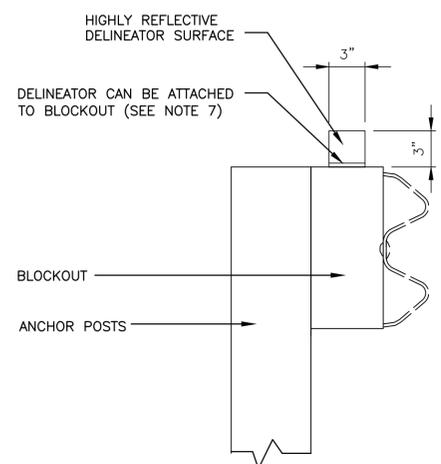


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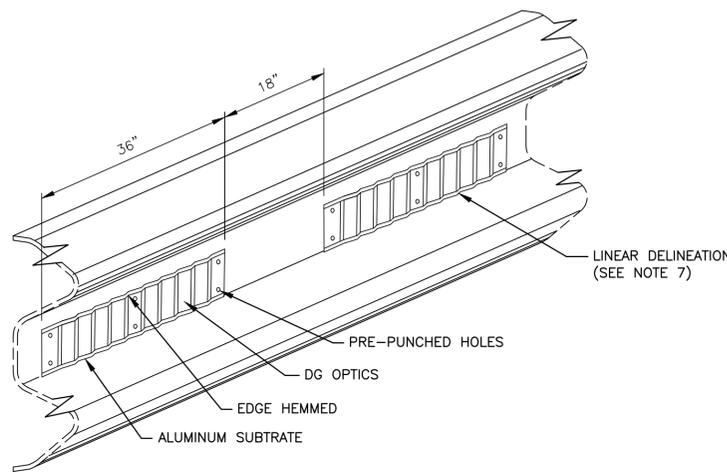
NOTES:

TD60.01.17

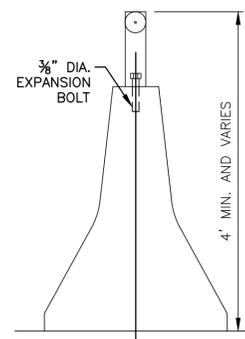
1. DELINEATOR MUST MEET THE MINIMUM REQUIREMENTS FOR REFLECTIVITY PER MUTCD.
2. MOUNTING SHOWN ON CONCRETE BARRIER IS FOR PERMANENT INSTALLATION USING BARRIER ADHESIVE. DELINEATOR CAN ALSO BE MOUNTED TO AN "L" BRACKET AND BOLTED TO THE CONCRETE SURFACE. FOR TEMPORARY MOUNTING, USE BUTYL ADHESIVE PAD ATTACHED TO THE DELINEATOR. STANDARD INSTALLATION DETAILS, DETAILED DESIGN GUIDES AND INSTALLATION PROCEDURES ARE AVAILABLE FROM THE MANUFACTURER.
3. DELINEATOR COLOR SHALL BE WHITE OR YELLOW TO CONFORM TO THE TRAFFIC SEPARATION PAVEMENT MARKING WHICH IT SUPPLEMENTS.
4. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES. MINOR MANUFACTURER VARIATION MAY BE ACCEPTABLE UPON APPROVAL OF THE ENGINEER.
5. DELINEATOR SPACING AS SHOWN ON CONTRACT DRAWINGS.
6. FOR BOX BEAM GUIDE RAIL, THE REFLECTIVE MARKERS SHALL BE ATTACHED TO THE BEAM EVERY 10 FT ON TANGENTS AND EVERY 5 FT ON CURVES WITH RAD. LESS THAN OR EQUAL TO 200 FT. THE REFLECTIVE MARKERS SHALL BE ATTACHED TO THE RAIL AS SHOWN IN THE DETAILS HEREIN. THE REFLECTIVE MARKERS SHALL CONFORM TO THE COLOR REQUIREMENTS FOR DELINEATORS IN THE MUTCD. REFLECTIVE MARKERS SHALL NOT BE REQUIRED IN THE APPROACH, TERMINAL ENDS, OR END ASSEMBLIES OF THE GUIDE RAIL AND THE END TREATMENT OF MEDIAN BARRIER.
7. INSTALL AS PER MANUFACTURER'S RECOMMENDED PROCEDURE OR AS APPROVED BY THE ENGINEER.



