


**ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT # 0119-0121**

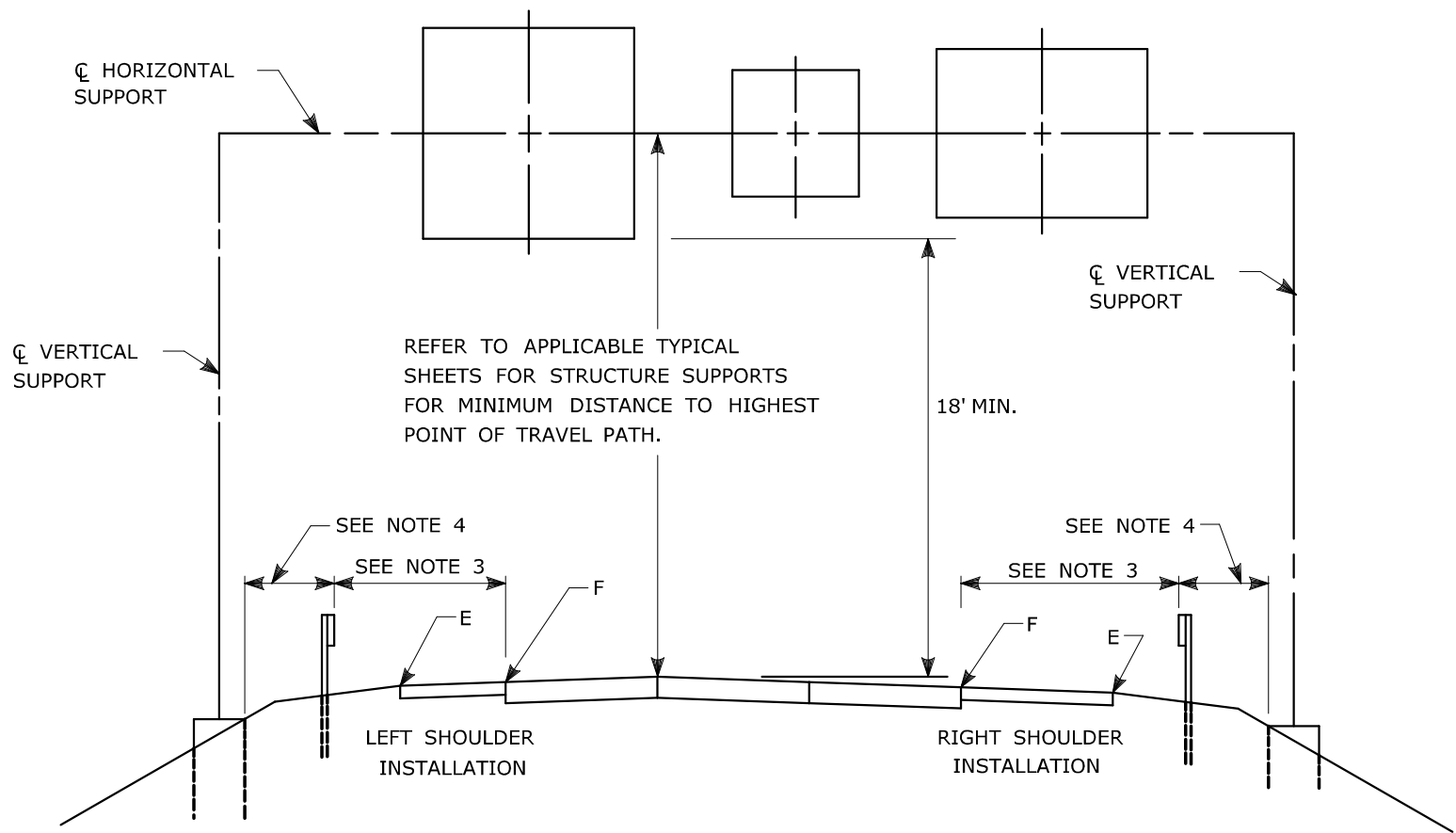
**\*\*REVISED  
OR ADDED**

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**STANDARD SHEETS SHALL BE USED WITH STANDARD SPECIFICATIONS**

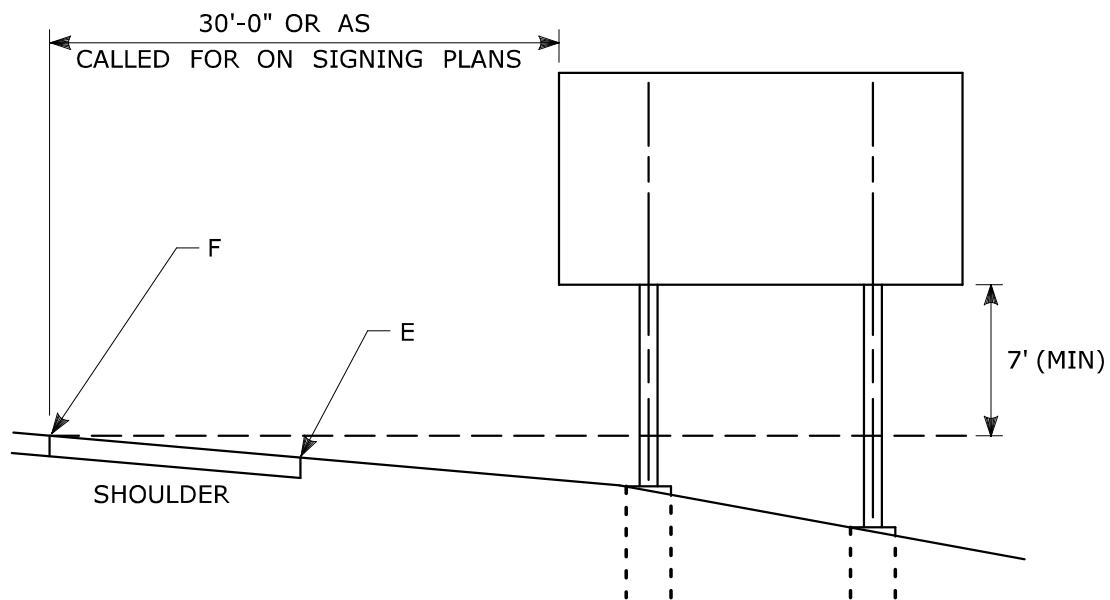
	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY: _____	APPROVED BY: _____   STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: <b>TRAFFIC STANDARD SHEET INDEX</b>	STANDARD SHEET NO.: <b>TR-STD_INDEX</b>
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TYPICAL PLACEMENT OF OVERHEAD SIGNS ON SIGN SUPPORTS

- NOTES:
- 1) FOR PLACEMENT OF CANTILEVER SIGN SUPPORT USE APPLICABLE PORTION OF ABOVE DETAIL.
  - 2) BARRIER SYSTEMS MAY BE REQUIRED FOR BOTH SIDES OF SUPPORTS IN MEDIANS.
  - 3) IMPACT PROTECTION SHALL BE PROVIDED FOR THE SIGN SUPPORTS LOCATED WITHIN CLEAR ZONE.
  - 4) SIGN SUPPORT FOUNDATIONS SHALL BE LOCATED OUTSIDE OF BARRIER SYSTEMS DEFLECTION AREA.
  - 5) ALL SIGNS ARE TO BE LEVEL, REGARDLESS OF CAMBER IN SUPPORT.



TYPICAL PLACEMENT OF SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS

- NOTES:
- 1) MIN. VERTICAL CLEARANCE ABOVE SIDEWALKS SHALL BE 7'.
  - 2) WHERE GUIDE RAIL IS USED, THE OFFSET TO THE NEAR EDGE OF SIGN FACE SHALL BE AS SHOWN ELSEWHERE IN THE CONTRACT PLANS.
  - 3) ON INTERSECTING ROADS AT RAMP TERMINI, THE OFFSET TO THE NEAR EDGE OF OF SIGN FACE SHALL BE 6' MIN. FROM POINT "E".
  - 4) IF 30'-0" MIN. CANNOT BE MET, PLEASE CONTACT THE ENGINEER.

FOR MAXIMUM EFFECTIVENESS, POSITION SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS AS FOLLOWS:

ON A TANGENT SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 90° WITH THE TRAFFIC LANE WHICH THE SIGN SERVES. SIGNS LOCATED 30 FT OR MORE FROM THE EDGE OF THE ROAD SHALL BE TURNED APPROXIMATELY 3° TOWARD THE ROAD.

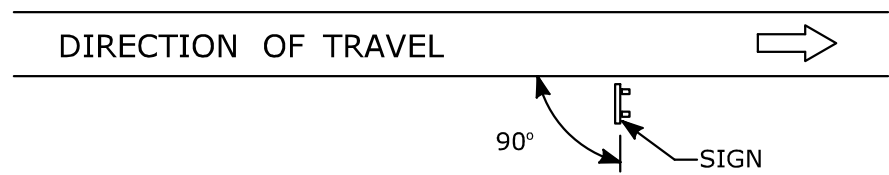


DIAGRAM "A"

ON A HORIZONTAL CURVE SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 90° WITH A STRAIGHT LINE BETWEEN THE SIGN AND THE POINT AT WHICH THE SIGN SHALL BE READ.

