

EXCAVATION REQUIRED TO REACH SUITABLE BEARING MATERIAL

VERTICAL SETTLEMENT OF SURROUNDING SOIL AND/OR PROPERTY WHICH

6. THE CONTRACTOR SHALL PROVIDE CONTROL OF SURFACE AND SUBSURFACE WATER PROMPTLY TO INSURE THAT ALL FOUNDATION WORK IS PERFORMED

8. THE CONTRACTOR SHALL PROTECT IN-PLACE FOUNDATIONS AND SLABS-ON-GRADE FROM FROST PENETRATION UNTIL THE PROJECT IS COMPLETE. 9. FOUNDATION WALLS SHALL BE BRACED DURING BACKFILLING AND COMPACTION OPERATIONS. BRACING SHALL BE LEFT IN PLACE UNTI

PERMANENT STRUCTURAL SUPPORT SYSTEM IS INSTALLED AND APPROVED 10. WHERE FOUNDATION WALLS HAVE FILL ON BOTH SIDES, BACKFILLING SHALL

5. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS IN ALL EXCAVATIONS AS REQUIRED TO PREVENT HORIZONTAL MOVEMENT OR

7. FOUNDATIONS SHALL NOT BE PLACED ON FROZEN SUBGRADE.

WILL ENDANGER LIVES OR PROPERTY.

IN A DRY CONDITION.