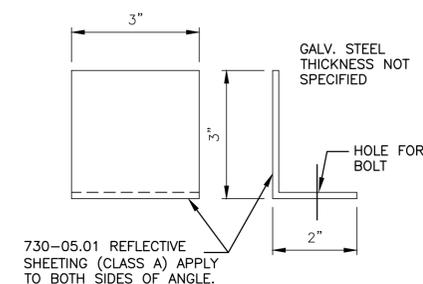
GUIDERAIL DELINEATOR
N.T.S. TD60.01.16



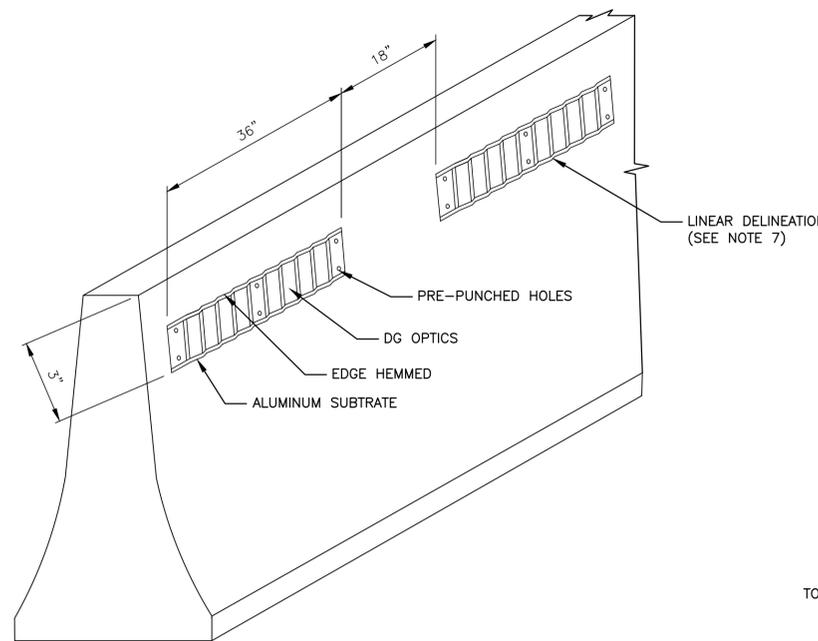
LINEAR GUIDERAIL DELINEATOR
N.T.S. TD60.01.16



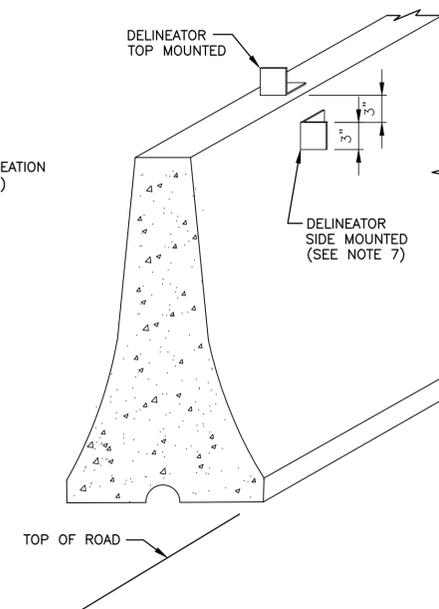
CONCRETE MEDIAN BARRIER
N.T.S. TD60.01.11



