

New Jersey Turnpike Authority

P.O. Box 5042, Woodbridge, NJ 07095



February 10, 2023

Document Change Announcement

Standard Drawings

Lip Curb Inlet

DCA2023SD-01

Subject: Revisions to

Drawing DR-5 Concrete Gutter And Slope Drain Details

Drawing CU-4 Lip Curb And Inlet Treatment At Bridge Structures

Description of Change:

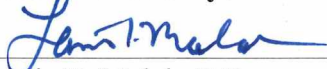
Standard Drawings CU-4 (Lip Curb Inlet Treatment at Bridge Structures) and DR-5 (Concrete Gutter and Slope Drain Details) are updated to replace lip curb inlets with Type D1 drop inlets at slope drains for new construction or complete replacement. New installations or complete replacement of lip curb inlets on Authority roadways have been eliminated. Lip curb inlets details remain in the Standard Drawings as reference for repair of existing installations only.


Notice to New Jersey Turnpike Authority Staff and Design Consultants

Effective immediately, all contracts currently in the design phase shall incorporate the revisions herein. For advertised contracts awaiting the opening of bids this revision shall be incorporated via addendum. Contact your New Jersey Turnpike Authority Project Manager for instruction.

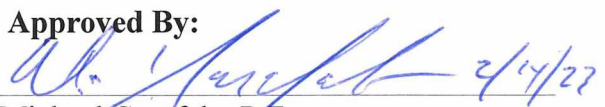
The revisions may be accessed on the Authority's webpage: <https://www.njta.com/doing-business/professional-services>

Recommended By:

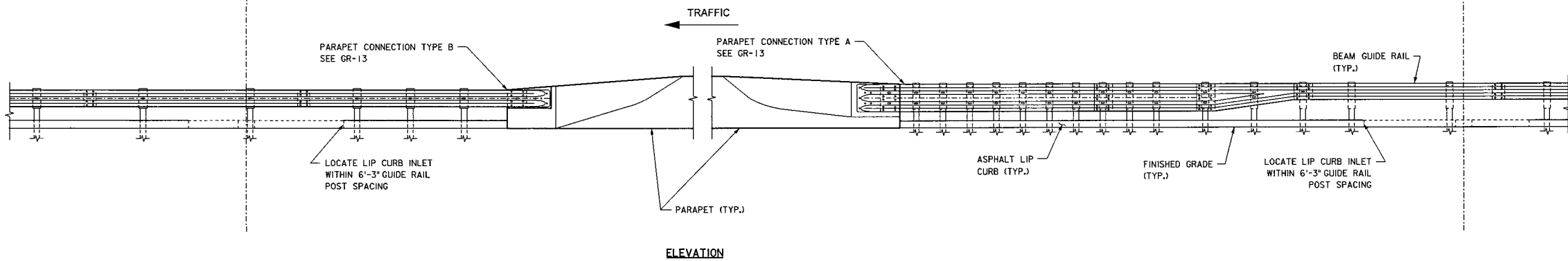
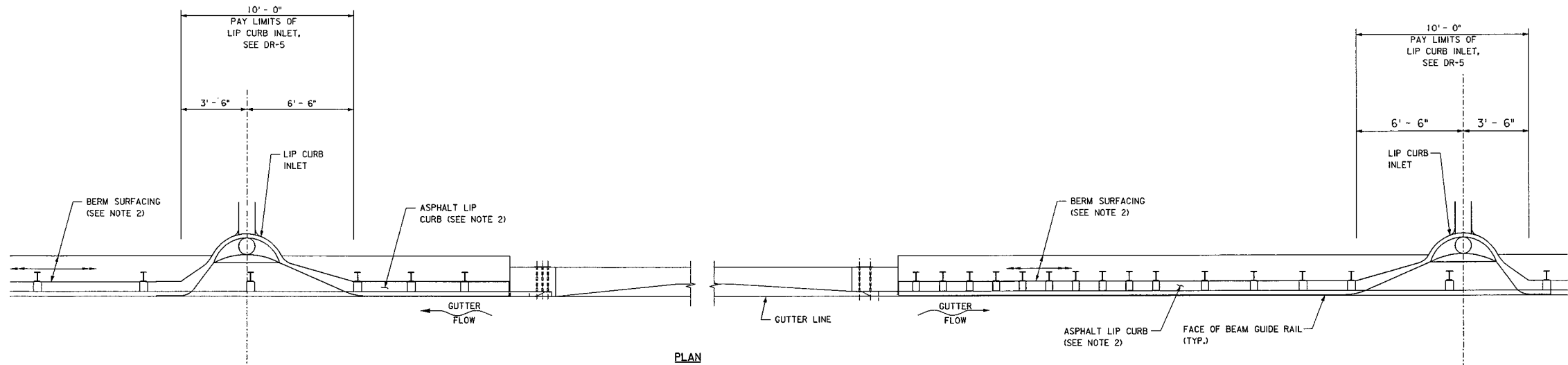

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Approved By:


Michael Garofalo, P.E.
Chief Engineer

Distribution: Senior Staff Engineering, Law, Maintenance & Operations Depts., All Prequalified Consultant Firms, File



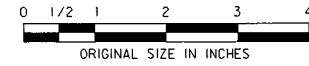
NOTES:

1. LIP CURB AND INLET TREATMENT AS SHOWN SHALL ONLY BE USED AT STRUCTURES CARRYING TURNPIKE OR PARKWAY TRAFFIC. ALL OTHER ROADWAYS SHALL FOLLOW LOCAL AGENCY'S CRITERIA AS APPLICABLE.
2. LIP CURB AND INLET TREATMENT SHALL BE INSTALLED ONLY WHERE THE GUTTER FLOW DIRECTION IS COMING FROM THE STRUCTURE AS SHOWN. WHERE GUTTER FLOW IS FROM THE APPROACH GRADE ONTO THE STRUCTURE, BERM SURFACING SHALL BE EXTENDED TO THE PARAPET. LIP CURB AND INLET SHALL BE OMITTED IN THIS CASE, OR AS CALLED FOR ON THE CONTRACT PLANS.
3. THIS DETAIL SHALL BE USED IN CONJUNCTION WITH STANDARD DRAWING DR-5 FOR ASPHALT CONCRETE LIP CURB INLET, DOWN SLOPE DRAIN AND STONE RIPRAP APRON. BERM SURFACING, 3" THICK, SHALL BE USED WITHIN THE PAY LIMITS OF THE LIP CURB INLET WHERE 3" THICK ASPHALT APRON IS CALLED FOR IN THE STANDARD DRAWING.
4. SEE CU-3 AND GR-9 FOR ASPHALT CONCRETE LIP CURB AND BERM SURFACING PLACEMENT.
5. SEE DR-1 FOR TYPE D1 DROP INLET TO BE USED IN LIEU OF DETAILS SHOWN ON THIS DRAWING FOR NEW INSTALLATIONS OR COMPLETE RECONSTRUCTION OF EXISTING LIP CURB INLETS. LIP CURB AND TYPE D1 DROP INLET TO BE PLACED RELATIVE TO THE END OF STRUCTURE CARRYING TURNPIKE OR PARKWAY TRAFFIC AS CALLED FOR ON THE CONTRACT PLANS.

△

THIS DRAWING FOR REFERENCE ONLY

THIS DRAWING MAY ONLY BE USED FOR REPAIR OF EXISTING AUTHORITY LIP CURB INLETS. NEW INSTALLATION OR COMPLETE REPLACEMENT SHALL BE PROHIBITED. SEE NOTE 5.



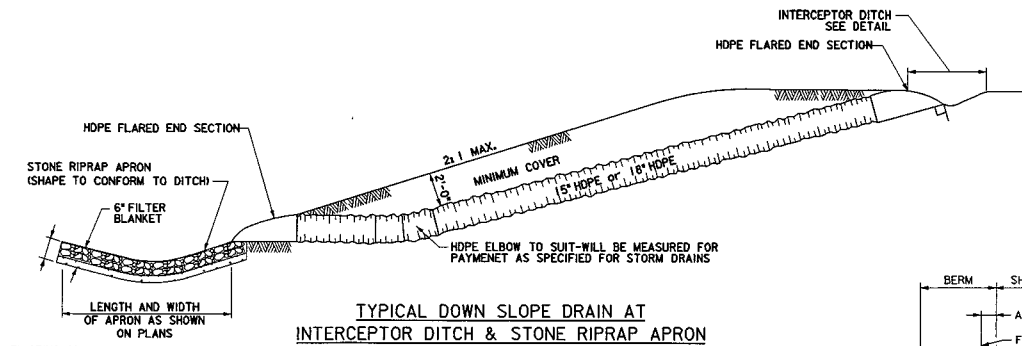
NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
GARDEN STATE PARKWAY
 STANDARD DRAWINGS

LIP CURB AND INLET TREATMENT AT BRIDGE STRUCTURES

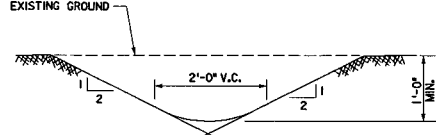
OFFICE OF THE CHIEF ENGINEER
 NEW JERSEY TURNPIKE AUTHORITY
 WOODBRIDGE NEW JERSEY

STANDARD DRAWING
CU-4

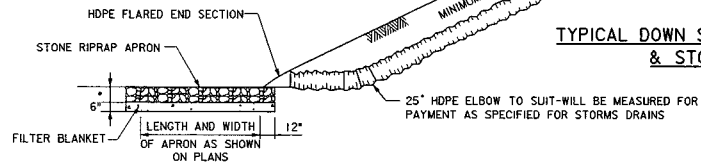
1	ADDED NOTES	01/23
0	ORIGINAL DRAWING	07/21
REV.	DESCRIPTION	DATE



