

ABBREVIATIONS USED ON STRUCTURAL DRAWINGS

ABOVE FINISH FLOOR	- A.F.F.	LARGER THAN OR EQUAL TO	- >=
ADDITIONAL	- ADDN'L	LESS THAN OR EQUAL TO	- <=
ADJACENT	- ADJ.	LIVE LOAD	- L.L.
ALTERNATE	- ALT.	LONGITUDINAL	- LONG.
ANCHOR BOLT	- A.B.	LONG LEG HORIZONTAL	- LLH
AND	- &	LONG LEG VERTICAL	- LLV
ANGLE	- L	LOW POINT	- L.P.
APPROXIMATE	- APPROX.		
ARCHITECTURAL	- ARCH'L	MANUFACTURER	- MFR.
AT	- @	MATERIAL	- MAT'L
AIR CONDITIONER	- A/C	MAXIMUM	- MAX.
AIR HANDLING UNIT	- AHU	MECHANICAL	- MECH'L
		METAL	- MET
BACK TO BACK	- B/B	MEZZANINE	- MEZZ.
BASE PLATE	- BP	MINIMUM	- MIN.
BEAM	- BM.	MISCELLANEOUS	- MISC.
BEARING	- BRG.	MOMENT	- M.
BETWEEN	- BTWN.	MOMENT CONNECTIONS	- M.C.
BLOCKING	- BLK'G.		
BOTH WAYS	- B.W.	NON-SHRINK	- N.S.
BOTTOM	- BOT.	NOT TO SCALE	- N.T.S.
BOTTOM CHORD EXTENSION	- BCX	NUMBER	- NO.
BRIDGING	- BRDG.		
BUILDING	- BLDG.	ON CENTER	- O.C.
BUILDING LINE	- B.L.	OPENING (S)	- OPNG.(S)
		OPPOSITE	- OPP.
CEILING	- CLG.	OPPOSITE HAND	- O.H.
CENTER TO CENTER	- C/C	OUTSIDE DIAMETER	- O.D.
CENTER LINE	- CL	OUTSIDE FACE	- O.F.
CENTERED	- CNTRD.		
CHANNEL	- C	PENETRATION	- PEN.
CLEAR	- CL	PERIMETER	- PERIM.
COLUMN	- COL.	PERPENDICULAR	- PERP.
COMPRESSION	- C.	PIPE BRACE	- P.B.
CONCRETE	- CONC.	PLATE	- PL
CONCRETE MASONRY UNIT	- CMU	POINT	- PT.
CONDENSING UNIT	- CU	PRECAST CONCRETE	- P/C
CONNECTION (S)	- CONN.(S)	PROJECTION	- PROJ.
CONTINUOUS	- CONT.		
CONSTRUCTION JOINT	- C.J.	RADIUS	- RAD.
COORDINATE	- COORD.	REFER	- REF.
		REINFORCING	- REINF.
DETAIL	- DET.	REMAINDER	- REM.
DEAD LOAD	- D.L.	REQUIRED	- REQ'D.
DIAGONAL	- DIAG.	RIGID FRAME	- R.F.
DIAGONAL BRACE	- D.B.	ROOF TOP UNIT	- RTU
DIAMETER	- DIA. OR Ø	ROOF DRAIN	- R.D.
DIMENSION	- DIM.		
DOUBLE	- DBL.	SAWN JOINT	- S.J.
DOWELS	- DWL(S)	SCHEDULE	- SCHED.
DOWN	- DN.	SECTION	- SECT.
DRAWING	- DRWG.	SHEAR	- V
		SHEET	- SHT.
EACH	- EA.	SIMILAR	- SIM.
EACH FACE	- E.F.	SLIP CONNECTION	- S.C.
EACH WAY	- E.W.	SPACE	- SP.
ELECTRICAL	- ELEC'L	SPECIFICATIONS	- SPEC.
ELEVATION	- EL.	STANDARD	- STD.
ELEVATOR	- ELEV.	STEEL	- STL.
ENGINEER	- ENGR.	STIFFENER	- STIFF.
EQUAL (EQUALLY)	- EQ.	STIRRUPS	- STR.
EXPANSION	- EXP.	STRUCTURE	- STRUCT.
EXPANSION JOINT	- E.J.	STRUCTURAL	- STRUCT'L
EXISTING	- EXIST.	SUPPORT	- SUPT.
EXTERIOR	- EXT.	SYMMETRICAL	- SYMM.
FACE TO FACE	- F/F	TOP CHORD EXTENSION	- TCX
FAR SIDE	- F.S.	TEMPERATURE	- TEMP.
FINISH (ED)	- FIN.	TENSION	- T.
FINISHED FLOOR	- FIN. FL.	THICK	- THK.
FIXED CONNECTION	- F.C.	TONGUE & GROOVE	- T & G.
FLANGE	- FLG.	TOP & BOTTOM	- T & B.
FLOOR	- FL.	TOP OF BEAM	- T.O.B.
FOOTING	- FTG.	TOP OF FOOTING	- T.O.F.
FOUNDATION	- FDN.	TOP OF JOIST	- T.O.J.
		TOP OF METAL DECK	- T.M.D.
GAGE OR GAUGE	- GA.	TOP OF PIER	- T.O.P.
GALVANIZED	- GALV.	TOP OF PIER CAP	- T.O.P.C.
GENERAL	- GEN.	TOP OF STRUCTURAL STEEL	- T.O.S.S.
GLULAM	- GL.	TOP OF STRUCTURAL CONCRETE	- T.O.S.C
GRADE	- GR.	TOP OF WALL	- T.O.W.
GRADE BEAM	- G.B.	TOTAL LOAD	- T.L
GYPSPUM BOARD	- GYP. BD.	TRANSVERSE	- TRAN.
		TYPICAL	- TYP.
HEADED STUD	- H.S.	UNLESS NOTED OTHERWISE	- U.N.O.
HEIGHT	- HT.		
HIGH POINT	- H.P.	VERTICAL	- VERT.
HORIZONTAL	- HORIZ.		
HORIZONTAL LOAD	- H.L.		
		WATERSTOP	- W.S.
INFORMATION	- INFO.	WEIGHT	- WT.
INSIDE DIAMETER	- I.D.	WELDED WIRE MESH (FABRIC)	- W.W.F.
INSIDE FACE	- I.F.	WIND LOAD	- W.L.
INTERIOR	- INT.	WITH	- W/
INTERMEDIATE	- INTERM.	WOOD	- WD.
		WORK POINT	- W.P.
JOINT	- JT.		
JOISTS	- JST (S)	X-BRACING	- XB
KIPS	- K.		

