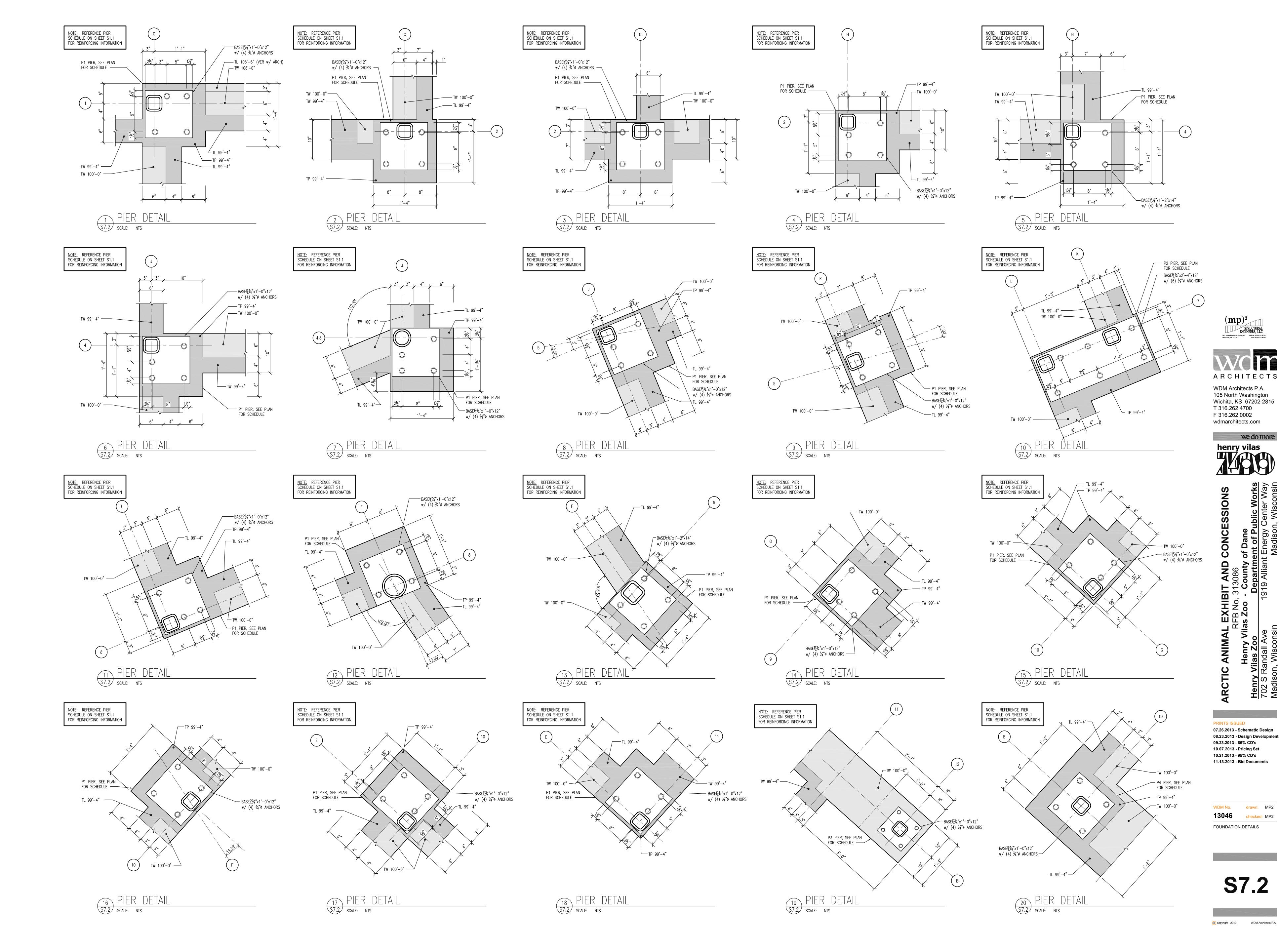
11.13.2013 - Bid Documents

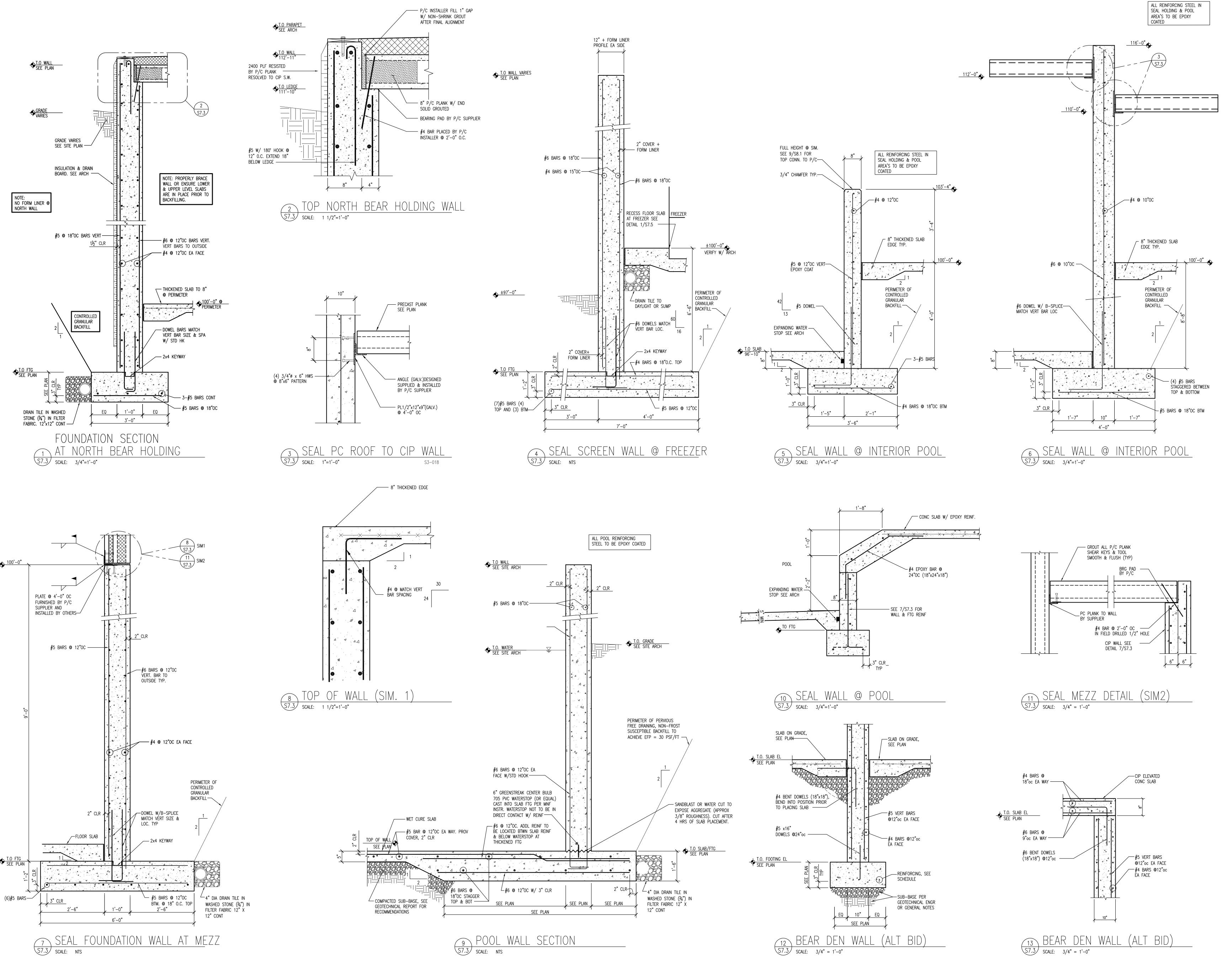
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13046 checked: MP2

FOUNDATION DETAILS

C7 1



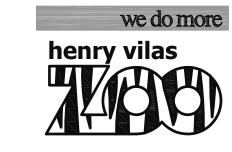


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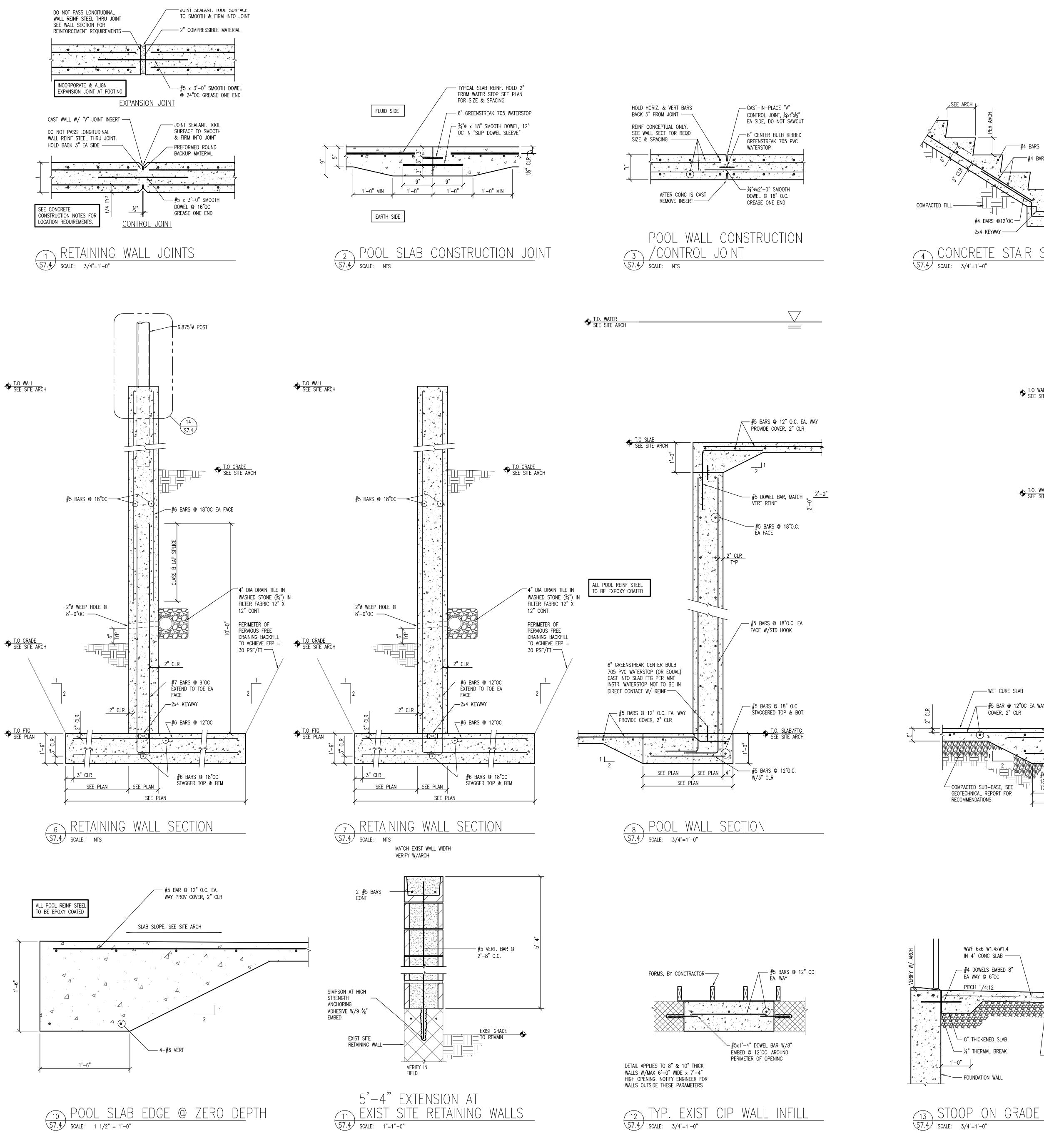
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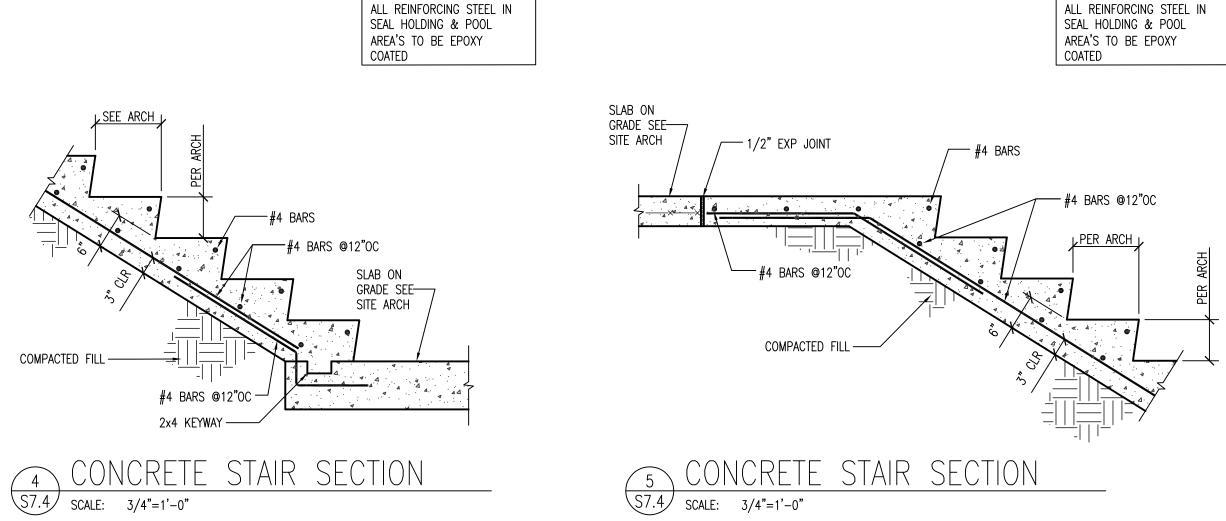
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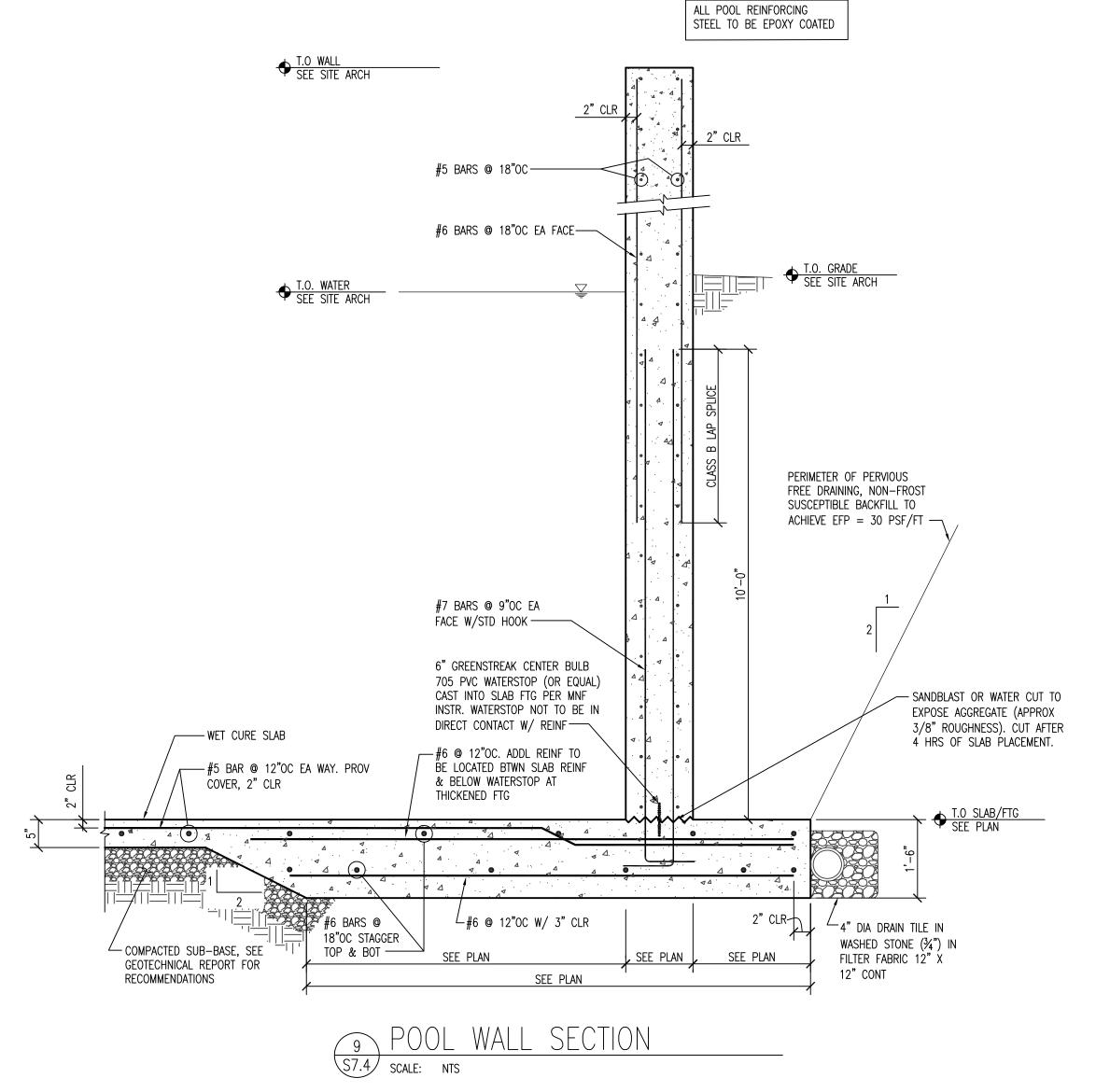
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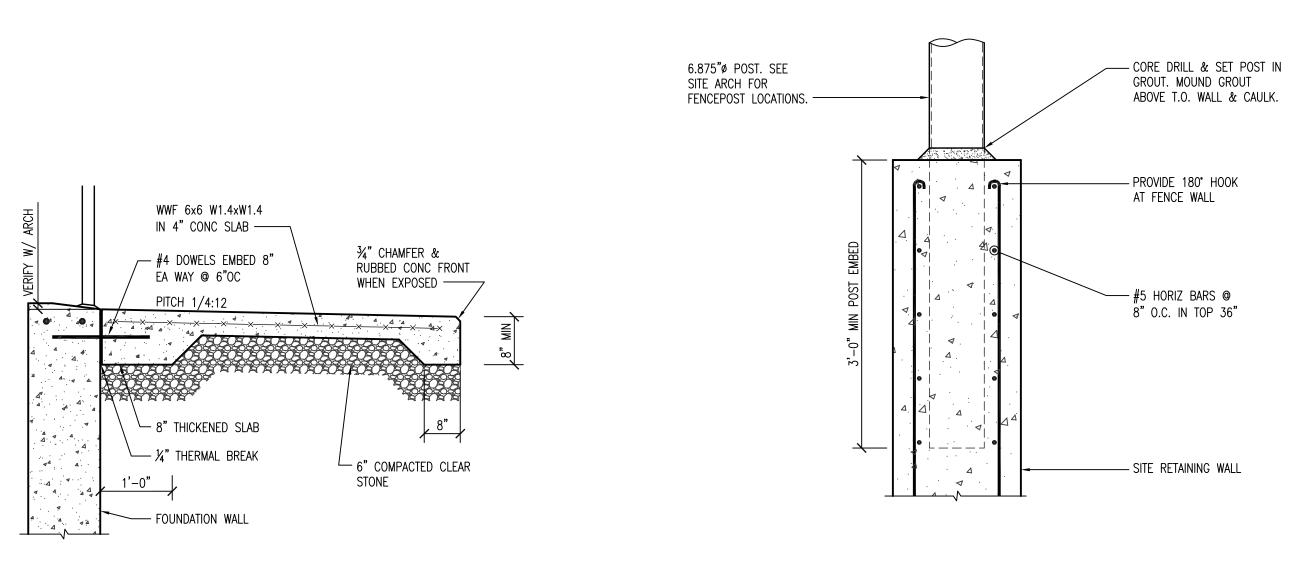
FOUNDATION DETAILS

