

1. CODE: INTERNATIONAL BUILDING CODE 2009 WITH WISCONSIN AMENDMENTS / ASCE 7-05  
2. FLOOR LIVE LOADS: (REDUCED AS ALLOWED BY THE BUILDING CODE)

OFFICES:	= 50 PSF*
PUBLIC AREAS:	= 100 PSF*
STORAGE (LIGHT):	= 125 PSF*
RETAIL AT FIRST FLOOR:	= 100 PSF*

\* INDICATES 15 PSF PARTITION LOAD IN ADDITION TO LOAD INDICATED

[illegible]

1. SUBMITTALS PREPARED BY SUBCONTRACTORS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO SUBMITTING TO ARCHITECT
2. INTENTIVE FEES SHALL BE SUBMITTED FOR ANY MISUSE, MODIFICATION, OR MISREPRESENTATION OF ANY INFORMATION CONTAINED IN ANY ELECTRONIC MEDIA TRANSFERRED. INTENTIVE ENGINEERING SHALL BE HELD RESPONSIBLE FOR ANY MISUSE, MODIFICATION, OR MISREPRESENTATION OF COSTS ARISING OUT OF, OR RESULTING FROM THE USE OF SAID DOCUMENTS. CONTRACTOR SHALL NOT ELECTRONIC DOCUMENTS TO OWNER'S RECIPIENT'S OWN RISK.
3. ALL SUBMITTALS REVIEWED BY STRUCTURAL ENGINEER ARE REVIEWED FOR CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND GENERAL COMPLIANCE WITH THE INFORMATION INCLUDED IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR CORRELATING PROCESSES AND TECHNIQUES OF CONSTRUCTION, AND COORDINATING THE ACTS OF CONSTRUCTION WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
4. ALL SUBMITTALS SHALL BE REVIEWED BY THE ENGINEER FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. CONTRACT DOCUMENTS SHALL BE REVIEWED AND RETURNED WITHIN THE FOLLOWING PERIOD AFTER RECEIVED BY THE ENGINEER:
  - REVISIONS 10 WORKING DAYS
  - CONCRETE MIX DESIGNS 10 WORKING DAYS
5. CONTRACTOR SHALL REGISTER ALL ENGINEERS SHALL BE LICENSED PROFESSIONAL ENGINEERS REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, DESIGN LOAD CALCULATIONS, AND CALCULATIONS TO THE ENGINEER. CONTRACTOR IS DESIGNED FOR LOADS SPECIFICED IN THE CONTRACT DOCUMENTS OR IN THE BUILDING CODES. IF THE LOADS SPECIFIED ARE NOT SUFFICIENT TO BEYOND THE BUILDING CODES, IF THE LOADS SPECIFIED ARE NOT SUFFICIENT, SUBMIT A WRITTEN REQUEST FOR ADDITIONAL INFORMATION TO THE ARCHITECT. THE FOLLOWING ELEMENTS SHALL BE SUBMITTED TO THE ENGINEER:
  - STRUCTURAL STEEL CONNECTIONS NOT DETAILLED OR SHOWN ON THE CONTRACT DOCUMENTS
  - STEEL STAIRS AND HANDRAILS
  - STEEL DECKING
  - STRUCTURAL LIGHT GAUGE FRAMING INCLUDING EXTERIOR WALLS

