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39A	CD-602-2A DRIVEWAY ACCESS PLATE FOR INLET TYPE B AND TYPE C CASTING	76	CD-609-15 BEAM GUIDE RAIL ATTACHMENTS		
40	CD-602-3 INLETS, TYPE B1, B2, & B, B1, & B2 MODIFIED	76A	CD-609-15A BEAM GUIDE RAIL ATTACHMENTS		

**ABBREVIATIONS**

CD = ROADWAY  
TCD = TRAFFIC CONTROL DETAILS  
BCD = BRIDGE CONSTRUCTION DETAILS

# INDEX FOR STANDARD ROADWAY CONSTRUCTION DETAILS

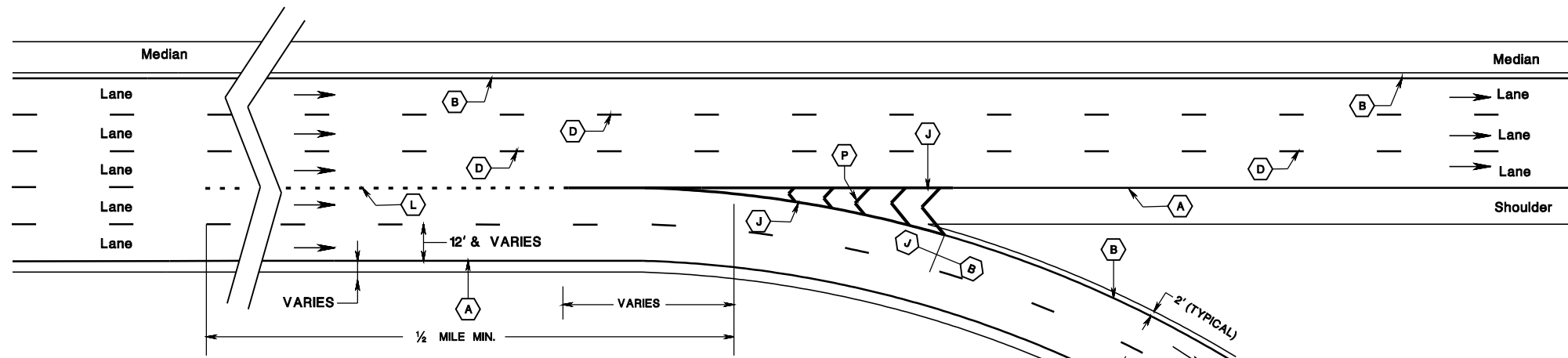
## INDEX SHEET 4

DESCRIPTION	CD	DESCRIPTION	CD	DESCRIPTION	CD
<b>SIDEWALK</b>		<b>SOIL EROSION AND SEDIMENT CONTROL</b>		CONSTRUCTION BARRIER CURB (MASH TL-3)	CD-159-3.1
CONCRETE SIDEWALK (PUBLIC SIDEWALK CURB RAMP)	CD-606-1	SOIL EROSION AND SEDIMENT CONTROL MEASURES	CD-158-1	ANCHORAGE FOR CONSTRUCTION BARRIER CURB WITH ATTACHMENT TYPE D	CD-159-3.2
CURB RAMPS	CD-606-1.1	SILT FENCE	CD-158-1.1	GENERAL NOTES	CD-159-3.3
DETECTABLE WARNING SURFACE	CD-606-2.1	ATTACHING TWO SILT FENCES	CD-158-1.2	CONSTRUCTION BARRIER CURB (ALTERNATE A) (MASH TL-3)	CD-159-4.1
CONCRETE SIDEWALK (PUBLIC SIDEWALK CURB RAMP TABLES)	CD-606-3.1	HEAVY DUTY SILT FENCE	CD-158-1.3	CONSTRUCTION BARRIER CURB (ALTERNATE B) (MASH TL-3)	CD-159-5.1
CONCRETE SIDEWALK (PUBLIC SIDEWALK CURB RAMP TABLES)	CD-606-4.1	SILT FENCE FASTENER REQUIREMENTS	CD-158-1.4	TEMPORARY CRASH CUSHION, COMPRESSIVE BARRIER SUMMARY TABLE	CD-159-10.1
CONCRETE AND HMA, DRIVEWAY AND SIDEWALK	CD-606-5	SILT FENCE ON A STEEP OR LONG GRADE	CD-158-1.5		
CONCRETE SIDEWALK, 4" THICK	CD-606-5.9	HAYBALES	CD-158-1.6		
HMA SIDEWALK, 5½" THICK	CD-606-5.10	EMBEDDING DETAIL	CD-158-1.7	<b>TRAFFIC SYMBOLS</b>	
		STABILIZED CONSTRUCTION DRIVEWAY	CD-158-1.8	TRAFFIC STRIPES AND MARKINGS	CD-610-8
		SOIL EROSION AND SEDIMENT CONTROL MEASURES	CD-158-2	TRAFFIC STRIPES AND MARKINGS	CD-610-9
<b>SIGNS</b>		HAYBALE CHECK DAM WITH TEMPORARY STONE OUTLET	CD-158-2.1	TRAFFIC STRIPES AND MARKINGS	CD-610-10
SIGNS	CD-612-1.1	STONE CHECK DAM	CD-158-2.2	TRAFFIC STRIPES AND MARKINGS	CD-610-11
SIGNS	CD-612-2.1	SLOPE DRAIN	CD-158-2.3	TRAFFIC MARKING SYMBOLS	CD-610-12
SIGNS	CD-612-3.1	INLET FILTERS, TYPE 1	CD-158-2.4	TRAFFIC MARKING SYMBOLS	CD-610-13
		INLET FILTERS, TYPE 2	CD-158-2.5	TRAFFIC MARKING ROUTE SYMBOLS	CD-610-14
		SOIL EROSION AND SEDIMENT CONTROL MEASURES	CD-158-3		
<b>SIGN SUPPORTS</b>		INLET SEDIMENT TRAP	CD-158-3.1		
STEEL U-POST SIGN SUPPORTS	CD-612-4.1	FLOATING TURBIDITY BARRIER	CD-158-3.2	<b>UNDERDRAINS</b>	
STEEL U-POST SIGN SUPPORTS	CD-612-5	STONE OUTLET SEDIMENT TRAPS, 'X'	CD-158-3.3	UNDERDRAIN TYPE F	CD-601-1.1
SPACER BAR, ANCHOR POST ASSEMBLY SIGN SUPPORTS	CD-612-5.1	SEDIMENT CONTROL TANK OR BAG	CD-158-3.4	UNDERDRAIN TYPE X	CD-601-1.2
TYPE 1 ANCHOR POST ASSEMBLY	CD-612-5.2	SOIL EROSION AND SEDIMENT CONTROL MEASURES	CD-158-4	SUBBASE OUTLET DRAIN	CD-601-1.3
STEEL U-POST SIGN SUPPORTS	CD-612-6.1	USE OF AN OIL / WATER SEPARATOR DURING DEWATERING	CD-158-4.1	COMBINED STORM DRAIN AND OUTLET TRENCH IN ROCK AREAS	CD-601-1.4
BREAKAWAY SIGN SUPPORTS FOR GROUND MOUNTED SIGNS	CD-612-7.1	ROADWAY GRADING	CD-158-4.2		
BREAKAWAY SIGN SUPPORTS FOR GROUND MOUNTED SIGNS	CD-612-8.1	TEMPORARY RUNOFF DIVERSION	CD-158-4.3		
BREAKAWAY SIGN SUPPORTS FOR GROUND MOUNTED SIGNS	CD-612-9.1	STREAM DIVERSION	CD-158-4.4		
BREAKAWAY SIGN SUPPORTS FOR GROUND MOUNTED SIGNS	CD-612-10.1				
		<b>TRAFFIC CONTROL</b>			
<b>SLOPE, OUTFALL, AND CHANNEL PROTECTION</b>		TRAFFIC CONTROL DEVICES	CD-159-1		
SLOPE, OUTFALL, AND CHANNEL PROTECTION	CD-603-1	DRUMS	CD-159-1.1		
RIPRAP STONE PROTECTION (CHANNEL/SLOPE/OUTFALL)	CD-603-1.1	TRAFFIC CONES	CD-159-1.2		
SLOPE PROTECTION AT LOW POINTS OF UMBRELLA SECTIONS	CD-603-1.2	BREAKAWAY BARRICADES	CD-159-1.3		
CONCRETE SLOPE GUTTER, 6" THICK	CD-603-1.3	TRAFFIC CONTROL DEVICES	CD-159-2		
		ILLUMINATED FLASHING ARROWS, ' x '	CD-159-2.1		
		CHANNELIZING GUIDE POSTS	CD-159-2.2		
		STOP / SLOW PADDLE	CD-159-2.3		
		TEMPORARY SIDEWALK	CD-159-2.4		
		TEMPORARY PAVEMENT MARKERS	CD-159-2.5		
		TEMPORARY TRAFFIC STRIPES AND MARKINGS	CD-159-2.6		