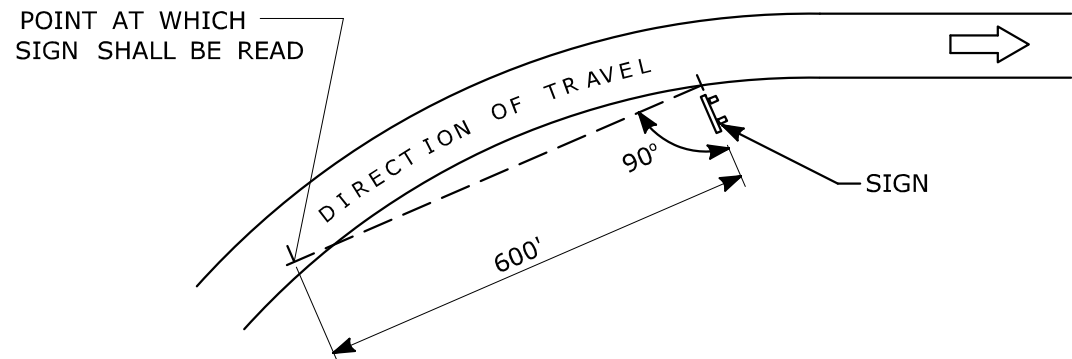
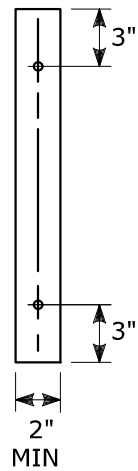


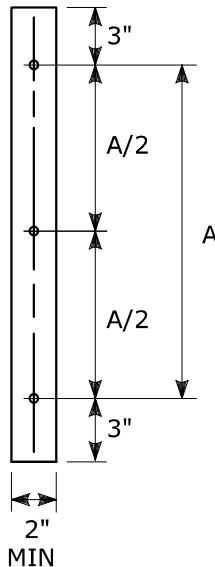
DIAGRAM "B"

SIGN ORIENTATION DETAILS FOR SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS

RETROREFLECTIVE STRIPS 48" LONG OR LESS:



RETROREFLECTIVE STRIPS OVER 48" LONG:

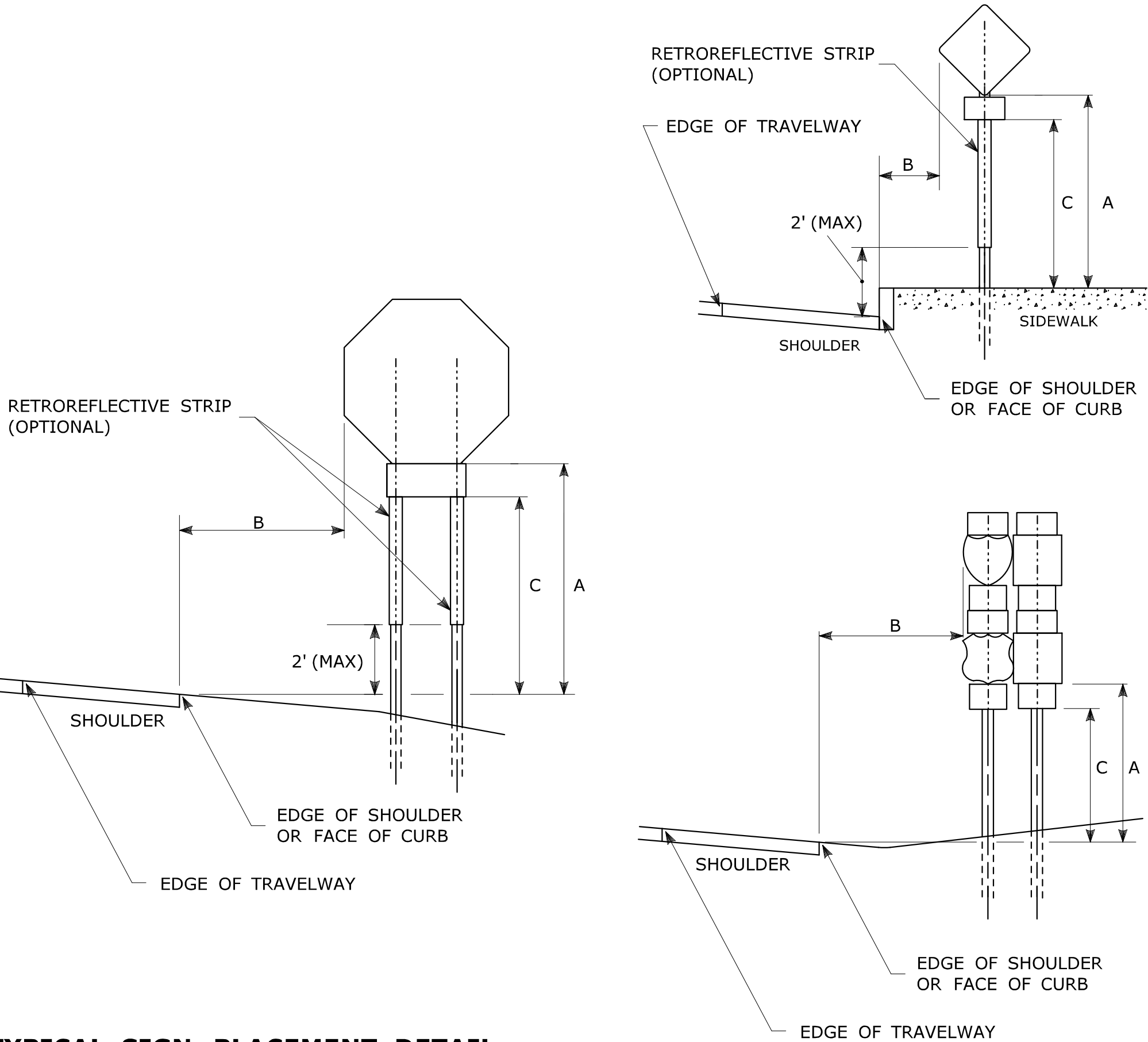


RETROREFLECTIVE STRIP DETAIL

NOTES:

RETROREFLECTIVE STRIPS WHICH ARE 48 IN LONG OR LESS SHALL BE ATTACHED USING 2 BOLTS AND RETROREFLECTIVE STRIPS OVER 48 IN LONG SHALL BE ATTACHED USING 3 BOLTS AS SHOWN ON THE DETAILS ABOVE. REFER TO STANDARD SHEET No. TR-1208.02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS" FOR MOUNTING DETAILS.

RETROREFLECTIVE STRIP COLOR SHALL MATCH THE BACKGROUND COLOR OF THE SIGN, EXCEPT THAT THE COLOR OF THE STRIP FOR "YIELD" AND "DO NOT ENTER" SIGNS SHALL BE RED.



TYPICAL SIGN PLACEMENT DETAIL

NOTES:

ALL SIGNS AND SHIELDS ON DIRECTIONAL ASSEMBLIES SHALL ABUT VERTICALLY.

REFER TO STANDARD SHEET No. TR-1208.02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS" FOR SIGN POSTS AND SIGN MOUNTING.

IF A RETFOREFLECTIVE STRIP IS USED ON SIGN SUPPORT, IT SHALL BE PLACED FOR THE FULL LENGTH OF THE SUPPORT FROM THE BOTTOM OF THE SIGN TO WITHIN 2 FT ABOVE THE EDGE OF THE ROADWAY.

PARKING SIGNS TYPICALLY USE 45° MOUNTING BRACKET.

DIM."A" MIN SIGN HEIGHT	DIM."B" MIN LATERAL OFFSET ①	DIM."C" MIN PLAQUE HEIGHT ①	ASSEMBLY LOCATION
7' ②	6' 12' ③	5'	SIGNS ON FREEWAYS AND EXPRESSWAYS EXCEPT CHEVRON ALIGNMENT SIGNS, ONE-DIRECTION LARGE ARROW SIGNS, DO NOT ENTER SIGNS, AND WRONG WAY SIGNS
5'	2'	4'	• SIGNS IN RURAL AREAS • DO NOT ENTER AND WRONG WAY SIGNS ALONG EXIT RAMP • DO NOT ENTER AND WRONG WAY SIGNS ON LIMITED ACCESS HIGHWAYS
5'	2'	N/A	• CHEVRON ALIGNMENT SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMP, AND IN RURAL AREAS • ONE-DIRECTION LARGE ARROW SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMP, AND IN RURAL AREAS
4'	6' 12' ③	N/A	INCIDENT MANAGEMENT SIGNS AND MILE POST MARKER ASSEMBLIES LOCATED ON FREEWAYS AND EXPRESSWAYS
4'	2'	4'	CENTRAL ISLANDS OF ROUNDABOUTS
7'	2' ④	6'	BUSINESS & RESIDENTIAL AREAS WHERE PARKING OR OTHER OBSTRUCTIONS LIMIT VISIBILITY
7'	2' ④	7'	SIDEWALKS ⑤



① OR AS DIRECTED BY THE ENGINEER

② 8 FT MINIMUM HEIGHT REQUIRED IF A SUPPLEMENTAL PLAQUE IS SUBMOUNTED BELOW THE MAJOR SIGN.

③ 6 FT FROM EDGE OF SHOULDER, WHEN SHOULDER IS OVER 6 FT WIDE 12 FT FROM EDGE OF TRAVELWAY, WHEN SHOULDER IS LESS THAN 6 FT WIDE.