1. ALL FOUNDATIONS SHALL BE SUPPORTED ON APPROVED EXISTING SUBGRADE OR APPROVED COMPACTED STRUCTURAL FILL HAVING A MINIMUM BEARING CAPACITY OF 2,000 PSF. SEE THE GEOTECHNICAL ENGINEERING REPORT AS PREPARED BY GESTRA ENGINEERING, INC. DATED 04/20/01.
2. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS DESCRIBED IN THE DRAWINGS, SPECIFICATIONS OR FORMING DATA. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND TO ASSIST THE CONTRACTOR DURING BIDDING AND SUBSEQUENT CONSTRUCTION, AND TO REPRESENT CONDITIONS ONLY AT SPECIFIC LOCATIONS AT THE PARTIES' JOINT RISK.
3. ALL EXTERIOR FOUNDATIONS SHALL BEAR ON APPROVED SUBGRADE AT A MINIMUM DEPTH OF 4 FEET.
4. FOOTING ELEVATIONS SHOWN ON THE DRAWINGS REPRESENT ESTIMATED DEPTHS AND ARE NOT TO BE CONSTRUED AS LIMITING THE AMOUNT OF EXCAVATION REQUIRED TO OBTAIN THE PROPOSED ELEVATIONS.
5. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS IN ALL EXCAVATIONS AS REQUIRED TO PREVENT HORIZONTAL MOVEMENT OR SETTLEMENT OF EXISTING ADJACENT STRUCTURES OR UTILITIES WHICH WILL ENDANGER LIVES OR PROPERTY.
6. THE CONTRACTOR SHALL MAINTAIN CONTROL OF SURFACE AND SUBSURFACE WATER PROMPTLY TO INSURE THAT ALL FOUNDATION WORK IS PERFORMED IN A DRY CONDITION.
7. FOUNDATIONS SHALL NOT BE PLACED ON FROZEN SUBGRADE.
8. THE CONTRACTOR SHALL PROTECT IN-PLACE FOUNDATIONS AND SLAB-ON-GRADE FROM SETTLEMENT FROM ANY EXCAVATION SUBJECT TO THE CONTRACTOR.
9. FOUNDATION WALLS SHALL BE BRACED DURING BACKFILLING AND COMPACTION OPERATIONS. BRACING SHALL BE LEFT IN PLACE UNTIL THE FOUNDATION STRUCTURE IS COMPLETELY SETTLED AND APPROVED BY THE ENGINEER.
10. WHERE FOUNDATION WALLS HAVE FILL ON BOTH SIDES, BACKFILLING SHALL BE DONE IN STAGES TO PREVENT EXCESSIVE LATERAL PRESSURE.

