PRE-ENGINEERED LIGHT GAUGE STRUCTURAL FRAMING:

GENERAL:

1. LIGHT GAUGE FRAMING INCLUDING EXTERIOR WALL STUDS, INTERIOR WALLS AND SOFFIT STUDS, FLOOR JOISTS, AND ROOF JOISTS SHALL BE DESIGNED BY A STRUCTURAL ENGINEER REGISTERED IN THE PROJECT STATE.
2. PRIOR TO FABRICATION, THE CONTRACTOR SHALL SUBMIT SEALED SHOP DRAWINGS INDICATING DESIGN DATA AND SHALL INCLUDE COMPLETE PLANS AND DETAILS.
3. INFORMATION INCLUDED IN THESE PLANS ARE THE MINIMUM REQUIREMENTS. EXTERIOR WALL STUDS SHALL BE A MINIMUM OF 600 S 162-54 AT 16" O.C.
4. METAL STUD STRENGTH CRITERIA:

   A. GAUGES 20 THROUGH 18 - 33 KSI MIN. YIELD STRESS
   B. GAUGES 16 THROUGH 12 - 50 KSI MIN. YIELD STRESS
   C. TRACK RUNNER - 33 KSI MIN. YIELD STRESS

5. METAL STUD MEMBER DESIGNATION: 600 S 162 - 33

   WEB DEPTH: 600 = 6"
   MEMBER TYPE: S = STUD
   FLANGE WIDTH: 162 = 1.625" (1 5/8")
   MINIMUM THICKNESS IN MILS

MILS	GAUGE
33	20
43	18
54	16
68	14
97	12

6. FASTENERS:

   A. SCREW CONNECTIONS

   FASTENING STUD TO STUD
   USE #10-16 TEKS/3 x 5/8" LONG BY ITW BUILDEX UNLESS OTHERWISE NOTED.
   MIN. EDGE DISTANCE = 3/4"
   MIN. SPACING BETWEEN FASTENERS = 3/4"

   FASTENING STUD TO MASONRY:
   USE 1/4" DIA. TAPCON SCREWS BY ITW BUILDEX.
   MIN. EMBEDMENT = 1" MIN. EDGE DISTANCE = 2"
   MIN. SPACING BETWEEN FASTENERS = 3"

   B. POWDER ACTUATED FASTENERS (P.A.F.):

   FASTENING TO CONCRETE or MASONRY:
   USE 0.145" DIA. DOME HEAD NAIL BY HILTI, UNLESS NOTED OTHERWISE.
   MIN. EMBEDMENT = 1 1/4" MIN. EDGE DISTANCE = 2"
   MIN. SPACING BETWEEN FASTENERS = 3"

   FASTENING TO STEEL:
   USE 0.145" DIA. DOME HEAD KNURLED SHANK FASTENER BY HILTI, UNLESS NOTED OTHERWISE.
   MIN. EMBEDMENT = FULL PENETRATION MIN. EDGE DISTANCE = 1/2"
   MIN. SPACING BETWEEN FASTENERS = 1"

7. FASTENING:

   A. MINIMUM FASTENING REQUIREMENTS, UNLESS NOTED OTHERWISE.

   TRACK TO CONCRETE:
   (2) FASTENERS AT 16" O.C. TYP w/ADD'L FASTENER 3" FROM END OF TRACK AND (2) FASTENERS MINIMUM AT JAMBS.

   TRACK TO STRUCTURAL STEEL:
   12" O.C. TYP. w/ADD'L FASTENER 3" FROM END OF TRACK AND (2) FASTENERS MINIMUM AT JAMBS.

   STUD TO TRACK:
   (1) SCREW MINIMUM AT EACH FLANGE

   STUD TO STUD:
   (3) SCREWS MINIMUM

   STUD TO STEEL OR CONCRETE:
   USE POWDER ACTUATED FASTENERS REFERENCED ABOVE.
   SEE DETAILS FOR CONNECTIONS, MINIMUM 2 FASTENERS.

8. WALL OPENING FRAMING: ALL STUDS CUT TO CREATE WALL OPENING MUST BE REPLACED WITH EQUAL FULL HEIGHT KING STUDS ON EACH SIDE OF THE OPENING.
9. CURTAIN WALL AND NON LOAD BEARING PARTITIONS:

   MECHANICAL BRACING OF STUDS IS NOT NECESSARY WHERE WALL SHEATHING IS ATTACHED ON BOTH SIDES OF THE STUDS.

   WHEN ONLY ONE FACE OF THE STUDS RECEIVE SHEATHING, PROVIDE BRACING BY ONE OF THE FOLLOWING METHODS:

   A. COLD ROLLED CHANNEL, RUN HORIZONTALLY THROUGH STUD PUNCH OUTS AND ATTACHED AT EACH STUD.
   B. 2" WIDE, 18 GAUGE, STEEL STRAPS RUN HORIZONTALLY, ON BOTH SIDES OF THE STUDS, AND ATTACHED AT EACH STUD.

