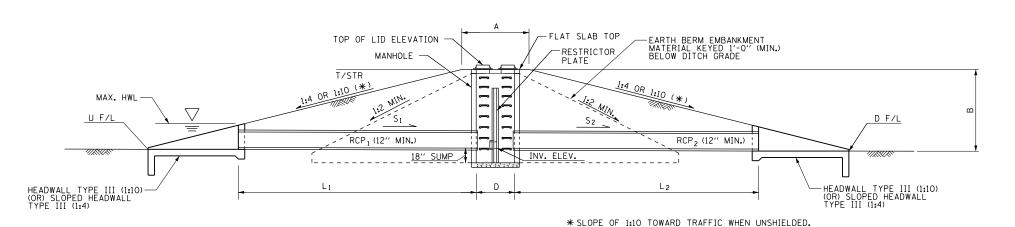
# Illinois Tollway Base Sheet Revisions

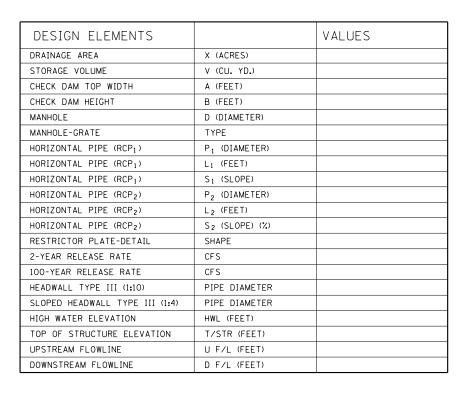
Drawing	Modification Summary	Effective: 03-01-2020				
	Drainage (DRN)-Series 600					
M-DRN-600	Outlet Control Structure Check Dam Details					
	Added steps so they are shown on both sides of the restrictor plat	te in the Profile View.				
	Changed the weir notch width from 0.30' to X.XX' in the Restrictor	r Plate Detail.				
M-DRN-601	Slope Drain					
	Added a top slope water tight transition fitting.					
	Minor edits.					

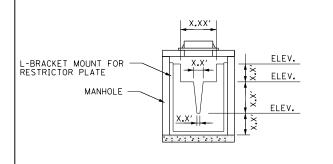
New Sheet



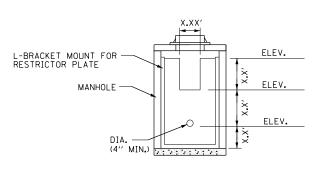


## PROFILE VIEW

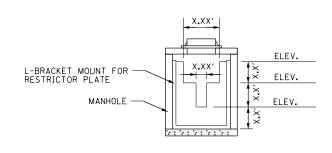




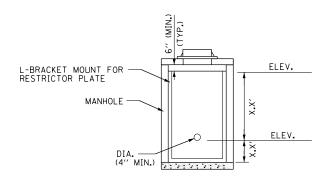
RESTRICTOR PLATE DETAIL



RESTRICTOR PLATE DETAIL



RESTRICTOR PLATE DETAIL



RESTRICTOR PLATE DETAIL

# SAMPLE RESTRICTOR PLATE DETAILS

NOTE TO DESIGNER

1. DSE SHALL DESIGN STEEL ANGLE BOLTS AND FASTENERS FOR THE STEEL RESTRICTOR PLATES. DETAILS ARE TO BE PROVIDED ON THIS SHEET.

OUTLET CONTROL STRUCTURE (CHECK DAM)

### NOTE:

- ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT. (V:H).
- 2. 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-600