1. PRE-ENGINEERED METAL BUILDING WORK SHALL CONFORM TO THE LATEST **EDITIONS OF THE FOLLOWING:** A) AISC - "SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STEEL FOR BUILDINGS". B) AISC - "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND C) AWS D1.1 - "STRUCTURAL WELDING CODE -STEEL" D) AISC - "STRUCTURAL STEEL DETAILING MANUAL". E) MBMA - "METAL BUILDING SYSTEMS MANUAL". F) DESIGN LOADS AND CODE AS NOTED ON THEIR DRAWINGS. 2. THE PRE-ENGINEERED METAL BUILDING (PEMB) SHALL BE DESIGNED AND FABRICATED BY A MBMA MEMBER MANUFACTURER. 3. THE PEMB MANUFACTURER SHALL PROVIDE STAMPED DRAWINGS AND CALCULATIONS BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE JURISDICTION IN WHICH THE BUILDING IS LOCATED. 4. THE PEMB MANUFACTURER SHALL CONFORM TO THE FOLLOWING A) AISC - "DESIGN GUIDE #3 SERVICEABILITY DESIGN CONSIDERATIONS FOR STEEL BUILDING" UNLESS NOTED OTHERWISE ON THE DRAWINGS. 5. ANCHOR RODS SHALL BE PRESET WITH TEMPLATES. 6. LEVELING PLATES AND BEARING PLATES SHALL BE SET IN A FULL BED OF NON-7. THE PEMB MANUFACTURER SHALL BE RESPONSIBLE FOR ALL CONNECTIONS. STIFFENERS ETC. REQUIRED TO SAFELY ERECT THE BUILDING. THE PEMB MANUFACTURER IS REPONSIBLE FOR ANY REQUIRED HOLES SHOWN PASSING THROUGH THE PEMB STEEL ON THE DRAWINGS. 8. THE PEMB MANUFACTURER SHALL PROVIDE FOUNDATION REACTIONS, COLUMN LOCATIONS AND BASE PLATE SIZES TO THE ENGINEER IN A TIMELY MANNER. CHANGES TO, OR OMMISSIONS OF REACTIONS, ETC, BY THE PEMB MANUFACTURER THAT REQUIRE REDESIGN OF THE FOUNDATIONS WILL REQUIRE ADDITIONAL ENGINEERING FEES. 9. ALL WELDS SHALL USE WELD METAL CONFORMING TO E70XX AND CONFORMING TO AWS WELDING PROCEDURES AND STANDARDS. 10. ALL WELDS SHALL BE MADE BY AWS CERTIFIED WELDERS CERTIFIED IN THE POSITION IN WHICH THE WELD IS TO BE MADE. 11. THE ERECTION OF ANY STRUCTURAL STEEL MEMBERS SHALL NOT COMMENCE UNTIL ALL SUPPORTING CONCRETE/MASONRY ELEMENTS HAVE ATTAINED AT LEAST 75% OF THEIR INTENDED MINIMUM COMPRESSIVE STRENGTH. 12. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SUPPORTS AS REQUIRED FOR THE SAFE ERECTION OF ALL STEEL. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL PERMANENT BRACING HAS BEEN INSTALLED AND FLOOR SLAB CONCRETE HAS ATTAINED 75% OF ITS REQUIRED STRENGTH. 13. STRUCTURAL STEEL SHALL BE TRUE AND PLUMB BEFORE FINAL BOLTING OR WELDING OF CONNECTIONS. 14. THE CONTRACTOR SHALL NOT MODIFY OR CUT ANY STRUCTURAL STEEL WITHOUT WRITEN APPROVAL FROM THE ENGINEER OF RECORD AND PEMB 15. THE CONTRACTOR SHALL FIELD TOUCH UP ALL ABRASIONS, BURNS, AND SIMILAR DEFECTS IN PAINT OF STRUCTURAL STEEL. 1. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING STANDARDS: A) ACI 301 – "SPECIFICATIONS FOR STRUCTURAL CONCRETE" B) ACI MCP - "MANUAL OF CONCRETE PRACTICE". C) ACI 318 – "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". D) ACI 318.1 – "BUILDING CODE REQUIREMENTS FOR STRUCTURAL PLAIN 2. CONCRETE SHALL HAVE A MINIMUM 28-DAY ULTIMATE COMPRESSIVE STRENGTH AS FOLLOWS: A) SLABS-ON-GRADE B) FOOTINGS 3000 PSI D) PIERS & FROST WALLS 4000 PSI 3. ALL CONCRETE EXPOSED TO WEATHER TO BE AIR ENTRAINED WITH 5%- 8% AIR 4. ALL CONCRETE IS TO BE NORMAL WEIGHT CONCRETE UNLESS NOTED OTHERWISE. 