

STEEL GENERAL NOTES:

1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC 303-05 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, PIP STS05120 FABRICATION OF STRUCTURAL AND MISCELLANEOUS STEEL SPECIFICATION, PIP STS05130 ERECTION OF STRUCTURAL AND MISCELLANEOUS STEEL SPECIFICATION, AND PROJECT SPECIFICATIONS.
2. ALL STRUCTURES ARE DESIGNED FOR "IN-PLACE" LOADS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AND PROVIDE ADEQUATE TEMPORARY BRACING DURING THE CONSTRUCTION AND EQUIPMENT ERECTION PHASES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES INCURRED UNTIL CONSTRUCTION HAS BEEN COMPLETED.
3. STRUCTURAL STEEL "W" AND "WT" WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992 SPECIFICATIONS.
4. STRUCTURAL PLATE, ANGLE AND CHANNEL SHAPES SHALL CONFORM TO ASTM A36 SPECIFICATIONS.
5. STRUCTURAL PIPE SHAPES SHALL CONFORM TO ASTM A53, GRADE B SPECIFICATIONS.
6. RECTANGULAR AND SQUARE HSS SHAPES SHALL CONFORM TO ASTM A500, GRADE B OR C.
7. STRUCTURAL STEEL BOLTS SHALL BE 3/4" (UNLESS NOTED) HIGH STRENGTH BOLTS (THREADS INCLUDED IN THE SHEAR PLANE) IN ACCORDANCE WITH ASTM A325 TYPE 1 OR F1852. NUTS SHALL BE IN ACCORDANCE WITH ASTM A563 GRADE DH (HEAVY HEX) OR A194 GRADE 2H. WASHERS SHALL BE IN ACCORDANCE WITH ASTM F436.
8. MACHINE BOLTS SHALL CONFORM TO ASTM A307, GRADE A, UNLESS NOTED.
9. HOLES IN NEW OR EXISTING STEEL SHALL BE DRILLED OR PUNCHED. NO BURNING OF HOLES SHALL BE PERMITTED. HOLE SIZE SHALL BE NOMINAL BOLT DIAMETER PLUS 1/16".
10. SHOP CONNECTIONS SHALL BE WELDED AND FIELD CONNECTIONS SHALL BE BOLTED, UNLESS NOTED. FIELD WELDING SHALL OCCUR ONLY WHERE INDICATED ON THE DRAWINGS. SHOP WELDED CONNECTIONS SHALL BE SEAL-WELDED IN ADDITION TO DRAWING-SPECIFIED WELDS.
11. CONNECTIONS NOT DESIGNATED AS PRETENSION OR SLIP CRITICAL SHALL BE INSTALLED AS SNUG-TIGHT CONNECTIONS.
12. PRETENSIONED AND SLIP CRITICAL CONNECTIONS SHALL BE INSTALLED PER RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS AND SHALL BE TIGHTENED USING DIRECT TENSION INDICATORS OR OTHER APPROVED METHOD.
13. BRACE CONNECTION, GUSSET AND STIFFENER PLATES SHALL BE 3/8" MINIMUM THICKNESS, UNLESS NOTED. ALL PLATES SHALL BE GAS CUT OR SAW CUT. NO BURNING OF PLATES SHALL BE PERMITTED. VERTICAL BRACING CONNECTION PLATES SHALL BE LOCATED ON COLUMN AND BEAM CENTERLINES UNLESS NOTED ON THE DESIGN DRAWINGS.
14. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE. WELDING ELECTRODES SHALL BE E70XX IN ACCORDANCE WITH AWS A5.1 CARBON STEEL ELECTRODES FOR SHIELDED METAL ARC WELDING.
15. WELDS SHALL BE MINIMUM 3/16" FILLET WELDS, UNLESS NOTED.
16. GRATING SHALL BE GALVANIZED 1-1/4" X 3/16" SERRATED WELDED STEEL BAR GRATING. ALL EXPOSED EDGES SHALL BE BANDED. EDGES EXPOSED AT TOP OF STAIR ACCESS SHALL BE FURNISHED WITH A NON-SKID ABRASIVE NOSING. NOSING SHALL BE MEBAC BY IKG INDUSTRIES OR APPROVED EQUIVALENT.
17. GRATING SHALL BE ATTACHED TO STEEL FRAMING MEMBERS USING THE HILTI X-FCM-F HOT-DIPPED GALVANIZED FASTENING DISK WITH STAINLESS STEEL STUD (UNLESS NOTED) AT 2'-0" MAXIMUM SPACING WITH A MINIMUM OF 4 DISKS PER GRATING PANEL. EACH DISK SHALL ENGAGE 2 BEARING BARS. DISK ASSEMBLIES SHALL BE FURNISHED BY THE FABRICATOR.
18. STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123, A143, A384 AND A385 UNLESS NOTED.
19. BOLTS, NUTS AND WASHERS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153.
20. STRUCTURAL STEEL COATINGS DAMAGED BY CUTTING, BURNING, WELDING OR DRILLING SHALL BE REPAIRED AS DIRECTED BY THE SITE REPRESENTATIVE.
21. SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
22. SUBSTITUTION OF MATERIAL, SIZE, SHAPE OR ASTM DESIGNATION IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER.

REFERENCE SPECIFICATIONS:

AISC 303-05	CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES
RCSC 2004	SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
PIP STS05120 01-2002	FABRICATION OF STRUCTURAL AND MISCELLANEOUS STEEL SPECIFICATION
PIP STS05130 02-2002	ERECTION OF STRUCTURAL AND MISCELLANEOUS STEEL SPECIFICATION
AWS D1.1 2004	STRUCTURAL WELDING CODE-STEEL
AWS A5.1 2004	SPECIFICATION FOR CARBON STEEL ELECTRODES FOR SHIELDED METAL ARC WELDING

STAIR NOTES:

1. STAIRWAY LANDINGS SHALL BE NON LESS THAN THE WIDTH OF THE STAIR AND A MINIMUM OF 2'-6" WIDE MEASURED IN THE DIRECTION OF TRAVEL.
2. STAIR TREADS SHALL BE 1 1/4 x 3/16 SERRATED GRATING ITH NON-SLIP NOSING AND GALVANIZED UNLESS OTHERWISE NOTED ON DESIGN DRAWING.
3. RISER HEIGHT AND TREAD WIDTH SHALL BE UNIFORM THROUGHOUT ANY FLIGHT OF STAIRS.
4. THE PREFERRED RISER HEIGHT SHALL BE 8"± AND A TREAD WIDTH OF SHALL BE 9 1/2"± WITH A RISE + TREAD RUN EQUALING A TOTAL OF 17 1/2".
5. VERTICAL CLEARANCE ABOVE STAIRS SHALL BE A MINIMUM OF 7'-0", MEASURED FROM THE LEADING EDGE OF THE TREAD.
6. THE MAXIMUM RISER HEIGHT FOR A STAIR OR STILE SHALL BE 9 1/2" EXCEPT FOR THE FIRST SINGLE STEP RISER WHICH MAY BE UP TO 12" MAX.
7. STAIR TREADS AND STRINGERS ARE TO BE SHIPPED ASSEMBLED READY FOR FIELD BOLTING TO PLATFORM.
8. A SAFETY GATE SHALL BE PROVIDED AT ALL STAIR ACCESS TO PLATFORMS UNLESS NOTED OTHERWISE ON DESIGN DRAWINGS.
9. STRINGER SHALL BE AT THE MINIMUM A C8 MEMBER.



REX-STEEL-NOTES

SCALE: NONE

DATE: 07/31/2014

REV: A