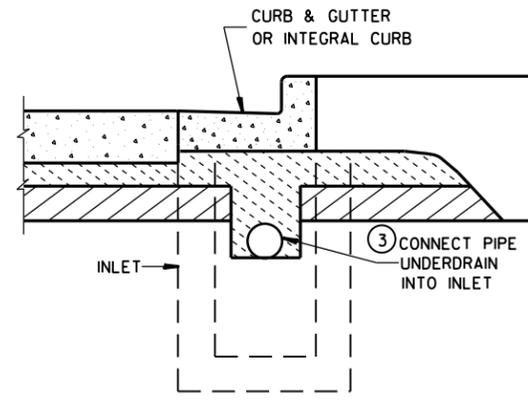


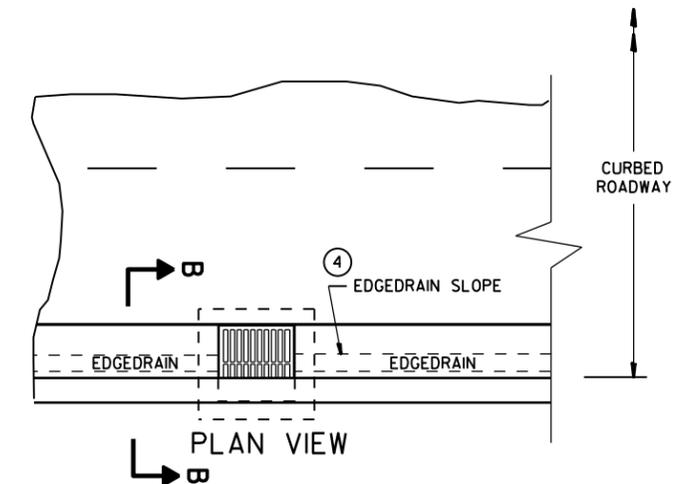
GENERAL NOTES

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.

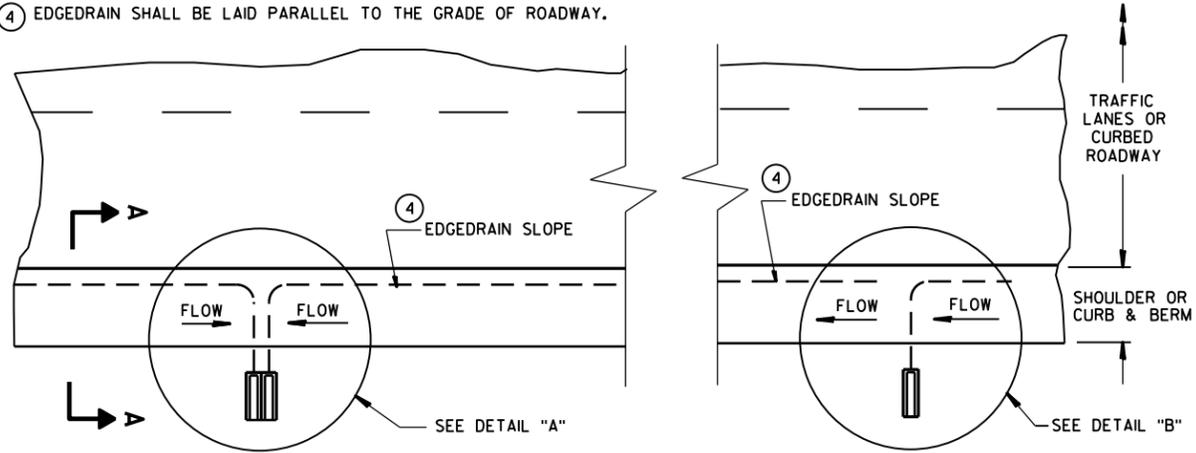
- ① UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:
 POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.
 TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.
- ② MAXIMUM SPACING OF EDGEDRAIN OUTLETS SHALL BE 250 FEET UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.
- ③ EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE AND MAINTENANCE ACCESS.
- ④ EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.



