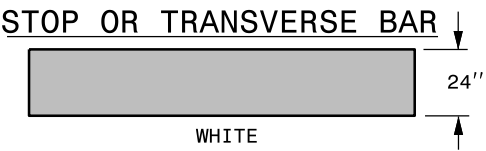
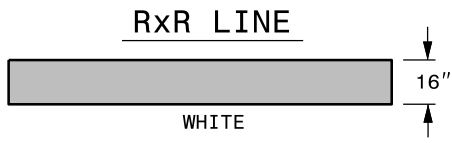
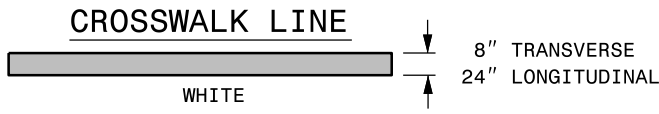
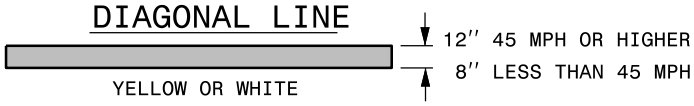
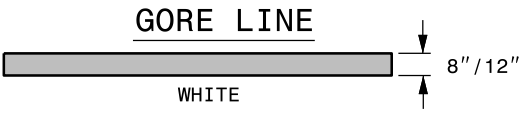
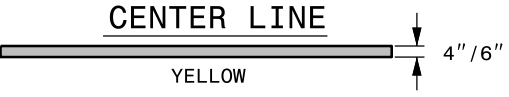
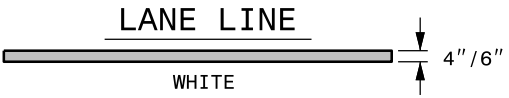
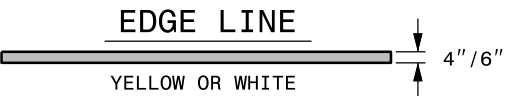
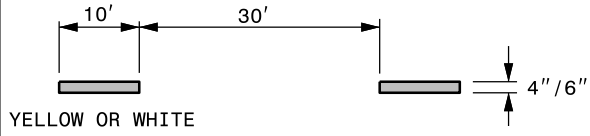


CONTINUOUS LINES



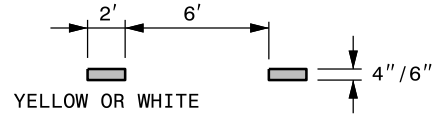
10'-30'/SP SKIP LINE

UNLESS OTHERWISE SHOWN, USE 10'-30'/SP SKIPS FOR SKIP LANE LINES AND SKIP CENTER LINES.



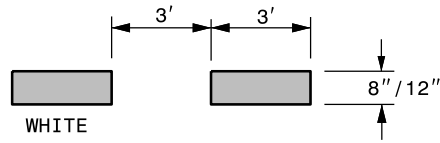
2'-6'/SP MINI-SKIP LINE

UNLESS OTHERWISE SHOWN, USE 2'-6'/SP MINI-SKIPS FOR LANE LINE EXTENSIONS THROUGH INTERSECTIONS, EDGE LINE EXTENSIONS THROUGH INTERSECTIONS AND MINI-SKIPS USED FOR BICYCLE LANE LINES.



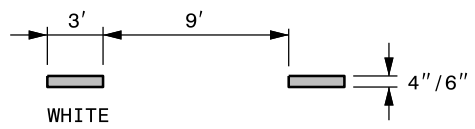
3'-3'/SP MINI-SKIP LINE

UNLESS OTHERWISE SHOWN, USE 3'-3'/SP MINI-SKIPS FOR THE WHITE EDGE LINE EXTENSIONS AT ROUNDABOUTS.



3'-9'/SP MINI-SKIP LINE

UNLESS OTHERWISE SHOWN, USE 3'-9'/SP MINI-SKIPS FOR MINI-SKIP LANE LINES AND LINE EXTENSIONS THROUGH TAPERS.



GENERAL NOTES:

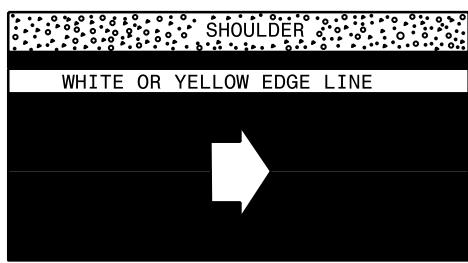
- 1- USE 6" LANE, EDGE, AND CENTER LINES ON ALL FULL CONTROL OF ACCESS FACILITIES AND OTHER ROUTES AS DIRECTED BY THE ENGINEER.
- 2- LANE LINES INDICATED AS "WIDE" ON THE ROADWAY STANDARD DRAWINGS SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.
- 3- GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.

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ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
LINE TYPES AND OFFSETS

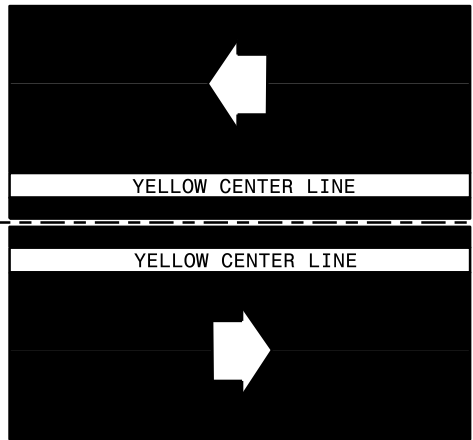
EDGE LINE OFFSET DETAIL



2" MAX., REFER ALSO TO TABLE 1
E.O.T.

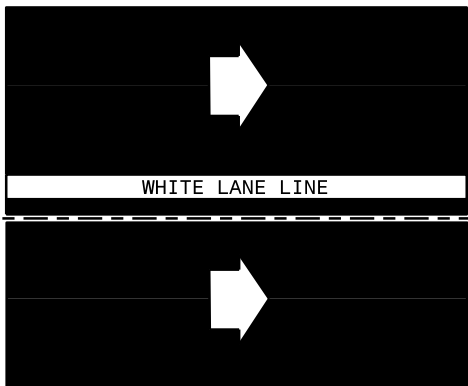
TABLE 1		
EDGE LINE OFFSETS FOR 2-LANE, 2-WAY ROADWAYS WITH UN-PAVED SHOULDERS		
WIDTH (W) OF TRAVEL PAVEMENT	MAX. EDGE LINE OFFSET FROM E.O.T.	MINIMUM LANE WIDTH (W)
16' - 18'	2"	8' - 9'
19'	4"	9'
20'	6"	9.5'
21'	8"	10'
22'	10"	10'
23'	10"	10.5'
24'	1'	11'
26'	2'	11'
28'	2'	12'
30'	3'	12'
32'	4'	12'

CENTER LINE OFFSET DETAIL



3" 3" 6"

LANE LINE OFFSET DETAIL



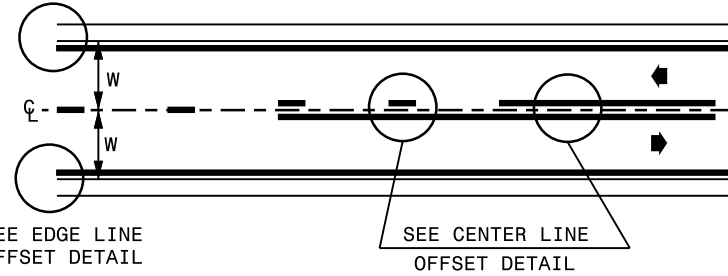
2" TOWARDS LEFT SIDE OF TRAVELWAY

LEGEND

- W = WIDTH OF TRAVEL LANE
- E.O.T. = EDGE OF TRAVEL
- ◄ DIRECTION OF TRAFFIC FLOW
- DIRECTION OF TRAFFIC FLOW

SEE EDGE LINE OFFSET DETAIL

TWO-WAY UNDIVIDED ROADWAY

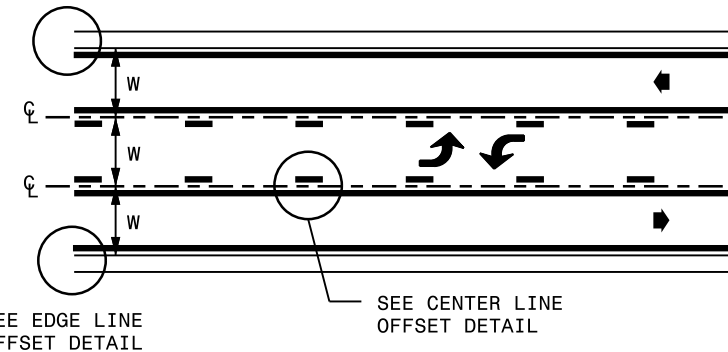


SEE EDGE LINE OFFSET DETAIL

SEE CENTER LINE OFFSET DETAIL

SEE EDGE LINE OFFSET DETAIL

TWO-WAY UNDIVIDED ROADWAY WITH TWO-WAY LEFT TURN LANE

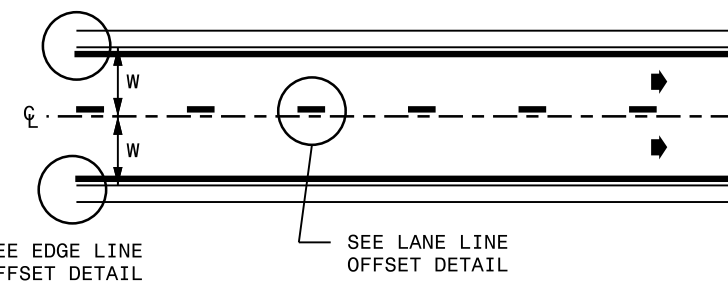


SEE EDGE LINE OFFSET DETAIL

SEE CENTER LINE OFFSET DETAIL

SEE EDGE LINE OFFSET DETAIL

MULTI-LANE ROADWAY



SEE EDGE LINE OFFSET DETAIL

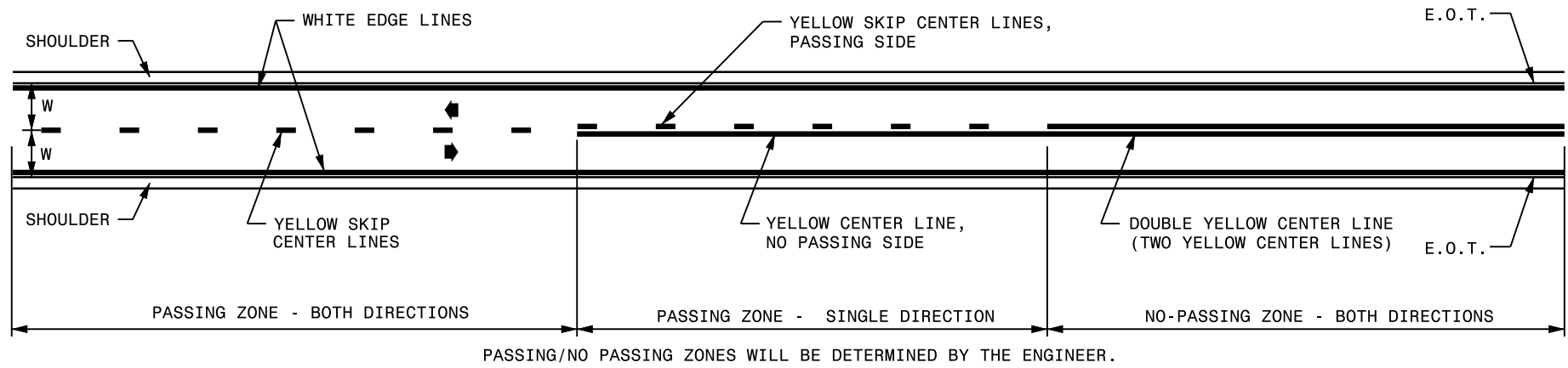
SEE LANE LINE OFFSET DETAIL

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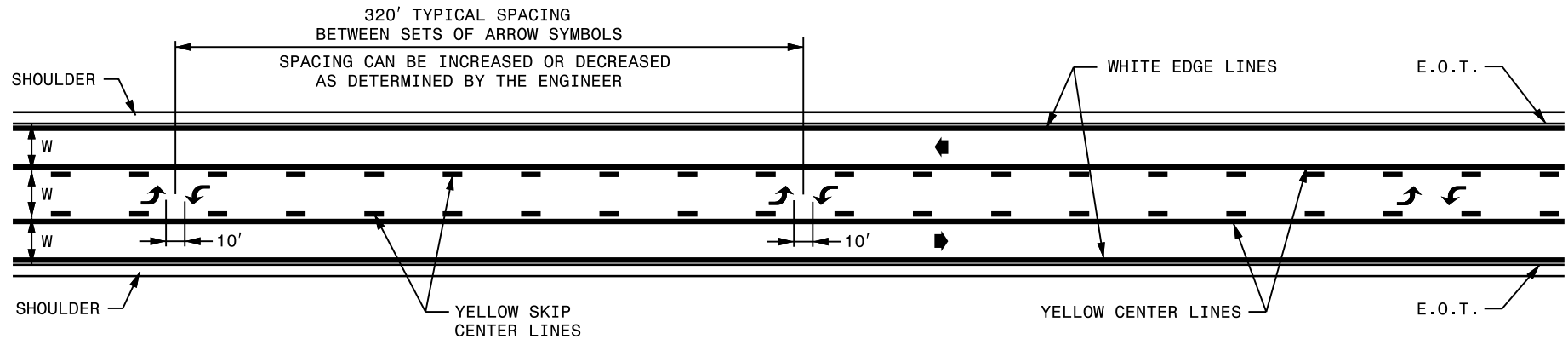
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ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
LINE TYPES AND OFFSETS

TWO-LANE, TWO-WAY ROADWAY



TWO-LANE, TWO-WAY ROADWAY WITH TWO-WAY LEFT TURN LANE



GENERAL NOTES:

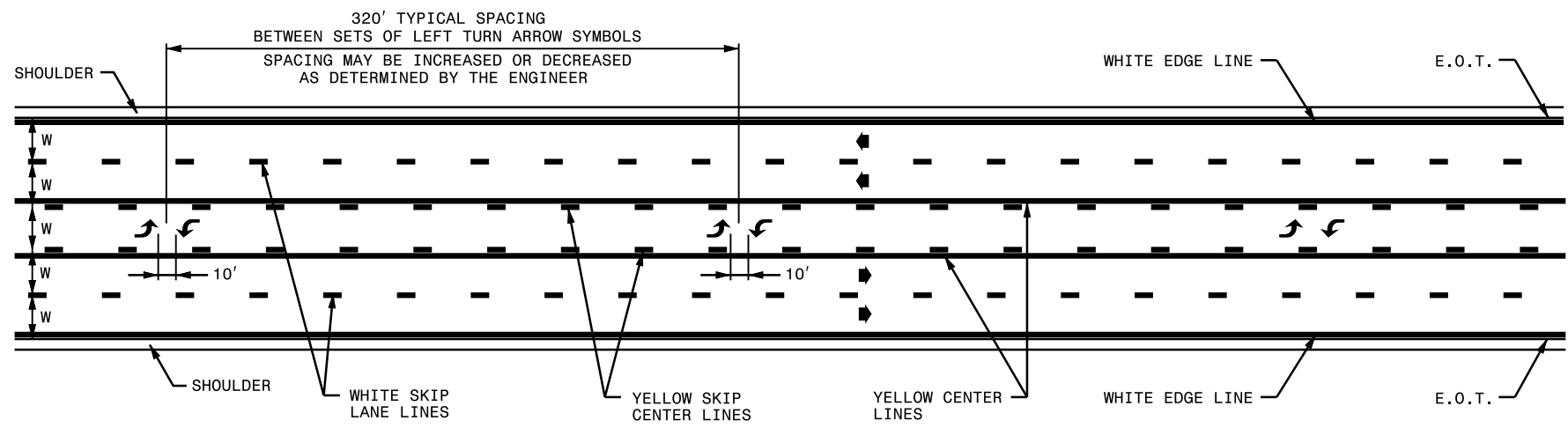
- 1- EDGE LINES ARE NOT REQUIRED ALONG CURB AND GUTTER LOCATIONS.
- 2- CONTINUE EDGE LINES THROUGH MINOR DRIVEWAYS. DO NOT CONTINUE EDGE LINES AT INTERSECTIONS AND MAJOR DRIVEWAYS, SEE ROADWAY STANDARD DRAWING 1205.05 FOR ADDITIONAL GUIDANCE.
- 3- REFER TO ROADWAY STANDARD DRAWINGS 1205.01 AND 1205.08 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

