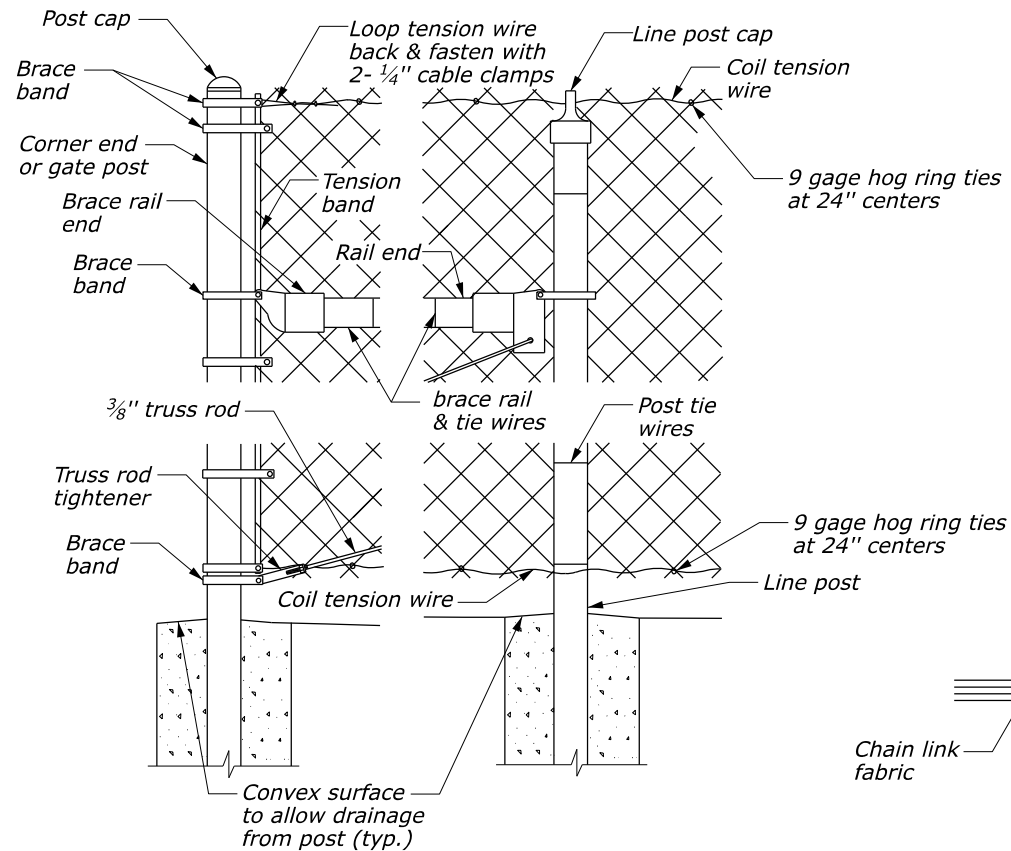


NOTES:

1. Use Type 1 requirements from chain link fence table unless otherwise specified.
2. Set all post in concrete. Set corner, end, and pull posts to the dimensions shown. Set line posts to a minimum depth of 24 inches in concrete. Increase depth by 3 inches for each additional foot of fence height over 4 feet.
3. Install braces on all terminals on fences without a top rail. No braces are required on fabric 6 feet in height or less where a top rail is specified. Install braces where fabric is over 6 feet in height. Where a top rail is used, attach the brace at the halfway point of the terminal post above grade and, where the rail is omitted, at the two-thirds point above grade. Do not install top rail unless specified in the Special Contract Requirements.
4. Adjust the post top elevations to provide a smooth visual fence profile. Install corner posts at horizontal breaks in the fence at 15° or more.
5. If alternate steel posts are used, provide fastening bands, caps, brace rail, rail ends, and truss rod attaching hardware compatible with the post sizes and styles selected.
6. Provide fence fabric with a 2-inch mesh. Use 11-gage wire in fabric heights of 48 inches or less and 9-gage wire in fabric heights greater than 48 inches. Provide Class D coating when zinc-coated steel fence fabric is provided. Knuckle both selvages on fabric less than 72 inches high. For fabric 72 inches or higher, knuckle one selvage and twist the other.
7. See Sheet 2 of 2 for hardware and gate requirements.