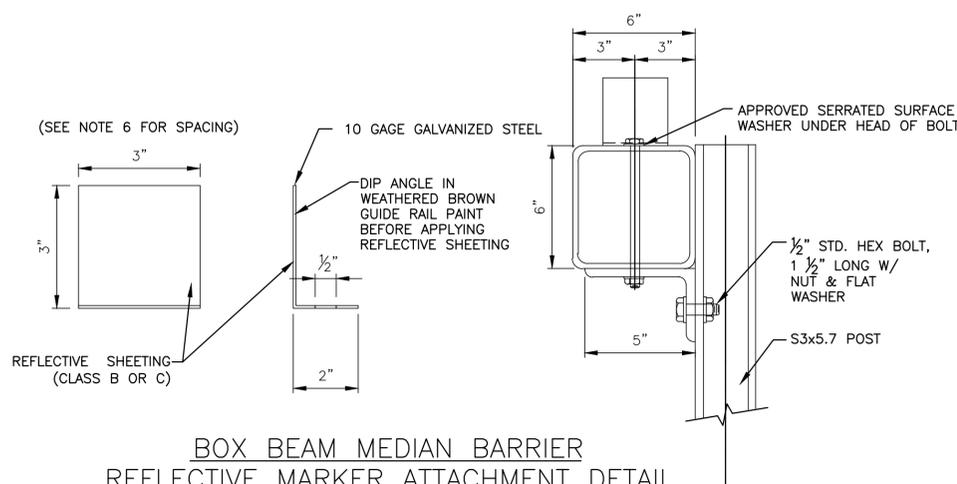
DELINEATOR DETAIL
N.T.S. TD60.01.19



LINEAR DELINEATOR SYSTEM (LDS)
N.T.S. TD60.01.18



CONCRETE BARRIER DELINEATOR
N.T.S. TD60.01.18



BOX BEAM MEDIAN BARRIER REFLECTIVE MARKER ATTACHMENT DETAIL
N.T.S. TD60.01.12

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ENGINEERING DEPARTMENT

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Details

TRAFFIC

Title
Delineation Devices and Markers

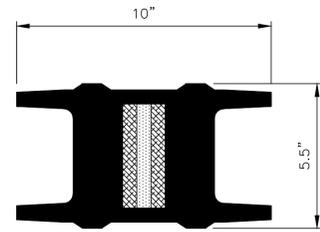
DELINEATOR DETAILS AND MOUNTING (2 OF 2)

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent. All recipients of Contract documents, including bidders and those who do not bid and their prospective subcontractors and suppliers who may receive all or a part of the Contract documents or copies thereof, shall make every effort to ensure the secure and appropriate disposal of the Contract documents to prevent further disclosure of the information contained in the documents. Secure and appropriate disposal includes methods of document destruction such as shredding or arrangements with release handlers that ensure that third persons will not have access to the documents' contents either before, during, or after disposal. Documents may also be returned for disposal purposes to the Contract Desk on the 3rd Floor, 3 Gateway Center, Newark NJ 07102 or the office of the Director of Procurement, One Madison Avenue, 7th Floor, New York, NY 10010. It is a violation of law for any person to alter a document in any way, unless acting under the direction of a licensed professional engineer or registered architect. If this document bearing the seal of an engineer/architect is altered, the altering engineer/architect shall affix to the document their seal and the notation "altered by" followed by their signature and the date of such alteration, and a specific description of the alteration.

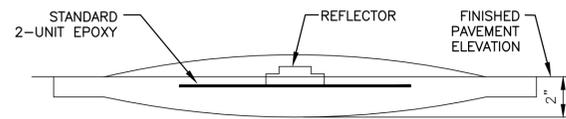
Designed by _____ Drawn by _____ Checked by _____
Date _____ 11/01/2010