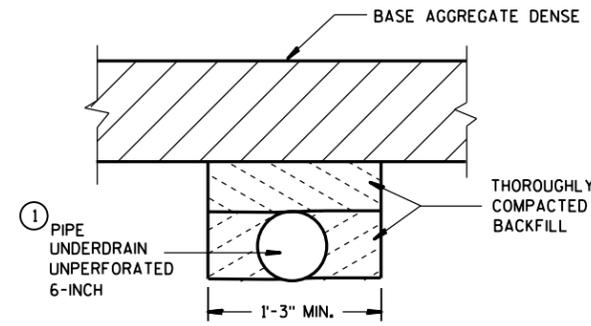
SECTION B-B
URBAN CROSS SECTION



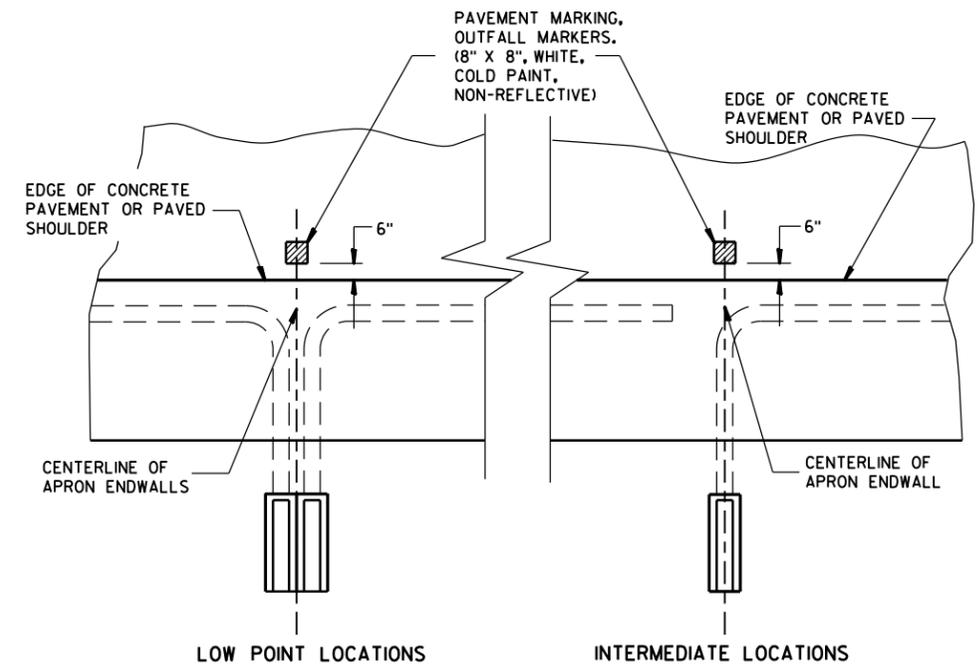
ROADWAY WITH CURBS
(EDGEDRAIN CONNECTS INTO INLET STRUCTURE)



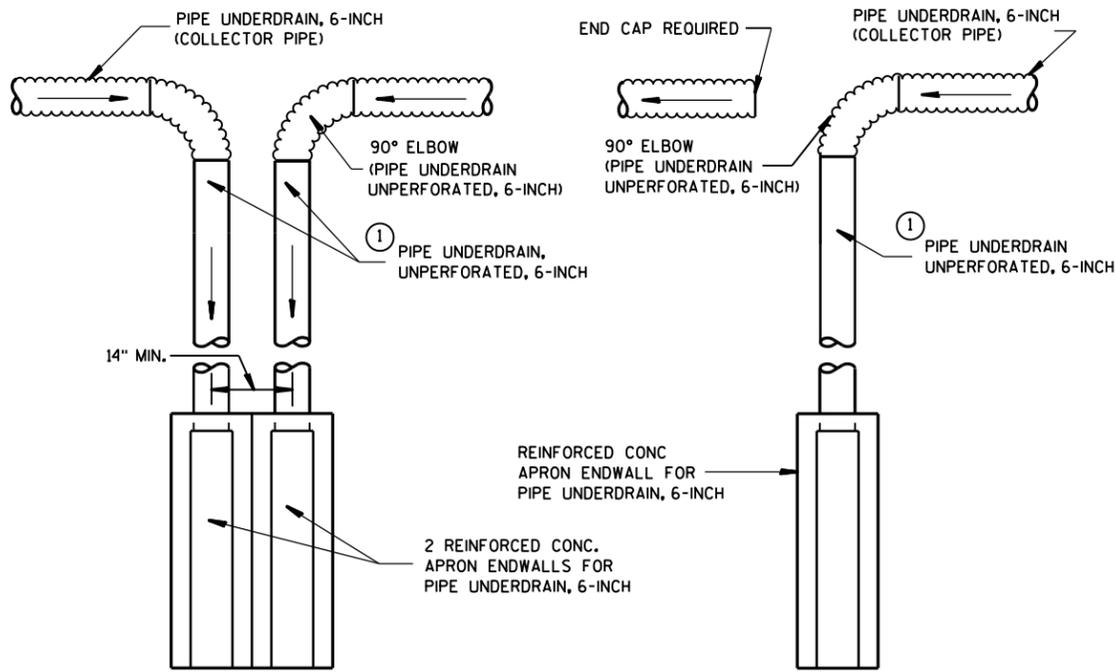
ROADWAY WITH SHOULDERS OR CURBS
(EDGEDRAIN OUTLETS TO ROADSIDE) ②



