

GENERAL NOTES

- THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE FULLY COMPLIMENTARY AND SUPPLEMENTAL TO EACH OTHER AND SHALL BE TAKEN AS A WHOLE. STRUCTURAL WORK PERFORMED UNDER THESE DRAWINGS AND SPECIFICATIONS SHALL BE COORDINATED WITH EACH INDIVIDUAL CONTRACTOR. INCONSISTENCIES BETWEEN THE STRUCTURAL DRAWINGS AND THE SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- ALL STANDARDS IDENTIFIED IN THE CONTRACT DOCUMENTS AND SPECIFICATIONS SHALL BE BASED ON THE PUBLISHED EDITION OF THE STANDARD REFERENCED IN THE BUILDING CODE IN EFFECT FOR THIS PROJECT.
- THE CONTRACTOR SHALL COORDINATE THE STRUCTURAL WORK WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SITE DRAWINGS. REFER TO THESE DRAWINGS FOR DIMENSIONS, LOCATIONS AND QUANTITIES OF ALL SHAFTS, INSERTS, OPENINGS, SLEEVES, DEPRESSIONS, ATTACHMENTS AND ALL OTHER DETAILS NOT SHOWN IN THE STRUCTURAL DRAWINGS. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE CONTRACT DRAWINGS FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL MAKE NO DEVIATION FROM THE STRUCTURAL DRAWINGS WITHOUT THE WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD (SER).
- SECTIONS AND DETAILS SHOWN ON THE STRUCTURAL DRAWINGS ARE TO BE CONSIDERED "TYPICAL" FOR ALL SIMILAR CONDITIONS, UNLESS NOTED OTHERWISE.
- A PRE-CONSTRUCTION MEETING TO INCLUDE THE GENERAL CONTRACTOR, SUB-CONTRACTORS, ARCHITECT AND SER IS RECOMMENDED TO REVIEW APPLICABLE STRUCTURAL PROJECT REQUIREMENTS AND COORDINATE DESIGN AND CONSTRUCTION QUESTIONS.
- ALL REQUESTS FOR INFORMATION SHALL BE COORDINATED THROUGH THE ARCHITECT.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS, NEW AND EXISTING, BY MEASUREMENTS AND SURVEYS AT THE PROJECT SITE PRIOR TO SUBMITTAL OF THE SHOP DRAWINGS. THE CONTRACTOR SHALL TAKE ALL MEASUREMENTS NECESSARY TO VERIFY CONFORMANCE WITH ALL THE CONTRACT DRAWINGS. REPORT ANY INCONSISTENCIES IN WRITING TO THE ARCHITECT BEFORE PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- THE CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS FOR SUCCESSFUL COMPLETION OF THIS PROJECT. ALL FIELDWORK SHALL BE COORDINATED AND CONTINUOUSLY SUPERVISED BY THE CONTRACTOR.
- THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DOES NOT INDICATE THE METHOD OF CONSTRUCTION. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE ONLY AFTER THE BUILDING IS COMPLETE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND SAFETY PROGRAMS DURING THE CONSTRUCTION OPERATIONS OF THE PROJECT. THIS INCLUDES THE DESIGN, INSTALLATION AND REMOVAL OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS TO COMPLETE THE PROJECT. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT. ANY FAILURE TO MAKE PROPER AND ADEQUATE PROVISIONS FOR STRESSES AND STABILITY OCCURRING FROM ANY CAUSE DURING CONSTRUCTION SHALL BE THE SOLE RISK AND RESPONSIBILITY OF THE CONTRACTOR.
- ALL WORK IS TO BE COMPLETED IN ACCORDANCE WITH THE REFERENCED BUILDING CODE, WRITTEN SPECIFICATIONS, AND THE STRUCTURAL DRAWINGS. ALL WORK SHALL BE PERFORMED BY PERSONS QUALIFIED IN THEIR TRADE AND LICENSED TO PRACTICE IN THE STATE WHERE THIS PROJECT IS LOCATED.
- CONTRACTOR TO ADHERE TO ALL APPLICABLE FEDERAL, STATE AND MUNICIPAL LAWS, REGULATIONS AND ORDINANCES, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).

