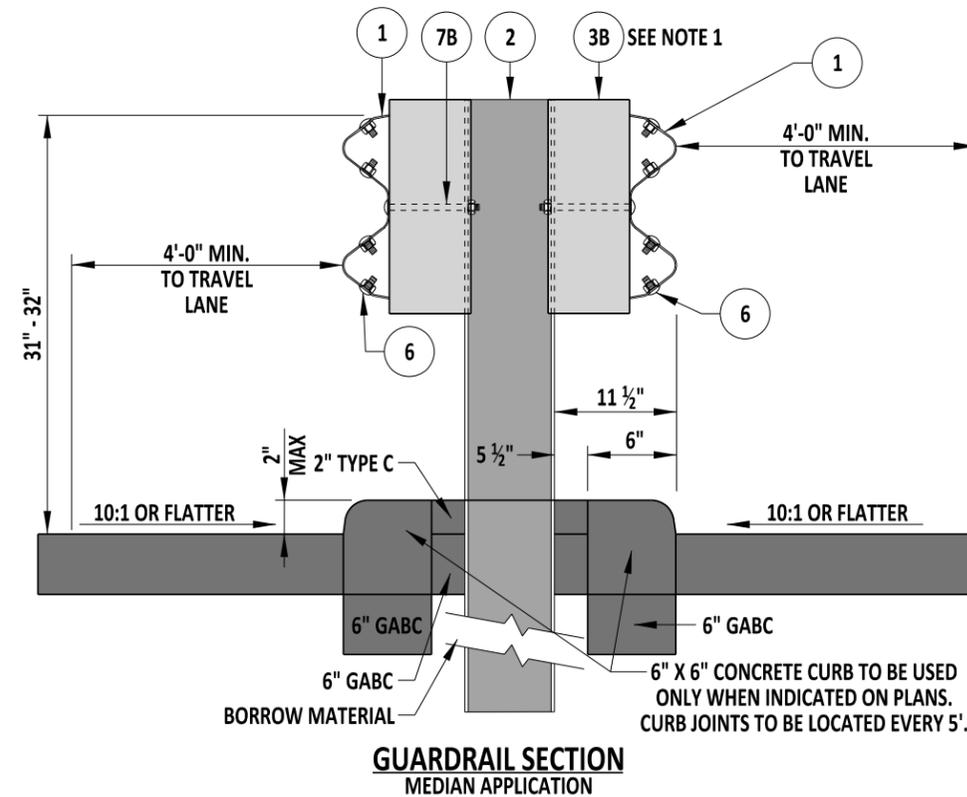


**GUARDRAIL SECTION**  
SHOULDER APPLICATION

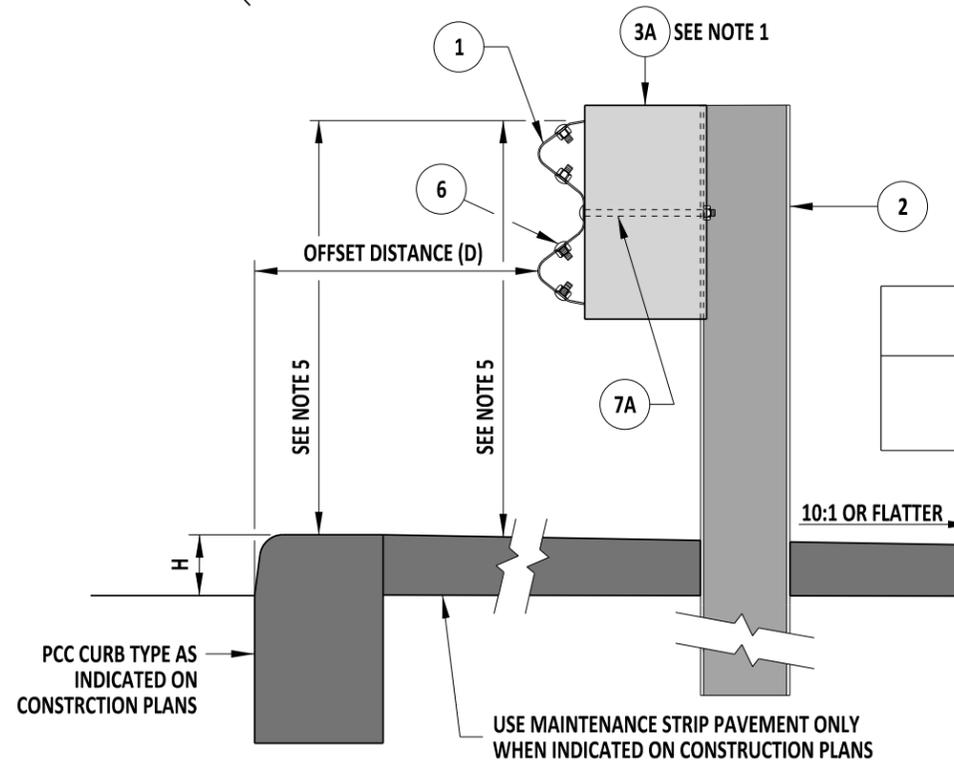
TYPE	POST SPACING	CLEAR AREA BEHIND POST
1	6'-3"	4'-0" MIN
2	3'-1 1/2"	2'-6" MIN

**NOTES:**

- 1). SEE STANDARD SPECIFICATION FOR OFFSET BLOCK MATERIALS.
- 2). ON ROADWAYS WITH A POSTED SPEED LESS THAN OR EQUAL TO 50 MPH, WHERE THE FACE OF THE GUARDRAIL IS TO BE PLACED FLUSH WITH THE FACE OF THE CURB, THE HEIGHT OF THE CURB SHALL BE NO MORE THAN 6 INCHES. THE FACE OF THE GUARDRAIL SHALL BE INSTALLED FLUSH WITH THE FACE OF THE CURB OR NO MORE THAN 6 INCHES BEHIND THE FACE OF THE CURB.
- 3). ON ROADWAYS WITH POSTED SPEEDS GREATER THAN 50 MPH, WHERE THE FACE OF THE GUARDRAIL IS TO BE PLACED FLUSH WITH THE FACE OF THE CURB, THE HEIGHT OF THE CURB SHALL BE NO MORE THAN 4 INCHES. THE FACE OF THE GUARDRAIL SHALL BE INSTALLED FLUSH WITH THE FACE OF THE CURB OR NO MORE THAN 6 INCHES BEHIND THE FACE OF THE CURB.