LEGEND	
W	= WIDTH OF TRAVEL LANE
E.O.T.	= EDGE OF TRAVEL
	DIRECTION OF TRAFFIC FLOW
	PAVEMENT MARKING SYMBOLS

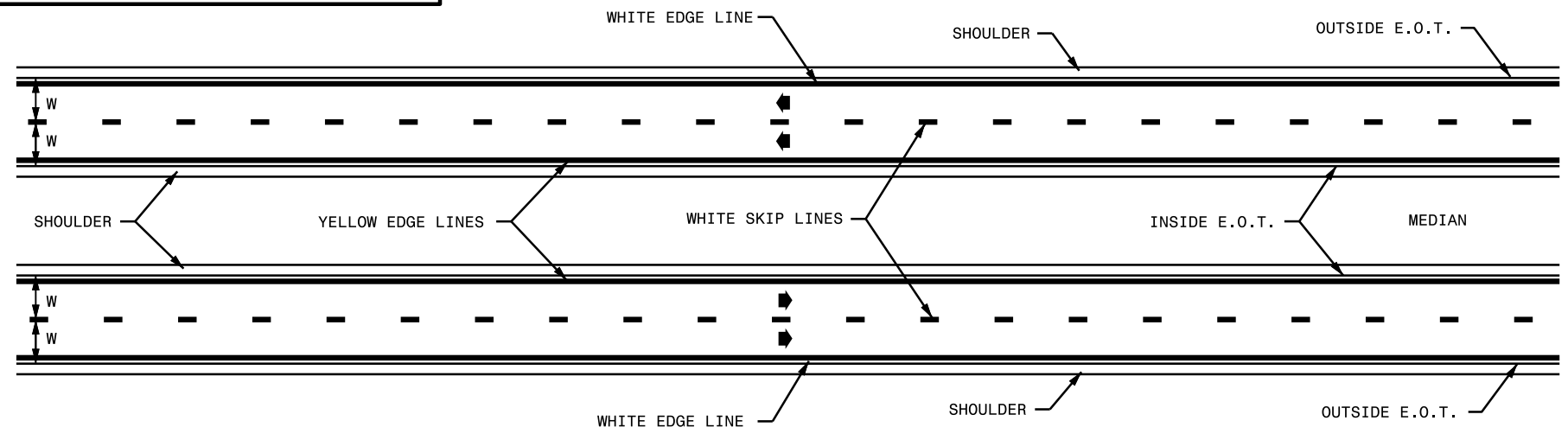
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ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
 TWO-LANE AND MULTI-LANE ROADWAYS

UNDIVIDED MULTI-LANE ROADWAY WITH TWO-WAY LEFT TURN LANE



DIVIDED FOUR-LANE ROADWAY



GENERAL NOTES:

- 1- EDGE LINES ARE NOT REQUIRED ALONG CURB AND GUTTER LOCATIONS.
- 2- CONTINUE EDGE LINES THROUGH MINOR DRIVEWAYS. DO NOT CONTINUE EDGE LINES AT INTERSECTIONS AND MAJOR DRIVEWAYS, SEE ROADWAY STANDARD DRAWING 1205.05 FOR ADDITIONAL GUIDANCE.
- 3- REFER TO ROADWAY STANDARD DRAWINGS 1205.01 AND 1205.08 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

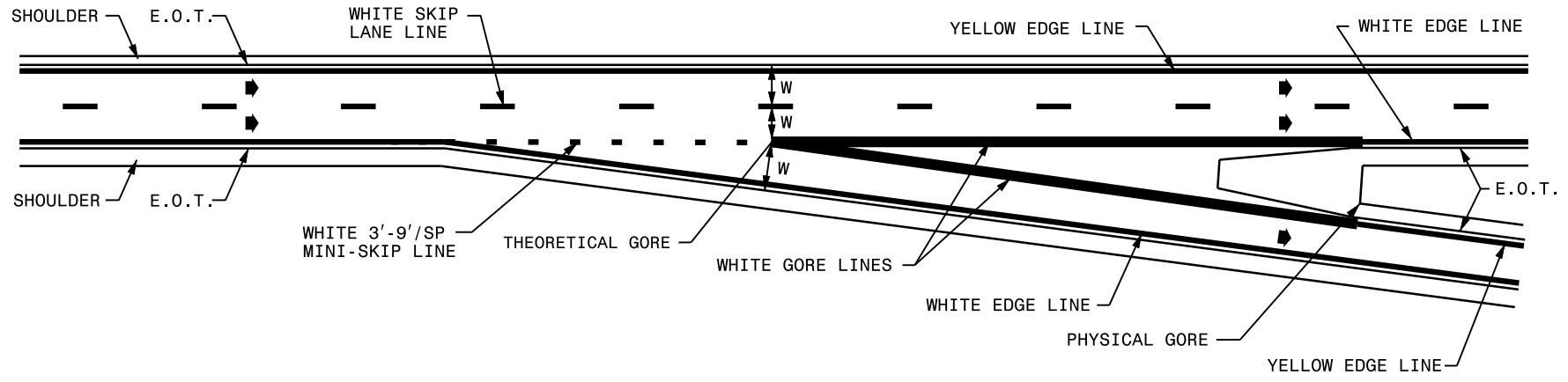
LEGEND	
W	W = WIDTH OF TRAVEL LANE
E.O.T.	E.O.T. = EDGE OF TRAVEL
➡	DIRECTION OF TRAFFIC FLOW
↩	PAVEMENT MARKING SYMBOLS

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ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
TWO-LANE AND MULTI-LANE ROADWAYS

TAPERED DECELERATION LANE



GENERAL NOTES:

- 1- LINE WIDTH ON ENTRANCE AND EXIT RAMP SHALL MATCH THE LINE WIDTH ON THE MAINLINE.
- 2- GORE LINE MARKINGS TERMINATE AT THE PHYSICAL GORE.
- 3- GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.
- 4- REFER TO ROADWAY STANDARD DRAWING 1205.01 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

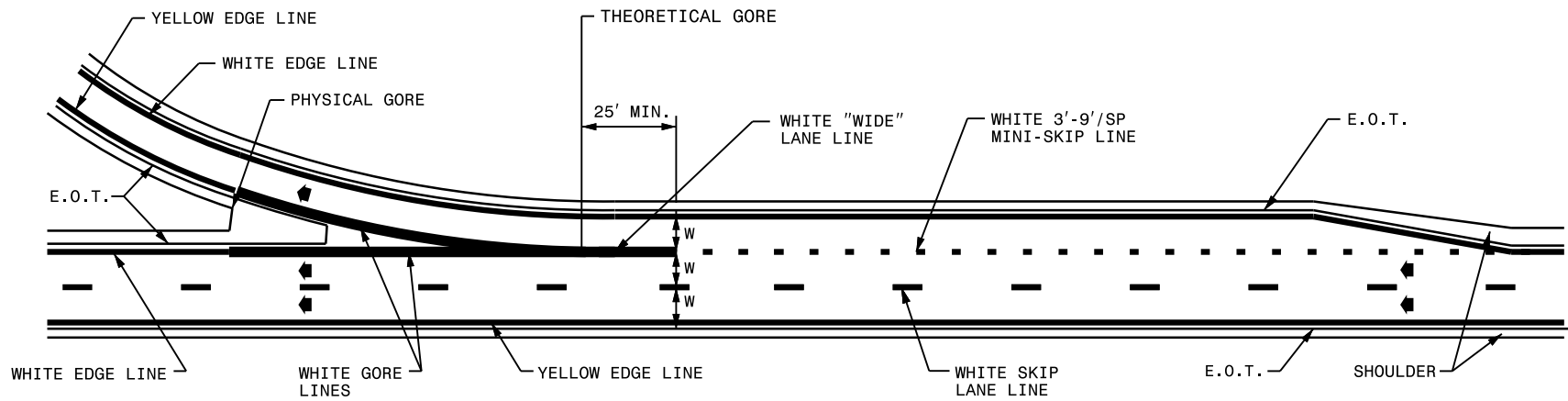
LEGEND	
W	= WIDTH OF TRAVEL LANE
E.O.T.	= EDGE OF TRAVEL
↔	DIRECTION OF TRAFFIC FLOW
➔	DIRECTION OF TRAFFIC FLOW

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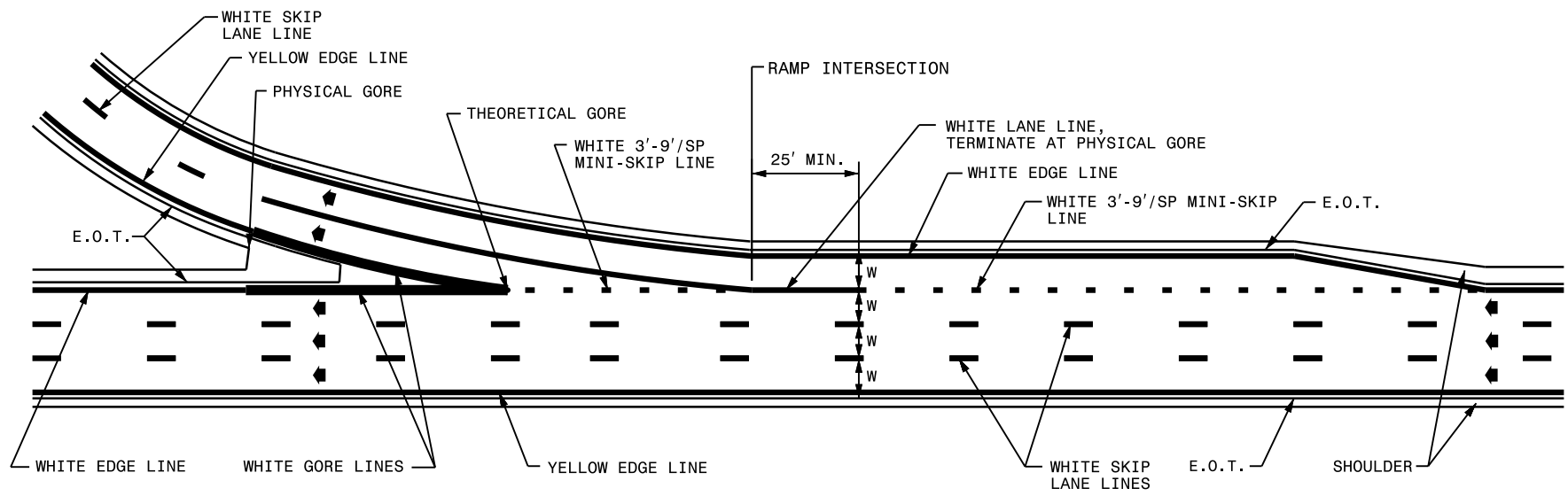
1-18

ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
 EXIT AND ENTRANCE RAMP

PARALLEL DECELERATION LANE



PARALLEL DECELERATION LANE AT A MULTI-LANE EXIT



GENERAL NOTES:

- 1- LINE WIDTH ON ENTRANCE AND EXIT RAMP SHALL MATCH THE LINE WIDTH ON THE MAINLINE.
- 2- GORE LINE MARKINGS TERMINATE AT THE PHYSICAL GORE.
- 3- LANE LINES INDICATED AS "WIDE" SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.
- 4- GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.
- 5- REFER TO ROADWAY STANDARD DRAWING 1205.01 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

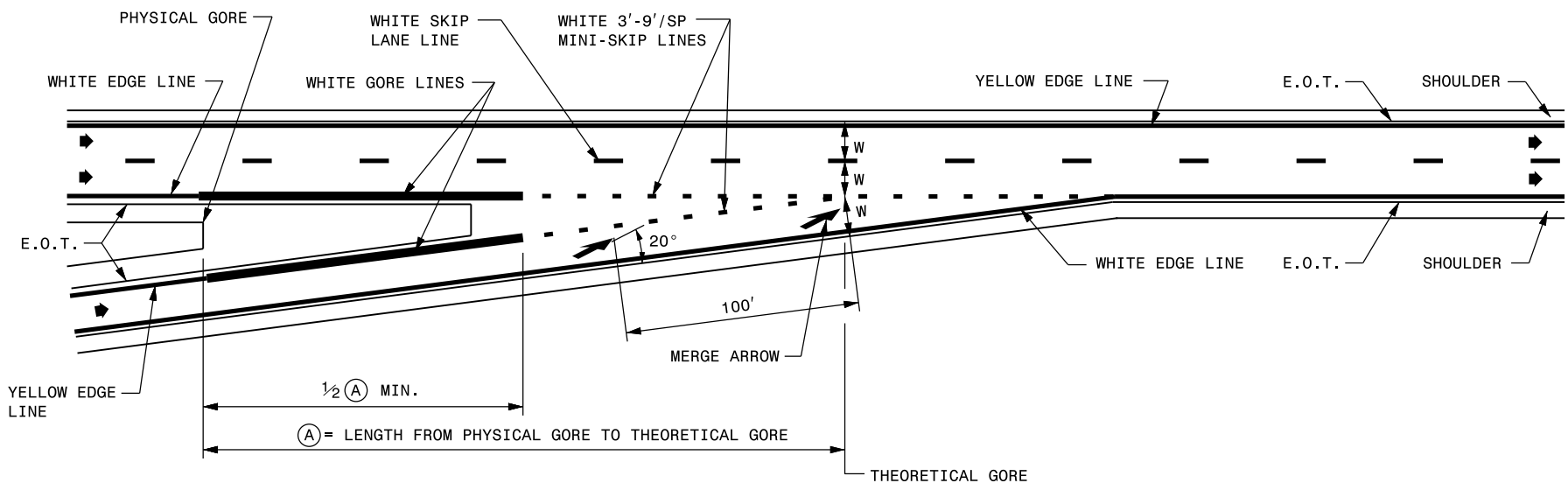
LEGEND	
W	= WIDTH OF TRAVEL LANE
E.O.T.	= EDGE OF TRAVEL
◄	DIRECTION OF TRAFFIC FLOW
◆	DIRECTION OF TRAFFIC FLOW

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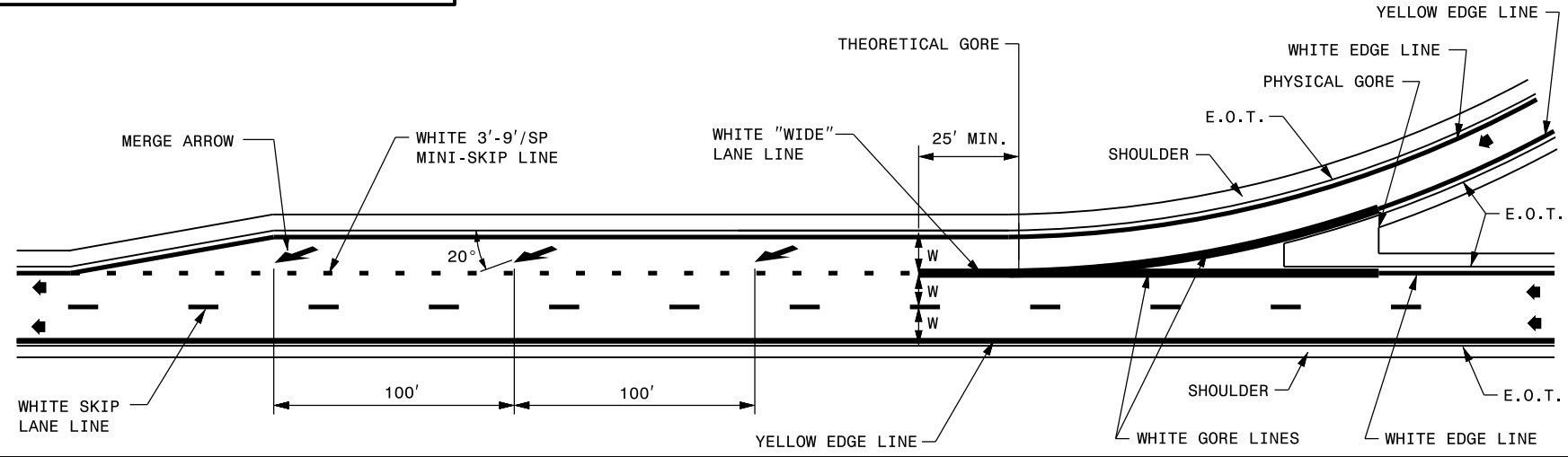
1-18

ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
 EXIT AND ENTRANCE RAMP

TAPERED ACCELERATION LANE



PARALLEL ACCELERATION LANE



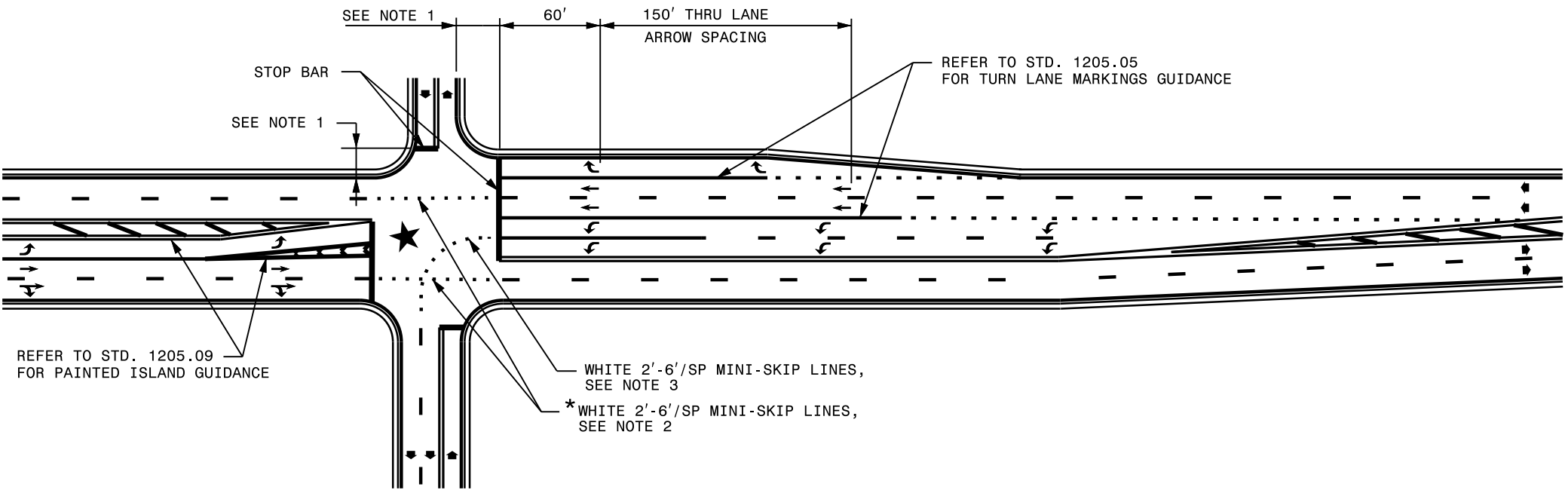
GENERAL NOTES:

- 1- LINE WIDTH ON ENTRANCE AND EXIT RAMP SHALL MATCH THE LINE WIDTH ON THE MAINLINE.
- 2- GORE LINE MARKINGS TERMINATE AT THE PHYSICAL GORE.
- 3- LANE LINES INDICATED AS "WIDE" SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.
- 4- GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.
- 5- REFER TO ROADWAY STANDARD DRAWINGS 1205.01 AND 1205.08 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

LEGEND	
W	= WIDTH OF TRAVEL LANE
E.O.T.	= EDGE OF TRAVEL
◆	DIRECTION OF TRAFFIC FLOW
▬	PAVEMENT MARKING SYMBOLS

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SIGNALIZED MULTI-LANE ROADWAY WITH TURN BAYS



REFER TO STD. 1205.09
FOR PAINTED ISLAND GUIDANCE

WHITE 2'-6"/SP MINI-SKIP LINES,
SEE NOTE 3

* WHITE 2'-6"/SP MINI-SKIP LINES,
SEE NOTE 2

REFER TO STD. 1205.05
FOR TURN LANE MARKINGS GUIDANCE

GENERAL NOTES:

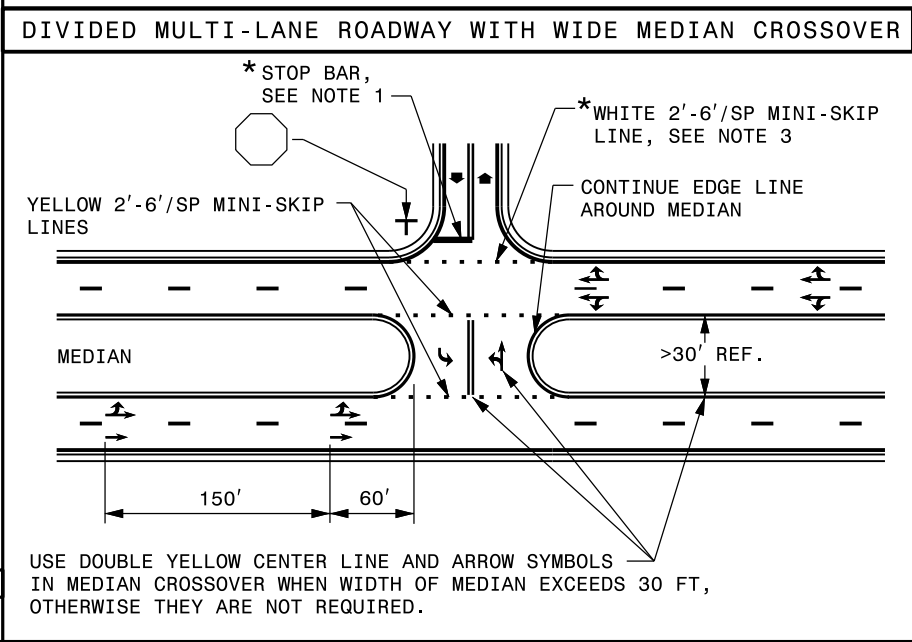
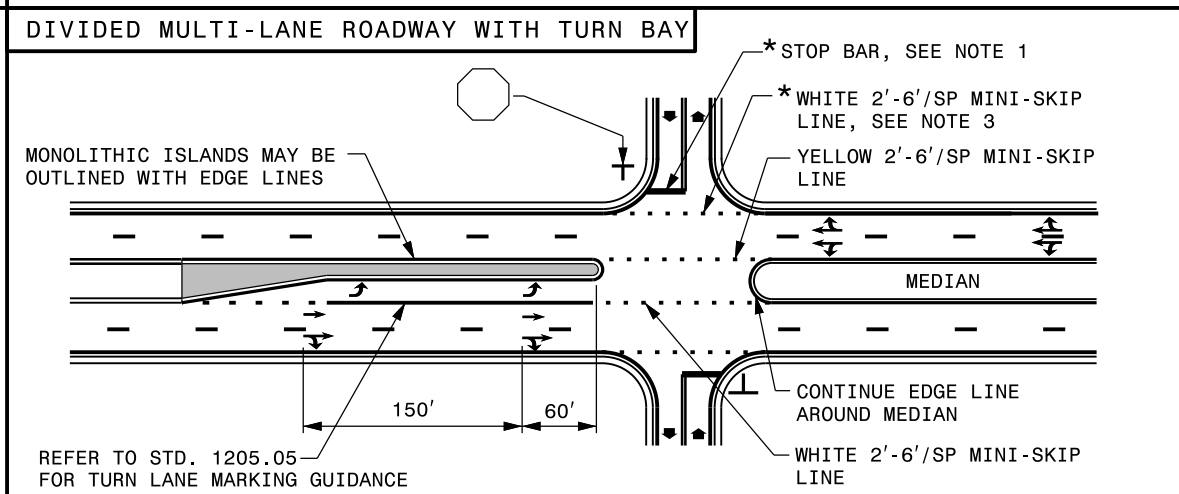
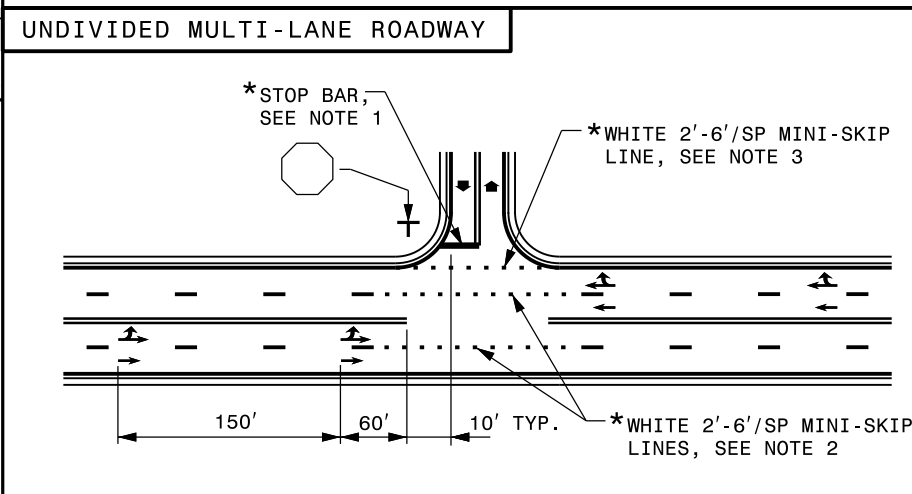
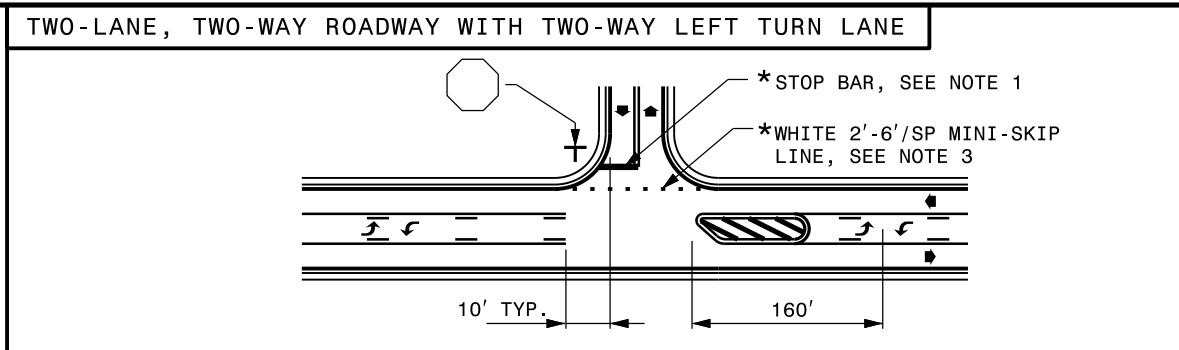
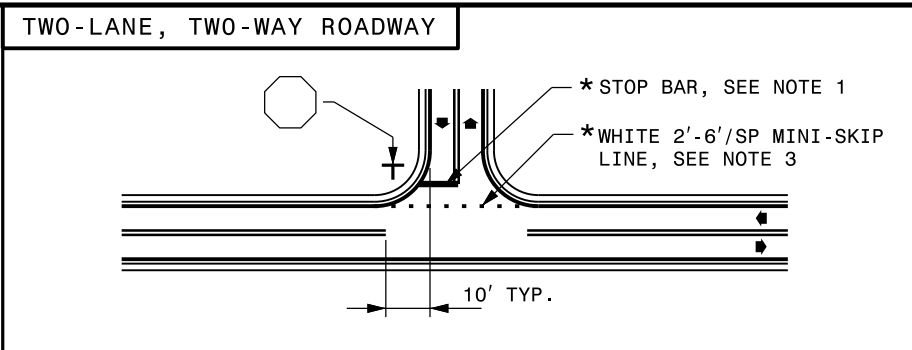
- 1- REFER TO THE PAVEMENT MARKING PLAN FOR STOP BAR LOCATIONS FOR SIGNALIZED INTERSECTIONS. IF A PAVEMENT MARKING PLAN IS NOT PROVIDED, CONTACT THE SIGNAL DESIGN SECTION FOR THE STOP BAR LOCATIONS OR AS DIRECTED BY THE ENGINEER.
- 2- MINI-SKIP LANE LINE EXTENSIONS SHOULD BE USED AT INTERSECTIONS THAT HAVE REDUCED VISIBILITY CONDITIONS SUCH AS OFFSET, SKEWED, OR CURVED ROADWAYS.
- 3- MINI-SKIP LANE LINE EXTENSIONS SHALL BE USED WHERE MULTIPLE TURN LANES ARE USED.
- 4- REFER TO ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.05, 1205.08 AND 1205.09 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

LEGEND	
➤	DIRECTION OF TRAFFIC FLOW
↩	PAVEMENT MARKING SYMBOLS
*	OPTIONAL

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ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
 INTERSECTIONS



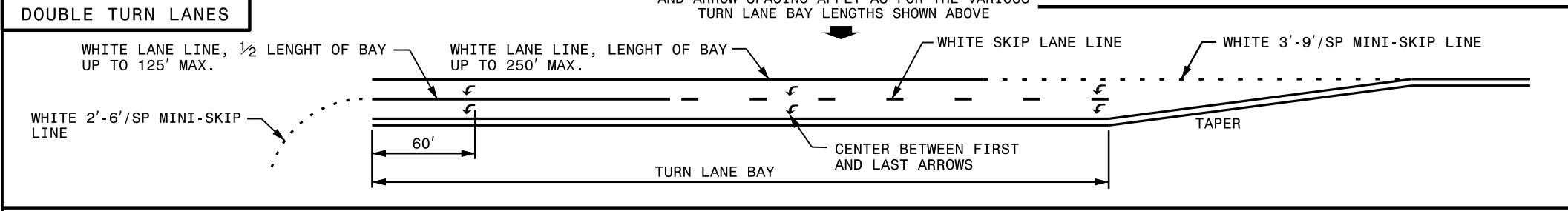
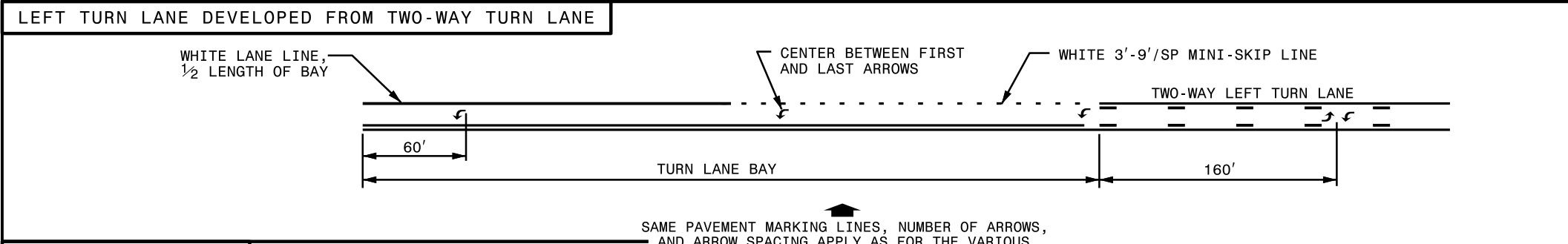
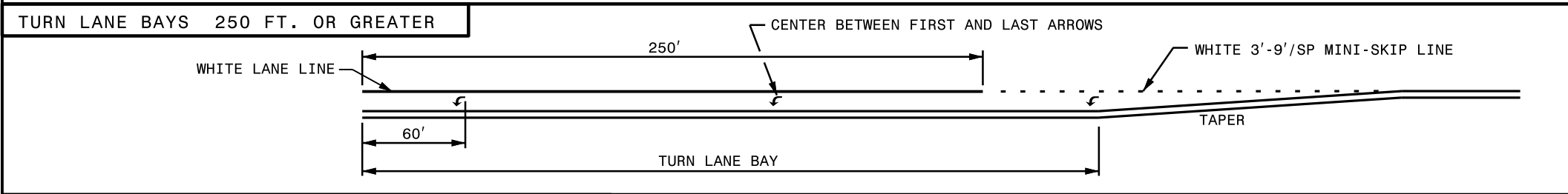
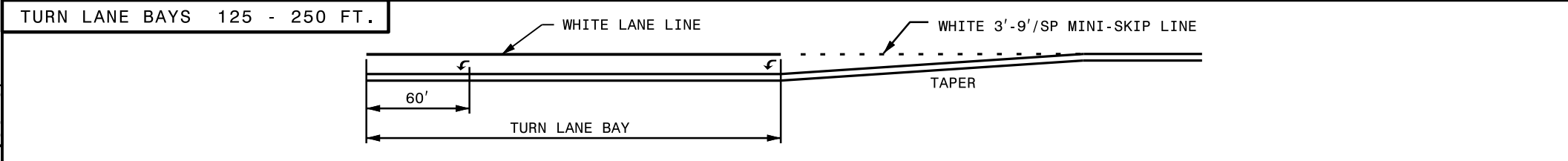
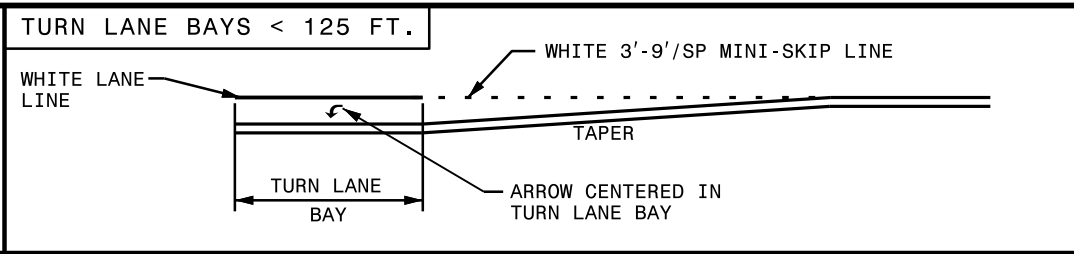
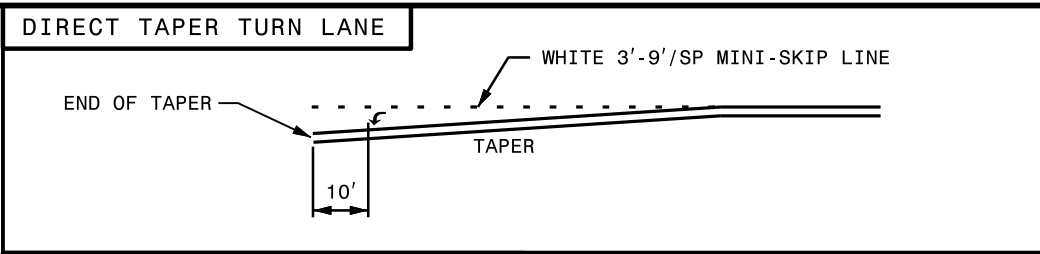
GENERAL NOTES:

- 1- PLACEMENT OF STOP BARS AT NON-SIGNALIZED INTERSECTIONS IS OPTIONAL AND USED WHERE IT IS IMPORTANT TO INDICATE THE POINT WHICH VEHICLES ARE REQUIRED TO STOP. PLACE STOP BARS NO LESS THAN 4 FEET AND NO MORE THAN 30 FEET FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY. USE 10 FEET AS THE TYPICAL SETBACK DISTANCE OR AS DIRECTED BY THE ENGINEER.
- 2- MINI-SKIP LANE LINE EXTENSIONS SHOULD BE USED AT INTERSECTIONS THAT HAVE REDUCED VISIBILITY CONDITIONS SUCH AS OFFSET, SKEWED, OR CURVED ROADWAYS.
- 3- MINI-SKIP EDGE LINE EXTENSIONS MAY BE PLACED THROUGH INTERSECTIONS AND MAJOR DRIVEWAYS.
- 4- REFER TO ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.05, 1205.08 AND 1205.09 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