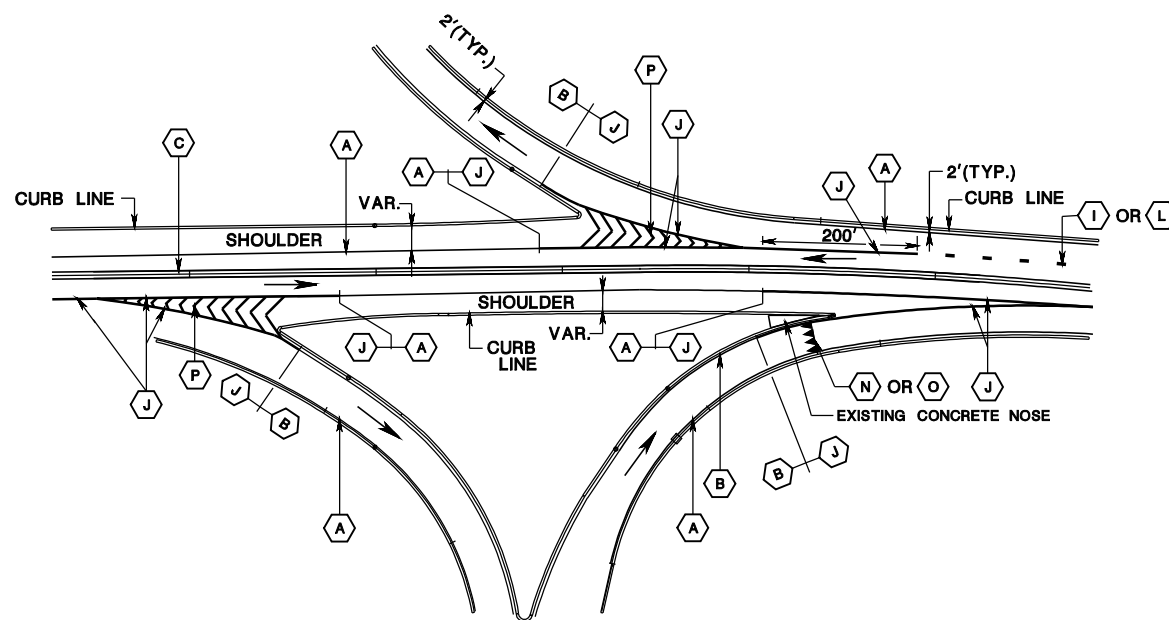
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 BDC21D-07-NEW SHEETS CD-610-9 THRU 14  
 BDC21D-06-REVISED CD-159-3, CD-159-4, CD-159-5  
 BDC21D-01-ORIGINAL SHEET

**LEGEND**

- (A) 4" SOLID WHITE LINE (6" FOR INTERSTATES)
- (B) 4" SOLID YELLOW LINE (6" FOR INTERSTATES)
- (C) 2 - 4" SOLID YELLOW LINES
- (D) 4" BROKEN WHITE LINE (6" FOR INTERSTATES)
- (E) 4" BROKEN YELLOW LINE (6" FOR INTERSTATES)
- (F) 4" DOTTED WHITE LINE  
2' LINE WITH 6' SPACE
- (G) 4" DOTTED YELLOW LINE  
2' LINE WITH 6' SPACE
- (H) 2 - 4" DOTTED YELLOW LINES  
2' LINES WITH 6' SPACE
- (I) 4" DOTTED WHITE LINE  
3' LINE WITH 9' SPACE
- (J) 8" SOLID WHITE LINE
- (K) 8" SOLID YELLOW LINE
- (L) 8" DOTTED WHITE LINE  
3' LINE WITH 9' SPACE
- (M) 12" SOLID WHITE LINE
- (N) 24" SOLID WHITE LINE
- (O) 24" (b) x 36" (h) YIELD LINES
- (P) 24" SOLID WHITE LINES  
SPACED 12' c to c @ 45°
- (Q) 24" SOLID YELLOW LINES  
SPACED 12' c to c @ 45°

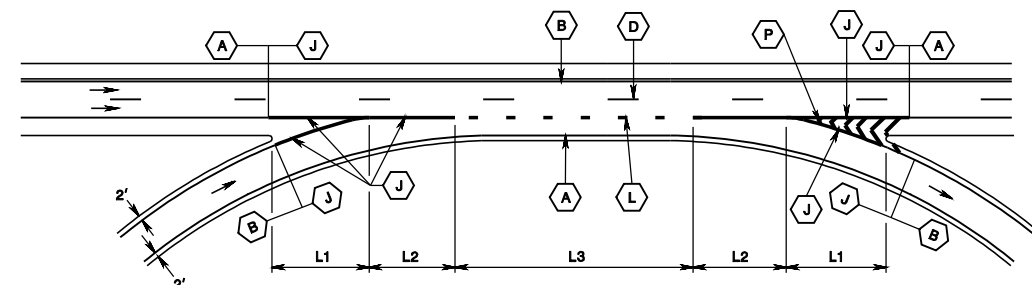


**TWO LANE DROP AT AN EXIT RAMP**

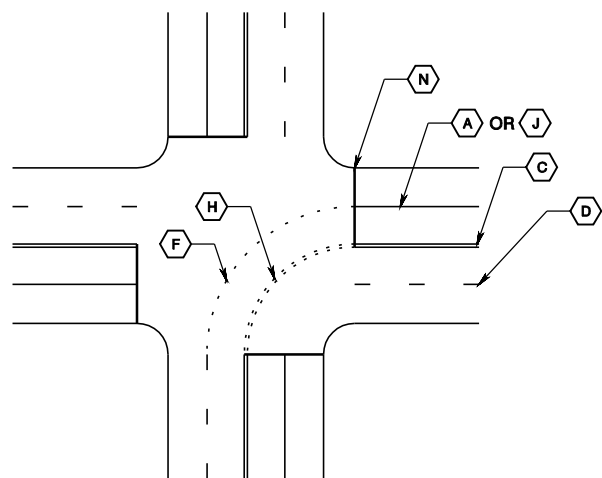


**TYPICAL RAMP STRIPING DETAIL**

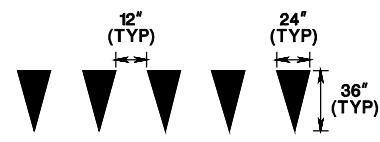
NOTE:  
INSTALL STOP LINES AND YIELD TRIANGLES IN LINE  
WITH THE EXISTING STOP SIGNS AND YIELD SIGNS.



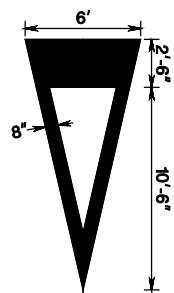
**TYPICAL ON-OFF RAMP STRIPING DETAIL**



**INTERNAL INTERSECTION TRACKING STRIPING DETAIL**



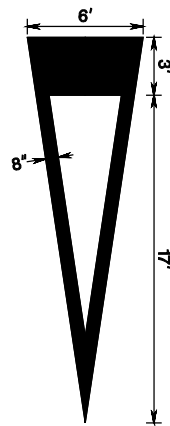
**WHITE YIELD LINES DETAIL**



AREA = 26 S.F.

**YIELD AHEAD TRIANGLE SYMBOL**

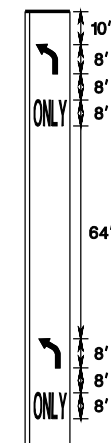
\*\*FOR ROADWAYS WITH POSTED  
SPEED LIMIT LESS THAN 45 MPH



AREA = 37 S.F.

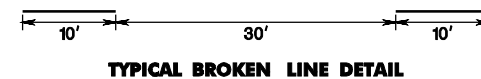
**YIELD AHEAD TRIANGLE SYMBOL**

\*\*FOR ROADWAYS WITH POSTED  
SPEED LIMIT OF 45 MPH OR GREATER



**TYPICAL TURN LANE MARKING**

CD-610-8.1



**TYPICAL BROKEN LINE DETAIL**

**TRAFFIC STRIPES  
AND MARKINGS**

N.T.S.