- 4). H IS DEFINED AS THE MAXIMUM CURB HEIGHT FOR THE CURB/ GUARDRAIL APPLICATION.
- 5). GUARDRAIL HEIGHT MEASURED FROM TOP OF CURB SHALL BE 31"-32". GUARDRAIL HEIGHT MEASURED FROM GROUND SURFACE DIRECTLY ADJACENT TO FACE OF RAIL SHALL BE NO MORE THAN 34".
- 6). GUARDRAIL BEHIND CURB IS BASED ON MASH CRASH TEST REPORT TRP-03-237-10.



**GUARDRAIL SECTION**  
MEDIAN APPLICATION



**GUARDRAIL SECTION**  
BEHIND CURB APPLICATION

POSTED SPEED	D	H (SEE NOTE 4)
< 45 MPH	4'-0" MIN. - 12'-0" MAX. (SEE NOTE 6)	6" MAX



ENGINEERING SUPPORT  
*Paul Johnson*  
RECOMMENDED  
DATE 09/01/2020

TYPES 1-31, 2-31, AND 3-31 GUARDRAIL APPLICATIONS  
STANDARD NO. B-1 (2020)  
SHT. 3 OF 5

REVIEWED  
*Mike Long*  
DEPUTY DIRECTOR - DESIGN  
DATE 09/01/2020  
APPROVED  
*Shrey*  
CHIEF ENGINEER  
DATE 09/01/2020