GENERAL NOTES-IBC 2006

I. GENERAL CONDITIONS

A. DESIGN LOADS ARE AS FOLLOWS:

ROOF DEAD LOADS	
ROOF	1.0 PSF
DECKING	1.8 PSF
JOISTS OR RAFTER OR TRUSS	2.0 PSF
MECHANICAL AND ELECTRICAL	2.0 PSF
SPRINKLERS	1.5 PSF

ROOF LIVE LOADS (REDUCE WHERE APPLICABLE)	20 PSF
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ROOF SNOW LOAD		
Pg= 5 PSF	FLAT-GROUND SNOW LOAD	
Pf= 0.7(Ce)(Ct)(I)(Pg)	FLAT-ROOF SNOW LOAD	
Ce= 1.0	SNOW EXPOSURE FACTOR	
I= 1.0	SNOW LOAD IMPORTANCE FACTOR	
Ct= 1.0	THERMAL FACTOR	

WIND LOAD		
V= 90 MPH	BASIC WIND SPEED (3-SECOND GUST)	
I= 1.0	WIND IMPORTANCE FACTOR	
	TABLE 6-1, ASCE-7	

BUILDING CATEGORY II		
EXPOSURE CATEGORY C		
Gcpi= +/-0.18	ENCLOSED BUILDINGS	
	TABLE 6-7, ASCE-7	
p= +19 PSF/-21 PSF	DESIGN WIND PRESSURE FOR COMPONENTS AND CLADDING AT WALL	
p= +10 PSF/-37 PSF	DESIGN WIND PRESSURE FOR COMPONENTS AND CLADDING AT ROOF <10'	

EARTHQUAKE LOAD		
IEQ= 1.0		
SS= 0.114	MAPPED SPECTRAL RESPONSE ACCELERATION (SHORT PERIOD)	
S1= 0.049	MAPPED SPECTRAL RESPONSE ACCELERATION (1SEC. PERIOD)	