   VERTICAL SPACING OF THE BRACING IS LIMITED TO A MAXIMUM OF 4'-0" THROUGHOUT THE HEIGHT OF THE WALL.

10. PROVIDE ALL ACCESSORIES AS REQUIRED BY THE METAL STUD MANUFACTURER.
11. JOISTS SHALL BE FABRICATED TO PROVIDE 12" OF UNPUNCHED WEB AT BEARING ENDS.
12. PROVIDE JOIST WEB STIFFENERS PER METAL STUD MANUFACTURERS' RECOMMENDATIONS AT BEARING POINTS.
13. PROVIDE END BLOCKING WHERE JOISTS ARE NOT RESTRAINED AGAINST ROTATION.
14. NO LIGHT GAUGE MEMBER, THAT HAS BEEN TRIMMED OR CUT, SHALL BE INSTALLED SO THAT AN EDGE OF A WEB PUNCH OUT OCCURS WITHIN 10" MINIMUM OF THE TRIMMED OR CUT MEMBER END.
15. ALL MEMBER CUTTING MUST BE PERFORMED USING A SAW OR SHEAR. NO TORCH CUTTING IS ALLOWED AT ANY TIME. ALSO CUTTING OF ADDITIONAL HOLES, OTHER THAN THOSE PROVIDED BY THE MANUFACTURER, IN THE MEMBER WEB IS NOT PERMITTED AT ANY TIME.
16. SPLICING OF AXIALLY LOADED MEMBERS IS NOT ALLOWED AT ANY TIME.
17. BUILT UP LIGHT GAUGE HEADERS, CONSTRUCTED FOR EXTERIOR WALL CONDITIONS, SHALL HAVE INSULATION PLACED WITHIN THEM PRIOR TO THEIR INSTALLATION IN WALL SYSTEM.

PERFORMANCE REQUIREMENTS:

A. STRUCTURAL PERFORMANCE: PROVIDE COLD FORMED METAL FRAMING CAPABLE OF WITHSTANDING DESIGN LOADS WITHIN LIMITS AND UNDER CONDITIONS INDICATED.

   1. DESIGN LOADS: AS INDICATED IN STRUCTURAL DESIGN CRITERIA.

   2. DEFLECTION LIMITS: DESIGN FRAMING SYSTEMS TO WITHSTAND DESIGN LOADS WITHOUT DEFLECTIONS GREATER THAN THE FOLLOWING:

      a. EXTERIOR LOAD BEARING WALL FRAMING: HORIZONTAL DEFLECTION OF L/360 OF THE WALL HEIGHT.

      b. INTERIOR LOAD BEARING WALL FRAMING: HORIZONTAL DEFLECTION OF L/240 OF THE WALL HEIGHT.

      c. WALL FRAMING SUPPORTING BRICK VENEER: DEFLECTION OF L/600 OF THE SPAN LENGTH.

   3. DESIGN FRAMING SYSTEMS TO PROVIDE FOR MOVEMENT OF FRAMING MEMBERS WITHOUT DAMAGE OR OVERSTRESSING, SHEATHING FAILURE, CONNECTION FAILURE, UNDUE STRAIN ON FASTENERS AND ANCHORS, OR OTHER DETRIMENTAL EFFECTS WHEN SUBJECT TO A MAXIMUM AMBIENT TEMPERATURE CHANGE OF 120 DEG. F.

   4. DESIGN FRAMING SYSTEM TO MAINTAIN CLEARANCES AT OPENINGS, TO ALLOW FOR CONSTRUCTION TOLERANCES, AND TO ACCOMMODATE LIVE LOAD DEFLECTION OF PRIMARY BUILDING STRUCTURE.

   5. METAL STUD MANUFACTURER SHALL BE A MEMBER OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA).

   6. ALL METAL STUDS AND ACCESSORIES SHALL HAVE A G60 GALVANIZED COATING, UNLESS NOTED OTHERWISE.

SUBMITTALS:

A. PRODUCT DATA: FOR EACH TYPE OF COLD FORMED METAL FRAMING PRODUCT AND ACCESSORY INDICATED.

B. SHOP DRAWINGS: SHOW LAYOUT, SPACINGS, SIZES, THICKNESSES, AND TYPES OF COLD FORMED METAL FRAMING; FABRICATION; AND FASTENING AND ANCHORAGE DETAILS, INCLUDING MECHANICAL FASTENERS. SHOW REINFORCING CHANNELS, OPENING FRAMING, SUPPLEMENTAL FRAMING, STRAPPING, BRACING, BRIDGING, SPLICES, ACCESSORIES, CONNECTION DETAILS, AND ATTACHMENT TO ADJOINING WORK.