SUBMITTAL NOTES

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS, INCLUDING ANY ADDENDA ITEMS, TO DISTRIBUTE TO ALL SUBCONTRACTORS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS.
- THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR ALL PARTS OF THE WORK. THE SHOP DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH THE EDITION OF THE RESPECTIVE TRADES' CODES OF STANDARD PRACTICE IN EFFECT FOR THIS PROJECT. THE CONTRACTOR SHALL REVIEW AND APPROVE ALL SHOP DRAWING SUBMITTALS PRIOR TO FORWARDING TO THE ARCHITECT. ALL COPIES OF SHOP DRAWINGS SHALL BEAR A STAMP FROM THE CONTRACTOR VERIFYING THEY HAVE REVIEWED AND APPROVED THE SHOP DRAWINGS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. SHOP DRAWINGS NOT BEARING THE CONTRACTOR'S APPROVAL STAMP WILL NOT BE REVIEWED AND SHALL BE RETURNED "NOT REVIEWED." NO PERFORMANCE OF THE WORK INCLUDING, BUT NOT LIMITED TO, DEMOLITION OF EXISTING STRUCTURE, OR FABRICATION OR ERECTION OF NEW STRUCTURAL ELEMENTS, SHALL COMMENCE WITHOUT REVIEW OF THE SHOP DRAWINGS BY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD (SER).
- SUBMITTALS SHALL INCLUDE THE DATE AND ISSUE DESCRIPTION OF THE ARCHITECTURAL AND STRUCTURAL REFERENCE DRAWINGS USED TO PREPARE THEM. SUBMITTALS NOT PREPARED ACCORDING TO THE LATEST ISSUE OF THE CONTRACT DOCUMENTS, OR NOT INDICATING THE REFERENCE DRAWINGS DATE AND ISSUE DESCRIPTION, WILL BE RETURNED "NOT REVIEWED." CONTRACT DRAWINGS SHALL NOT BE REPRODUCED, IN WHOLE OR IN PART, BY THE CONTRACTORS OR THEIR AGENTS FOR THE PREPARATION AND DEVELOPMENT OF SHOP DRAWINGS.
- CONTRACTOR SHALL ISSUE A SUBMITTAL SCHEDULE AT LEAST 30 DAYS PRIOR TO RECEIPT OF THE FIRST SUBMITTAL. SUBMITTAL SCHEDULE SHALL IDENTIFY THE DATE THAT EACH SUBMITTAL WILL BE ISSUED TO THE STRUCTURAL ENGINEER FOR THEIR REVIEW. FAILURE TO SUBMIT THIS SCHEDULE OR TO ISSUE SUBMITTAL ON THE DATES SPECIFIED, MAY IMPACT THE DURATION OF THE SER'S REVIEW.
- THE CONTRACTOR SHALL SUBMIT ONE PAPER COPY AND ONE ELECTRONIC (PDF) COPY OF ALL SUBMITTALS TO THE SER FOR REVIEW. COPIES SHALL BE CLEAR AND LEGIBLE. THE PAPER COPY WILL BE RETAINED BY THE SER, AND THE ELECTRONIC COPY WILL BE MARKED UP AND RETURNED TO THE CONTRACTOR. REFER TO THE PROJECT DRAWINGS AND SPECIFICATIONS FOR SUBMITTALS REQUIRED.