SECTION C-C
(TRENCH FOR OUTFALL PIPE)

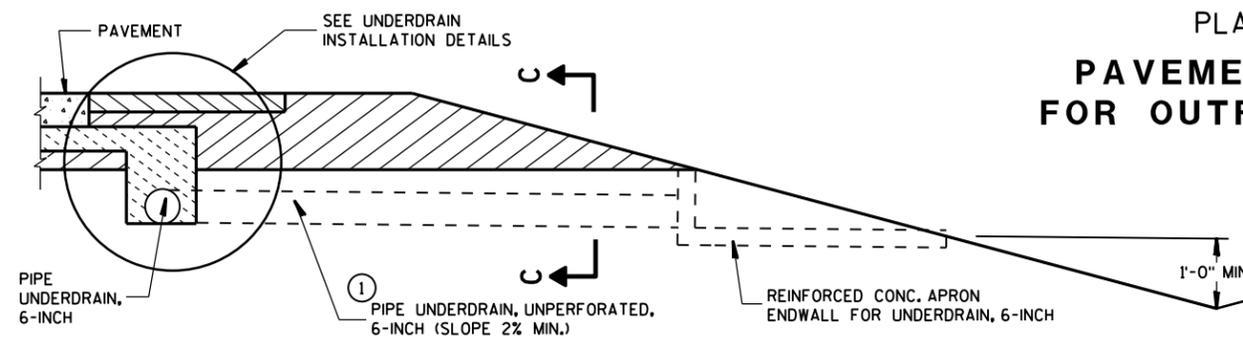


PAVEMENT MARKING
FOR OUTFALL MARKERS



DETAIL "A" TO BE USED AT LOW POINT LOCATIONS
 DETAIL "B" TO BE USED AT INTERMEDIATE LOCATIONS

TYPICAL DRAIN OUT DETAILS



SECTION A-A
RURAL CROSS SECTION

EDGEDRAIN OUTLET AND OUTFALL MARKERS
 STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

S.D.D. 8 D 15-5a

S.D.D. 8 D 15-5a

Edgedrain Outlet and Outfall Markers

References:

[FDM 14-5-5](#)

Bid items associated with this drawing:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
310.0115	Base Aggregate Open Graded	CY
310.0110	Base Aggregate Open Graded	TON
612.0106	Pipe Underdrain 6-Inch	LF
612.0206	Pipe Underdrain Unperforated 6-Inch	LF
612.0806	Apron Endwalls for Underdrain Reinforced Concrete 6-Inch.....	EACH
645.0111	Geotextile Fabric Type DF Schedule A	SY
646.0805.S	Pavement Marking Outfall.....	EACH

Standardized Special Provisions associated with this drawing:

<u>STSP NUMBER</u>	<u>TITLE</u>
646-035	Pavement Marking Outfall

Other SDDs associated with this drawing:

SDD 8F6	Reinforced Concrete Apron Endwall
SDD 8D15	Edgedrains sheet "b"
SDD 8D15	Edgedrains sheet "c"

Design Notes:

Geotextile Fabric Type DF Schedule A must be used unless otherwise justified.

