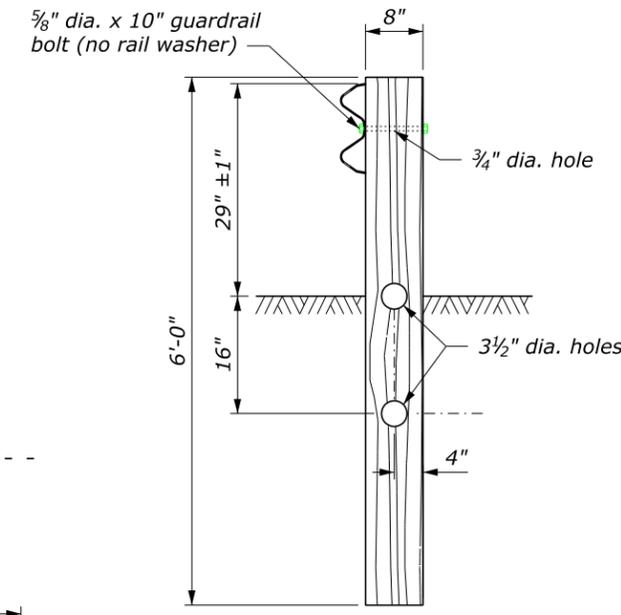
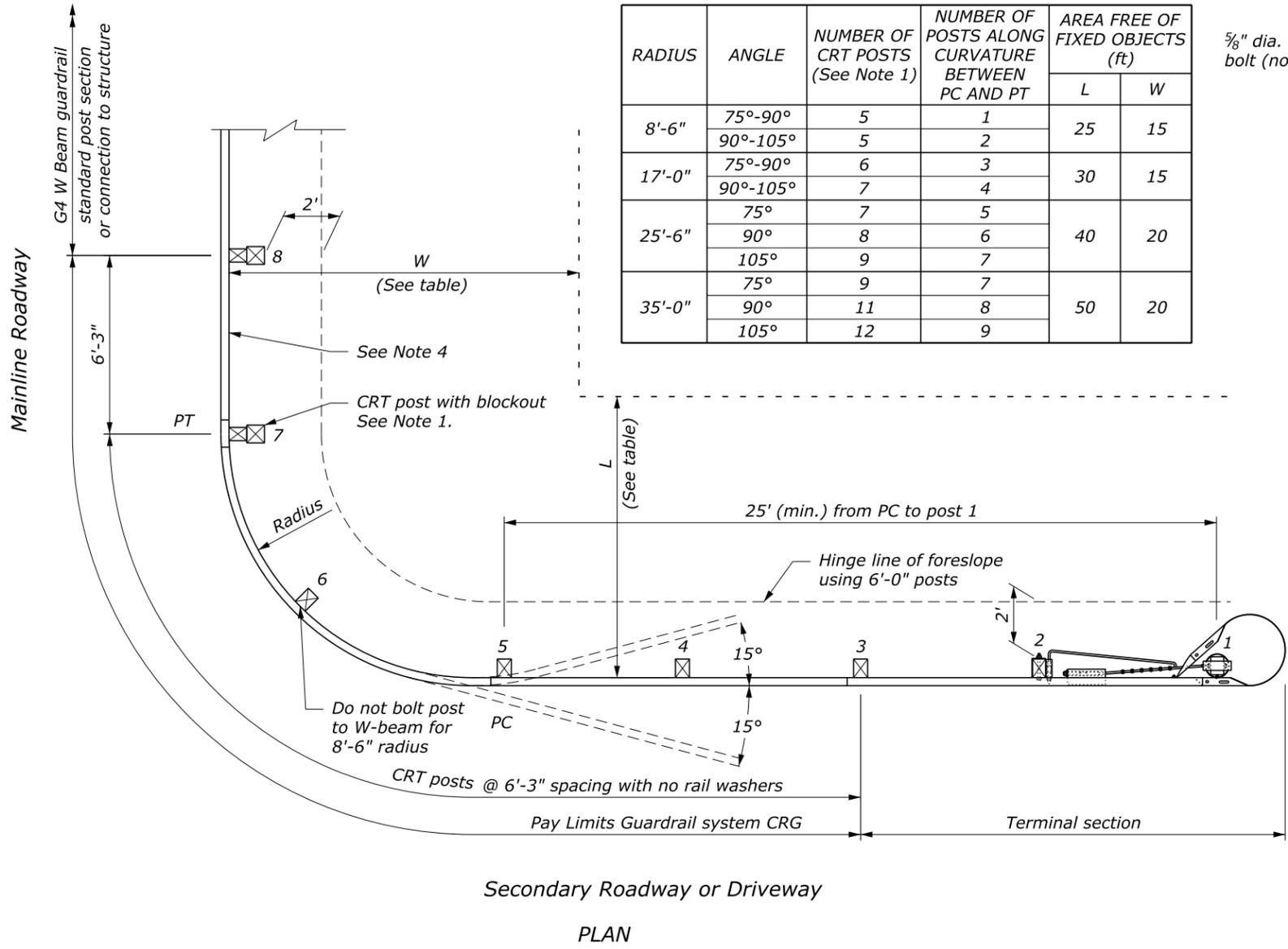


