

Illinois Tollway Base Sheet Revisions

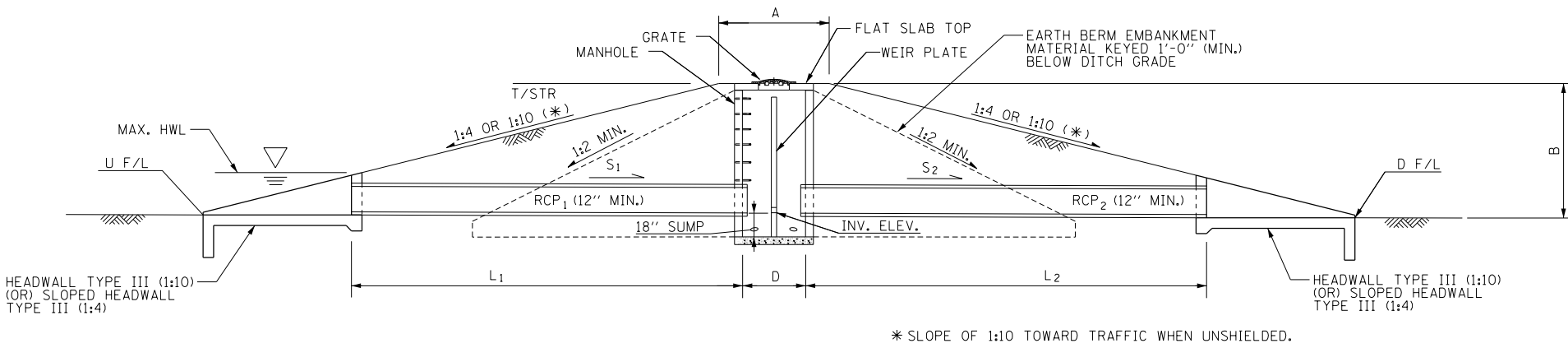
Section M	Base Sheet Drawings	
	Drawing	Modification Summary Effective: 03-01-2018
	Drainage (DRN)-Series 600	
	M-DRN-603	Articulated Concrete Block Revetment System