1. PRE-ENGINEERED METAL BUILDINGS WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING:
  - A) AISC "DESIGN GUIDE FOR DESIGN, FABRICATION AND ERECTION OF STEEL FOR BUILDINGS"
  - B) AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
  - C) AWS D1.1 "STRUCTURAL WELDING CODE - STEEL"
  - D) AISC "DESIGN GUIDE FOR DETAILING STEEL CONNECTIONS"
  - E) MBMA "METAL BUILDING SYSTEMS MANUAL"
2. DESIGN LOADS AND CODE AS NOTED ON THEIR DRAWINGS.
3. THE PEEMBS SHALL BE DESIGNED AND FABRICATED BY A MBMA MEMBER MANUFACTURER.
4. THE PEEMB MANUFACTURER SHALL PROVIDE STAMPED DRAWINGS AND A FULL LIST OF ALL REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE JURISDICTION IN WHICH THE BUILDING IS LOCATED.
5. THE PEEMB MANUFACTURER SHALL CONFORM TO THE FOLLOWING DEFLECTION CRITERIA:
  - A)ISC "DESIGN GUIDE AS SERVICEABILITY DESIGN CONSIDERATIONS FOR STEEL BUILDINGS"
  - B) AISC "DESIGN GUIDE FOR DETAILING STEEL CONNECTIONS"
6. ANCHOR RODS SHALL BE PRESET WITH TEMPLATES.
7. LEVELING PLATES AND BEARING PLATES SHALL BE SET IN A FULL BED OF STEEL FILL.
8. THE PEEMB MANUFACTURER SHALL BE RESPONSIBLE FOR ALL CONNECTIONS, STIFFENERS ETC. REQUIRED TO SAFELY ERECT THE BUILDING. THE PEEMB MANUFACTURER SHALL PROVIDE REQUIRED STANDING STANDARDS SHOWING THROUGH THE PEEMB STEEL ON THE DRAWINGS.
9. THE PEEMB MANUFACTURER SHALL PROVIDE FOUNDATION RECTIONS.
10. THE PEEMB MANUFACTURER SHALL BE RESPONSIBLE FOR THE ENGINEER IN A TIMELY MANNER CHANGES TO, OR OMISSIONS OF REACTIONS, ETC. BY THE PEEMB MANUFACTURER THAT MAY BE REQUIRED BY THE FOUNDATIONS WILL REQUIRE ADDITIONAL ENGINEERING FEES.
11. ALL WELDS SHALL USE WELD METAL CONFORMING TO E70XX AND CONFORMING TO THE REQUIREMENTS OF THE AISC CODE OF STANDARD PRACTICE.
12. ALL WELDS SHALL BE MADE BY AWS CERTIFIED WELDERS CERTIFIED IN THE POSITION IN WHICH THE WELD IS TO BE MADE.
13. THE PEEMB MANUFACTURER SHALL BE RESPONSIBLE FOR THE PEEMB MANUFACTURER SHALL NOT COMMENCE UNTIL ALL SUPPORTING CONCRETE/MASSONRY ELEMENTS HAVE ATTAINED AT LEAST 75% OF THEIR INTENDED MINIMUM COMPRESSIVE STRENGTH.
14. THE PEEMB MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN BRACING AND SUPPORTS AS REQUIRED FOR THE SAFE ERECTION OF ALL STEEL.
15. THE PEEMB MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN BRACING HAS BEEN INSTALLED AND FLOOR SLAB CONCRETE HAS ATTAINED 75% OF ITS REQUIRED STRENGTH.
16. THE PEEMB MANUFACTURER SHALL BE TRUE AND PLUMB BEFORE FINAL BOLTING OR WELDING OF CONNECTIONS.
17. THE CONTRACTOR SHALL NOT MODIFY OR CUT ANY STRUCTURAL STEEL WITHOUT THE APPROVAL FROM THE ENGINEER OF RECORD AND PEEMB MANUFACTURER.
18. THE CONTRACTOR SHALL FIELD TOUCH UP ALL ABRASIONS, BURNS, AND DISCOLORATION IN PAINT OF STRUCTURAL STEEL.

1. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING STANDARDS:
  - A) ACI 311 - "SPECIFICATIONS FOR STRUCTURAL CONCRETE"
  - B) ACI 308 - "MANUAL OF CONCRETE PRACTICE"
  - C) ACI 318 - "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
  - D) ACI 318.1 - "BUILDING CODE REQUIREMENTS FOR STRUCTURAL PLAIN CONCRETE"
2. ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY ULTIMATE COMPRESSIVE STRENGTH AS FOLLOWS:
  - A) SLAB ON GRADE 4000 PSI
  - B) FOOTINGS 3000 PSI
  - C) PIERS & FROST WALLS 4000 PSI
3. ALL CONCRETE EXPOSED TO WEATHER TO BE AIR ENTRAINED WITH 5%-8% AIR ENTRAINMENT.
  - A) ALL CONCRETE IS TO BE NORMAL WEIGHT CONCRETE UNLESS NOTED OTHERWISE.
  - B) ALL CONCRETE EXPOSED TO WEATHER TO BE FREE OF LIGNS AND OTHER DELETERIOUS MATERIALS.
  - C) 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".
  - D) THE SLUMP OF THE CONCRETE SHALL BE 4" IF A HIGH RANGE WATER REDUCER IS ADDED THEN THE SLUMP RATIO 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.
4. MINIMUM CEMENTITIOUS REQUIREMENTS:
  - A) 3000 PSI CONCRETE: 57% LBS/CU. YD.
  - B) 4000 PSI CONCRETE: 564 LBS/CU. YD.
  - C) MAXIMUM FLYASH CONTENT: 15%
5. MAXIMUM WATER-CEMENT RATIO:
  - A) AIR ENTRAINED CONCRETE: 0.45
  - B) NON-AIR ENTRAINED CONCRETE: 0.50
6. ALL CONCRETE DETAILMENTS SHALL INCLUDE A HISTORY OF BREAKS ACCORDING TO A318.
  - A) PROTECTION FOR REINFORCING BARS:
    - 1) UNIFORM BARS IN CONTACT WITH SOIL 3"
    - 2) FORMED SURFACES EXPOSED TO SOIL OR WEATHER 2"
    - 3) #6 BARS AND LARGER 1 1/2"
    - 4) #5 BARS AND SMALLER 1 1/2"
  - B) FORMED SURFACES NOT EXPOSED TO SOIL OR WEATHER 1 1/2"
  - C) BARS SLABS 1 1/2"
7. #11 BARS AND SMALLER 3/4"
8. CONSTRUCTION JOINTS IN WALLS TO BE KEVED AND PLACED AT APPROVED LOCATIONS.
9. ALL CULM COLUMN POLES TO BE FILLED WITH CONCRETE AFTER COLUMN IS ERECTED.
10. SLEEVES AND OPENINGS IN BEAMS, JOISTS AND SLABS NOT SHOWN ON STRUCTURAL DRAWINGS ARE NOT PERMITTED, UNLESS APPROVED BY THE ENGINEER.
11. WATERSTOPS
  - A) SEE ARCHITECTS DRAWINGS FOR WATERSTOPS
  - B) WATERSTOPS TO BE EXPANDING JELLY (BENTONITE OR EQUAL) UNLESS NOTED OTHERWISE.
  - C) PROVIDE WATERSTOPS IN ALL BELOW GRADE FOUNDATION WALL CONSTRUCTION JOINTS.

1. MAXIMUM SPACING OF CONSTRUCTION AND/OR CONTRACTION 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 CONTRACTION 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.

- ALL REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING:
  - A) AWS D1.1 - "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
  - B) ACI 318 - "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
  - C) AWS D12.1 - "CRSI MANUAL OF STANDARD PRACTICE"
  - D) AWS D14 - "STRUCTURAL WELDING CODE - REINFORCING STEEL"
  - E) WFLD 1 - "WELDED WIRE FABRIC MANUAL OF STANDARD PRACTICE"
2. REINFORCING STEEL SHALL BE SUPPLIED BY THE FOLLOWING:
  - A) 60,000 PSI YIELD POINT DEFORMED BARS IN ACCORDANCE WITH LATEST ASTM SPECIFICATION
  - B) WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185
  - C) ALL REINFORCING BARS TO BE DETAILED AND PLACED IN ACCORDANCE WITH THE ACI 318 OF 2002 EDITION
  - D) ALL REINFORCING BARS TO BE DETAILED TO CONFORM TO THE "CONCRETE STRUCTURES" SPECIFICATIONS. CONTINUOUS BARS TO BE LAPPED.
3. ONE CORNER CONFORMING TO ASTM A709 REBAR MAY BE WELDED.
4. PROVIDE (2) @ DIAGONALS FOR EACH LAYER AT EACH CORNER OF OPENINGS.
5. PROVIDE CORNER BARS IN THE OUTSIDE FACE AND AT ALL JUNCTIONS OF REINFORCED CENTRAL WALL BARS. USE (3) @ VERTICAL CONSTRUCTION RODS AT CORNERS.
6. LAP SPICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE UNLESS OTHERWISE NOTED.
7. WELDED WIRE FABRIC SHALL LAP A MINIMUM OF 6" AND BE TIED TOGETHER.

1. SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH CHAPTER 17 OF THE IBC, AND THE SPECIAL INSPECTION REPORTS SHALL BE INCLUDED TABLES AND NOTE 4 FOR SPECIAL INSPECTION REQUIREMENTS)
2. SPECIAL INSPECTION REPORTS SHALL BE FURNISHED TO BUILDING OFFICIALS AND THE ARCHITECT. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR, AND IF NOT CORRECTED, SHALL BE REPORTED TO BUILDING OFFICIALS BY THE ARCHITECT.
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 DOCUMENTS.
4. THE FOLLOWING TYPES OF WORK REQUIRE SPECIAL INSPECTIONS: (REFER TO IBC BUILDING CODE AND SPECIFICATIONS FOR DETAILED INSPECTION REQUIREMENTS)
  - CONCRETE CONSTRUCTION
  - SOILS
5. NTRIVE IS NOT RESPONSIBLE FOR PERFORMING SAID SPECIAL INSPECTIONS.

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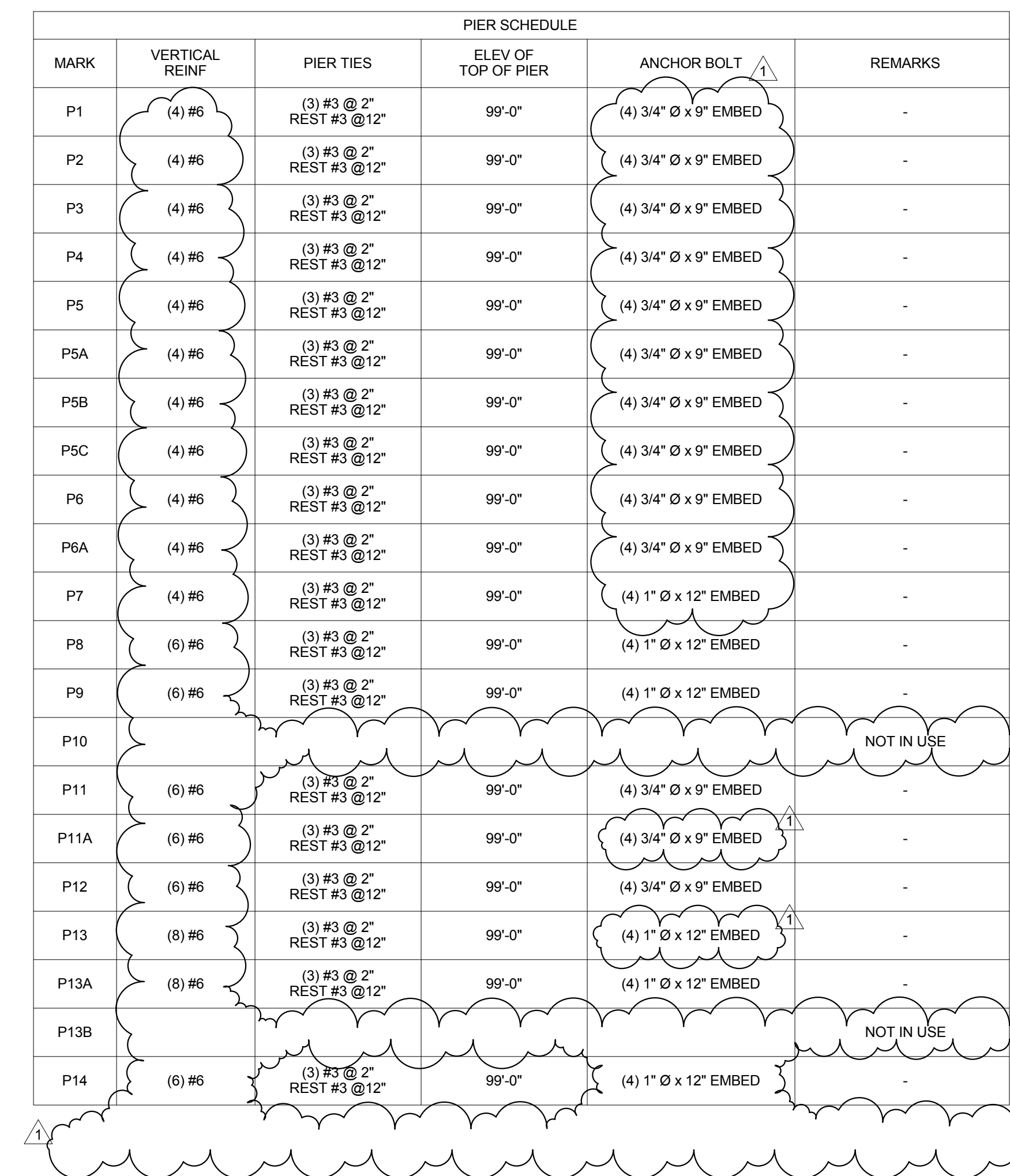
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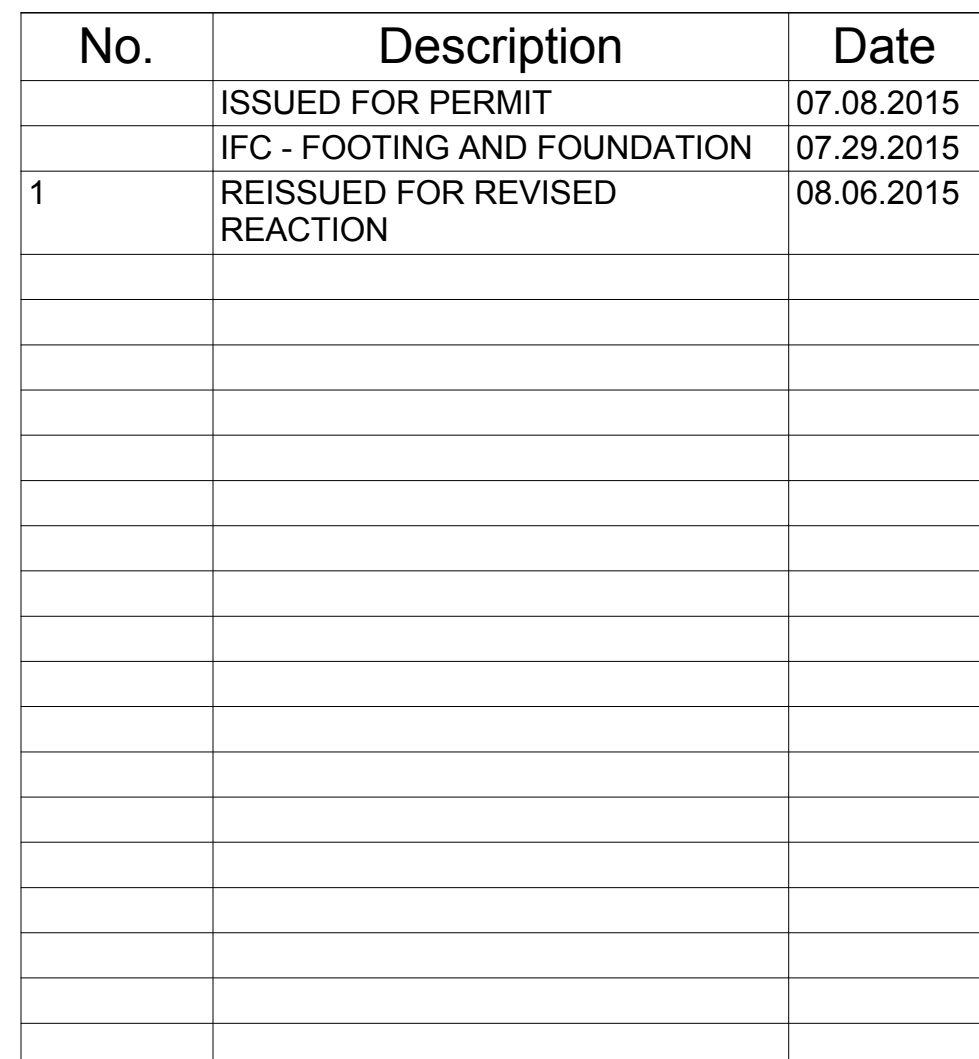
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FOOTING SCHEDULE					fs = 3000 psf Fc = 3000 psi	
MARK	SIZE			REINFORCING		
	L	S	D	LONG BARS	SHORT BARS	
F5	5'-0"	5'-0"	1'-6"	6 #4	6 #4	
F7	7'-0"	7'-0"	2'-0"	8 #5	8 #5	
F8	8'-0"	8'-0"	1'-6"	9 #6	9 #6	
F10	10'-0"	10'-0"	2'-0"	11 #5	11 #5	
F11	11'-6"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