CD-610-8

NEW JERSEY DEPARTMENT OF TRANSPORTATION

**CONSTRUCTION DETAILS**

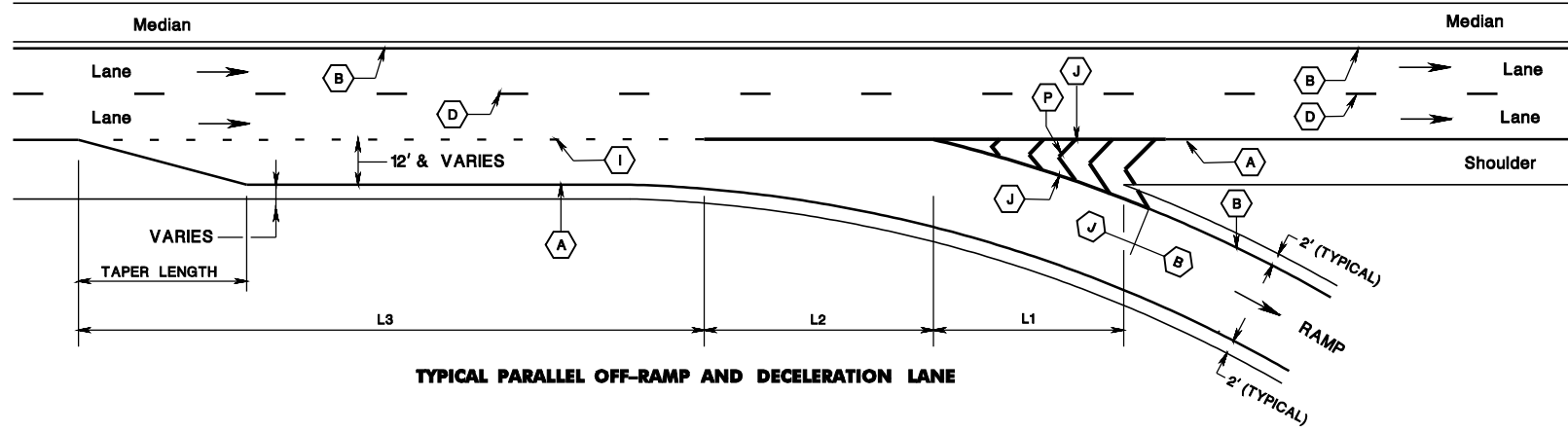
87A  
164

**OFF-RAMP AND DECELERATION LANE PAVEMENT STRIPING DETAILS**

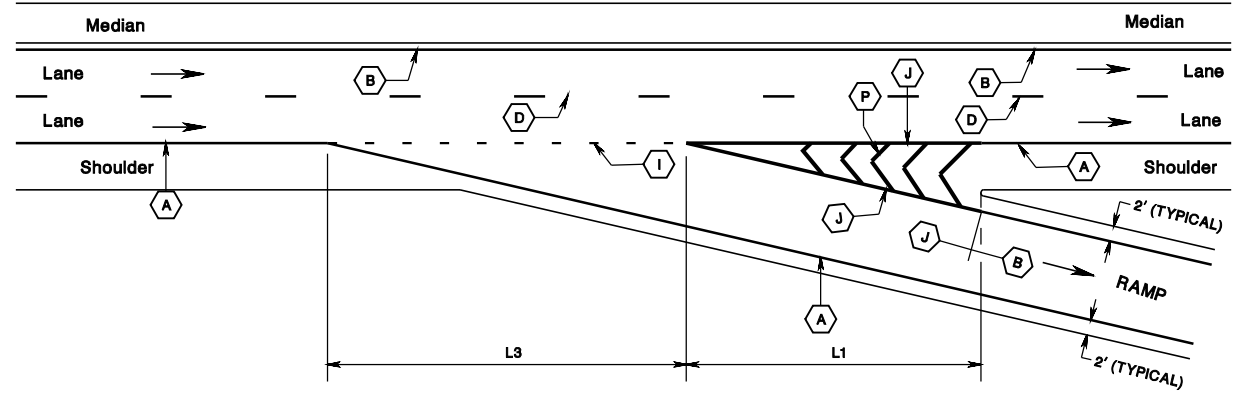
ROUTE NUMBER	DIRECTION	RAMP EXIT NUMBER	RAMP EXIT IDENTIFICATION	STATION NUMBER	L1 (FEET)	L2 (FEET)	L3 (FEET)		TAPER LENGTH (FEET)	WORK TO BE PERFORMED

**ON-RAMP AND ACCELERATION LANE PAVEMENT STRIPING DETAILS**

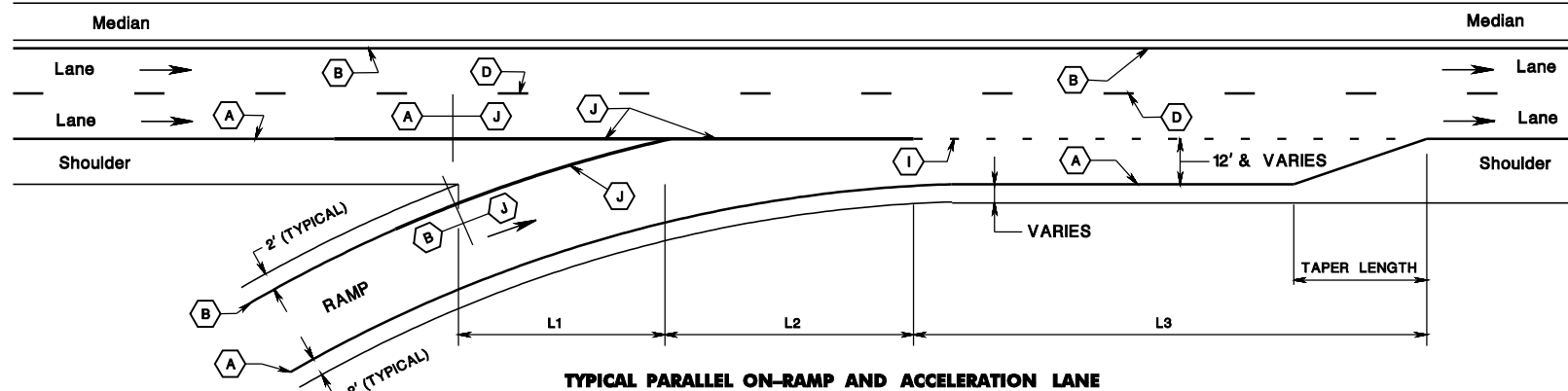
ROUTE NUMBER	DIRECTION	RAMP EXIT NUMBER	RAMP ENTRANCE IDENTIFICATION	STATION NUMBER	L1 (FEET)	L2 (FEET)	L3 (FEET)		TAPER LENGTH (FEET)	WORK TO BE PERFORMED



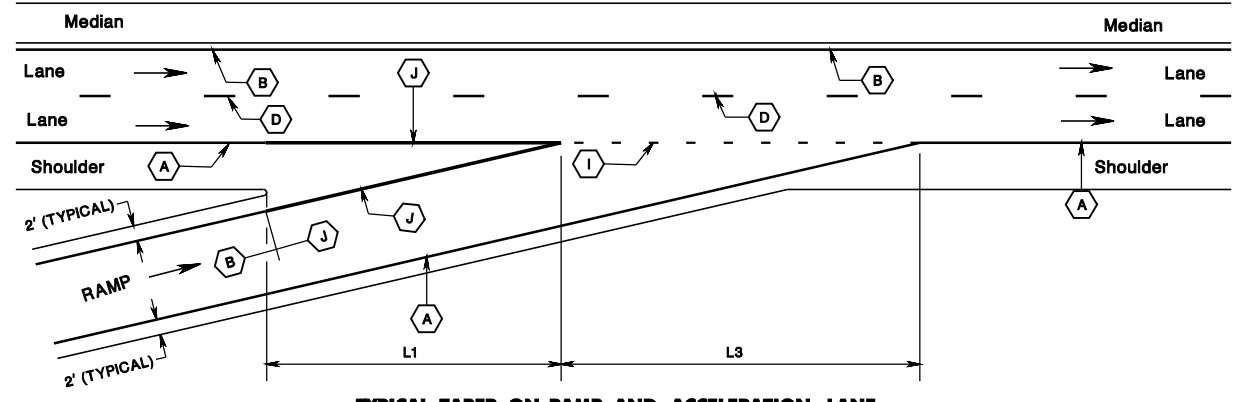
**TYPICAL PARALLEL OFF-RAMP AND DECELERATION LANE**