New Sheet

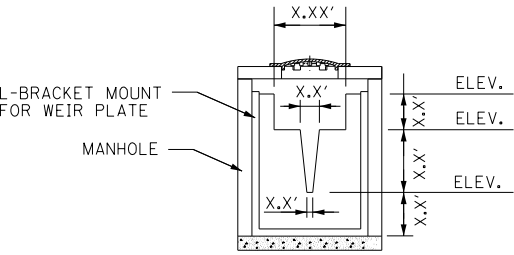


Retired Standard

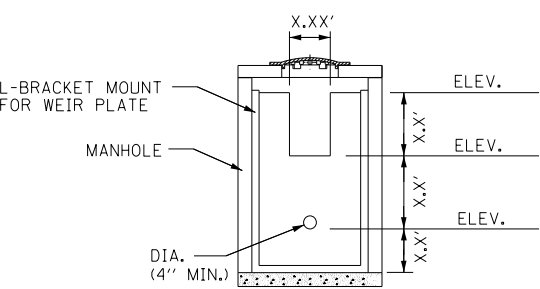


PROFILE VIEW

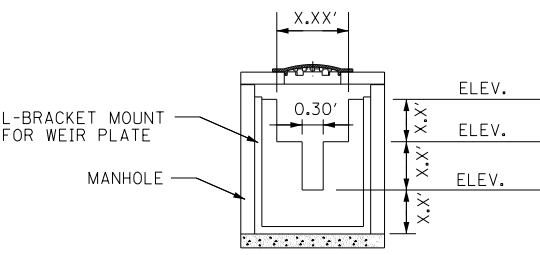
DESIGN ELEMENTS		VALUES
DRAINAGE AREA	X (ACRES)	
STORAGE VOLUME	V (CU. YD.)	
CHECK DAM TOP WIDTH	A (FEET)	
CHECK DAM HEIGHT	B (FEET)	
MANHOLE	D (DIAMETER)	
MANHOLE-GRATE	TYPE	
HORIZONTAL PIPE (RCP <sub>1</sub> )	P <sub>1</sub> (DIAMETER)	
HORIZONTAL PIPE (RCP <sub>1</sub> )	L <sub>1</sub> (FEET)	
HORIZONTAL PIPE (RCP <sub>1</sub> )	S <sub>1</sub> (SLOPE)	
HORIZONTAL PIPE (RCP <sub>2</sub> )	P <sub>2</sub> (DIAMETER)	
HORIZONTAL PIPE (RCP <sub>2</sub> )	L <sub>2</sub> (FEET)	
HORIZONTAL PIPE (RCP <sub>2</sub> )	S <sub>2</sub> (SLOPE) (%)	
WEIR PLATE-DETAIL	SHAPE	
WEIR PLATE-RELEASE RATE	CFS	
HEADWALL TYPE III (1:10)	PIPE DIAMETER	
SLOPED HEADWALL TYPE III (1:4)	PIPE DIAMETER	
HIGH WATER ELEVATION	HWL (FEET)	