④ A LATERAL OFFSET OF AT LEAST 1 FT FROM THE FACE OF THE CURB MAY BE USED WHERE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING UTILITY POLES ARE CLOSE TO THE CURB.

⑤ A CLEAR PATH OF NOT LESS THAN 4 FT SHALL BE PROVIDED IN SIDEWALK AREAS.

			THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		 <b>STATE OF CONNECTICUT</b> <b>DEPARTMENT OF TRANSPORTATION</b>		SUBMITTED BY: <i>Mark F. Makuch</i> NAME/DATE/TIME: Mark F. Makuch, P.E. 2018.08.17 09:06:06-04'00'	<b>CTDOT</b> <b>STANDARD SHEET</b>	STANDARD SHEET TITLE:  <b>SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS</b>	STANDARD SHEET NO.:  <b>TR-1208_01</b>
3	8-2018	INCLUDED INCIDENT MANAGEMENT AND MILE MARKER SIGNS.		NOT TO SCALE	Filename: TR_1208_01_1_2018.dgn Model: TR-1208_01	APPROVED BY: <i>Mark F. Carlini</i> NAME/DATE/TIME: Mark F. Carlini, P.E. 2018.08.21 07:48:06-04'00'	<b>OFFICE OF ENGINEERING</b>			
2	4-2017	MINOR REVISIONS.								
1	2-2011	MINOR REVISIONS.								
REV.	DATE	REVISION DESCRIPTION	Plotted Date: 8/10/2018							

SECTION A-A

3 1/2"

3/4" TYP.

2"

1 5/16"

1"

3/8" DIA.  
HOLES 1" O.C.

LENGTH AS REQUIRED

3"

TAPER

Detailed description: The drawing consists of two parts. The top part is a cross-section labeled 'SECTION A-A' showing a U-shaped profile. The top flange has a width of 3 1/2 inches and a height of 3/4 inch (typical). The vertical stem has a height of 2 inches. The bottom flange has a width of 1 5/16 inches. The bottom part is a side elevation of a tapered post. The post is tapered from top to bottom. It features a series of circular holes along its length, with a diameter of 3/8 inch and a center-to-center spacing of 1 inch. The top of the post has a 1-inch wide flange. The bottom of the post is tapered to a point, with a 3-inch wide base at the bottom. A dimension line indicates the length is 'AS REQUIRED'. A 'TAPER' label points to the conical bottom of the post.

Diagram illustrating the components and dimensions of a sign panel assembly:

- WASHER**  $\frac{11}{32}$ " I.D. X  $\frac{11}{16}$ " O.D. X  $\frac{1}{16}$ " THICK
- SELF LOCKING NUT WITH PLASTIC OR FIBER INSERT**
- NYLON WASHER**  $\frac{3}{8}$ " I.D. X  $\frac{5}{8}$ " O.D. X  $\frac{1}{32}$ " THICK
- BACK-UP PLATE**  $\frac{1}{8}$ " THICK
- SIGN PANEL**
- $\frac{5}{16}$ " BOLT HEX HEAD**

Diagram illustrating the components of a sign panel assembly:

- WASHER  $\frac{11}{32}$ " I.D. X  $\frac{11}{16}$ " O.D. X  $\frac{1}{16}$ " THICK
- SELF LOCKING NUT WITH PLASTIC OR FIBER INSERT
- NYLON WASHER  $\frac{3}{8}$ " I.D. X  $\frac{5}{8}$ " O.D. X  $\frac{1}{32}$ " THICK
- BACK-UP PLATE  $\frac{1}{8}$ " THICK
- SIGN PANEL
- $\frac{5}{16}$ " BOLT HEX HEAD

2"

3 1/2"

3/8" DIA. HOLE

BOLTS - STAINLESS STEEL CONFORMING TO ASTM F593,  
ALLOY GROUP 1 OR 2 (ALLOY TYPES 304 OR 316).  
SELF LOCKING NUTS - STAINLESS STEEL CONFORMING TO ASTM F594,  
ALLOY GROUP 1 OR 2 (ALLOY TYPES 304 OR 316).  
WASHERS - STAINLESS STEEL CONFORMING TO ASTM A240,  
(ALLOY TYPES 304 OR 316).

Diagram illustrating the dimensions and components of a pile:

- Overall length: 6'-6" OR LENGTH AS REQUIRED
- Top section: 3/4" diameter holes, 1" O.C.
- Ground Line
- 24" MIN EMBEDMENT
- Bottom section: 3" (75) diameter, TAPER

1. STEEL FOR DELINEATOR POSTS SHALL BE ASTM A36 STEEL.  
STEEL FOR ALL OTHER POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A 499 GRADE 80 AND TO THE CHEMICAL REQUIREMENTS OF ASTM A1 CARBON STEEL TEE RAIL HAVING NOMINAL WEIGHT (MASS) OF 91 LBS. OR GREATER PER LINEAR YARD.
2. AFTER FABRICATION, ALL STEEL POSTS, STRAPS AND PLATES SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A123.
3. WASHERS FOR BREAKAWAY INSTALLATIONS SHALL MEET ASTM F436, TYPE 1.
4. SPACER BAR FOR BREAKAWAY INSTALLATION SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A36.
5. ALL BOLTS, NUTS, AND WASHERS FOR BREAKAWAY INSTALLATIONS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A153.
6. ALL SIGN POSTS SHALL HAVE BREAKAWAY FEATURES THAT MEET AASHTO REQUIREMENTS CONTAINED IN THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS." THE BREAKAWAY FEATURES SHALL BE STRUCTURALLY ADEQUATE TO CARRY THE SIGNS SHOWN IN THE PLANS AT 60 mph WIND LOADINGS. INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
7. SIGN POSTS SHALL BE 4 LBS./FT.

SECTION F-F

DIRECTION OF TRAVEL

SIGN POST

F

F

STEEL

POST

BASE

42"

4" MAX REVEAL

4"

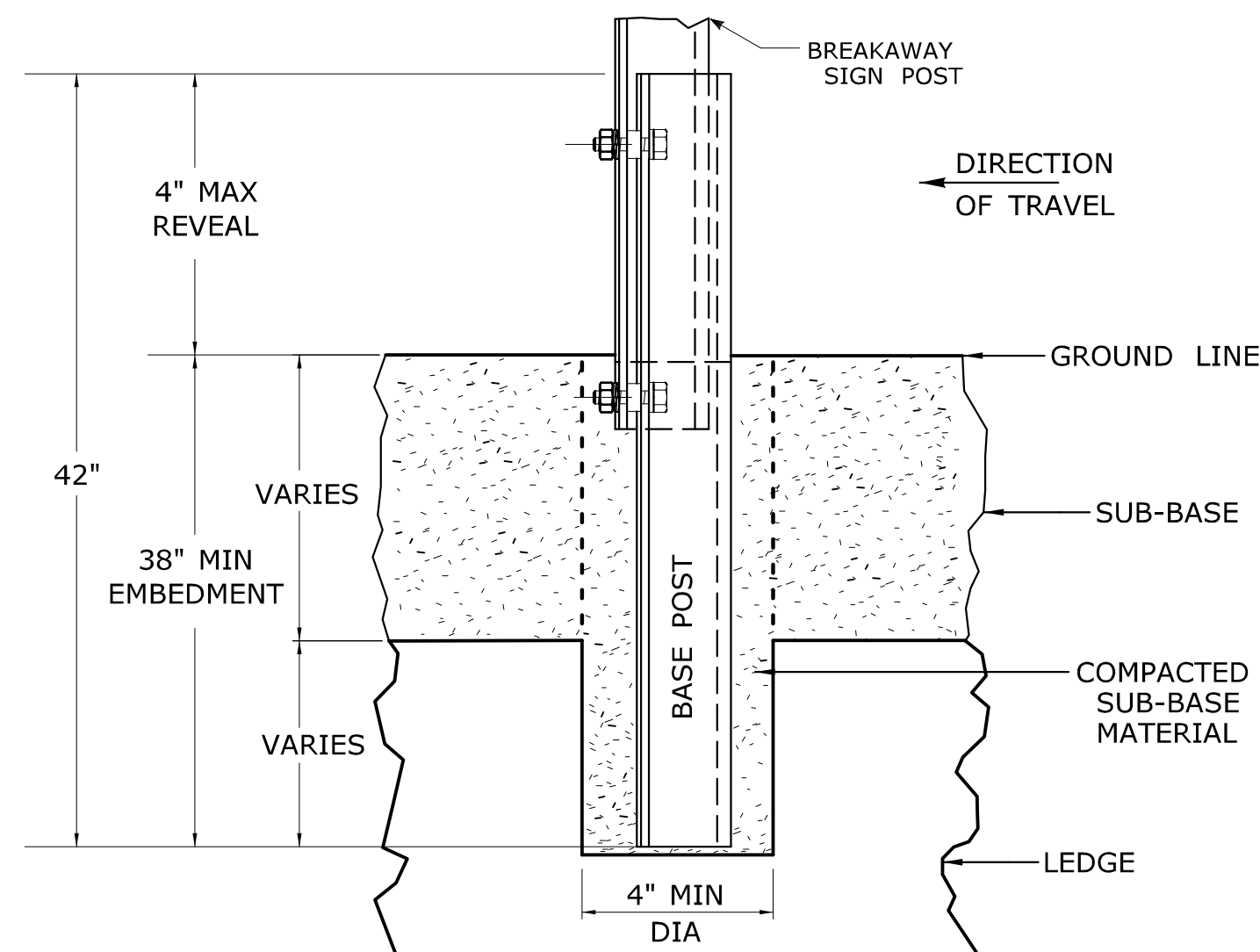
GROUND LINE

38" MIN EMBEDMENT

5/16" DIA. GRADE 9 CADMIUM PLATED HEX HEAD BOLT WITH FLAT WASHER, LOCK WASHER AND HEX NUT.