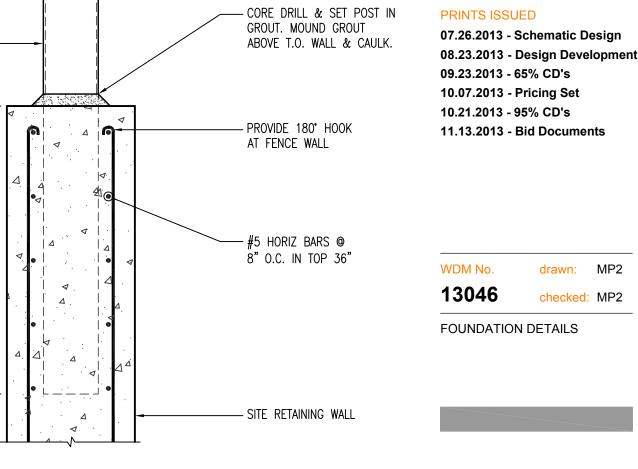
S7.3











FENCE POST EMBEDMENT
S7.4 SCALE: 1"=1"-0"

S7.4

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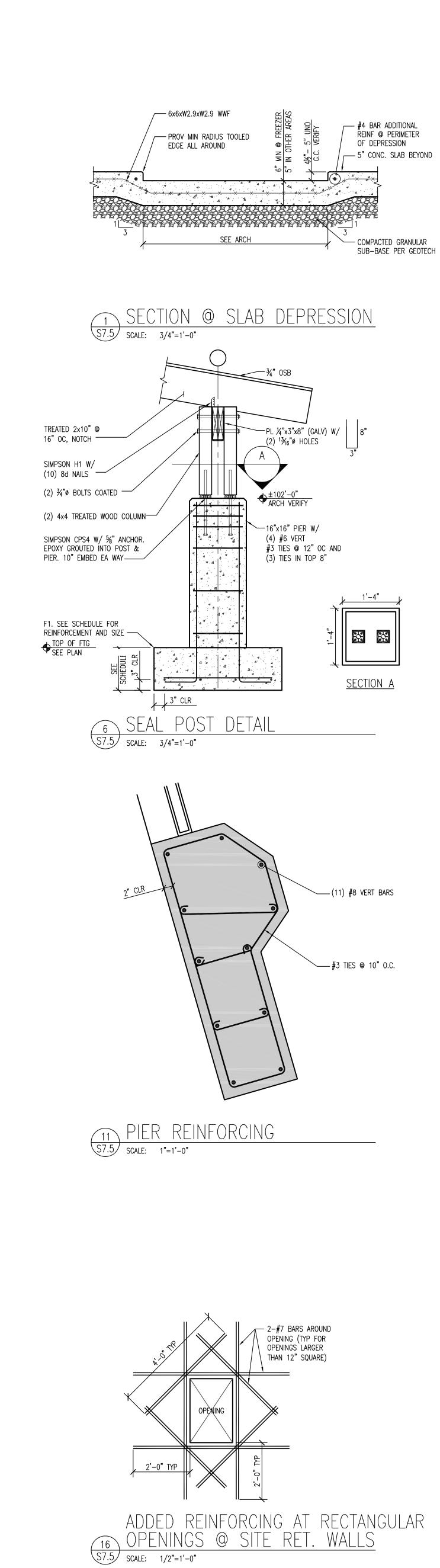
T 316.262.4700

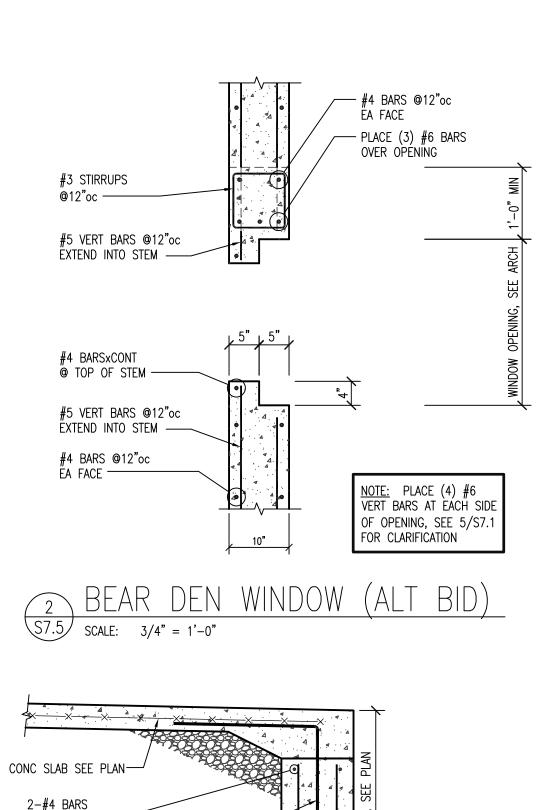
F 316.262.0002

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henry vilas

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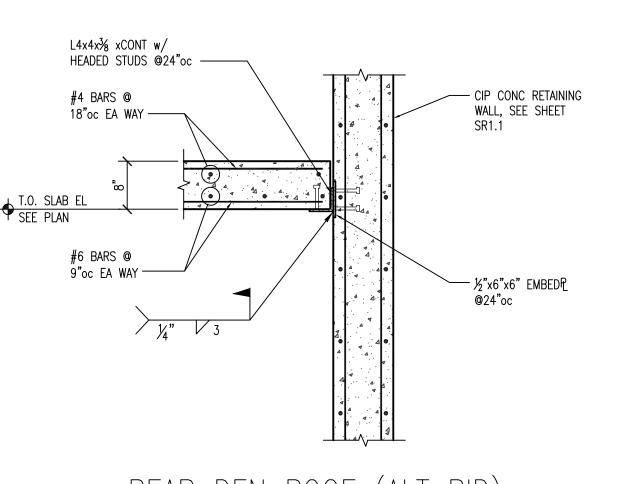
#4 BAR ADDITIONAL REINF @ PERIMETER

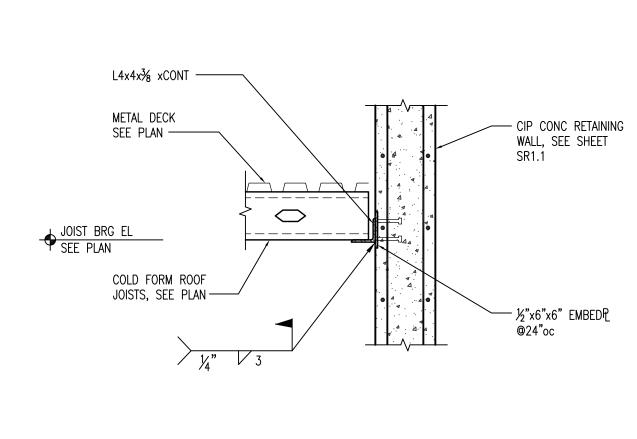
— 5" CONC. SLAB BEYOND

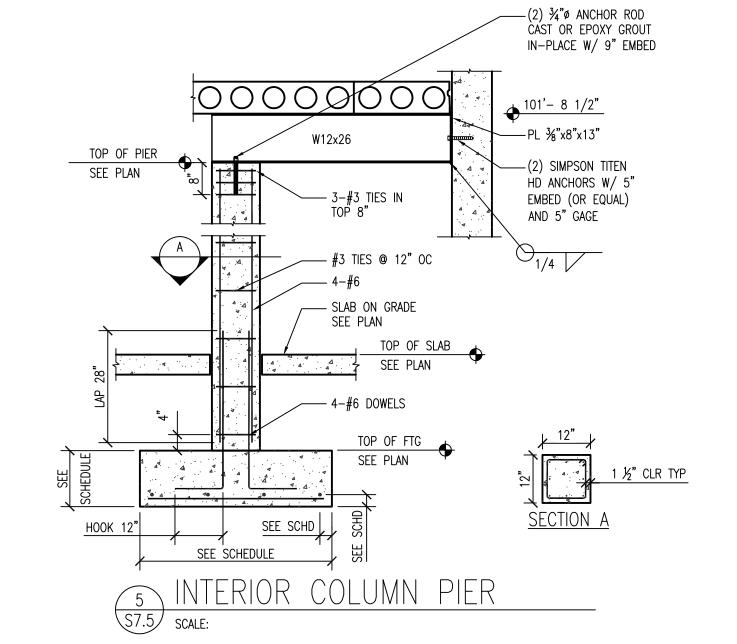
- COMPACTED GRANULAR SUB-BASE PER GEOTECH

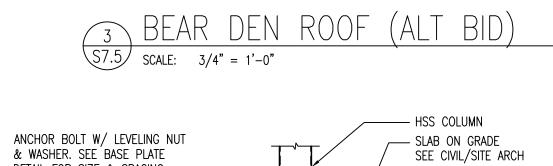
SECTION A

OF DEPRESSION









TOP OF SLAB

— 1 1/2" NON-SHRINK NON-METALLIC GROUT TYP

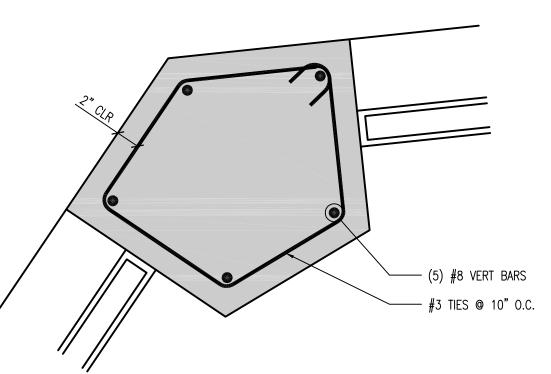
DETAIL FOR SIZE & SPACING -

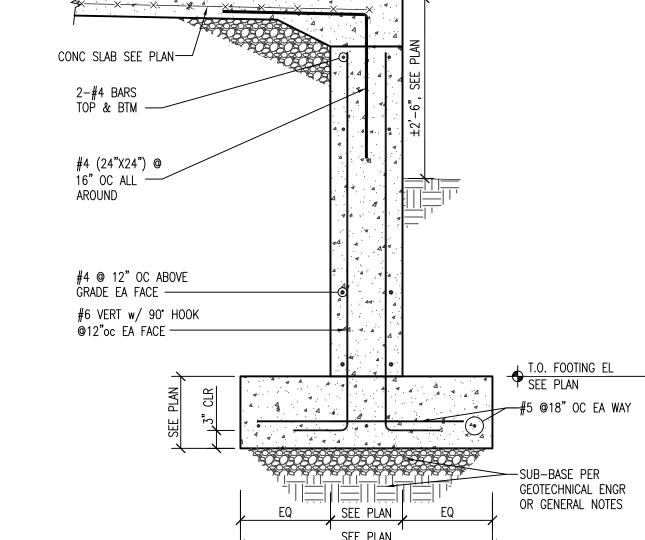
TOP OF PIER
SEE ARCH

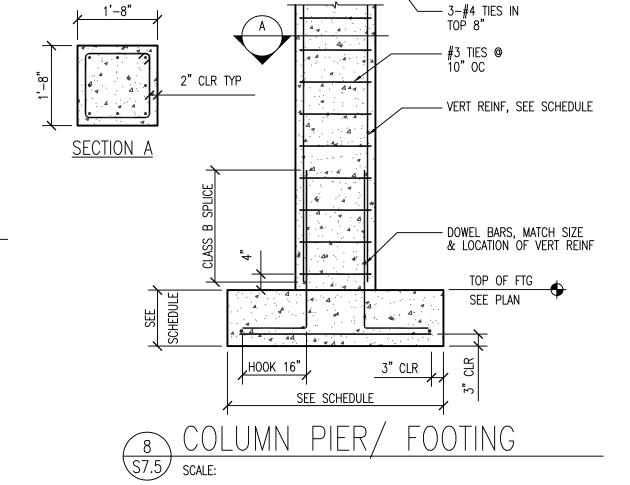


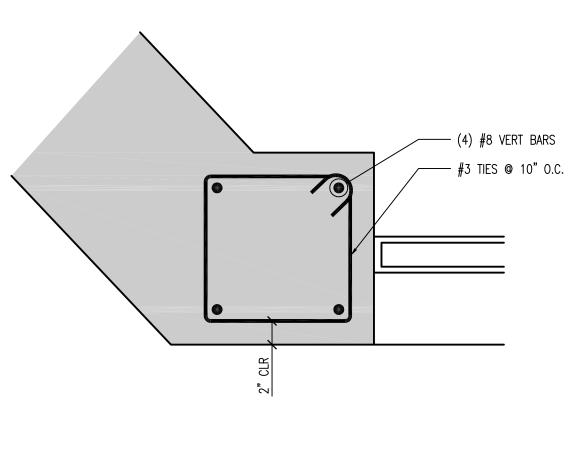
BEAR DEN ROOF (ALT BID)

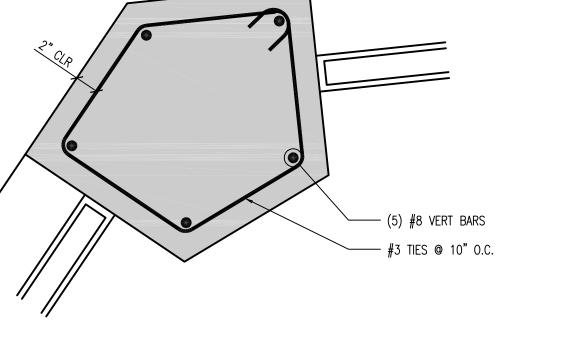
S7.5 SCALE: 3/4" = 1'-0"

