GENERAL NOTES

1. This drawing shall be used where W-beam guardrail is specified along the outside shoulder of a multi-lane divided roadway to shield the piers of overhead structures.

2. The details on this drawing are typical guardrail layouts for shielding the piers of single or tandem overhead structures. The required length of guardrail shall be determined in accordance with Tables RPPG-1 and RPPG-2, and shall be as shown on the plans.

3. Dimensions and details not shown on this drawing shall be as shown on the plans.

TABLE RPPG-1

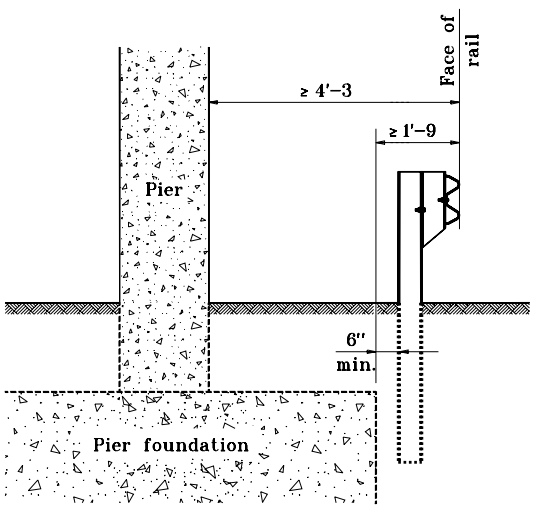
Outside (Right Side) Shoulder Pier
Approach Guardrail Lengths at Piers/Frame Bents
≤ 16' from Pavement Edge

Design Speed (mph)	Pier End Inside Clear Zone	Pier End Outside Clear Zone	Guardrail Pay Length (ft.)
	Required Minimum Length (ft.) in Advance of the Pier/Frame Bent End		
≥ 50	>of the rounded calculated length of need or 100'	100'	Required minimum length minus 25' for GP transition
<50	>of the rounded calculated length of need or 50'	50'	

TABLE RPPG-2

Outside (Right Side) Shoulder Pier
Approach Guardrail Lengths at Piers/Frame Bents
> 16' from Pavement Edge

Design Speed (mph)	Pier End Inside Clear Zone	Pier End Outside Clear Zone	Guardrail Pay Length (ft.)
	Required Minimum Length (ft.) in Advance of the Pier/Frame Bent End		
≥ 50	>of the rounded calculated length of need or 100'	100'	Required minimum length plus length to shield pier face
< 50	>of the rounded calculated length of need or 50'	50'	



Guardrail to Pier Clearance

INDIANA DEPARTMENT OF TRANSPORTATION

ROADSIDE PIER PROTECTION GUARDRAIL

SEPTEMBER 1997

STANDARD DRAWING NO. **E 601-RPPG-03**

ANTHONY L. UREMOVICH REGISTERED No. 18095 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGN STANDARDS ENGINEER

DETAILS PLACED IN THIS FORMAT 11-15-99

/s/ Anthony L. Uremovich 11-15-99
DESIGN STANDARDS ENGINEER DATE

/s/ Dorothy Zakrzewski 11-15-99
CHIEF HIGHWAY ENGINEER DATE

ORIGINALLY APPROVED 9-01-97