**TYPICAL TAPER OFF-RAMP AND DECELERATION LANE**



**TYPICAL PARALLEL ON-RAMP AND ACCELERATION LANE**



**TYPICAL TAPER ON-RAMP AND ACCELERATION LANE**

**GENERAL NOTES**

- MARK OUT AND / OR INVENTORY THE FOLLOWING BEFORE BEGINNING THE RESURFACING OPERATION:
    - TRAFFIC MARKING SYMBOLS
    - THE POINT OF CONVERGENCE OF THE PAINTED GORE FOR ACCELERATION LANES.
    - THE POINT OF DIVERGENCE OF THE PAINTED GORE FOR DECELERATION LANES.
    - THE LANE LENGTHS OF L1, L2, L3 AND THE TAPER.
    - NOTE THE EXISTING SHAPES OF ALL ACCELERATION AND DECELERATION LANES. THE MARK OUTS MUST BE ALONG THE CURB, GUIDERAIL, SHOULDER OR ANY OTHER NON-MOVABLE OBJECT OR DEVICE. THE INVENTORY CAN BE DONE BY AERIAL PHOTOGRAPHY AND / OR DRIVE-THROUGH PHOTOGRAPHY AND / OR DRIVE-THROUGH VIDEO. THE CONTRACTOR SHOULD FILL THE TABLE (ABOVE) WITH THE EXISTING DIMENSIONS AND PROVIDE THE RESIDENT ENGINEER WITH A COPY.
  - RETAIN THE EXISTING TAPER LENGTHS AND SHAPE FOR ALL ACCELERATION AND DECELERATION LANES. MAINTAIN ALL EXISTING LANE WIDTHS.
  - INSTALL RAISED PAVEMENT MARKERS (RPM) WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH CD610-1, 610-2 AND 610-3.
- L1 = DISTANCE BETWEEN THE CONVERGING OR DIVERGING POINT OF THE PAINTED GORE TO THE PHYSICAL GORE APPROACH NOSE.
- L2 = TOTAL LENGTH OF ACCELERATION OR DECELERATION LANE CONTAINING SOLID WHITE LANE LINE.
- L3 = TOTAL LENGTH OF ACCELERATION OR DECELERATION LANE CONTAINING DOTTED WHITE LANE LINES.

**LEGEND**

- |   |  |
|---|--|
| (A) 4" SOLID WHITE LINE (6" FOR INTERSTATES)          | (J) 8" SOLID WHITE LINE                            |
| (B) 4" SOLID YELLOW LINE (6" FOR INTERSTATES)         | (K) 8" SOLID YELLOW LINE                           |
| (C) 2 - 4" SOLID YELLOW LINES                         | (L) 8" DOTTED WHITE LINE 3' LINE WITH 9' SPACE     |
| (D) 4" BROKEN WHITE LINE (6" FOR INTERSTATES)         | (M) 12" SOLID WHITE LINE                           |
| (E) 4" BROKEN YELLOW LINE                             | (N) 24" SOLID WHITE LINE                           |
| (F) 4" DOTTED WHITE LINE 2' LINE WITH 6' SPACE        | (O) 24" (b) x 36" (h) YIELD LINES                  |
| (G) 4" DOTTED YELLOW LINE 2' LINE WITH 6' SPACE       | (P) 24" SOLID WHITE LINES SPACED 12' c to c @ 45°  |
| (H) 2 - 4" DOTTED YELLOW LINES 2' LINES WITH 6' SPACE | (Q) 24" SOLID YELLOW LINES SPACED 12' c to c @ 45° |
| (I) 4" DOTTED WHITE LINE 3' LINE WITH 9 SPACE         |  |

**TRAFFIC STRIPES AND MARKINGS**

N.T.S.

CD-610-9

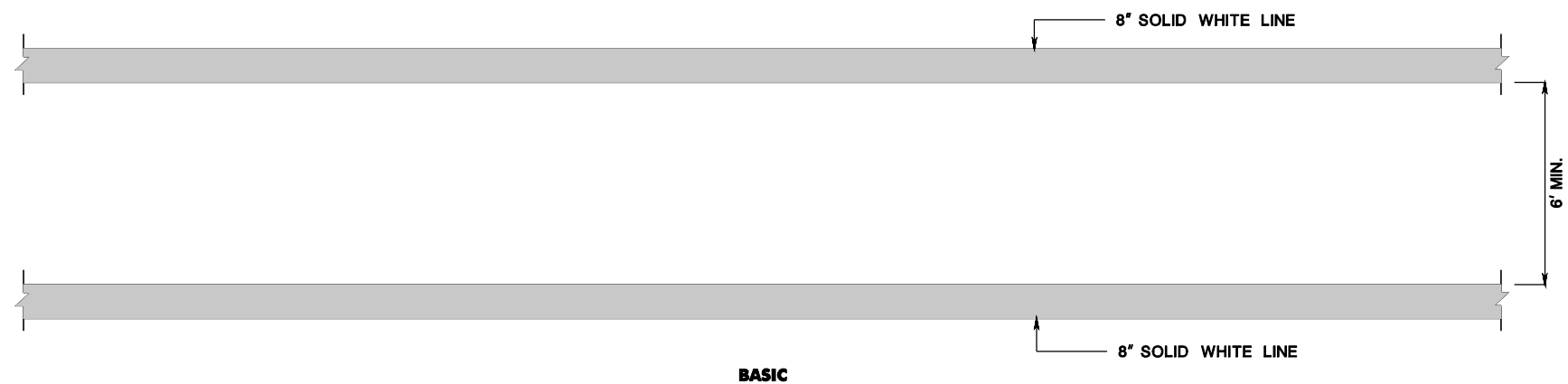
NEW JERSEY DEPARTMENT OF TRANSPORTATION

**CONSTRUCTION DETAILS**

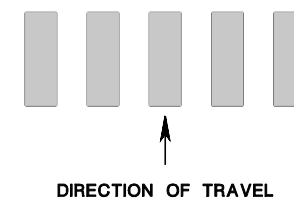
CD-610-9.1

87B  
164

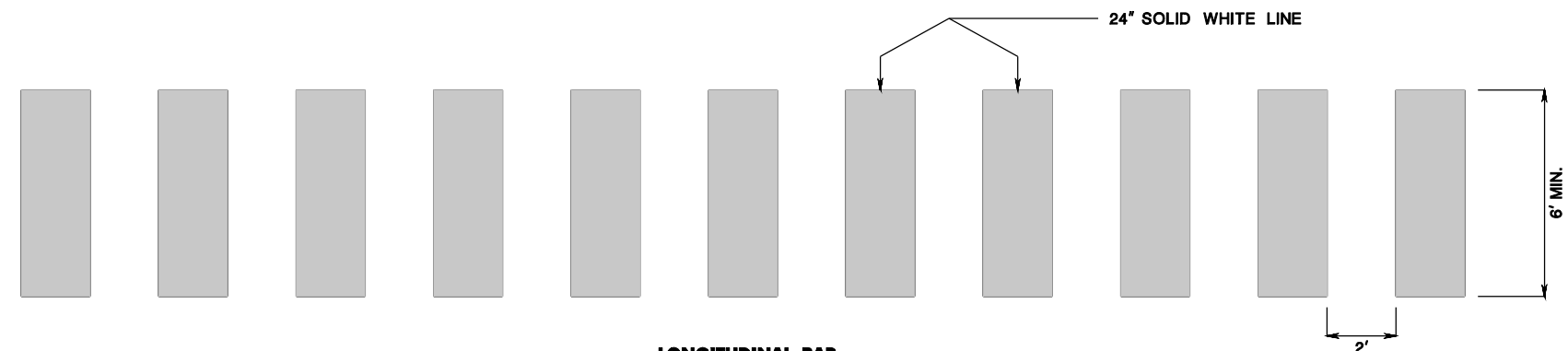
# CROSSWALK MARKINGS



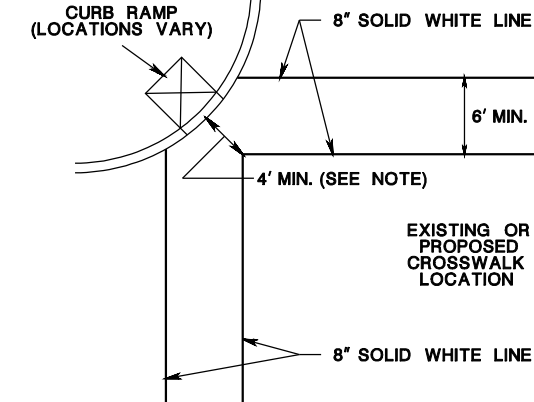
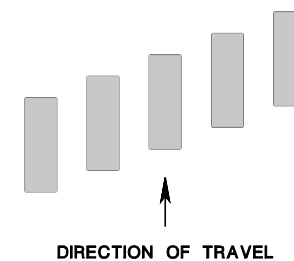
**BASIC**