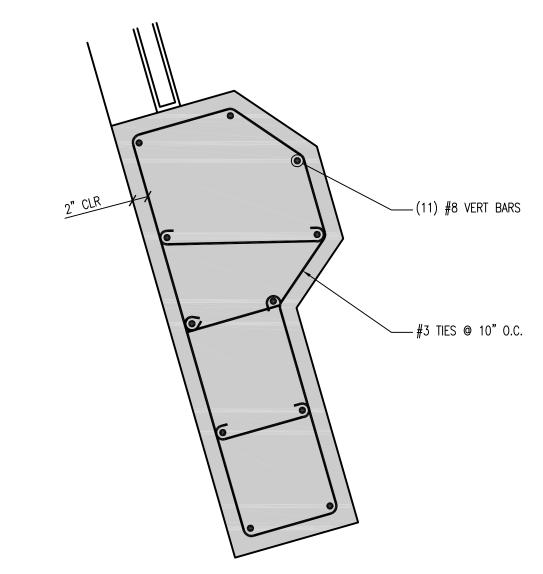


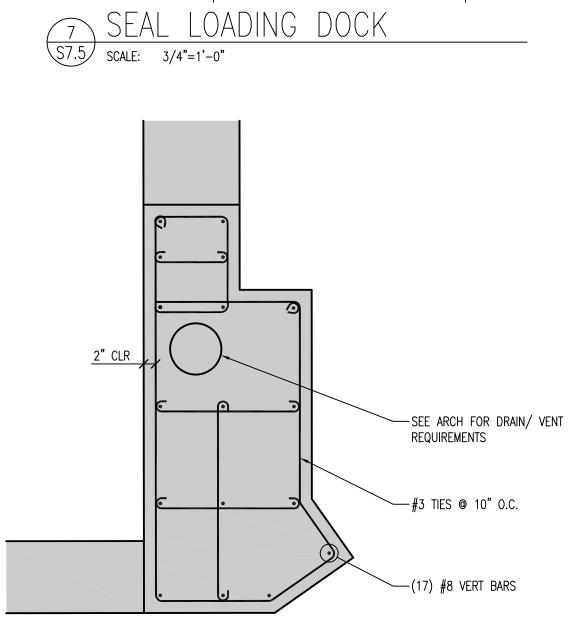


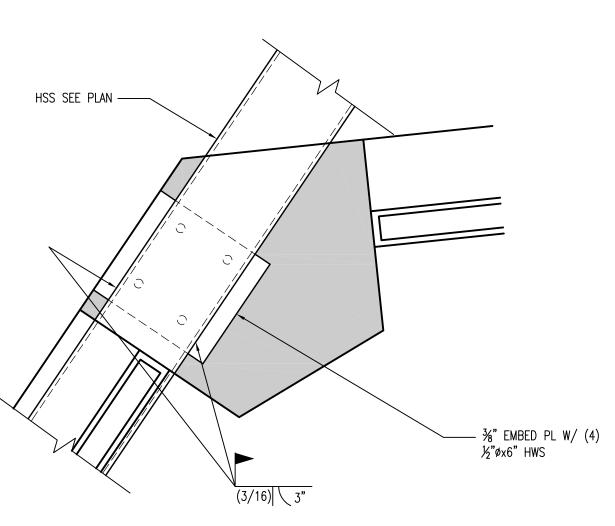


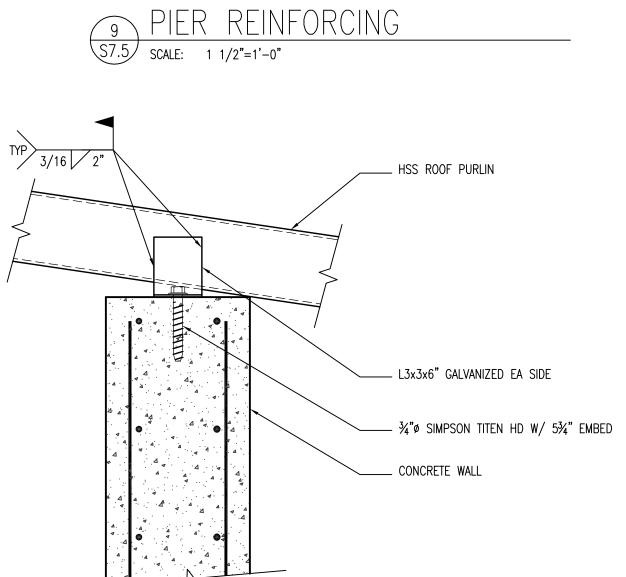


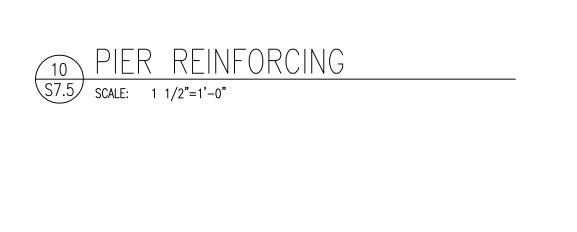


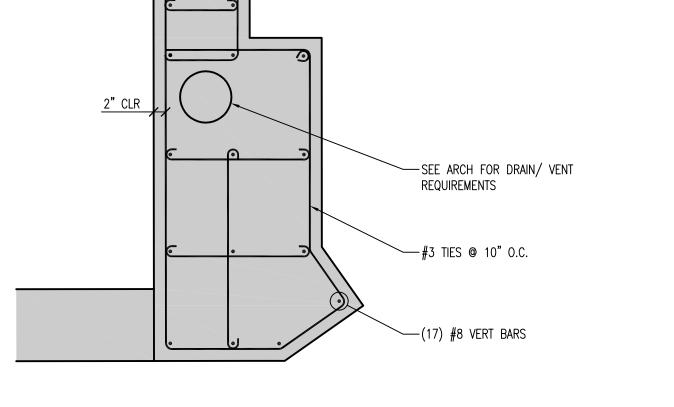


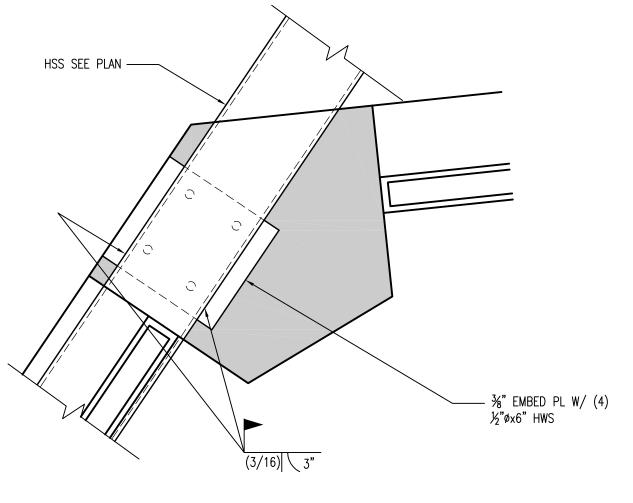








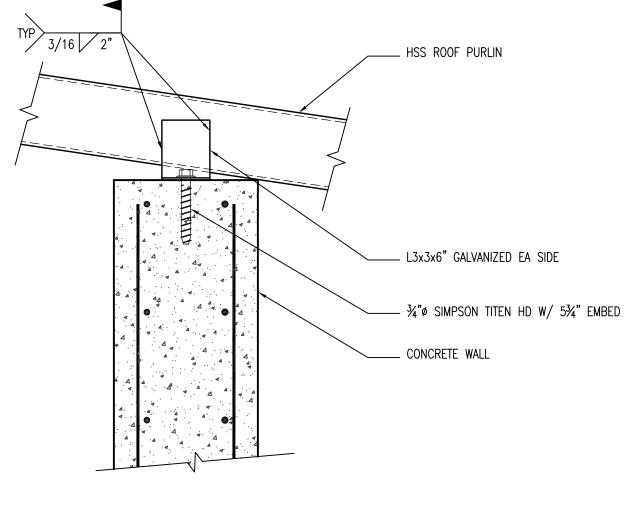


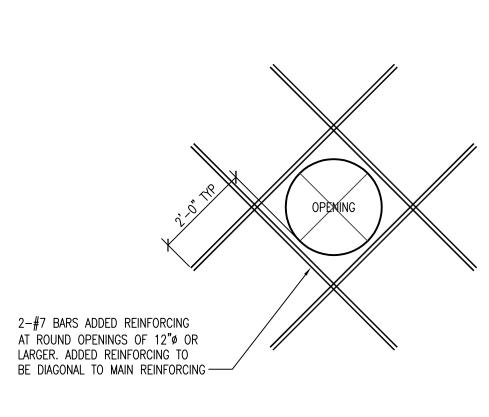


HSS TO CONCRETE PIER

S7.5 SCALE: 1 1/2"=1'-0"

SITE BEAR DEN LID
S7.5 SCALE: 3/4"=1'-0"

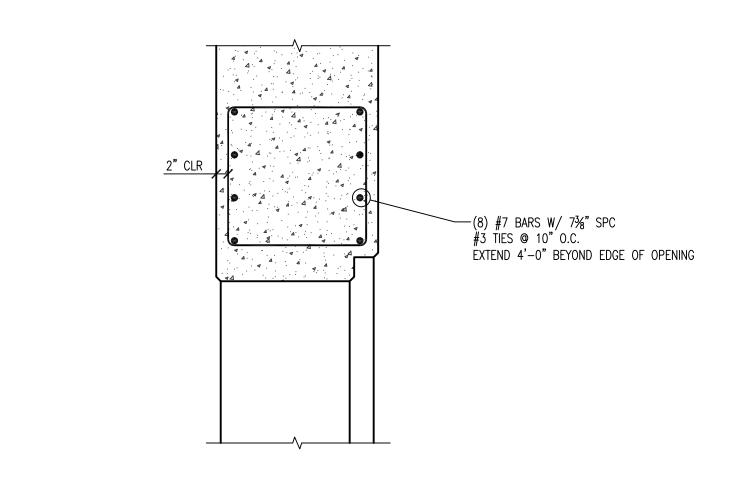




14 LIGHT GAGE PURLIN TO CONC WALL S7.5 SCALE: 1 1/2"=1'-0"

ADDED REINFORCING AT ROUND
OPENINGS @ SITE RET. WALLS

S7.5 SCALE: 1/2"=1'-0"

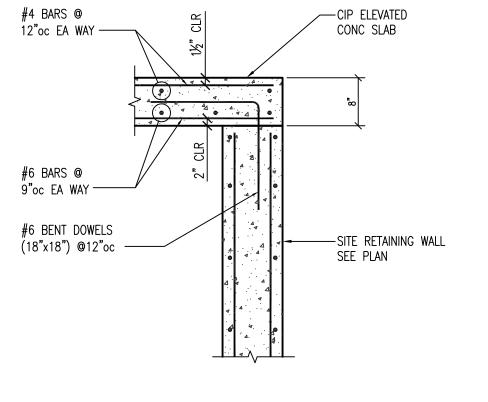


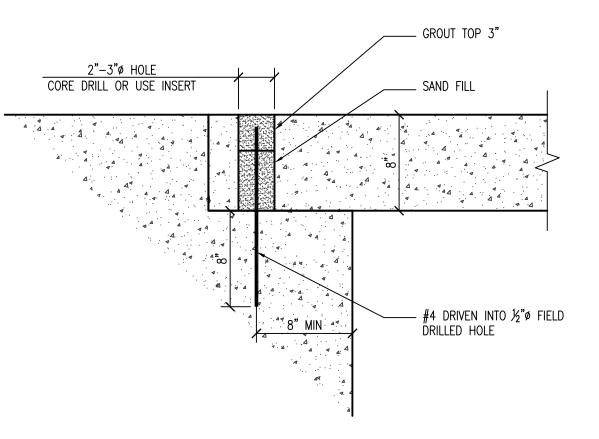
HEADER @ UNDERWATER VIEWING

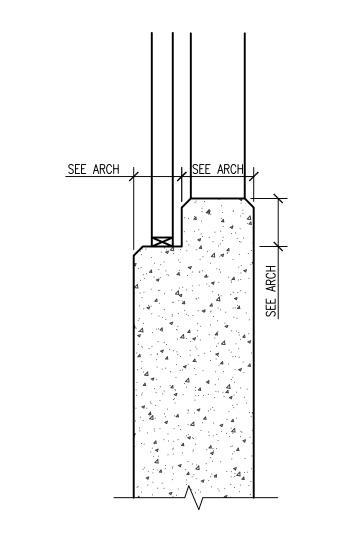
\$7.5 SCALE: 3/4"=1'-0"

PIER REINFORCING

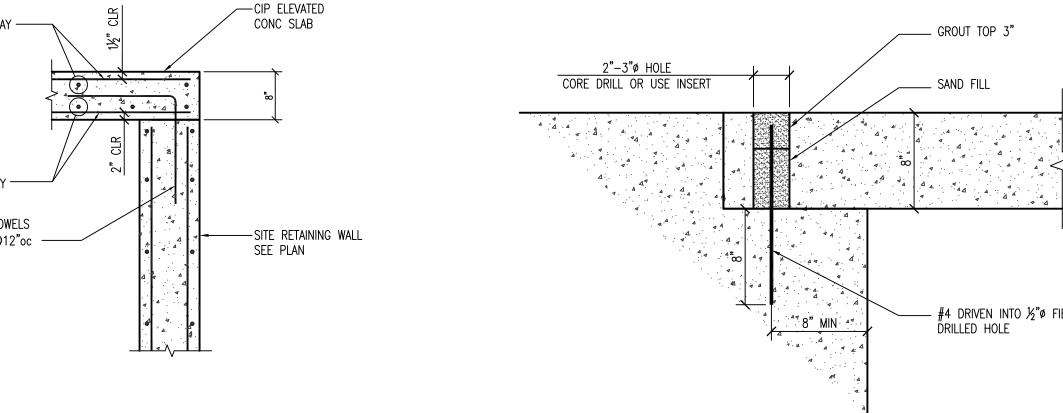
S7.5 SCALE: 3/4"=1'-0"















PRINTS ISSUED

09.23.2013 - 65% CD's

10.07.2013 - Pricing Set 10.21.2013 - 95% CD's 11.13.2013 - Bid Documents

07.26.2013 - Schematic Design

08.23.2013 - Design Development

 $(mp)^2$

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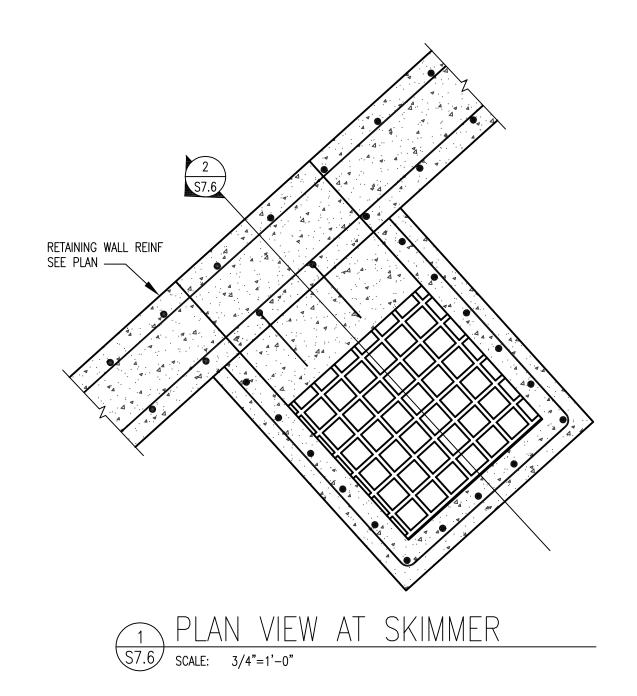
henry vilas

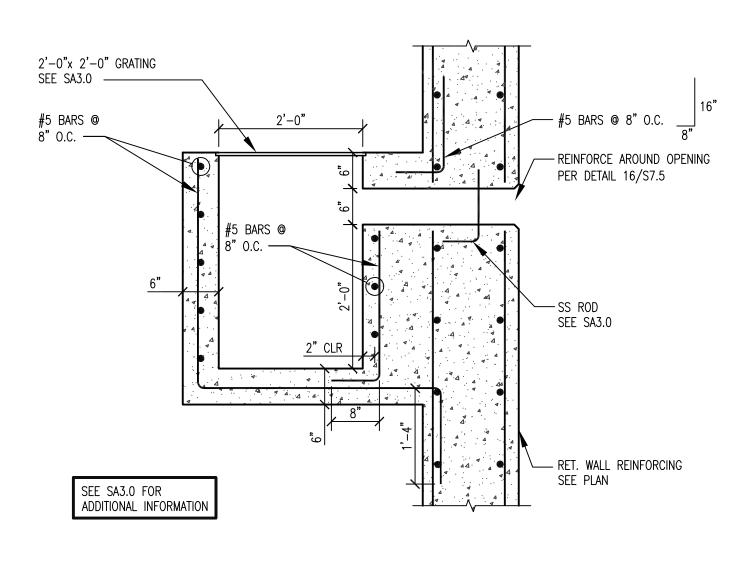
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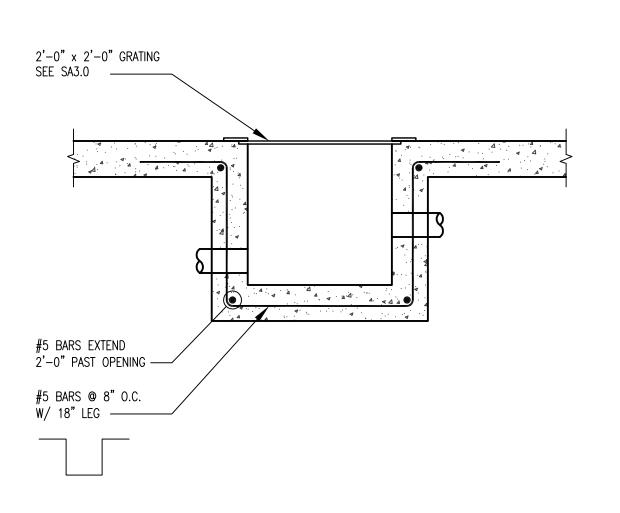
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S7.5

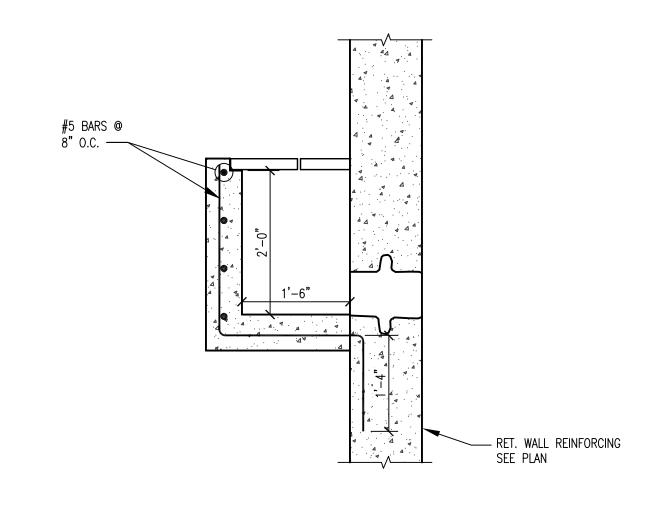






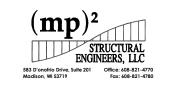


3 POOL DRAIN S7.6 SCALE: 3/4"=1'-0"



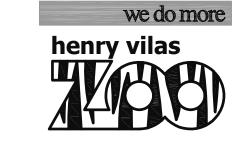
POOL LEVEL SENSOR

S7.6 SCALE: 3/4"=1'-0"





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RF Henry Vilas Zoo 702 S Randall Ave

PRINTS ISSUED

07.26.2013 - Schematic Design

08.23.2013 - Design Development

09.23.2013 - 65% CD's

10.07.2013 - Pricing Set

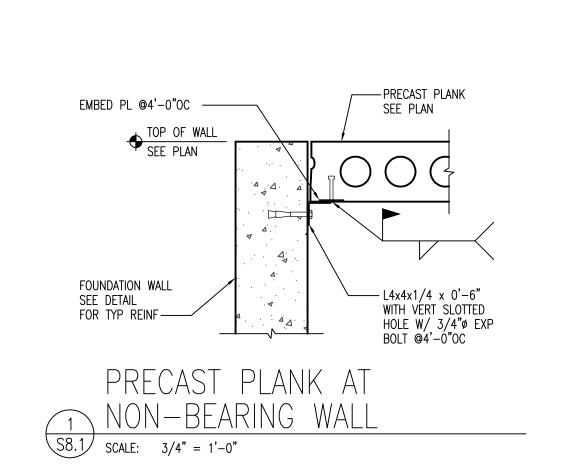
10.21.2013 - 95% CD's

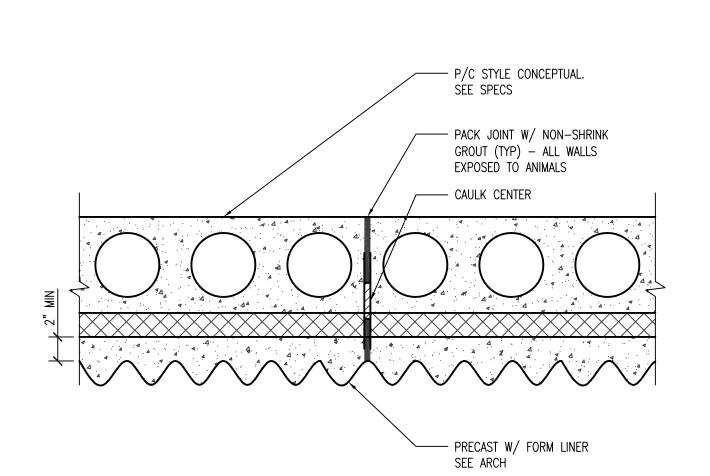
11.13.2013 - Bid Documents

WDM No. drawn: MP2
13046 checked: MP2

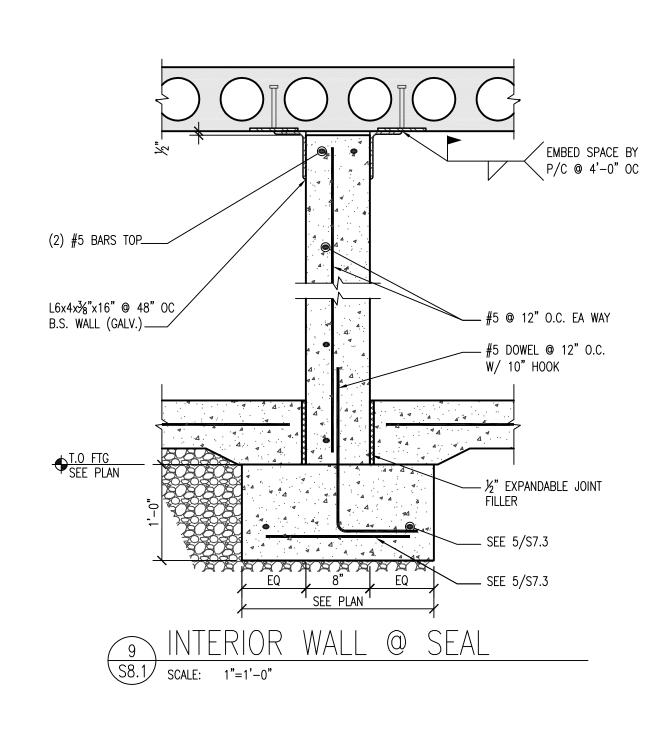
FOUNDATION DETAILS

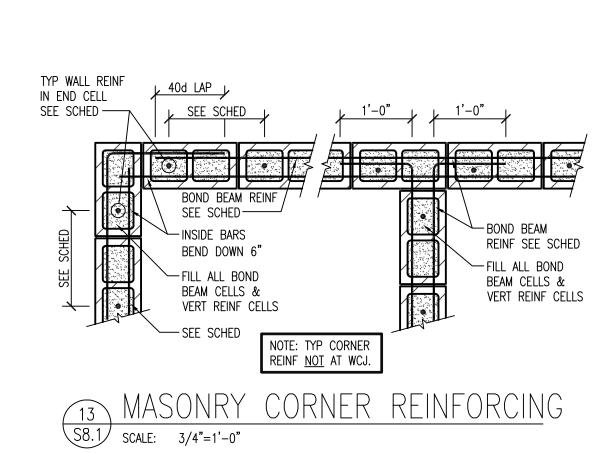
S7.6

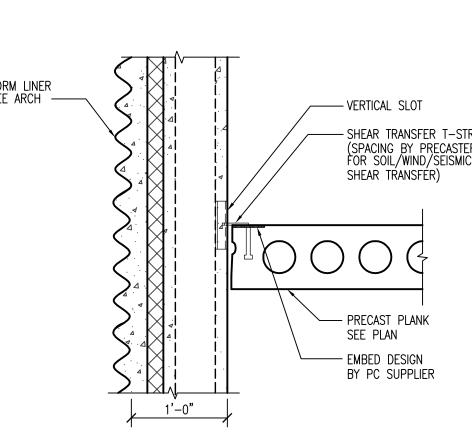




PRECAST JOINT 6 DETAIL @ ANIMAL EXPOSURE
S8.1 SCALE: 1 1/2"=1'-0"

