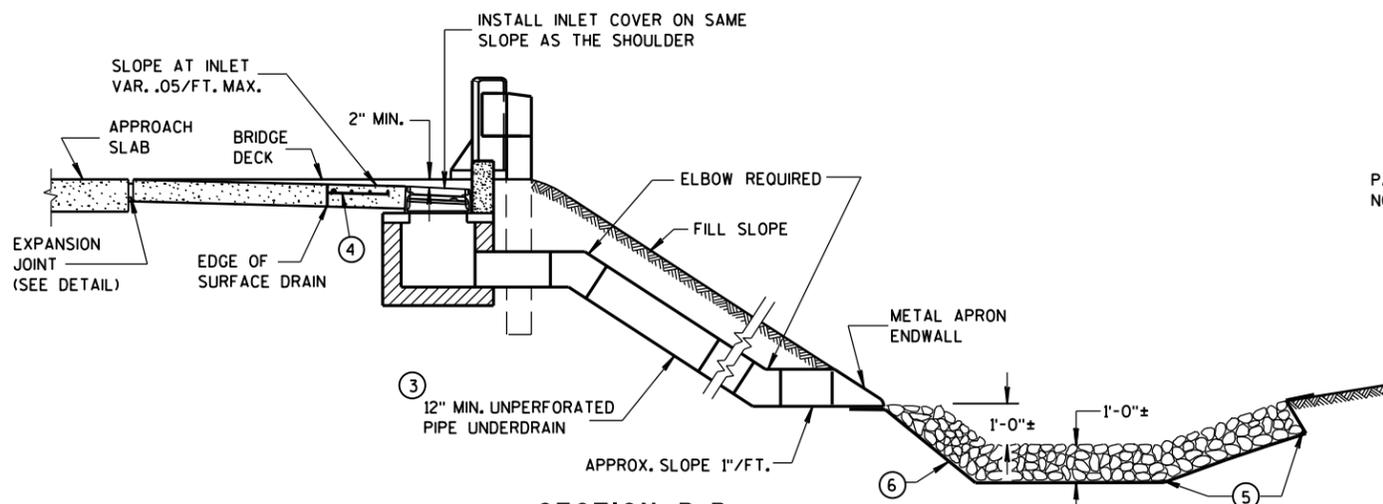
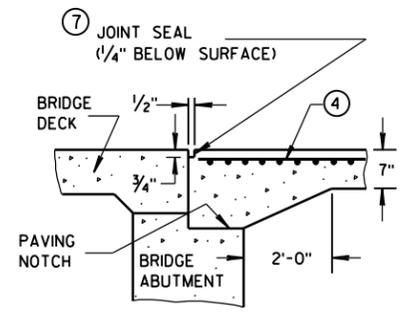


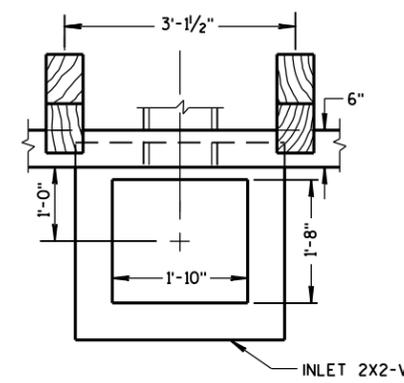
# 8D3: Concrete Surface Drains Drop Inlet Type at Structures