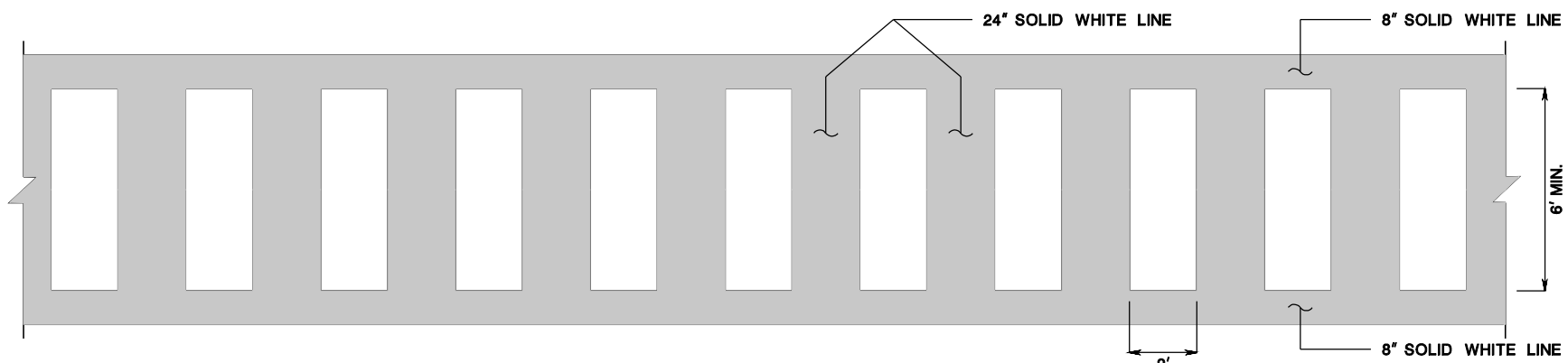
**TYPICAL CROSSWALK DETAIL**



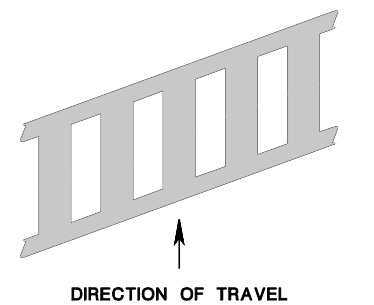
**LONGITUDINAL BAR**  
See Note #1



**DETAIL FOR CROSSWALK INTERSECTION AT CURB RAMP**



**PERPENDICULAR**  
See Note #1



**THE INNER CROSSWALK LINES MUST BE PARALLEL TO THE DIRECTION OF TRAVEL.**

- NOTES:**
1. ALLOW 4' MINIMUM CLEAR SPACE AREA FOR ACCESS TO CURB RAMP WHERE CROSSWALK LINES INTERSECT.
  2. SEE STANDARD DETAIL CD-606-2 FOR PREFERRED CROSSWALK AND CURB RAMP TREATMENT

- NOTES:**
1. Spaces between markings should be placed in wheel tracks of each lane.
  2. The "Basic" crosswalk is the current standard used by the NJDOT.
  3. The "Longitudinal Bar" and "Perpendicular" crosswalks are High-Visibility crosswalks.

## TRAFFIC STRIPES AND MARKINGS

N.T.S.

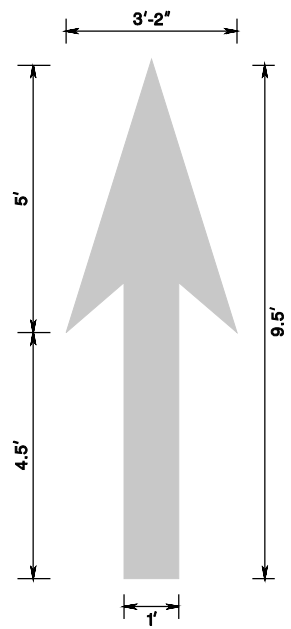
CD-610-10

NEW JERSEY DEPARTMENT OF TRANSPORTATION

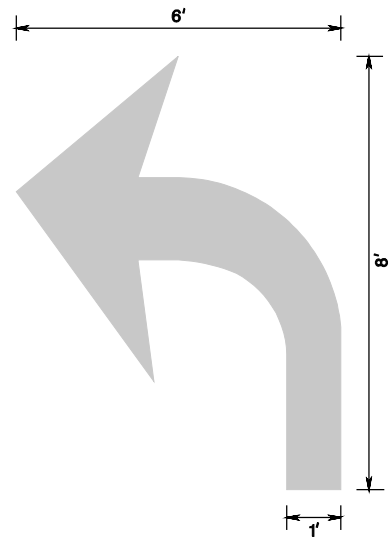
### CONSTRUCTION DETAILS

CD-610-10.1

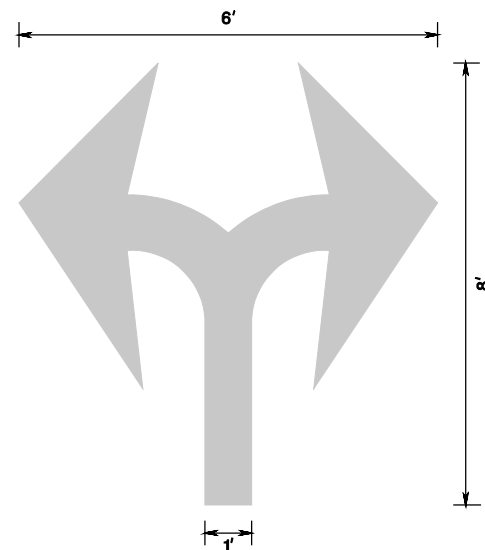
87C  
164



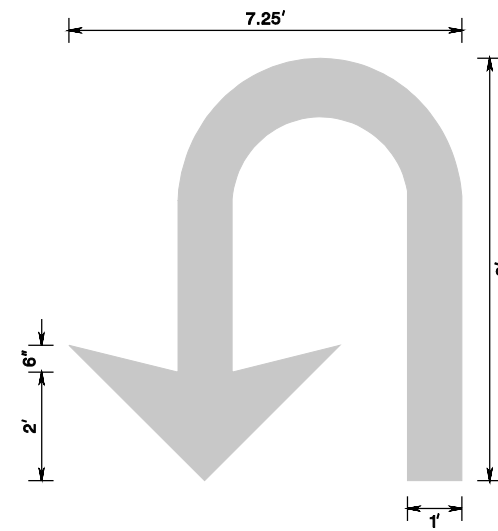
**THROUGH ARROW**  
AREA = 12 S.F.



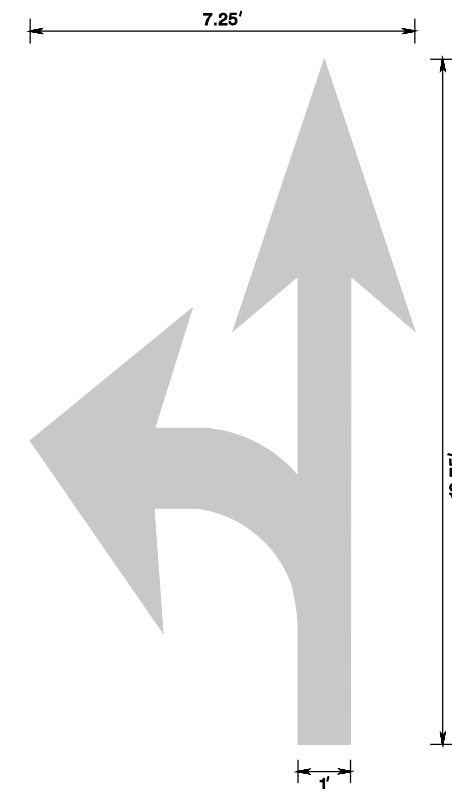
**LEFT-TURN ARROW**  
AREA = 15 S.F.  
(For Right-turn arrow, use mirror image)



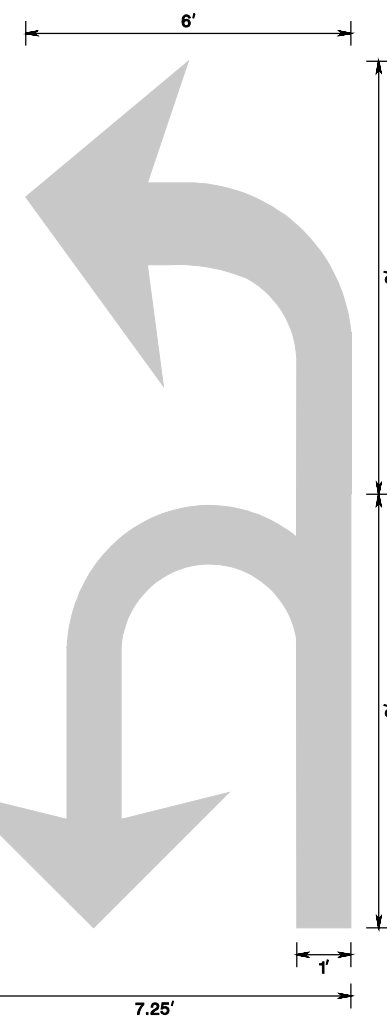
**SHARED LEFT /RIGHT ARROW**  
AREA = 27 S.F.