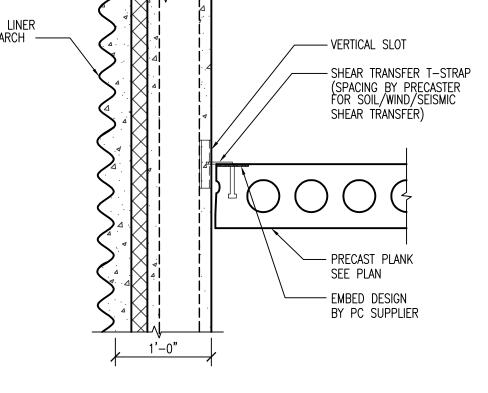


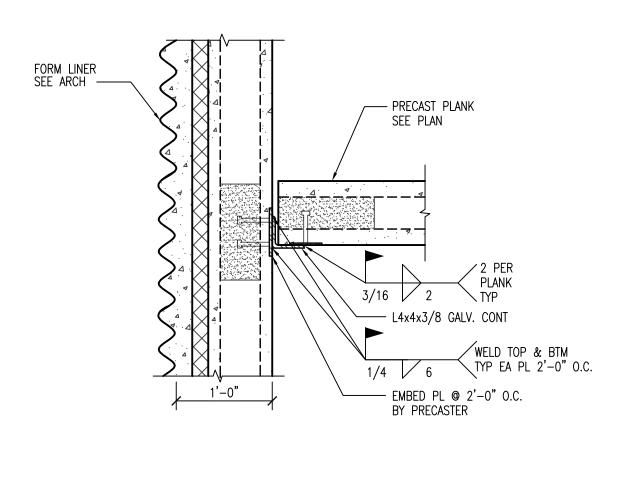




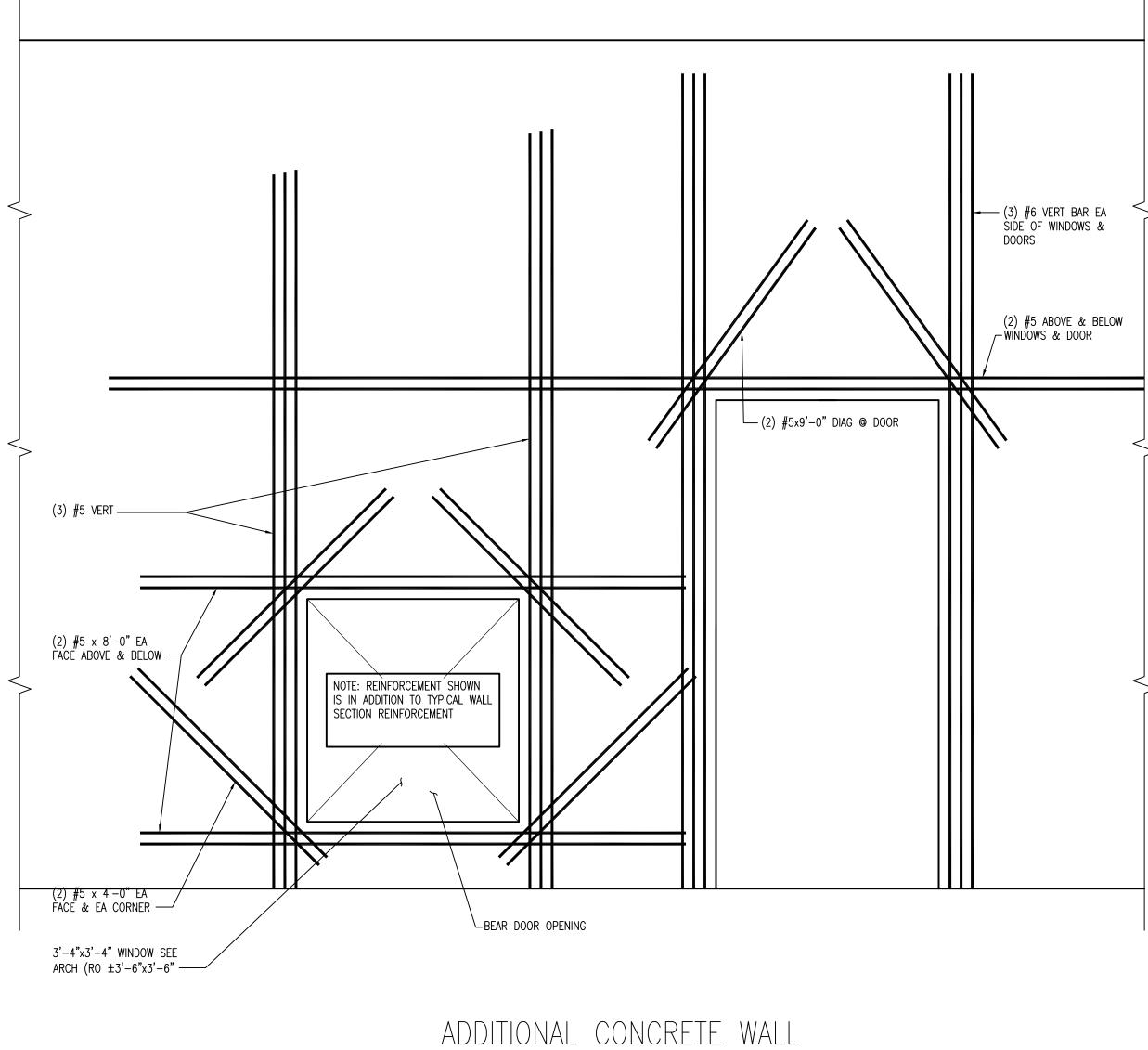
PRECAST DETAIL

S8.1 SCALE: 1" = 1'-0"

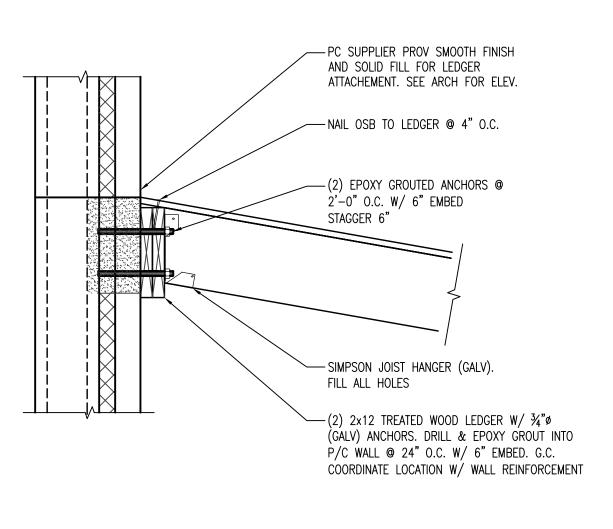




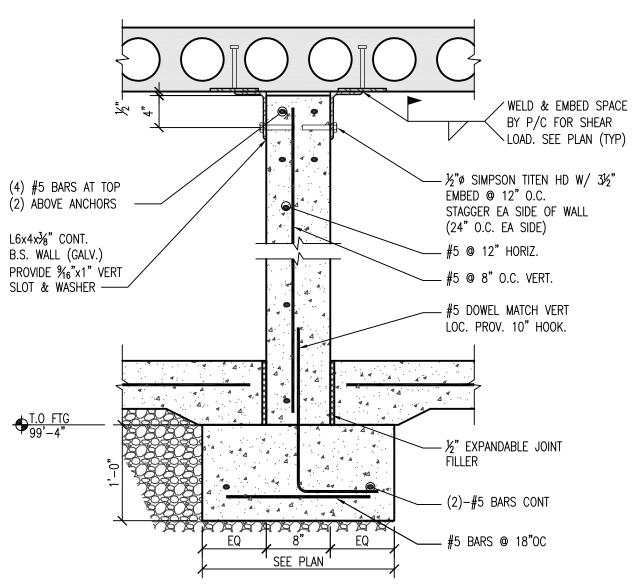
3 PRECAST DETAIL
S8.1 SCALE: 1" = 1'-0"



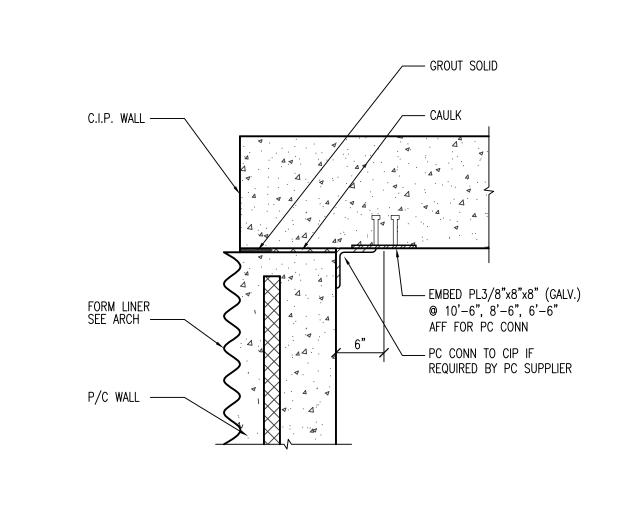




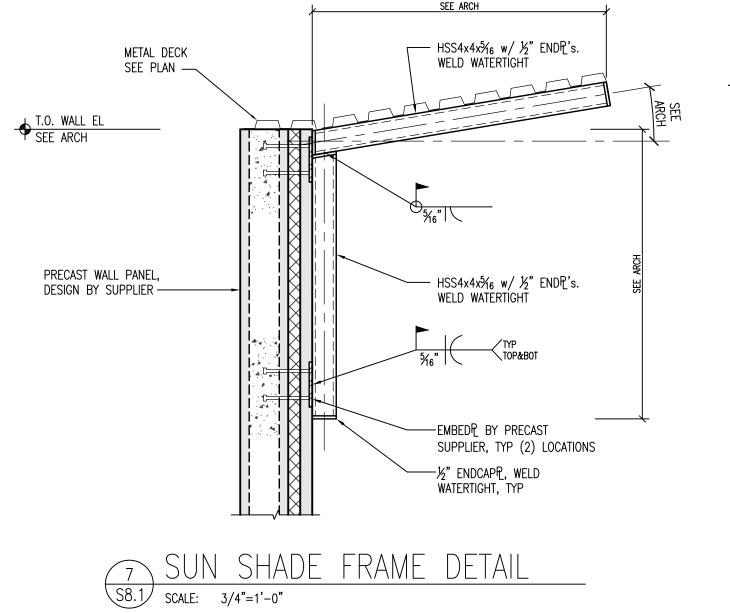


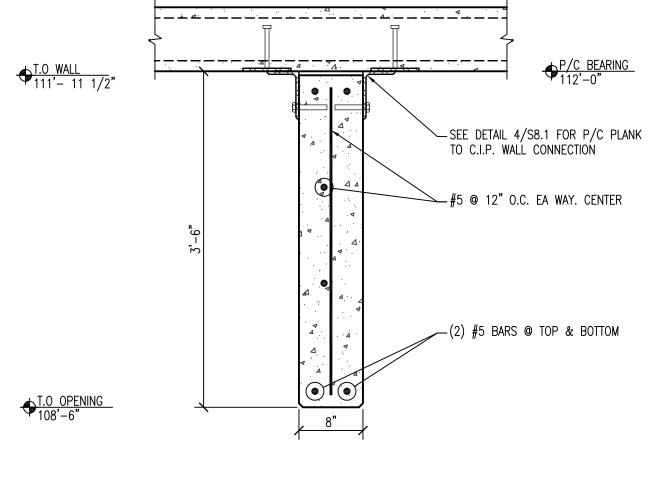




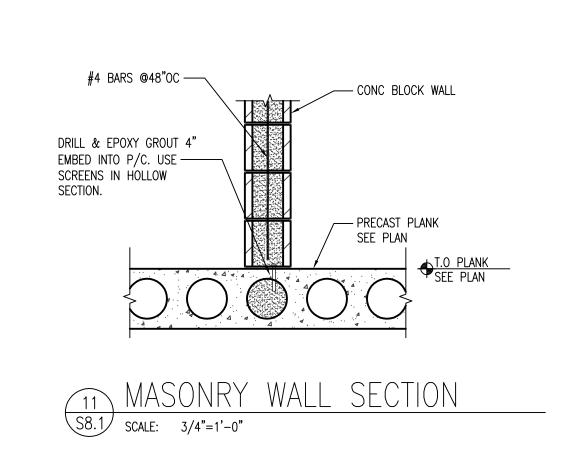


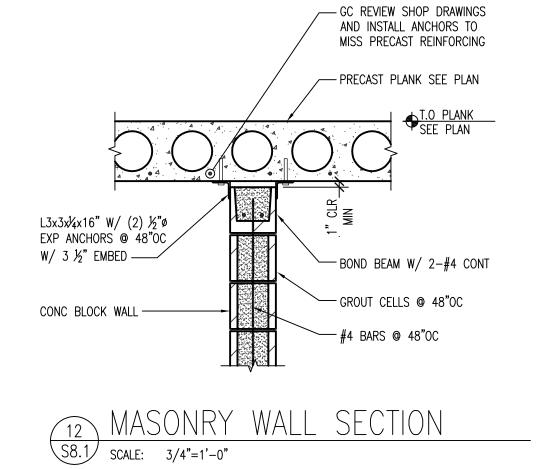
5 CIP TO PC AT BEAR HOLDING
S8.1 SCALE: 1" = 1'-0"

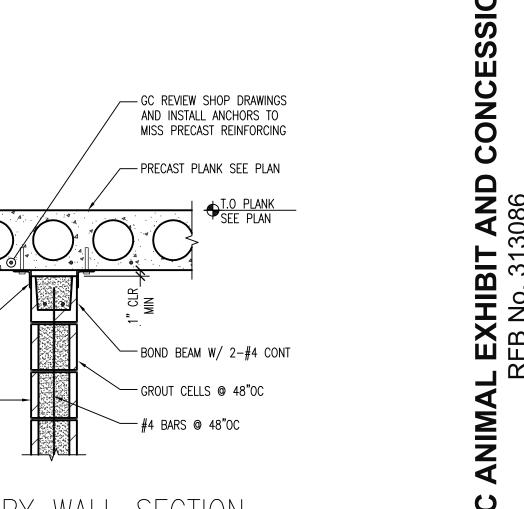












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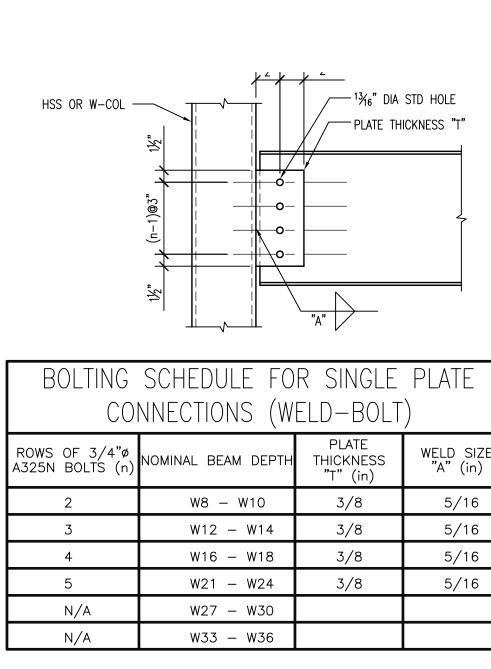
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henry vilas

WDM No. drawn: MP2 **13046** checked: MP2 PRECAST FRAMING DETAILS

S8.1





6 RIBS @ 6" = 36"

TYPICAL FASTENER LAYOUT

SUPPORT CONN PATTERN

36/5

SIDELAP CONN

(PER SPAN)

2-#12

#12 SCREWS | SELF-DRILLING | 1,3

OR WELD | SCREWS

MIN SECTION PROPERTIES DESIGN # OF SPANS

ALL DECK PROPERTIES SHOWN SHALL BE WITHIN ± 3%
 SEE ARCHITECTURAL PLAN FOR PITCH CHANGES & FINISH.
 PROVIDE BUILDEX SCREW PER BUILDEX REPORT NO. 845 FOR SELF-DRILLING SCREWS.
 ENDLAPS SHALL OCCUR AT SUPPORT POINTS.

