

# STRUCTURAL NOTES:

## GENERAL NOTES:

- 1) THE CONTRACTOR SHALL REVIEW ALL DOCUMENTS AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND SHALL CONFORM THAT WORK IS BUILDABLE AS SHOWN. IN CASES OF OMISSIONS, ETC., SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER FOR CLARIFICATION PRIOR TO THE PERFORMANCE OF ANY WORK IN QUESTION.
  - 2) DO NOT SCALE DRAWINGS. WRITING DIMENSIONS GOVERN ALL PLOTTING LOCATIONS. ALL DOOR AND OPENING LOCATIONS SHALL BE ON FLOOR PLAN. IN CASE OF CONFLICT, NOTIFY THE ENGINEER IN WRITING. ARCHITECTURAL FLOOR PLAN SUPERSEDES OTHER PLANS. ALL DIMENSIONS MARKED "CLEAR" SHALL BE MAINTAINED AND SHALL ALLOW FOR THICKNESS OF ALL FINISHES INCLUDING CARPET, PAO, TILE, VINYL, MANSOOT, ETC.
  - 3) CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS AND PAY NECESSARY FEES AND CERTIFICATES.
  - 4) IT IS THE CONTRACTOR'S RESPONSIBILITY TO FURNISH AND INSTALL ALL WORK, FIXTURES AND EQUIPMENT NECESSARY TO COMPLETE PROJECT AS PER PLANS. THE CONTRACTOR IS TO DELIVER PROJECT CLEAN AND READY FOR USE AS APPROVED BY OWNER.
  - 5) ALL REQUESTS FOR SUBSTITUTIONS OF ANY SPECIFIED ITEMS SHALL BE SUBMITTED IN WRITING BY THE GENERAL CONTRACTOR. ITEMS WILL BE CONSIDERED ONLY IF THE ALTERNATE PROPOSE IS PROVEN TO BE MORE ADVANTAGEOUS TO THE OWNER WITH RESPECT TO DELIVERY DATE, QUALITY, OR COST. UNDER NO CIRCUMSTANCES WILL THE ENGINEER BE REQUIRED TO PROVE THAT A PRODUCT PROPOSED FOR SUBSTITUTION IS OR IS NOT OF EQUAL QUALITY TO THE PRODUCT SPECIFIED.
  - 6) PERFORM ALL WORK IN ACCORDANCE WITH ACCEPTED CONSTRUCTION STANDARDS. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE PLANS AND SPECIFICATIONS UNLESS A VARIANCE IS APPROVED BY THE OWNER AND OR ENGINEER.
  - 7) ALL WORK PERFORMED SHALL BE IN STRICT COMPLIANCE WITH GOVERNING FEDERAL, STATE, AND LOCAL BUILDING CODE REQUIREMENTS, EXECUTED IN ACCORDANCE WITH ACCEPTED INDUSTRY STANDARDS AND SHALL CONFORM TO SPECIFIC REGULATIONS AS MANDATED BY THE OWNER, THE TENANT, AND THE ENGINEER.
- GENERAL STRUCTURAL NOTES:
- 1) ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRIED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.
  - 2) WORK STRUCTURAL DRAWINGS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. GENERAL CONTRACTOR SHALL INSTALL REQUIRED OPENINGS IN SLABS.
  - 3) ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
  - 4) ANY CONDTION ENCOUNTERED NOT CONSISTENT WITH THESE DRAWINGS SHOULD BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.
- DESIGN CRITERIA:
- DESIGN CODES: (CONTRACTOR'S WORKMANSHIP, DETAILS AND DESIGN TO BE GOVERNED BY FOLLOWING CODES)
- BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318), AMERICAN INSTITUTE OF STEEL CONSTRUCTION, (AISC) LATEST EDITION
- STEEL JOIST INSTITUTE
- INTERNATIONAL BUILDING CODE 2003 EDITION
- STEEL DECK INSTITUTE SPECIFICATIONS LATEST EDITION
- SPECIFICATIONS FOR MASONRY STRUCTURES: LATEST EDITION.
- AMERICAN IRON & STEEL INSTITUTE GR02-1
- STEEL STUD MANUFACTURER'S ASSOCIATION - ICBO EC-4943P
- DESIGN LIVE LOADS:
- LIVE LOADS
- FLOORS: 40 PSF FOR ROOMS & CORRIDORS SERVING ROOMS
- 100 PSF FOR PUBLIC ROOMS
- 100 PSF MECHANICAL ROOMS
- ROOF: 20 PSF
- ROOF SNOW LOAD: 10 PSF
- WIND
- MINIMUM WIND SPEED: 90 MPH
- WIND IMPORTANCE FACTOR: II
- WIND EXPOSURE: C
- INTERNAL PRESSURE COEFFICIENT : ±0.18
- NET DESIGN WIND PRESSURES COMPONENTS AND CLADDING
- | ZONE 1 | ZONE 2 | ZONE 3 |
|--------|--------|--------|
| +7/6   | -21/5  | +7/6   |
| -23/6  | +7/6   | -23/6  |
- WALL
- | ZONE 4 | ZONE 5 |
|--------|--------|
| +17/7  | -21/7  |
| -21/7  | +17/7  |
- ALL VALUES ARE PSF
- + AND - DESIGNATIONS INDICATE PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES RESPECTIVELY
- SEE ASCE 7-02, FIGURE 6-17 FOR ZONE DESIGNATIONS
- SEISMIC
- SEISMIC USE GROUP: I
- SPECTRAL RESPONSE COEFFICIENTS:
- S1: 8% S<sub>r</sub>: 19%
- SITE CLASS: C
- SEISMIC-FORCE-RESISTING SYSTEM
- LIGHT FRAMED WALLS
- ANALYSIS PROCEDURE: EQUIVALENT
- R=2
- I= 1.0
- S<sub>ds</sub>= 0.15
- C<sub>s</sub>= 0.08
- W= 6466K
- V= 517K
- LATERAL FORCE