OUTLET CONTROL STRUCTURE CHECK DAM DETAILS

DATE

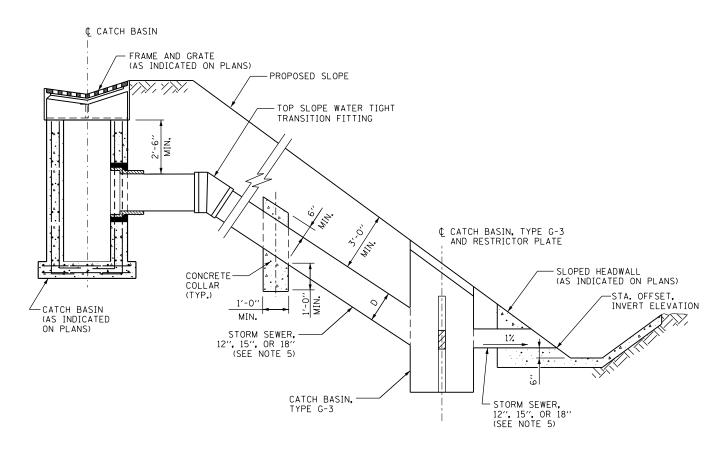
3-1-2020

THIS BASE SHEET SHOWS TYPICAL NEW CONSTRUCTION BUT IT IS NOT A STANDARD DRAWING, IT REDUIRES 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 PESPONSIBILITY OF THE PESIGN OF THIS 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.
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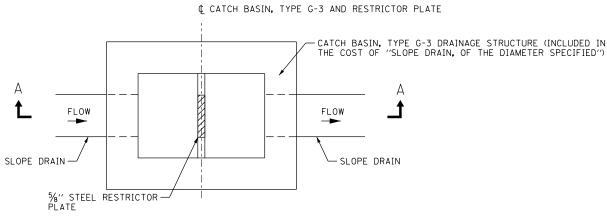
NOTE TO DESIGNER

DSE SHALL DESIGN STEEL ANGLE BOLTS AND FASTENERS
FOR THE STEEL RESTRICTOR PLATES. DETAILS ARE TO
BE PROVIDED ON THIS SHEET.

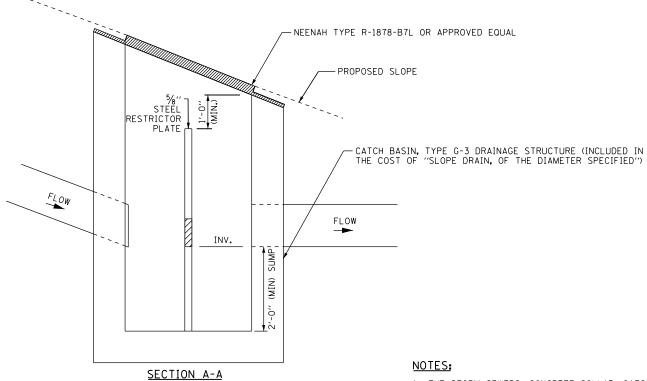


# SLOPE DRAIN

DRAIN D (IN)	CONC. COLLAR		CATCH BASIN, TYPE G-3		INV.	TOP OF RESTRICTOR
	STATION	OFFSET	STATION	OFFSET		PLATE ELEVATION
	D (IN)	D (IN)	D (IN)	D (IN)	D (IN) TYPE G-3	D (IN) TYPE G-3 INV.



