

**ERECTION and TOLERANCES:** Cold-formed steel framing shall be erected true and plumb per the requirements and within the specified tolerances listed below. For purposes of this section, camber is defined as the deviation from straightness of a member or any portion of a member with respect to its major axis, and sweep is defined as the deviation from straightness of a member or any portion of a member with respect to its minor axis.

- For joists, track, and axial load bearing studs, out of plumbness and out of straightness (camber and sweep) shall not exceed 1/1000<sup>th</sup> of the member length (1/8" over 10'-0").
- Erect framing in accordance with manufacturer's instructions.
- Studs shall seat into top and bottom tracks. The gap between the end of the stud and the web of the track shall not exceed 1/16" for axial load bearing studs.
- Joists and end stiffeners shall be located directly over studs. The use of a wall top track as a load distribution member is not permitted.

**FIELD CUTS AND NOTCHES:** Field cuts and notches of any kind (including widening pre-punched holes) are NOT allowed in any structural cold-formed steel member without prior approval from SER.

**TEMPORARY BRACING:** Reference "Temporary Shoring, Bracing" in the "General Requirements" section above.

DRAWING LEGEND				ABBREVIATIONS			
MARK	DESCRIPTION	MARK	DESCRIPTION				
F2.0	FOOTING SYMBOL (REFER TO SPREAD FOOTING SCHEDULE)	I	INDICATES WIDE FLANGE COLUMN	/	Angle	FDN	Foundation
(P1)	PILE CAP SYMBOL (REFER TO PILE CAP SCHEDULE)	□	INDICATES HOLLOW STRUCTURAL SECTION (HSS) COLUMN OR TUBE STEEL (TS) COLUMN	AB	Anchor Bolt	FIN	Finish
(A)	TILT-UP/PRECAST CONCRETE WALL CONNECTION SYMBOL (REFER TO CONNECTION DETAIL)	○	INDICATES HOLLOW STRUCTURAL SECTION (HSS) COLUMN OR STEEL PIPE COLUMN	ADDL	Additional	FLR	Floor
(W6)	SHEAR WALL SYMBOL (REFER TO SHEAR WALL SCHEDULE)	■	INDICATES WOOD POST	ADH	Adhesive	FRP	Fiberglass Reinforced Plastic
(Δ)	REVISION TRIANGLE	■	INDICATES BUNDLED STUDS	ARCH	Architectural	FRT	Fire Retardant Treated
(1)	TILT-UP/PRECAST CONCRETE WALL PANEL NUMBER (REFER TO TILT-UP/PRECAST CONCRETE WALL ELEVATIONS)	■	INDICATES CONCRETE COLUMN	B or BOT	Bottom	FTG	Footing
(1)	CMU WALL REINFORCING SYMBOL (REFER TO CMU WALL REINFORCING SCHEDULE)	■	INDICATES PRECAST CONCRETE COLUMN	B/BLDG	Bottom Of Building	F/	Face of Gage
(S)	CONTINUITY PLATE LENGTH (REFER TO TYPICAL DETAIL)	→	INDICATES MOMENT FRAME CONNECTION	BLKG	Blocking	GALV	Galvanized
(DS)	INDICATES DOUBLE SHEAR CONNECTION (REFER TO THE DOUBLE SHEAR PLATE CONNECTIONS DETAIL)	→	INDICATES DRAG CONNECTION	BMU	Block Masonry Unit	GEOTECH	Geotechnical
(SR)	INDICATES NUMBER OF STUD RAIL REQUIRED AT COLUMN (REFER TO STUD RAIL DETAILS)	→	INDICATES WOOD OR STEEL STUD WALL	BP	Baseplate	GL	Glue Laminated
(1)	ROOF/FLOOR DIAPHRAGM NAILING SYMBOL (REFER TO DIAPHRAGM NAILING SCHEDULE)	→	INDICATES MASONRY CMU WALL	BRBF	Buckling Restrained Braced Frame	GWB	Gypsum Wall Board
(C1)	STEEL COLUMN SYMBOL (REFER TO STEEL COLUMN SCHEDULE)	→	INDICATES CONCRETE TILT-UP CONCRETE WALL	BRG	Bearing	HDR	Header
T/SLAB	ELEVATION SYMBOL (T/ REFERS TO COMPONENT THAT THE ELEVATION REFERENCES)	→	INDICATES WOOD OR STEEL STUD WALL	BTWN	Between	HF	Hem-Fir
(3)	STUD BUBBLE (INDICATES NUMBER OF STUDS REQUIRED IF EXCEEDS NUMBER SPECIFIED IN PLAN NOTE)	→	INDICATES BEARING WALL BELOW	C	Centerline	HGR	Hanger
(3)	INDICATES STEP IN FOOTING (REFER TO TYPICAL STEP IN FOOTING DETAIL)	→	INDICATES EXISTING WALL	C	Camber	HD	Hold-down