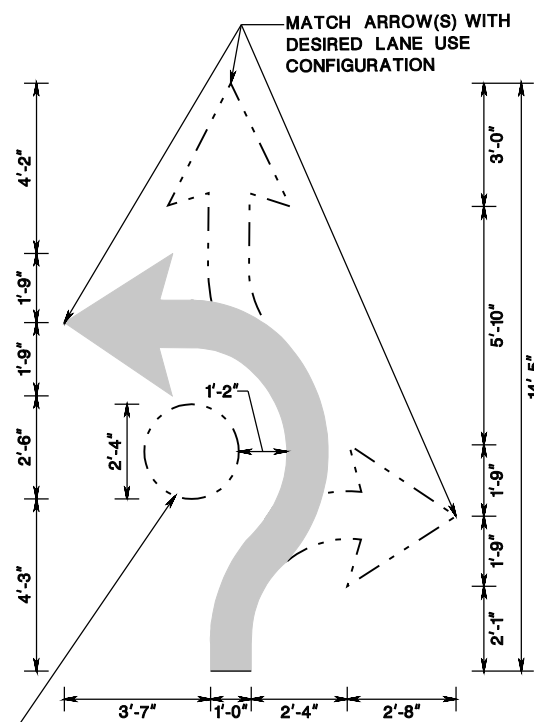
**U-TURN ARROW**  
AREA = 20 S.F.



**SHARED LEFT /THROUGH ARROW**  
AREA = 27 S.F.  
(For Shared Through/Right arrow, use mirror image)

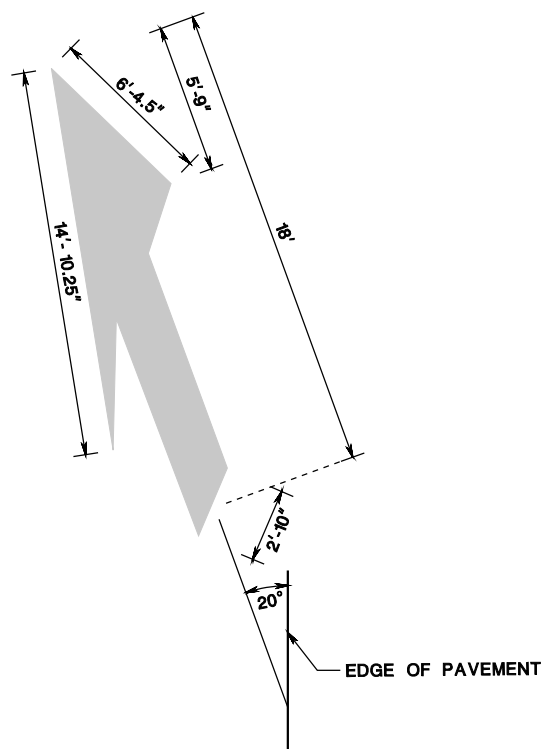


**COMBINATION LEFT-TURN /U-TURN ARROW**  
AREA = 37 S.F.

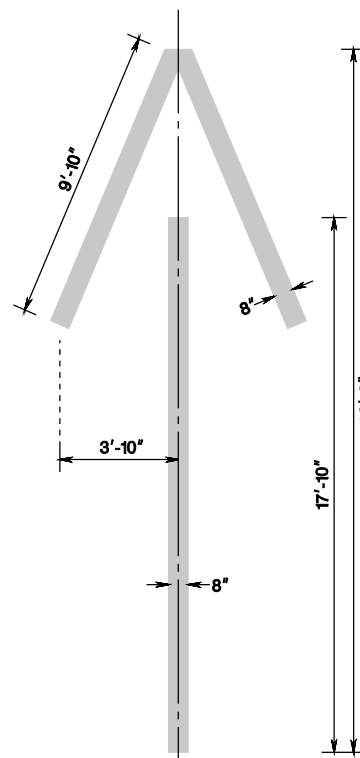


OPTIONAL FOR LEFT-MOST LANE (AREA = 4 S.F.)

**FISH-HOOK ARROWS**  
AREA (L, TH, R) = 28 S.F.  
AREA (L, TH) = 23 S.F.  
AREA (L, R) = 21 S.F.  
AREA (L) = 16 S.F.



**LANE DROP ARROW (RIGHT)**  
AREA = 42 S.F.  
(For left lane, use mirror image)



**WRONG-WAY ARROW**  
AREA = 25 S.F.

pen table= \\jtdp07\wa\8system\jtdoteng\pilot\bia\roadway\Detail\_31c17.tbl  
 scale= 617.94846:1.000000  
 date= 05-APR-2022 08:37  
 ID= 000754207  
 BDC21D-07-ORIGINAL SHEET

**TRAFFIC STRIPES AND MARKINGS**

N.T.S.

CD-610-11

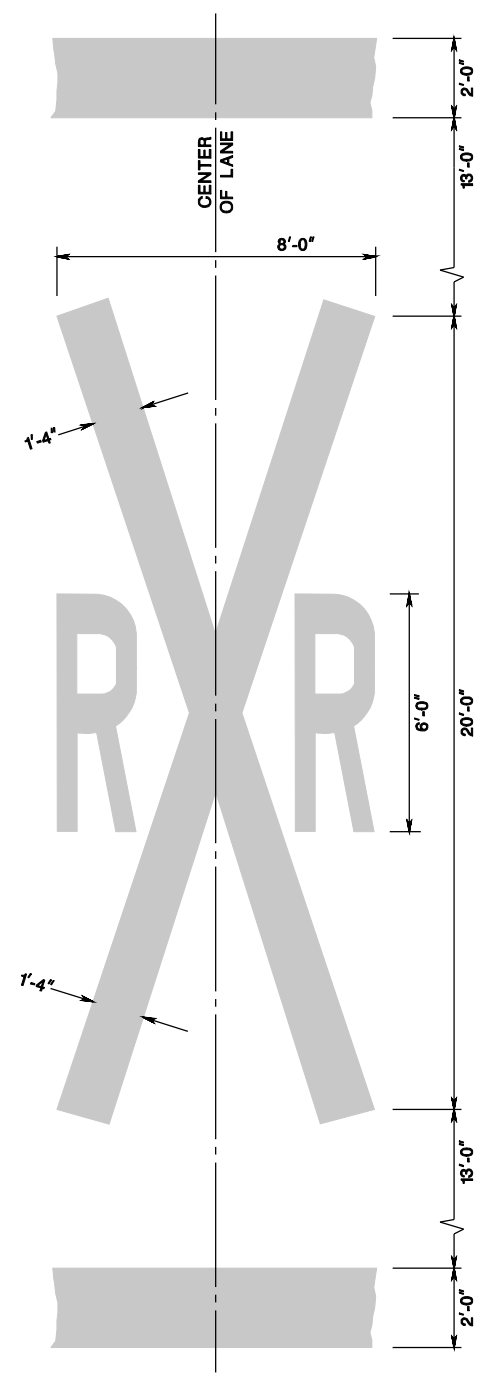
NEW JERSEY DEPARTMENT OF TRANSPORTATION

**CONSTRUCTION DETAILS**

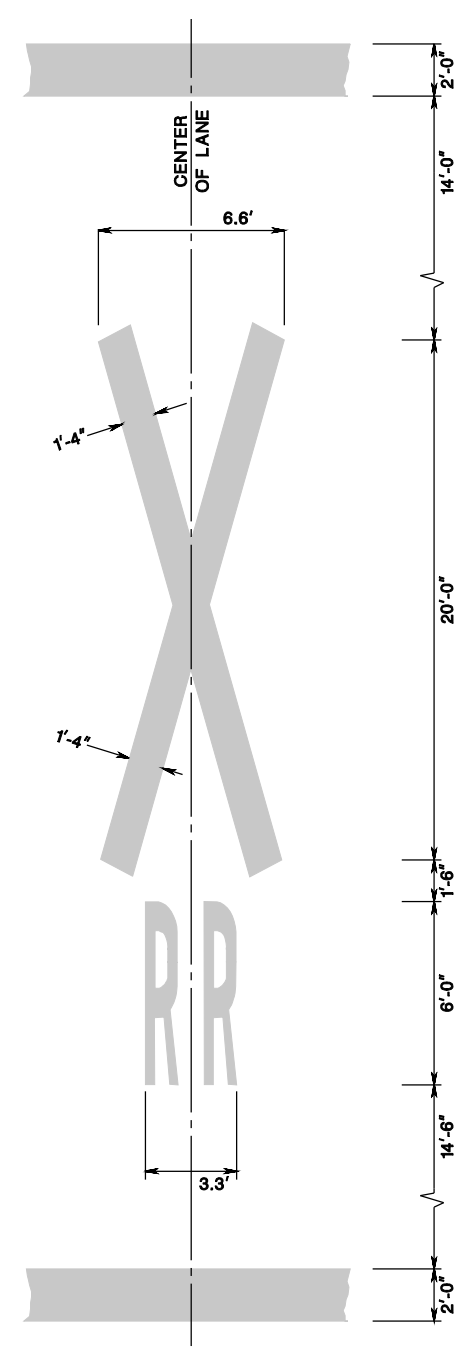
CD-610-11.1

pen table= \\jldtopprfw\vsaystem\jldotva\projects\jldotva\plot\table\roadway\Details\_11x17.tbl  
scale= 61.657249:1:0000000  
date= 05-APR-2022 08:40  
ID= 000764207