### CATCH BASIN, TYPE G-3 DRAINAGE STRUCTURE PLAN



—6" ORIFICE

RESTRICTOR PLATE DETAIL

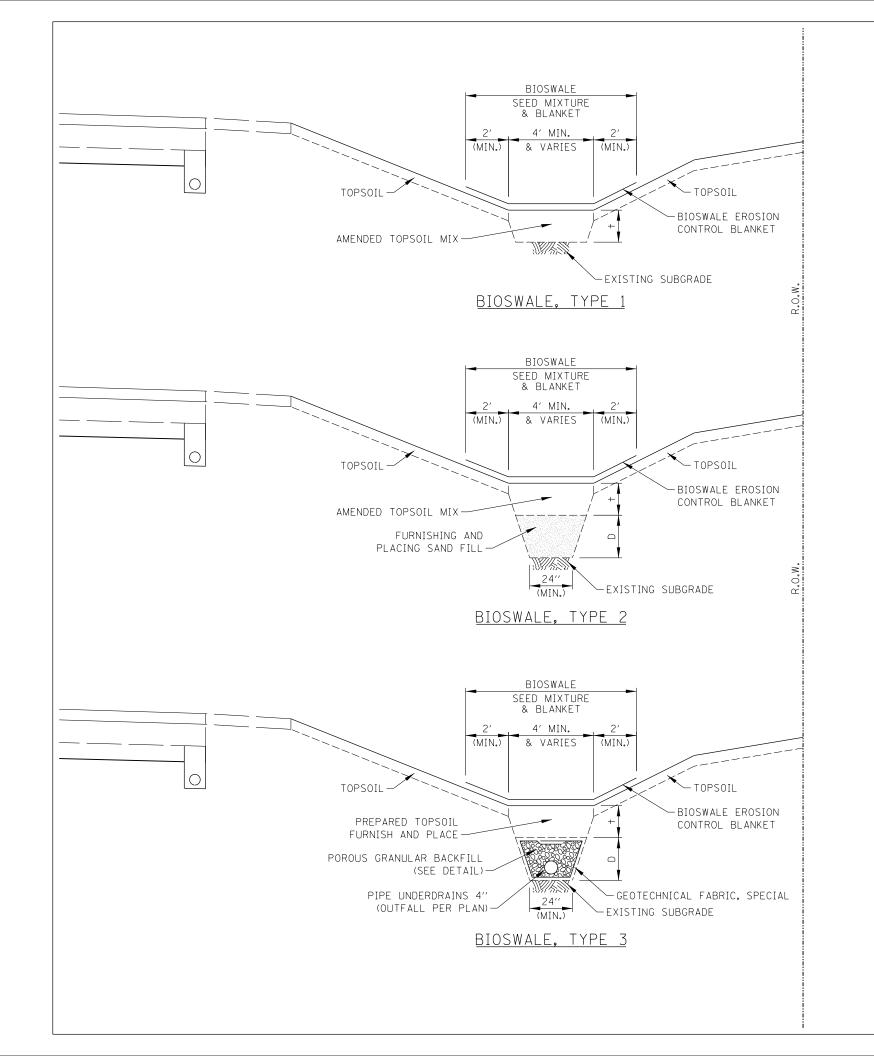
- THE STORM SEWERS, CONCRETE COLLAR, CATCH BASIN, TYPE G-3, RESTRICTOR PLATE AND FRAME AND GRATE, SHALL BE INCLUDED IN THE COST OF SLOPE DRAIN OF THE DIAMETER SPECIFIED.
- 2. SEE ILLINOIS TOLLWAY STANDARD B8 FOR DIMENSION OF CATCH BASIN, TYPE G-3 STRUCTURE.
- 3. THE TOP OF THE CATCH BASIN, TYPE G-3 SHALL 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.
- 5. PIPE MATERIAL SHALL BE HDPE WITH SMOOTH INTERIOR OR EPOXY COATED CORRUGATED GALVANIZED STEEL PIPE OF THE SIZE

M-DRN-601



SLOPE DRAIN

DATE 3-1-2020



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

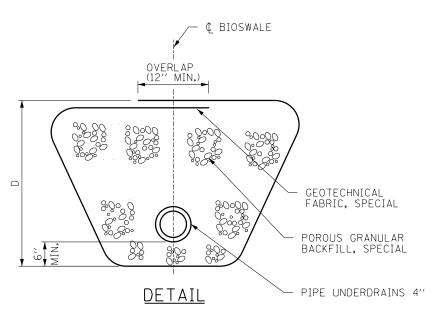
NOTE TO DESIGNER

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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' MINIMUMTO SERVE AS A CLEAN OUT.