CHAIN LINK FENCE

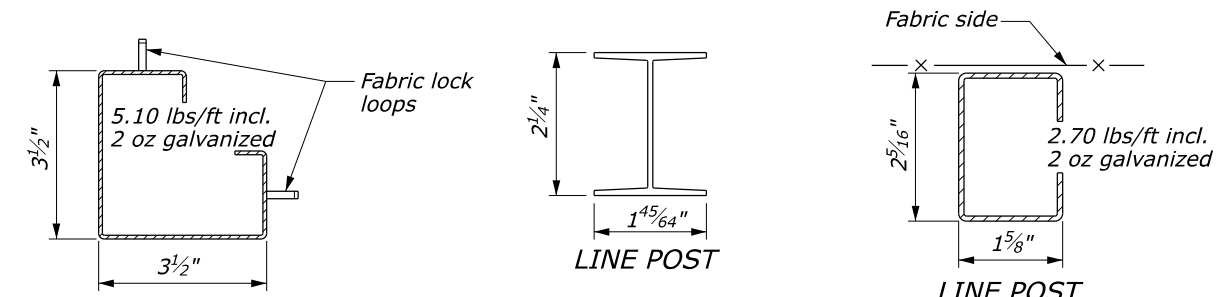
DESCRIPTION		CHAIN LINK FENCE POST SIZE AND WEIGHT TABLE									
		ROUND PIPE		HOT ROLLED SHAPE		ROLLED FORMED		ROLLED FORMED		ROLLED FORMED	
FENCE TYPE		Steel	Aluminum	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel
		Minimum yield strength Psi.									
		25,000	25,000	50,000	45,000	45,000					
Size and mass											
		dia. inch	mass lbs/ft	dia. inch	mass lbs/ft	dia. inch	mass lbs/ft	dia. inch	mass lbs/ft	dia. inch	mass lbs/ft
Brace rail & top rail	Type 1	1.66	2.27	1.660	0.786	1.66	1.40	-----	-----	1 1/4 x 1 5/8	1.40
	Type 2	1.66	1.82	-----	-----	1.66	1.40	-----	-----	1 1/4 x 1 5/8	1.40
Line post	Type 1	2.375	3.65	2.375	1.264	2.375	3.12	2 1/4 x 1 45/64	3.26	2 1/4 x 1 5/8	2.70
	Type 2	2.375	2.96	-----	-----	2.375	2.31	-----	-----	1 7/8 x 1 5/8	2.76
End, corner & pull post	Type 1	2.875	5.79	2.875	2.004	2.875	4.64	-----	-----	3 1/2 x 3 1/2	5.10
	Type 2	2.875	4.69	-----	-----	2.875	3.25	-----	-----	3 1/2 x 3 1/2	5.10