RADIUS	ANGLE	NUMBER OF CRT POSTS (See Note 1)	NUMBER OF POSTS ALONG CURVATURE BETWEEN PC AND PT	AREA FREE OF FIXED OBJECTS (ft)	
				L	W
8'-6"	75°-90°	5	1	25	15
	90°-105°	5	2		
17'-0"	75°-90°	6	3	30	15
	90°-105°	7	4		
25'-6"	75°	7	5	40	20
	90°	8	6		
	105°	9	7		
35'-0"	75°	9	7	50	20
	90°	11	8		
	105°	12	9		

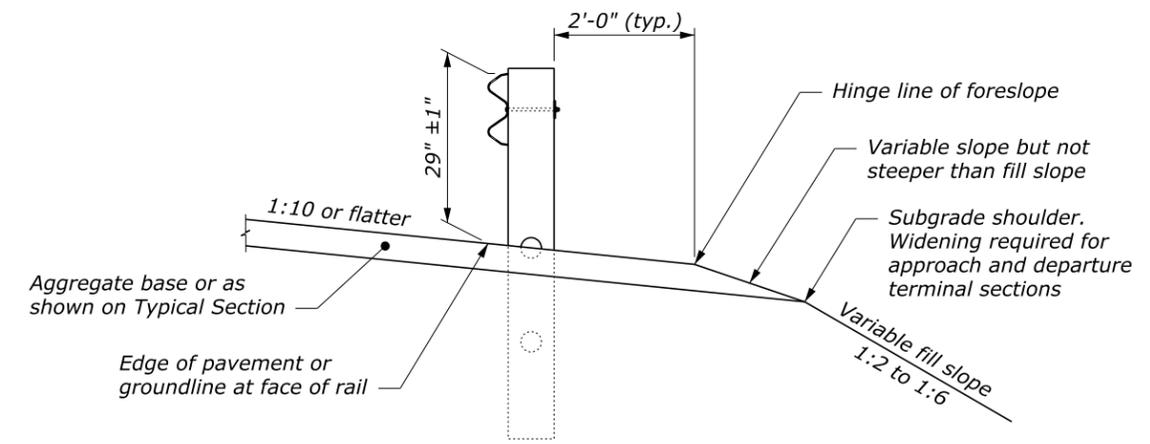


CRT POST DETAIL
POSTS #3 - #7
See Note 1

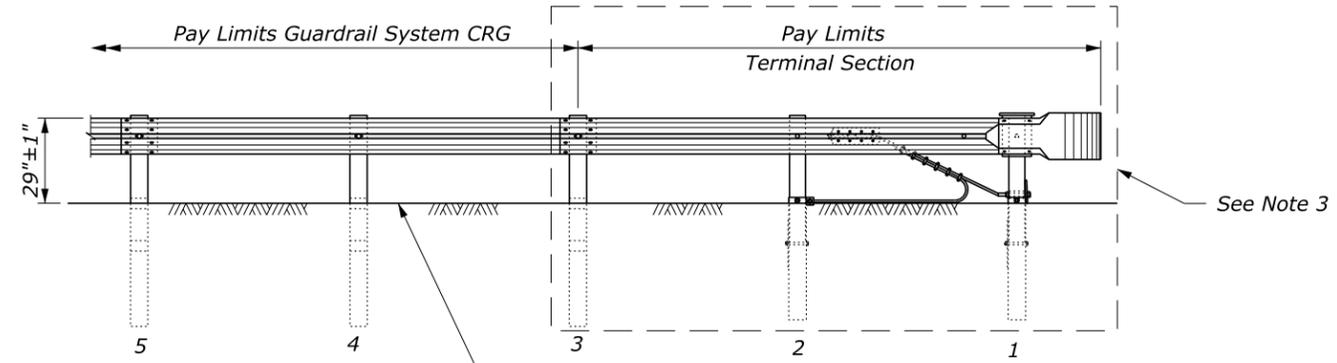
- NOTE:**
- CRT posts include those posts between the terminal and PT, plus the post with block at Post #7.
 - Do not use this layout when speeds are in excess of 45 MPH.
 - See Detail 617-22 for terminal section shown. The use of the Type CRT terminal is limited to driveways, service roads, and low speed minor road approaches. Use the appropriate TL-2 or TL-3 terminal on all other roadway approaches.
 - If the CRG will be connected to transition rail at Post 8, add a standard post and block midway between Posts 7 and 8.
 - Dimensional tolerances not shown or implied are intended to be those consistent with the proper functioning of the part, including its appearance, and accepted manufacturing practices.



PLAN



TYPICAL GUARDRAIL CROSS SECTION



ELEVATION

GUARDRAIL SYSTEM CRG WITH CRT POSTS

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY DETAIL

CRG W-BEAM GUARDRAIL WOOD POSTS

DETAIL APPROVED FOR USE 04/2020
REVISID:

DETAIL
C617-21

NO SCALE

\$\$\$DATE\$\$\$
 \$\$\$TIMES\$\$\$
 \$\$\$DGN\$\$\$
 \$\$\$USER\$\$\$

NOTES TO THE DESIGNER
Last Updated: April 2020

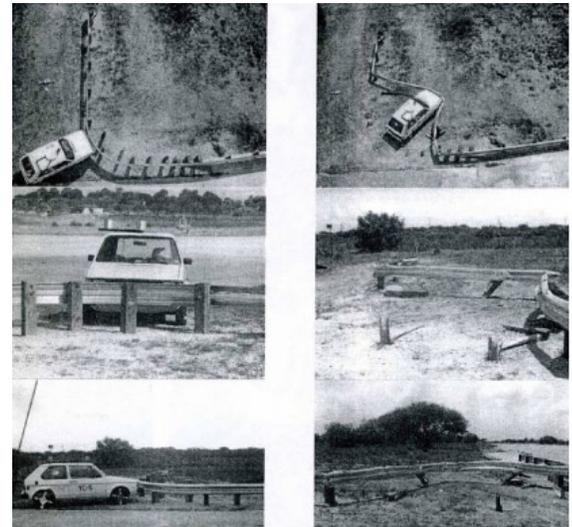
