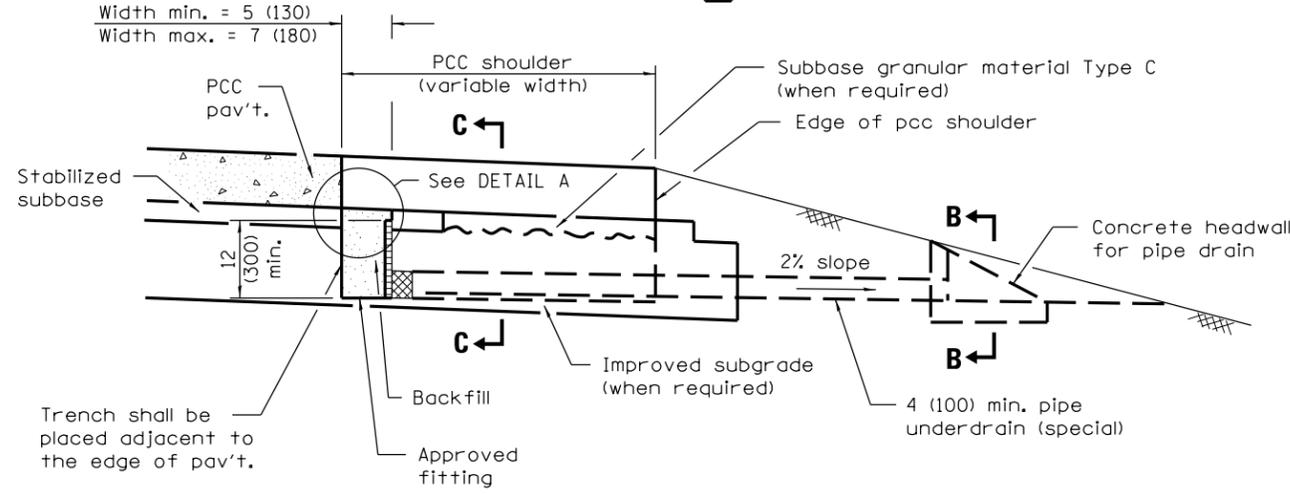
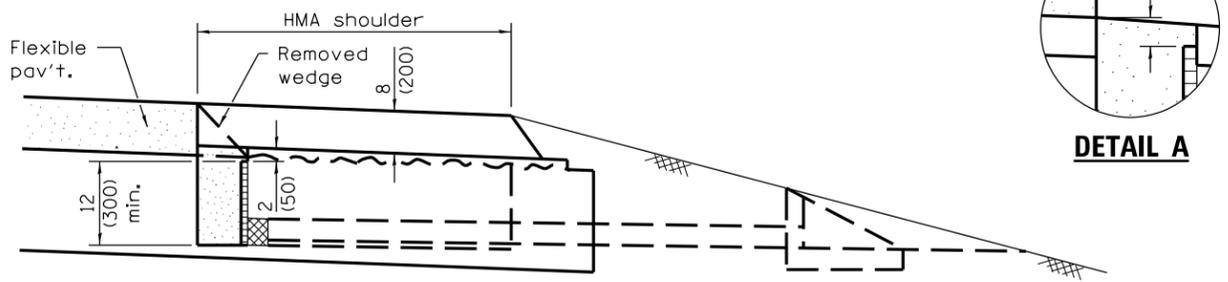


**PLAN**



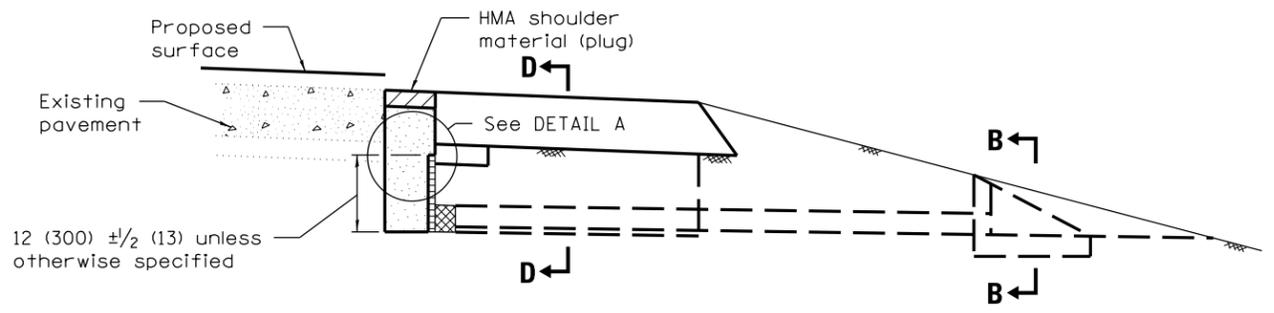
**SECTION A-A  
(PCC SHOULDER)**



**SECTION A-A  
(HMA SHOULDER)**

(Dimensions and notes not shown shall be as shown in the above Section A-A)

