

STRUC ABBREVIATIONS	
+/	PLUS OR MINUS
A.R	ANCHOR ROD
ADDNL	ADDITIONAL
ADJ	ADJACENT
AESS	ARCHITECTURALLY EXPOSED STRUC STL
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ARCH	ARCHITECT OR ARCHITECTURAL
B/	BOTTOM OF
B/W	BETWEEN
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BRG	BEARINGS
CF	COLD FORMED METAL FRAMING
CHKD	CHECKED
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CTR	CENTER
db	DIA OF REINF BAR, DIA OF BOLT
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DIA	DIAMETER
DIAG	DIAGONAL
DIR	DIRECTION
DWL	DOWEL
EA	EACH
EE	EXTENDED END
EJ	EXPANSION JOINT
EL	ELEVATION
ENGR	ENGINEER
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
EQP	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
EXT	EXTERIOR
F.V	FIELD VERIFY
FLG	FLANGE
FLR	FLOOR
FND	FOUNDATION
FS	FAR SIDE
FTG	FOOTING
G.C.	GENERAL CONTRACTOR
GA	GAGE
GALV	GALVANIZED
GB	GRADE BEAM
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSS	HOLLOW STRUCTURAL SECTION
IF	INSIDE FACE
INT	INTERIOR

STRUC ABBREVIATIONS	
JST	JOIST
k	KIPS (1000 LBS)
LCE	COMPRESSION EMBEDMENT LENGTH
LCS	COMPRESSION LAP SPLICE LENGTH
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LTE	TENSION EMBEDMENT LENGTH
LTS	TENSION LAP SPLICE LENGTH
LW	LIGHTWEIGHT
MAS	MASONRY
MATL	MATERIAL
MFCR	MANUFACTURER
MTL	METAL
NIC	NOT IN CONTRACT
NS	NEAR SIDE
NS	NON-SHRINK
NTS	NOT TO SCALE
O.F.	OUTSIDE FACE
OC	ON CENTER
OPP	OPPOSITE
OVS	OVERSIZED
P/C	PRECAST
PAF	POWDER ACTUATED FASTENER
PEN	PENETRATION
PL	PLATE
PLF	POUNDS PER LINEAL FOOT
PMB	PRE-ENGINEERED METAL BUILDING
PREFAB	PREFABRICATED
PRELIM	PRELIMINARY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R.F.	RIGID FRAME
RC	REINFORCED CONCRETE
RE, OR REF	REFER TO
REINF	REINFORCING
REQD	REQUIRED
SC	SLIP CRITICAL
SDS	SELF DRILLING SCREW
SIM	SIMILAR
SLV	SHORT LEG VERTICAL
SOG	SLAB ON GRADE
SO	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STIR	STIRRUPS
STL	STEEL
SW	SHEAR WALL
SYM	SYMMETRIC
T&B	TOP AND BOTTOM
T/	TOP OF
TOS	TOP OF STEEL
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
WF	WIDE FLANGE
WP	WORK POINT
WWF	WELDED WIRE FABRIC

STRUCTURAL GENERAL NOTES:

