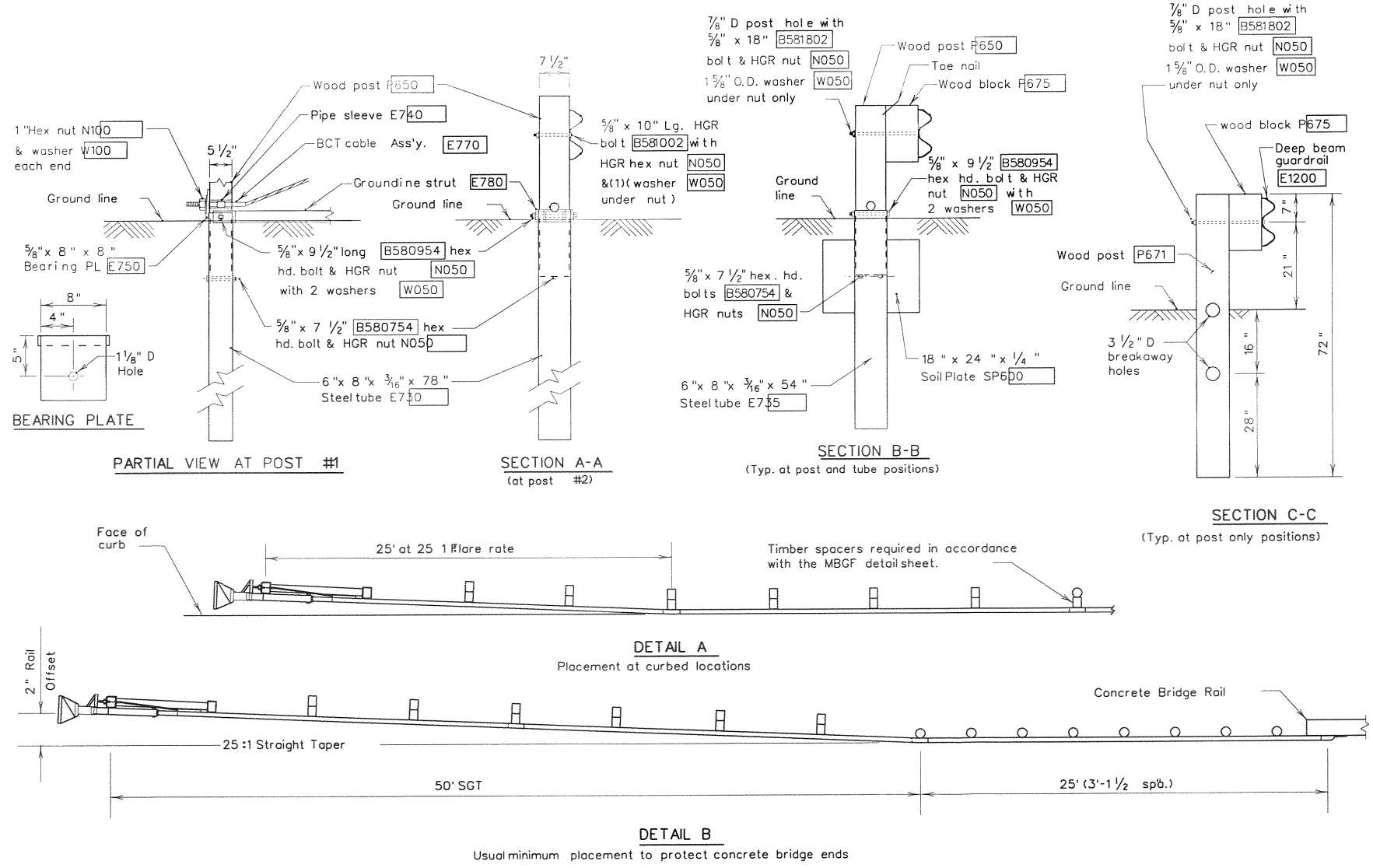