LEGEND

	STOP SIGN		STATIONARY SIGN
	DIRECTION OF TRAFFIC FLOW		PAVEMENT MARKING SYMBOLS
*	OPTIONAL		

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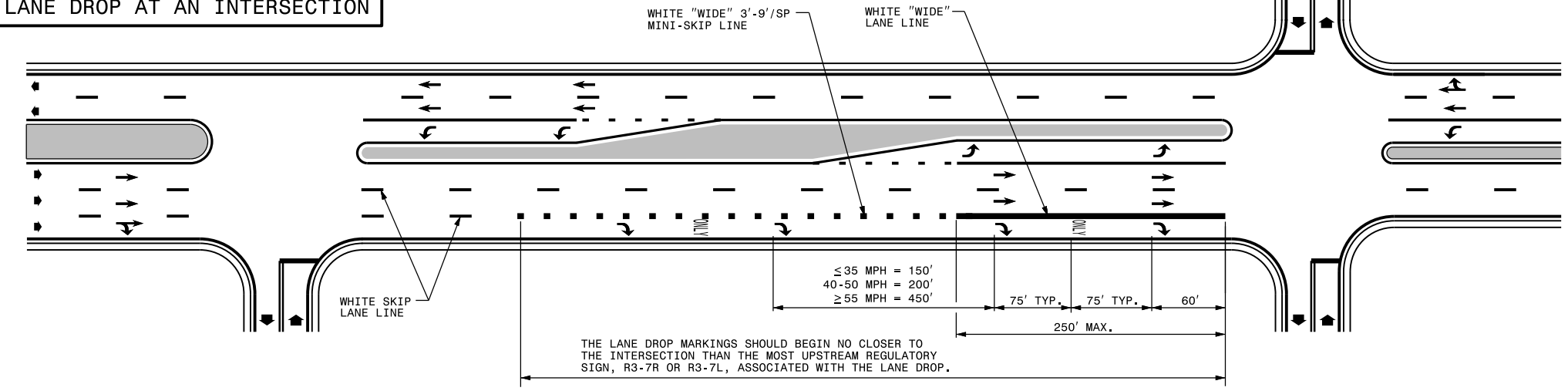


GENERAL NOTES:

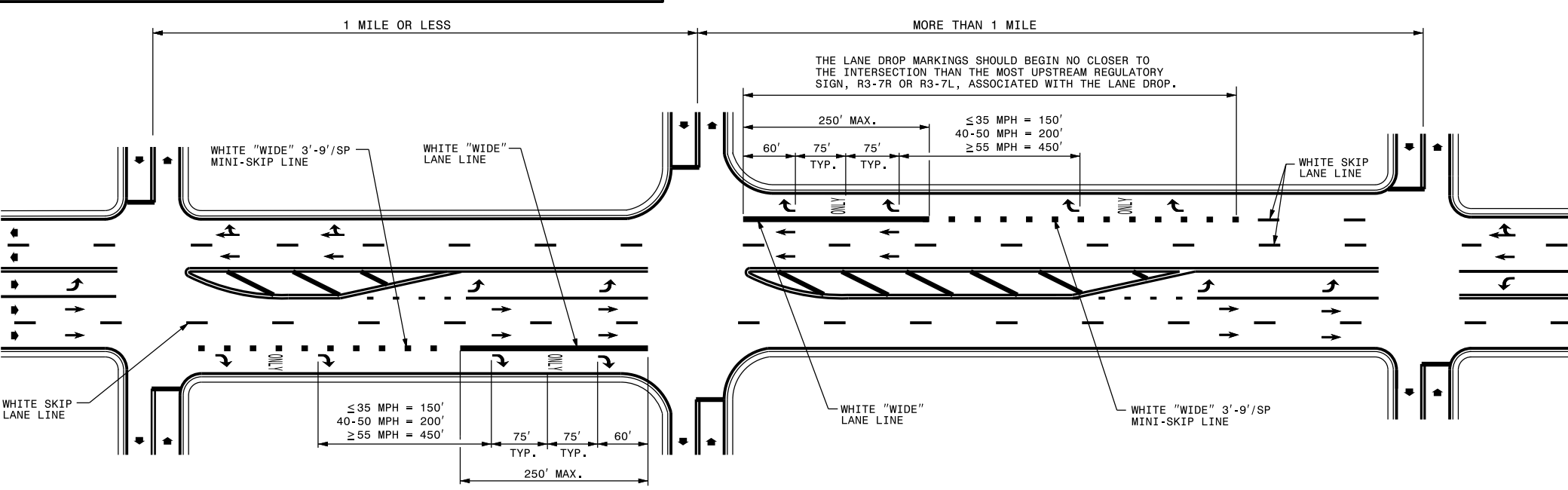
- 1- USE THE GUIDANCE SHOWN ABOVE IN CONJUNCTION WITH THE INTERSECTION GUIDANCE SHOWN ON ROADWAY STANDARD DRAWING 1205.04.
- 2- THE NUMBER OF ARROWS SHOWN IS THE MINIMUM REQUIRED. USE ADDITIONAL ARROWS AS DIRECTED BY THE ENGINEER.

LEGEND	
	PAVEMENT MARKING SYMBOL

LANE DROP AT AN INTERSECTION



LANE DROP AT AN INTERSECTION WITH AN AUXILIARY LANE



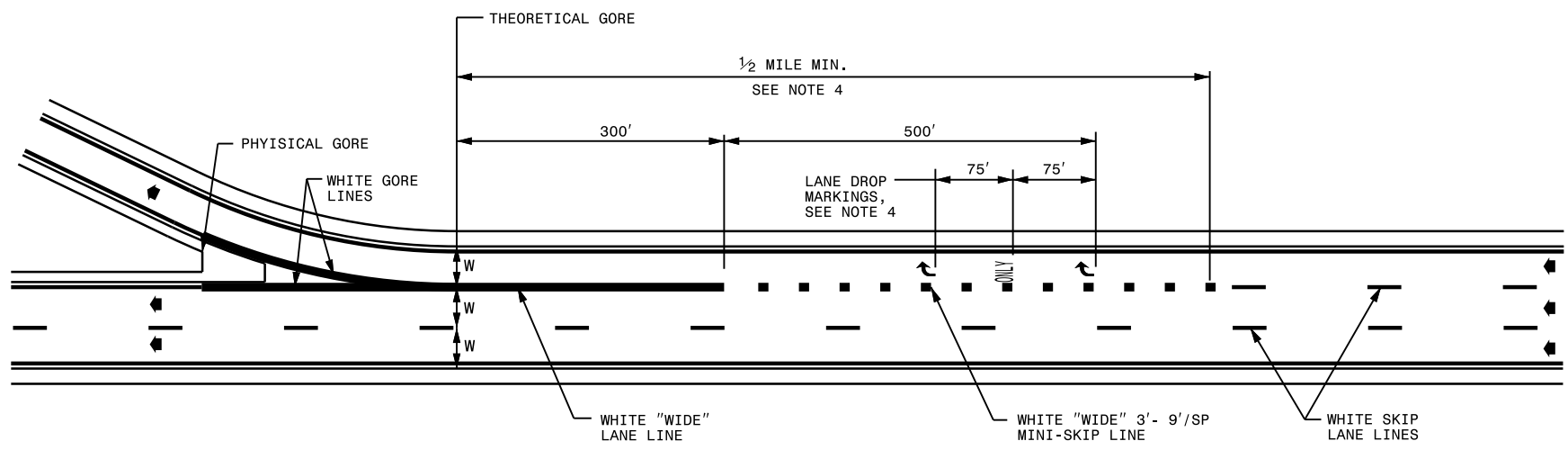
GENERAL NOTES:

- 1- USE THE GUIDANCE SHOWN ON THE ABOVE DETAILS IN CONJUNCTION WITH INTERSECTION GUIDANCE SHOWN ON ROADWAY STANDARD DRAWING 1205.04.
- 2- LANE LINES INDICATED AS "WIDE" SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.

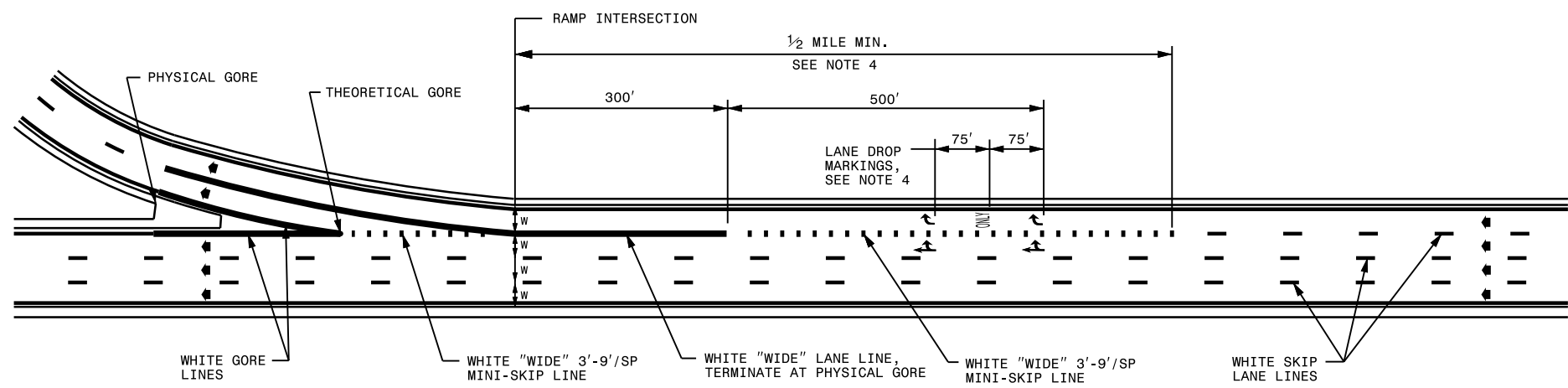
LEGEND	
W = WIDTH OF TRAVEL LANE	ONLY PAVEMENT MARKING SYMBOLS & CHARACTERS
<ul style="list-style-type: none"> ➔ DIRECTION OF TRAFFIC FLOW 	

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LANE DROP AT A SINGLE LANE EXIT RAMP



LANE DROP AT A MULTI-LANE EXIT RAMP

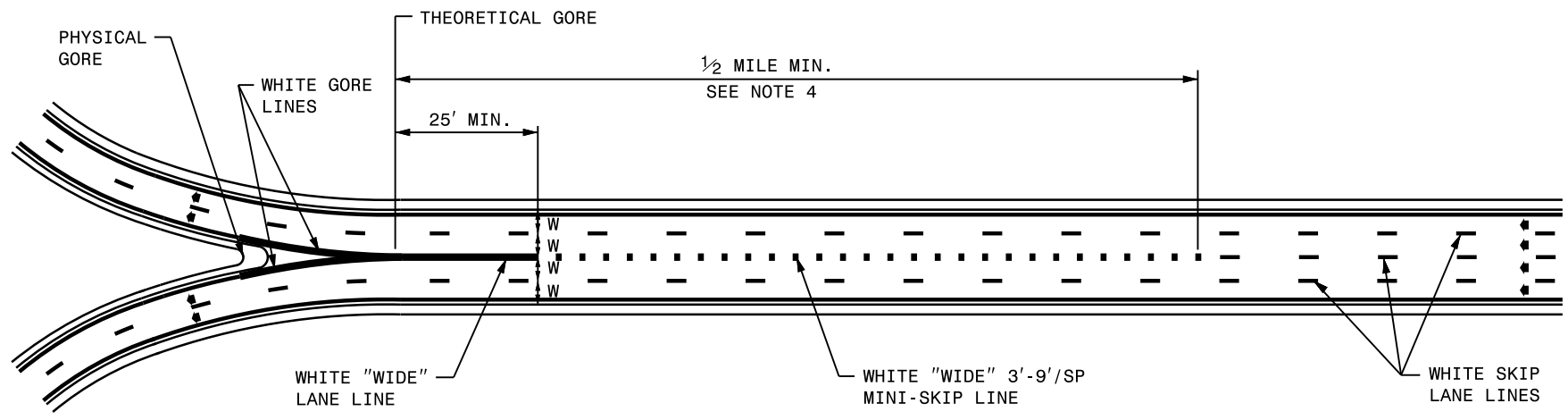


GENERAL NOTES:

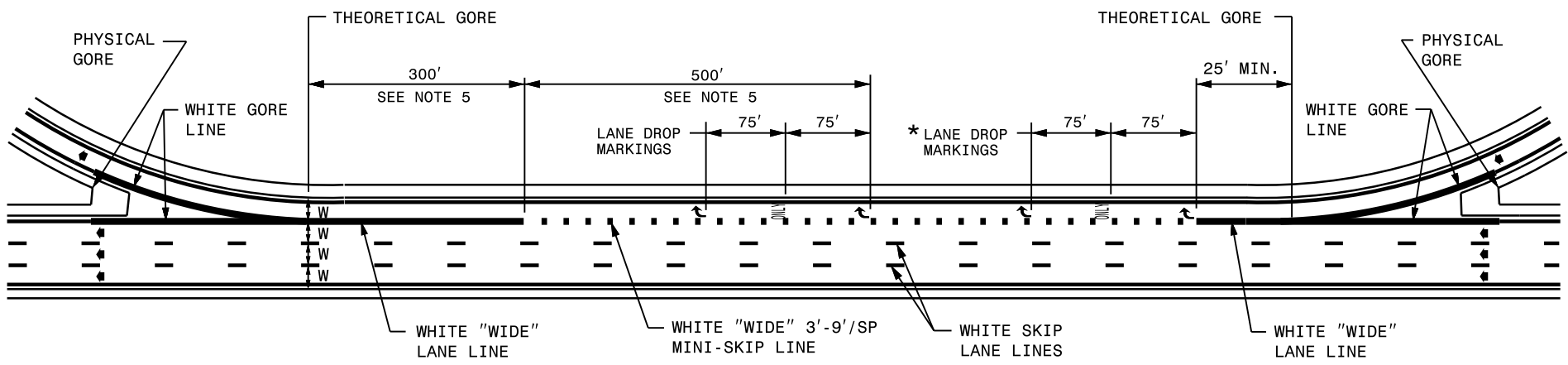
- 1- USE THE GUIDANCE SHOWN ON THE FOLLOWING DETAILS IN CONJUNCTION WITH THE RAMP GUIDANCE SHOWN ON ROADWAY STANDARD DRAWING 1205.03.
- 2- LANE LINES INDICATED AS "WIDE" SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.
- 3- GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.
- 4- MINI-SKIPS MAY BE EXTENDED TO COINCIDE WITH THE LANE DROP ADVANCE ONE MILE GUIDE SIGN AS DIRECTED BY THE ENGINEER. IF MARKINGS ARE EXTENDED, ADDITIONAL LANE DROP MARKINGS MAY BE INSTALLED.

LEGEND	
W	= WIDTH OF TRAVEL LANE
←	DIRECTION OF TRAFFIC FLOW
↩ ONLY	PAVEMENT MARKING SYMBOLS & CHARACTERS

ROUTE SPLIT WITH DEDICATED LANES



AUXILIARY LANE 2 MILES OR LESS IN LENGTH BETWEEN RAMPS



GENERAL NOTES:

- 1- USE THE GUIDANCE SHOWN ON THE FOLLOWING DETAILS IN CONJUNCTION WITH THE RAMP GUIDANCE SHOWN ON ROADWAY STANDARD DRAWING 1205.03.
- 2- LANE LINES INDICATED AS "WIDE" SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.
- 3- GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.
- 4- MINI-SKIPS MAY BE EXTENDED TO COINCIDE WITH THE ROUTE SPLIT ADVANCE ONE MILE GUIDE SIGN AS DIRECTED BY THE ENGINEER.
- 5- LANE LENGTH AND LANE DROP MARKINGS PLACEMENT MAY BE ADJUSTED DEPENDING ON AUXILIARY LANE LENGTH.