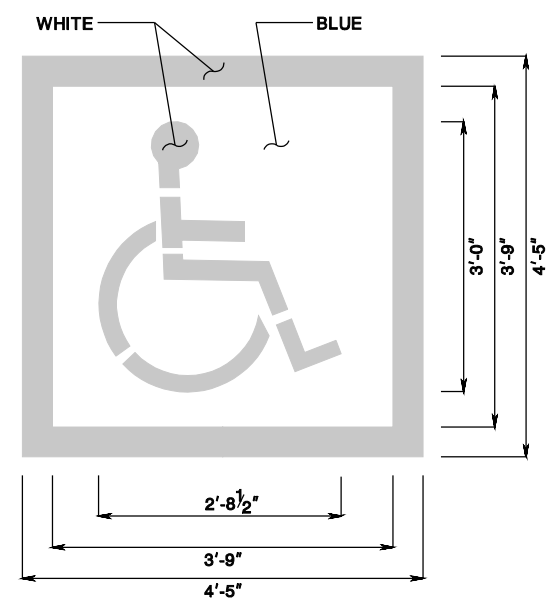
BDC21D-07 - ORIGINAL SHEET



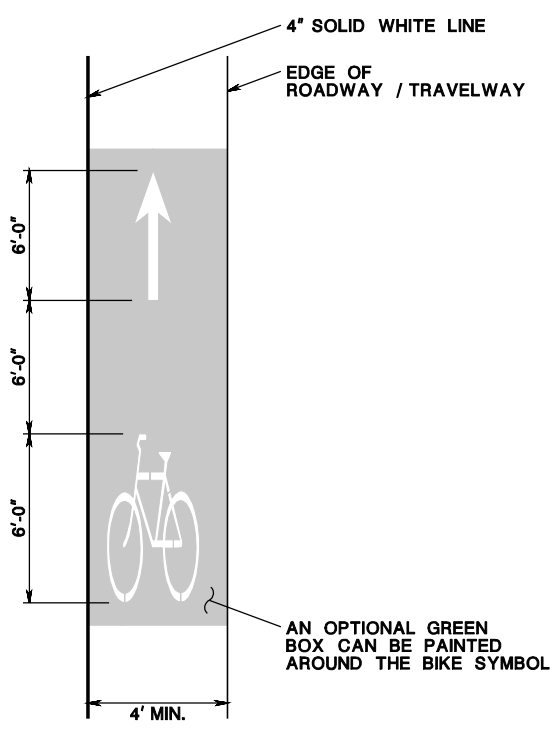
**GRADE CROSSING SYMBOL**  
AREA = 70 S.F.\*  
\*70 S.F. does not include the 2' x width of lane.



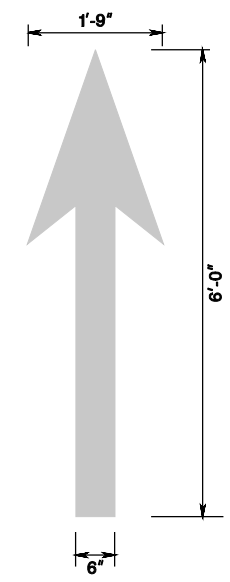
**GRADE CROSSING (NARROW ROAD) ALTERNATIVE SYMBOL**  
AREA = 63 S.F.\*\*  
\*\*63 S.F. does not include the 2' x width of lane.



**INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING**  
AREA (WHITE) = 9 S.F.  
AREA (BLUE) = 14 S.F.



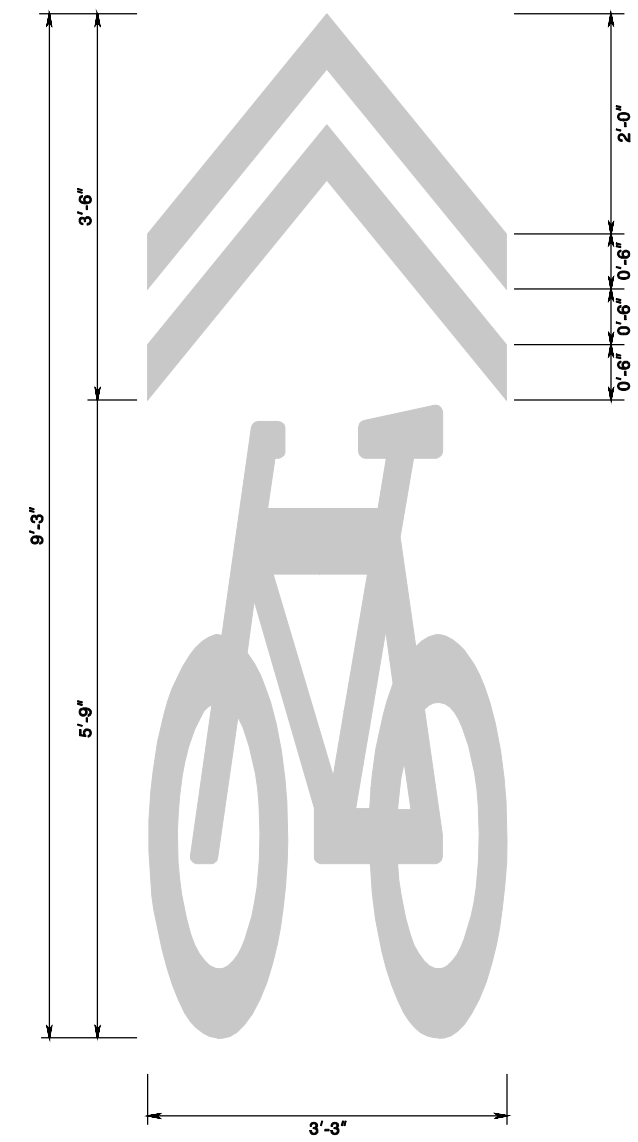
**TYPICAL BIKE LANE**



**BIKE LANE THROUGH ARROW**  
AREA = 4 S.F.



**BIKE SYMBOL**  
AREA = 7 S.F.



**SHARED ROADWAY BICYCLE "SHARROW" MARKING**  
AREA = 11.5 S.F.

**TRAFFIC MARKING SYMBOLS**

N.T.S. CD-610-12  
NEW JERSEY DEPARTMENT OF TRANSPORTATION

**CONSTRUCTION DETAILS**

**25**

AREA=17.6 S.F.

**35**

AREA=17.9 S.F.

**40**

AREA=19.5 S.F.

**MPH KEEP**

AREA = 20 S.F.

**KEEP**

AREA = 24 S.F.

**BUS ONLY**

AREA = 20 S.F.

**BIKE**

AREA = 22 S.F.

**LANE**

AREA = 21 S.F.

AREA = 24 S.F.

**YIELD**

AREA = 24 S.F.

**SLOW**

AREA = 23 S.F.

**SCHOOL AHEAD**

AREA = 35 S.F.

**AHEAD**

AREA = 31 S.F.

**TURN XING**

AREA = 24 S.F.

**PED**

AREA = 18 S.F.

**NO**

AREA = 14 S.F.

**SIGNAL LEFT**

AREA = 32 S.F.

**RIGHT STOP TO**

AREA = 26 S.F.

**TO**

AREA = 14 S.F.

**OR DO**

AREA = 14 S.F.

**DO**

AREA = 14 S.F.

**NOT**

AREA = 18 S.F.

**BLOCK**

AREA = 30 S.F.

**NORTH**

AREA = 31 S.F.

**SOUTH**

AREA = 29 S.F.

**WEST**

AREA = 24 S.F.

**EAST**

AREA = 22 S.F.

NOTES:

1. All number and letter pavement markings are white in color.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
4. Minor variations in dimensions may be accepted by the Resident Engineer.
5. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
6. Word and Symbol marking should not exceed three lines of information.
7. All Word markings are 8' in height.

**TRAFFIC MARKING SYMBOLS**

N.T.S.