Contract Number _____

Drawing Number **TD60.01**
PID# _____

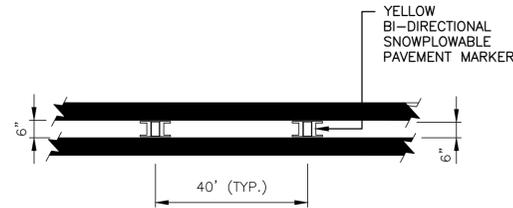


PLAN

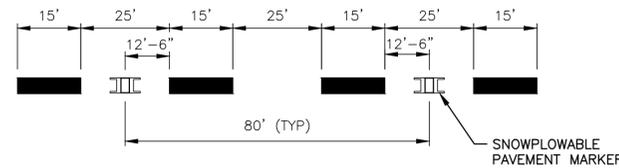


ELEVATION

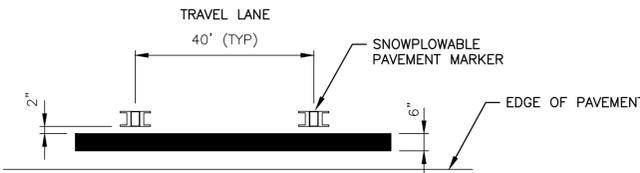
EPOXY BONDED SNOWPLOWABLE REFLECTORIZED PAVEMENT MARKER
N.T.S. TD60.03.03



FULL YELLOW BARRIER LINE (FYBL) TD60.03.04



BROKEN LANE LINE (WHITE OR YELLOW) (BLL OR BYLL) TD60.03.05



SOLID EDGE LINE (WHITE OR YELLOW) (SWEL OR SYEL) TD60.03.07

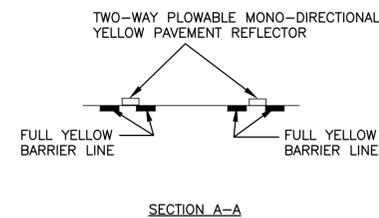
NOTES:
TD60.03.08

- EXACT LOCATION OF THE MARKERS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- THE COLOR OF THE RAISED PAVEMENT MARKERS SHOULD FOLLOW THE COLOR OF THE MARKINGS FOR WHICH THEY SUPPLEMENT OR SUBSTITUTE. FOR MONO-DIRECTIONAL PAVEMENT MARKERS, THE SIDE VISIBLE TO TRAFFIC PROCEEDING IN THE WRONG DIRECTION MAY BE RED. IN LOCATIONS WHERE HYDRANTS ARE PRESENT, INSTALL BLUE COLORED PAVEMENT MARKER.
- INSTALL AS PER MANUFACTURER'S SPECIFICATIONS. (STIMSONITE MODEL #101 LPCR OR APPROVED EQUAL)
- REFER TO CONTRACT DRAWING FOR COLOR AND TYPE (MONO-DIRECTIONAL OR BI-DIRECTIONAL)
- DIRECTIONAL COLORS YELLOW, WHITE, BLUE (HYDRANTS) AND RED.
- ALL PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH THE SPECIFICATION REQUIREMENTS OF THE CONTRACT:
SECTION 0258XC RAISED REFLECTORIZED SNOW PLOWABLE PAVEMENT MARKERS
- REFER TO DRAWING TD50.05 FOR DETAIL OF "WRONG-WAY ARROW" USING WHITE RETROREFLECTIVE RAISED PAVEMENT MARKERS.

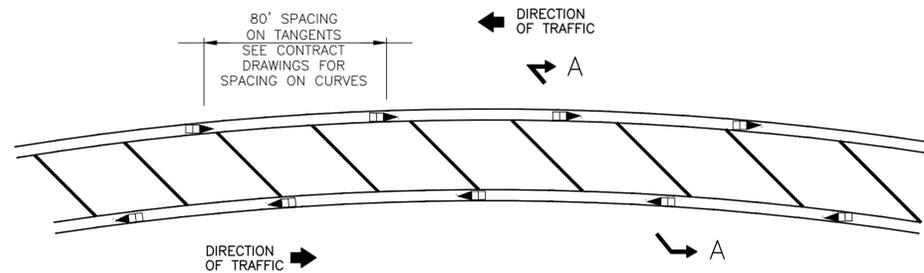
LEGEND
TD60.03.06

- TWO-WAY PLOWABLE MONO-DIRECTIONAL WHITE PAVEMENT REFLECTOR
- TWO-WAY PLOWABLE MONO-DIRECTIONAL AMBER PAVEMENT REFLECTOR
- TWO-WAY PLOWABLE BI-DIRECTIONAL AMBER PAVEMENT REFLECTOR

