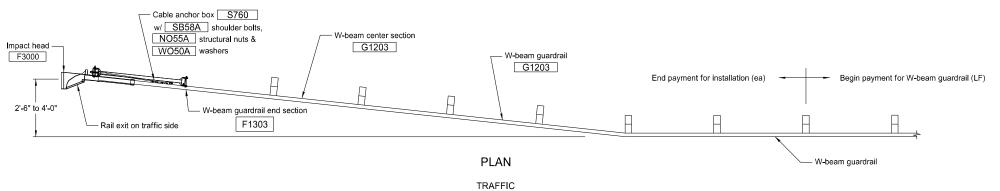
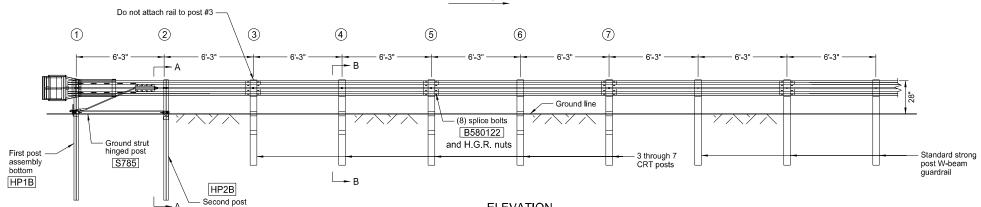
FLARED ENERGY ABSORBING TERMINAL





ELEVATION

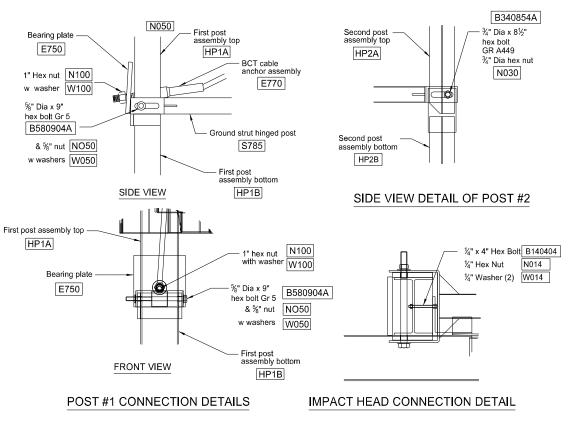
ITEM#	QTY	BILL OF MATERIALS
F3000	1	IMPACT HEAD
F1303	1	W-BEAM GUARDRAIL END SECTION, 12 GA
G1203	2	W-BEAM GUARDRAIL. 12 GA
HP1A	1	FIRST POST ASSEMBLY TOP
HP1B	1	FIRST POST ASSEMBLY BOTTOM
HP2A	1	SECOND POST ASSEMBLY TOP
HP2B	1	SECOND POST ASSEMBLY BOTTOM
P671	5	WOOD CRT POST
P675	5	TIMBER BLOCKOUT OR RECYCLED EQUIVALENT
E750	1	BEARING PLATE
S760	1	CABLE ANCHOR BOX
E770	1	BCT CABLE ANCHOR ASSEMBLY
S785	1	GROUND STRUT HINGED POST
3/03	_ '	HARDWARE
B140404	2	½" Dia x 4" HEX BOLT
WO14		½ DIB X 4 HEX BOLT
	2	
N014	- -	¼" HEX NUT
B580122	17	%" Dia x 1¼" SPLICE BOLT
B581802	4	% Dia x 10" H.G.R. BOLT (POSTS 3 THRU 6)
B580904A	1	%" Dia x 9" HEX BOLT GR 5
W050	5	%" WASHER
N050	22	%" Dia H.G.R. NUT
B340854A	1	¾" Dia x 8½" HEX BOLT GR A449
NO30	1	¾" Dia HEX NUT
N100	2	1" ANCHOR CABLE HEX NUT
W100	2	1" ANCHOR CABLE WASHER
SB58A	8	CABLE ANCHOR BOX SHOULDER BOLT
N055A	8	½" A325 STRUCTURAL NUT
W050A	16	11/16" OD x 1/16" ID A325 STR. WASHER

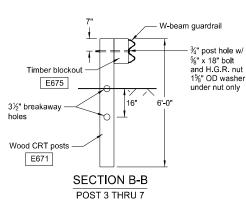
GENERAL NOTES

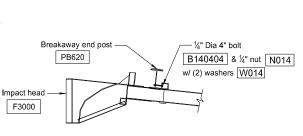
Use wood posts with the Flared Energy Absorbing Terminal except posts #1 and #2.

assembly bottom

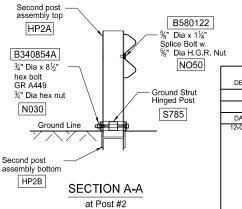
- Use galvanized bolts, nuts, cable assemblies, cable anchors, and
- Grade site as needed to prevent lower sections of the posts from protruding more than 4 inches above the ground (measured along
- Drive the lower section without the upper post attached. If the post is placed in a drilled hole, compact the backfill material satisfactorily to prevent settlement.
- When rock is encountered during excavation, use a 12" diameter post hole 20" into the rock surface, if approved by the Engineer. Place granular material in the bottom of hole approximately 21/8" deep to provide drainage. Field cut soil tubes to length, place in hole, and back fill with adequately compacted material excavated
- Place the breakaway cable assembly taut. Use a locking device (vice grips or channel lock pliers) to prevent the cable from twisting when tightening nuts.
- "Toe nail" the wood blockouts to the rectangular wood posts with two 20 penny galvanized nails in each post to prevent them from turning when the wood shrinks.
- Flare the Flared Energy Absorbing Terminal when the approach guardrail is parallel with the roadway. When the approach guardrail is flared at 16:1 to 10:1, flare the Flared Energy Absorbing Terminal at the flare rate of the guardrail. When the guardrail flare is between 10:1 and 7:1, turn the Flared Energy Absorbing Terminal parallel to the roadway.







IMPACT HEAD CONNECTING DETAIL



NORTH DAKOTA			
DEPARTMENT OF TRANSPORTATION			
10-11-13			
REVISIONS			
DATE	CHANGE		
12-02-20	Update notes to active voice.		