SITE CLASS D	
SEISMIC DESIGN CATEGORY = A	

SDS= 0.122	SPECTRAL RESPONSE COEFFICIENT (SHORT PERIOD)
SD1= 0.078	SPECTRAL RESPONSE COEFFICIENT (1SEC. PERIOD)

BASIC SEISMIC-FORCE-RESISTING-SYSTEM = SHEAR WALLS

CS= 0.01	SEISMIC RESPONSE COEFFICIENT
R= 3	RESPONSE MODIFICATION FACTOR

ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE ANALYSIS

- STRUCTURE WAS DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2006 EDITION.
- CONSULT STRUCTURAL ENGINEER IF LOCATIONS OR DESIGN WEIGHTS OF ROOF TOP UNITS DIFFER FROM THOSE ON PLANS.
- ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO START OF CONSTRUCTION.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF OTHER TRADES (MECH'L, ELEC'L, ETC.) PRIOR TO FABRICATION AND INSTALLATION OF MATERIALS.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION, FORMING, OR PLACEMENT OF MATERIALS. GENERAL CONTRACTOR SHALL REPORT DISCREPANCIES IMMEDIATELY TO ARCHITECT AND SHALL PROCEED WITH CONSTRUCTION ONLY AFTER DISCREPANCY HAS BEEN RESOLVED.
- THE DETAILS DESIGNATED AS "TYPICAL DETAILS" (TYP) APPLY GENERALLY TO THE DRAWINGS IN ALL AREAS WHERE CONDITIONS ARE SIMILAR
- THE DESIGN REPRESENTED BY THESE PLANS PROVIDES FOR STABILITY OF THE COMPLETED STRUCTURE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN STRUCTURE STABILITY AND SAFETY DURING CONSTRUCTION PER REQUIREMENTS OF SEI/ASCE 37-01 DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION.

II. SITE

- SOIL TREATMENT RECOMMENDATIONS ARE BASED UPON GEOTECHNICAL REPORT NO.G110139 BY ALPHA. FOR CONTRACTOR'S CONVENIENCE, THE FOLLOWING INFORMATION IS PROVIDED FOR SOIL PAD PREPARATION. FOR COMPLETE INFORMATION REFER TO THE REFERENCED GEOTECHNICAL REPORT.
 - AFTER THE REMOVAL OF THE CONCRETE PAVEMENT AND BRICK AT THE SURFACE OF THE BUILDING AREA, 1 FT OF CLAY OVERBURDEN SOILS SHOULD BE REMOVED AND REPLACED WITH AT LEAST 1 FT OF SELECT, NON-EXPANSIVE MATERIAL. ANY ADDITIONAL FILL REQUIRED TO RAISE THE BUILDING PAD GRADE SHOULD CONSIST OF SELECT MATERIAL
 - IT WILL BE NECESSARY TO MAINTAIN THE MOISTURE CONTENT OF THE SOILS DURING THE TIME THE SUBGRADE IS EXPOSED TO THE ATMOSPHERE AFTER DEMOLITION OF EXISTING PAVEMENT AND PRIOR TO COVERING WITH NEW FOUNDATIONS. THE 1 FT OF SELECT FILL SHOULD BE PLACED WITHIN ONE WEEK AFTER REMOVING THE CONCRETE PAVEMENT.
 - AFTER COMPLETION OF THE NECESSARY STRIPPING, CLEARING, AND EXCAVATING AND PRIOR TO PLACING ANY REQUIRED FILL, THE EXPOSED SUBGRADE SHOULD BE CAREFULLY EVALUATED BY PROBING AND TESTING. ANY UNDESIRABLE MATERIAL (ORGANIC MATERIAL, WET, SOFT, OR LOOSE SOIL) STILL IN PLACE SHOULD BE REMOVED.
 - THE EXPOSED SUBGRADE SHOULD BE FURTHER EVALUATED BY PROOF-ROLLING WITH A HEAVY PNEUMATIC TIRED ROLLER, LOADED DUMP TRUCK OR SIMILAR EQUIPMENT WEIGHING APPROXIMATELY 10 TONS TO CHECK FOR POCKETS OF SOFT OR LOOSE MATERIAL HIDDEN BENEATH A THIN CRUST OF POSSIBLY BETTER SOIL.
 - ANY UNDESIRABLE MATERIAL (ORGANIC MATERIAL, WET, SOFT, OR LOOSE SOIL) EXPOSED SHOULD BE REMOVED AND REPLACED WITH WELL-COMPACTED MATERIAL.
 - PRIOR TO PLACEMENT OF ANY FILL, THE EXPOSED SUBGRADE SHOULD THEN BE SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES AND RECOMPACTED.