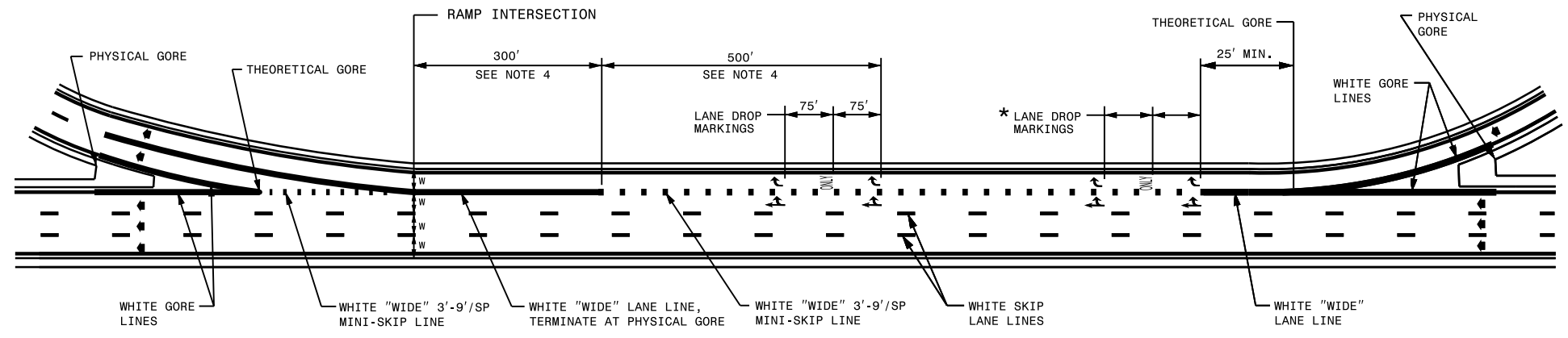
LEGEND	
*	OPTIONAL
W	WIDTH OF TRAVEL LANE
◆	DIRECTION OF TRAFFIC FLOW
↶ ONLY	PAVEMENT MARKING SYMBOLS & CHARACTERS

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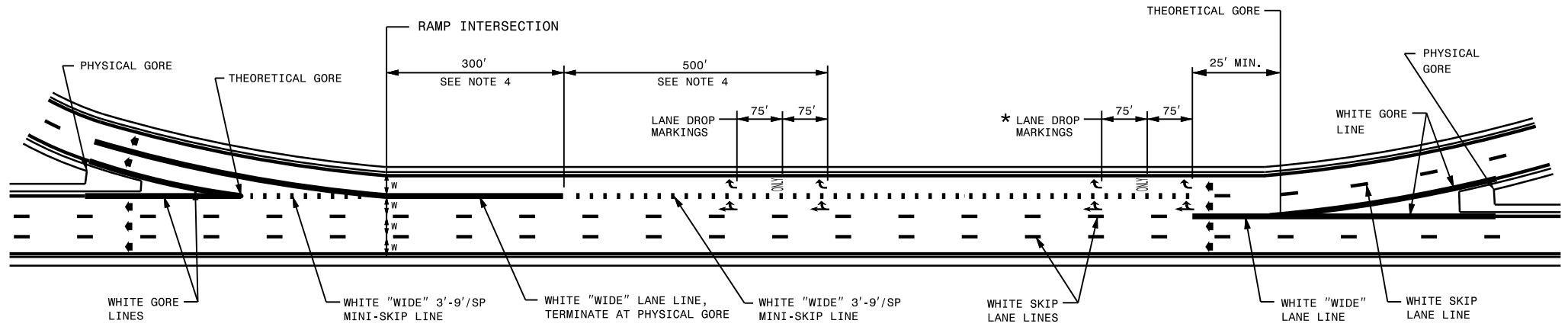
1-18

ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
 LANE DROPS

AUXILIARY LANE WITH MULTI-LANE EXIT RAMP, 2 MILES OR LESS BETWEEN RAMPS



AUXILIARY LANE WITH MULTI-LANE ENTRANCE RAMP AND EXIT RAMP, 2 MILES OR LESS BETWEEN RAMPS



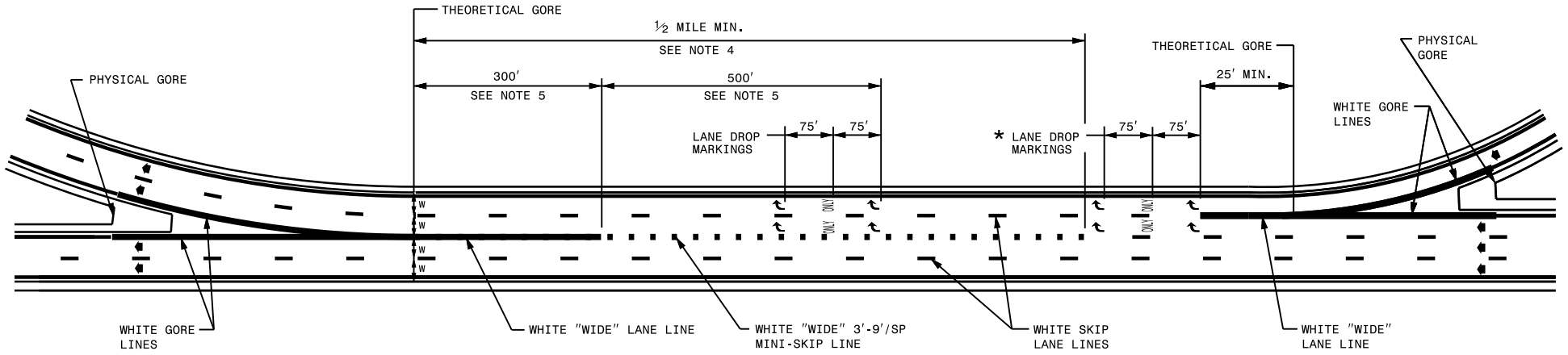
GENERAL NOTES:

- 1- USE THE GUIDANCE SHOWN ON THE FOLLOWING DETAILS IN CONJUNCTION WITH THE RAMP GUIDANCE SHOWN ON ROADWAY STANDARD DRAWING 1205.03.
- 2- LANE LINES INDICATED AS "WIDE" SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.
- 3- GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.
- 4- LANE LENGTH AND LANE DROP MARKINGS PLACEMENT MAY BE ADJUSTED DEPENDING ON AUXILIARY LANE LENGTH.

LEGEND	
*	OPTIONAL
W	WIDTH OF TRAVEL LANE
◄	DIRECTION OF TRAFFIC FLOW
↻ ONLY	PAVEMENT MARKING SYMBOLS & CHARACTERS

1-18

LANE DROP ADJACENT TO AUXILIARY LANE



GENERAL NOTES:

- 1- USE THE GUIDANCE SHOWN ON THE FOLLOWING DETAILS IN CONJUNCTION WITH THE RAMP GUIDANCE SHOWN ON ROADWAY STANDARD DRAWING 1205.03.
- 2- LANE LINES INDICATED AS "WIDE" SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.
- 3- GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.
- 4- MINI-SKIPS MAY BE EXTENDED TO COINCIDE WITH THE LANE DROP ADVANCE ONE MILE GUIDE SIGN AS DIRECTED BY THE ENGINEER.
- 5- LANE LENGTH AND LANE DROP MARKINGS PLACEMENT MAY BE ADJUSTED DEPENDING ON AUXILIARY LANE LENGTH.

LEGEND	
*	OPTIONAL
W	WIDTH OF TRAVEL LANE
◄	DIRECTION OF TRAFFIC FLOW
◄	DIRECTION OF TRAFFIC FLOW
↪ ONLY	PAVEMENT MARKING SYMBOLS & CHARACTERS

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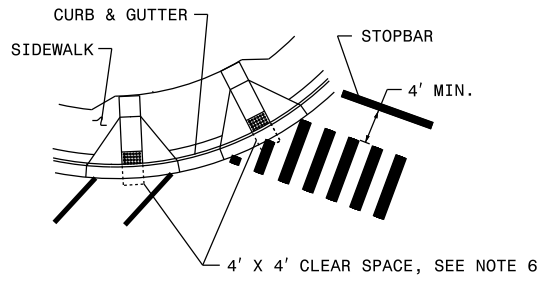
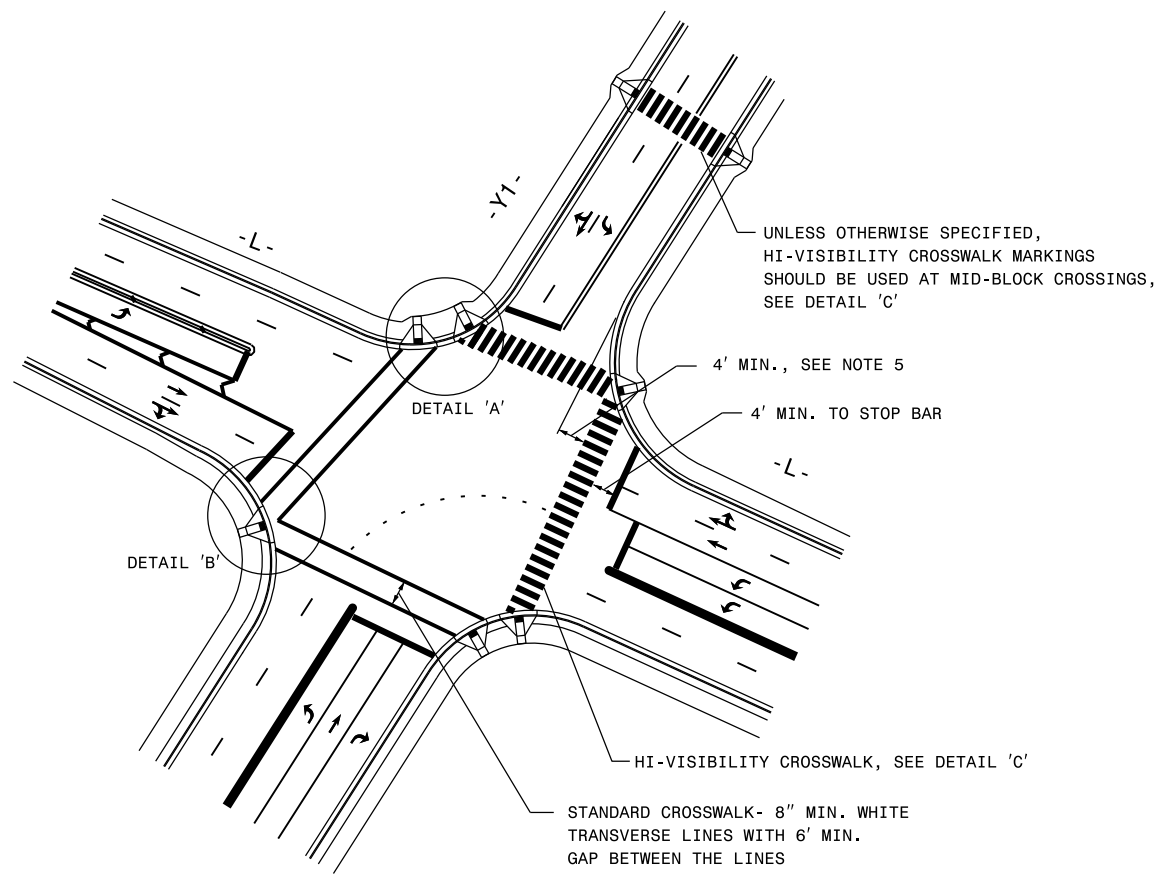
1-18

ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
LANE DROPS

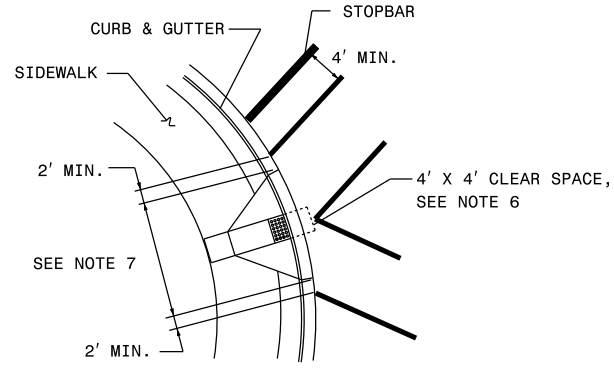
SHEET 5 OF 5

1205.06

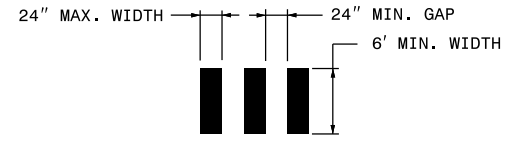
CROSSWALK PLACEMENT GUIDANCE



DETAIL 'A'- DUAL CURB RAMPS



DETAIL 'B'- SINGLE DIAGONAL CURB RAMP



DETAIL 'C'- HI-VISIBILITY CROSSWALK

GENERAL NOTES:

- 1- USE THE DETAILS ABOVE AND THE FOLLOWING NOTES FOR GUIDANCE IN PLACING CROSSWALK MARKINGS. REFER TO NCDOT ROADWAY STANDARD DRAWINGS, MUTCD AND ADA STANDARDS FOR ADDITIONAL GUIDANCE.
- 2- THE LOCATION AND TYPE OF CROSSWALK MARKINGS SHOWN ON THE ABOVE DETAILS ARE FOR REFERENCE ONLY. LOCATE CROSSWALK MARKINGS AS SHOWN ON THE PROJECT DETAIL SHEETS OR AS DIRECTED BY THE ENGINEER. THE CROSSWALK MARKING TYPE, STANDARD OR HI-VISIBILITY, SHALL BE INSTALLED AS SPECIFIED ON THE PROJECT DETAIL SHEETS OR AS DIRECTED BY THE ENGINEER.
- 3- THE STANDARD CROSSWALK IS TWO WHITE 8" MIN. TRANSVERSE LINES WITH A 6' MIN. GAP BETWEEN THE LINES. THE HI-VISIBILITY CROSSWALK IS WHITE 24" MAX. WIDE LONGITUDINAL LINES WITH 24" MIN. GAPS BETWEEN LINES, SEE DETAIL 'C'. HI-VISIBILITY CROSSWALKS SHOULD BE A MINIMUM OF 6' WIDE. CURB RAMPS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARES.
- 4- STOP BARS SHOULD BE PLACED A 4' MIN. IN ADVANCE OF NEAREST CROSSWALK LINE.

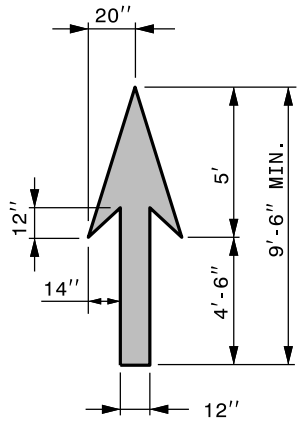
- 5- SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL IS 4' MIN.
- 6- BEYOND THE BOTTOM GRADE BREAK, A CLEAR SPACE OF 4' X 4' MIN. SHALL BE PROVIDED WITHIN THE MARKINGS.
- 7- SINGLE DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 2' MIN. LONG LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING, SEE DETAIL 'B'.
- 8- CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE LATEST NCDOT ROADWAY STANDARD DRAWINGS. CURB RAMPS THROUGH MEDIAN ISLANDS, SINGLE RAMPS AT DUAL CROSSWALKS OR LIMITED R/W SITUATIONS, WILL BE HANDLED BY SPECIAL DETAILS. CONTACT THE CONTRACT STANDARDS AND DEVELOPMENT UNIT FOR DETAILS OR A SPECIAL DESIGN.

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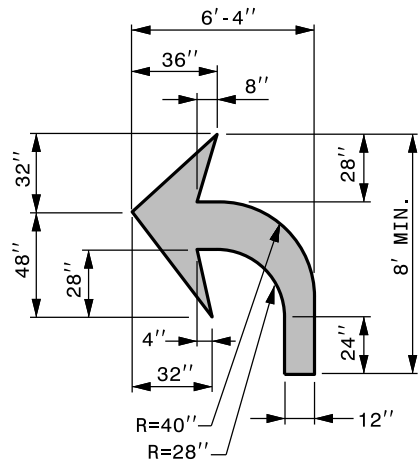
1-18

ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
 PEDESTRIAN CROSSWALKS

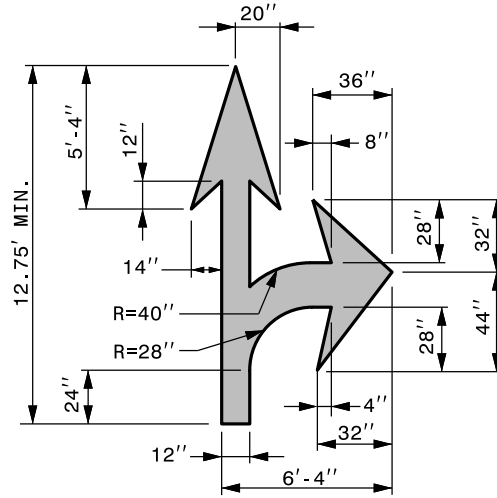
STRAIGHT ARROW



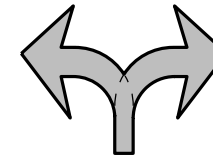
RIGHT OR LEFT TURN ARROW



COMBINATION STRAIGHT AND LEFT OR RIGHT TURN ARROW

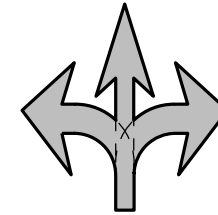


COMBINATION LEFT AND RIGHT TURN ARROW



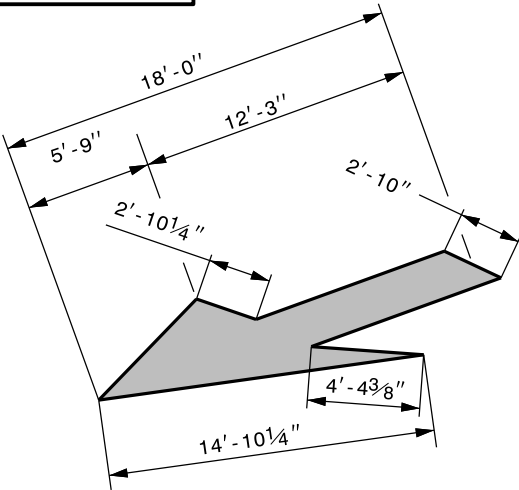
SAME DIMENSIONS APPLY AS FOR THE LEFT/RIGHT TURN ARROW