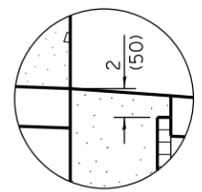
**NEW CONSTRUCTION  
(TRENCH FOR DRAINAGE MAT UNDERDRAIN OPTION)**



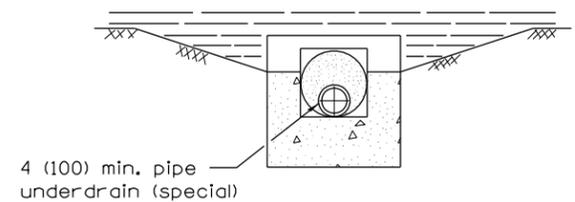
**SECTION A-A**

**EXISTING CONSTRUCTION  
(TRENCH FOR DRAINAGE MAT UNDERDRAIN OPTION)**

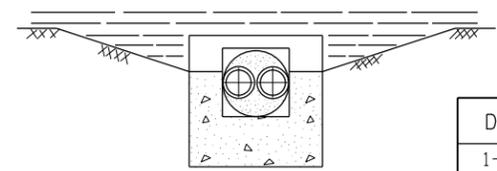
(Except as noted or shown, dimensions and notes specified for Existing Construction are the same as those of New Construction)



**DETAIL A**



**SECTION B-B**



**SECTION B-B  
(Sag locations)**

**GENERAL NOTES**

See Standard 601101 for details of concrete headwall.

See Standards 482001, 482006 and 483001 for details of shoulders not shown.

The 24 (600) radius on the drainage fitting is only a minimum. Larger radii meeting the approval of the Engineer may be substituted.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-11	Added 'PCC' and 'HMA' to SECTION A-A titles on Sheet 2.
1-1-09	Switched units to English (metric).

**SUB-SURFACE DRAINS**

(Sheet 1 of 2)