10 AND DECK ATTACHMENT

METAL DECK SCHEDULE

Sx pos Sx neg

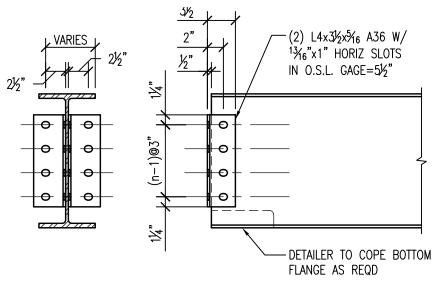
1.5B | 20 | 0.235 IN ³ | 0.247 IN ³

TYPE B-36, F-36

DECK TYPE (DEPTH)

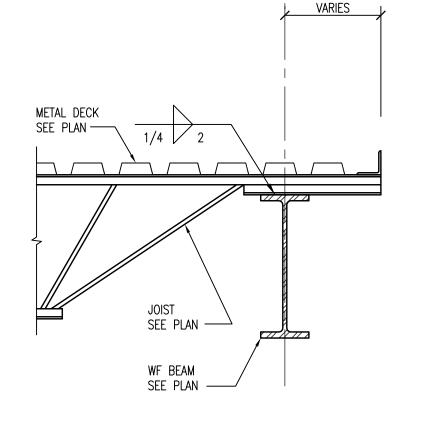
S9.1 SCALE: 1"=1'-0"

ROOF DECK

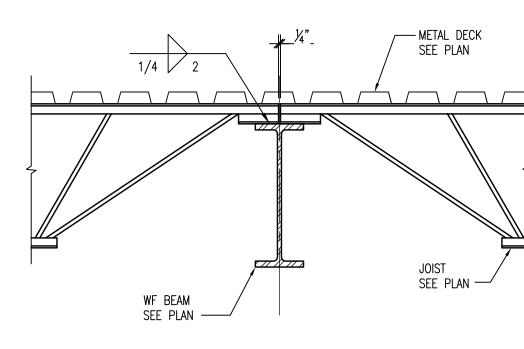


DOUBLE ANGLE CONNECTION (BOLT-BOLT)				
ROWS OF 3/4"ø A325N BOLTS (n)	NOMINAL BEAM DEPTH			
2	W8 - W10			
3	W12 - W14			
4	W16 - W18			
5	W21 - W24			
6	W27 - W30			
7	W33 - W36			

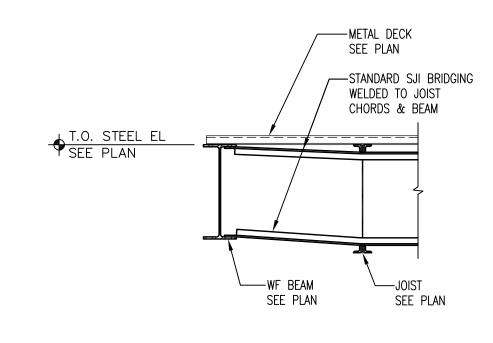
BEAM TO BEAM 2 DOUBLE ANGLE CONNECTION
S9.1 SCALE: NTS



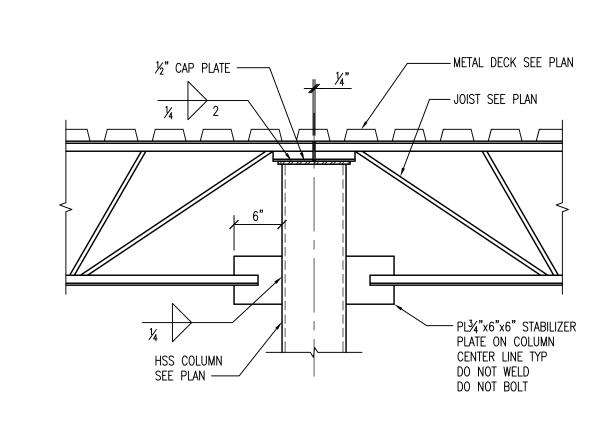
STEEL SECTION
S9.1 SCALE: 1"=1'-0"



STEEL SECTION
S9.1 SCALE: 1"=1'-0"

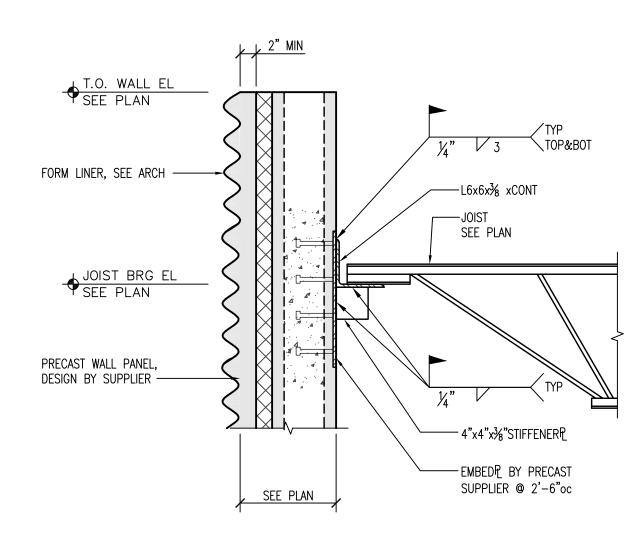


5 BRIDGING ANCHORAGE DETAIL
S9.1 SCALE: 3/4"=1'-0"

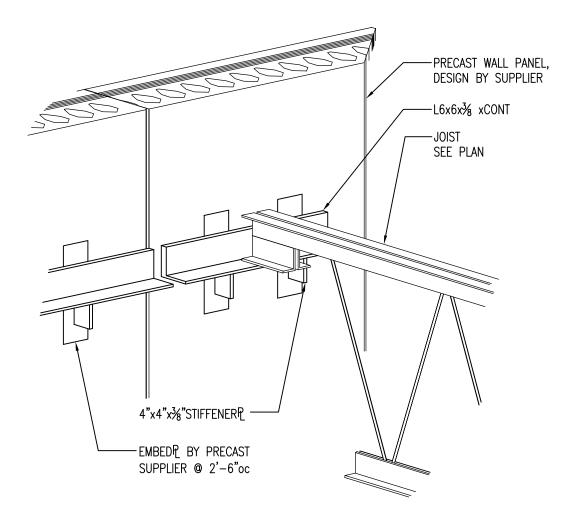


STEEL SECTION S9.1 SCALE: 1"=1'-0"

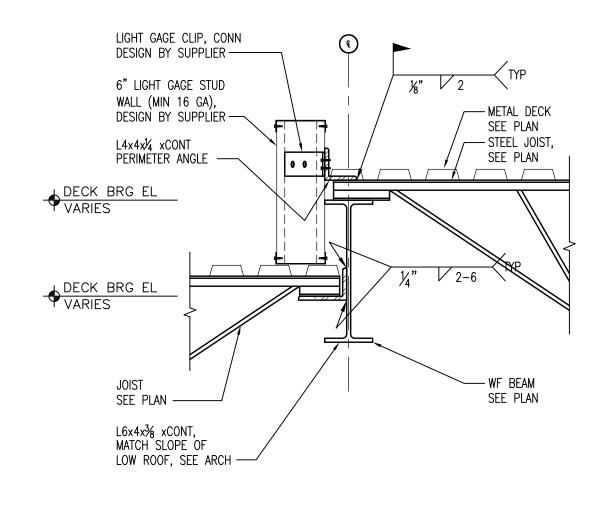
JOIST COLUMN CONNECTION



7 JOIST BRG ON PRECAST WALL
S9.1 SCALE: 1"=1'-0"

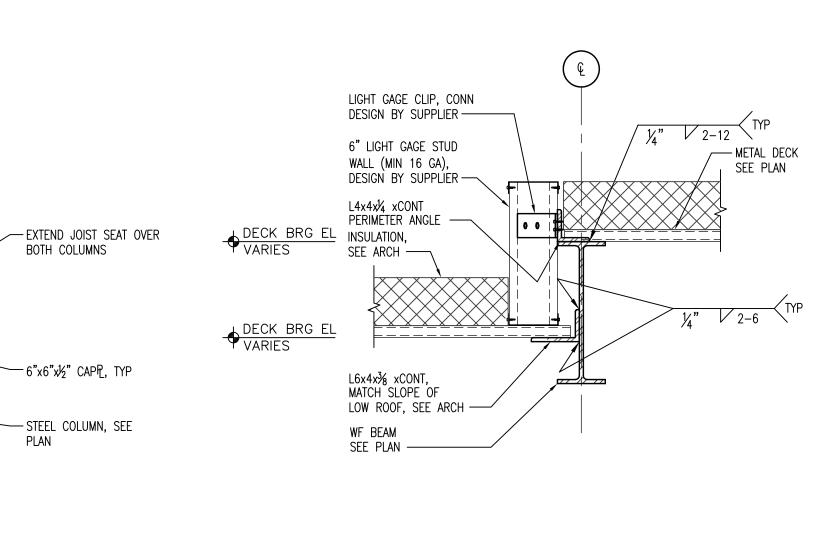


8 JOIST BRG ON PRECAST WALL
S9.1 SCALE: 1"=1'-0"

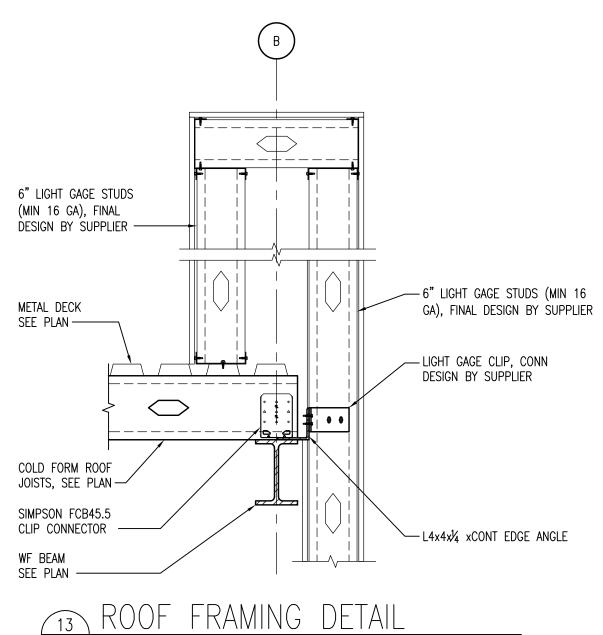


9 STEEL SECTION S9.1 SCALE: 1"=1'-0"

METAL DECK SEE PLAN ---



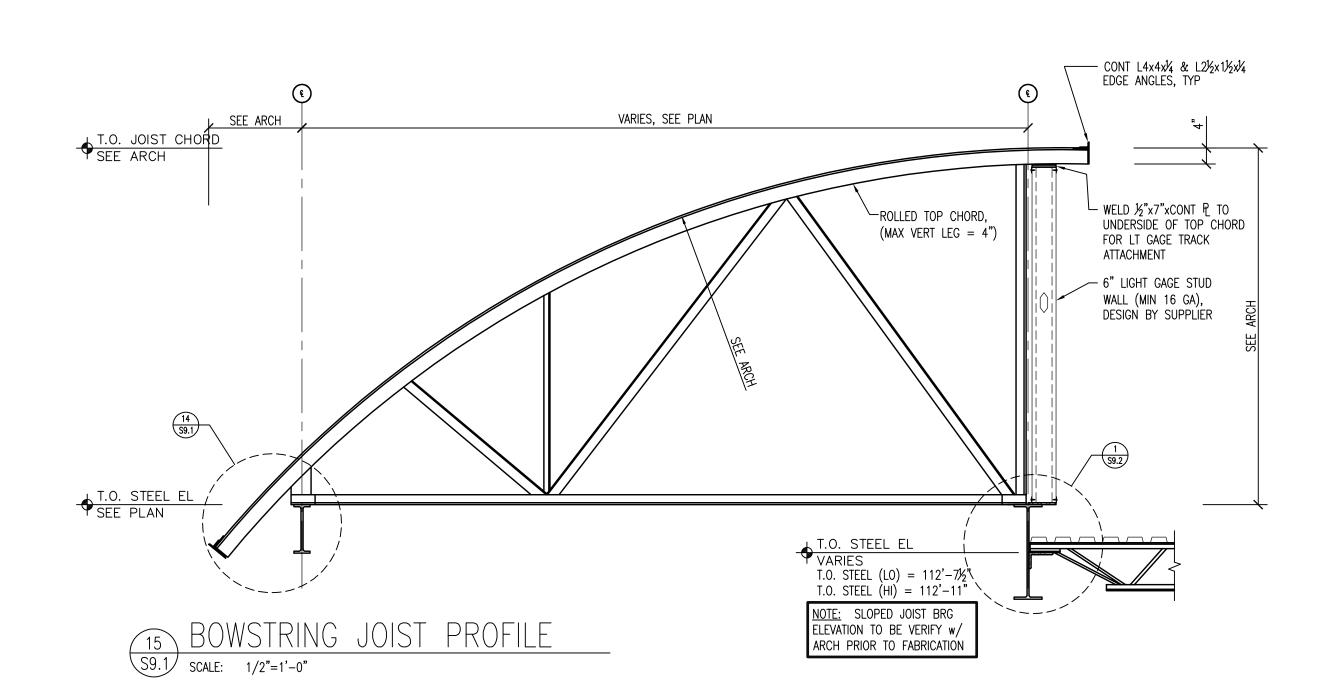




\$9.1 SCALE: 1"=1'-0"

T.O. STEEL EL — WF BEAM SEE PLAN L21/2x11/2x1/4 xCONT — L4x4x1/4 xCONT -

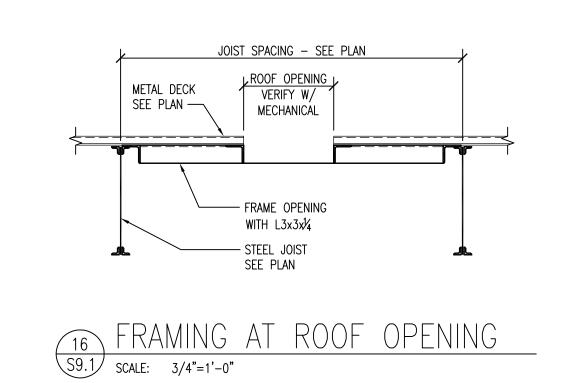
BOWSTRING JOIST TAIL DETAIL \$9.1 SCALE: 3/4"=1'-0"

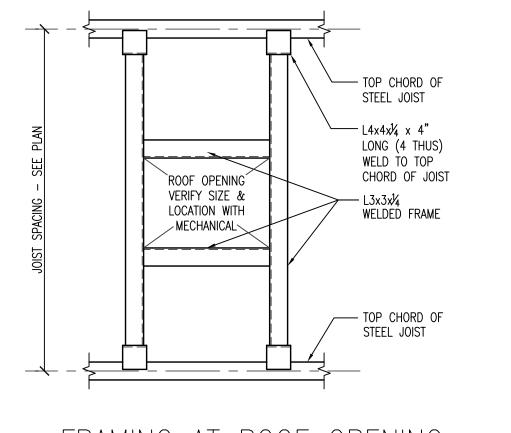


T.O. STEEL EL SEE PLAN

STEEL BEAM, SEE PLAN —

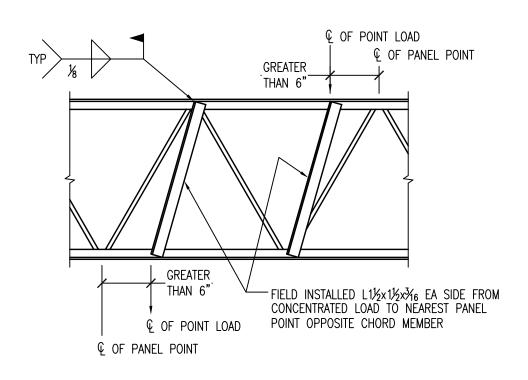
\$9.1 SCALE: 3/4"=1'-0"





FRAMING AT ROOF OPENING

S9.1 SCALE: 3/4"=1'-0"



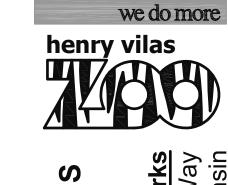
TYP JOIST REINFORCEMENT AT CONCENTRATED LOADS