II. SITE (CONTINUED)

- FINE GRADING UNDER SLAB SHALL BE TRIMABLE, COMPACTABLE, GRANULAR FILL (NOT SAND).
- A VAPOR BARRIER OF 15 MIL. STEGO WRAP VAPOR BARRIER OR BETTER (0.01 PERM MAXIMUM PER ASTM E 1745) SHALL BE PROVIDED ABOVE THE FINE GRADING.

III. CONCRETE

- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. ALL SLABS TO RECEIVE FLOOR COVERINGS SHALL HAVE A MAXIMUM WATER/CEMENTITIOUS RATIO OF 0.45, OR PROVIDE OTHER TOPICAL MEANS OF MOISTURE RESISTANCE ACCEPTABLE TO FLOORING MANUFACTURER.
- REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE.
- REFER TO DOWEL SCHEDULE ON SHEET S1.1 FOR ALL BARS MARKED "DWL" ON THE DRAWINGS.
- LAP REINFORCING SPLICES #6 AND SMALLER BARS - 57 BAR DIAMETERS WITH 24" MINIMUM UNLESS NOTED OTHERWISE.
- NON-SCHEDULED HORIZONTAL GRADE BEAM REINFORCEMENT SHALL BE PLACED AS FOLLOWS:

TOP BARS -PROVIDE STANDARD ACI HOOKS AT ENDS OF BEAMS.

- PROVIDE CORNER BARS WITH 30 BAR DIAMETER LAP TO MATCH HORIZONTAL REINFORCEMENT AT ALL GRADE BEAM INTERSECTIONS. 2'-0" LAP MINIMUM.
- ALL REINFORCEMENT SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL.
- CONTRACTOR SHALL COORDINATE ALL PENETRATIONS, CONDUIT, CHAMFERS AND EMBEDDED ITEMS PRIOR TO CONCRETE PLACEMENT.

IV. MASONRY

- CONCRETE MASONRY UNITS: ASTM C 90, GRADE N-I FOR LOADBearing UNITS. PROVIDE HOLLOW UNITS MADE FROM PORTLAND CEMENT AND LIGHTWEIGHT AGGREGATE.
- MORTAR SHALL BE TYPE S FOR ABOVE GRADE APPLICATIONS.
- BOND SHALL BE PROVIDED BY LAPPING UNITS IN SUCCESSIVE VERTICAL COURSES.
- VERTICAL CELLS TO BE FILLED SHALL HAVE CLEAR, UNOBSTRUCTED VERTICAL CELL OF 2" X 3" MINIMUM.
- CELLS TO BE GROUTED SHALL BE FILLED SOLID. GROUT SHALL HAVE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.
- GROUT POURS SHALL NOT EXCEED 4 FEET IN HEIGHT EXCEPT WHERE CLEANOUTS ARE PROVIDED IN THE BOTTOM COURSE OF THE CELL TO BE GROUTED.
- VERTICAL REINFORCING BARS SHALL BE HELD IN POSITION UNTIL GROUT IS SET. THE FIRST CELL AT CORNERS, ENDS OF WALLS AND EDGE OF OPENINGS SHALL BE REINFORCED WITH 1 #5 AND GROUTED SOLID.
- WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL TO SIX VERTICAL. THE DOWEL SHALL BE GROUTED INTO A CELL IN VERTICAL ALIGNMENT EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCEMENT.