TOP OF STRUCTURE ELEVATION	T/STR (FEET)	
UPSTREAM FLOWLINE	U F/L (FEET)	
DOWNSTREAM FLOWLINE	D F/L (FEET)	



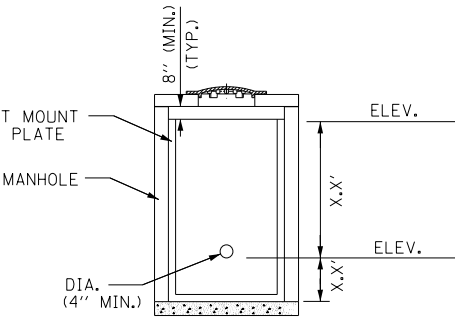
WEIR PLATE DETAIL



WEIR PLATE DETAIL



WEIR PLATE DETAIL



WEIR PLATE DETAIL

SAMPLE  
WEIR PLATE DETAILS

NOTE:  
ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT  
TO UNITS OF HORIZONTAL DISPLACEMENT, (V:H).

OUTLET CONTROL STRUCTURE  
(CHECK DAM)

NOTE TO DESIGNER

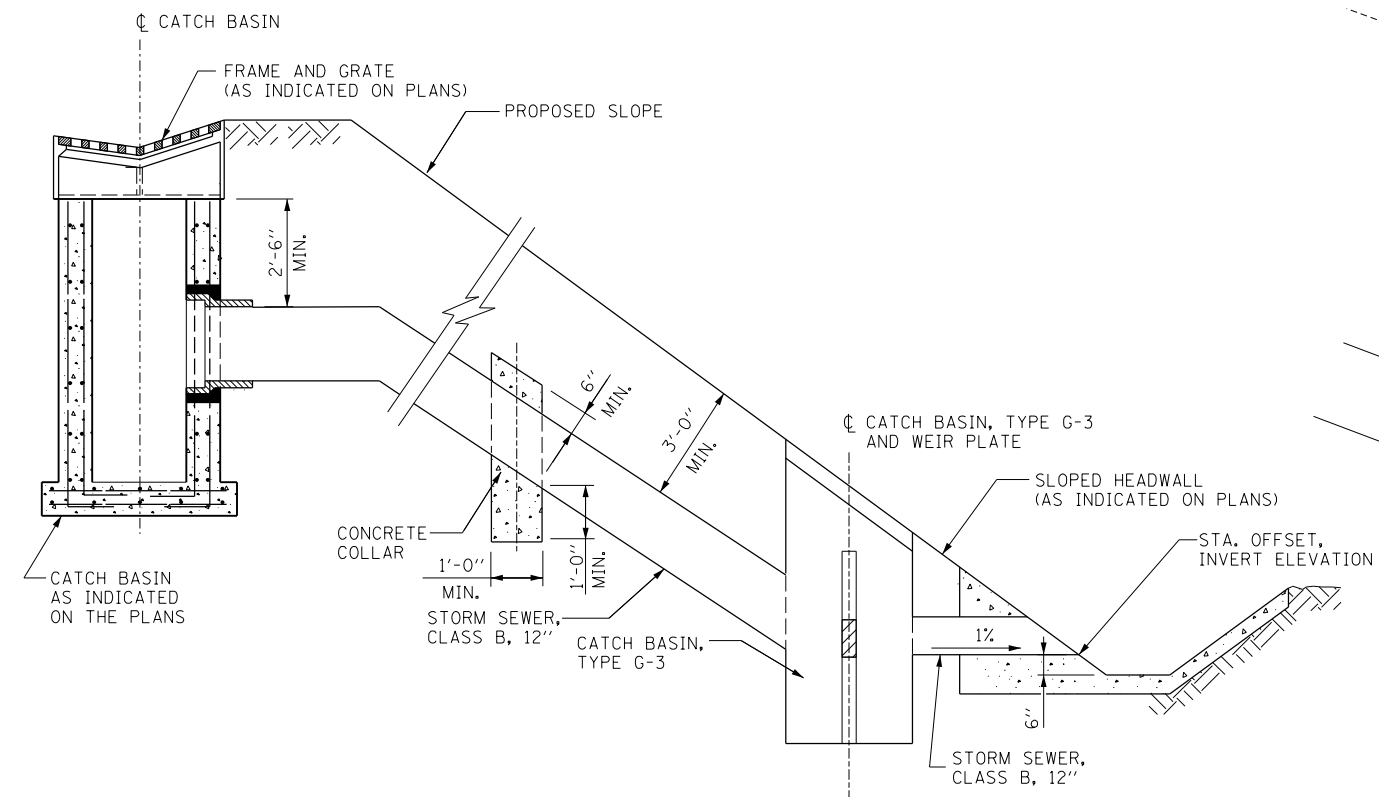
THIS BASE SHEET SHOWS TYPICAL NEW CONSTRUCTION BUT IT IS NOT A STANDARD  
DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A  
CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE  
AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE . THE DESIGNER SHALL ACCEPT THE  
RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND  
INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED  
PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