SECTION B-B



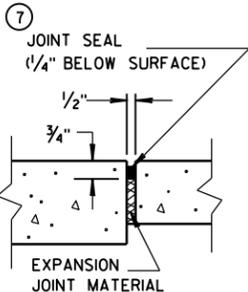
SECTION D-D



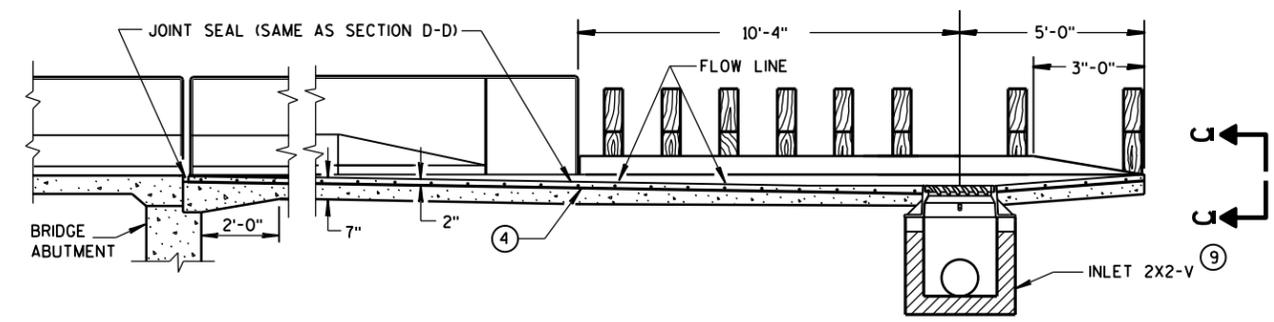
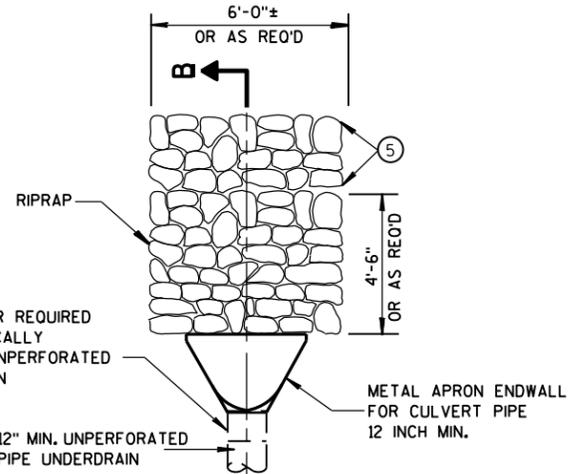
PLAN VIEW

## GENERAL NOTES

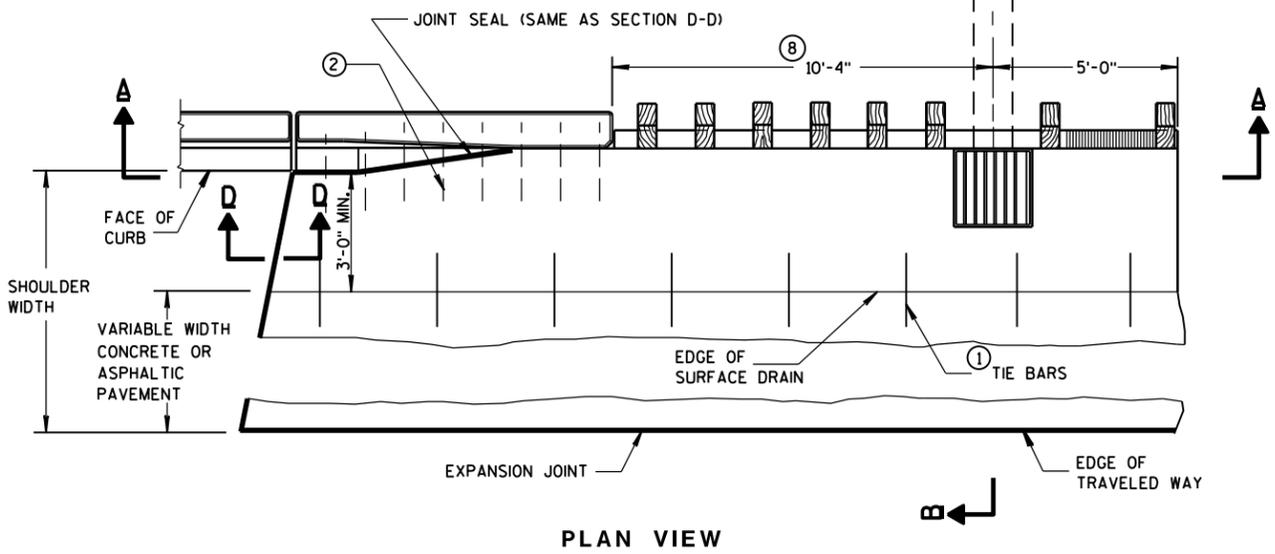
- DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.
- ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
- ① NO. 4 X 2'-0" TIE BARS SPACED AT 3'-0" CENTERS TO BE USED ONLY WHEN ADJACENT TO P.C. CONCRETE.
  - ② NO. 4 X 2'-0" TIE BARS SPACED AT 12" CENTERS TO BE PLACED BY BRIDGE CONTRACTOR, OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.
  - ③ THE PIPE UNDERDRAIN MAY BE ANY ONE OF THE SIX MATERIALS LISTED IN THE STANDARD SPECIFICATIONS SECTION 612.2 EXCEPT DRAIN TILE.
  - ④ MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C-C.
  - ⑤ LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.
  - ⑥ GEOTEXTILE FABRIC, TYPE 'R'
  - ⑦ HOT POURED SEALANT UNLESS OTHERWISE SPECIFIED.
  - ⑧ THIS DIMENSION MAY VARY DEPENDING ON THE SPACING OF POSTS FOR THE STEEL PLATE BEAM GUARD. THE TYPICAL LOCATION FOR THE SURFACE DRAIN IS WHERE THE POST SPACING WIDENS TO 3'-1/2".
  - ⑨ SEE CURRENT STANDARD DETAIL DRAWINGS 8A5 AND 8C7 FOR DETAILS.