## SOIL COMPACTION NOTES:

- 1) CONTRACTOR TO FOLLOW RECOMMENDATION IN THE SOIL REPORT FOR ALL SOIL AND FOUNDATION PREPARATIONS FOR THE BUILDING. REPORT IS AVAILABLE FROM ARCHITECT.
- 2) REMOVE ANY UNACCEPTABLE EXISTING SOIL AND REPLACE WITH AN ACCEPTABLE FILL IN THE BUILDING AREA PLUS THE FEET (10'-0" BEYOND THE FOUNDATION PERIMETER. COMPACT EXPOSED SURFACE PER NOTE 4 BELOW.
- 3) CUTS SHALL BE SLOPED GRADUALLY FROM THE MAXIMUM DEPTH TO THE ZERO CUT BOUNDARY ON A SLOPE NOT LESS THAN 3 TO 1, HORIZONTAL TO VERTICAL.
- 4) AS REQUIRED BY THE OWNER OR ARCHITECT, A FIELD INSPECTION OF THE SITE AFTER EXCAVATION SHALL BE MADE PRIOR TO PLACEMENT OF BACKFILL.
- 5) THE EXPOSED SURFACE AFTER EXCAVATION SHALL BE COMPACTED UNTIL THE SOILS AT SIX INCHES BELOW THE SURFACE ARE COMPACTED A MINIMUM OF 95 PERCENT OF THEIR STANDARD PROCTOR MAXIMUM DRY DENSITY.
- 6) BACKFILL MATERIAL SHALL CONSIST OF SELECT CLAYEY SAND OR SANDY CLAY WITH A PLASTICITY INDEX NOT LESS THAN 8 NOR GREATER THAN 25.
- 7) ALL FOUNDATION SOLES SHOULD BE PLACED IN LOOSE LIFTS OF 8 INCHES, MAXIMUM, COMPACTED TO A MINIMUM OF 95% OF STANDARD PEAK DRY DENSITY.
- 8) ALL FILL AND COMPACTION PROCEDURES SHALL BE CONTROLLED BY A QUALIFIED TESTING LABORATORY AND FIELD DENSITY TESTS SHALL BE PERFORMED FOR EACH TWO THOUSAND SQUARE FEET OF AREA IN EACH LIFT TO ASSURE THAT COMPACTION HAS BEEN OBTAINED.