S9.1 SCALE: NTS







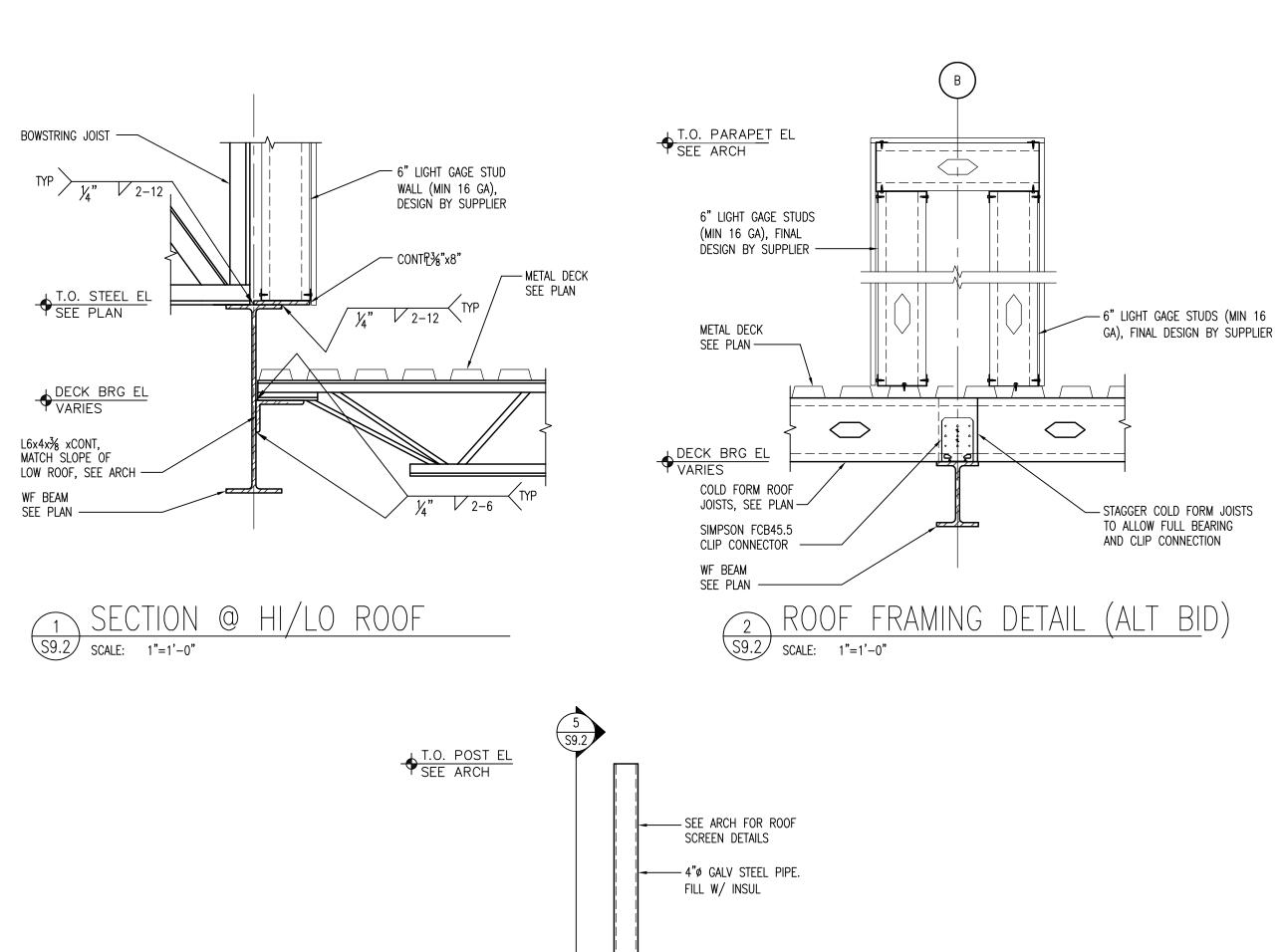


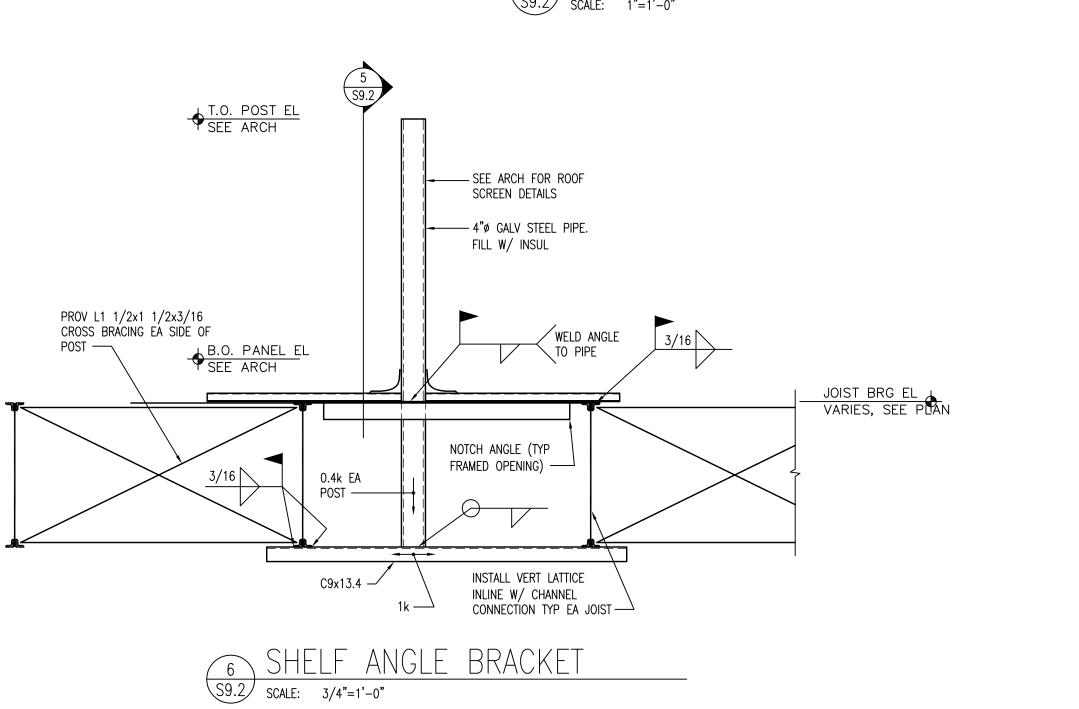
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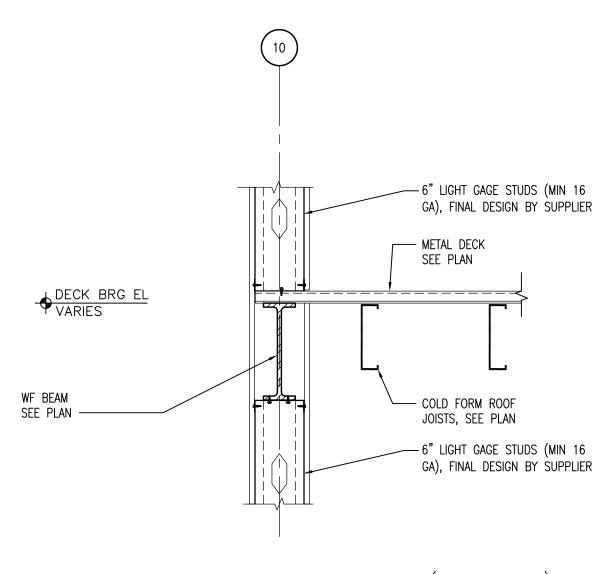
11.13.2013 - Bid Documents

WDM No. drawn: MP2 STEEL FRAMING DETAILS

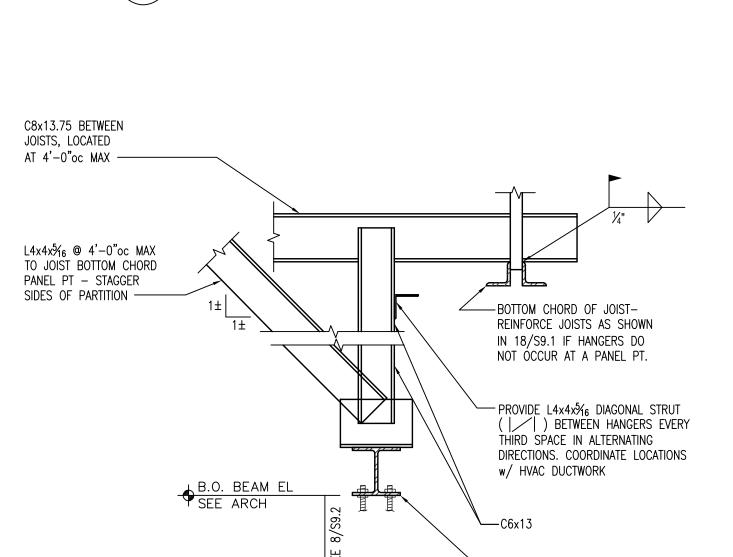
S9.1





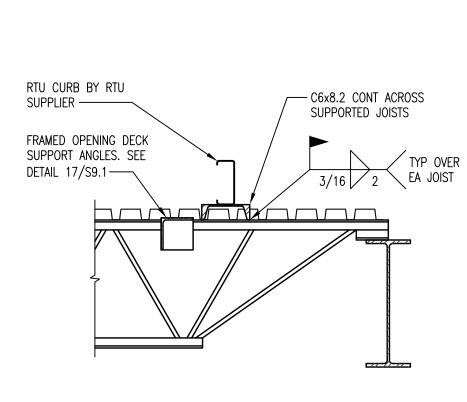




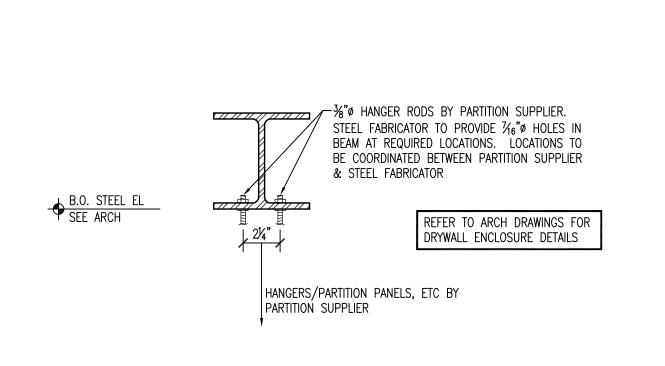


STEEL BEAM, SEE PLAN

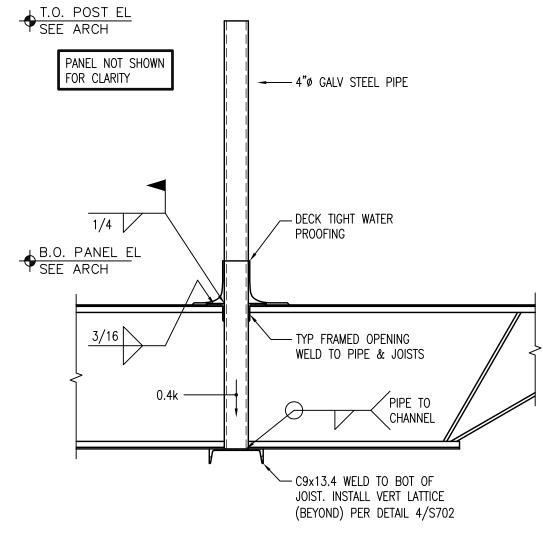
PARTITION WALL SUPPORT
S9.2 SCALE: 3/4"=1'-0"



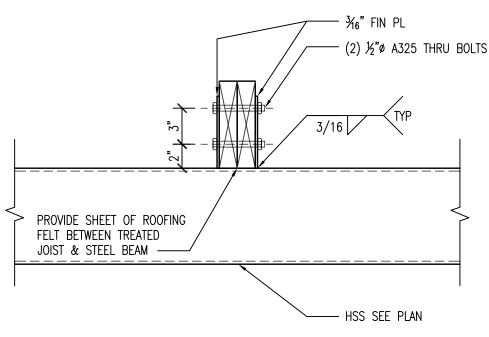
4 RTU SUPPORT \$9.2 SCALE: 1"=1'-0"



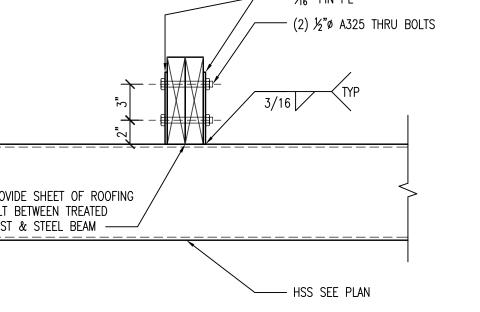
8 PARTITION SUPPORT BEAM S9.2 scale: 1 1/2"=1'-0"



5 SHELF ANGLE BRACKET
S9.2 SCALE: 3/4"=1'-0"



9 ROOF JOIST TO HSS BEAM S9.2 SCALE: 1 1/2"=1'-0"





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 $(mp)^2$

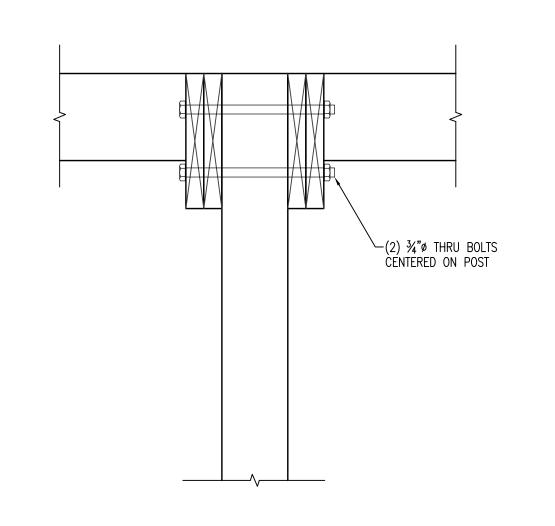
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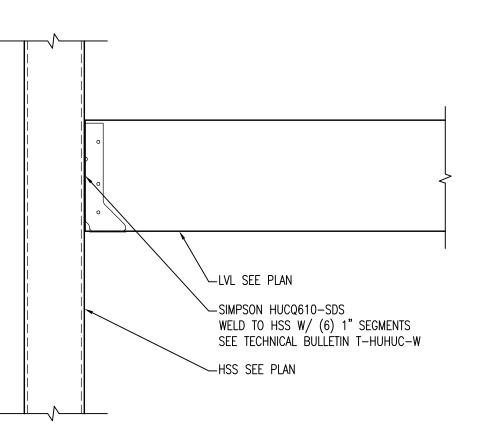
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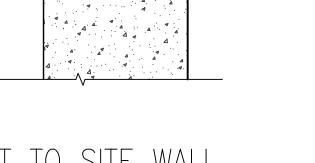
WDM No. drawn: MP2

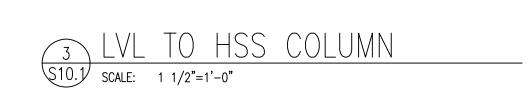
STEEL FRAMING DETAILS

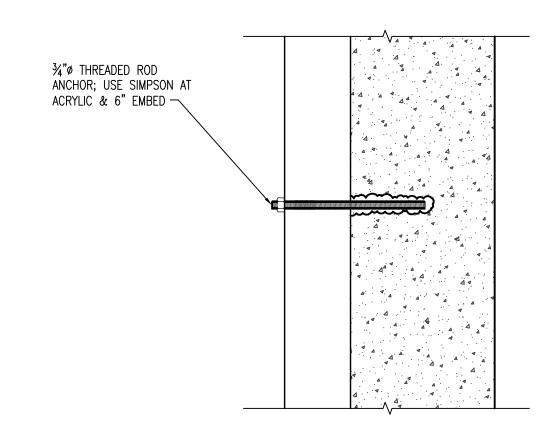
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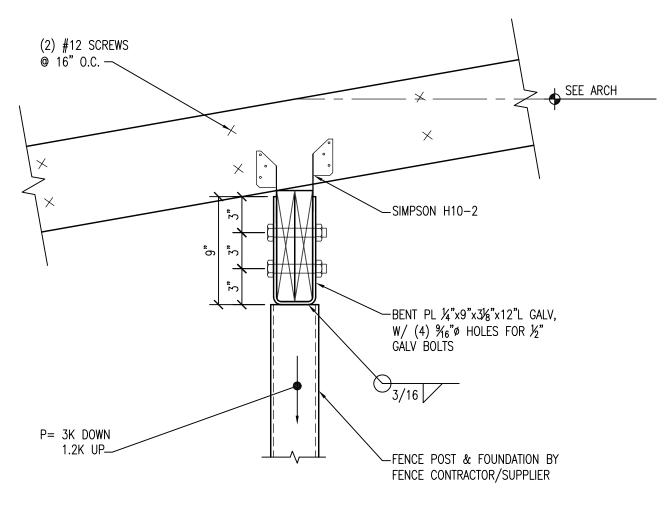


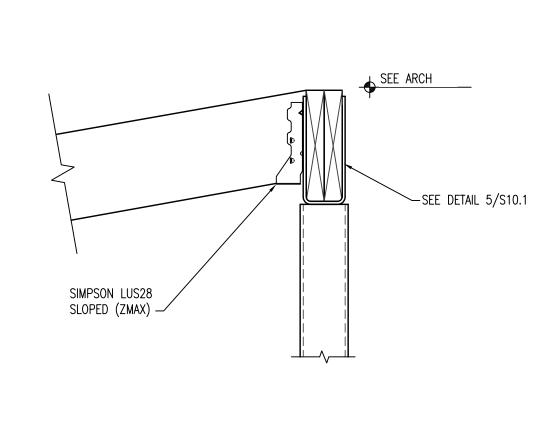






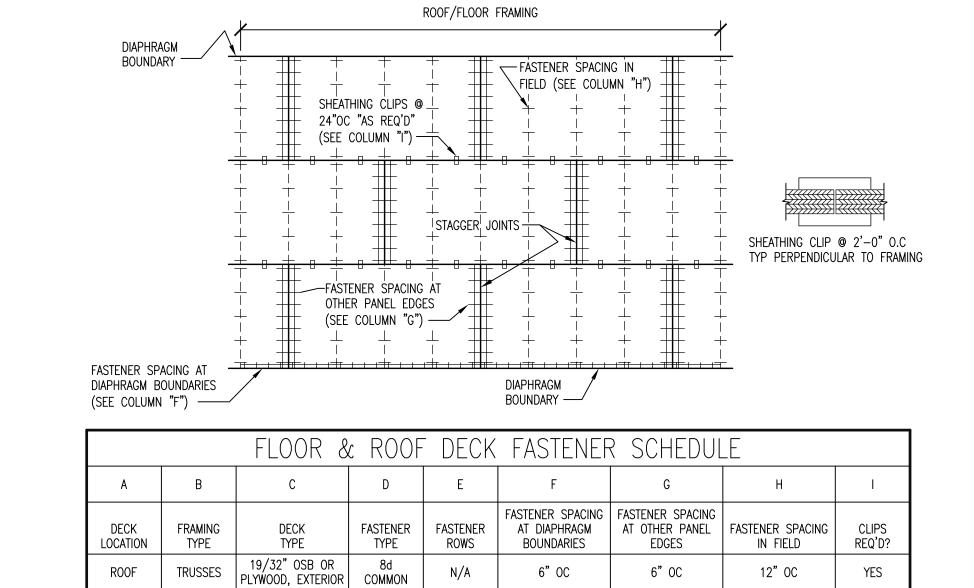










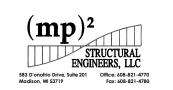


SEE ARCH FOR ROOFING REQUIREMENTS.
 GLUE AND FASTEN FLOOR SHEATHING TO TRUSSES.