5. ALL CONCRETE FLATWORK EXPOSED TO WEATHER TO BE FREE OF LIGNITE AND OTHER DELETERIOUS MATERIALS. 6. THE COARSE AGGREGATE SHALL BE WELL GRADED #57 STONE WITH A MAXIMUM AGGREGATE SIZE OF 3/4". AGGREGATE FOR SLAB ON GRADE MAY HAVE A MAXIMUM AGGREGATE SIZE OF 1". 7. THE SLUMP OF THE CONCRETE SHALL BE 4". IF A HIGH RANGE WATER REDUCER IS USED THEN THE SLUMP PRIOR TO THE ADDITION OF THE WATER REDUCER SHALL BE 4". THE SLUMP SHALL NOT EXCEED 10" AFTER THE ADDITION OF A HIGH RANGE WATER REDUCER. 8. MINIMUM CEMENTITIOUS REQUIREMENTS: A) 3000 PSI CONCRETE 564 LBS/CU. YD. B) 4000 PSI CONCRETE: 9. MAXIMUM FLYASH CONTENT 10. MAXIMUM WATER-CEMENT RATIO: A) AIR ENTRAINED CONCRETE: B) NON-AIR ENTRAINED CONCRETE: 11. CONCRETE DESIGN SUBMITTALS SHALL INCLUDE A HISTORY OF BREAKS 12. PROTECTION FOR REINFORCING BARS: UNFORMED SURFACES IN CONTACT WITH SOIL FORMED SURFACES EXPOSED TO SOIL OR WEATHER #6 BARS AND LARGER #5 BARS AND SMALLER FORMED SURFACES NOT EXPOSED TO SOIL OR WEATHER #11 BARS AND SMALLER 13. CONSTRUCTION JOINTS IN WALLS TO BE KEYED AND PLACED AT APPROVED 14. ALL COLUMN POCKETS TO BE FILLED WITH CONCRETE AFTER COLUMN IS 15. SLEEVES AND OPENINGS IN BEAMS, JOISTS AND SLABS NOT SHOWN ON STRUCTURAL DRAWINGS ARE NOT PERMITTED, UNLESS APPROVED BY THE A) SEE ARCHITECTS DRAWINGS FOR WATERSTOPS. B) WATERSTOPS TO BE EXPANDING CLAY (BENTONITE OR EQUAL) UNLESS NOTED C) PROVIDE WATERSTOPS IN ALL BELOW GRADE FOUNDATION WALL CONSTRUCTION JOINTS. CONCRETE JOINTS 1. MAXIMUM SPACING OF CONSTRUCTION AND/OR CONTROL JOINTS IN SLAB-ON-GRADE CONSTRUCTION SHALL BE 18'-0" O.C. MAX. JOINTS SHALL BE PLACED TO PRODUCE PANELS THAT ARE AS SQUARE AS POSSIBLE AND NEVER EXCEEDING A LENGTH TO WIDTH RATIO OF 1.5 TO 1. 2. CONSTRUCTION AND/OR CONTROL JOINTS FOR SLAB-ON-GRADE CONSTRUCTION SHALL BE LOCATED ON COLUMN LINES. 3. CONSTRUCTION OR CONTRACTION JOINTS IN CONCRETE FOUNDATION WALLS SHALL BE SPACED AT 20'-0" ON CENTER MAXIMUM. REINFORCING FOR CONCRETE 1. ALL REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITIONS OF THE ACI 315 - "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" ACI 318 – "BUILDING CODE REQUIREMENTS FOR REINFORCED MSP2 - "CRSI MANUAL OF STANDARD PRACTICE". AWS D1.4 - "STRUCTURAL WELDING CODE - REINFORCING STEEL". WRI - "WELDED WIRE FABRIC MANUAL OF STANDARD PRACTICE". 2. STEEL REINFORCING BARS SHALL CONFORM TO ASTM 615 (GRADE 60), 60 KSI YIELD POINT DEFORMED BARS IN ACCORDANCE WITH LATEST ASTM SPECIFICATIONS UNLESS NOTED OTHERWISE 3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. 4. ALL REINFORCING BARS TO BE DETAILED AND PLACED IN ACCORDANCE WITH THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" SPECIFICATIONS. CONTINUOUS BARS TO BE 5. ONLY REBAR CONFORMING TO ASTM A706 REBAR MAY BE WELDED.