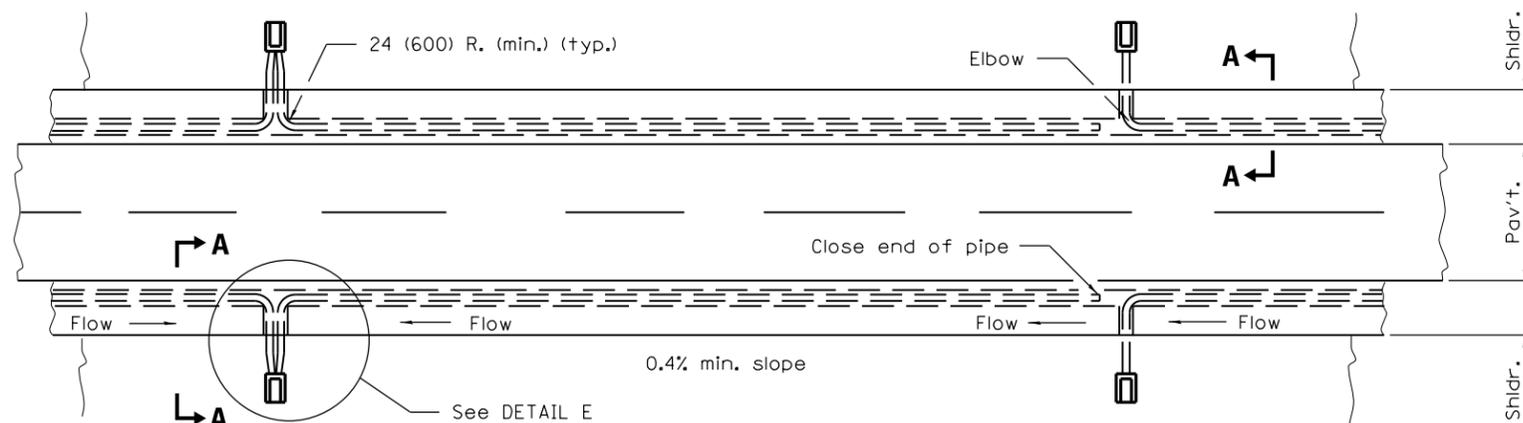
**STANDARD 601001-04**

Illinois Department of Transportation

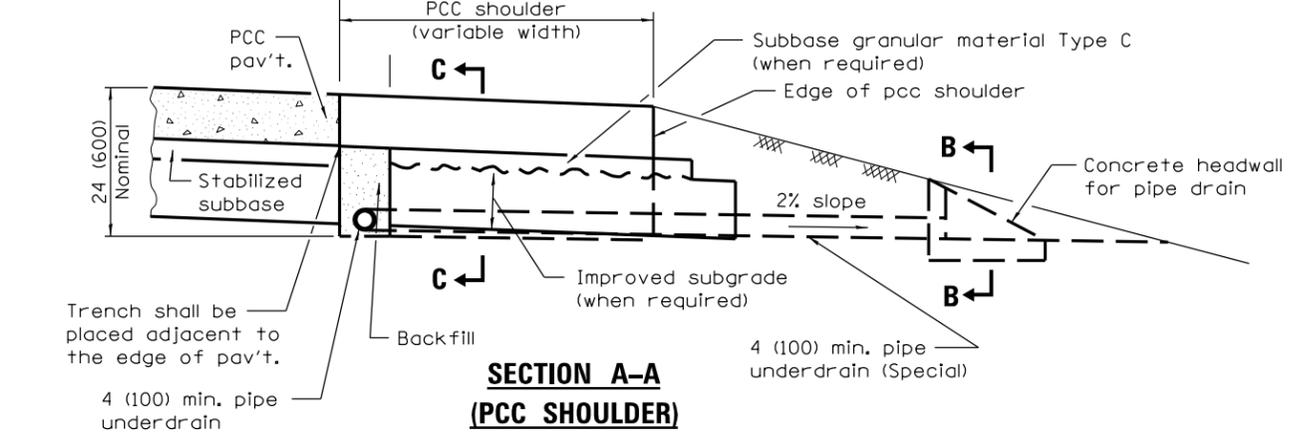
PASSED January 1, 2011  
*Michael Beard*  
 ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2011  
*Scott Schick*  
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97



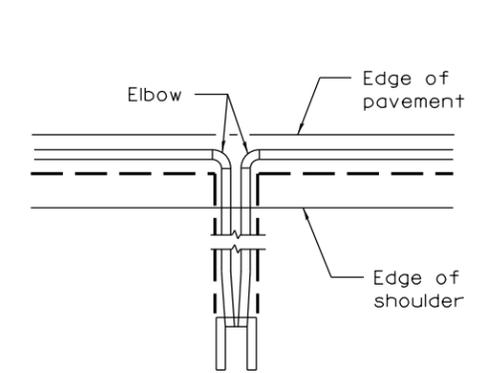
Width min. = O.D. + 4 (100)  
Width max. = 12 (300)



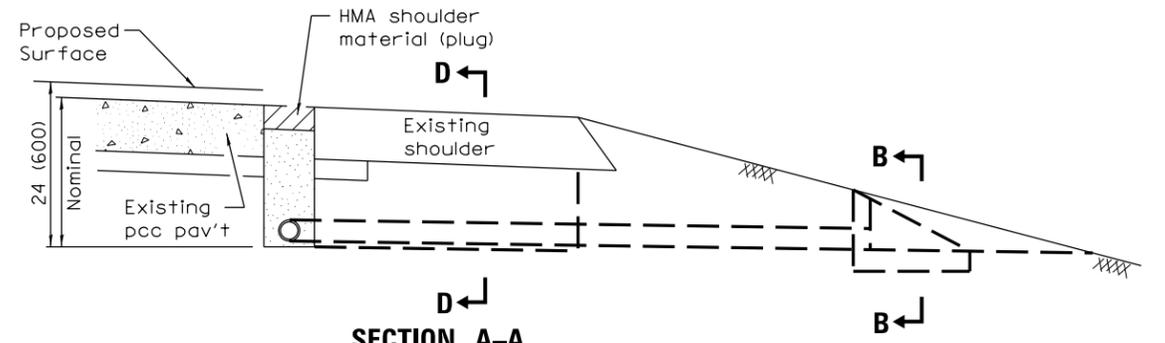
**SECTION A-A  
(PCC SHOULDER)**

Trench shall be placed adjacent to the edge of pav't.  
4 (100) min. pipe underdrain

