GENERAL NOTES

1. This sheet shall be used when 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 sheet are typical guardrail layouts for shielding the piers of single or twin overhead structures. The required length of guardrail shall be determined in accordance with Tables P-2-1 and P-2-2, and shall be as shown on the plans.

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

TABLE P-2-1

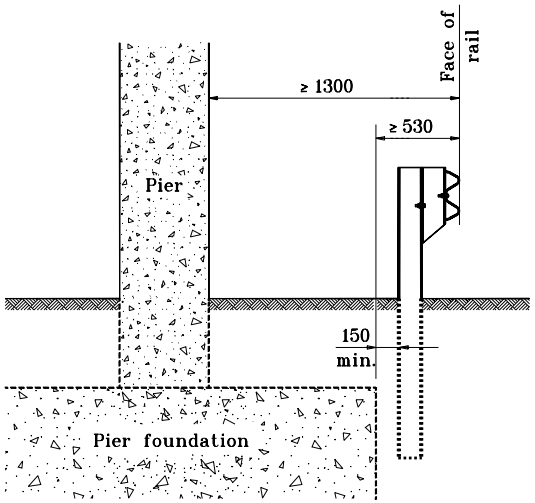
Outside (Right Side) Shoulder Pier
Approach Guardrail Lengths at Piers/Frame Bents
≤ 4.9 m from Pavement Edge

Design Speed (km/h)	Pier End Inside Clear Zone	Pier End Outside Clear Zone	Guardrail Pay Length (meters)
	Required Minimum Length (meters) in Advance of the Pier/Frame Bent End		
≥ 80	>of the rounded calculated length of need or 30	30	Required minimum length minus 7.62 for GP transition
< 80	>of the rounded calculated length of need or 15	15	

TABLE P-2-2

Outside (Right Side) Shoulder Pier
Approach Guardrail Lengths at Piers/Frame Bents
> 4.9 m from Pavement Edge

Design Speed (km/h)	Pier End Inside Clear Zone	Pier End Outside Clear Zone	Guardrail Pay Length (meters)
	Required Minimum Length (meters) in Advance of the Pier/Frame Bent End		
≥ 80	>of the rounded calculated length of need or 30	30	Required minimum length plus length to shield pier face
< 80	>of the rounded calculated length of need or 15	15	



Guardrail to Pier Clearance

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

ROADSIDE PIER PROTECTION GUARDRAIL

SEPTEMBER 1997

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

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

DESIGN STANDARDS ENGINEER

/s/ Anthony L. Uremovich 9-01-97
DESIGN STANDARDS ENGINEER DATE

/s/ Donald W. Lucas 9-01-97
CHIEF HIGHWAY ENGINEER DATE

Source Sheet: P-2