Contact Person:

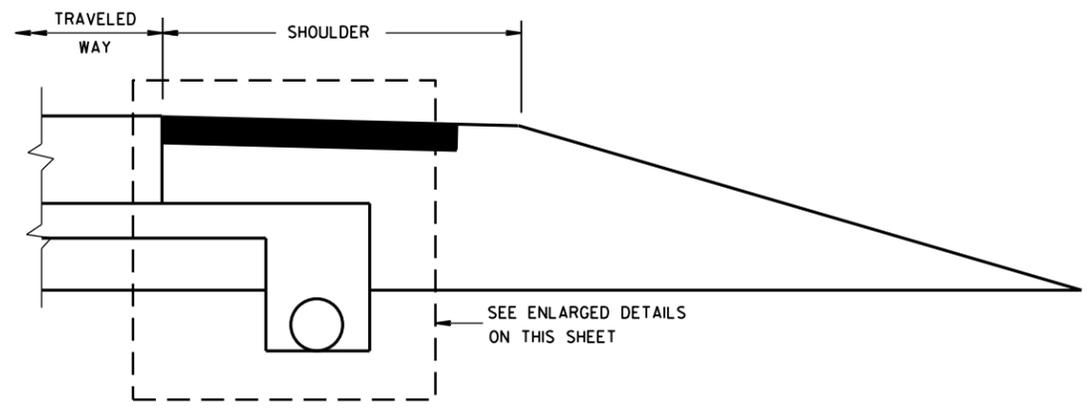
Myungook (MK) Kang (608) 246-7957

GENERAL NOTES

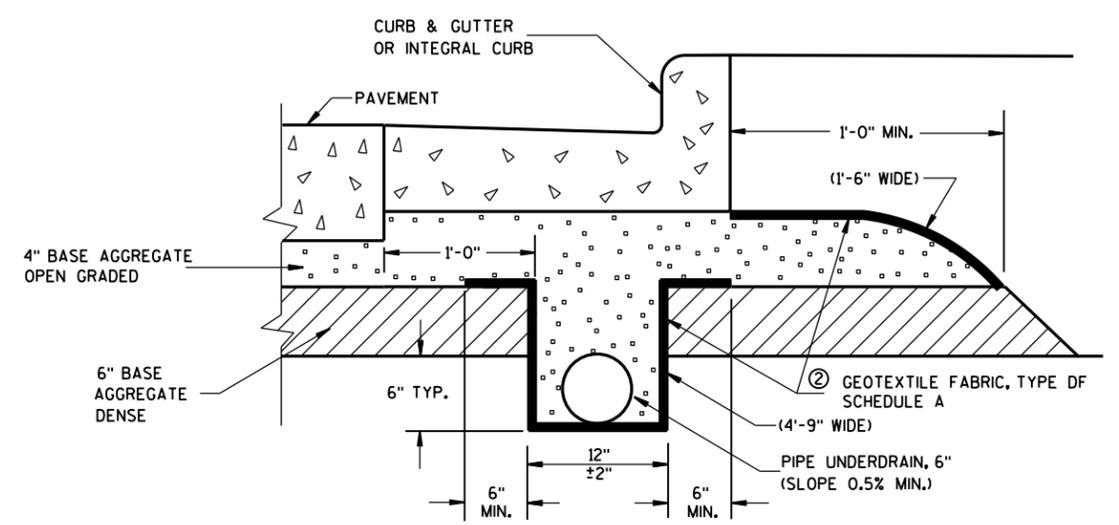
THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING.

PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

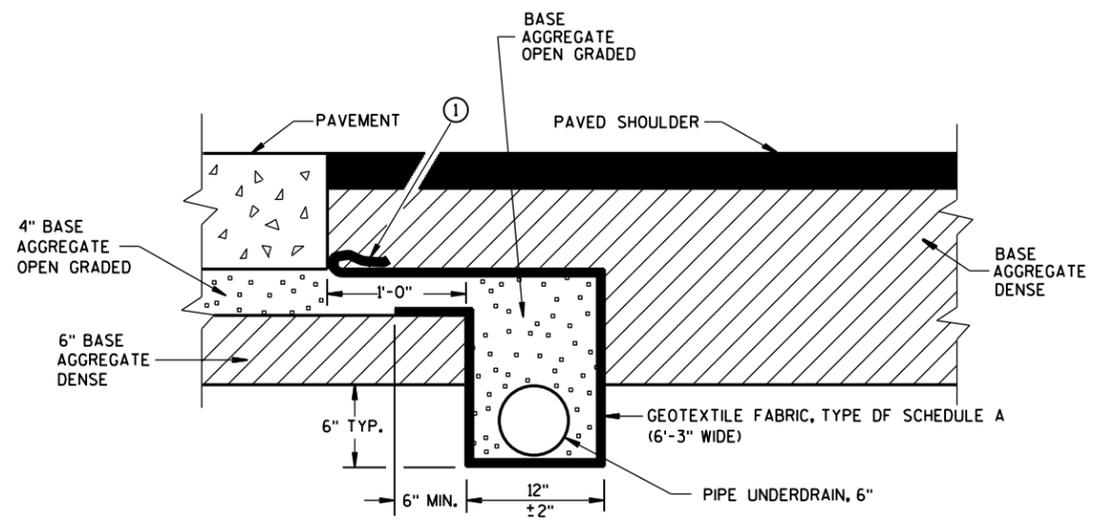
- ① FOLD OVER EXCESS GEOTEXTILE FABRIC AT THIS LOCATION.
- ② TOTAL FABRIC WIDTH IS 6'-3" FOR PAYMENT.