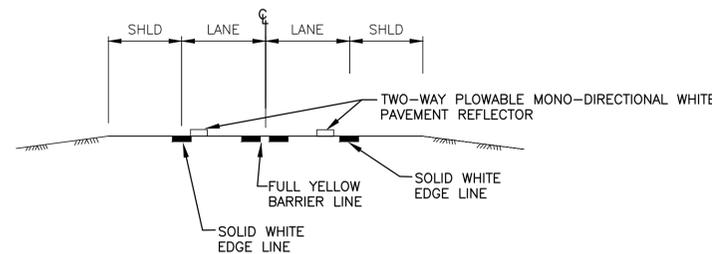
TYPICAL PAVEMENT MARKERS PLACEMENT DETAIL
N.T.S. TD60.01.08



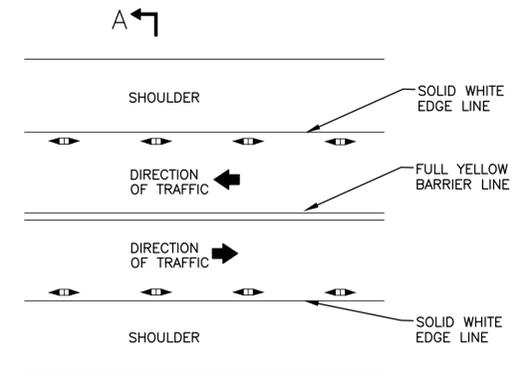
SECTION A-A



TYPICAL MEDIAN TREATMENT
N.T.S. TD60.04.04



TYPICAL SECTION A-A
N.T.S.



TYPICAL ROAD
N.T.S.

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REFLECTORIZED PAVEMENT MARKERS, LEGEND AND PLACEMENT DETAIL (1 OF 2)

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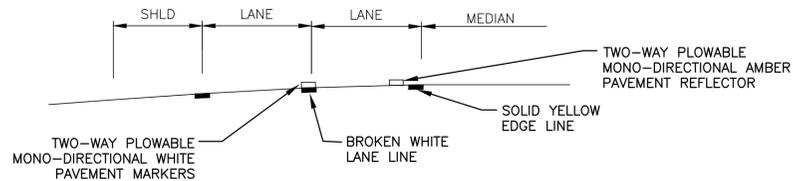
Designed by _____ Drawn by _____ Checked by _____

Date _____ 11/01/2010

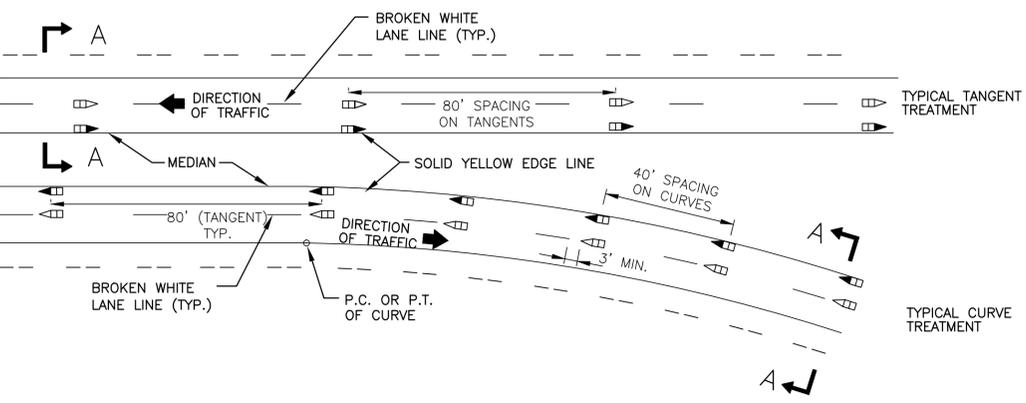
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Drawing Number TD60.03