- DESIGN AND CONSTRUCTION SHALL CONFORM TO THE "INTERNATIONAL BUILDING CODE, 2012 EDITION". REFER TO THE SPECIAL STRUCTURAL INSPECTION NOTES FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR TO VERIFY ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY.
- IF DISCREPANCIES EXIST BETWEEN STRUCTURAL PLANS, ARCHITECTURAL PLANS, OTHER PLANS, OR SPECIFICATIONS, THE CONTRACTOR OR SUBCONTRACTOR SHALL PROVIDE A WRITTEN REQUEST FOR CLARIFICATION FROM THE ARCHITECT AND/OR ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO EXECUTE AND DETERMINE FINAL ERECTION PROCEDURES, SEQUENCING AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYING OR TIE DOWNS WHICH MIGHT BE NECESSARY.
- THE STRUCTURE AND FOUNDATIONS ARE NOT DESIGNED FOR FUTURE EXPANSION.
- FABRICATORS AND SUPPLIERS SHALL CLEARLY NOTE AND HIGHLIGHT CHANGES MADE IN SHOP DRAWINGS, WHICH DO NOT COMPLY WITH THE CONTRACT DOCUMENTS.
- COLUMNS, BEAMS, JOISTS, OR TRUSSES SHALL NOT BE FIELD CUT OR TRIMMED FOR ANY REASON WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
- HOLES, PIPES, SLEEVES, ETC. NOT SHOWN ON THE DRAWINGS MUST BE REVIEWED BY THE ARCHITECT BEFORE PLACEMENT THROUGH STRUCTURAL MEMBERS.
- IF MECHANICAL AND ELECTRICAL EQUIPMENT SIZES, WEIGHTS, OR LOCATIONS DO NOT COINCIDE WITH EQUIPMENT SHOWN ON THE PLANS, COORDINATE ADJUSTMENTS WITH THE ARCHITECT.
- NO AREA OF THE STRUCTURE SHALL BE LOADED WITH CONSTRUCTION MATERIALS OR EQUIPMENT THAT EXCEEDS FINAL DESIGN CRITERIA.
- BEAMS, COLUMNS, WALLS AND FOOTING CENTERS SHALL BE CENTERED UNDER SUPPORTING MEMBERS (TYPICAL UNLESS NOTED).
- FOR DEFERRED SUBMITTALS (EXAMPLES: PRE-ENGINEERED CANOPIES, WOOD TRUSSES, PRECAST CONCRETE ELEMENTS, COLD FORMED FRAMING), SHOP DRAWINGS AND CALCULATIONS SEALED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE JURISDICTION OF THE PROJECT SHALL BE FURNISHED TO THE ENGINEER OF RECORD FOR REVIEW.
- TYPICAL DETAILS ARE SHOWN ON SHEETS DESIGNATED "S0XX". THE INCLUDED TYPICAL DETAILS MAY OR MAY NOT BE CUT / REFERENCED ON PLANS OR SECTIONS, BUT ARE TO BE USED AS APPLICABLE.

CAST IN PLACE CONCRETE:

- SUBMIT PROPOSED MIXED DESIGNS OF EACH TYPE FOR REVIEW. REQUIRED MINIMUM CONCRETE COMPRESSIVE STRENGTHS AT 28 DAYS:
 - FOOTING AND GRADEBEAM CONCRETE.....4000 PSI
 - REINFORCED / FOUNDATION WALL CONCRETE.....4000 PSI
 - SLAB ON GRADE AND STRUC SLAB ABOVE GRADE.....4000 PSI
- ALL CONCRETE MIX DESIGNS SHALL HAVE WATER TO CEMENT RATIOS LESS THAN 0.52, WITH A MAXIMUM 60/40 FINE TO COARSE AGGREGATE RATIO. CONCRETE MIX DESIGNS THAT DO NOT CONFORM TO THE ABOVE STANDARD AND/OR CONTAIN WATER REDUCING ADMIXTURES SHALL BE SUBMITTED WITH APPROPRIATE TEST DATA PER A.C.I. ALL CONCRETE SHALL BE IN CONFORMANCE WITH THE LATEST A.C.I. 301 STANDARDS PUBLICATION.
- LIGHTWEIGHT CONCRETE SHALL HAVE A MAXIMUM DRY UNITY WEIGHT OF 118 PCF.
- EXTERIOR CONCRETE (FLOOR SLABS, WALLS, ETC) SHALL HAVE 6% (PLUS/MINUS 1%) ENTRAINED AIR.
- CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" (VERIFY WITH ARCHITECT).
- NO ALUMINUM SHALL BE EMBEDDED IN ANY CONCRETE.
- NO CALCIUM CHLORIDE SHALL BE USED IN CONCRETE.
- THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL CONCRETE IS REINFORCED UNLESS SPECIFICALLY NOTED AS UNREINFORCED. REINFORCE ALL CONCRETE NOT OTHERWISE SHOWN WITH THE SAME REINFORCING AS SIMILAR SECTIONS OR AREAS.
- CONSTRUCTION JOINTS IN GRADE BEAMS, CONTINUOUS FOOTINGS, AND WALLS THAT DO NOT CHANGE DIRECTION SHALL BE SPACED NO GREATER THAN 80'-0" IN INTERMEDIATE CONTROL JOINTS SHALL BE SPACED AT 25'-0" MAX FOR WALLS. CONTROL JOINTS IN WALLS SHALL ALSO BE LOCATED 15'-0" FROM CORNERS AND AT CHANGES IN WALL THICKNESS.
- WHERE FRESH CONCRETE IS DEPOSITED AGAINST HARDENED CONCRETE (GREATER THAN 8 HRS OLD), CLEAN EXISTING SURFACE OF LAITANCE AND FOREIGN MATERIAL AND DAMPEN THE EXISTING SURFACE. IF REQUIRED, ROUGHEN EXISTING CONCRETE TO 1/4" AMPLITUDE.
- SLABS ON GRADE SHALL BE 4" THICK MINIMUM ON 4% GRANULAR FILL. REINF SLAB WITH 6 X 6-W2 1 W.W.F. OR #3 BARS @ 18" O.C. EA WAY. PLACE REINF IN UPPER 1/3 OF SLAB THICKNESS. AT INTERIOR SLABS, A 10 MIL VAPOR BARRIER SHALL BE PLACED BETWEEN CONCRETE AND GRANULAR BASE AND CARE SHOULD BE TAKEN TO PREVENT CURING TO PREVENT SLAB CURLING. THIS NOTE SHALL BE TYPICAL UNLESS NOTED OTHERWISE.
- SAW CUT JOINTS OR KEYS AT CONSTRUCTION JOINTS IN SLABS ON GRADE SHALL BE SPACED TO DIVIDE THE SLAB INTO PANELS NOT TO EXCEED 225 SQUARE FEET. THE LONGER DIMENSION OF EACH PANEL SHALL NOT EXCEED THE SHORTER DIMENSIONS BY MORE THAN 10%. PANELS SHALL BE LOCATED AT COLUMN CENTERLINES WHERE POSSIBLE. CONTRACTOR SHALL SUBMIT JOINT LAYOUT TO ARCHITECT FOR APPROVAL. REFER TO TYP DETAIL RC-001A.
- REINFORCEMENT SHALL BE CONTINUOUS AND LAPPED #3 BAR DIAMETERS (MINIMUM) EXCEPT WHERE NOTED. PROVIDE CORNER BARS OF SAME SIZE AND SPACING.
- MINIMUM CONCRETE WALL REINFORCING (WALL 10" OR GREATER) SHALL BE #5 AT 10" O.C. EACH WAY, EACH FACE.
- MINIMUM REINFORCING AROUND CONCRETE WALL OPENINGS 2'-0" OR GREATER (TYPICAL UNLESS NOTED): 2-#5, EXTEND REINF 2'-0" PAST OPENINGS. PROVIDE 2-#5 X 4'-0" DIAGONAL BARS AT CORNERS.
- CONTRACTOR SHALL COORDINATE ALL CURING COMPOUNDS WITH FLOOR FINISH REQUIREMENTS TO ENSURE COMPATIBILITY.
- FOUNDATION CONTRACTOR TO ENSURE PROPER ANCHOR ROD PROJECTION AND THAT ANCHOR RODS ARE HELD SECURELY IN POSITION PRIOR TO CONCRETE PLACEMENT. INSTALL ANCHOR RODS TO THE STRICT DIMENSIONAL TOLERANCES PER AISC REQUIREMENTS. STRUCTURAL STEEL COLUMN ANCHOR RODS SHALL BE SET WITH A RIGID TEMPLATE.
- AGGREGATES AND/OR CONCRETE MIXES SHALL BE CERTIFIED TO BE FREE OF AND ELIMINATE DAMAGE OF CONCRETE DUE TO ALKALI-SILICA REACTION OR ALKALI-AGGREGATE REACTIONS WHEN EXPOSED TO SOILS AND/OR AN EXTERIOR ENVIRONMENT.

STRUCTURAL STEEL:

- SUBMIT SHOP DRAWINGS FOR STEEL. STRUCTURAL STEEL SHAPES AND PLATE MATERIAL REQUIREMENTS (TYPICAL UNLESS NOTED OTHERWISE):
 - WIDE FLANGE SHAPES - ASTM A992 (FY = 50 KSI MIN.)
 - CHANNELS, ANGLES, AND PLATES - ASTM A36 (FY = 36 KSI MIN.)
 - ROUND HSS - ASTM A500, GR B (FY = 42 KSI)
 - RECTANGULAR HSS - ASTM A500, GR B (FY = 46 KSI)
 - PIPE - ASTM A53, GR B (FY = 35 KSI)
 - ANCHOR RODS - ASTM F1554 (FY = 36 KSI MIN.)
- STRUCTURAL STEEL SHALL BE NEW AND MEET THE 13TH EDITION A.I.S.C. "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS AND BRIDGES", AND THE "CODE OF STANDARD PRACTICES FOR STEEL BUILDINGS AND BRIDGES", EXCLUDING SECTION 4.4.1.B.
- THE STRUCTURAL STEEL FABRICATOR SHALL BE AN AISC QUALITY CERTIFIED COMPANY FOR THE CATEGORY OF WORK IN THIS PROJECT OR PROVIDE A QUALITY ASSURANCE PLAN AND SPECIAL INSPECTIONS AS DEFINED IN THE CODE.
- USE STANDARD AISC FRAMING CONNECTIONS WITH A325-N BOLTS AND WASHERS AS REQUIRED, UNLESS NOTED OTHERWISE.
- BOLTS IN MOMENT AND BRACED FRAME CONNECTIONS SHALL BE PRE-TENSIONED. ALL A490 BOLTS SHALL BE PRE-TENSIONED. OTHER BOLT CONNECTIONS USING A325 BOLTS MAY BE PRE-TIGHTENED, UNLESS NOTED OTHERWISE.
- STEEL BEAMS SHALL BE FABRICATED WITH 1/8" CAMBER UP.
- WELDING SHALL CONFORM TO THE CURRENT AISC APPLICATION A558 STANDARDS AND COMPLETED BY A WELDER CERTIFIED WELDER. ALL WELDS SHALL UTILIZE ELECTRODE SHOWN IN SHOP DRAWINGS. ALL SHOWN WELDS, AS APPLICABLE:
 - AWS D11 - STRUCTURAL WELDING - CARBON STEEL
 - AWS D1.3 - STRUCTURAL WELDING CODE - SHEET STEEL
 - AWS D10.9 - STRUCTURAL WELDING CODE - STAINLESS STEEL
- WELD SIZE SHALL BE INCREASED TO MEET THE REQUIRED EFFECTIVE THICKNESS. GAPS EXIST AT THE FAYING SURFACE.
- NO COLUMN OR BEAM SPLICES, UNLESS CLEARLY INDICATED ON THE STRUCTURAL DRAWINGS, WILL BE ALLOWED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
- SEE ARCHITECTURAL PLANS FOR FIREPROOFING & FINISHING REQUIREMENTS, AND COORDINATE STEEL PRIMEING & COATINGS ACCORDINGLY.
- GROUT WHERE INDICATED ON PLANS AT BASE PLATES SHALL BE NON-METALLIC NON-SHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI AT 28 DAYS CONFORMING TO ASTM C1107.
- ALL POST-INSTALLED ANCHORS WHERE NOTED SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE OR HILLI, INC. AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS. SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL WITH APPROPRIATE I-CES EVALUATION REPORTS.

LIGHT GAGE STRUCTURAL STEEL FRAMING NOTES:

- SUBMIT SHOP DRAWINGS FOR CMF. LIGHT GAGE FRAMING MEMBERS SHALL HAVE THE FOLLOWING MINIMUM MATERIAL PROPERTIES: FY = 33 KSI FOR 18 GA AND LIGHTER MEMBERS, 50 KSI FOR ALL DIAGONAL STRAP BRACING AND FOR 16 GA AND HEAVIER MEMBERS. ALL MATERIALS, CONNECTORS, FASTENERS SHALL BE GALVANIZED.
- ALL DESIGN, FABRICATION, AND ERECTION SHALL BE IN CONFORMANCE WITH AISC "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS". LATERAL LOAD DEFLECTION LIMITATION SHALL BE LIMITED TO 1/600 OF THE SPAN AT LOCATIONS LATERALLY RESTRICTED BY MASONRY, MASONRY TILE, STONE OR CERAMIC PRODUCTS.
- ALL EXTERIOR OR LOAD BEARING INTERIOR STUDS SHALL BE 600S162-43 (6" DEEP 16" SPACING 16 INCHES ON CENTER UNLESS NOTED; REFER TO PLANS).
- MINIMUM GAGE OF STRUCTURAL STUDS SHALL BE 43 MILS (18 GAGE), UNLESS NOTED. TRUSSES SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE TO PROPERLY TRANSFER IMPOSED LOADS. MINIMUM GAGE OF TRACKS SHALL BE 43 MILS (18 GAGE). DEFLECTION TRACKS AT EXTERIOR WALLS SHALL BE 16 GA MINIMUM.
- PROVIDE WALL STUD BRIDGING FOR EACH STUD AS RECOMMENDED BY THE MANUFACTURER. MAXIMUM SPACING SHALL BE 4'-0" CENTERS.
- ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENTS TO PERPENDICULAR MEMBER. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED.
- NOTCHES OR SPLICES IN ANY STRUCTURAL STUDS WILL NOT BE PERMITTED.
- DO NOT NOTCH, DRILL OR CUT ANY HOLES IN LOAD BEARING STUDS FOR ELECTRICAL OR MECHANICAL EQUIPMENT; USE EXISTING FABRICATED HOLES.
- ALL WELDING SHALL BE PERFORMED BY WELDERS EXPERIENCED IN LIGHT GAGE STEEL FRAMING WORK. TOUCH UP ALL WELDS WITH GALVANIZE COATING.
- SCREWS IN LIGHT GAGE FRAMING SHALL BE INSTALLED WITH MINIMUM EDGE DISTANCES OF 1/2" AND MINIMUM SPACING BETWEEN SCREWS OF 3/4".
- WHERE BACK-TO-BACK STUD COLUMNS ARE USED, ATTACH WITH #10 SCREWS @ 12" O.C. MAX. UNO.
- FLOOR JOISTS SHALL BE ALIGNED WITH AND STACKED DIRECTLY ON SUPPORTING STUDS.
- INSTALL WEB STIFFENERS IN ENDS OF ALL FLOOR JOISTS, AT ALL BEARING POINTS.
- LATERAL BRACING MUST BE IN PLACE IN EACH DIRECTION BEFORE ANY LOAD IS APPLIED TO THE WALLS & LEFT IN PLACE UNTIL THE WORK IS PERMANENTLY STABILIZED.
- PROVIDE FULL-DEPTH BLOCKING BETWEEN EACH JOIST AT BEARINGS OF CANTILEVERE JOISTS.
- BRACE THE BOTTOM FLANGES OF JOISTS LONGER THAN 10' SPANS AT MIDSPAN OR SPACES NOT EXCEEDING 11' APART, CONSISTING OF STRAP BRACING CONTINUOUS & INTERMITTENT FULL-DEPTH BLOCKING @ 12" O.C. & EACH STRAP TERMINATION.
- AT CANTILEVERS, HOLES ARE PROHIBITED FROM WEBS OF JOISTS AT OVERHANGS.

NON-LOAD BEARING LIGHT GAGE STEEL FRAMING NOTES:

- METAL STUD MANUFACTURERS GENERALLY RECOMMEND HORIZONTAL BRIDGING OR STRAPPING TO BE PROPERLY INSTALLED AT 5 FT TO 6 FT O.C. MECHANICALLY ATTACHED TO EACH STUD TO PREVENT DAMAGE DURING CONSTRUCTION, EVEN IF ONE SIDE OR BOTH SIDES ARE TO BE SHEATHED WITH RIGID FACING MATERIALS.
- WHEN RIGID FACING MATERIALS ARE NOT ATTACHED TO EITHER SIDE, SUCH AS ABOVE CEILINGS, HORIZONTAL BRIDGING OR STRAPPING AT EACH FACE SHALL BE INSTALLED.
- WHERE THE TOP OF THE STUD WALLS TERMINATE AGAINST PRIMARY STRUCTURAL FRAMING, A "DEFLECTION TRACK" SHOULD BE USED TO ALLOW FOR VERTICAL MOVEMENT. ONE ROW OF THE RECOMMENDED HORIZONTAL BRIDGING SHALL BE PROPERLY INSTALLED BY MECHANICAL ATTACHMENTS TO EACH STUD AS CLOSE TO THE TOP AS POSSIBLE. ANY TEMPORARY SCREWS FROM THE TOP DEFLECTION TRACK TO THE METAL STUDS SHALL BE REMOVED AS SOON AS POSSIBLE TO ALLOW VERTICAL DEFLECTION OF THE PRIMARY FRAMING AND TO PREVENT DAMAGE TO THE STUD WALL. METAL STUDS SHOULD NEVER BE ATTACHED DIRECTLY TO HORIZONTAL STRUCTURAL FRAMING SYSTEMS WITHOUT A DEFLECTION TRACK OR VERTICALLY SLOTTED.