ROOF/FLOOR SHEATHING LAYOUT AND

NAILING SCHEDULE AT UNBLOCKED DIAPHRAGMS

S10.1 SCALE: 1/4"=1'-0"





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WDM No. drawn: MP2

13046 checked: MP2

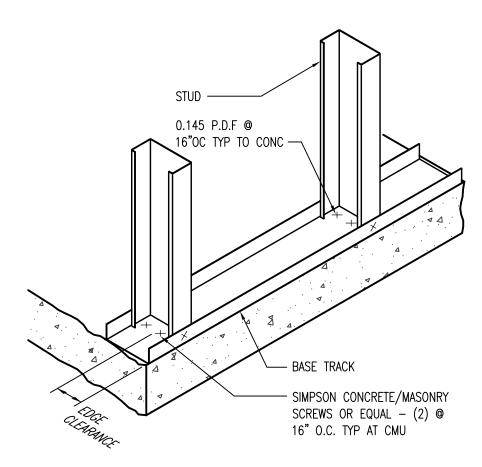
13046 checked: MP2
WOOD FRAMING DETAILS

S10.1

ight 2013 WDM Architects P.A

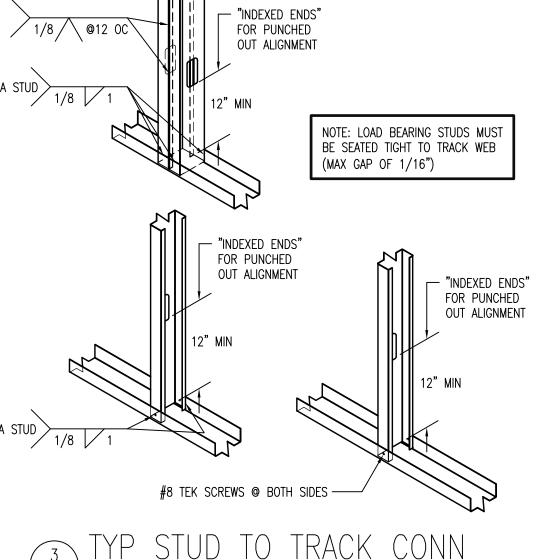
STEEL	STUD SCHE	EDULE				
550 S 162-43 MEMBER THICKNESS (1/1000 in) FLANGE WIDTH (in) S=STUD, T=TRACK WEB DEPTH (in)						
MEMBER THICKNESS (mils)	DESIGN THICKNESS (in)	REFERENCE ONLY GAGE No.				
18	0.0188	25				
27	0.0283	22				
30	0.0312	20 - DRYWALL				
33	0.0346	20 – STRUCTURAL				
43	0.0451	18				
54	0.0566	16				
68	0.0713	14				
97	0.1017	12				

STEEL STUD SCHEDULE
S11.1 SCALE: NTS

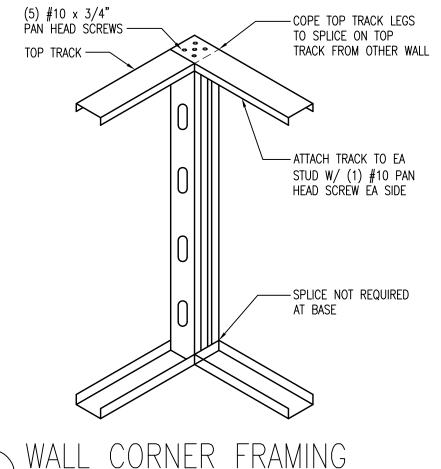


BOTTOM TRACK ANCHORAGE

\$11.1 scale: 1"=1'-0"

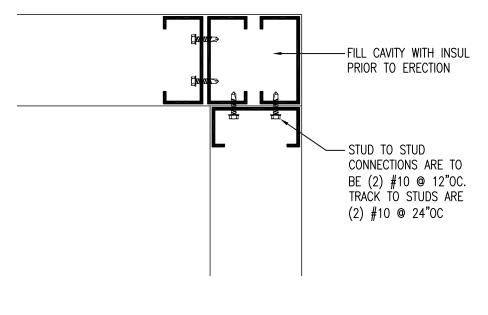


TYP STUD TO TRACK CONN
S11.1 SCALE: 1"=1'-0"



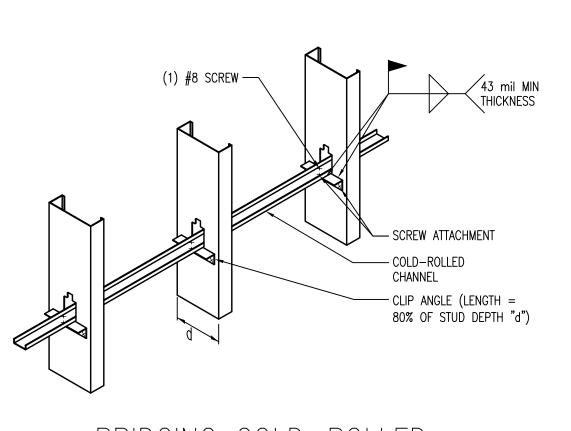
WALL CORNER FRAMING

\$11.1 SCALE: NTS



TYPICAL CORNER FRAMING

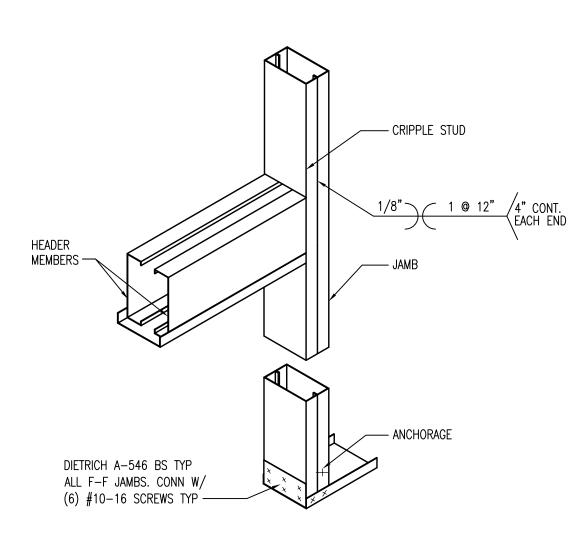
S11.1 SCALE: NTS



BRIDGING COLD—ROLLED

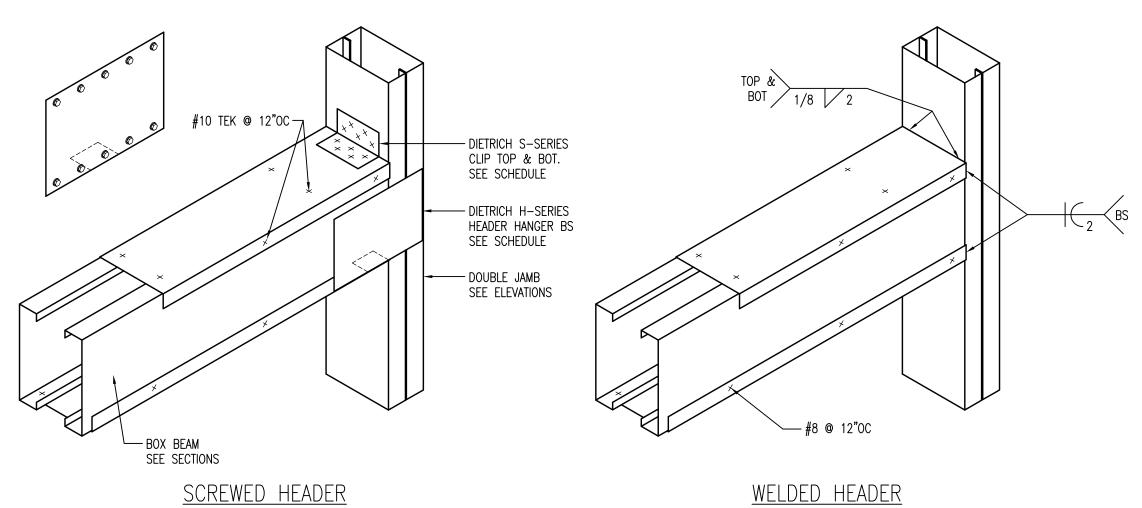
6 CHANNEL WITH CLIP ANGLE

511.1 SCALE: 1"=1'-0"

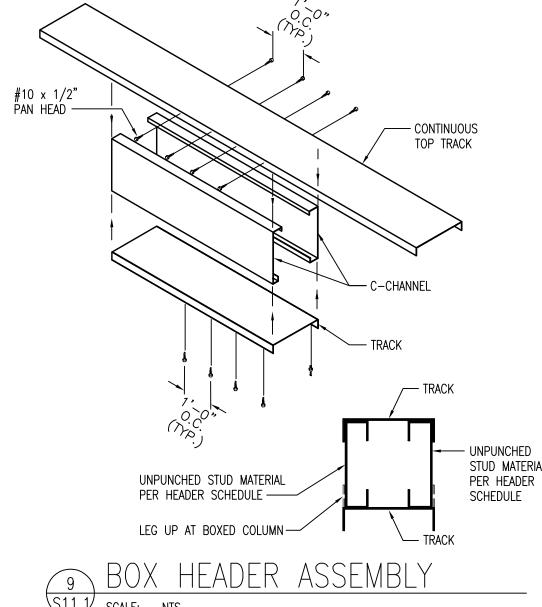


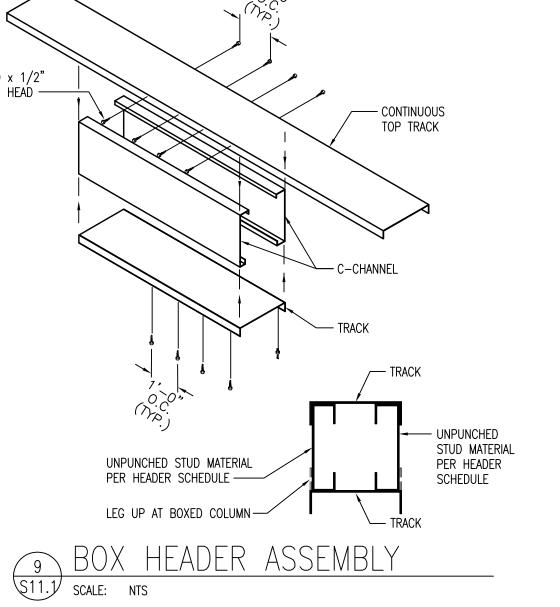
FACE TO FACE JAMB

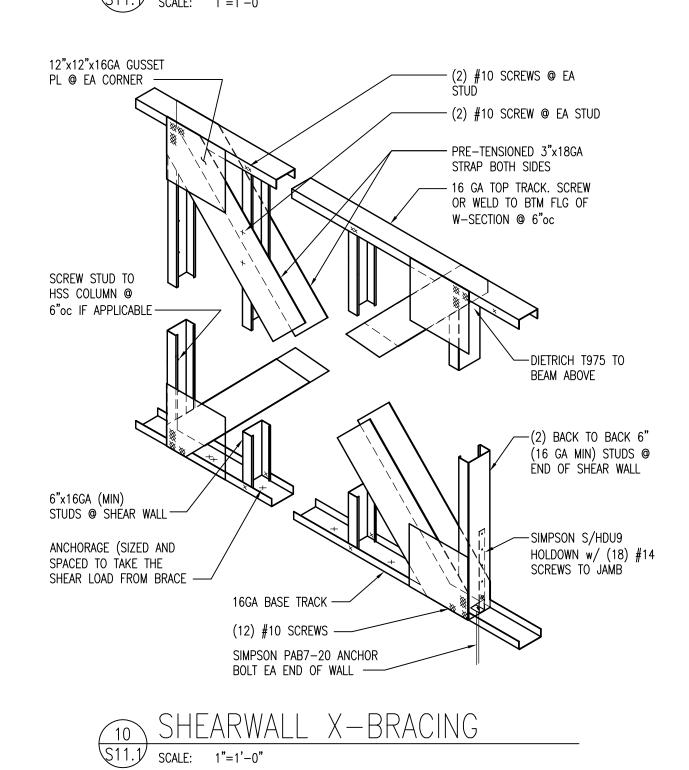
S11.1 SCALE: 1"=1'-0"

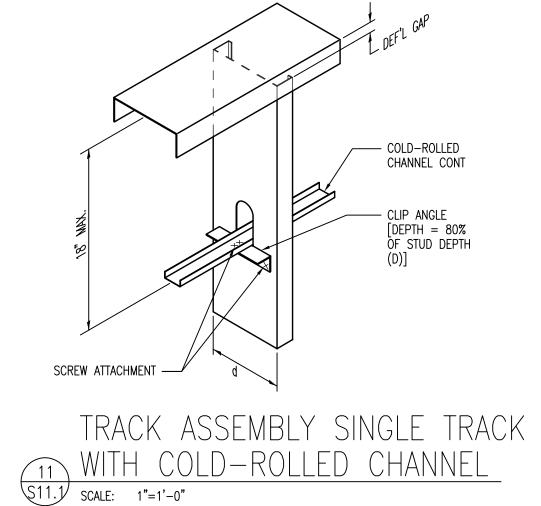


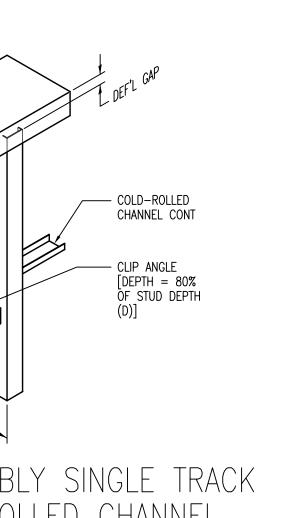
WELDED HEADER 8 BOXED HEADER CONNECTION
S11.1 SCALE: 1"=1'-0"

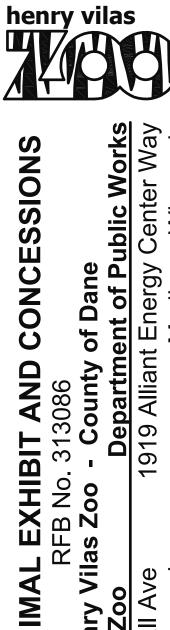












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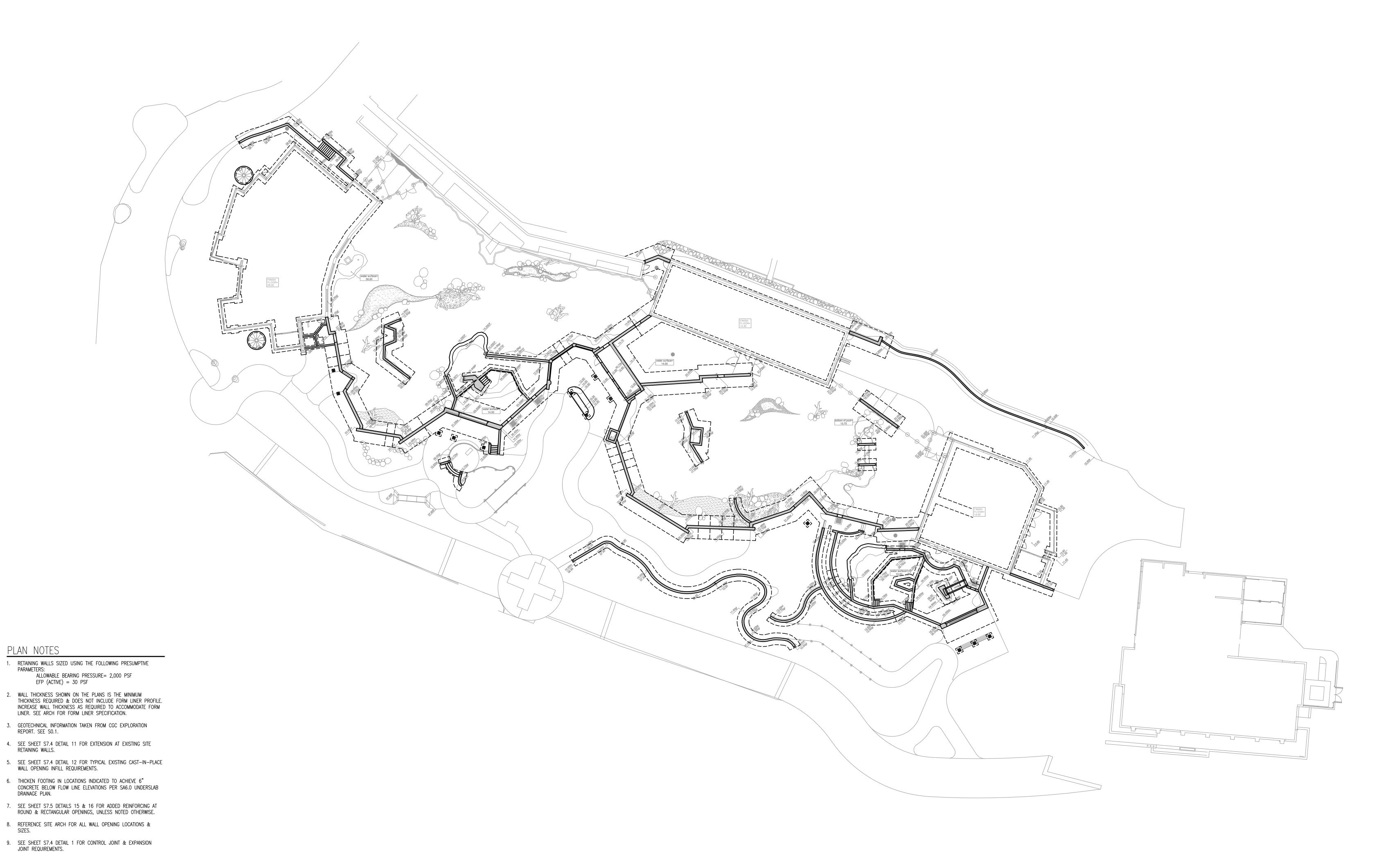
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08.23.2013 - Design Development





OVERALL RETAINING WALL SITE PLAN SR1.0 SCALE: 1"=20'-0"

STRUCTURAL ENGINEERS, LLC
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ARCHITECTS

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henry vilas

313086
- County of Dane
Department of Public Works
919 Alliant Energy Center Way

RFB No. 31308
Henry Vilas Zoo - Cou

PRINTS ISSUED

07.26.2013 - Schematic Design

08.23.2013 - Design Development

09.23.2013 - 65% CD's

10.07.2013 - Pricing Set

10.21.2013 - 95% CD's 11.13.2013 - Bid Documents

MDM No. drawn: MP2

13046 checked: MP2

OVERALL RETAINING WALL

SITE PLAN

SR1.0

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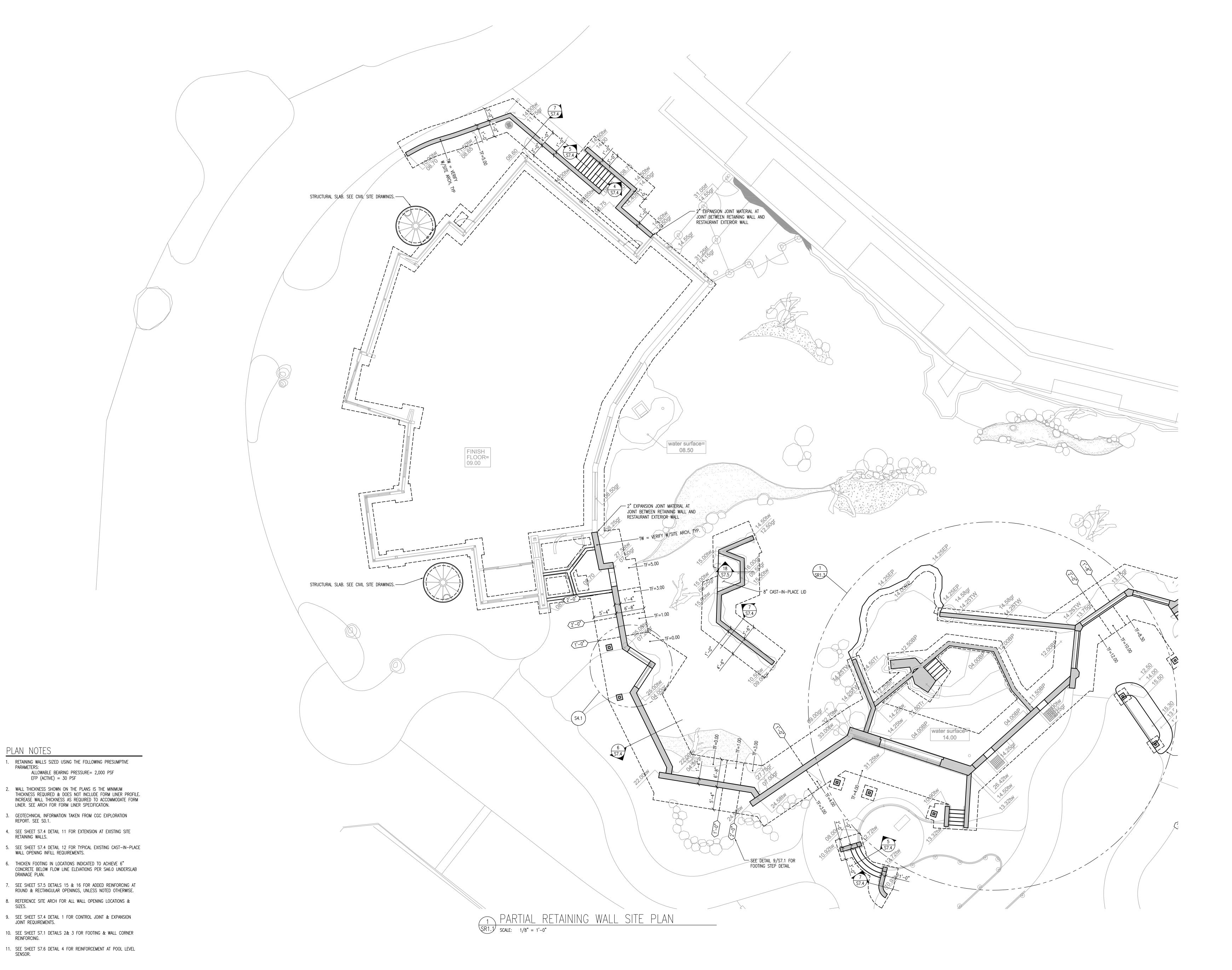
SR1.2

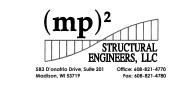
10. SEE SHEET S7.1 DETAILS 2& 3 FOR FOOTING & WALL CORNER

11. SEE SHEET S7.6 DETAIL 4 FOR REINFORCEMENT AT POOL LEVEL SENSOR.

REINFORCING.