   1. FOR COLD FORMED METAL FRAMING INDICATED TO COMPLY WITH DESIGN LOADS, INCLUDE STRUCTURAL ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER (LICENSED IN THE PROJECT STATE) RESPONSIBLE FOR THEIR PREPARATION.

QUALITY ASSURANCE:

A. INSTALLER QUALIFICATIONS: AN EXPERIENCED INSTALLER WHO HAS COMPLETED COLD FORMED METAL FRAMING SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR THIS PROJECT AND WHOSE WORK HAS RESULTED IN CONSTRUCTION WITH A RECORD OF SUCCESSFUL IN SERVICE PERFORMANCE.

B. ENGINEERING RESPONSIBILITY: ENGAGE A QUALIFIED PROFESSIONAL ENGINEER (LICENSED IN THE PROJECT STATE) TO PREPARE DESIGN CALCULATIONS, SHOP DRAWINGS, AND OTHER STRUCTURAL DATA.

   REFER TO LIGHT GAUGE FRAMING DRAWINGS FOR LIGHT GAGE METAL NOTES, PLANS AND DETAILS REQUIRED TO COMPLETE SYSTEM.

C. AISI SPECIFICATIONS: COMPLY WITH AISI'S "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" OR "LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR COLD FORMED STEEL STRUCTURAL MEMBERS".

ABBREVIATIONS

A.B.	ANCHOR BOLT	MAS.	MASONRY
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
ARCH	ARCHITECT	MFR.	MANUFACTURER
		MIN.	MINIMUM
B/	BOTTOM OF	MISC.	MISCELLANEOUS
BM.	BEAM	M.O.	MASONRY OPENING
BOTT	BOTTOM	MTL.	METAL
BLKG.	BLOCKING		
BLDG.	BUILDING	N.A.	NOT APPLICABLE
		N/A	NOT APPLICABLE
CJ	CONTROL/CONSTRUCTION	N.D.T.	NON-DESTRUCTIVE TESTING
C.L.	JOINT	N.I.C.	NOT IN CONTRACT
CLR	CENTER LINE	N.T.S.	NOT TO SCALE
CMU	CLEAR		
COL	CONCRETE MASONRY UNIT	O.C.	ON CENTER
CONC	COLUMN	O.D.	OUTSIDE DIAMETER
CONT	CONCRETE	O.H.	OPPOSITE HAND
CONST	CONTINUOUS	OPNG	OPENING
CONTR.	CONSTRUCTION	OPP.	OPPOSITE
COORD	CONTRACTOR		
CTR.	COORDINATE	P.A.F.	POWDER ACTUATED
	CENTER	PJF	FASTENER
DET.		PL	PREMOLDED JOINT FILLER
DIA	DETAIL	PLYWD.	PLATE
DN	DIAMETER	PREFAB.	PLYWOOD
DIM.	DOWN	P.T.	PREFABRICATED
DWG.	DIMENSION	PTD.	PRESSURE TREATED
	DRAWING		PAINTED
EA.		RAD.	
E.J.	EACH	REINF	RADIUS
EL	EXPANSION JOINT	REQ'D	REINFORCING
ELEV	ELEVATION		REQUIRED
E.O.R.	ELEVATION	SECT.	
E.W.	ENGINEER OF RECORD	SHT.	SECTION
EXIST.	EACH WAY	SIM.	SHEET
E.O.S.	EXISTING	SPCS	SIMILAR
	EDGE OF SLAB	SQ.	SPACES
F.F.		STD.	SQUARE
FIN. FLR.	FINISH FLOOR	STL	STANDARD
FT.	FINISH FLOOR	STRUC.	STEEL
F.S.	FOOT	S.W.	STRUCTURAL
FTG.	FOOTING STEP		SHORT WAY
F.V.	FOOTING	T/	
	FIELD VERIFY	THK.	TOP OF
GA.		T.O.S.	THICK
GALV.	GAUGE	TYP	TOP OF STEEL
G.C.	GALVANIZED		TYPICAL
GDR	GENERAL CONTRACTOR	U.N.O.	
	GIRDER		UNLESS NOTED OTHERWISE
HT.		VERT.	
HORIZ	HEIGHT		VERTICAL
	HORIZONTAL	WD	
JBE		WF	WOOD
JST	JOIST BEARING ELEVATION	WWF	WIDE FLANGE
JT	JOIST	WWM	WELDED WIRE FABRIC
	JOINT	W/	WELDED WIRE MESH
KB		W/O	WITH
	KNEE BRACE	WP	WITHOUT
LG			WORK POINT
LLH	LONG		
LLV	LONG LEG HORIZONTAL		
LW	LONG LEG VERTICAL		
	LONG WAY		

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