## FORM NOTES:

- 1) IF LOCAL CONDITIONS ARE FAVORABLE, USE EARTH TRENCH FORMS FOR FOOTINGS PROVIDED THE EARTH IS CLEAN CUT AND TRUE WITH BOTTOMS LEVEL AND SOUND.
- 2) FORMS, CENTERING, CORES, MOLDS, ETC., CONSTRUCT SO THAT THE FINISH CONCRETE WILL CONFORM TO THE SHAPES, LINES, GRADES AND DIMENSIONS INDICATED ON THE DRAWINGS.
- 3) SUBSTANTIALLY AND SUFFICIENTLY TIGHTEN FORMS TO PREVENT LEAKAGE OF MOISTURE AND PREVENT DEFLECTION OF FORMS UNDER THE WEIGHT OF WET CONCRETE OR OF CONSTRUCTION LOADS.
- 4) FORMS OR SHORING FOR CONCRETE SHALL NOT BE REMOVED UNTIL THE CONCRETE IS DETERMINED, THROUGH THOROUGH EXAMINATION, TO HAVE DEVELOPED SUFFICIENT STRENGTH TO SUPPORT ANY LOADS TO BE SUPERIMPOSED.
- 5) APPLY FORM OIL TO ALL FORMS TO PREVENT CONCRETE FROM STICKING.

## CONCRETE NOTES:

- 1) ALL CONCRETE FOR FLOOR SLABS & DECK SHALL BE NORMAL WEIGHT CONCRETE AND CONFORM TO CURRENT ACI SPECIFICATIONS AND SHALL DEVELOP 4000 PSI IN 28 DAYS. ALL OTHER CONCRETE TO BE 3500 PSI 28 DAYS STRENGTH.
- 2) CHAMFER ALL EXTERNAL CORNERS WHICH WILL BE EXPOSED AT THE COMPLETION OF THE PROJECT WITH A #5 CHAMFER UNLESS NOTED.
- 3) ROUGH FINISH SHALL BE GIVEN TO ALL CONCRETE NOT OTHERWISE SPECIFIED. CONCRETE SHALL HAVE ALL HONEYCOMBS PATCHED AND SHALL HAVE FINIS AND ROUGH EDGES REMOVED.
- 4) A SMOOTH FINISH SHALL BE GIVEN TO ALL CONCRETE EXPOSED IN COMPLETED WORK SUCH AS EXPOSED UNITS AND BEAMS, BUT NOT INCLUDING FLOOR SLABS, UNLESS SPECIFIED OTHERWISE. FINIS AND PROJECTIONS SHALL BE REMOVED AND THE SURFACES RUBBED WITH CEMENT OR CARBORUNDUM BRICK OR MORTAR OR GROUT SHALL BE USED TO OBTAIN A FINISH THAT BEING SMOOTH AND LEAVING SURFACES UNIFORMLY SMOOTH AND WASHED CLEAN.
- 5) INSTALL 6 MIL BLACK VISQUEEN UNDER ALL CONCRETE SLABS.
- 6) SEAL AROUND ALL PIPE AND LAP ALL JOINTS A MIN. OF 12".
- 7) ALL CONCRETE SLABS, UNLESS OTHERWISE NOTED, TO BE REINFORCED WITH 6 x 6 W/21 W2.1 MESH; LAP JOINTS 8' AND THE AT 12' O.C. SEE FOUNDATION SECTIONS FOR REINFORCING RODS AND SPACING.

## REINFORCING STEEL NOTES:

- 1) REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, EXCEPT #3 WHICH SHALL BE GRADE 40. ALL BARS SHALL BE DEFORMED CONFORMING TO ASTM A305.
- 2) ALL DETAILING AND ACCESSORIES SHALL CONFORM TO TYPICAL DETAILS SHOWN IN THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315, LATEST EDITION.
- 3) WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. FABRIC ON REINFORCING SHALL BE SUPPORTED BY A REBAR OR BRACKET SPACED AT 48"OC. SEE TYPICAL WALL DETAIL ON SHEET S-1 LAP ALL FABRIC THE SPACING TWO CROSS WIRES OR 12" WHICHEVER IS GREATER. WIRE MESH SIZE SHALL BE AS NOTED ON THE DESIGN DRAWINGS.
- 4) CONSULT ACI 318 FOR ALL LAP SPlice DETAILS.
- 5) ACCURATELY PLACE AND POSITION REBARS AND SECURE AGAINST DISPLACEMENT BY USING SUITABLE CLIPS, METAL CHAIRS, SPACERS, OR BY METAL HANGERS.
- 6) CONSULT ACI 318 FOR MINIMUM PROTECTIVE CONCRETE COVERAGE FOR REINFORCING STEEL