4" WIDE X 1/2" Thk. BREAKAWAY SYSTEM MASH OR NCHRP 350 REQUIREMENTS POSTS

HOLE SHALL BE FILLED WITH SUB-BASE MATERIAL AND COMPACTED WITH A TAMPING BAR, OR TECHNIQUE APPROVED BY THE ENGINEER, PRIOR TO BASE POST INSTALLATION.



Technical drawing of a sign panel assembly, showing a front view (top) and a side view (bottom).

**Front View Dimensions:**




- Overall width:  $6\frac{1}{4}"$
- Distance from left edge to center hole:  $3\frac{1}{8}"$
- Overall height:  $1"$
- Distance from top edge to center hole:  $\frac{3}{8}"$  DIA. HOLE
- Distance from center hole to right edge:  $\frac{1}{2}"$

**Side View Dimensions:**

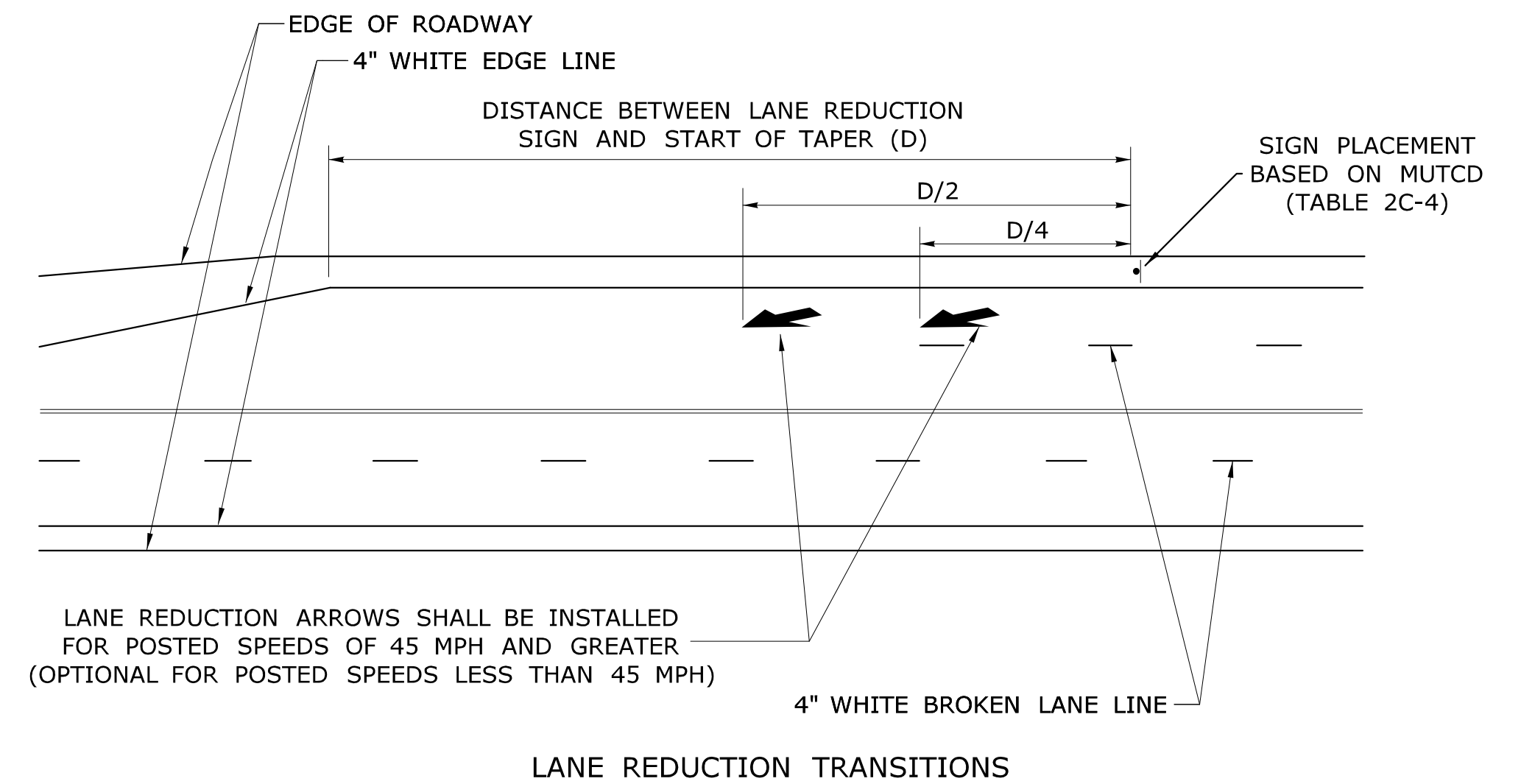
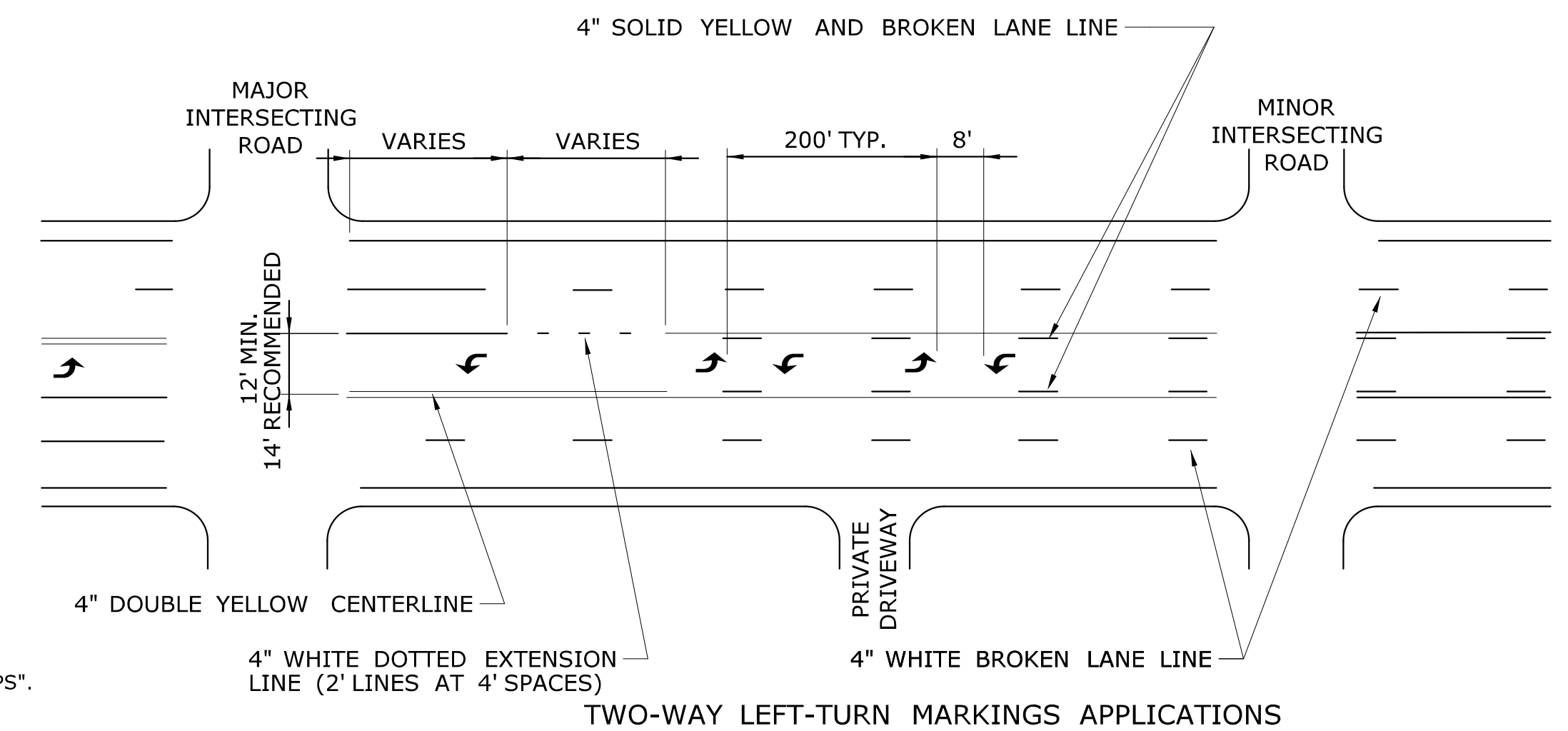
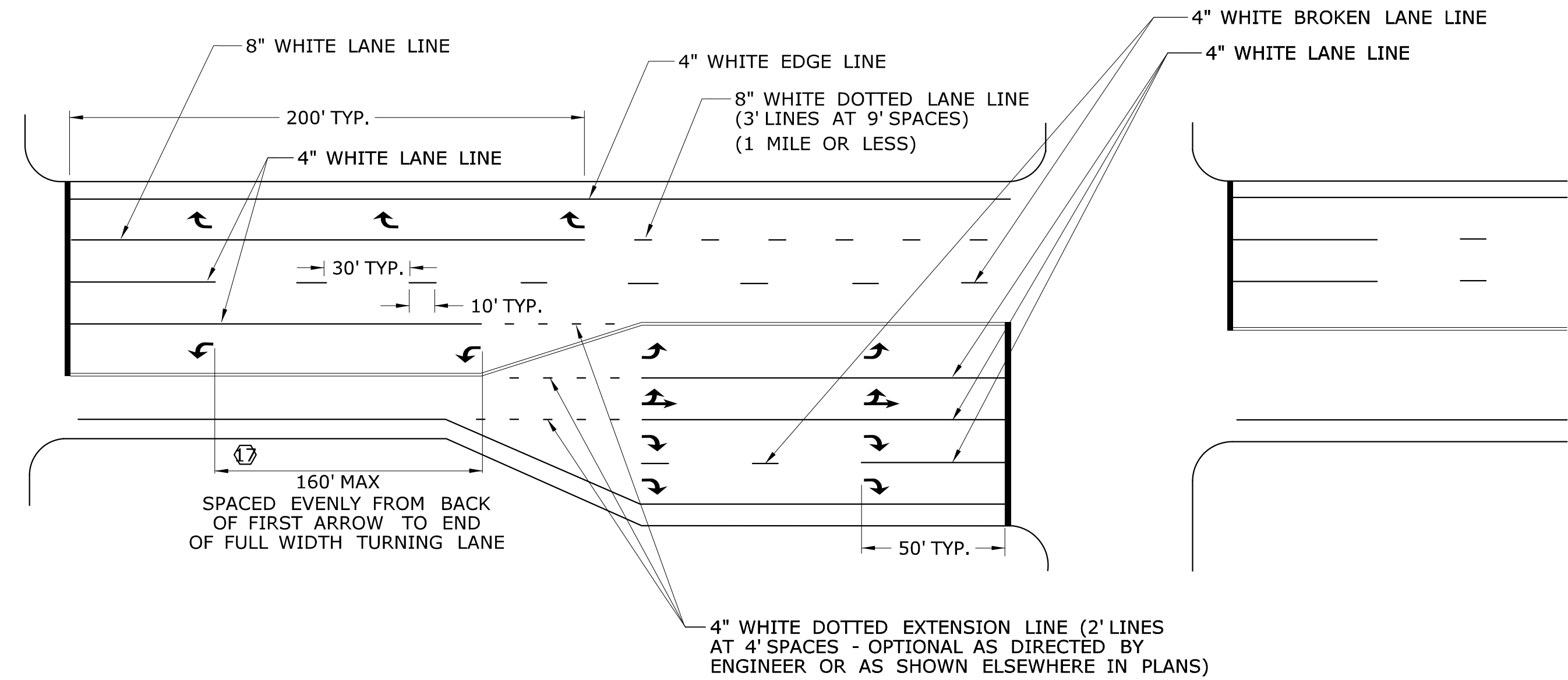
- Overall width:  $6\frac{1}{4}"$
- Distance from left edge to center hole:  $5"$
- Distance from center hole to right edge:  $5"$
- Distance from bottom edge to center hole:  $2\frac{1}{2}"$
- Overall height:  $5" TYP.$

