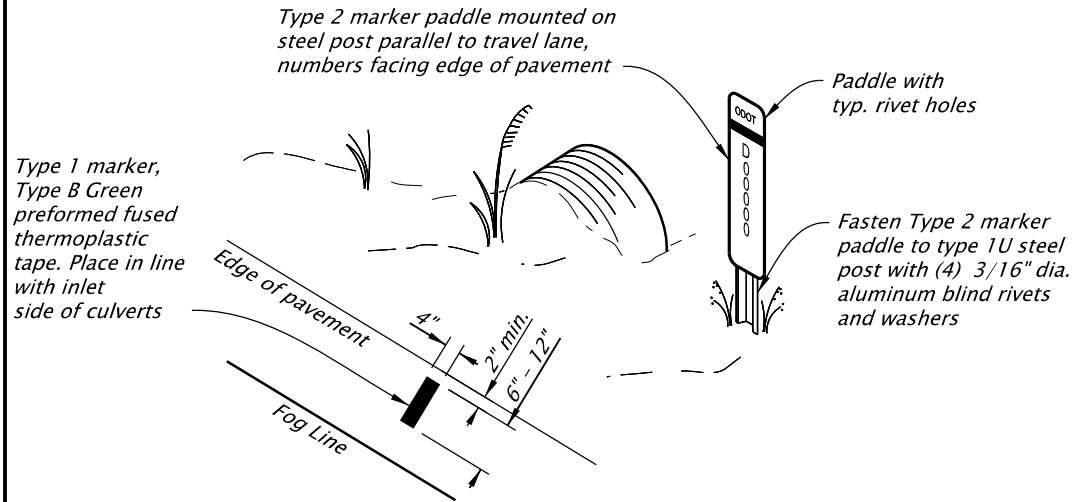
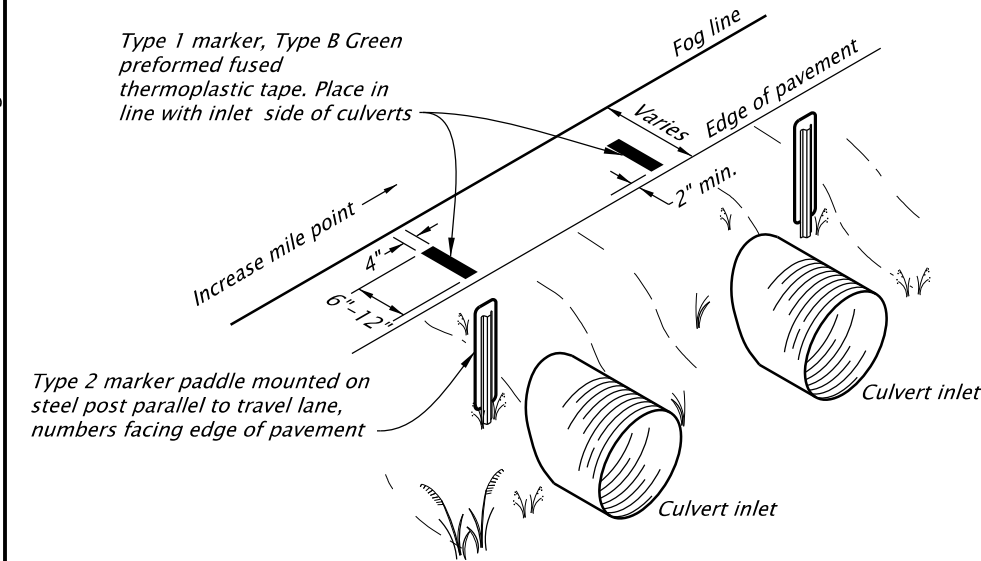


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SINGLE DRAINAGE FACILITY SINGLE PIPE