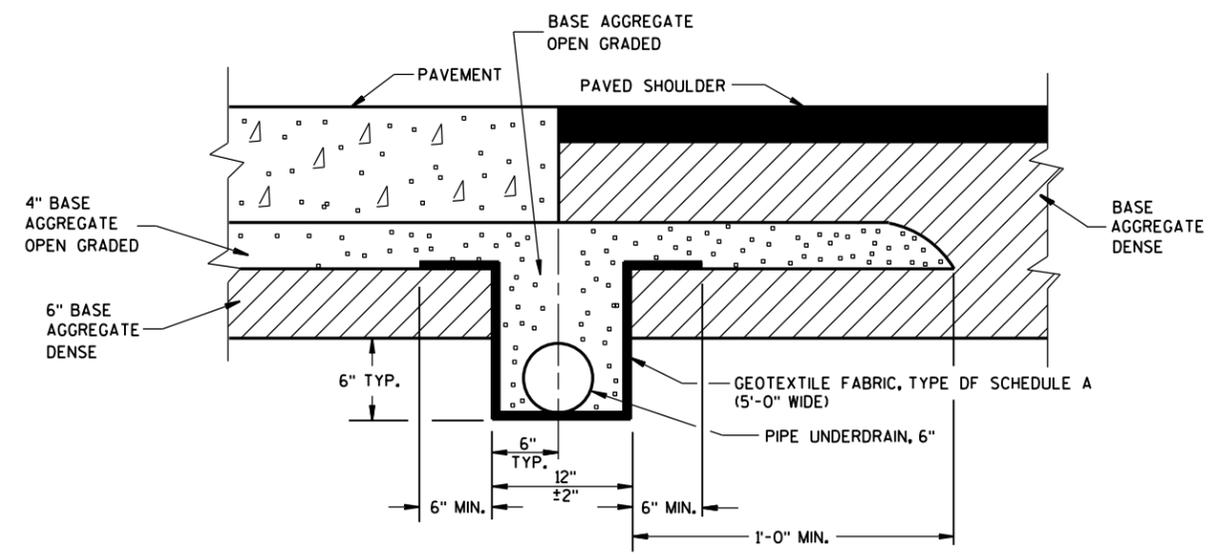
RURAL CROSS SECTION



EDGEDRAIN IN URBAN ROADWAY



POST PAVING INSTALLATION
(QUANTITIES ARE BASED ON THIS DETAIL)



PRE-PAVING INSTALLATION ALTERNATE

EDGEDRAIN IN RURAL ROADWAY

EDGEDRAIN AND BASE AGGREGATE OPEN GRADED	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE	/s/ Peter Kemp, P.E. PAVEMENT SUPERVISOR
Sept. 2015	
FHWA	

6

6

S.D.D. 8 D 15-5b

S.D.D. 8 D 15-5b

Edgedrain and Base Aggregate Open Graded

References:

[FDM 14-5-5](#)

Bid items associated with this drawing:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
310.0115	Base Aggregate Open Graded	CY
310.0110	Base Aggregate Open Graded	TON
612.0106	Pipe Underdrain 6-Inch	LF
612.0206	Pipe Underdrain Unperforated 6-Inch	LF
612.0806	Apron Endwalls for Underdrain Reinforced Concrete 6-Inch.....	EACH
645.0111	Geotextile Fabric Type DF Schedule A	SY

Standardized Special Provisions associated with this drawing:

NONE

Other SDDs associated with this drawing:

SDD 8D15 Edgedrains sheet "a" is required.