- THE CONTRACTOR SHALL NOT BE RELIEVED OF ANY RESPONSIBILITY FOR ANY DEVIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AS A RESULT OF THE SER'S REVIEW OF THE SUBMITTALS. UNLESS THE CONTRACTOR HAS SPECIFICALLY NOTIFIED THE SER IN WRITING OF THE DEVIATION AND THE SER HAS PROVIDED WRITTEN ACCEPTANCE OF THE DEVIATION. THE CONTRACTOR IS REQUIRED TO CLEARLY IDENTIFY ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS AND INCLUDE REASON FOR DEVIATION WITHIN THE SUBMITTAL.
- MATERIALS REQUIRED BY THE CONTRACT DOCUMENTS AND OMITTED FROM THE SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR FROM FURNISHING THESE MATERIALS REGARDLESS OF WHETHER THE SUBMITTALS HAVE BEEN REVIEWED.
- THE CONTRACTOR SHALL NOT BE RELIEVED FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN ANY SUBMITTAL BY THE SER'S REVIEW THEREOF.
- SUBMITTALS REVIEWED BY THE SER SHALL BE STAMPED AS IDENTIFIED BELOW:
 - REVIEWED-NO EXCEPTIONS: MATERIALS, SIZES, GENERAL ARRANGEMENT AND DETAILS SHOWN APPEAR TO BE IN GENERAL CONFORMANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS.
 - REVIEWED-EXCEPTIONS NOTED: INCLUSION OF CORRECTIONS NOTED WILL RESULT IN SUBMITTAL BEING IN GENERAL CONFORMANCE WITH THE MATERIALS, SIZES, GENERAL ARRANGEMENT AND DETAILS NOTED IN THE CONTRACT DOCUMENTS. RE-SUBMITTAL IS NOT REQUIRED. ALL CORRECTIONS SHALL BE CONSIDERED FULLY UNDERSTOOD UNLESS SPECIFICALLY IDENTIFIED AND COORDINATED WITH THE SER.
 - REVISE & RESUBMIT: INCLUSION OF CORRECTIONS NOTED WILL RESULT IN SUBMITTAL BEING IN GENERAL CONFORMANCE WITH THE MATERIALS, SIZES, GENERAL ARRANGEMENT AND DETAILS NOTED IN THE CONTRACT DOCUMENTS. PORTIONS OF THE SUBMITTAL SPECIFICALLY REQUESTED IN WRITING BY THE SER SHALL BE RE-SUBMITTED FOR REVIEW PRIOR TO FABRICATION, PURCHASE, OR USE.
 - REJECTED: FABRICATION, PURCHASE, OR USE SHALL NOT OCCUR PRIOR TO THE SUBMITTAL BEING REVISED, RE-SUBMITTED, AND REVIEWED BY THE SER AND ALL OTHER PARTIES INVOLVED.
- RE-SUBMITTED SHOP DRAWINGS WILL NOT BE REVIEWED UNLESS ANY AND ALL REVISIONS ARE CLOUDED. ONLY CLOUDED ITEMS WILL BE REVIEWED.