CD-610-13

NEW JERSEY DEPARTMENT OF TRANSPORTATION

**CONSTRUCTION DETAILS**

CD-610-13.1

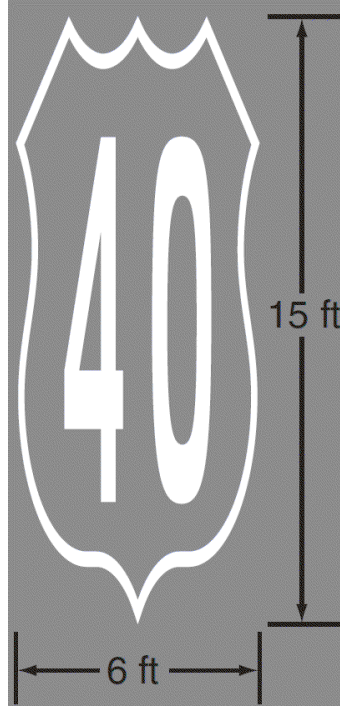


pen table= \\jtdp01pww\pwwsystem\jtdp01pww\projects\project\table\roadway\Detail\\_31x17.tbl  
 scale= 617.94946:1.000000  
 date= 05-APR-2022 08:46  
 ID= 000754207

WHITE  
(AREA= 14 S.F. PLUS  
AREA OF NUMBERS)

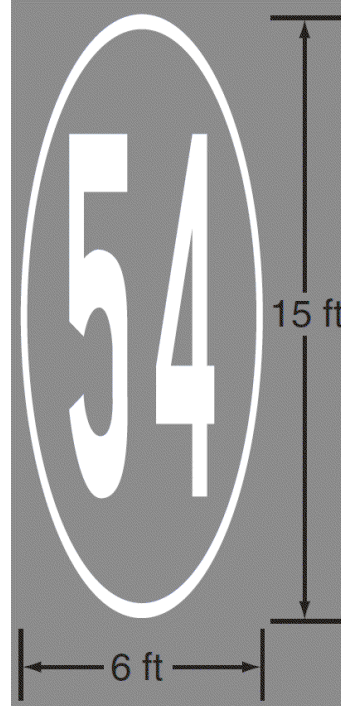
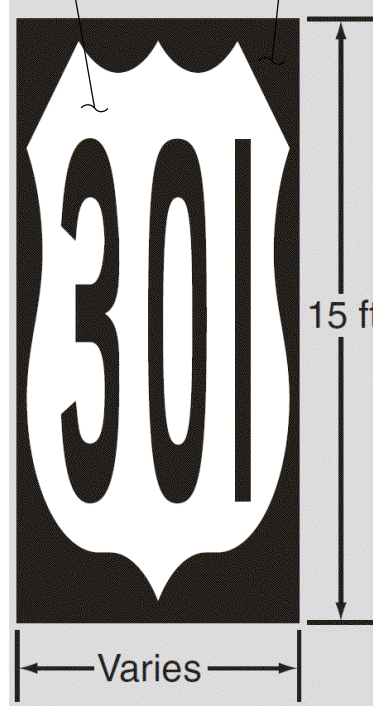
RED  
(AREA=11 S.F.)

BLUE  
(AREA= 49 S.F.  
MINUS AREA OF  
NUMBERS)



WHITE

BLACK

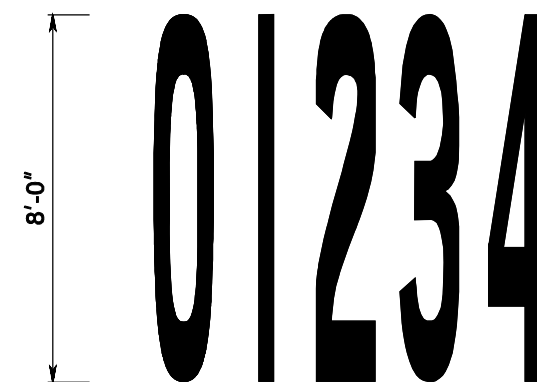


WHITE  
(AREA= 72 S.F. MINUS  
AREA OF NUMBERS)

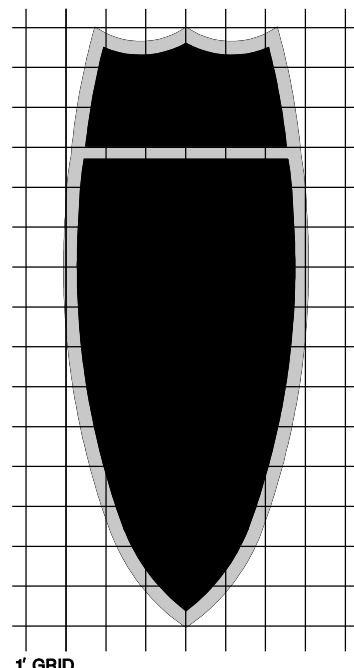
BLACK  
(AREA= 18 S.F. PLUS  
AREA OF NUMBERS)



ROUTE SHIELD NUMBER MARKINGS	
ROUTE SHIELD NUMBER	AREA (SQUARE FEET)
0	5.9
1	2.6
2	6.1
3	5.5
4	5.1
5	6.2
6	6.3
7	3.8
8	7.1
9	6.3

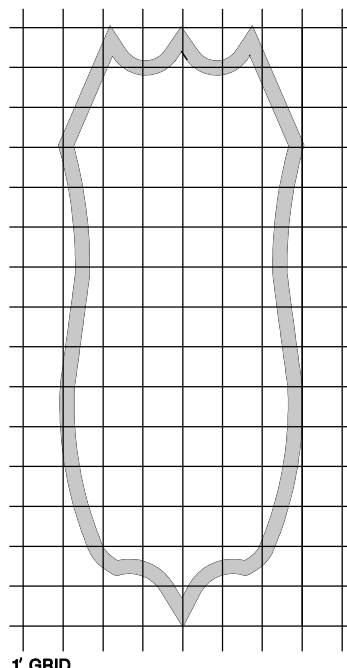


INTERSTATE SHIELD  
ON DARK OR LIGHT  
PAVEMENT  
(NUMBERS-WHITE)  
4" WHITE LINE/AREA=14 S.F.  
EXCLUDING NUMBERS]



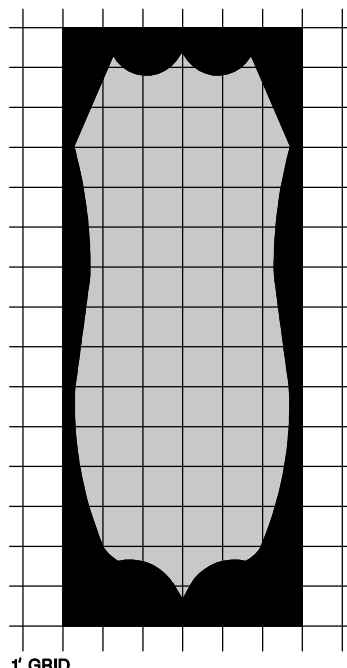
1' GRID

U.S. ROUTE SHIELD  
ON DARK PAVEMENT  
(NUMBERS- WHITE)  
4" WHITE LINE  
(AREA = 13 S.F.  
EXCLUDING NUMBERS)



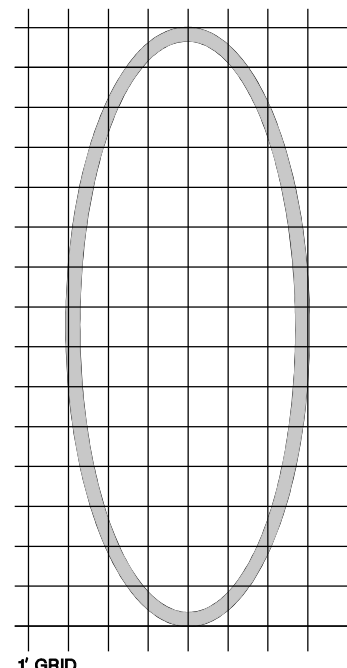
1' GRID

U.S. ROUTE SHIELD  
ON LIGHT PAVEMENT  
(NUMBERS- BLACK)



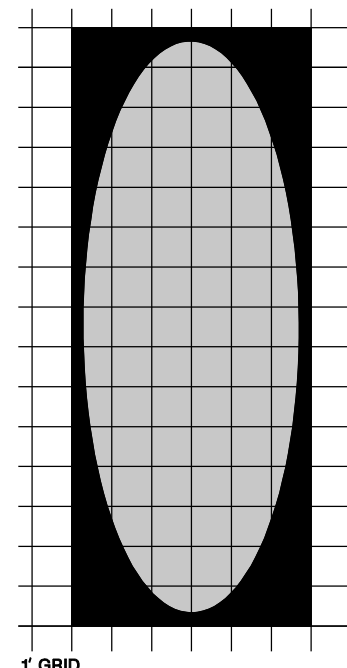
1' GRID

STATE ROUTE SHIELD  
ON DARK PAVEMENT  
(NUMBERS-WHITE)  
4" WHITE LINE  
(AREA = 11 S.F.  
EXCLUDING NUMBERS)



1' GRID

STATE ROUTE SHIELD  
ON LIGHT PAVEMENT  
(NUMBERS- BLACK)



1' GRID

**TRAFFIC MARKING  
ROUTE SYMBOLS**

N.T.S.

CD-610-14

NEW JERSEY DEPARTMENT OF TRANSPORTATION

**CONSTRUCTION DETAILS**

CD-610-14.1

87G  
164