## EMBEDDED ITEM NOTES:

- 1) BEFORE PLACING CONCRETE, CARE SHALL BE TAKEN TO DETERMINE THE LOCATION OF ALL EMBEDDED ITEMS. ALL EMBEDDED ITEMS SHALL BE THOROUGHLY CLEANED IN PLACE AS INDICATED. EMBEDDED ITEMS SHALL BE THOROUGHLY CLEANED AND FREE FROM COATINGS, RUST SCALE, OIL, OR ANY FOREIGN MATTER.
- 2) SHOP CLEANING and PAINTING NOTES:
  - 1) PRIOR TO PAINTING, ALL STEEL SHALL BE THOROUGHLY CLEANED IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL SURFACE PREPARATION SPECIFICATION SSPC - SP3.
  - 2) SHOP PRIME WITH STD RED OXIDE PRIMER, MINIMUM 2 MIL DRY FILM.

## SHOP DRAWINGS:

- 1) SHOP FABRICATOR IS TO DEVELOP ANY DETAIL AND CONNECTION NOT SHOWN AND SUBMIT TO THE ENGINEER FOR REVIEW.
- 2) NO REPRODUCTION OF CONTRACT DOCUMENTS FOR SHOP DRAWINGS WILL BE PERMITTED.
- 3) REVIEW OF SUBMITTED SHOP DRAWINGS BY THE ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO PRODUCE SHOP DRAWINGS THAT ACCURATELY REFLECT THE INTENT OF THE SHOP DRAWINGS AND THE ENGINEER OF RECORD. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR OMISSIONS AND ERRORS ASSOCIATED WITH THE PREPARATION OF THE SHOP DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.

## CONNECTION NOTES:

- 1) SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 2) BOLTED CONNECTIONS FOR STRUCTURAL STEEL SHALL BE 3/4" A325 BOLT STRENGTH BOLTS, UNLESS NOTED OTHERWISE ON DRAWINGS. BOLTS SHALL HAVE A325 HEAVY HEADS WITH HEAVY HEX NUTS AND ONE HARDENED WASHER PER BOLT. BOLTS SHALL BE INSTALLED WITH THE HARDENED WASHER UNDER THE ELEMENT OF THE CONNECTOR TO BE WELDED TO THE ELEMENT. ALL HOLES FOR 3/4" BOLTS SHALL BE STANDARD SIZE, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 3) STAIR STRINGERS, RAILS, AND GRIPS SHALL BE CONNECTED WITH A307 BOLTS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 4) THE STRUCTURAL DETAILER SHALL MAKE A TAKE-OFF OF THE FIELD BOLT QUANTITIES AND PREPARE BOLT PLACEMENT SHEETS INDICATING THE NUMBER, SIZE, AND TYPE OF BOLTS REQUIRED FOR EACH CONNECTION. THE FIELD BOLT QUANTITIES AND PLACEMENT SHEETS SHALL BE INCLUDED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE.
- 5) ALL WELDS SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH AISC SPECIFICATIONS.
- 6) WHERE STEEL BEAMS ARE CONTINUOUS OVER COLUMNS, PROVIDE WEB STIFFENER PLATES EACH SIDE OF THE BEAM WEB OF A THICKNESS EQUAL TO THE BEAM FLANGE THICKNESS, LOCATED IN ALIGNMENT WITH THE COLUMN WEB OR FLANGES OR CENTERLINE OF TUBE AND PIPE COLUMNS.
- 7) ALL COLUMN BASE PLATES SHALL HAVE FOUR (4) ANCHOR BOLTS.
- 8) ALL STEEL BEAM TO COLUMN CONNECTION TO BE FULL STRENGTH SHEAR CONNECTION (REFER TO AISC - CODE & DETAILS)