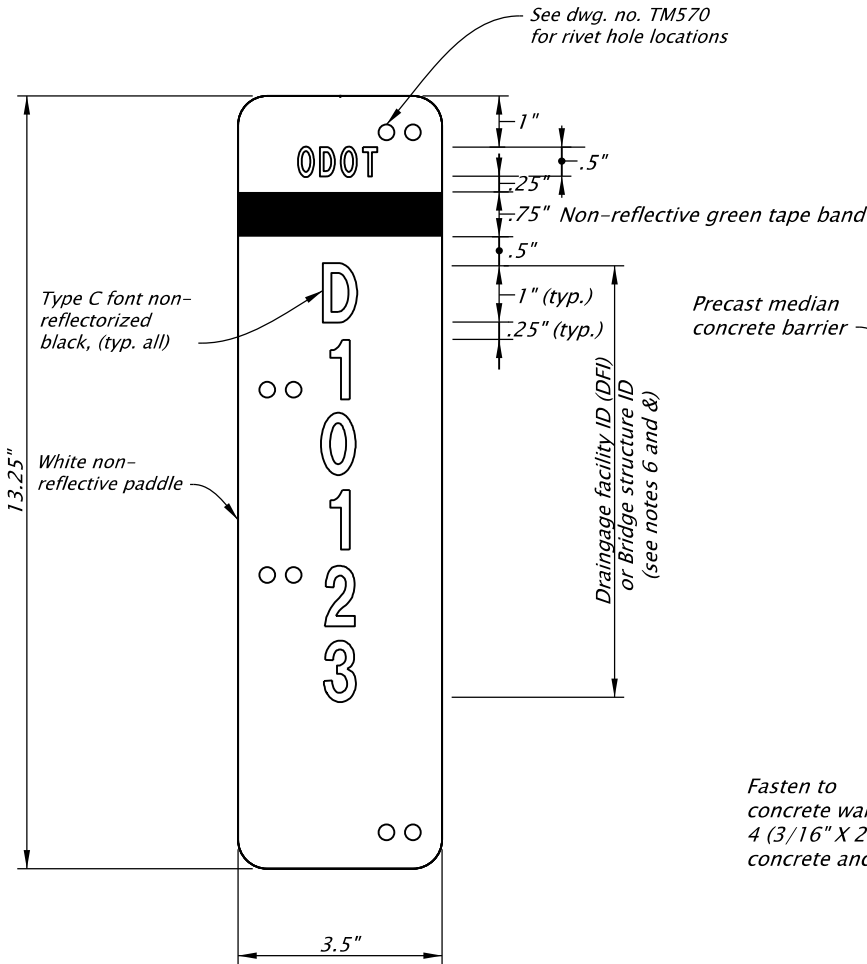


MULTIPLE DRAINAGE FACILITY

CULVERT DFI MARKER REQUIREMENTS	
Culvert Parameter/ Conditions	Culvert DFI Marker Direction
Culvert total span between 12" and less than 20 ft, and with a manufactured bottom	Culvert DFI marker required when located: • Under highway travel lanes and shoulder • Culverts parallel or adjacent to the highway
Box culverts, Rigid frames, Open bottom culverts	Culvert DFI marker not permitted
Culverts under private approaches	Culvert DFI marker not permitted
Culverts connected to stormwater systems by manholes or inlets	Culvert DFI marker not permitted