**Component Labels:**

- SIGN PANEL
- $\frac{5}{16}" \times 1"$  HEX HEAD BOLT
- $\frac{3}{8}"$  DIA. HOLE
- $\frac{5}{16}"$  HEX HEAD BOLT
- NYLON WASHER
- $1\frac{1}{32}"$  I.D.  $\times$   $\frac{5}{8}"$  O.D.  $\times$   $\frac{1}{32}"$  THICK
- RADI SHALL BE AS SMALL AS PRACTICAL
- .080 THICK ALUMINUM
- STAINLESS STEEL WASHER
- $1\frac{1}{32}"$  I.D.  $\times$   $1\frac{1}{16}"$  O.D.  $\times$   $\frac{1}{16}"$  THICK
- SELF LOCKING NUT WITH PLASTIC OR FIBER INSERT.
- SELF LOCKING NUT WITH PLASTIC OR FIBER INSERT.
- STAINLESS STEEL WASHER
- $1\frac{1}{32}"$  I.D.  $\times$   $1\frac{1}{16}"$  O.D.  $\times$   $\frac{1}{16}"$  THICK
- NYLON WASHER
- $1\frac{1}{32}"$  I.D.  $\times$   $\frac{5}{8}"$  O.D.  $\times$   $\frac{1}{32}"$  THICK

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2	6-2017	SIGN POST REVISIONS.	Plotted Date: 6/6/2017	Filename: TR-1208_02_May_2017_Revision.dgn Model: TR-1208_02								
1	2-2011	MINOR REVISIONS.										
REV.	DATE	REVISION DESCRIPTION										









- NOTES:
- STOP BARS AND YIELD LINES
1. STOP BARS AND YIELD LINES SHALL BE WHITE.
  2. STOP BARS SHALL BE 12" MIN. UNLESS OTHERWISE NOTED ON PLANS.
  3. STOP BARS TO BE PLACED A MINIMUM OF 4' IN ADVANCE OF THE NEAREST EDGE OF CROSSWALK AND SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY. TO
  4. IN THE ABSENCE OF A MARKED CROSSWALK THE STOP BAR SHOULD BE PLACED 90° THE CENTERLINE OF THE ROADWAY, AT THE DESIRED STOPPING POINT AT LEAST 5' AND NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY.
  5. THE STOP SIGN SHOULD BE PLACED IN LINE WITH THE STOP BAR. HOWEVER, IF THE STOP SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO STOP, THE STOP BAR SHOULD BE PLACED AT THE STOPPING POINT.
  6. FOR STOP BARS AT RAMPS SEE DETAILS "R", "S", "T", & "U" AND NOTES ON TRAFFIC STANDARD SHEET TR-1210 07 "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS EXIT RAMPS".
  7. FOR YIELD LINE INSTALLATIONS, ONLY FULL TRIANGLES ARE TO BE INSTALLED.
- ⑧ MID-BLOCK CROSSWALKS ARE CROSSWALKS LOCATED MORE THAN 50 FEET FROM A SIGNALIZED OR UNSIGNALIZED INTERSECTION. YIELD LINES ASSOCIATED WITH MIDBLOCK CROSSWALKS SHALL BE INSTALLED AND SHOULD BE LOCATED 20 TO 50 FEET IN ADVANCE OF THE NEAREST CROSSWALK LINE OR AS DIRECTED BY THE ENGINEER.
- WHERE A YIELD LINE EXISTS ON AN APPROACH TO A CROSSWALK, THE APPROPRIATE "YIELD TO PEDESTRIANS" SIGN IS REQUIRED.
- ⑨ FOR CROSSWALKS AT UNSIGNALIZED INTERSECTIONS WITH MINOR STREET STOP CONTROL, YIELD LINES SHALL BE INSTALLED ON MULTI-LANE APPROACHES, BUT NOT SINGLE LANE APPROACHES.
10. THE YIELD SIGN SHOULD BE PLACED IN LINE WITH A YIELD LINE. HOWEVER, IF THE YIELD SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO YIELD, THE YIELD LINE SHOULD BE PLACED AT THE YIELDING POINT.


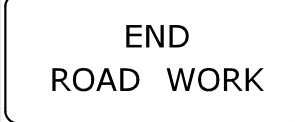





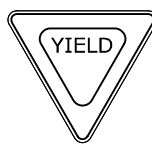

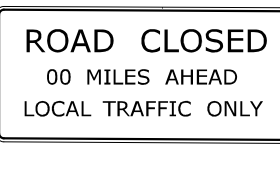

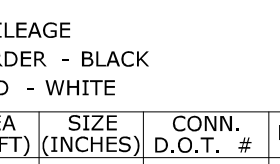


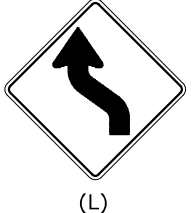
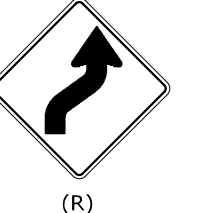
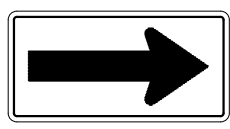

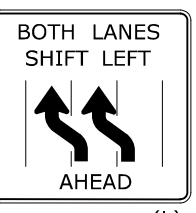


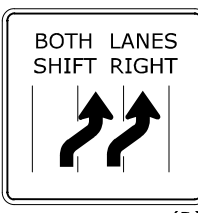
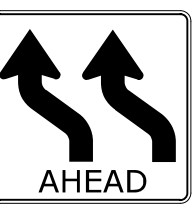

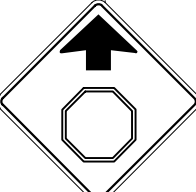
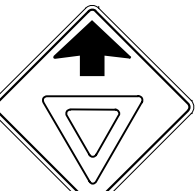
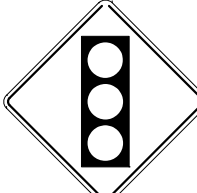