STRUCTURAL STEEL NOTES

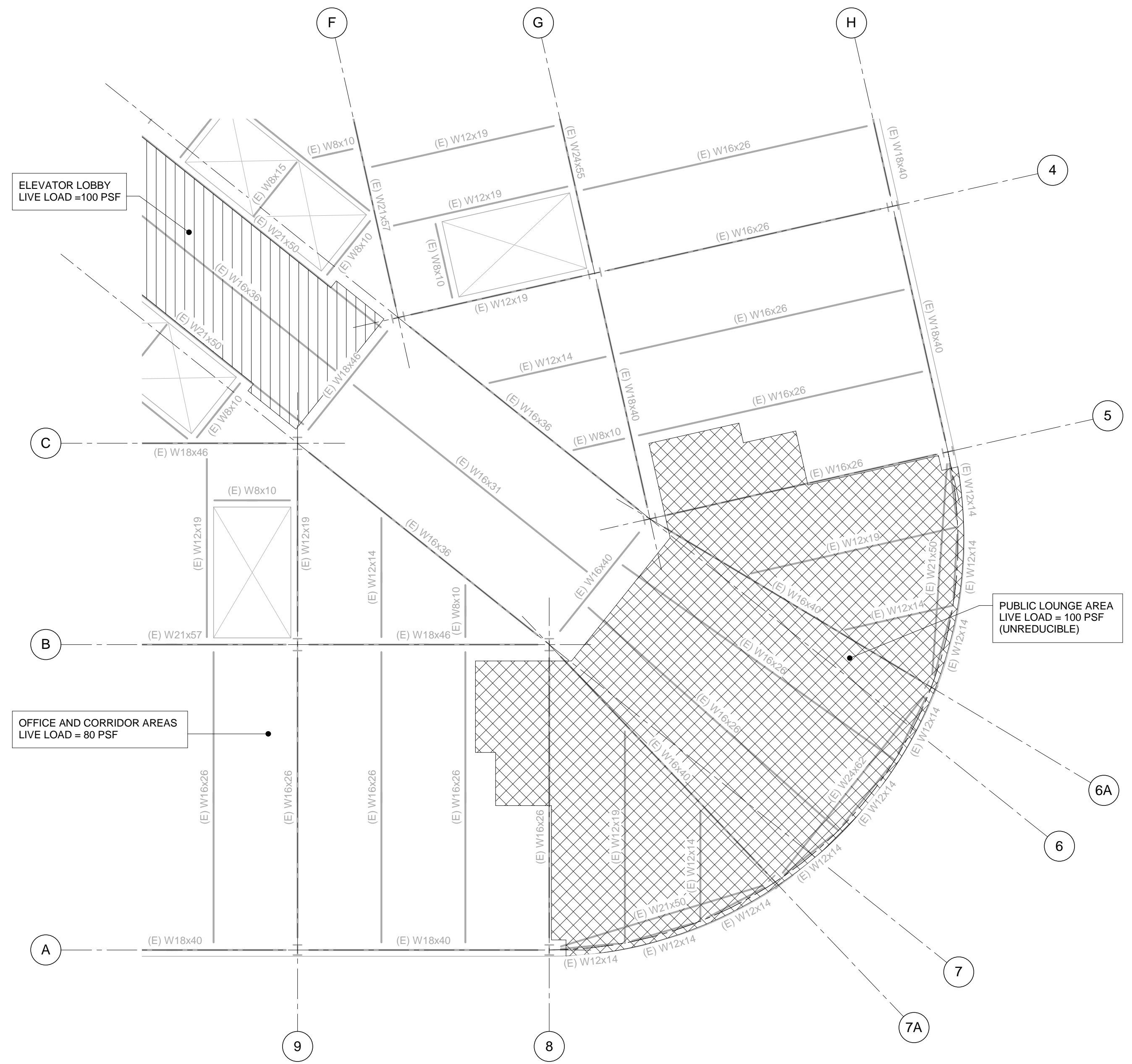
- STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO ANSIAISC 360-05 AND THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", 13TH EDITION.
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED ON STRUCTURAL DRAWINGS:

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| WIDE FLANGE SHAPES: | ASTM A992 |
| PLATES, ANGLES AND CHANNEL SHAPES: | ASTM A36 |
| HSS SQUARE AND RECTANGULAR SHAPES: | ASTM 500, GRADE B (Fy=46 KSI) |
| ROUND PIPE: | ASTM A53, GRADE B |
| ANCHOR RODS : | ASTM F1554, GRADE 36 |
| THREADED RODS: | ASTM A36 |
- THE STEEL FABRICATOR IS RESPONSIBLE FOR ALL CONNECTION DESIGN WHICH HAS NOT BEEN DETAILED ON THE STRUCTURAL DRAWINGS. SUPPORTING CALCULATIONS FOR ALL CONNECTIONS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THIS PROJECT IS LOCATED AND SHALL BE SUBMITTED WITH THE STEEL SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- SHOP AND FIELD CONNECTIONS SHALL BE BOLTED USING ASTM A325 OR A490 HIGH STRENGTH BOLTS OR WELDED USING E70XX ELECTRODES CONFORMING TO AWS REQUIREMENTS. ALL CONNECTIONS SHALL BE DETAILED PER THE FOLLOWING REQUIREMENTS:

COMPOSITE BEAM END CONNECTIONS SHALL BE DESIGNED FOR THE VERTICAL SHEAR REACTIONS INDICATED ON THE FRAMING PLANS. WHERE NO BEAM END REACTION IS INDICATED, CONNECTION IS TO BE DESIGNED FOR A MINIMUM OF 8 KIPS. REACTIONS PROVIDED ARE BASED ON ALLOWABLE LOADS AND ARE SHOWN AS UNFACTORED.

NON-COMPOSITE BEAM CONNECTIONS (BEAMS WITHOUT SHEAR STUDS) SHALL BE DESIGNED FOR ONE-HALF THE BEAM LOAD CAPACITY AS GIVEN IN THE AISC "MAXIMUM TOTAL UNIFORM LOAD TABLES", UNLESS OTHERWISE NOTED.

MOMENT-RESISTING CONNECTIONS SHALL BE DESIGNED TO DEVELOP THE FULL MOMENT CAPACITY OF THE MEMBER, UNLESS INDICATED OTHERWISE BY A "MOMENT REACTION" SHOWN ON THE FRAMING PLANS.
- SLIP CRITICAL (SC) CONNECTIONS SHALL BE PROVIDED AT ALL BRACED FRAMES, MOMENT RESISTING FRAMES, BRICK RELIEVING ANGLES AND AS INDICATED ON THE STRUCTURAL DRAWINGS. PREPARATION OF FAYING SURFACES AND TENSIONING OF SLIP CRITICAL BOLTS SHALL BE IN ACCORDANCE WITH THE RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."
- FIELD CUTTING OR ANY FIELD MODIFICATIONS TO THE STRUCTURAL STEEL SHALL NOT BE MADE WITHOUT PRIOR WRITTEN DIRECTION BY THE STRUCTURAL ENGINEER OF RECORD. TORCH CUTTING IN THE FIELD IS NOT ALLOWED. ANY FIELD CUTS TO THE STRUCTURAL STEEL SHALL BE GROUND SMOOTH.
- ALL STEEL MEMBERS MUST BE CUT FROM FULL LENGTH STOCK. UNAUTHORIZED SPLICES WILL BE CAUSE FOR REJECTION.
- PROVIDE MINIMUM 3/8" THICK FITTED STIFFENER PLATES ON EACH SIDE OF BEAM WEB WHERE BEAMS FRAME OVER COLUMNS AND WHERE BEAMS SUPPORT HANGERS OR COLUMNS ABOVE.
- SUB-BASE (LEVELING) PLATES UNDER COLUMN BASE PLATES WILL NOT BE ALLOWED, UNLESS OTHERWISE NOTED ON THE STRUCTURAL PLANS.
- WHERE BEAMS BEAR ON MASONRY OR CONCRETE, PROVIDE MINIMUM 1/2" THICK STEEL BEARING PLATES UNLESS NOTED OTHERWISE.
- PROVIDE ALL MISCELLANEOUS STEEL ANGLES, PLATES, ANCHORS, BOLTS, ETC., AS SHOWN ON ARCHITECTURAL DRAWINGS FOR SUPPORT OF BLOCKING, PARAPETS, FINISHES, ETC. COORDINATE ITEMS WITH THE MISCELLANEOUS METAL FABRICATOR TO ENSURE COMPLETE COVERAGE OF ALL ITEMS.
- PROVIDE METAL DECK AND SLAB SUPPORT ANGLES AS REQUIRED AT COLUMNS WHERE STRUCTURAL BEAM MEMBERS DO NOT FRAME IN AT ALL FOUR SIDES.
- CAMBER BEAMS, AS REQUIRED, TO PROVIDE THE "CAMBERS" INDICATED ON THE FRAMING PLANS, COMPENSATING FOR ANY RELEASE OF STRESS INDUCED DURING THE CAMBERING OPERATION.
- SIMPLE SPAN BEAMS WITHOUT SPECIFIED "CAMBERS" SHALL BE FABRICATED SUCH THAT, AFTER ERECTION, ANY MINOR CAMBER DUE TO ROLLING OR SHOP ASSEMBLY SHALL BE UPWARD.
- ALL NEW STRUCTURAL STEEL SHALL BE SHOP PRIMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, UNLESS NOTED OTHERWISE. OMIT SHOP PRIMER FROM ALL CONNECTIONS TO BE FIELD WELDED. TOUCH-UP ALL SHOP PRIMED COATS DAMAGED DURING TRANSPORTATION AND ERECTION, AND PRIME ALL FIELD WELDS, USING THE SAME PAINT USED FOR SHOP PRIMING.
- ALL STRUCTURAL STEEL TO RECEIVE SPRAY APPLIED FIREPROOFING SHALL BE FABRICATED WITHOUT ANY SHOP PRIMER.
- ALL STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED PER ASTM A123 SPECIFICATION.
- DO NOT ENCASE ANY STRUCTURAL STEEL IN FIREPROOFING OR CONCRETE UNTIL AN INSPECTION HAS BEEN MADE AND THE WORK HAS BEEN ACCEPTED.
- PROVIDE TEMPORARY ERECTION BRACING TO RESIST ALL LATERAL LOADS AND HOLD STRUCTURAL STEEL SECURELY IN POSITION UNTIL ALL PERMANENT BRACING HAS BEEN INSTALLED AND CONSTRUCTION TOLERANCES HAVE BEEN ACHIEVED.