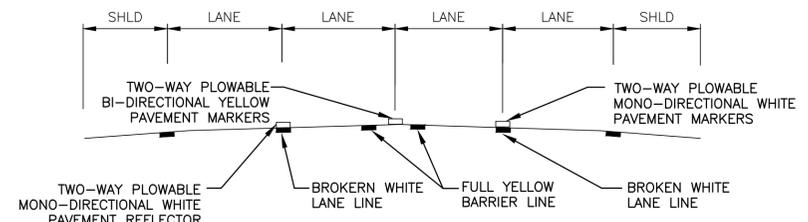
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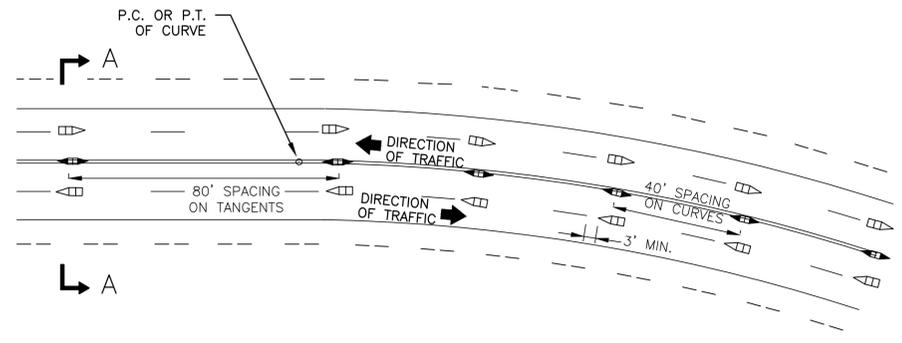
SECTION A-A (TYP.)



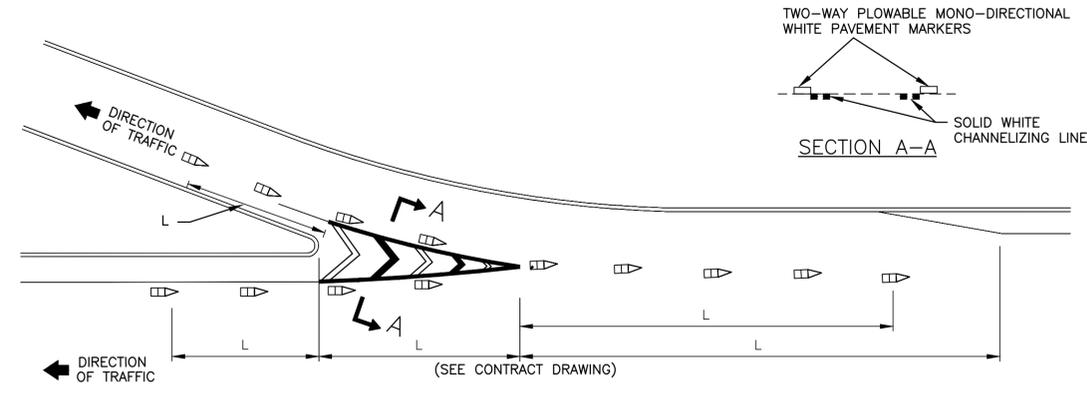
TYPICAL MULTI-LANE DIVIDED SECTION
TD60.04.07