(X/SX.X)	DETAILS OR SECTION CUT IN PLAN VIEW (DETAIL NUMBER/SHEET NUMBER)	→	POST-TENSION DEAD END (PLAN)	CB	Castellated Beam	HORIZ	Horizontal
(X/SX.X)	DETAILS OR SECTION CUT IN ELEVATION VIEW (DETAIL NUMBER/SHEET NUMBER)	→	POST-TENSION STRESSING END (PLAN)	CIP	Cast in Place	HP	High Point
(X/SX.X)	INDICATES LOCATION OF CONCRETE WALL SHEAR WALLS OR BRACED FRAME CONNECTIONS	→	POST-TENSION PROFILE (PLAN) (IN INCHES)	CJ	Control Joint	HSS	Structural Steel
(X/SX.X)	SPAN INDICATOR (INDICATES EXTENTS OF FRAMING MEMBERS OR OTHER STRUCTURAL COMPONENTS)	→	INTERMEDIATE STRESSING (PLAN)	CJP	Complete Joint Penetration	IBC	International Building Code
(X/SX.X)	INDICATES DIRECTION OF DECK SPAN	→		CLG	Ceiling	IDE	Inside Diameter
				CLR	Clear	INT ELEV	Interior Elevation
				CLT	Cross-Laminated Timber	INT	Interior
				CMU	Concrete Masonry Unit	K	Kips
				CON	Concrete	KSF	Kips Per Square Foot
				CONS	Construction	LL	Live Load
				CONT	Continuity	LLH	Long Leg Horizontal
				CSINK	Chimney Sink	LLV	Long Leg Vertical
				CTR	Centered	LP	Low Point
				DB	Drop Beam	LONGIT	Longitudinal
				DBL	Deformed Bar Anchor	LSL	Laminated Strand Lumber
				DEM	Demolish	LVL	Laminated Veneer Lumber
				DEV	Development	MAS	Masonry
				DF	Douglas Fir	MAX	Maximum
				DIAG	Diagonal	MECH	Mechanical
				DIST	Distributed	MEZZ	Mezzanine
				DL	Dead Load	MFR	Manufacturer
				DN	Down	MIN	Minimum
				DD	Ditto	MISC	Miscellaneous
				DP	Depth/Deep	NIC	Not in Contract
				DWG	Drawing	NLT	Nail-Laminated Timber
				(E)	Existing	NTS	Not To Scale
				EA	Each	OC	On Center
				EF	Each Face	OCBF	Ordinary Concentric Braced Frame
				ELEV	Elevation	OD	Outside Diameter
				ELEC	Electrical	OF	Outside Face
				ELEV	Elevator	OPNG	Opening
				EMBED	Embedment	OPP	Opposite
				EQ	Equal	OWSJ	Open Web Steel Joist
				EQUIP	Equipment	OWWJ	Open Web Wood Joist
				EW	Each Way	P	Plate
				EXP	Expansion	PAF	Powder Actuated Fastener
				EXP JT	Expansion Joint	PC	Precast
				EXT	Exterior	PERP	Perpendicular
				FD	Floor Drain	PLND	Plywood
						PP	Partial Penetration
						PREFAB	Prefabricated
						PSF	Pounds per Square Foot
						PSI	Pounds Per Square Inch
						PSL	Parallel Strand Lumber
						P-T	Post-Tensioned
						PT	Pressure Treated
						R	Radius
						RD	Roof Drain
						REF	Reference
						REIN	Reinforcement
						REQD	Required
						RET	Retaining
						SCB	Special Concentric Braced Frame
						SCHED	Schedule
						SHTNG	Sheathing
						SIM	Similar
						SM	Special Moment Frame
						SOG	Slab on Grade
						SP	Southern Pine
						SPEC	Specification
						SQ	Square
						SR	Studrail
						SF	Square Foot
						SST	Stainless Steel
						STAGG	Stagger/Staggered
						STD	Standard
						STIFF	Stiffener
						STL	Steel
						STRUCT	Structural
						SWWJ	Solid Web Wood Joist
						SYM	Symmetrical
						T	Top
						T/	Top Of
						T&B	Top & Bottom
						TC AX	Top Chord
							Axial Load
						TCX	Top Chord Extension
						TDS	Tie Down System
						T&G	Tongue & Groove
						THKND	Thickened
						THRD	Threaded
						THRU	Through
						TRANSV	Transverse
						TYP	Typical
						UBC	Uniform Building Code
						UND	Unless Noted
						UNR	Otherwise
						URM	Unreinforced Masonry Unit
						VERT	Vertical
						W	Wide
						W/	With
						W/O	Without
						WHS	Welded Headed Stud
						WP	Working Point
						WMF	Welded Wire Fabric
						±	Plus or Minus

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ISSUED / REVISED	DATE
QA SET	11/22/17
LL CD SET	11/30/17
PERMIT SET	12/18/17
BID SET	01/04/18

STRUCTURAL GENERAL NOTES

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