TYPICAL DOWN SLOPE DRAIN AT INTERCEPTOR DITCH & STONE RIPRAP APRON



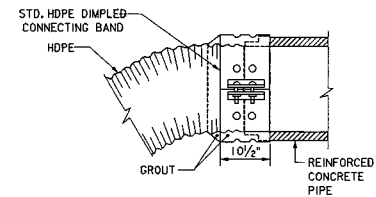
TYPICAL SECTION - INTERCEPTOR DITCH



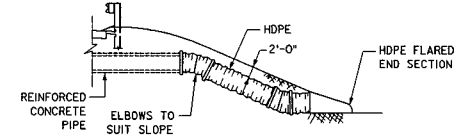
TYPICAL DOWN SLOPE DRAIN AT DROP INLET & STONE RIPRAP APRON

NOTE:
IF CALLED FOR IN THE SUPPLEMENTAL SPECIFICATIONS, FILTER FABRIC IS TO BE USED IN LIEU OF FILTER BLANKET. FOR THICKNESS, GRADATION AND PAYMENT OF STONE RIPRAP APRON, SEE STD. DWG. DR-8.

- NOTES:**
1. ALL REINFORCING TO BE WIRE MESH 6"x6", #10 X #10.
 2. FOR DETAILS OF HDPE FLARED END SECTION, SEE STD. DWG. DR-4.
 3. STONE RIPRAP APRONS TO BE FURNISHED ONLY WHERE INDICATED ON THE PLAN SHEETS.
 4. SEE STD. DWG. DR-1 FOR TYPE D1 DROP INLET DETAILS.
 5. SEE STD. DWG. CU-3 AND GR-9 FOR LIP CURB DETAILS AND BERM SURFACING LIMITS.

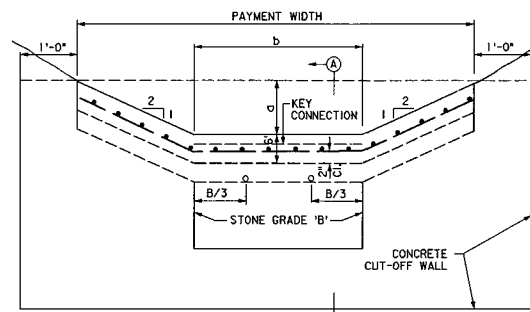
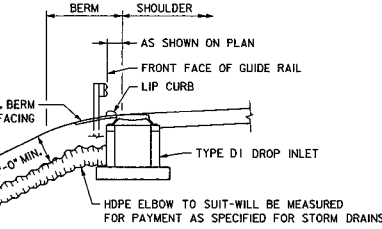


TYPICAL CONNECTION OF HDPE OUTLET IN SLOPES
(FOR HDPE OUTLET DRAIN IN SLOPE, AND FOR SPLICING NEW PIPE ONTO EXISTING DRAINS)



TYPICAL HDPE OUTLET IN SLOPES

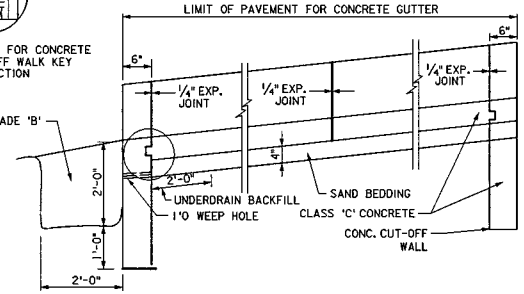
NOTE:
SEE DETAIL FOR CONNECTION OF HDPE TO REINFORCED CONCRETE PIPE.



ELEVATION



DETAIL FOR CONCRETE CUT-OFF WALK KEY CONNECTION



SECTION A-A



NEW JERSEY TURNPIKE AUTHORITY

CONCRETE GUTTER AND SLOPE DRAIN DETAILS

OFFICE OF THE CHIEF ENGINEER

2009 STANDARD DRAWING

DR-5

App	No	DATE	REVISION
	1	01/23	REPLACED LIP CURB INLET WITH TYPE D1 DROP INLET
	0	04/09	ORIGINAL DRAWING

CONTRACT NO.

SHEET NO.

OF

ASPHALT CONCRETE LIP CURB INLET
THIS DETAIL FOR REFERENCE ONLY
THIS DETAIL MAY ONLY BE USED FOR REPAIR OF EXISTING AUTHORITY LIP CURB INLETS. NEW INSTALLATION OR COMPLETE REPLACEMENT SHALL BE PROHIBITED.

- NOTES:**
1. FOR LIP CURB DETAIL, SEE STD. DWG. CU-3.
 2. FOR LIMIT OF BERM SURFACING, SEE STD. DWG. GR-9.

* FOR DIMENSIONS SEE CONSTRUCTION DETAILS

TYPE	DIMENSIONS	
	a	b
A	6"	1'-10"
B	1'-0"	2'-0"
C	1'-0"	2'-6"
D	1'-0"	3'-0"
E	1'-0"	3'-6"
F	1'-0"	4'-0"