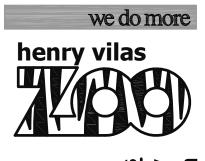
KEY PLAN







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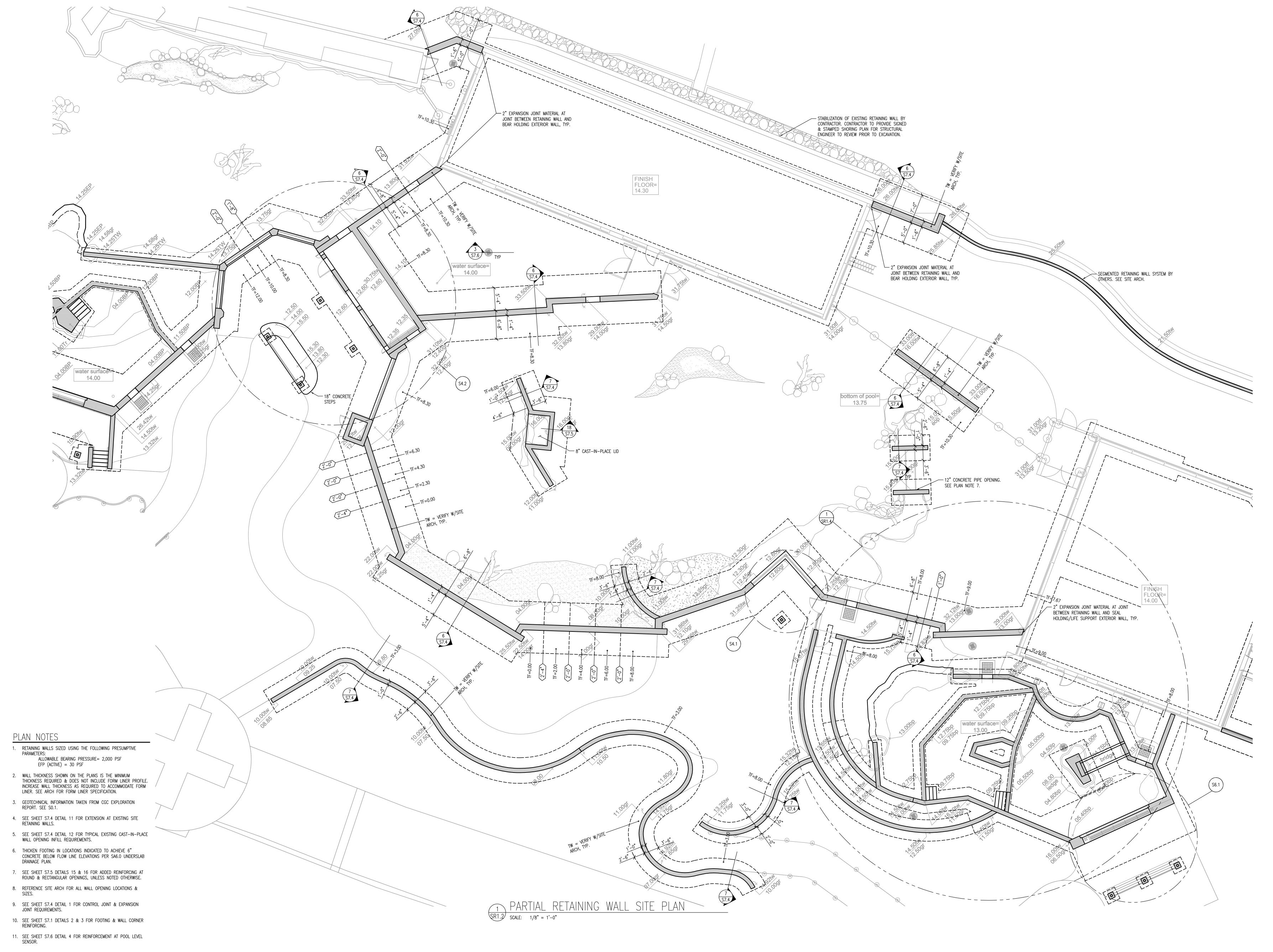
08.23.2013 - Design Developi 09.23.2013 - 65% CD's 10.07.2013 - Pricing Set 10.21.2013 - 95% CD's 11.13.2013 - Bid Documents

WDM No. drawn: MP2

13046 checked: MP2

RETAINING WALL
PARTIAL SITE PLAN

SR1.1



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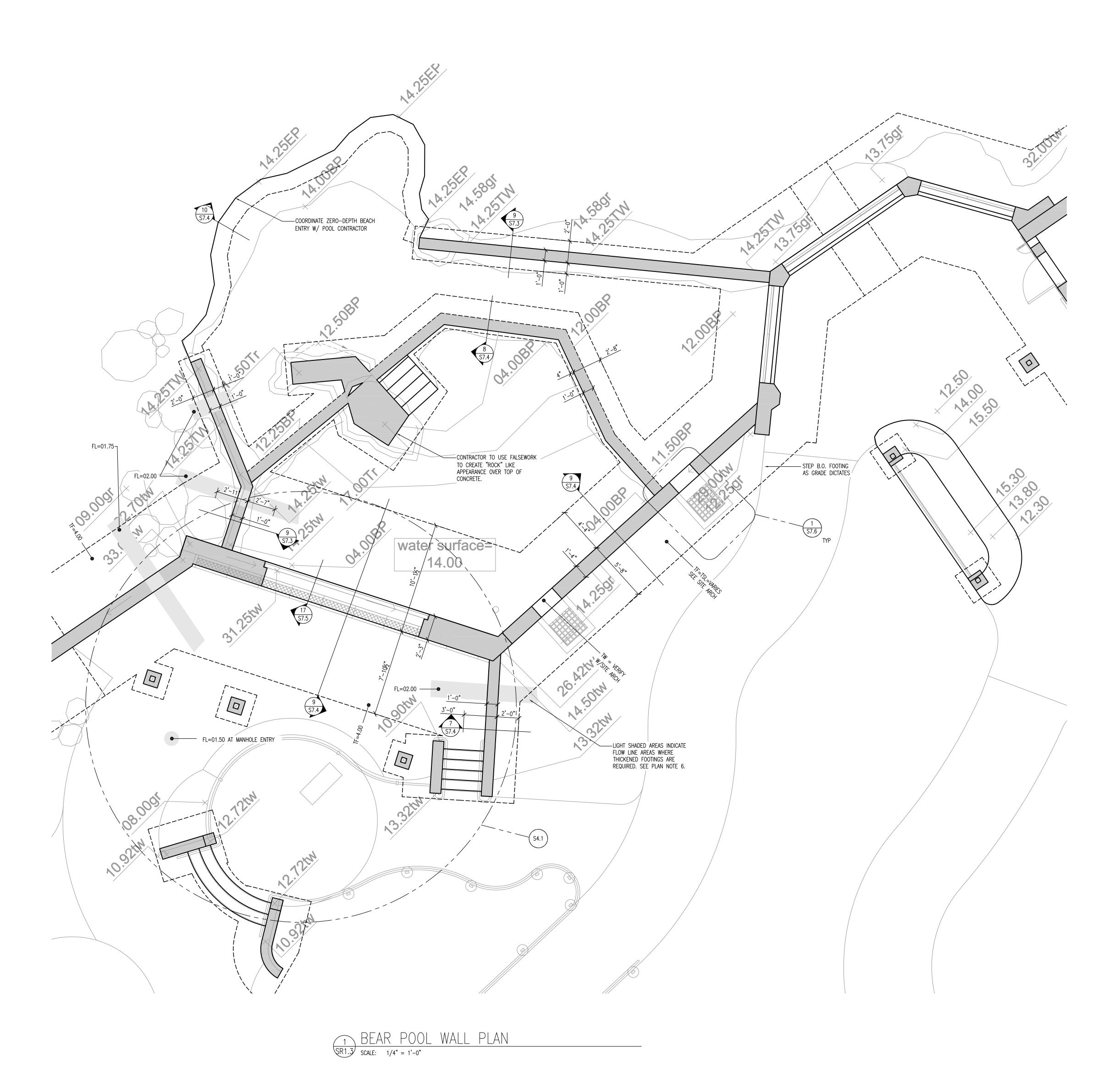
PRINTS ISSUED 07.26.2013 - Schematic Design 08.23.2013 - Design Development 09.23.2013 - 65% CD's 10.07.2013 - Pricing Set 10.21.2013 - 95% CD's

WDM No. drawn: MP2

11.13.2013 - Bid Documents

RETAINING WALL PARTIAL SITE PLAN

SR1.2



PARAMETERS:

1. RETAINING WALLS SIZED USING THE FOLLOWING PRESUMPTIVE

ALLOWABLE BEARING PRESSURE= 2,000 PSF EFP (ACTIVE) = 30 PSF

2. WALL THICKNESS SHOWN ON THE PLANS IS THE MINIMUM THICKNESS REQUIRED & DOES NOT INCLUDE FORM LINER PROFILE. INCREASE WALL THICKNESS AS REQUIRED TO ACCOMMODATE FORM LINER. SEE ARCH FOR FORM LINER SPECIFICATION.

3. GEOTECHNICAL INFORMATION TAKEN FROM CGC EXPLORATION REPORT. SEE SO.1.

4. SEE SHEET S7.4 DETAIL 11 FOR EXTENSION AT EXISTING SITE RETAINING WALLS.

6. THICKEN FOOTING IN LOCATIONS INDICATED TO ACHIEVE 6"

WALL OPENING INFILL REQUIREMENTS.

DRAINAGE PLAN.

JOINT REQUIREMENTS.

5. SEE SHEET S7.4 DETAIL 12 FOR TYPICAL EXISTING CAST-IN-PLACE

CONCRETE BELOW FLOW LINE ELEVATIONS PER SA6.0 UNDERSLAB

7. SEE SHEET S7.5 DETAILS 15 & 16 FOR ADDED REINFORCING AT

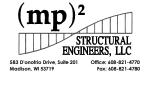
8. REFERENCE SITE ARCH FOR ALL WALL OPENING LOCATIONS &

9. SEE SHEET S7.4 DETAIL 1 FOR CONTROL JOINT & EXPANSION

10. SEE SHEET S7.1 DETAILS 2 & 3 FOR FOOTING & WALL CORNER

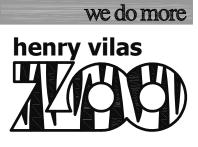
11. SEE SHEET S7.6 DETAIL 4 FOR REINFORCEMENT AT POOL LEVEL

ROUND & RECTANGULAR OPENINGS, UNLESS NOTED OTHERWISE.





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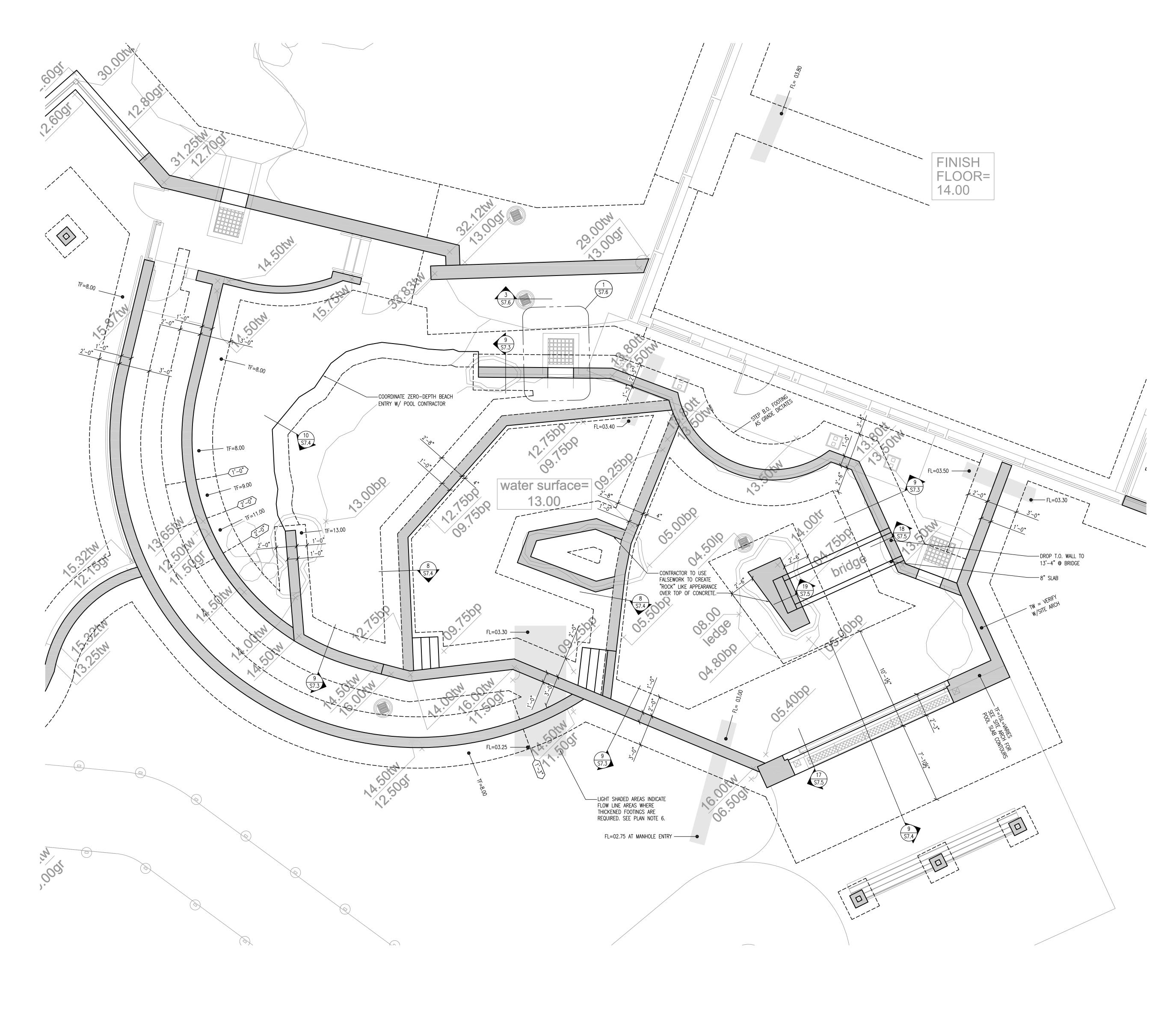
10.21.2013 - 95% CD's 11.13.2013 - Bid Documents

MDM No. drawn: MP2

13046 checked: MP2

BEAR POOL WALL PLAN

SR1.3





PLAN NOTES

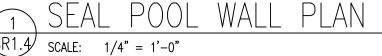
1. RETAINING WALLS SIZED USING THE FOLLOWING PRESUMPTIVE PARAMETERS:

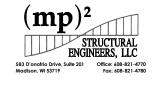
ALLOWABLE BEARING PRESSURE= 2,000 PSF EFP (ACTIVE) = 30 PSF

- 2. WALL THICKNESS SHOWN ON THE PLANS IS THE MINIMUM THICKNESS REQUIRED & DOES NOT INCLUDE FORM LINER PROFILE. INCREASE WALL THICKNESS AS REQUIRED TO ACCOMMODATE FORM LINER. SEE ARCH FOR FORM LINER SPECIFICATION.
- 3. GEOTECHNICAL INFORMATION TAKEN FROM CGC EXPLORATION REPORT. SEE SO.1.
- 4. SEE SHEET S7.4 DETAIL 11 FOR EXTENSION AT EXISTING SITE RETAINING WALLS.
- 5. SEE SHEET S7.4 DETAIL 12 FOR TYPICAL EXISTING CAST—IN—PLACE WALL OPENING INFILL REQUIREMENTS.
- 6. THICKEN FOOTING IN LOCATIONS INDICATED TO ACHIEVE 6" CONCRETE BELOW FLOW LINE ELEVATIONS PER SA6.0 UNDERSLAB DRAINAGE PLAN.
- 7. SEE SHEET S7.5 DETAILS 15 & 16 FOR ADDED REINFORCING AT ROUND & RECTANGULAR OPENINGS, UNLESS NOTED OTHERWISE.
- 8. REFERENCE SITE ARCH FOR ALL WALL OPENING LOCATIONS & SIZES.
- SEE SHEET S7.4 DETAIL 1 FOR CONTROL JOINT & EXPANSION JOINT REQUIREMENTS.

10. SEE SHEET S7.1 DETAILS 2 & 3 FOR FOOTING & WALL CORNER

11. SEE SHEET S7.6 DETAIL 4 FOR REINFORCEMENT AT POOL LEVEL







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10.21.2013 - 95% CD's

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WDM No. drawn: MP2

13046 checked: MP2

SEAL POOL WALL PLAN

SR1.4