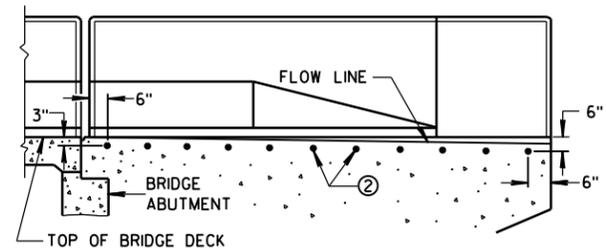
EXPANSION JOINT DETAIL



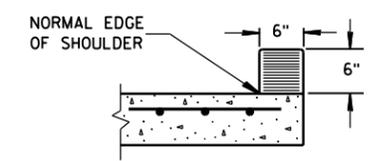
SECTION A-A



PLAN VIEW



LOCATION OF TIE BARS IN WINGWALL



SECTION C-C

<b>CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 9/4/08 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	

6

6

S.D.D. 8 D 3-6

S.D.D. 8 D 3-6

Concrete Surface Drains Drop Inlet Type at Structures

References:

NONE

Bid items associated with this drawing:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
416.0610	Drilled Tie Bars.....	EACH
416.1010	Concrete Surface Drains.....	CY
416.1015	Concrete surface Drains HES.....	CY
521.1012	Apron Endwalls for Culvert Pipe Steel 12-Inch.....	EACH
610.0100	Riprap Light.....	CY
610.0200	Riprap Medium.....	CY
611.0301	Inlets Type 1.....	EACH
611.0654	Inlet Covers Type V .....	EACH
612.0212	Pipe Underdrain Unperforated 12-Inch.....	LF
645.0130	Geotextile Type R .....	SY

Standardized Special Provisions associated with this drawing:

<u>STSP NUMBER</u>	<u>TITLE</u>
NONE	

Other SDDs associated with this drawing:

- [SDD 8a5](#) Inlet cover sheet "c" is required.
- [SDD 8c7](#) Inlets 2x2-FT, 2x2.5-FT, & 2.5x3-FT is required.
- [SDD 8f1](#) Apron Endwalls for Culvert Pipe is required.

Design Notes:

- Specify type of surface drain required at each structure.
- When tie bars (see general note 2) are not shown in the bridge drawings, include as "drilled tie bars."

Contact Person:

Ann-Marie Kirsch (608) 267-3766