## LOAD BEARING METAL STUDS:

- 1) ALL LOAD BEARING STUDS SHALL BE AS SHOWN ON THE DRAWINGS.
- 2) NOT USED.
- 3) ALL STUDS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A G60 GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A525.
- 4) A MINIMUM OF 10" OF UN-PUNCHED STEEL IS REQUIRED AT BOTH ENDS OF STUDS (NO PUNCHING HOLES IF ANY SIZE IS PERMITTED IN THESE 10 INCHES.
- 5) LOAD-BEARING WALLS SHALL BE PRE-FABRICATED OFFSITE IN A PRE-PANELIZATION SHOP IN A CONTROLLED ENVIRONMENT WITH A CERTIFIED QUALITY CONTROL PROGRAM.
- 6) THE PANELIZER MUST SUBMIT FULLY DIMENSIONED WALL PANEL SHOP DRAWINGS OF EACH INDIVIDUAL WALL PANEL. THE SIZE, GAGE AND SPACING OF EACH STUD SHALL PANELS MAY BE FABRICATED WITH WELDS OR SCREWS. FIELD WELDING OF MATERIAL SHALL BE PROHIBITED. STUDS SHALL BE PROTECTED BY AN INHERENTLY "STRUCTURAL WELDING CODE-SHEET METAL" (AWS D1.3-8).
- 8) BOTH STUD FLANGES MUST BE ATTACHED TO TRACK AT TOP & BOTTOM WITH #12 SCREWS OR WELD.
- 9) ALL WELDS SHALL BE TOUCHED UP WITH ZINC RICH PAINT.
- 10) STUDS SHALL HAVE FULL BEARING AGAINST THE INSIDE TRACK WEB TOP AND BOTTOM STUDS MUST BE CUT SQUARE. THE PANELIZATION FACILITY MUST UTILIZE A COMPRESSION MECHANISM IN THEIR JOGS (i.e. HYDRAULIC RAMS) TO FULLY SEAT THE STUDS IN THE TRACK PRIOR TO ATTACHING.
- 11) TRACK SPICES WITHIN A PANEL MUST BE SECURELY ANCHORED TO A COMMON ELEMENT (i.e. STUD OR HEADER). OR BUTT-WELDED TOGETHER.
- 12) LATERAL BRIDGING SHALL BE USED TO RESIST TORSIONAL FORCES ON THE LOAD-BEARING STUDS. BRIDGING SHALL BE 1/2" ORC CHANNEL IN 3% OR 4" STUDS AND 2x2" ORC IN 6" AND 8" STUDS
- 13) (3) ROWS OF BRIDGING IS TO BE SPACED AT NO MORE THAN 3'-0" o.c. VERTICALLY AT THE APPROXIMATE 1/4 POINTS VERTICALLY.
- 14) MINIMUM TRACK FASTENING SHALL BE .177" DIAMETER POWDER ACTUATED FASTENERS SPACED ON 16" CENTERS (U.N.O.) WITH 1" MINIMUM PENETRATION INTO CONCRETE.
- 15) Voids BETWEEN TRACK SHALL NOT BE PERMITTED. CONTRACTOR SHALL PROVIDE A REASONABLY LEVEL SLAB WITH TOLERANCE OF 1/4" IN 10 FEET. WHERE UNEVENNESS OF SUPPORTING FLOOR PREVENTS CONTINUOUS SOLID BEARING, PANEL OR TRACK SHALL BE LEVELED BY A METHOD APPROVED BY THE ENGINEER OF RECORD.
- 16) CONTINUOUS STUDS EACH SIDE OF HEADERS SHALL BE EQUAL TO 1/2 OF THE INTERRUPTED STUDS PLUS ONE STUD AT EACH SIDE. USE MINIMUM OF TWO (2) STUDS EACH SIDE. HEADERS SHALL BE DESIGNED TO TRANSFER ALL UNIFORM AND/ OR CONCENTRATED LOADS. SHEAR SHALL BE TRANSFERRED BY FULL BEARING ON JACK STUDS. SEE DETAILS SHEET S0.3.
- 17) CUTTING OF LOAD-BEARING METAL STUDS, OR TRACK IS NOT PERMITTED WITHOUT SPECIFIC APPROVAL FROM THE ENGINEER OF RECORD.
- 18) ALL BOTTOM AND TOP TRACKS SHALL BE THE SAME GAGE AS THE STUDS w/1 1/2" FLANGES.

