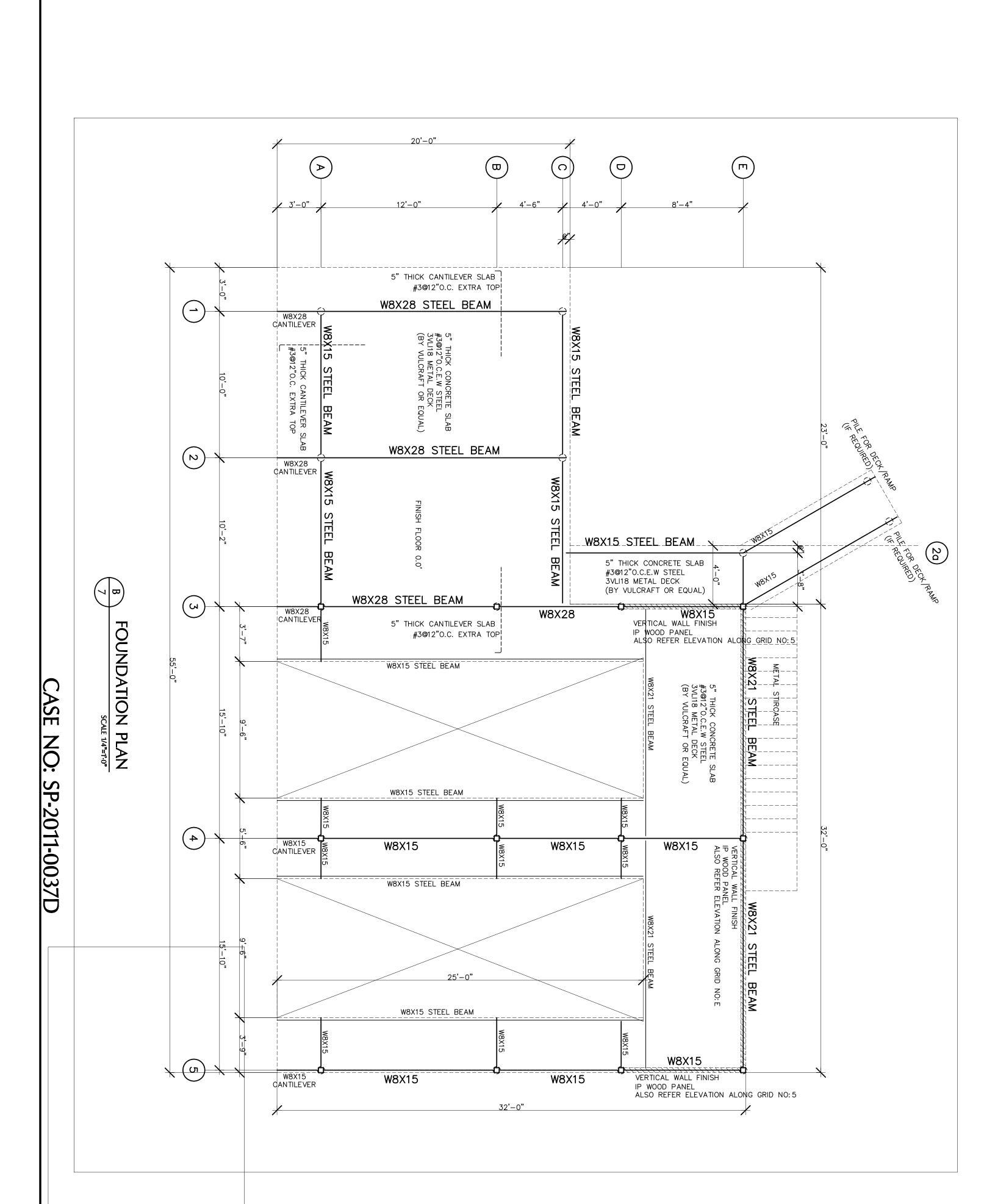
All interior shall coordinate structural steel fireproofing requirements.
All interior structural steel, including steel joists, scheduled or indicated to receive spray applied fireproofing shall be delivered to the project site unprimed. Steel exposed to corrosive conditions after installation shall be primed with a protective coating which does not diminish the bond between the spray applied fireproofing, and the steel substrate. Any primer, and/or coating applied to structural steel shall be approved for use in the applicable U.L. Fire Resistance Assembly used on the project. Contractor shall protect any unprimed structural steel from detrimental effects of corrosion, as required, until the steel is enclosed and protected by the new construction.