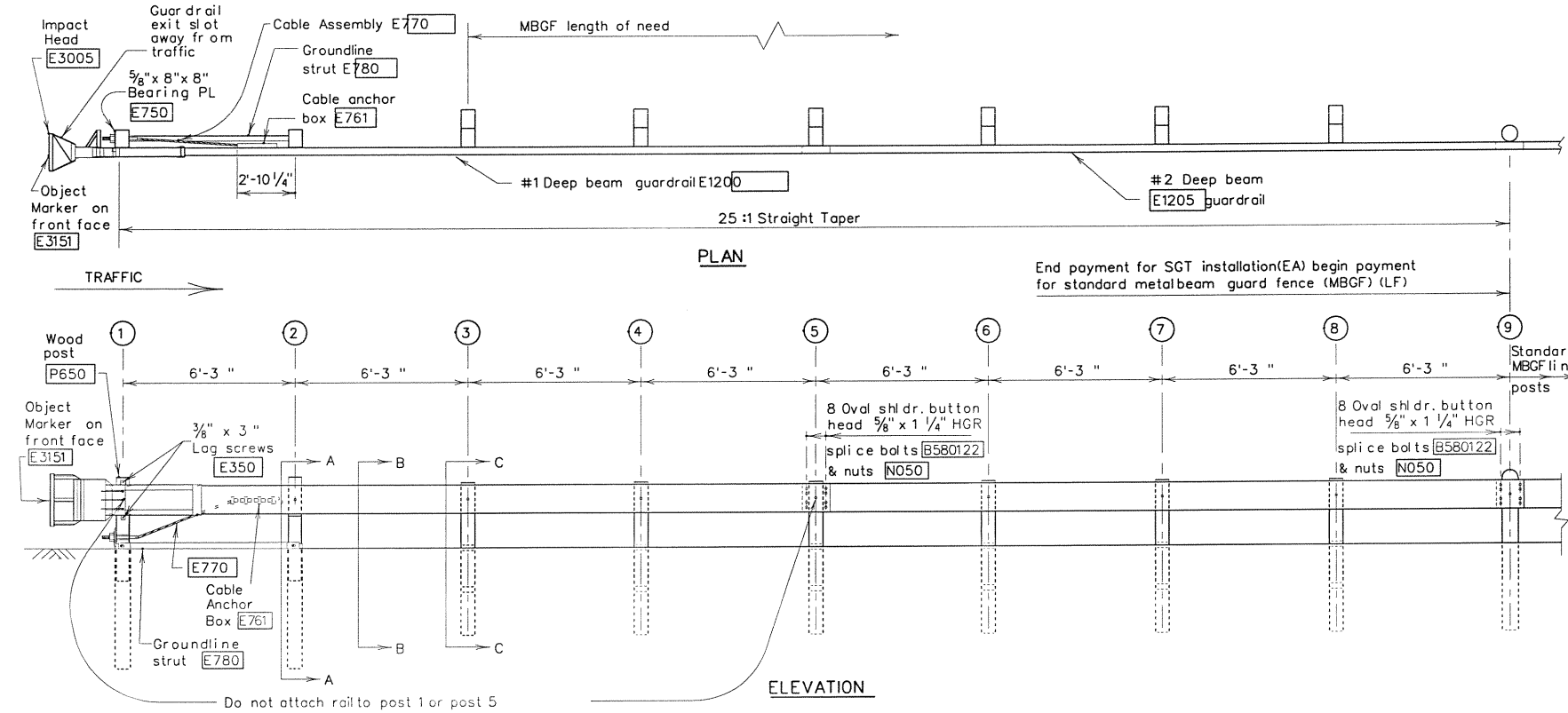


