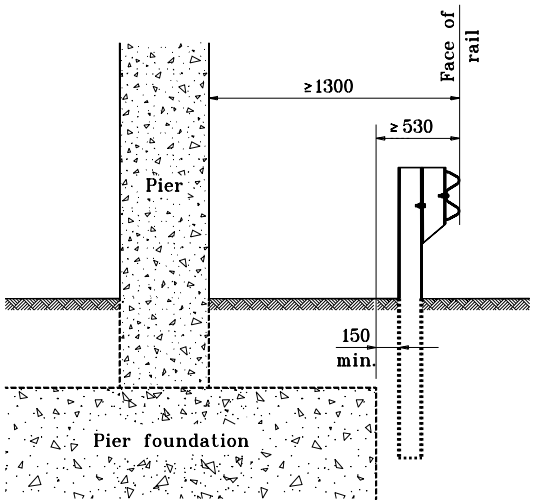
GENERAL NOTES

1. This sheet shall be used when W-beam guardrail is specified along a two-lane two-way roadway to shield the piers of overhead structures.

2. The required length of guardrail shall be determined in accordance with Tables P-1-1 and P-1-2, and shall be as shown on the plans.

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



Guardrail to Pier Clearance

TABLE P-1-1

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-1-2

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	

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

ROADSIDE PIER PROTECTION GUARDRAIL

SEPTEMBER 1997

STANDARD DRAWING NO. **601-RPPG-06**

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-1