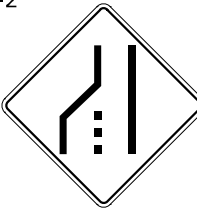
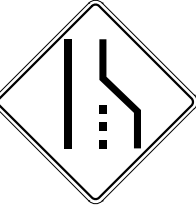
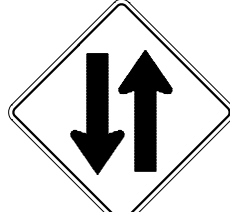
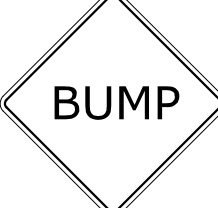
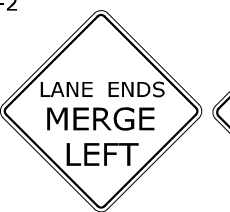
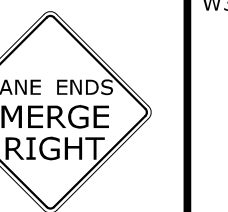




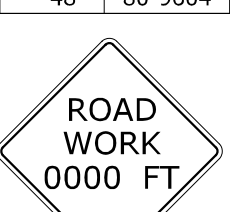
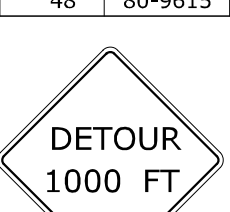



## CROSSWALKS

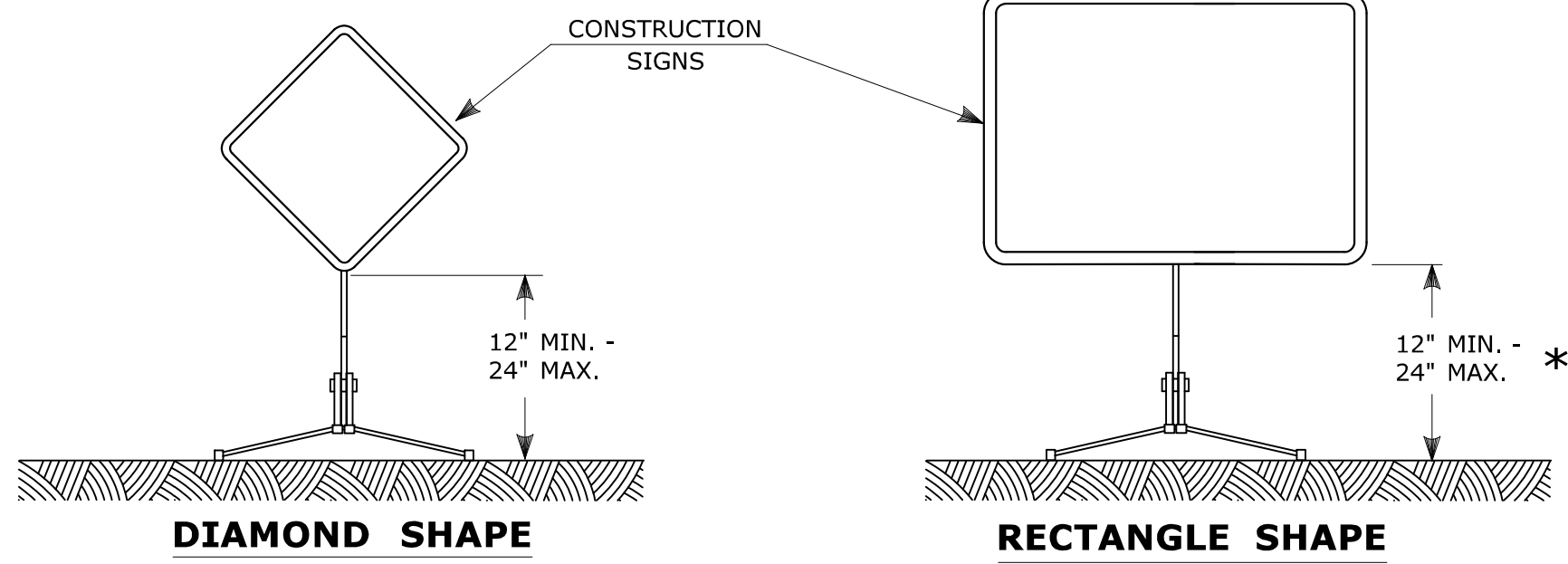
11. CROSSWALK MARKINGS SHALL BE WHITE.
12. AT LOCATIONS WHERE THE CROSSWALK IS SKEWED, BARS TO BE PARALLEL TO C AND ENDS OF BARS TO BE PARALLEL. THE LENGTH OF THE BARS WILL VARY DEPENDING ON THE ANGLE OF SKEW.
13. BARS SHOULD BE NO CLOSER THAN 1' FROM EDGE OF ROAD.
14. ONLY FULL LENGTH BARS ARE TO BE INSTALLED.
15. DECORATIVE CROSSWALKS SHALL BE BANDED FROM CURB TO CURB WITH A MINIMUM 12" WIDE WHITE TRANSVERSE LINE ALONG EACH EDGE.
16. 24" WIDE SPACE TO BE CENTERED ON YELLOW CENTERLINE.

## PAVEMENT MARKINGS FOR TURNING LANES

17. INSTALL AT LEAST TWO ARROWS PER LANE WHERE STORAGE LENGTH IS GREATER THAN 150 FEET.

			THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	NOT TO SCALE	<div><div>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</div></div>	SUBMITTED BY:	NAME/DATE/TIME:	<div>CTDOT STANDARD SHEET</div> <div>OFFICE OF ENGINEERING</div>	STANDARD SHEET TITLE:  PAVEMENT MARKINGS FOR NON FREEWAYS	STANDARD SHEET NO.:  TR-1210_08
1	8-2018	REVISED YIELD LINE SIGNAGE AND NOTES.				APPROVED BY:	NAME/DATE/TIME:			
REV. DATE		REVISION DESCRIPTION	Plotted Date: 8/10/2018			<div> Mark F. Makuch, P.E. 2018.08.17 09:10:18-04'00'</div> <div> Mark F. Carlino, P.E. 2018.08.21 07:49:18-04'00'</div>				
				Filename: TR-1210_08.DGN	Model: TR-1210_05					