CRG W-Beam Guardrail, Wood Posts

General Information

Appropriate Applications.

- CRG W-beam guardrail is typically used when a minor road or driveway intersects a main road close to a bridge.
- According to the AASHTO *Roadside Design Guide* Section 5.6.6, this system may be used on all high-speed routes, until an acceptable system is developed. Research and development of a more acceptable system is underway.

Crash Test Criteria	NCHRP Report 230
Test Level	TL-2
FHWA Eligibility Letter	FHWA Technical Advisory T5040.32
TF 13 Designator	SGR40
Crash Test Report	TTI report 405160-10



(a) Before test (b) After test
Figure 2.16 Impact conditions and YC-5 system damage (3)

From TTI Report 405160-10

Limitations

- The FLH drawing is based on the guidance provided in FHWA Technical Advisory T5040.32.
- Guidance for installing the short-radius guardrail is given for systems with radius sizes ranging between 8.5 ft and 35 ft. The FHWA guidance does not address larger radii above 35 ft.

Layout Guidance.

- See AASHTO *Roadside Design Guide*, Section 5.6.6.

Applicable SCRs

Section 563 (if weathering agent applied to galvanized elements)
Section 617
Section 710
Section 725 (if weathering agent applied to galvanized elements)

Typical Pay Item Used

- 61701-4100 Guardrail system CRG, type 2, class A [LNFT] for galvanized steel
- 61701-4350 Guardrail system CRG, type 4, class B [LNFT] for weathering steel

Updates

February 2019

- New Detail drawing.

April 2020

- Revised dimensioning on plan view and revised notes