6. PROVIDE (2) #5 DIAGONALS FOR EACH LAYER AT EACH CORNER OF OPENINGS.

PROVIDE CORNER BARS IN THE OUTSIDE FACE AND AT WALL JUNCTURES

MATCHING HORIZONTAL WALL BARS. USE (3) #5 VERTICAL CONSTRUCTION

8. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE UNLESS

9. WELDED WIRE FABRIC SHALL LAP A MINIMUM OF 6" AND BE TIED TOGETHER.

PRE-ENGINEERED METAL BUILDING SYSTEM

SPECIAL INSPECTIONS 1. SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH CHAPTER 17 OF THE BUILDING CODE AND CHAPTER N OF AISC 360-10. (SEE INCLUDED TABLES AND NOTE 4. FOR SPECIAL INSPECTION REQUIREMENTS) 2. SPECIAL INSPECTION REPORTS SHALL BE FURNISHED TO BUILDING OFFICIAL, OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND CONTRACTOR. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR, AND IF NOT CORRECTED, SHALL BE REPORTED TO BUILDING OFFICIAL, OWNER, ARCHITECT, AND STRUCTURAL ENGINEER. 3. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING THAT THE STRUCTURAL WORK WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, PERFORMED IN ACCORDANCE WITH THE CONTRACT 4. THE FOLLOWING TYPES OF WORK REQUIRE SPECIAL INSPECTIONS: (REFER TO THE BUILDING CODE AND SPECIFICATIONS FOR DETAILED INSPECTION CONCRETE CONSTRUCTION 5. NTRIVE IS NOT RESPONSIBLE FOR PERFORMING SAID SPECIAL INSPECTIONS.