6. Shop painting: Paint structural steel with one coat of manufacturer's standard red oxide primer applied at a rate to provide a uniform dry film thickness of 2.5 mils. STRUCTURAL STEEL

1. Structural Steel shall conform to ASTM Specification A992 or A572, Grade 50 except where A36 is noted on plan, except that miscellaneous plates, angles, and channels may be A572, grade 50 or A36. Steel pipe shall conform to ASTM Specification A53, Type E or S, Grade B. Rectangular hollow structural steel sections shall conform to ASTM Specification A 500, Grade B, Fy=46 ksi. Round hollow structural steel sections shall conform to ASTM Specification A 500, Grade B, Fy=42 ksi. Lap ends of deck 2" at supports and 1 corrugation at sides. Weld deck to supports with 3 puddle welds per sheet per bearing using 1/2" weld washers. Attach deck to concrete supports using three 3/16" powder actuated pins per sheet per bearing. 5. Wind brace and truss connections shall be designed and detailed as follows, unless noted otherwise on the Drawings: 2. Bolts conform to ASTM A325. Bolts shall be designed using values for bearing type bolts with thread allowed in the shear plane. SLABS ON PERMANENT METAL FORM DECK 4. Beam connections shall be designed and detailed as follows, unless noted otherwise on the Drawings: 1. Welding shall conform to ANSI/AWS D1.1, latest editi STRUCTURAL STEEL CONNECTIONS Column base plates shall be grouted with a nor nonmetallic grout. Fillet welds with no size specified shall be 3/16", or minimum size required by AISC, whichever is larger. Steel for deck shall conform to ASTM A446, grade E, with a galvanized coating conforming to ASTM A525, G90 coating class. For connections not specifically addressed by these notes or the Drawings, provide fillet welds at all contact surfaces sufficient to develop the tensile strength of the smaller member at the joint. Splicing of structural steel members is prohibited without prior approval of the Engineer as to location and type of splice to be made. Any member having splice not shown and detailed on shop drawings will be rejected. Roof edges angles shall be continuous and shall be spliced only at supports. Splices shall be butt—welded to develop full capacity of the member. Moment connections indicated on Drawings as "MC" shall be welded to develop the full capacity of the member on both sides of supporting member. Submittal: Provide drawings showing details for fabrication and shop assembly of members, erection plans and details. Include details of connections, camber, weld profiles and sizes and spacing. Shop and erection drawings shall not be made using reproductions of the contract drawings. All welds denoted as moment connection or full penetration weld shall be ultrasonically or x-ray certified by an independent testing agency. Structural steel connections not specifically detailed on the Drawings shall be designed and detailed by the Contractor under the direct supervision of a registered engineer licensed in the State of Texas. Sealed calculations for all connections designed by the Contractor shall be submitted for the Architect's files. Connections shall be AISC type 2 simple framing connections. Shear tab connections shall not be used. If forces are not indicated on the Drawings, connections shall be designed to develop the full tensile capacity of the members. Short slotted holes shall be permitted provided washers are installed in accordance with AISC requirements. Washers shall be hardened where A325 bolts are utilized. The minimum number of rows of bolts shall be 1/6 of the beam depth with any fraction be rounded to the next higher number. If not indicated on the Drawings, connections shall be designed for 55 percent of the total load capacity for the beam span shown in the beam tables in Section 2 of the AISC Manual, ninth edition. In general, shop connections shall be bolted or welded and field connections shall be bolted. Connections shall be designed and detailed for the forces shown the Drawings. Where indicated, connections shall be designed for the scheduled near force, the shear force indicated on the Drawings as "V=", nd the horizontal force indicated as "H=". Connections shall be welded. Bolts shall be "snug tight", U.N.O. shrink, high strength METAL ROOF DECK

1. Roof deck shall Roof deck shall be galvanized with a class G90 coating.
 Roof deck shall be continuous over four or more support 3. Roof deck connections shall be as follows: Submittal: Submit deck layout plans and details indicating deck type, fastening methods and layout, support locations, projections, openings and reinforcement, and any other pertinent details and accessories. Mechanical, electrical & plumbing systems shall not be supported by the metal roof deck. Puddle welds shall be 5/8" minimum diameter and shall be made through weld washers for 22 gauge and lighter decking. Power driven fasteners shall be selected by the contractor for the combinations of deck gauge and deck support member thickness. Submit proposed fasteners with complete manufacturer's information including diaphragm shear values for Engineer's review. Screws shall be Teks #10 or At interior supports: puddle welds or power driven fasteners at each side lap and at intermediate ribs at 12" on center. At side laps: 2 screws equally spaced at 3 equal spaces between supports. At perimeter supports: puddle welds or power driven fasteners at 12" on center.





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