M-DRN-600



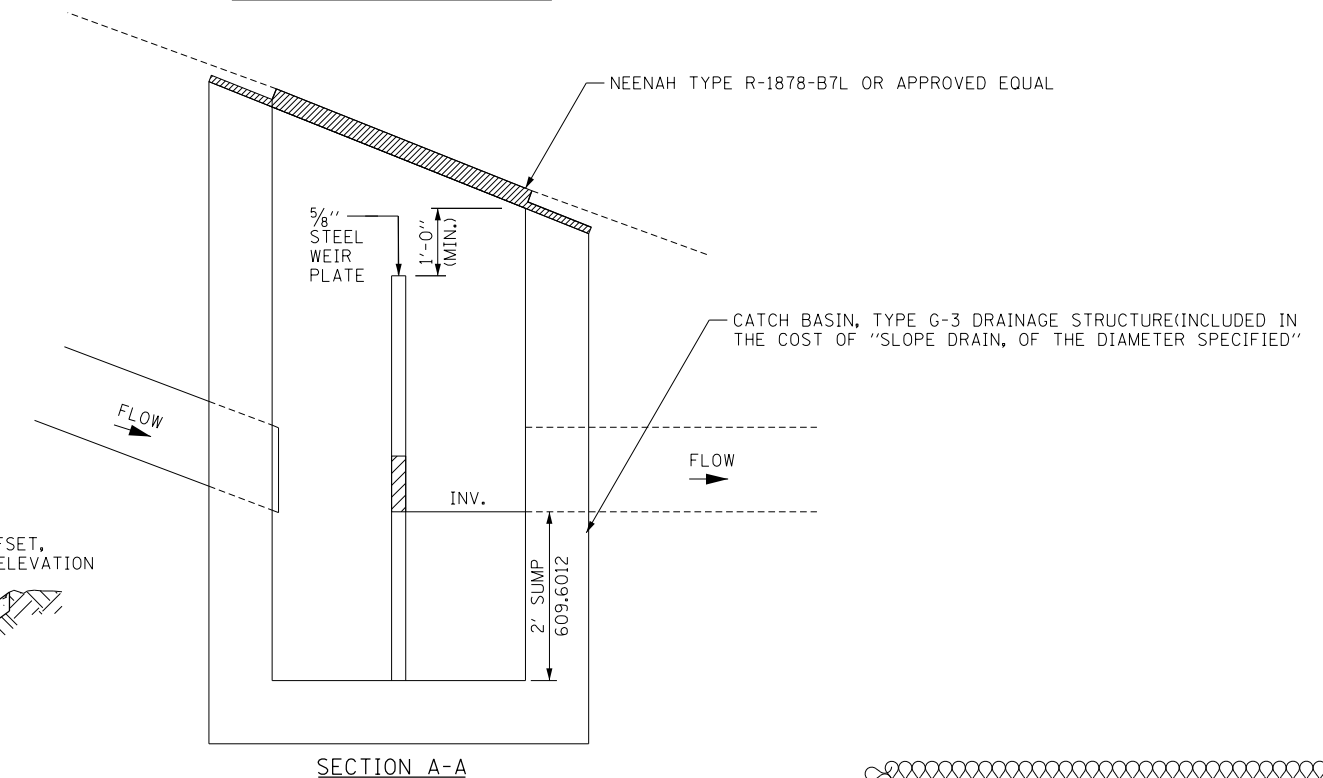
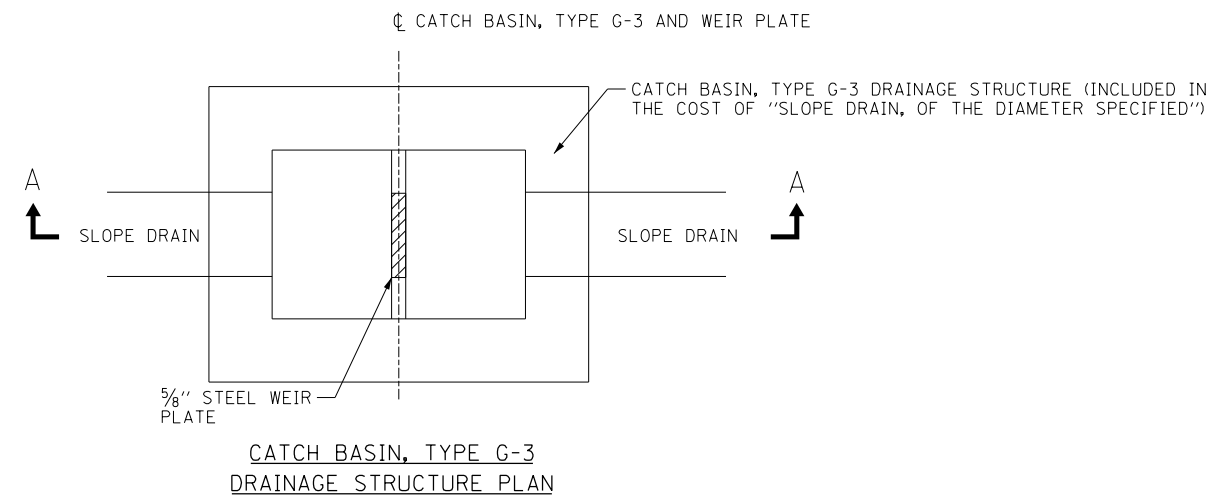
OUTLET CONTROL STRUCTURE  
CHECK DAM DETAILS

DATE  
11-1-2012

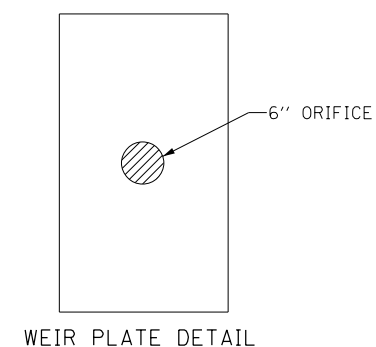


SLOPE DRAIN

DRAIN NO.	CONC. COLLAR		CATCH BASIN, TYPE G-3		INV.	TOP OF WEIR PLATE ELEVATION
	STATION	OFFSET	STATION	OFFSET		



SECTION A-A



NOTES:

1. THE STORM SEWER, CONCRETE COLLAR CATCH BASIN, TYPE G-3, WEIR PLATE AND FRAME, AND GRATE, SHALL BE INCLUDED IN THE COST OF SLOPE DRAIN OF THE DIAMETER SPECIFIED.
2. SEE ILLINOIS TOLLWAY STANDARD B8 FOR DIMENSION OF CATCH BASIN, TYPE G-3 STRUCTURE.
3. THE TOP OF THE CATCH BASIN, TYPE G-3 SHALL BE CUT IN THE FIELD TO MATCH THE PROPOSED EMBANKMENT SLOPE.
4. THE CONTRACTOR HAS THE OPTION TO USE A CONCRETE RESTRICTOR PLATE THAT IS PRECAST WITHIN THE DRAINAGE STRUCTURE.

NOTE TO DESIGNER

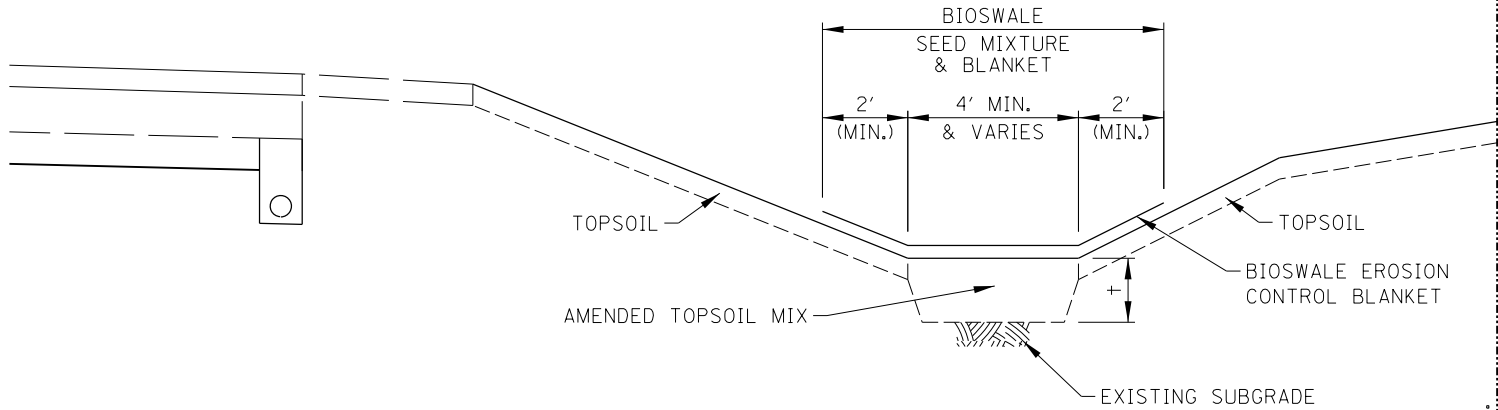
THIS BASE SHEET SHOWS TYPICAL NEW CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING. IT REQUIRES COMPLETION BY THE DESIGNER PRIOR TO INSERTION INTO A CONTRACT. MICROSTATION FILES AND THE "CADD STANDARDS MANUAL" ARE AVAILABLE ON THE ILLINOIS TOLLWAY WEBSITE. THE DESIGNER SHALL ACCEPT THE RESPONSIBILITY OF THE DESIGN OF THIS SHEET UPON ITS COMPLETION AND INSERTION INTO A CONTRACT. ALL "NOTE TO DESIGNER" BOXES SHALL BE REMOVED PRIOR TO INSERTION OF THE SHEET INTO THE PLAN SET.