E5 - SERIES				G20 - SERIES				M4 - SERIES				R1 - SERIES				R9 & R11 - SERIES				W1 - SERIES				W3 - SERIES																																																																																																																																																																																																																																																							
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FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	10.0	48X30	80-9080	2	<div>W1-4</div> <div></div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9432L</td><td>1</td></tr><tr><td>9.0</td><td>36</td><td>80-9431R</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9452L</td><td>2</td></tr><tr><td>16.0</td><td>48</td><td>80-9451R</td><td>2</td></tr></table></div> <div>W1-6</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>8.0</td><td>48X24</td><td>80-9424</td><td>2</td></tr><tr><td>12.5</td><td>60X30</td><td>80-9423</td><td>2</td></tr></table></div> <div>W1-8</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. 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FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16-S	10.0	48X30	80-1619	2	<div>M4-10</div> <div></div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>6.0</td><td>48X18</td><td>80-9701R</td><td>2</td></tr><tr><td>6.0</td><td>48X18</td><td>80-9702L</td><td>2</td></tr></table></div> <div>R4-7</div> <div></div> <div>COPY &amp; BORDER - BLACK BACKGROUND - WHITE</div> <table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>5.0</td><td>24X30</td><td>31-1526</td><td>1</td></tr></table> <div>R4-9</div> <div></div> <div>COPY &amp; BORDER - BLACK BACKGROUND - WHITE</div> <table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>5.0</td><td>24X30</td><td>31-1517</td><td>1</td></tr><tr><td>12.0</td><td>36X48</td><td>31-1518</td><td>1</td></tr><tr><td>20.0</td><td>48X60</td><td>31-1519</td><td>2</td></tr></table>				AREA (SQ. 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D.O.T. #</th><th>POSTS</th></tr><tr><td>4.0</td><td>24</td><td>80-9569</td><td>1</td></tr><tr><td>6.25</td><td>30</td><td>80-9567</td><td>1</td></tr></table> <div>W13-5</div> <div></div> <div>VARIABLE SPEED</div> <table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9506</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9508</td><td>2</td></tr><tr><td>9.0</td><td>36</td><td>80-9520</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9521</td><td>2</td></tr></table> <div>W16-15P</div> <div></div> <div>COPY &amp; BORDER - BLACK BACKGROUND - ORANGE</div> <table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>2.0</td><td>24X12</td><td>80-9049</td><td></td></tr></table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	4.0	24	80-9569	1	6.25	30	80-9567	1	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9506	1	16.0	48	80-9508	2	9.0	36	80-9520	1	16.0	48	80-9521	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	2.0	24X12	80-9049		<div>W20-1</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>6.25</td><td>30</td><td>80-9602</td><td>1</td></tr><tr><td>9.0</td><td>36</td><td>80-9603</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9604</td><td>2</td></tr></table></div> <div>W20-1</div> <div></div> <div>VARIABLE DISTANCE</div> <table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9614</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9615</td><td>2</td></tr></table> <div>W20-2</div> <div></div> <div>VARIABLE MILEAGE</div> <table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. 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FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>2.0</td><td>24X12</td><td>80-9870</td><td></td></tr><tr><td>3.75</td><td>30X18</td><td>80-9871</td><td></td></tr><tr><td>4.5</td><td>36X18</td><td>80-9873</td><td></td></tr></table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9803	1	16.0	48	80-9804	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	32.0	96X48	80-9815	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	2.0	24X12	80-9870		3.75	30X18	80-9871		4.5	36X18	80-9873		<div>W21-6&lt;/</div>											
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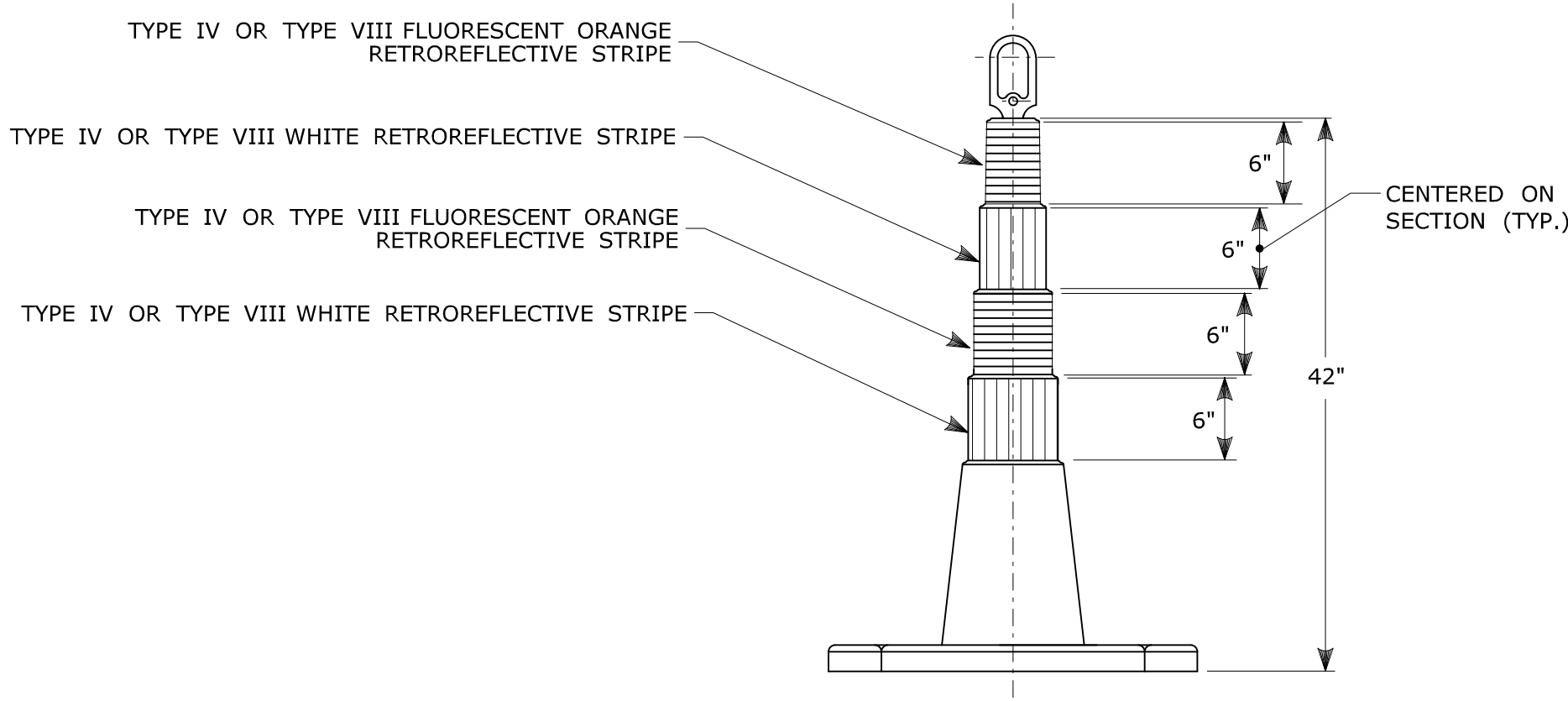


### PORTABLE CONSTRUCTION SIGNS

NOTES FOR PORTABLE SIGN SUPPORTS:

- SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" AND A MAXIMUM OF 24". SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- PORTABLE SIGN SUPPORTS SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES.
- PORTABLE CONSTRUCTION SIGN SUPPORTS SHOULD NOT BE USED FOR DURATION OF MORE THAN 3 DAYS EXCEPT FOR R9-8 THROUGH R9-11a SERIES, R11 SERIES, W1-6 THROUGH W1-8 SERIES, M4-10, AND E5-1. SEE STANDARD SHEET TR-1220.01 - "SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS" FOR SIGN DETAILS.

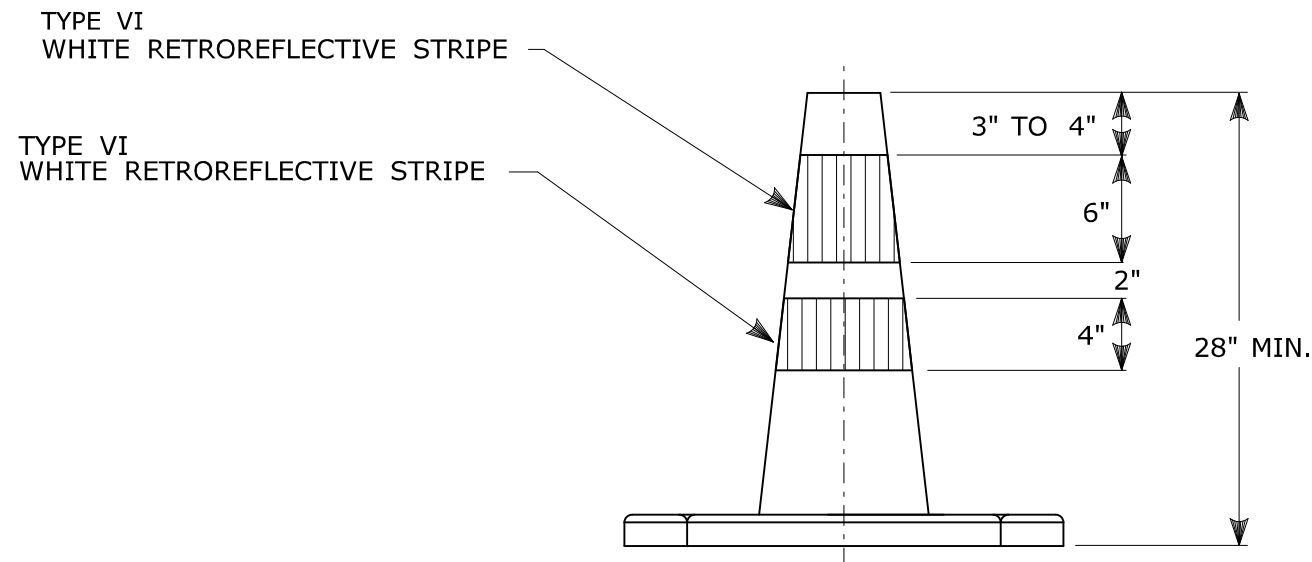
★ FOR E5-1 (EXIT SIGNS) USE MIN 48".



### 42" TRAFFIC CONE

NOTES:

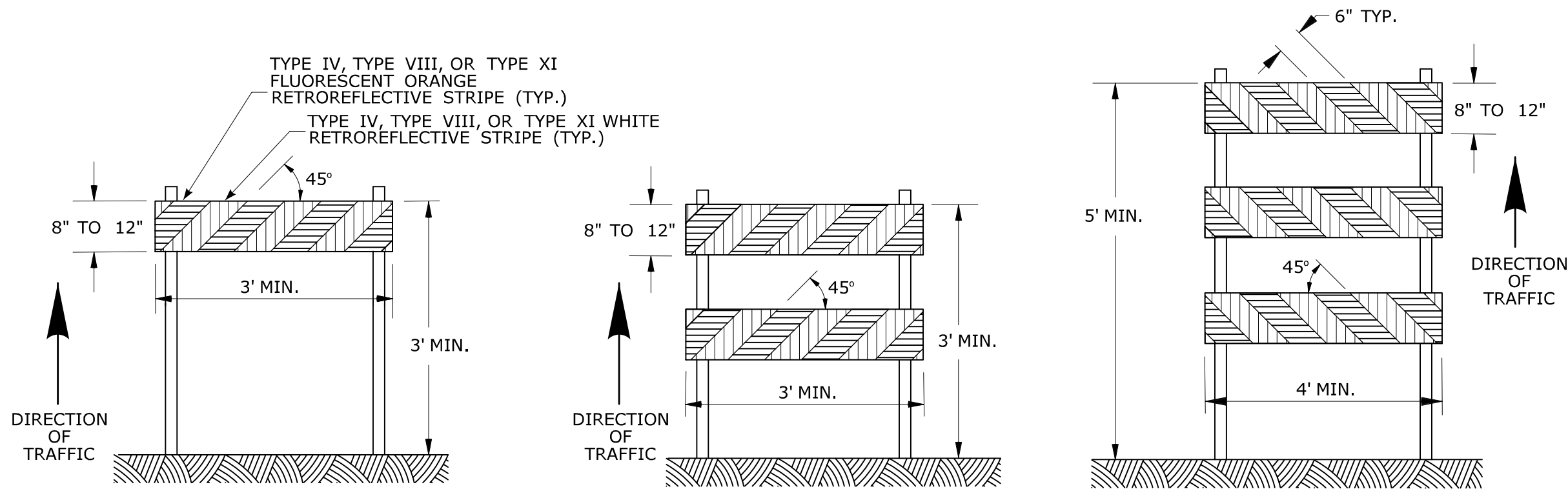
- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