LOAD CRITERIA PLAN - LEVEL 8 FRAMING
SCALE: 1/8" = 1'-0"

DESIGN INFORMATION

- THE STRUCTURE IS DESIGNED TO CARRY THE FOLLOWING LIVE LOADS, IN ADDITION TO ALL THE DEAD LOADS OF THE VARIOUS SYSTEMS AS PROVIDED TO THE STRUCTURAL ENGINEER AT THE TIME OF THE ISSUANCE OF THESE DRAWINGS, IN CONFORMANCE WITH THE APPLICABLE REQUIREMENTS OF THE FOLLOWING STANDARDS:
 - 2009 INTERNATIONAL BUILDING CODE (IBC)
 - 2009 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
 - ASCE 7-05 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"
- FLOOR DEAD LOADS: ESTIMATED SELF-WEIGHT OF STRUCTURE AND ANY COMPONENTS OR FIXTURES CONSIDERED PERMANENT.
- FLOOR LIVE LOADS: MINIMUM BUILDING FLOOR LIVE LOADS AS GOVERNED BY THE BUILDING CODE OR AS DESIGNATED ON THE EXISTING BUILDING CONSTRUCTION DOCUMENTS, WHICHEVER IS GREATER:
 - OFFICE AREAS..... 80 PSF + 20 PSF PARTITION LOAD
 - PUBLIC LOUNGE AREA..... 100 PSF (UNREDUCIBLE)
 - STAIRS, LOBBIES..... 100 PSF
 - CORRIDORS ABOVE 1ST LEVEL..... 80 PSF
- STRUCTURAL RENOVATIONS OR ALTERATIONS TO THE EXISTING BUILDING STRUCTURE HAS BEEN DETERMINED PER 2009 IEBC, SECTIONS 707.4 AND 707.5, TO HAVE NO IMPACT ON THE LOAD-CARRYING CAPACITY OF THE EXISTING FLOOR FRAMING MEMBERS AND LATERAL FRAME SYSTEM OF THE BUILDING.



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GENERAL NOTES AND LOAD CRITERIA

Scale: 1/8" = 1'-0"
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