COMBINATION LEFT AND STRAIGHT AND RIGHT TURN ARROW

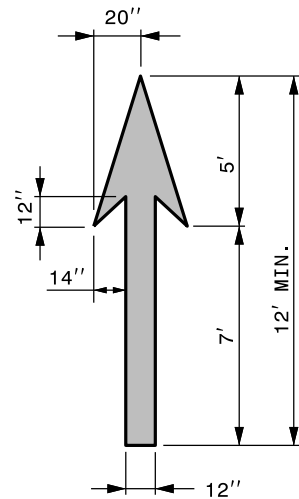


SAME DIMENSIONS APPLY AS FOR THE COMBINATION STRAIGHT AND LEFT/RIGHT TURN ARROW

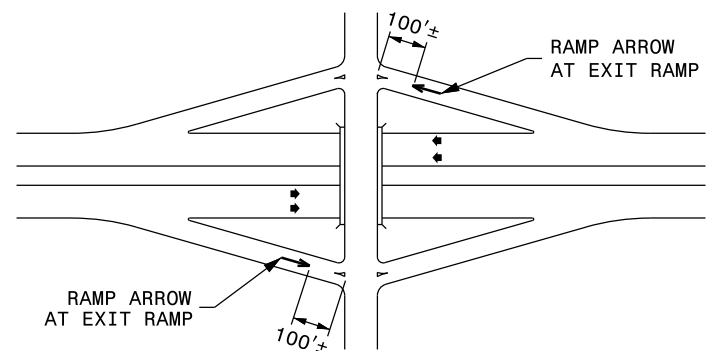
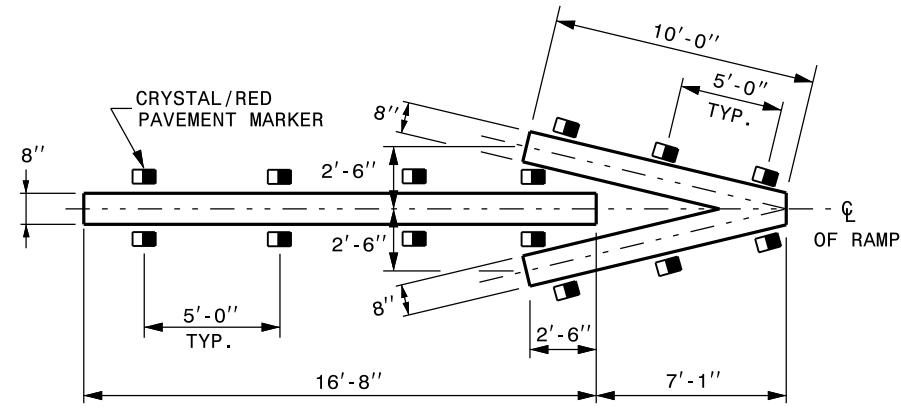
MERGE ARROW



ELONGATED STRAIGHT ARROW



WRONG-WAY RAMP ARROW



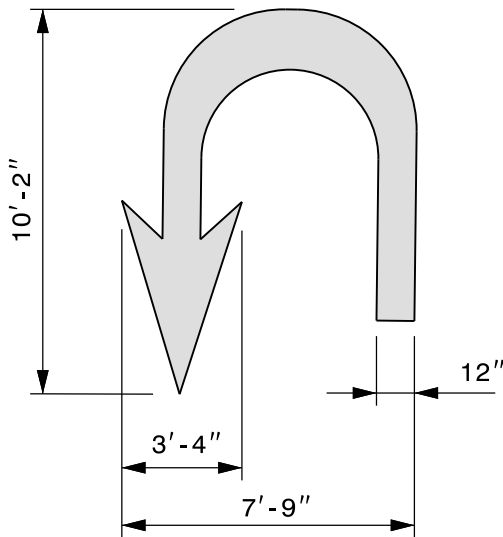
NOTE:

1- WHEN INSTALLING COLD APPLIED PLASTIC ON CONCRETE, IT IS RECOMMENDED TO USE COLD APPLIED PLASTIC WITH A BLACK CONTRASTING BOLDER.

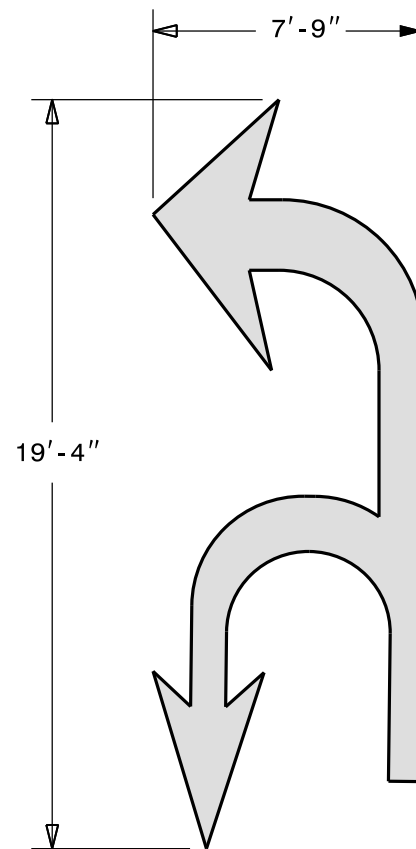
GENERAL NOTES:

- 1- USE THE COLOR WHITE FOR ALL PAVEMENT MARKING SYMBOLS.
- 2- DO NOT LOCATE PAVEMENT MARKING SYMBOLS AS TO ENCRANCH INTO INTERSECTION AREAS.
- 3- DO NOT PLACE SYMBOLS ACROSS TRANSVERSE EXPANSION JOINTS ON PORTLAND CEMENT CONCRETE PAVEMENTS, UNLESS APPROVED BY THE ENGINEER.
- 4- CONFORM ALL SYMBOLS TO THE FHWA "STANDARD HIGHWAY SIGNS" MANUAL WHICH INCLUDES PAVEMENT MARKINGS AND STANDARD ALPHABETS (REFER TO SHEETS 6 THRU 9). DIMENSIONS CAN VARY AMONG MANUFACTURERS, THEREFORE SLIGHT VARIANCES ARE ACCEPTABLE. HOWEVER, ALL SYMBOLS ARE REQUIRED TO BE APPROVED BY THE DEPARTMENT.

U-TURN ARROW LEFT

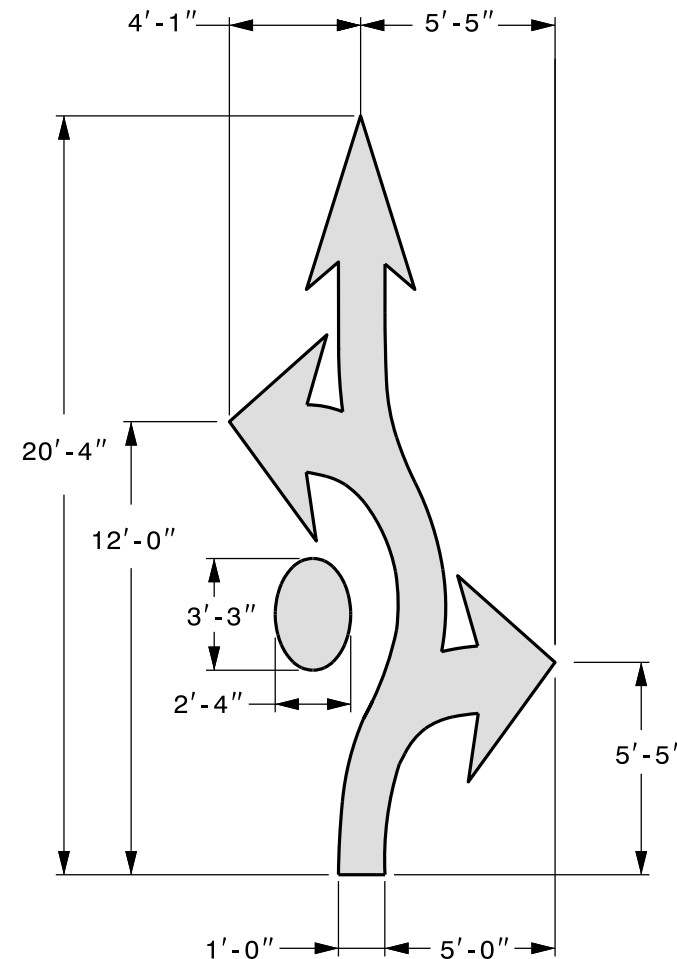


LEFT/U-TURN ARROW COMBINATION

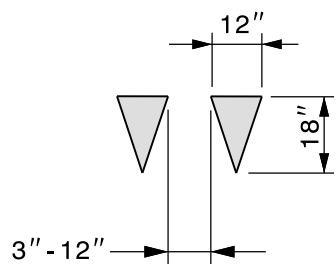


ROUNDBABOUT FISH-HOOK ARROW TYPICAL

USE TYPICAL TO LAYOUT SYMBOL CONFIGURATION NEEDED

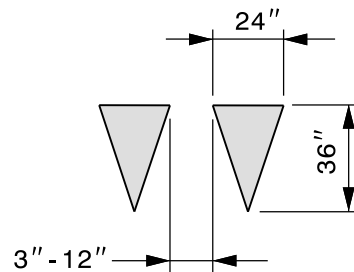


12" YIELD LINE SYMBOL



USE ON LANES UNDER 12'

24" YIELD LINE SYMBOL



USE ON LANES 12' AND ABOVE

GENERAL NOTES:

- 1- USE THE COLOR WHITE FOR ALL PAVEMENT MARKING SYMBOLS.
- 2- DO NOT LOCATE PAVEMENT MARKING SYMBOLS AS TO ENCROACH INTO INTERSECTION AREAS.
- 3- DO NOT PLACE SYMBOLS ACROSS TRANSVERSE EXPANSION JOINTS ON PORTLAND CEMENT CONCRETE PAVEMENTS, UNLESS APPROVED BY THE ENGINEER.
- 4- CONFORM ALL SYMBOLS TO THE FHWA "STANDARD HIGHWAY SIGNS" MANUAL WHICH INCLUDES PAVEMENT MARKINGS AND STANDARD ALPHABETS (REFER TO SHEETS 6 THRU 9). DIMENSIONS CAN VARY AMONG MANUFACTURERS, THEREFORE SLIGHT VARIANCES ARE ACCEPTABLE. HOWEVER, ALL SYMBOLS ARE REQUIRED TO BE APPROVED BY THE DEPARTMENT.

ROADWAY STANDARD DRAWING FOR

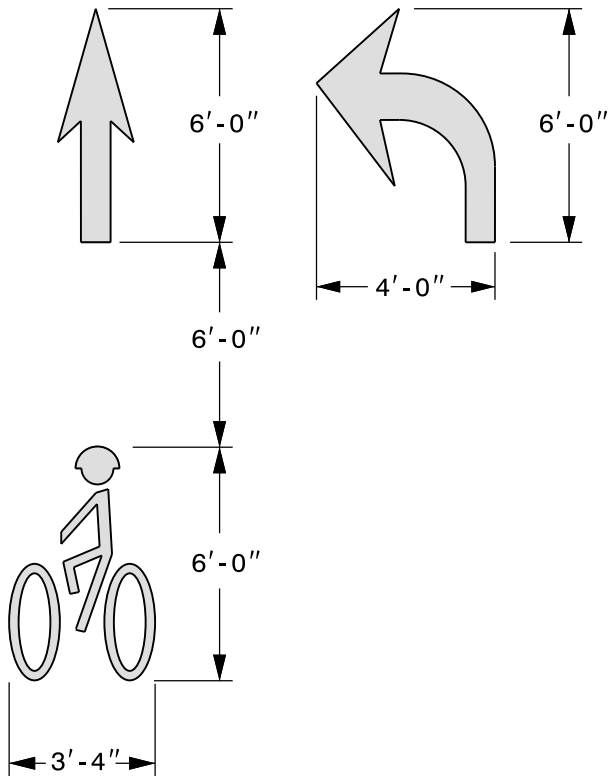
PAVEMENT MARKINGS

SYMBOLS AND WORD MESSAGES

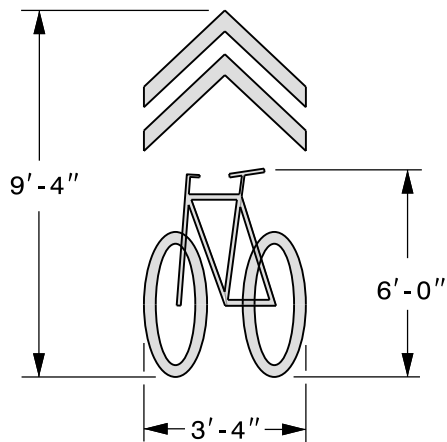
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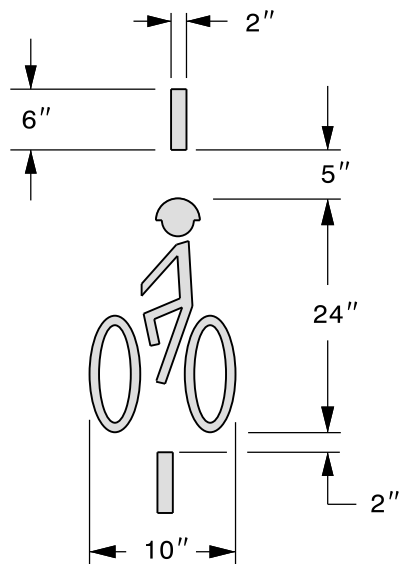
BICYCLE LANE SYMBOLS



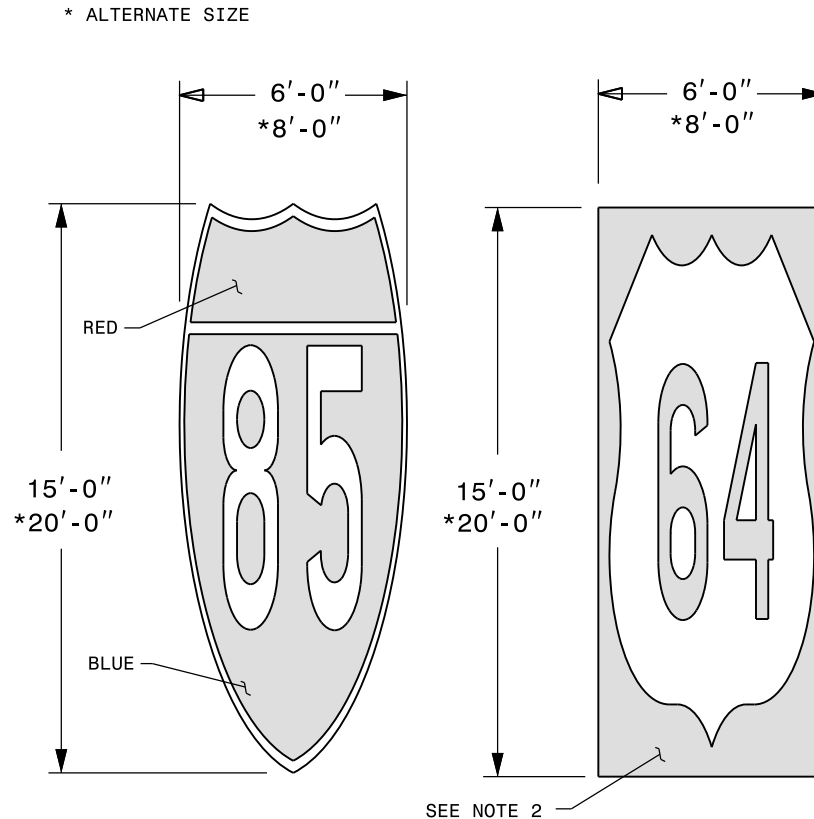
SHARED LANE SYMBOL



BICYCLE DETECTOR SYMBOL



ROUTE SHIELDS



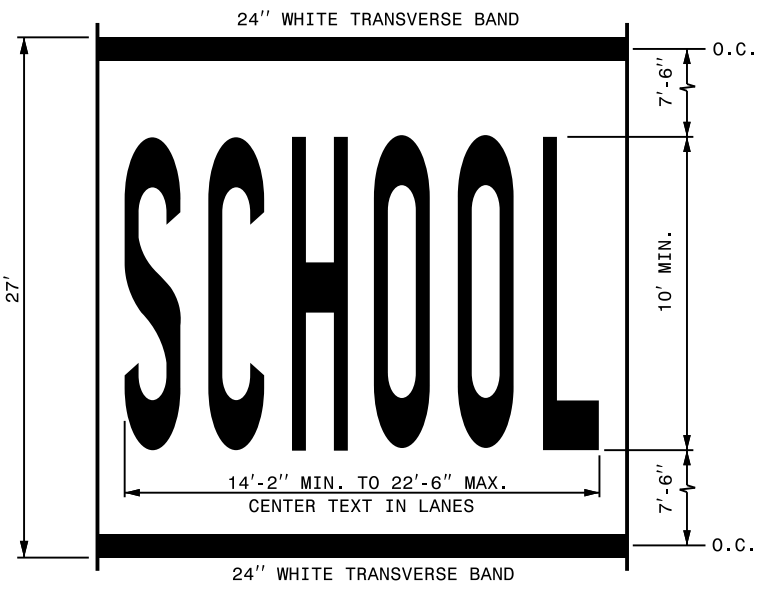
NOTES:

- 1- INTERSTATE SHIELD HAS A COLOR BACKGROUND AS INDICATED.
- 2- BLACK CONTRASTING BACKGROUND OPTIONAL. SHIELD WITHOUT BACKGROUND SHALL MAINTAIN DIMENSIONS SHOWN.

GENERAL NOTES:

- 1- USE THE COLOR WHITE FOR ALL PAVEMENT MARKING SYMBOLS.
- 2- DO NOT LOCATE PAVEMENT MARKING SYMBOLS AS TO ENCROACH INTO INTERSECTION AREAS.
- 3- DO NOT PLACE SYMBOLS ACROSS TRANSVERSE EXPANSION JOINTS ON PORTLAND CEMENT CONCRETE PAVEMENTS, UNLESS APPROVED BY THE ENGINEER.
- 4- CONFORM ALL SYMBOLS TO THE FHWA "STANDARD HIGHWAY SIGNS" MANUAL WHICH INCLUDES PAVEMENT MARKINGS AND STANDARD ALPHABETS (REFER TO SHEETS 6 THRU 9). DIMENSIONS CAN VARY AMONG MANUFACTURERS, THEREFORE SLIGHT VARIANCES ARE ACCEPTABLE. HOWEVER, ALL SYMBOLS ARE REQUIRED TO BE APPROVED BY THE DEPARTMENT.