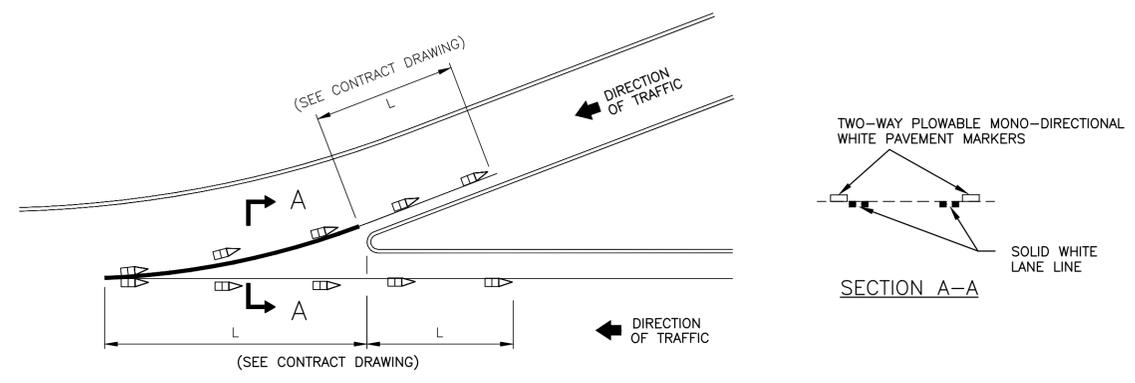
SECTION A-A



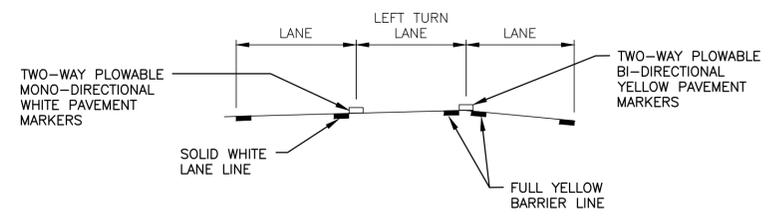
TYPICAL MULTI-LANE UNDIVIDED SECTION
TD60.04.08



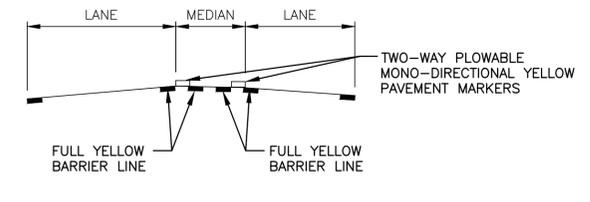
TYPICAL DECELERATION LANE TREATMENT
N.T.S. TD60.04.02



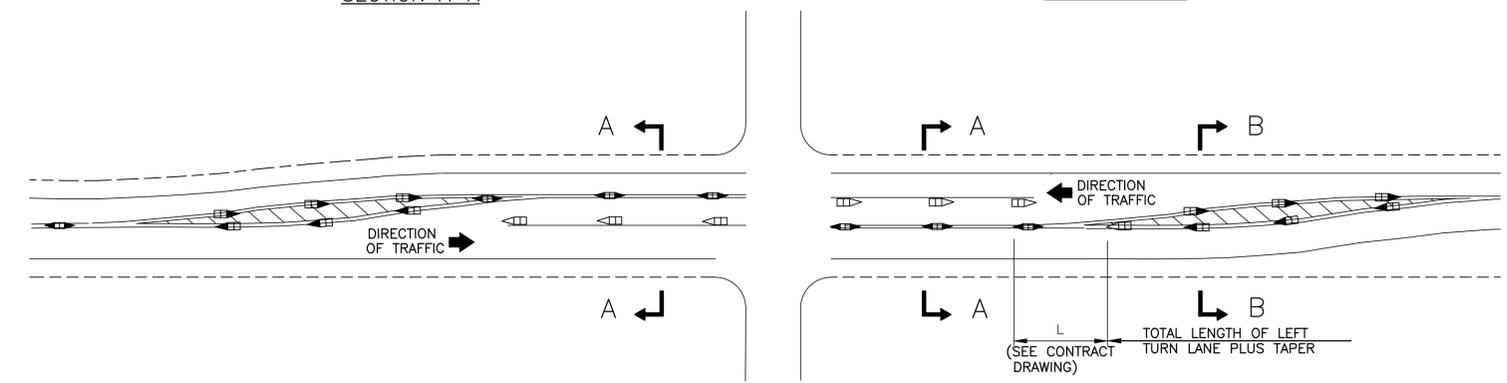
TYPICAL ACCELERATION LANE TREATMENT
N.T.S. TD60.04.05



SECTION A-A



SECTION B-B



TYPICAL LEFT TURN LANE SECTION
TD60.04.10

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**REFLECTORIZED
PAVEMENT MARKERS,
LEGEND AND
PLACEMENT
DETAIL
(2 FO 2)**

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Designed by Drawn by Checked by

Date 11/01/2010

Contract Number

Drawing Number **TD60.03**
PID#