M-DRN-601



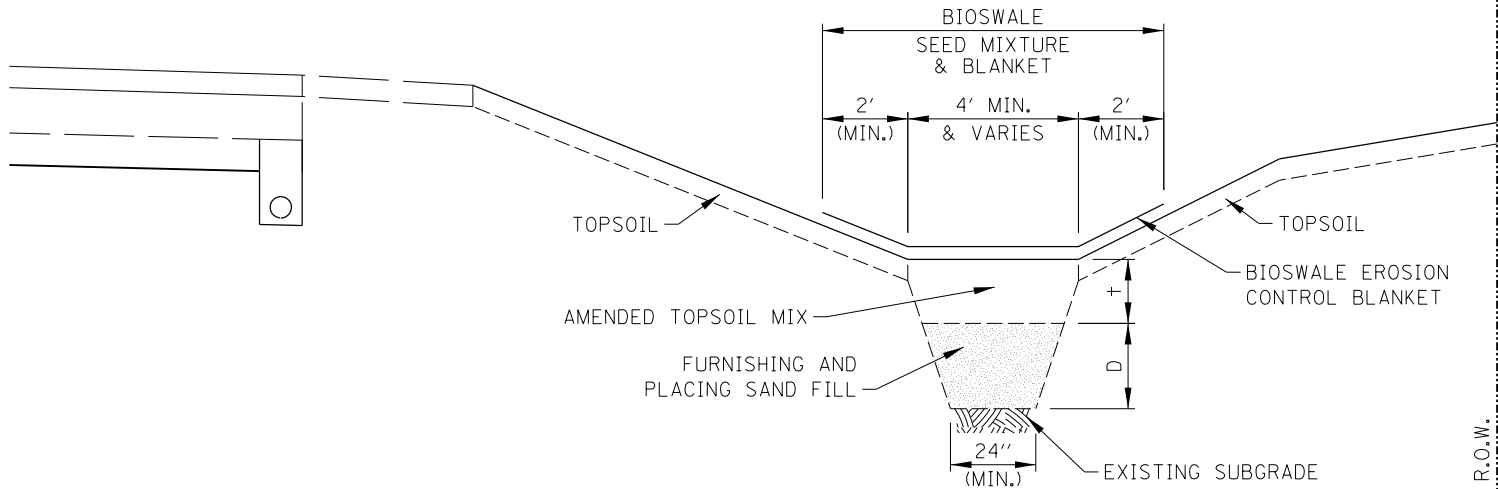
SLOPE DRAIN

DATE  
3-31-2016



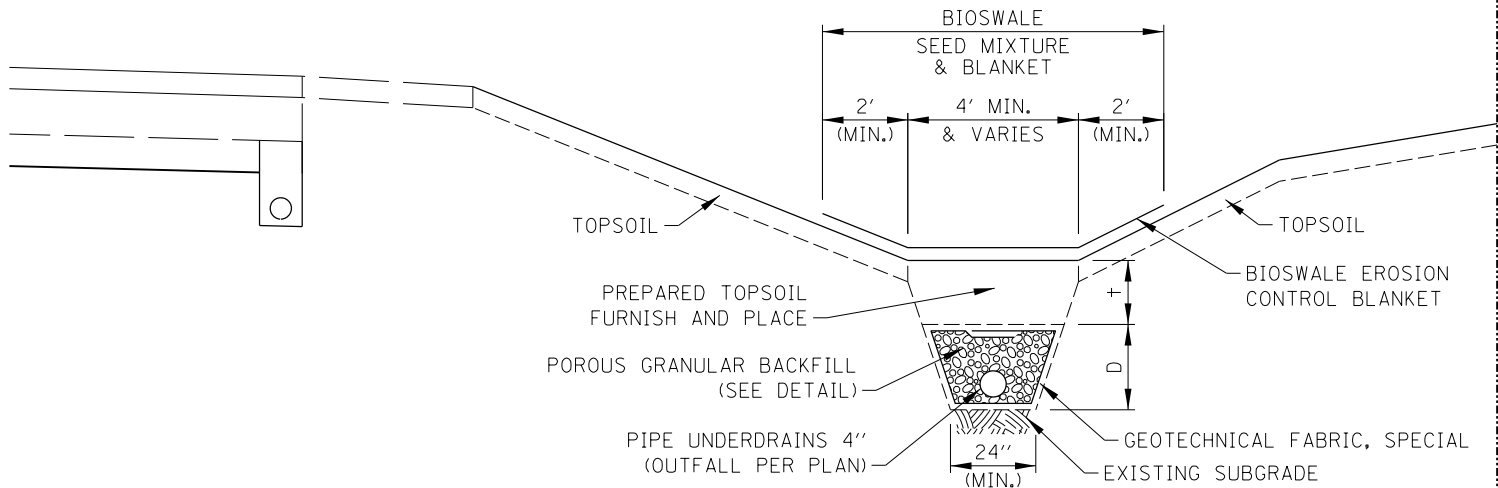
BIOSWALE, TYPE 1

R.O.W.