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## SCHEDULES, BASE PLATE AND PIER DETAILS

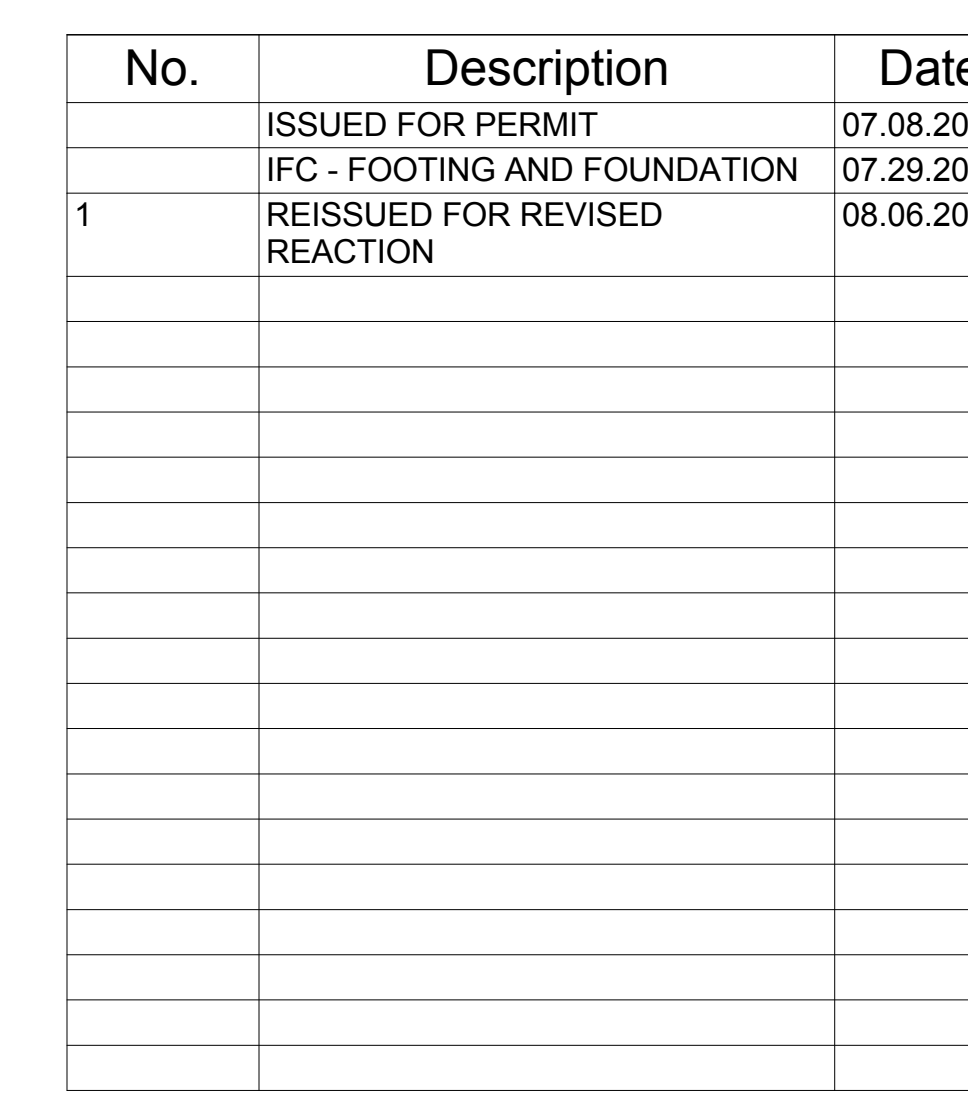
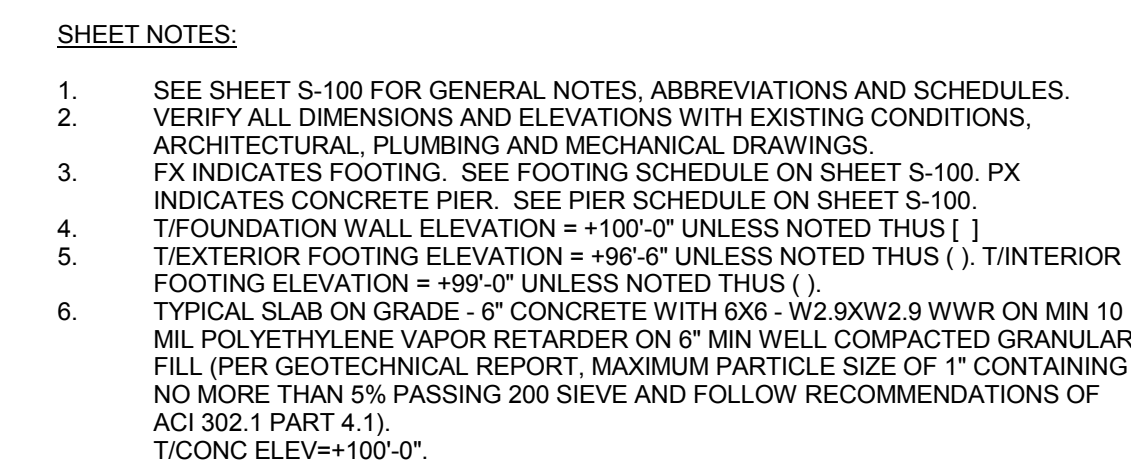
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## FOUNDATION PLAN