Design Notes:

Refer to the [FDM 14-5-5](#) for base aggregate open graded guidelines. For computing geotextile fabric type DF schedule A quantities for the Engineers Estimate use:

6'-3" widths/side for Rural Post Paving Installation.

6'-3" widths/side for Urban Paving Installation.

5'-0" widths/side for Rural Pre-Paving Installation.

Geotextile FabricType DF Schedule A must be used unless otherwise justified.

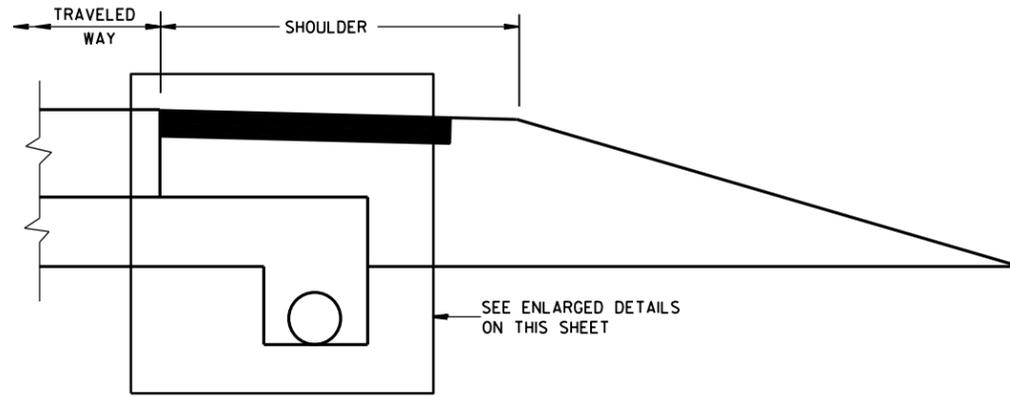
Contact Person:

Myungook Kang (MK) (608) 246-7957

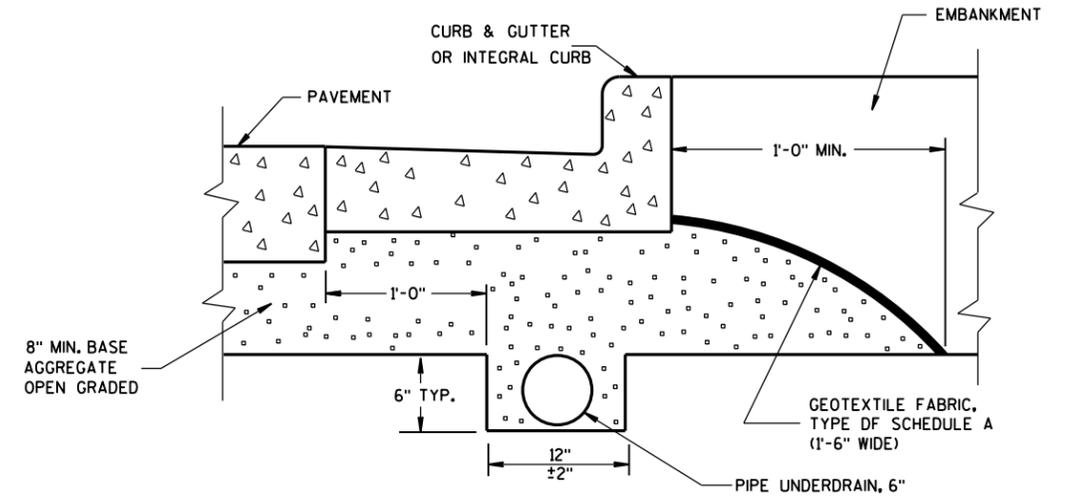
GENERAL NOTES

THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING.