STRUCTURAL DESIGN CRITERIA (2012 IBC AND ASCE 7-10):

- BUILDING OCCUPANCY RISK CATEGORY II.
- LIVE LOADS [UNIFORM (PSF) / POINT LOADS (KIPS)]
 - ROOF.....20 PSF / 300#
 - OFFICES.....50 PSF + 15 PSF PARTITIONS / 2.0 K
 - UPPER LEVEL CORRIDORS.....80 PSF / 2.0 K
 - GROUND LEVEL SLABS.....100 PSF / 2.0 K
 - STAIRS.....100 PSF / 300#
 - LOBBIES.....100 PSF / 2.0 K
 - DINING / RETAIL.....100 PSF / 1.0 K
 - RESIDENTIAL / HOTEL / DECK.....40 PSF + PARTITIONS
- EARTHQUAKE DESIGN DATA
 - SEISMIC IMPORTANCE FACTOR (Ie).....1.0
 - MAPPED SPECTRAL RESP ACCEL (Ss / S1).....0.12 / 0.07
 - SITE CLASS.....D
 - SPECTRAL RESPONSE COEFF (Sds / Sd1).....0.13 / 0.11
 - SEISMIC DESIGN CATEGORY.....I
 - SEISMIC FORCE RESISTING SYSTEM.....SHEAR WALL
 - DESIGN BASE SHEAR.....15 K
 - SEISMIC RESPONSE COEFF (Cs).....0.043
 - ANALYSIS PROCEDURE.....ELF
- GUARD RAILS.....50 PLF, AND/OR 200# CONCENTRATED LOAD APPLIED IN ANY DIRECTION.

SPECIAL INSPECTIONS:

- PROVIDE SPECIAL STRUCTURAL INSPECTIONS AND VERIFICATIONS BY A THIRD PARTY MEETING THE REQUIREMENTS OF CHAPTER 17 OF THE BUILDING CODE AND THE BUILDING OFFICIAL.
- SPECIAL INSPECTORS SHALL BE QUALIFIED AND FURNISH THEIR REPORTS IN A TIMELY MANNER TO THE CONTRACTOR, BUILDING OFFICIALS, ARCHITECT, AND/OR ENGINEER.
- SHOULD INSPECTOR IDENTIFY ANY DISCREPANCY, THEY SHALL NOTIFY CONTRACTOR FIRST, AND THEN ARCHT/ ENGINEER IMMEDIATELY THEREAFTER IF CORRECTIVE ACTION IS NEEDED.
- SPECIAL INSPECTIONS AS REQUIRED BY CODE:
 - STEEL: SECTION 1705.2, AISC 360, AND TABLE 1705.2.2. PERIODIC OBSERVATIONS OF CONNECTION, ALL BRACED-FRAME CONNECTIONS, WELDERS & FIELD WELDING.
 - CONCRETE: SECTION 1705.3 AND TABLE 1705.3. CONCRETE MATERIAL SAMPLING AND TESTING, REBAR OBSERVATIONS. TAKE SET OF (3) CYLINDERS FOR EVERY 50 C.Y., BUT NOT LESS THAN ONE SET OF SAMPLES PER DAY'S WORK AND PER MIX.
 - EARTHWORK: FOUNDATION BEARING, EXCAVATION, FILL PLACEMENT.

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RELATED DOCUMENTS: This Drawing may be part of an integrated set of Construction Documents, including the Contract Agreement, the General and Supplemental Conditions of the Contract, Division-01 "General Requirements", and applicable "Technical Specification Sections". The Contract Documents are complementary; what is required by one is as binding as if required by all. Other documents affecting the Work may include Geotechnical recommendations, Manufacturer's Product Data and installation requirements, Shop Drawings and Coordination Drawings. Failure to review applicable documents does not reduce the obligation to provide complete and operational building components.

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SEAL

 01/12/2018

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95% CDS	12.22.2017
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STRUCTURAL GENERAL NOTES
S001