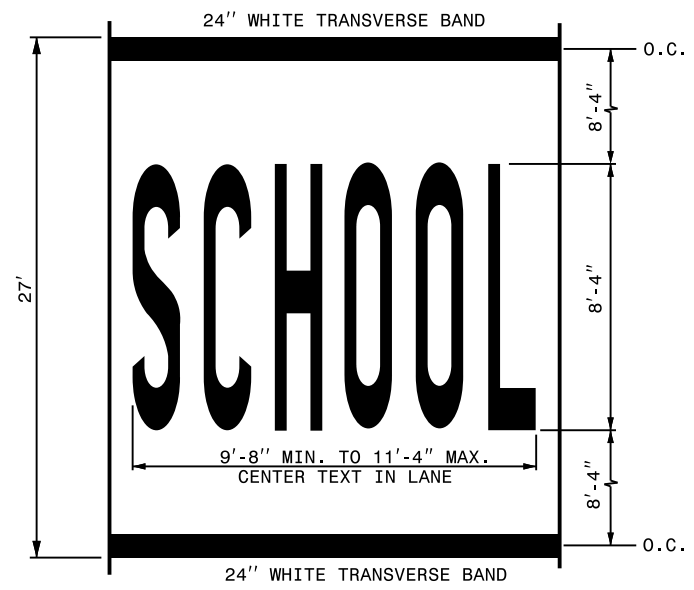
MULTI-LANE WIDTH "SCHOOL"



LETTER HEIGHT = 10' MIN.
 LETTER WIDTH = 20"
 SPACING = 10" MIN./30" MAX. (USE EQUAL SPACING BETWEEN LETTERS)

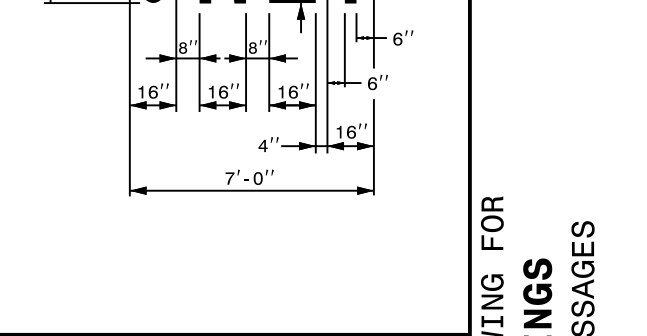
NOTE: THE TWO-LANE PAVEMENT MARKING DIMENSIONS OF "SCHOOL" SHOWN IN PART 7 OF THE MUTCD MAY ALSO BE USED.

SINGLE LANE WIDTH "SCHOOL"

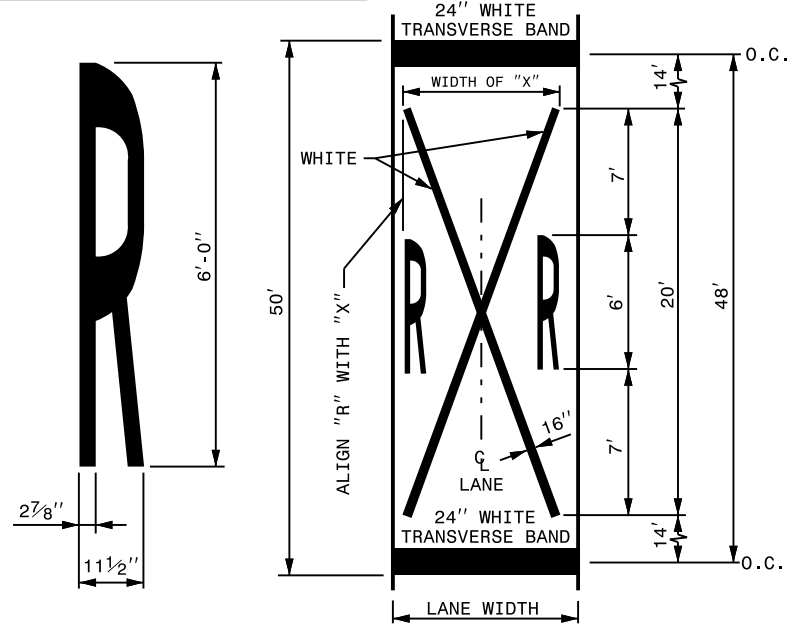


LETTER HEIGHT = 8'-4"
 LETTER WIDTH = 16"
 SPACING = 4" MIN./8" MAX. (USE EQUAL SPACING BETWEEN LETTERS)

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RAILROAD RXR SYMBOL

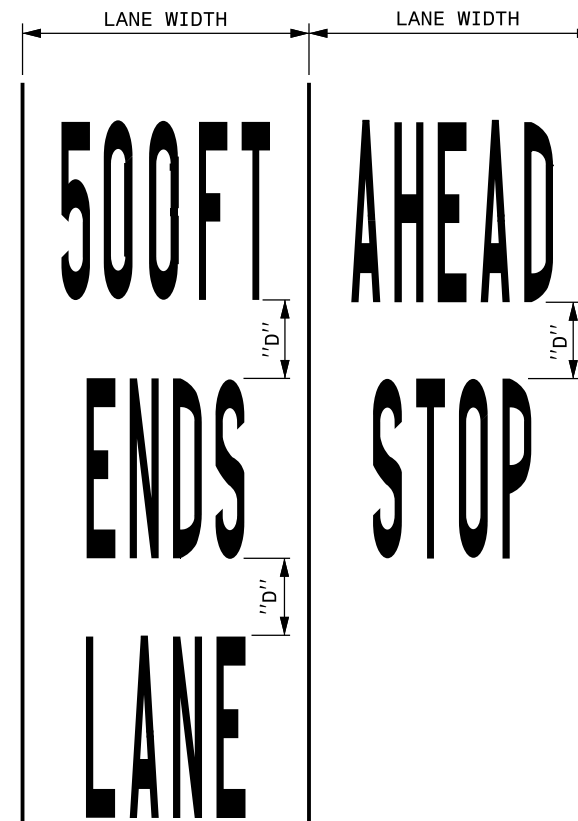
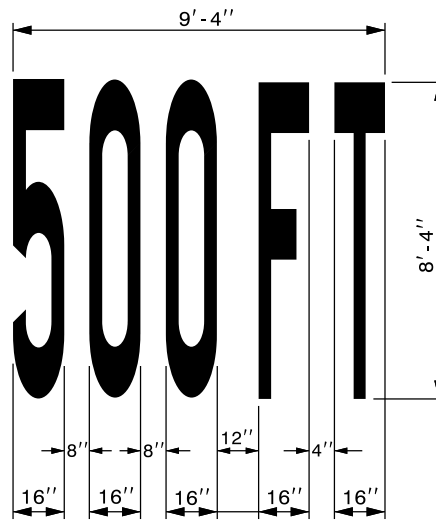
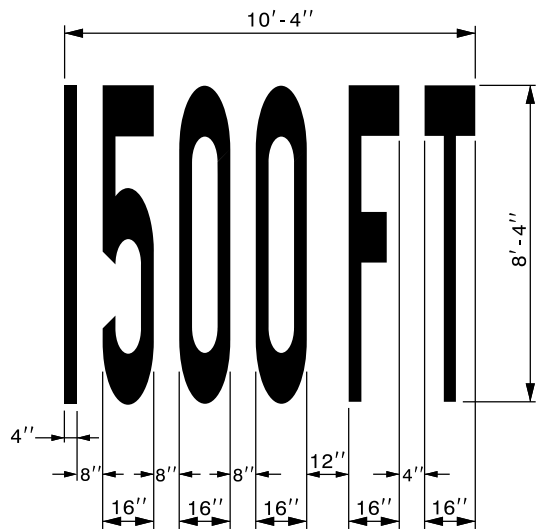


LANE WIDTH (FEET)	WIDTH OF "X" (FEET)
8' ≤ W ≤ 9'	7'
9' < W ≤ 12'	8'
W > 12'	10'

GENERAL NOTES:

- 1- THE SCHOOL PAVEMENT MARKING CONSISTS OF SIX (6) CHARACTERS. THE TWO (2) 24" TRANSVERSE BANDS WILL BE PAID PER LINEAR FOOT AS A 24" PAVEMENT MARKING LINE. REFER TO ROADWAY STANDARD DRAWING 1205.10 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.
- 2- PAVEMENT MARKING IN ADVANCE OF A HIGHWAY-RAIL CROSSING SHALL CONSIST OF TWO (2) CHARACTERS AND TWO (2) 16" LINES (FORMING AN X) WHICH ARE PAID PER LINEAR FOOT AS A 16" PAVEMENT MARKING LINE. THE TWO (2) 24" TRANSVERSE BANDS WILL BE PAID PER LINEAR FOOT AS A 24" PAVEMENT MARKING LINE. REFER TO ROADWAY STANDARD DRAWING 1205.11 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

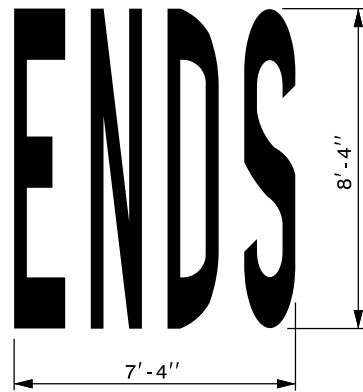
ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
 SYMBOLS AND WORD MESSAGES



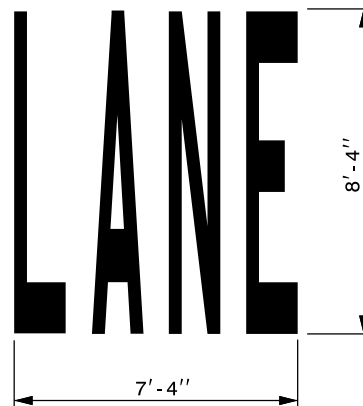
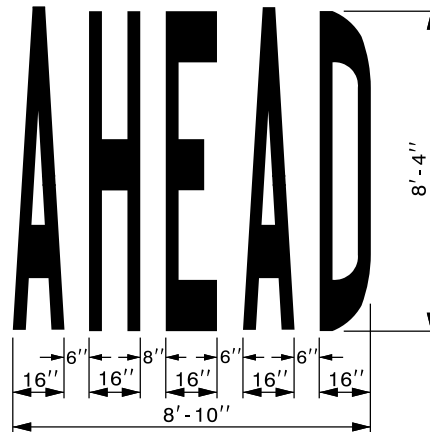
DIRECTION OF TRAVEL
WORDS ARE CENTERED IN TRAVEL LANE

SPEED LIMIT (MPH)	DISTANCE "D" BETWEEN WORD SYMBOLS
35 OR LESS	40'
40 - 50	60'
55 - 60	80'
65 OR GREATER	100'

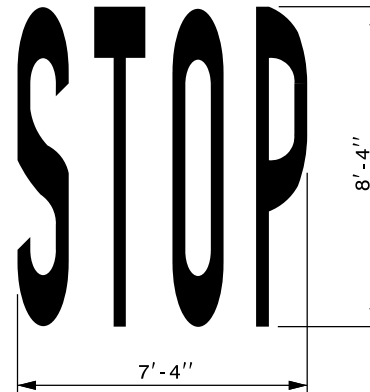
DISTANCE "D" MAY BE ADJUSTED AS NECESSARY FOR OPTICAL SPACING



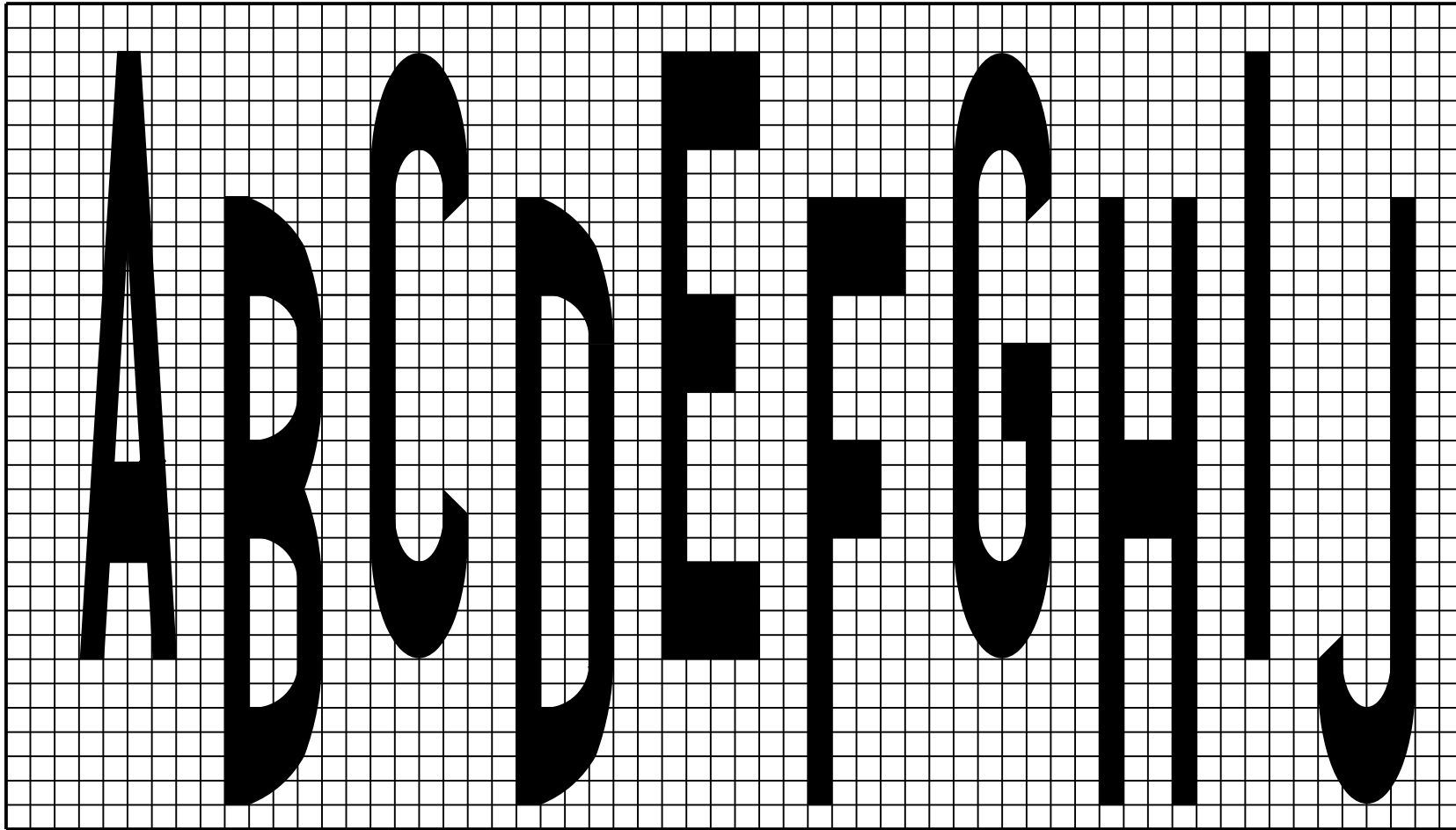
LETTER HEIGHT=8'-4"
LETTER WIDTH=16"
LETTER SPACING=8"



LETTER HEIGHT=8'-4"
LETTER WIDTH=16"
LETTER SPACING=8"

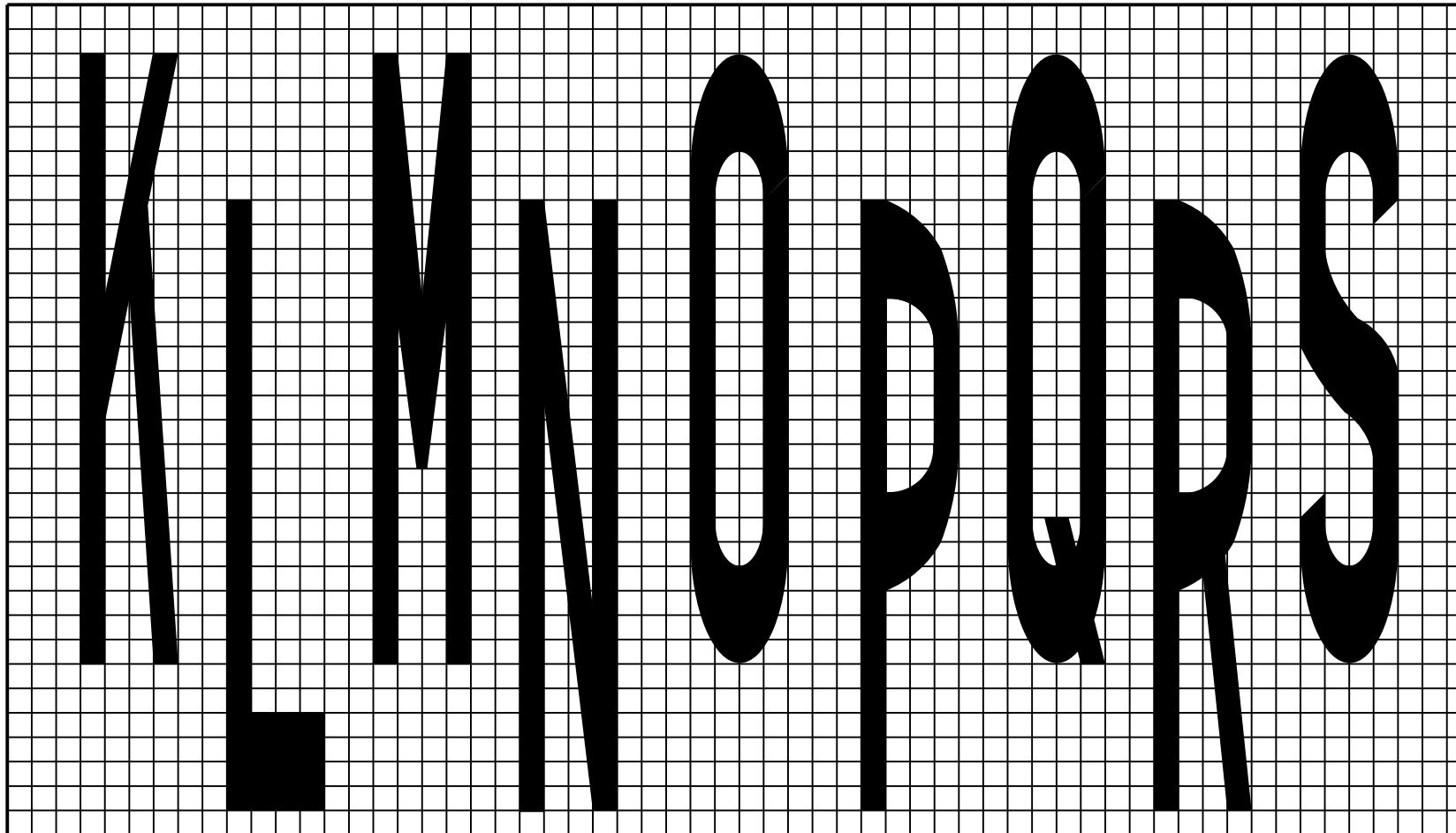


LETTER HEIGHT=8'-4"
LETTER WIDTH=16"
LETTER SPACING=8"