M-DRN-602

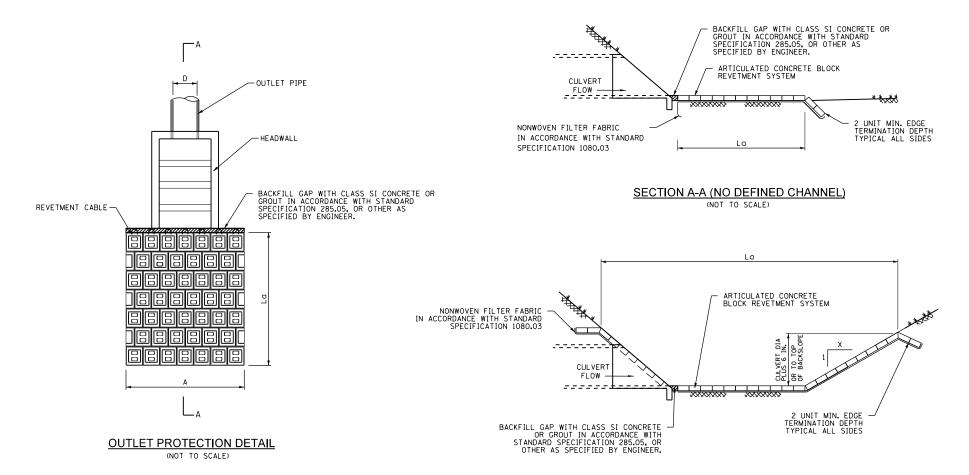
### NOTES:

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



BIOSWALE

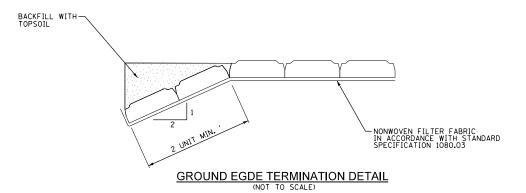
DATE 3-31-2016



### SECTION A-A (DEFINED CHANNEL) (NOT TO SCALE)

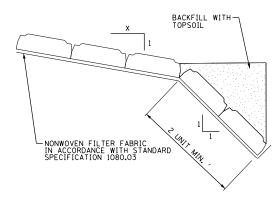
BACKFILL WITH-TOPSOIL -NONWOVEN FILTER FABRIC IN ACCORDANCE WITH STANDARD SPECIFICATION 1080.03

# TOP OF SLOPE EDGE TERMINATION DETAIL



### ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM (ACBRS) SCHEDULE

STRUCTURE NO.	D (IN)	La (FT)	A (FT)	PAY LENGTH (FT) (SEE NOTE 3)	PAY WIDTH (FT) (SEE NOTE 3)	BLOCK TYPE	MAT CONFIGURATION	ACBRS (SQ YD)



# TOE OF SLOPE EDGE TERMINATION DETAIL

NOTES TO DESIGNER

1. THE AREA OF MEASUREMENT WILL INCLUDE THE COMPLETE INSTALLED WATS, INCLUDING BOTH THE VISIBLE AREA AND THE BURIEL BODE PORTIONS OF THE INSTALLATION WHICH ARE NOT VISIBLE UPON PROJECT COMPLETION (EDGE TERMINATION).

2. THE NONWOVEN FILTER FABRIC SHALL BE INCLUDED IN THE COST OF THE ARTICULAR PROJECT SYSTEM OF THE ARTICULAR PROJECT SPECIFICS.

NOTE TO DESIGNER

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M-DRN-603



ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM

DATE 3-01-2019

# NOTES:

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.

**TYPICAL MAT TO MAT** (NOT TO SCALE)

REVETMENT CABLE

-BACKFILL GAP WITH CLASS SI CONCRETE OR GROUT IN ACCORDANCE WITH STANDARD SPECIFICATION 285.05, OR OTHER AS SPECIFIED BY ENGINEER.

- NONWOVEN FILTER FABRIC IN ACCORDANCE WITH STANDARD SPECIFICATION 1080.03

- THE TOP OF BLOCK ELEVATION SHALL BE AT OR BELOW THE DITCH FLOW LINE, OR FINISHED SURFACE.
- PAY LENGTH IS EQUAL TO DIMENSION "Lg" PLUS THE TOTAL ESTIMATED LENGTH OF THE BURIED PORTION OF THE BLOCKS. PAY WIDTH IS EQUAL TO DIMENSION "A" PLUS THE TOTAL ESTIMATED WIDTH OF THE BURIED PORTION OF THE BLOCKS.