BIOSWALE, TYPE 2

R.O.W.



BIOSWALE, TYPE 3

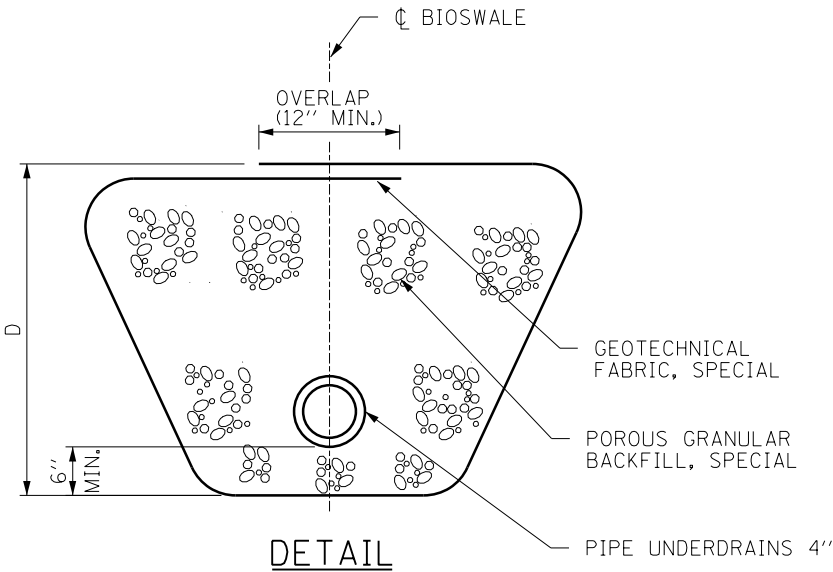
BIOSWALE NO.	BIOSWALE TYPE	BEGIN STATION	END STATION	PREP/AMENDED TOPSOIL THICKNESS (+)	BIOSWALE BASE (D)

NOTE TO DESIGNER

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NOTES TO DESIGNER

1. ALL UNDER DRAINS SHALL EITHER OUTLET AT GRADE OR TO A DRAINAGE STRUCTURE AND GRAVITY DRAIN.
2. ALL UNDER DRAINS SHALL HAVE AN INLET ON THE UPSTREAM END AND EVERY 500' MINIMUM TO SERVE AS A CLEAN OUT.



- NOTES:
1. THE ENDS OF THE PIPE UNDERDRAIN OUTLET AT GRADE SHALL BE PROTECTED BY A PERMANENT RODENT SHIELD IN ACCORDANCE WITH STANDARD B24.

M-DRN-602

BIOSWALE

DATE  
3-31-2016

[illegible]

1. THE AREA OF MEASUREMENT WILL INCLUDE THE COMPLETE INSTALLED MATS, INCLUDING BOTH THE VISIBLE AREA AND THE BURIED EDGE PORTIONS OF THE INSTALLATION WHICH ARE NOT VISIBLE UPON PROJECT COMPLETION (EDGE TERMINATION).
2. EACH BLOCK SHALL INCORPORATE INTERLOCKING SURFACES THAT MINIMIZE LATERAL DISPLACEMENT OF THE BLOCKS WITHIN THE MATS WHEN THEY ARE LIFTED BY THE LONGITUDINAL REVETMENT CABLES. HAND PLACED INTERLOCKING BLOCKS ARE ALSO ACCEPTABLE.
3. THE NONWOVEN FILTER FABRIC SHALL BE INCLUDED IN THE COST OF THE ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM OF THE TYPE SPECIFIED.
4. THE TOP OF BLOCK ELEVATION SHALL BE AT OR BELOW THE DITCH FLOW LINE.