V. STRUCTURAL STEEL

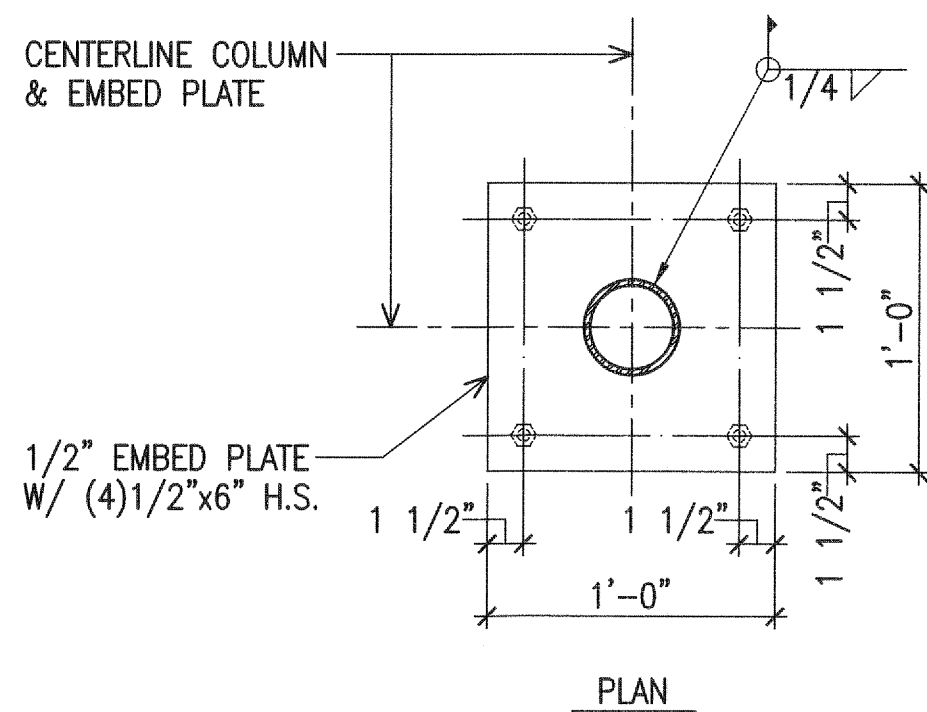
- WIDE FLANGE STEEL SHALL BE ASTM A992. BALANCE OF STRUCTURAL STEEL SHALL BE ASTM A36.
- ROUND PIPE SHALL BE ASTM A53 GRADE B (Fy=35 ksi).
- STEEL JOISTS SHALL MEET ALL SPECIFICATIONS OF THE LATEST S.J.I. EDITION. Fy=50 KSI.
- STEEL JOISTS AND BRIDGING SHALL BE DESIGNED BY MANUFACTURERS FOR NET UPLIFT FORCES DUE TO WIND OF 12 PSF.
- STRUCTURAL STEEL CONNECTIONS NOT DETAILED SHALL BE AISC STANDARD TYPE 2 CONNECTIONS.
- ALL BOLTED CONNECTIONS SHALL USE ASTM A325 BOLTS UNLESS NOTED OTHERWISE.
- ALL WELDS SHALL BE MADE USING E70 ELECTRODES.
- HEADED STUDS (H.S.) SHALL BE NELSON OR BETTER.
- STANDING SEAM ROOF DECK SHALL NOT PROVIDE LATERAL SUPPORT FOR JOIST TOP CHORD.
- TEMPORARY CONSTRUCTION BRACING OF THE STRUCTURAL STEEL FRAME SHALL REMAIN IN PLACE UNTIL AFTER THE ROOF DECK ATTACHMENTS HAVE BEEN COMPLETED AND ALL PERMANENT BRACING HAS BEEN INSTALLED.