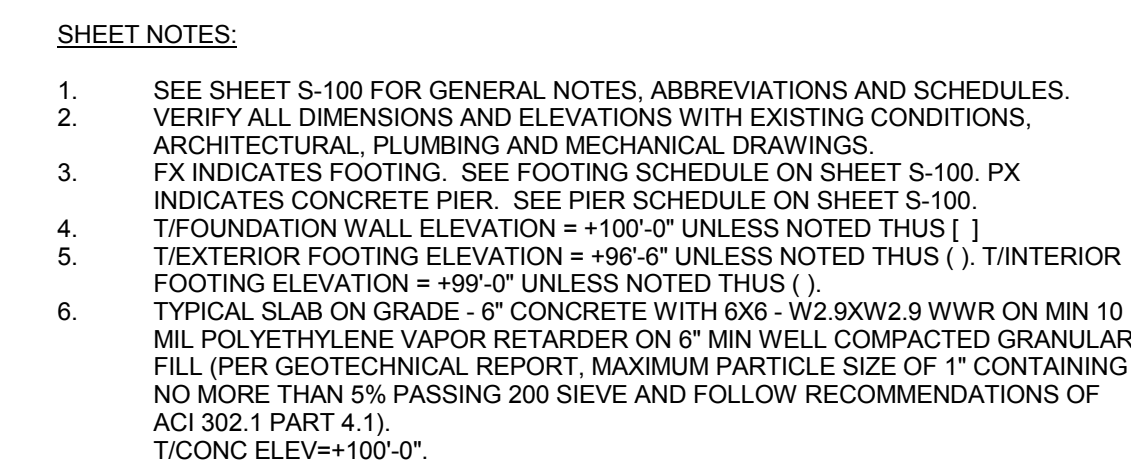
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