## STRUCTURAL STEEL NOTES:

- 1) ALL STRUCTURAL SHAPES AND PLATES SHALL BE ASTM A992 AND ALL THICKNESS SHALL BE 46.0 KSI MATERIAL UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 2) ALL HIGH STRENGTH BOLTS SHALL BE ASTM A325 UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 3) ALL WELDING SHALL EMPLOY WELD METAL HAVING A NOMINAL TENSILE STRENGTH OF 70 KSI.
- 4) ALL PIPE TO BE USED FOR RAILING SHALL BE ASTM A53, TYPE E OR S, GRADE B MATERIAL.

## STEEL JOISTS:

- 1) ALL BAR JOIST ERECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDED CODE OF STANDARD PRACTICE FOR STEEL JOISTS AND JOIST BRIDGES PUBLISHED BY THE STEEL JOIST INSTITUTE.
- 2) APPROPRIATE BRIDGING DURING CONSTRUCTION.
- 3) ALL JOIST ATTACHMENTS SHALL BE WELDED.
- 4) THE BOTTOM CHORD OF ALL JOISTS SHALL BE EXTENDED AND ATTACHED TO MAIN SUPPORTING ELEMENT (GRIDER, BEAM, WALL).

## COMPOSITE FLOOR DECK:

- 1) METAL DECK SHALL CONFORM TO APPLICABLE ASTM SPECIFICATIONS FOR LIGHT GAGE COLD FORMED STEEL.
- 2) COMPOSITE FLOOR DECK SHALL BE AS NOTED ON PLANS BY VULCRAFT OR EQUAL. ATTACH THE DECK TO ALL SUPPORTING MEMBERS WITH 5/8" PUDDLE WELDS AS SHOWN ON THE DRAWINGS. WELDED STUDS MAY REPLACE PUDDLE WELDS. THE SIDELAPS SHALL BE ATTACHED BY WELDING AT 12"OC.
- 3) HEADED STUDS ARE TO BE A56 MATERIAL FIELD WELDED THROUGH THE DECK TO THE SUPPORTING STEEL. ADD 1 HS TO THE QUANTITIES SHOWN ON THE DRAWINGS FOR A 90° BEND FIELD TEST TO BE PERFORMED ON THE DECK. THE DECK SHALL BE PROTECTED FROM RUST BY CARE MUST BE EXERCISED IN THE INSTALLATION OF THE HEADED STUDS SPACE STUDS UNIFORMLY ALONG THE LENGTH OF THE MEMBER.

## ROOF DECK WITHOUT CONCRETE:

- 1) METAL DECK SHALL CONFORM TO APPLICABLE ASTM SPECIFICATIONS FOR LIGHT GAGE COLD FORMED STEEL.
- 2) METAL ROOF DECK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURER'S REQUIREMENTS. ATTACH DECK TO SUPPORTING STEEL WITH 5/8" PUDDLE WELDS AT 6" OC ALL EDGES AND AT 12"OC ELSEWHERE UNLESS NOTED OTHERWISE IN THE SECTIONS AND DETAILS.
- 3) ROOF DECK SHALL BE 3/16 PAINTED DECK BY VULCRAFT (TYPE N), or EQUAL.

## MECHANICAL:

CRABTREE ENGINEERING  
726 S. MT. MORIAH  
MEMPHIS, TN 38117  
(901) 767-9888

## ELECTRICAL:

CHS ENGINEERING  
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## SEAL



# Holiday Sign  
BOSSIER CITY,  
LOUISIANA  
WILLETENNUM

## SHEET NAME STRUCTURAL GENERAL NOTES

SHEET NAME	STRUCTURAL GENERAL NOTES
DATE	10/26/07
DRAWN BY	RDR
CHECKED BY	MCP
FILE NAME	1507-S0.X
SCALE	AS NOTED
PROJECT NO.	1507
DRAWING	

S0.1