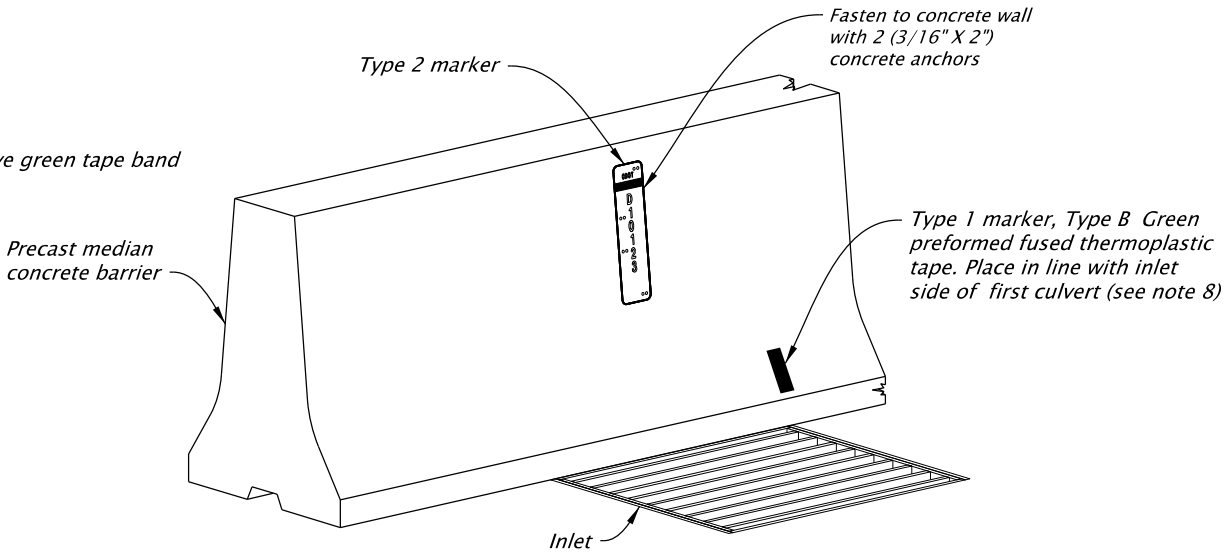
*Refer to the Culvert chapter in the Hydraulic Manual for more details
**When a culvert DFI is not permitted, check with Bridge Section or the Stormwater program within the Hydraulic Engineering Section.

TYPE 2 MARKER INSTALLATION

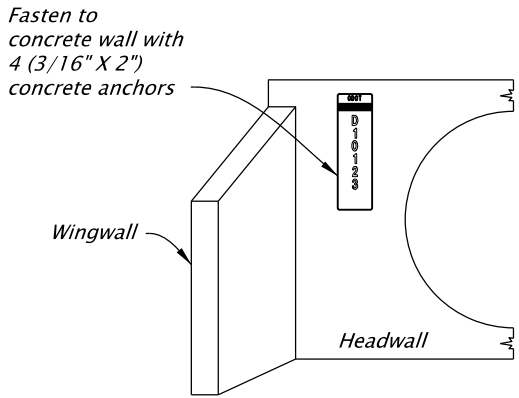


TYPE 2 MARKER

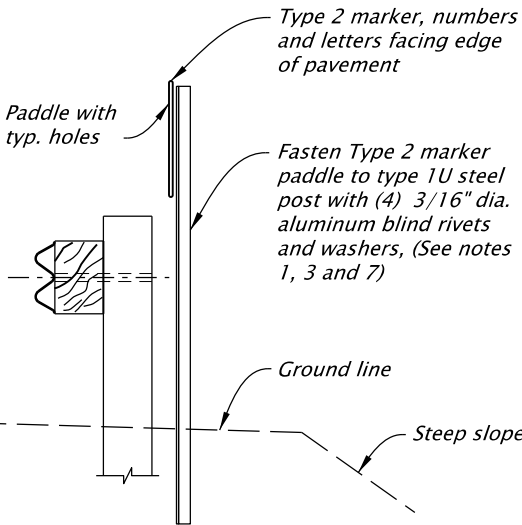
- NOTES:
- See Standard Drawing TM571 for 'Type 1U Steel Post Dimensions' details.
 - Place Type 1 marker on inlet edge of the pavement directly in line with the inlet.
 - Install Type 2 culvert markers parallel to travel lane and inconspicuous to traffic.
 - Do not install Type 2 marker in locations that obstruct or interfere with maintenance activities.
 - On non-divided highways place markers only at the culvert inlet side of highway.
 - On divided highways placing markers on the outlet side is optional.
 - Steep slopes where guardrail or concrete barrier are present, install Type 2 marker on slope side of barrier.
 - Install only a Type 1 marker or a Type 2 marker on concrete barrier.



CONCRETE BARRIER INSTALLATION



CONCRETE HEADWALL INSTALLATION



GUARDRAIL INSTALLATION

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.			
OREGON STANDARD DRAWINGS			
CULVERT ID MARKER			
2024			
DATE	REVISION DESCRIPTION		
01-2026	UPDATED DFI REQUIREMENTS		
CALC. BOOK NO.	RD11-01	SDR DATE	13-JAN-2026
			RD398

Effective Date: June 1, 2026 – November 30, 2026