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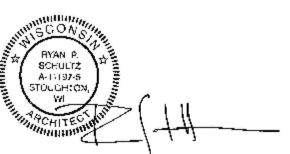
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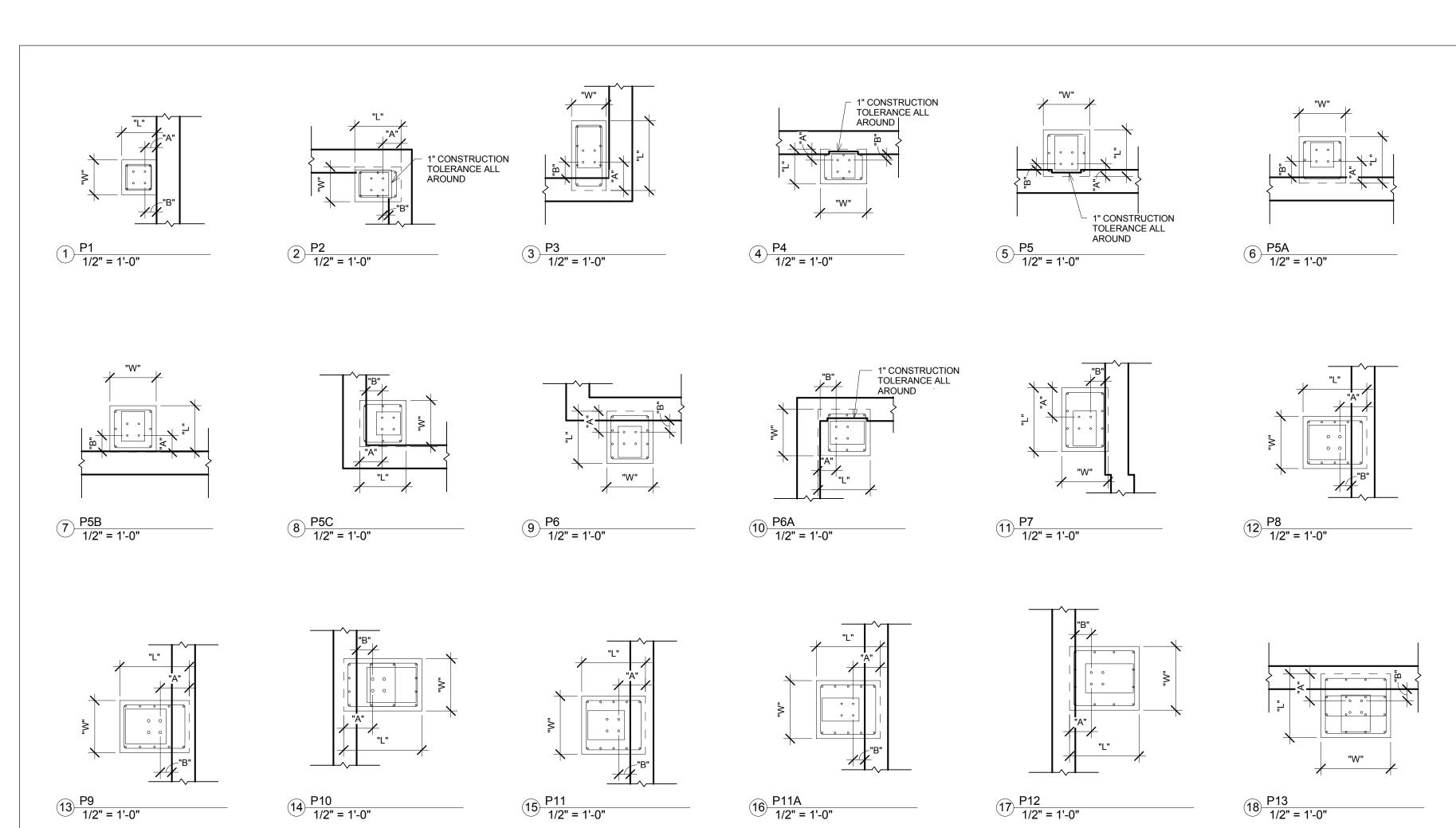


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No.	Description	Date
1	PROGRESS SET	06/05/2015