CHAIN LINK FENCE TIE DETAIL

END OR CORNER POST

ALTERNATE STEEL POST & BRACE SECTIONS



2.08 kg/m incl. 2 oz galvanized

TOP & BRACE RAIL





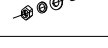

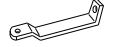




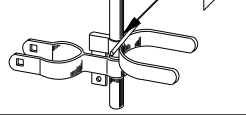
NO SCALE

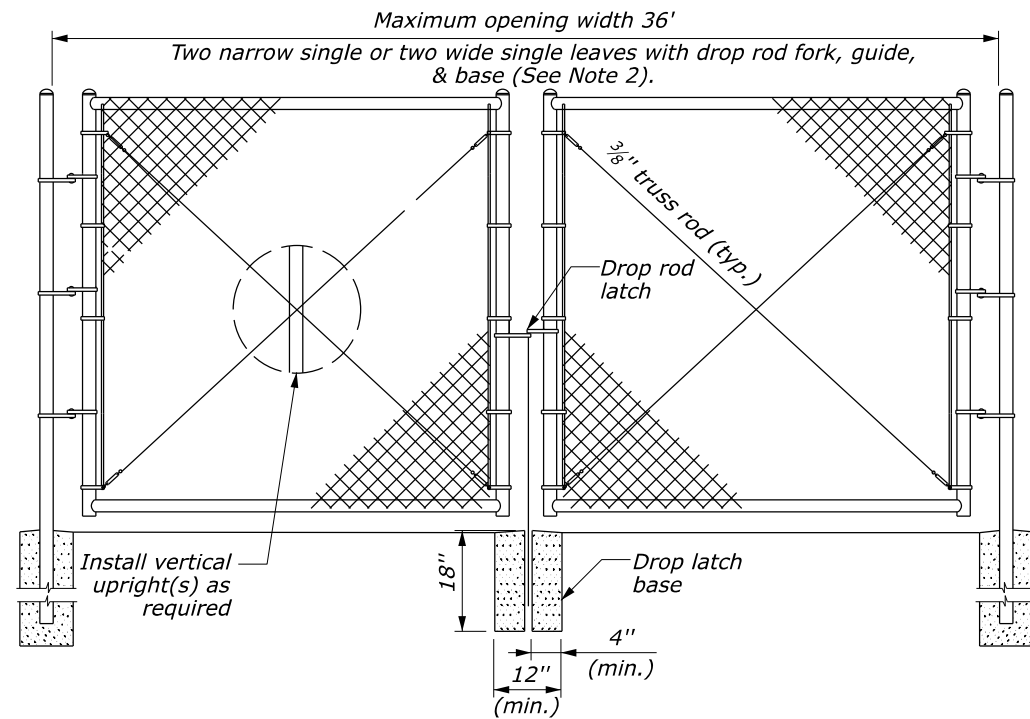
TRUSS ROD TIGHTENER DETAIL

WIRE SELVAGE DETAIL

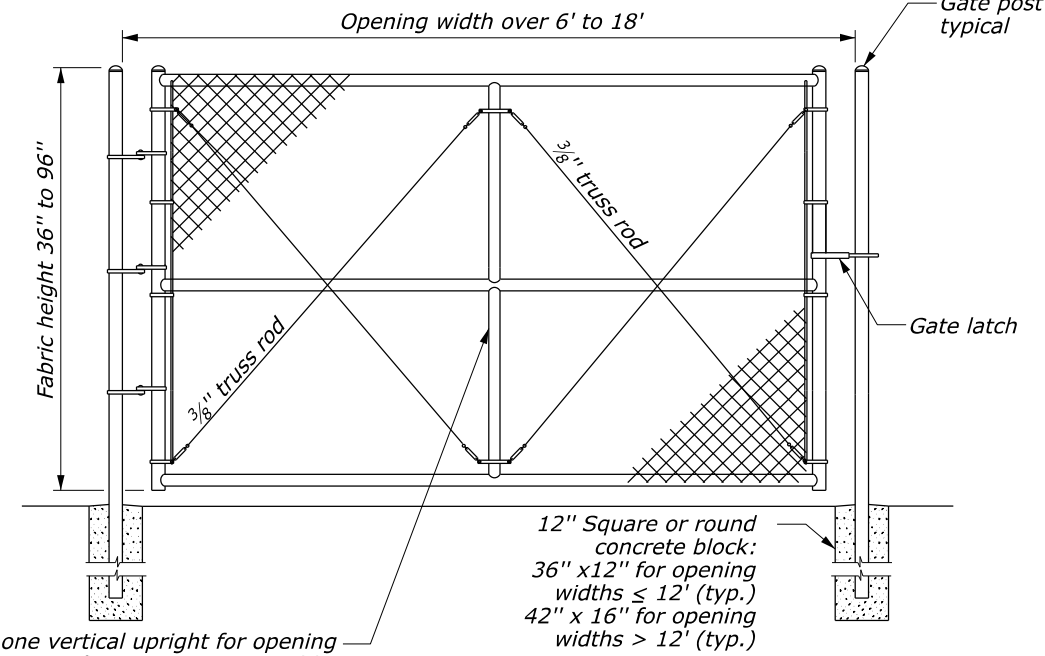
U.S. DEPARTMENT OF TRANSPORTATION, FHWA OFFICE OF FEDERAL LANDS HIGHWAY	EFLHD DETAIL E619-09
CHAIN LINK FENCE AND GATE	SPECIFICATION FP-14
Sheet 1 of 2	APPROVED FOR USE 06/2024

M:\Standards_and_Details\EFLHD_Detail\Drawings\FP-24\619-Fences, Gates, Cattle Guards and Bollard Posts\61909_detail-fp14.dgn [Sheet 1] 13 June 2024 9:27 AM