VI. METAL ROOF DECK

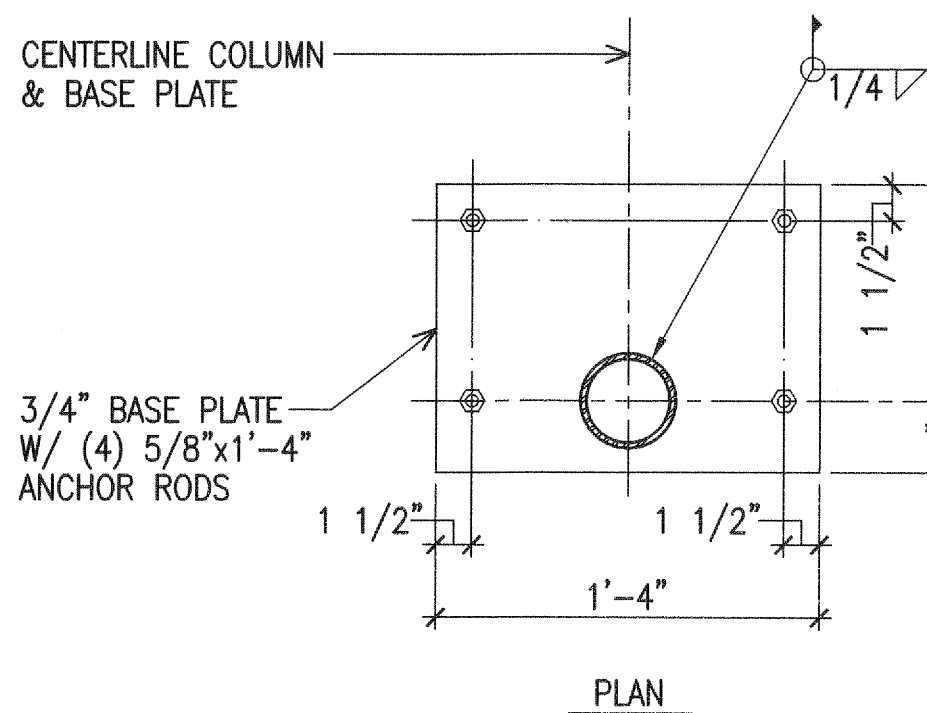
- PROVIDE 1-1/2" METAL DECKING 22 GAGE, TYPE "F" ROOF DECK AS PER SDI SPECIFICATIONS (MINIMUM SECTION PROPERTIES SHALL BE Sp=.112 IN³/FT, Ix=.121 IN⁴/FT).
- ROOF DECK SHALL BE CONTINUOUS OVER THREE (3) SPANS MINIMUM.
- SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL DECK.
- MINIMUM DECK ATTACHMENTS PARALLEL TO DECK FLUTES:
 - DECK TO DECK SIDE LAPS - #10 TEK SCREWS AT 1/4 POINTS BETWEEN SUPPORTS
 - ALONG PERIMETER SUPPORTS - 5/8" DIAMETER PUDDLE WELDS AT 36/4 PATTERN
- MINIMUM DECK ATTACHMENTS PERPENDICULAR TO DECK FLUTES: 5/8" DIAMETER PUDDLE WELDS AT 36/4 PATTERN BETWEEN LAP FLUTES OR MECHANICAL FASTENERS PROVIDING EQUIVALENT OR BETTER DIAPHRAGM CAPACITY AND STIFFNESS, AND UPLIFT RESISTANCE CAPACITY PER S.D.I.
- PROVIDE 18" WIDE 20 GAGE FILLER SHEETS CENTERED ON NON-NESTING SIDE LAPS AS REQUIRED. CONNECT AS PER NOTE D ABOVE.

VII. COLD-FORMED METAL FRAMING

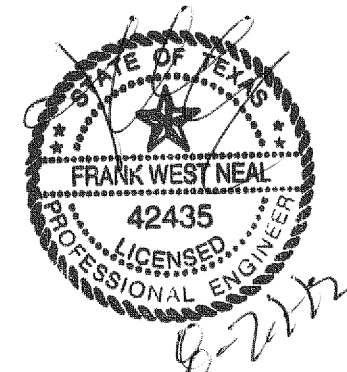
- PROVIDE LIGHTGAGE STRUCTURAL MEMBERS AS DETAILED OR NOTED ON PLAN OR IN SECTIONS AND DETAILS.
- ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS." LATEST EDITION.
- ALL STRUCTURAL MEMBERS SHALL BE FORMED FROM HOT-DIP GALVANIZED STEEL, G-60 COATING, CONFORMING TO THE REQUIREMENTS OF ASTM A653, GRADE D, WITH A MINIMUM YIELD OF 50 KSI.
- ATTACHMENT OF STRUCTURAL MEMBERS SHALL BE BY WELDING, BOLTING, OR WITH SELF-DRILLING SCREWS. WIRE TYING OF FRAMING COMPONENTS IN STRUCTURAL APPLICATIONS WILL NOT BE PERMITTED.



1 EMBED PLATE DETAIL NTS



2 BASE PLATE DETAIL NTS



ADDITION, RENOVATIONS AND RECONSTRUCTIONS FOR

SPELLMAN MUSEUM OF FORNEY HISTORY

200 S. BOIS D'ARC STREET - FORNEY, TEXAS 75126

ABBREVIATIONS,
GENERAL NOTES
& BASE PLATES

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