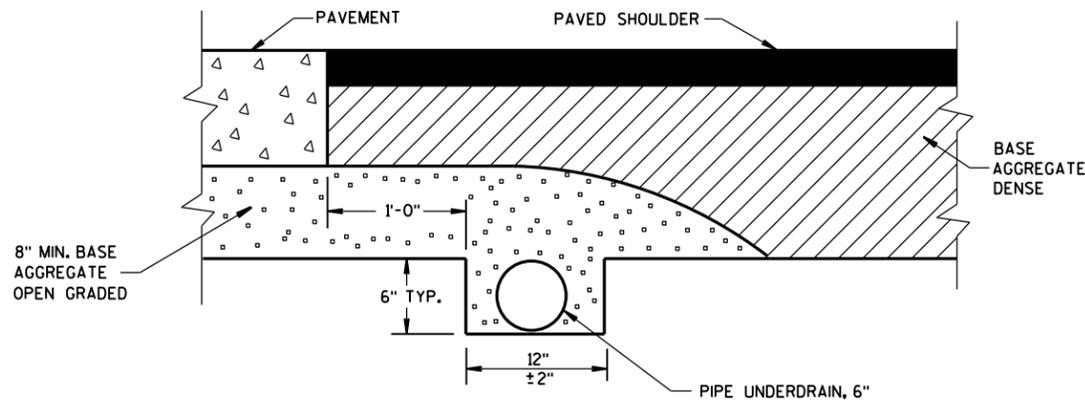
PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.



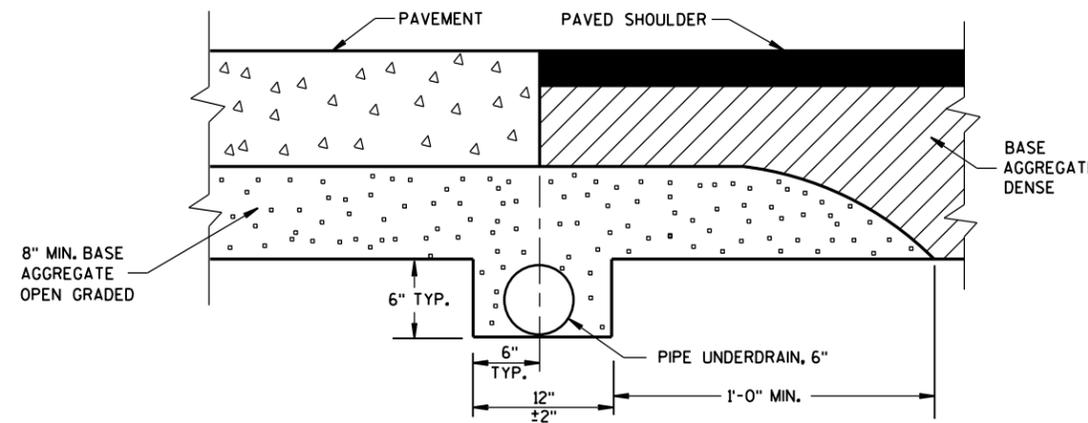
RURAL CROSS SECTION



EDGEDRAIN IN URBAN ROADWAY



POST PAVING INSTALLATION
(QUANTITIES ARE BASED ON THIS DETAIL)



PRE-PAVING INSTALLATION ALTERNATIVE

EDGEDRAIN IN RURAL ROADWAY

EDGEDRAIN AND BASE AGGREGATE OPEN GRADED	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE FHWA	/s/ Peter Kemp, P.E. PAVEMENT SUPERVISOR

6

6

S.D.D. 8 D 15-5c

S.D.D. 8 D 15-5c

Edgedrain and Base Aggregate Open Graded

References:

[FDM 14-5-5](#)

Bid items associated with this drawing:

<u>ITEM NUMBER</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
310.0115	Base Aggregate Open Graded	CY
310.0110	Base Aggregate Open Graded	TON
612.0106	Pipe Underdrain 6-Inch	LF
612.0206	Pipe Underdrain Unperforated 6-Inch	LF
612.0806	Apron Endwalls for Underdrain 6-Inch Reinforced Concrete.....	EACH
645.0111	Geotextile Fabric Type DF Schedule A	SY

Standardized Special Provisions associated with this drawing:

NONE

Other SDDs associated with this drawing:

SDD 8d15 Edgedrains sheet "a" is required.

Design Notes:

Refer to the [FDM 14-5-5](#) for base aggregate open graded guidelines. This drawing applies when base aggregate open graded is placed directly on the granular subgrade.

For computing geotextile fabric type DF Schedule A quantities for the Engineers Estimate use:

1'-6" widths/side for Urban Paving Installation

Geotextile FabricType DF Schedule A must be used unless otherwise justified.

Contact Person:

Myungook Kang (MK) (608) 246-7957