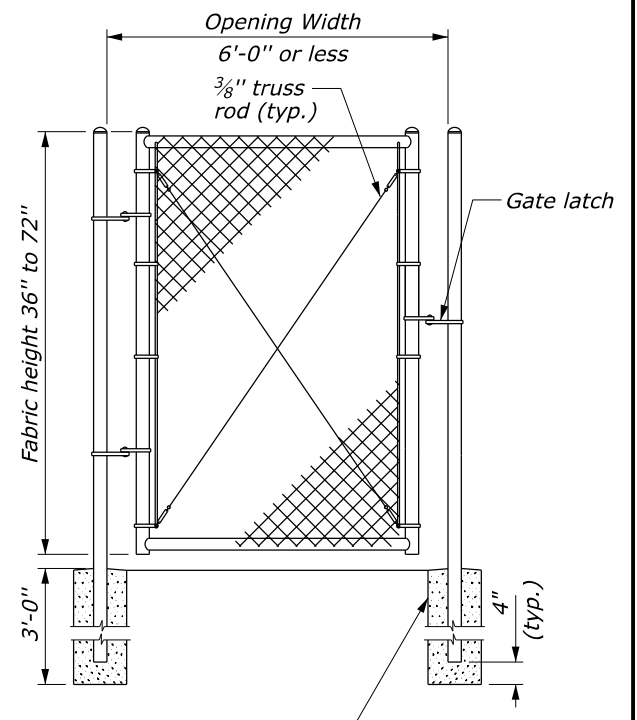
HARDWARE ITEM DESCRIPTION	STANDARD REQUIREMENTS
Brace rail and top rail 	See table on Detail E619-09, Sheet 1 of 2
Line post 	See table on Detail E619-09, Sheet 1 of 2
Corner; end and pull posts 	See table on Detail E619-09, Sheet 1 of 2
Post cap 	Cast non-ferrous alloy or galvanized pressed steel cap must fit snugly on post and gate top
Line post cap 	Galvanized pressed steel minimum $\frac{3}{32}$ " thickness or galvanized malleable ferrous alloy
Tension band 	Minimum $\frac{3}{32}$ " x $\frac{5}{16}$ " galvanized steel
Brace band 	Minimum $\frac{3}{32}$ " x $\frac{5}{16}$ " galvanized steel
Band bolt 	Minimum $\frac{5}{16}$ " x $1\frac{1}{4}$ " galvanized carriage bolt, (Lock washer & flat washer for each band)
Rail end 	Galvanized pressed steel or galvanized malleable ferrous alloy minimum $\frac{3}{8}$ " thickness on back bolting appendage
Brace rail end 	Galvanized pressed steel or galvanized malleable ferrous alloy minimum $\frac{3}{8}$ " thickness on back bolting appendage
Truss rod tightener 	Minimum $\frac{1}{4}$ " formed galvanized steel
Truss rod 	$\frac{3}{8}$ " galvanized, NC threaded rod, lock washer, & flat washer with two 90° bends opposite of threaded end
Top rail sleeve 	Galvanized steel 0.051" minimum thickness by 6" minimum length
Tension bar 	Minimum $\frac{3}{16}$ " x $\frac{3}{4}$ " galvanized steel
Fence fabric 	2" diamond mesh fabric, See Note 7 on Detail E619-09, Sheet 1 of 2
Tie wires 	Minimum 9 gage aluminum with one hooked end
Coil tension wire 	0.177" minimum diameter metallic coated wire
Gate latch 	Minimum $\frac{1}{8}$ " galvanized pressed steel or malleable ferrous alloy. 1 latch per each single gate with bent minimum $\frac{3}{8}$ " attachment bolt, washer & nut.
Frame hinge 	Minimum $\frac{1}{8}$ " galvanized pressed steel with 2 - $\frac{3}{8}$ " U-bolts, lockwasher & nuts per hinge. Use 2 hinges per gate leaf up to 8' in width and 3 hinges per gate leaf widths greater than 8'.
Drop rod latch & guide 	Minimum $\frac{1}{8}$ " galvanized pressed steel. Drop rod guide includes $\frac{3}{8}$ " x 3" carriage bolt with lock washer & nut. Weld drop rod fork to rod & paint with an approved zinc rich paint.



DOUBLE LEAF GATE



WIDE SINGLE LEAF GATE



NARROW SINGLE LEAF GATE

CHAIN LINK GATE							
POST AND FRAME SIZE AND MASS TABLE							
GATE LEAF WIDTHS		ROUND PIPE					
		Steel		Aluminum		Steel	
		Minimum yield strength Psi.					
		25,000	25,000	25,000	25,000	50,000	50,000
Size and mass							
		dia. inch	lbs/ft (min.)	dia. inch	lbs/ft (min.)	dia. inch	lbs/ft (min.)
6 feet or less	Gate	2.875	4.64	2.875	1.94	2.875	4.64
Over 6 feet to 12 feet	post	4.000	8.65	4.000	2.99	4.000	6.56
Over 12 feet to 18 feet	size	6.625	18.02	-----	-----	-----	-----
Outside frame member	frame	1.900	2.28	1.900	1.900	1.900	2.28
Interior bracing member	size	1.660	1.83	1.900	1.900	1.660	1.84

NO SCALE

NOTES:

1. Reinforce the gate frame corners with a malleable iron or pressed steel fitting designed for the purpose or shop weld the corners. Grind smooth all welds and paint each gate with the necessary hinges, latch, and drop rod locking device design for the type of gate posts and used on the project. Provide positive type latching devices with provisions for pad locking at all gates. Provide keepers to retain the gate in the open position.
2. Use alternate gate frames constructed of steel section, other than pipe, as approved.
3. The design of the chain link hardware may vary from the details shown. Ensure all hardware and materials used in a single installation are uniform and compatible.

10 June 2024 7:45 PM C:\Users\lahouche\OneDrive\Desktop\Detail\Work\61909\Detail\fp-14.dgn [Sheet 2]