### TRAFFIC CONE

NOTES:

- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- TRAFFIC CONES NOT USED AT NIGHT MAY UTILIZE TYPE III SHEETING.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



### TYPE I BARRICADE

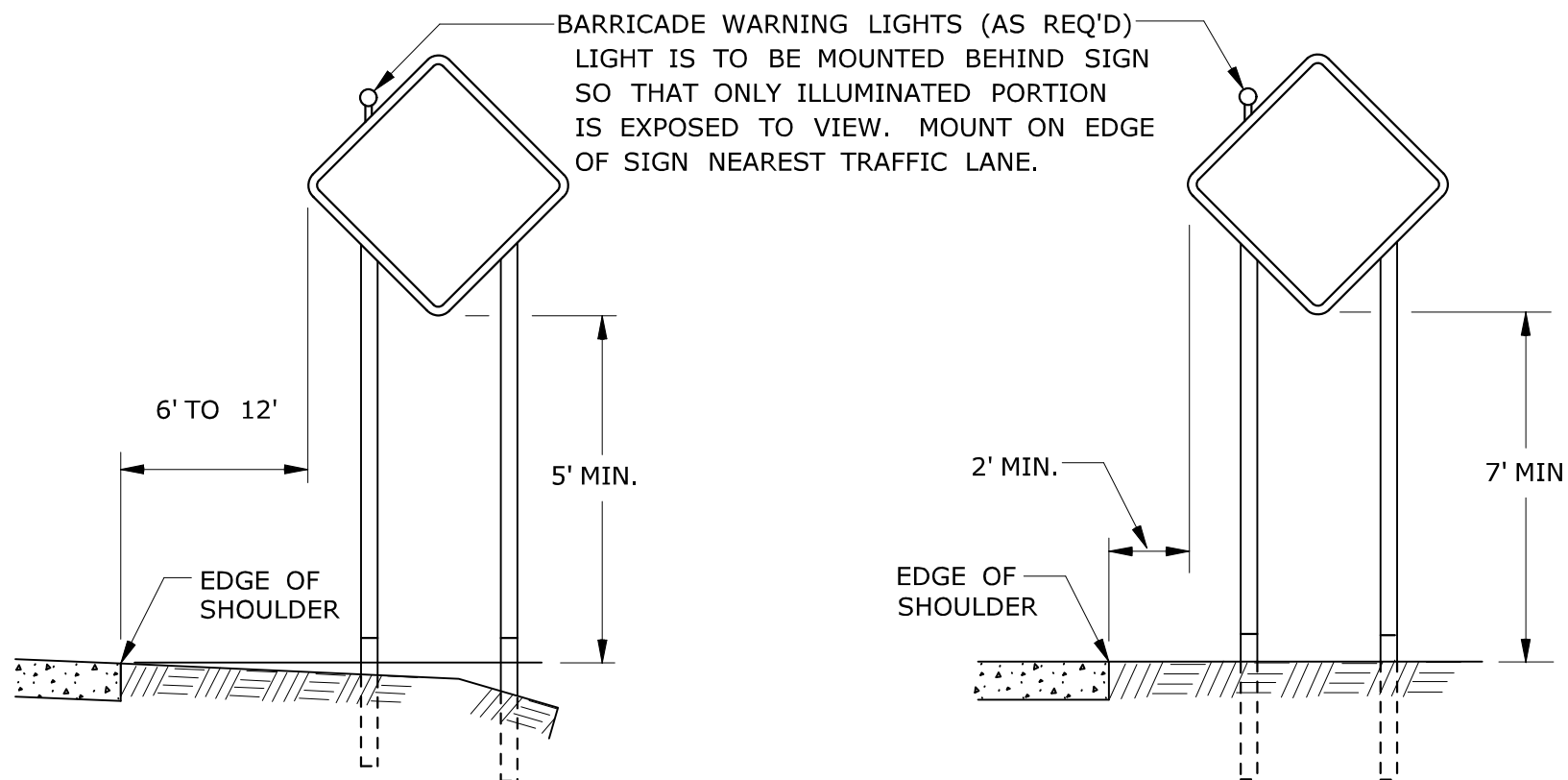
### TYPE II BARRICADE

### TYPE III BARRICADE

### CONSTRUCTION BARRICADES

NOTES:

- CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH AND THE LATEST EDITION OF THE MUTCD.
- MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE FLUORESCENT ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES SHALL BE USED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
- SIGNS MAY ONLY BE INSTALLED ON TYPE III BARRICADES AND SHALL BE PLACED SO AS TO COVER NO MORE THAN ONE BARRICADE RAIL.



### RURAL AREA

### URBAN AREA

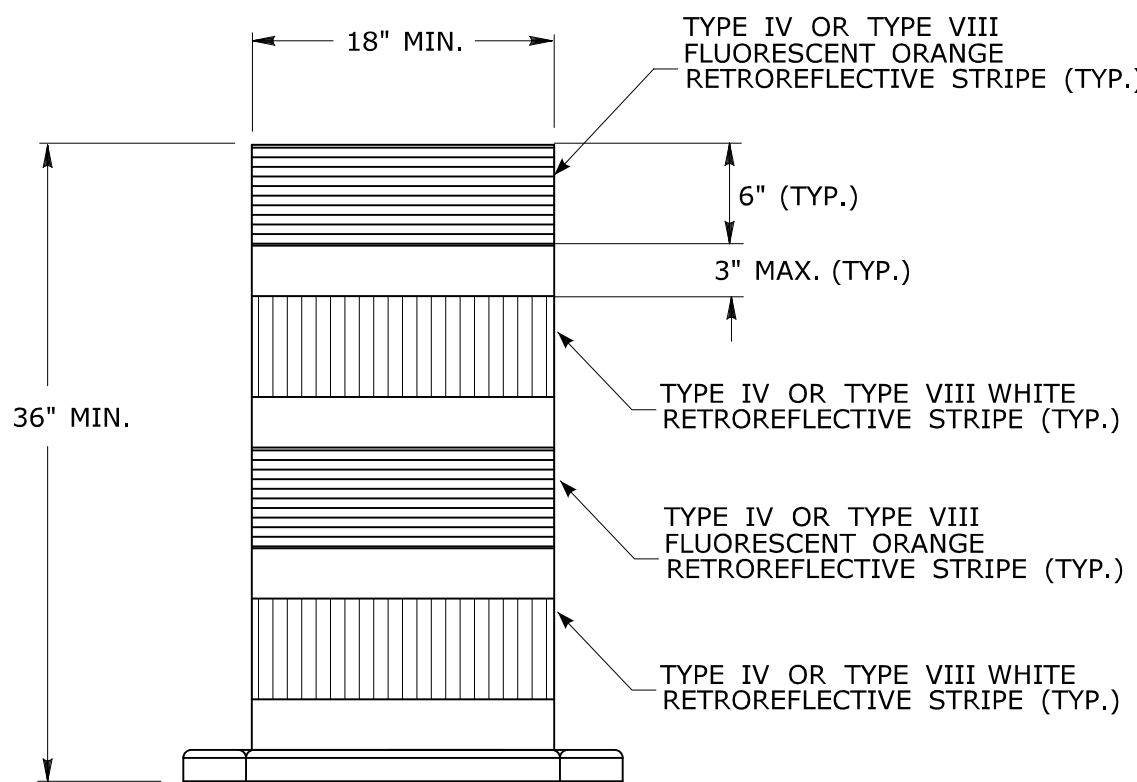
### PLACEMENT OF CONSTRUCTION SIGNS TYPICAL LONG TERM INSTALLATION

NOTES:

SUPPORTS SHALL BE METAL SIGN POSTS AND HAVE BREAK-AWAY FEATURES.

REFER TO STANDARD SHEETS:

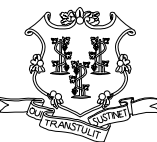

- TR-1208.01 - "SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS."  
TR-1208.02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."



### TRAFFIC DRUM FRONT VIEW

NOTES:

- TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

			THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		 <b>STATE OF CONNECTICUT</b> <b>DEPARTMENT OF TRANSPORTATION</b>		SUBMITTED BY: <i>Mark F. Makuch</i> NAME/DATE/TIME: Mark F. Makuch, P.E. 2018.08.17 09:12:43-04'00'	APPROVED BY: <i>Mark F. Carlini</i> NAME/DATE/TIME: Mark F. Carlini, P.E. 2018.08.21 07:49:51-04'00'	<b>CTDOT</b> <b>STANDARD SHEET</b>	STANDARD SHEET TITLE: <b>CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES</b>	STANDARD SHEET NO.: <b>TR-1220_02</b>
3	8-2018	UPDATED SHEETING TYPE AND COLOR.									
2	8-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.									
1	2-2011	MINOR REVISIONS.									
REV.	DATE	REVISION DESCRIPTION	Plotted Date: 8/10/2018	NOT TO SCALE	Filename: TR-1220_02_3.2018.dgn	Model: TR-1220_02					