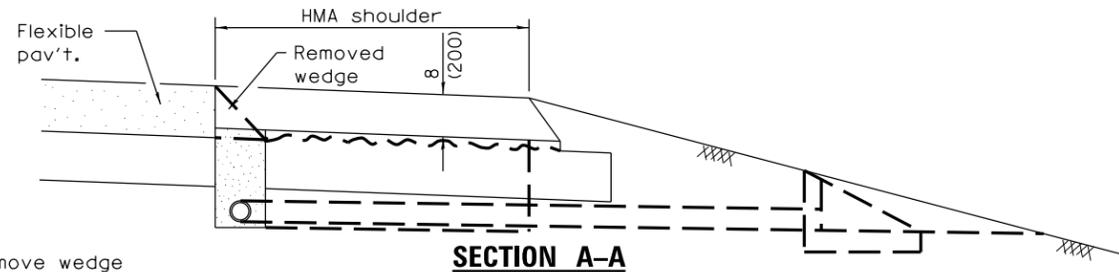
**PLAN**



**DETAIL E**

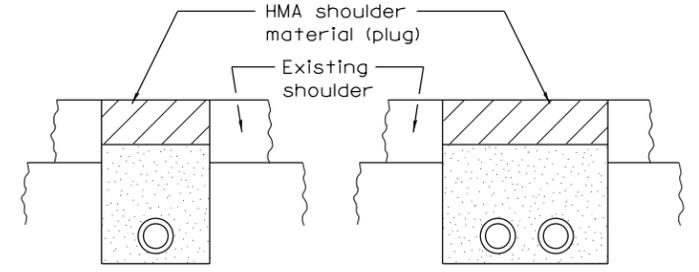
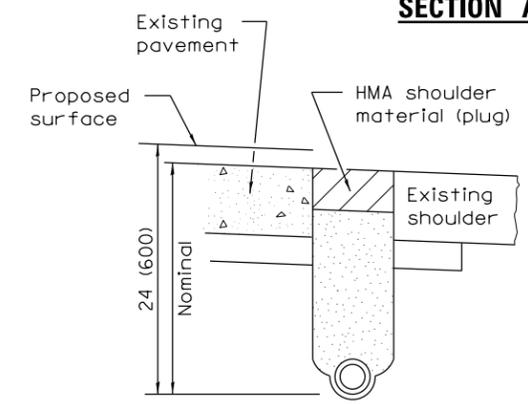


**SECTION A-A**



**SECTION A-A  
(HMA SHOULDER)**

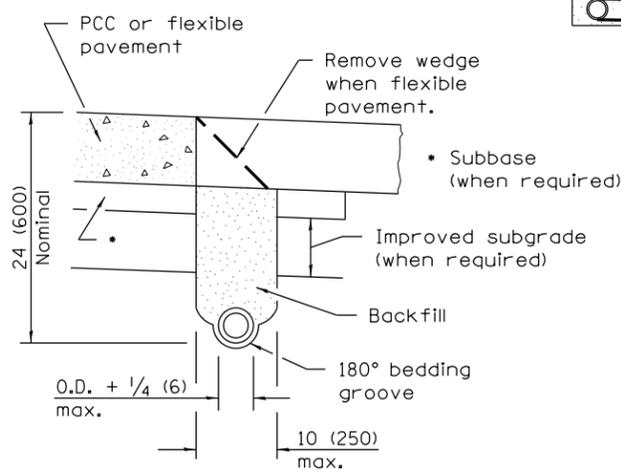
(Dimensions and notes not shown shall be as shown in the above Section A-A)



**SECTION D-D**

**SECTION D-D  
(Sag Locations)**

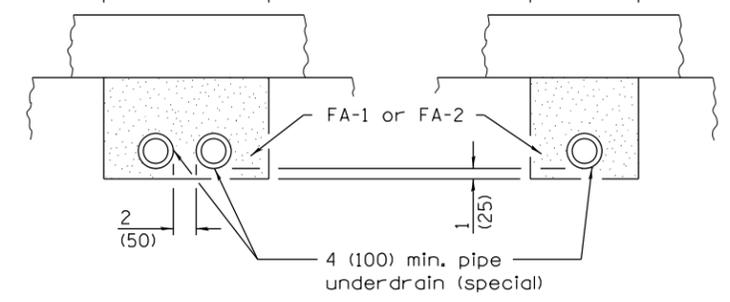
**TRENCH FOR CORRUGATED POLYETHYLENE TUBING ALTERNATE**



**TRENCH FOR CORRUGATED POLYETHYLENE TUBING ALTERNATE**

Width min. = (2xO.D.) + 6 (150)  
Width max. = 18 (450)

Width min. = O.D. + 4 (100)  
Width max. = 12 (300)



**SECTION C-C  
(Sag locations)**

**SECTION C-C**

**NEW CONSTRUCTION**

**EXISTING CONSTRUCTION**

(Except as noted or shown, dimensions and notes specified for Existing Construction are the same as those of New Construction)

Illinois Department of Transportation

PASSED January 1, 2011

Michael Beard  
ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2011

ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

**SUB-SURFACE DRAINS**

(Sheet 2 of 2)

**STANDARD 601001-04**