GENERAL NOTES

Date Issue Date S-100 Scale

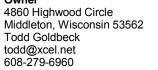
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PIER SCHEDULE									
MARK	PIER SIZE "W"x"L"	VERTICAL REINF	REINF DETAIL	PIER TIES	ELEV OF TOP OF PIER	ANCHOR BOLT	DIM "A"	DIM "B"	REMARKS
P1	12"x12"	(4) #6	1/S-101	(3) #3 @ 2" REST #3 @12"	99'-0"	(4) 5/8" Ø x 7-1/2" EMBED	4"	4"	-
P2	12"x16"	(6) #6	2/S-101	(3) #3 @ 2" REST #3 @12"	99'-0"	(4) 5/8" Ø x 7-1/2" EMBED	6-1/4"	2"	-
P3	12"x24"	(8) #6	3/S-101	(3) #3 @ 2" REST #3 @12"	99'-0"	(4) 5/8" Ø x 7-1/2" EMBED	9-3/4"	5-1/2"	-
P4	16"x12"	(6) #6	4/S-101	(3) #3 @ 2" REST #3 @12"	99'-0"	(4) 5/8" Ø x 7-1/2" EMBED	3-3/4"	2"	-
P5	16"x16"	(6) #6	5/S-101	(3) #3 @ 2" REST #3 @12"	99'-0"	(4) 5/8" Ø x 7-1/2" EMBED	7-3/4"	2"	-
P5A	16"x16"	(6) #6	6/S-101	(3) #3 @ 2" REST #3 @12"	99'-0"	(4) 5/8" Ø x 7-1/2" EMBED	7-1/2"	5-1/2"	-
P5B	16"x16"	(6) #6	7/S-101	(3) #3 @ 2" REST #3 @12"	99'-0"	(4) 5/8" Ø x 7-1/2" EMBED	5-3/4"	5-1/2"	-
P5C	16"x16"	(6) #6	8/S-101	(3) #3 @ 2" REST #3 @12"	99'-0"	(4) 5/8" Ø x 7-1/2" EMBED	7-3/4"	5-1/2"	-
P6	16"x18"	(8) #6	9/S-101	(3) #3 @ 2" REST #3 @12"	99'-0"	(4) 5/8" Ø x 7-1/2" EMBED	7-1/4"	4"	-
P6A	16"x18"	(8) #6	10/S-101	(3) #3 @ 2" REST #3 @12"	99'-0"	(4) 5/8" Ø x 7-1/2" EMBED	4-1/4"	5-1/2"	-
P7	16"x22"	(8) #6	11/S-101	(3) #3 @ 2" REST #3 @12"	99'-0"	(4) 5/8" Ø x 7-1/2" EMBED	10"	5"	-
P8	18"x22"	(10) #6	12/S-101	(3) #3 @ 2" REST #3 @12"	99'-0"	(4) 1" Ø x 12" EMBED	9-1/4"	4"	-
P9	18"x24"	(10) #6	13/S-101	(3) #3 @ 2" REST #3 @12"	99'-0"	(4) 1" Ø x 12" EMBED	10"	4"	-
P10	18"x27"	(12) #6	14/S-101	(3) #3 @ 2" REST #3 @12"	99'-0"	(4) 1" Ø x 12" EMBED	10"	5-1/2"	-
P11	20"x22"	(10) #6	15/S-101	(3) #3 @ 2" REST #3 @12"	99'-0"	(4) 3/4" Ø x 9" EMBED	9-1/4"	4"	-
P11A	20"x22"	(10) #6	16/S-101	(3) #3 @ 2" REST #3 @12"	99'-0"	(4) 5/8" Ø x 7-1/2" EMBED	9-1/4"	4"	-
P12	22"x24"	(12) #6	17/S-101	(3) #3 @ 2" REST #3 @12"	99'-0"	(4) 3/4" Ø x 9" EMBED	7-1/2"	5-1/2"	-
P13	24"x22"	(16) #6	18/S-101	(3) #3 @ 2" REST #3 @12"	99'-0"	(4) 3/4" Ø x 9" EMBED	9-1/4"	4"	-
P13A	24"x22"	(12) #6	19/S-101	(3) #3 @ 2" REST #3 @12"	99'-0"	(4) 1" Ø x 12" EMBED	9-1/2"	4"	-
P13B	24"x22"	(12) #6	20/S-101	(3) #3 @ 2" REST #3 @12"	99'-0"	(4) 3/4" Ø x 9" EMBED	9-1/4"	4-1/4"	-
P14	24"x26"	(14) #6	21/S-101	(3) #3 @ 2" REST #3 @12"	99'-0"	(4) 3/4" Ø x 9" EMBED	9-1/2"	5-1/2"	-