GENERAL NOTES

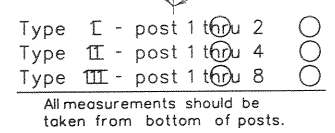
- The type of SGT unit will be specified elsewhere in the plans. (Numbers in circles indicate post position.)
 

	Post & Tube	Post Only
Type I	Posts 1 thru 2	Posts 3 thru 8
Type II	Posts 1 thru 4	Posts 5 thru 8
Type III	Posts 1 thru 8	None
- Wood posts are required with this guardrail end treatment.
- All bolts, nuts, cable assemblies, cable anchors, steel tubes & bearing plates shall be galvanized.
- For non-curb installations, the MBGF will be flared at a rate of 25:1 over the first 50' of the system to prevent the terminal head from encroaching on the shoulder. The flare may be decreased or eliminated for specific installations if directed by the Engineer. A 25:1 flare rate will be used at curb sections, beginning at post number 5 and ending at post number one.
- The steel tubes shall not protrude more than 4 inches above ground. Site grading may be necessary to meet this requirement.
- The steel tubes may be driven with an approved driving head. They shall not be driven with the wood post in the tube. If the steel tubes are placed in drilled holes, the backfill material, must be satisfactorily compacted to prevent tube settlement.
- When rock excavation is encountered, a 12 inch diameter post hole, 20 inches deep, may be used if approved by the Engineer. Granular material will be placed in the bottom of the hole approximately 2 1/2 inches deep to provide drainage. The steel tube sleeves will be field cut to 20 inches in length, placed in the hole and backfilled with adequately compacted material excavated from the hole.
- The breakaway cable assembly must be taut. A locking device, (vice grips or channellock pliers) should be used to prevent the cable from twisting when tightening the nuts.
- The wood blockouts shall be toe nailed to the rectangular wood posts to prevent them from turning when the wood shrinks.
- For curb installations, the soil tubes and posts shall be installed at the proper ground elevation behind the curb. The posts will then require field drilling new holes to accommodate the rail to post connection bolt to maintain the proper height of the rail above the gutter pan. The excess post length above the rail will be removed if directed by the Engineer.
- An object marker shall be installed on the front of the impact head as detailed on D&OM(VIA).
- A special site evaluation should be considered, prior to using this end treatment where there is less than 25 feet between the outlet side of the end treatment and any adjacent driving lane.



BILL OF MATERIAL

Code #	Type I Qty.	Type II Qty.	Type III Qty.	DESCRIPTION
E1200	1	1	1	#1 Deep Beam Guardrail (26' 6" - (1/2" Ga.)
E1205	1	1	1	#2 Deep Beam Guardrail (26' (12' Ga.)
E730	2	2	2	Steel Tube - 6" x 8" x 3/16"
E735	0	2	6	Steel Tube - 6" x 8" x 3/16"
SP600	0	2	6	Soil Plate - 18" x 24" x 1/4"
P650	2	4	8	Wood Posts - 5 1/2" x 7 1/2" x 45"
P671	6	4	0	Wood CRT Posts - 6" x 8" x 72"
P675	6	6	6	Wood Blockouts - 6" x 8" x 14"
E740	1	1	1	Pipe Sleeve - 2" Std. Pipe x 5 1/2"
E750	1	1	1	Bearing Plate - 8" x 8"
E761	1	1	1	Cable Anchor Box
E770	1	1	1	Cable Assembly
E780	1	1	1	Groundline Strut
E3005	1	1	1	Impact Head
HARDWARE				
B580754	2	6	14	5/8" x 7 1/2" Hex Hd. Bolt
B580954	2	4	8	5/8" x 9 1/2" Hex Hd. Bolt (Top of Tubes)
W050	11	15	23	3/8" Washers
B581002	1	1	1	5/8" x 10" HGR Post Bolt (Post 2)
B580122	16	16	16	5/8" x 1 1/4" HGR Splice Bolt
B581802	6	6	6	5/8" x 18" HGR Post Bolt (Posts 3 thru 8)
N050	27	33	45	5/8" HGR Nut (16-Spl, 7-Posts, 2-Strut, 2 ea. at Tube 3 thru 8)
E350	2	2	2	3/8" x 3" Lag Screw
N100	2	2	2	1" Hex Nut (Anchor Cable)
W100	2	2	2	1" Washer (Anchor Cable)
E3151	1	1	1	Object Marker - (18" x 18")



Type I - post 1 thru 2  
 Type II - post 1 thru 4  
 Type III - post 1 thru 8

All measurements should be taken from bottom of posts.

**Texas Department of Transportation**  
 Design Division (Roadway)

**SINGLE GUARDRAIL TERMINAL**  
 (BEST 350)

**SGT(5)-97**

FILE: SGT597.dgn	DN: MAM	CK: MAM	DW: BR	CK: MAM	NEG:
ORIG DATE: FEBRUARY 1997	DIST	FED REG	FEDERAL AD PROJECT	SHEET	
REVISIONS			6	28	
			COUNTY	CONTROL	SECT
				JOB	HIGHWAY

R = Radius  
 D = Diameter

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LEVELS DISPLAYED	1
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