FOOTING SCHEDULE					fs = 3000 psf
					f'c = 3000 psi
	SIZE			REINFO	DRCING
MARK	L	S	D	LONG BARS	SHORT BARS
F5	5'-0"	5'-0"	1'-6"	6 #4	6 #4
F7	7'-0"	7'-0"	2'-0"	8 #5	8 #5
F8	8'-0"	8'-0"	1'-6"	9 #6	9 #6
F10	10'-0"	10'-0"	2'-0"	11 #5	11 #5
F11	11'-6"	11'-6"	2'-0"	13 #5	13 #5































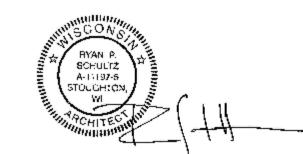












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No.	Description	Date			

Xcel Sports Complex

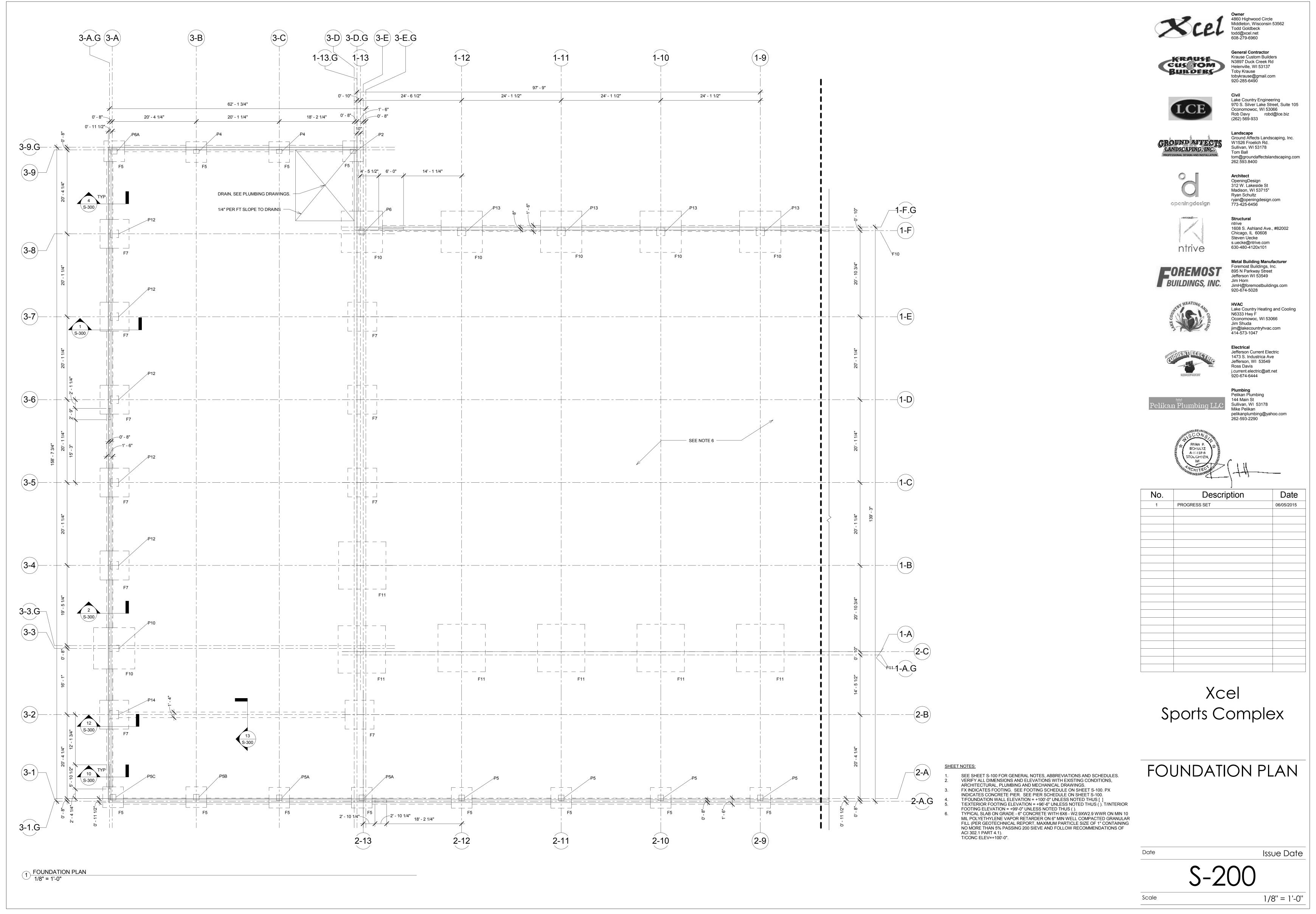
SCHEDULES, BASE PLATE AND PIER DETAILS

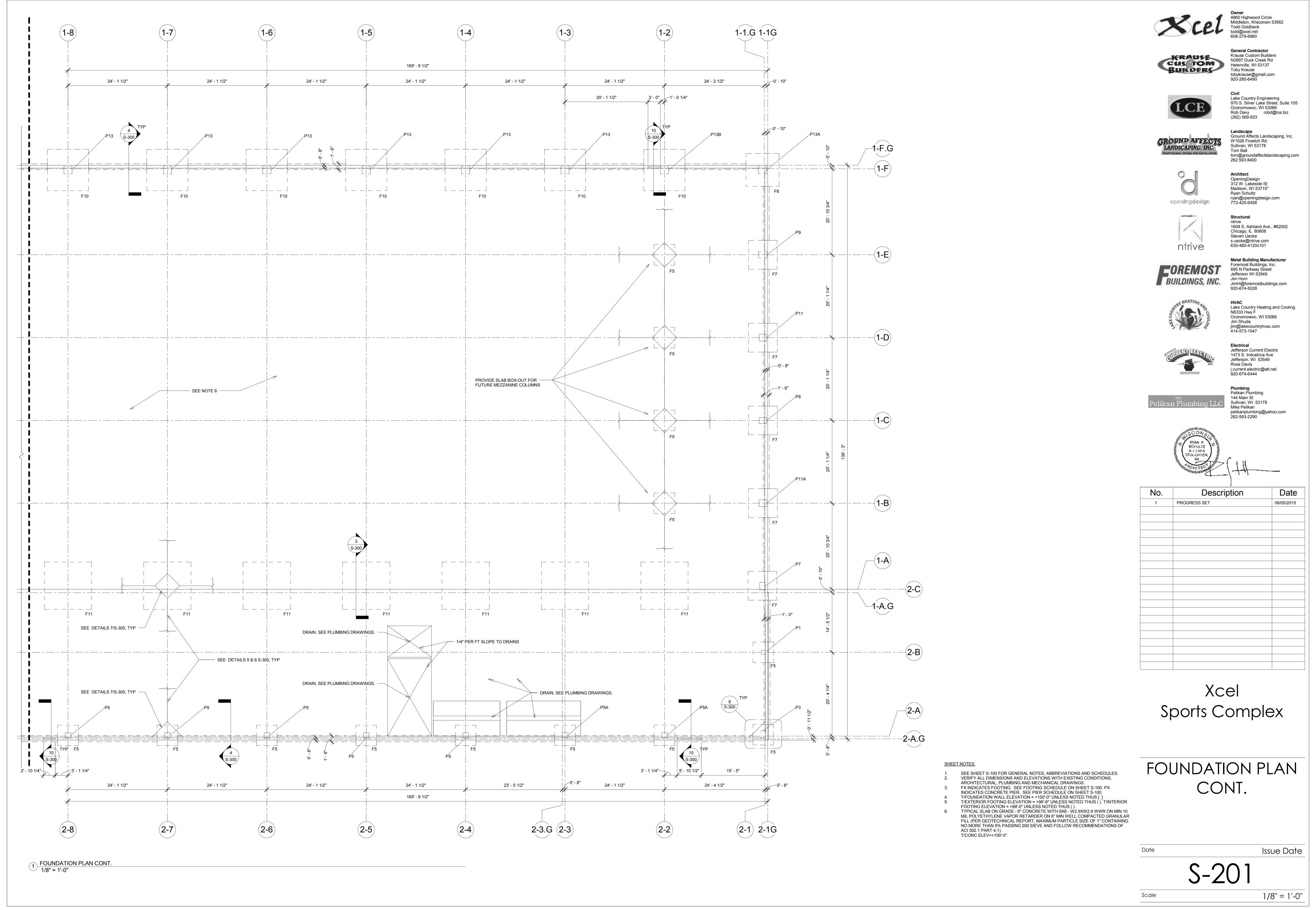
Issue Date

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19 P13A 1/2" = 1'-0"





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