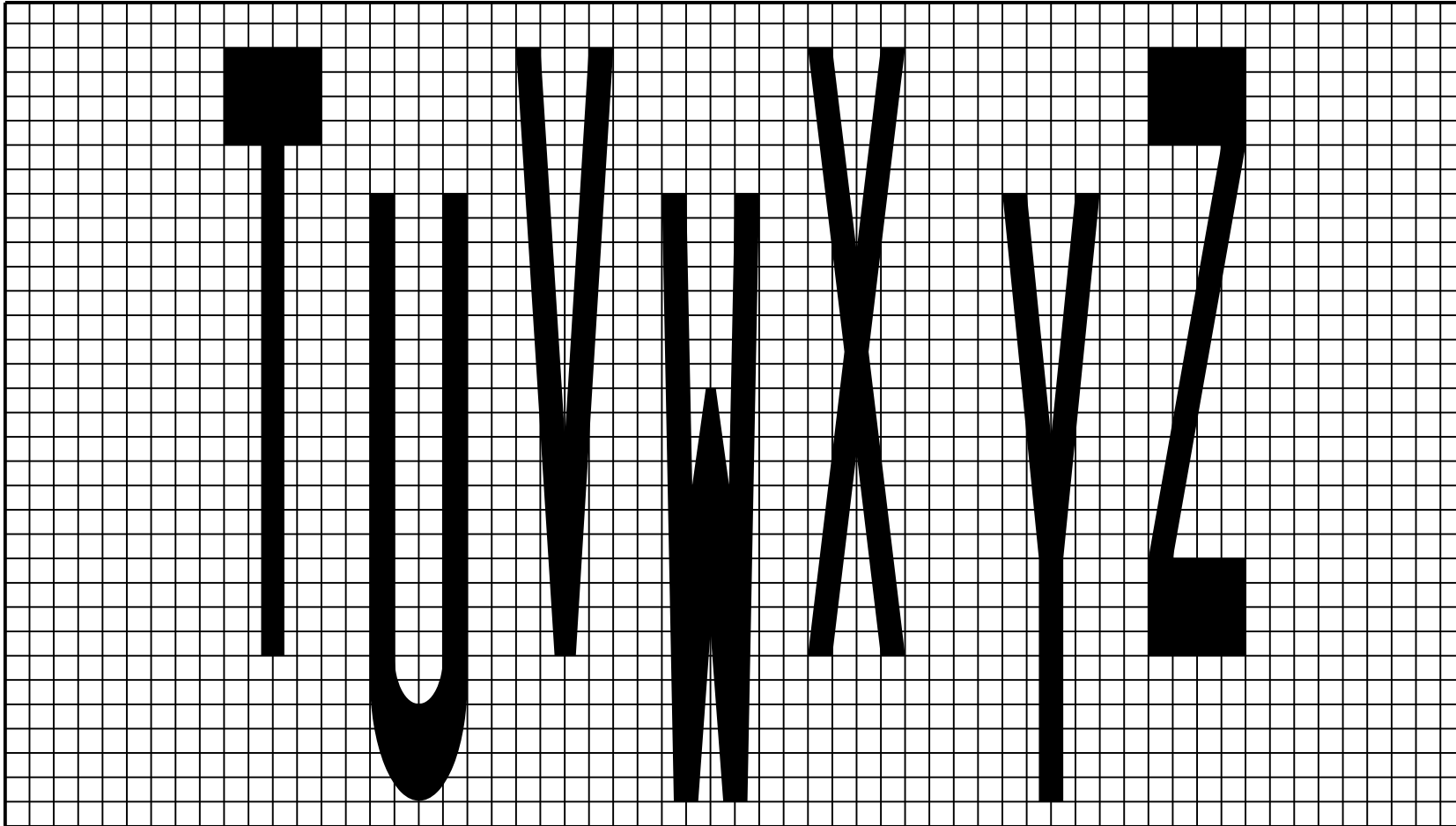
GENERAL NOTES:

- 1- STANDARD CHARACTERS ARE 25 GRID UNITS HIGH AND 4 UNITS WIDE (EXCEPT LETTER "I" AND THE NUMBER "1" WHICH ARE 1 UNIT WIDE).
- 2- VERTICAL STROKES ARE 1 UNIT WIDE, HORIZONTAL STROKES ARE 4 UNITS HIGH.
- 3- SPACE 1 UNIT (MIN.) BETWEEN CHARACTERS OR AS OTHERWISE SHOWN (OPTICAL SPACING MAY BE USED).
- 4- STANDARD CHARACTER HEIGHTS ARE 8'-4". EXCEPT FOR THE 6' RAILROAD 'R' SYMBOL AND THE TWO-LANE 10' SCHOOL SYMBOL.
- 5- FOR 8'-4" HIGH CHARACTERS, THE WIDTH IS 16" (USE 4" FOR EACH GRID SQUARE).
- 6- FOR 10' HIGH CHARACTERS, THE WIDTH IS 20" (USE 5" FOR EACH GRID SQUARE).
- 7- FOR 6' HIGH CHARACTERS, THE WIDTH IS 11½" (USE 2⅞" FOR EACH GRID SQUARE).



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ROADWAY STANDARD DRAWING FOR

PAVEMENT MARKINGS

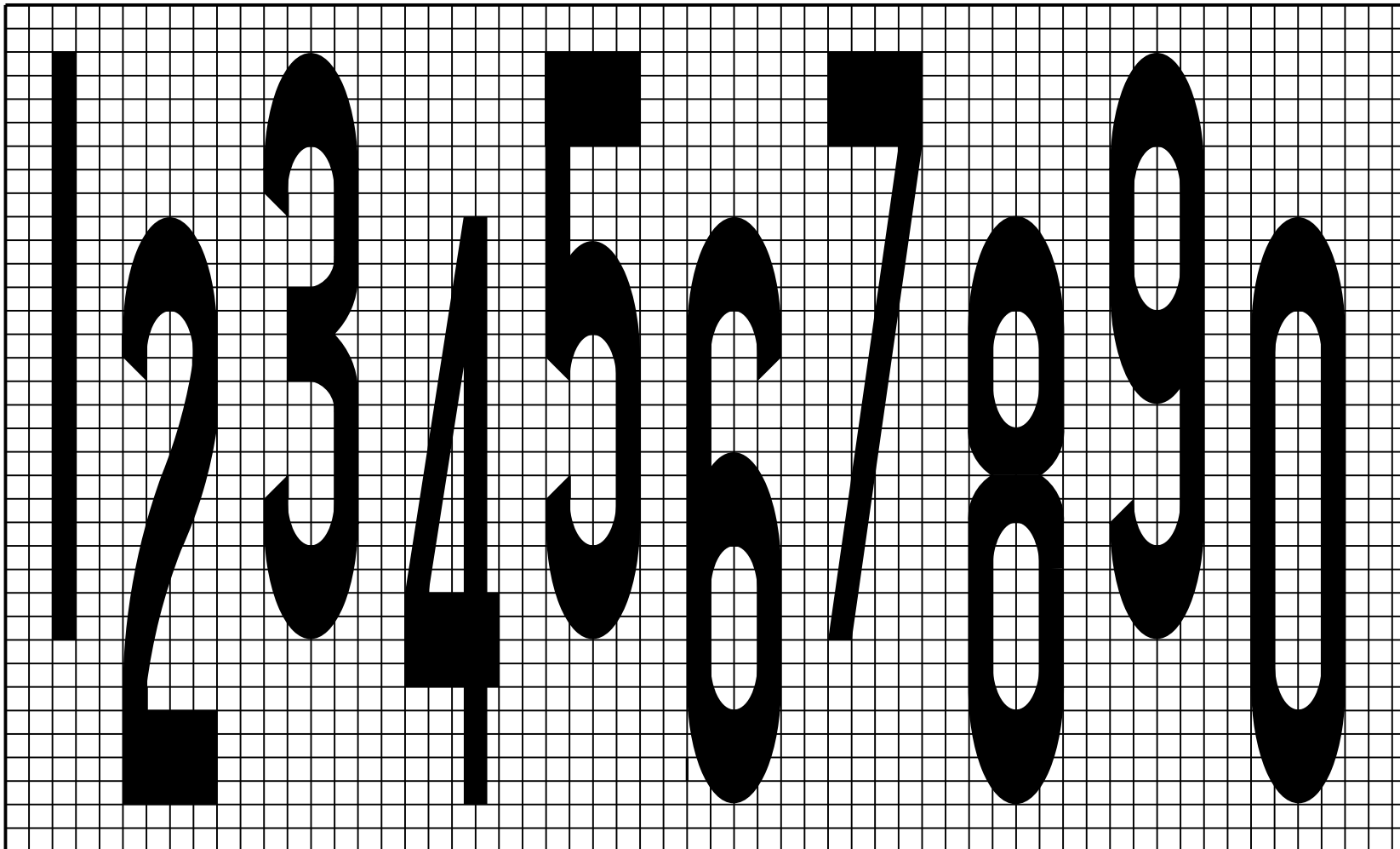
STANDARD ALPHABET AND SYMBOLS FOR
HIGHWAY PAVEMENT MARKING (USDOT-FHWA)

STATE OF

NORTH CAROLINA

DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

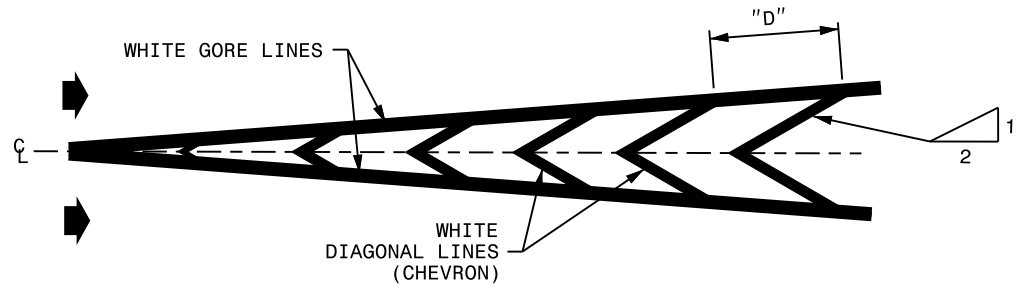
RALEIGH, N.C.



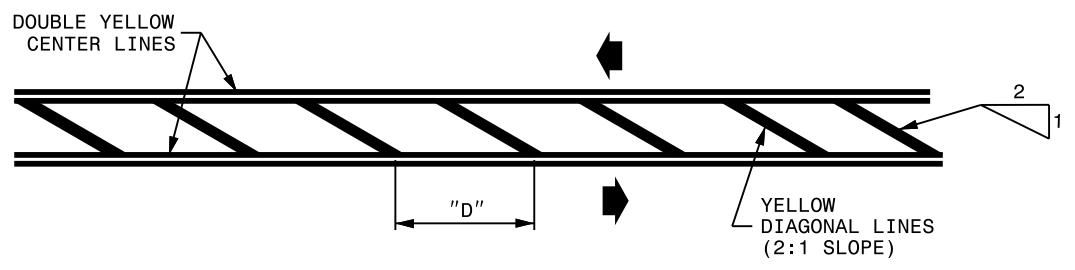
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- 3- SPACE 1 UNIT (MIN.) BETWEEN CHARACTERS OR AS OTHERWISE SHOWN (OPTICAL SPACING MAY BE USED).
- 4- STANDARD CHARACTER HEIGHTS ARE 8'-4". EXCEPT FOR THE 6' RAILROAD 'R' SYMBOL AND THE TWO-LANE 10' SCHOOL SYMBOL.
- 5- FOR 8'-4" HIGH CHARACTERS, THE WIDTH IS 16" (USE 4" FOR EACH GRID SQUARE).
- 6- FOR 10' HIGH CHARACTERS, THE WIDTH IS 20" (USE 5" FOR EACH GRID SQUARE).
- 7- FOR 6' HIGH CHARACTERS, THE WIDTH IS 11½" (USE 2⅞" FOR EACH GRID SQUARE).

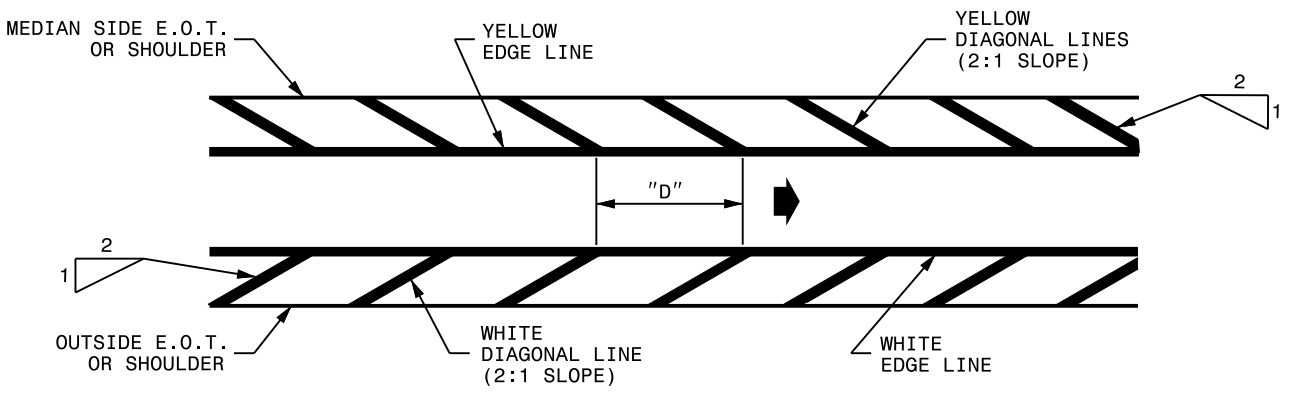
CHANNELIZING ISLAND SEPARATING TRAFFIC IN SAME DIRECTION



MEDIAN ISLAND SEPARATING TRAFFIC IN OPPOSING DIRECTIONS



EDGE OF PAVEMENT OR SHOULDER ISLAND



GENERAL NOTES:

- 1- "D" = SPACING OF DIAGONAL LINES (TYPICALLY EQUAL IN FEET TO THE POSTED SPEED LIMIT).
- 2- INCREASE SPACING OF DIAGONALS TO 200' OR MORE ON INTERSTATE ROADWAYS.
- 3- ADJUST SPACING OF DIAGONALS DEPENDING ON THE LENGTH OF THE ISLAND. SPACING MAY BE ADJUSTED AS DETERMINED BY THE ENGINEER.

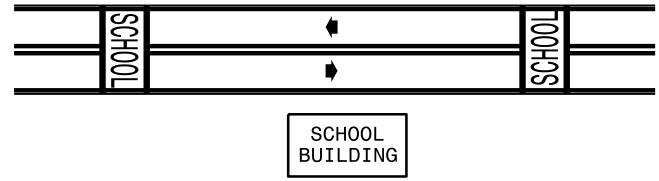
LEGEND	
E.O.T.=	EDGE OF TRAVEL
➔	DIRECTION OF TRAFFIC FLOW

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RALEIGH, N.C.

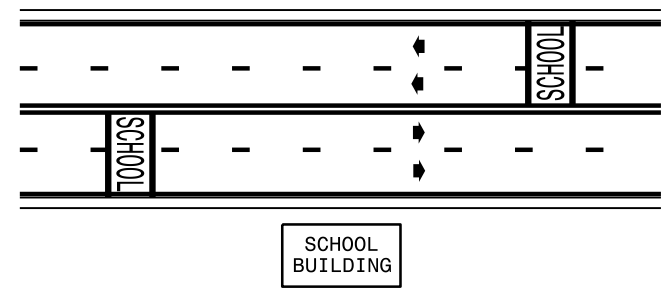
1-18

ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
PAINTED ISLANDS

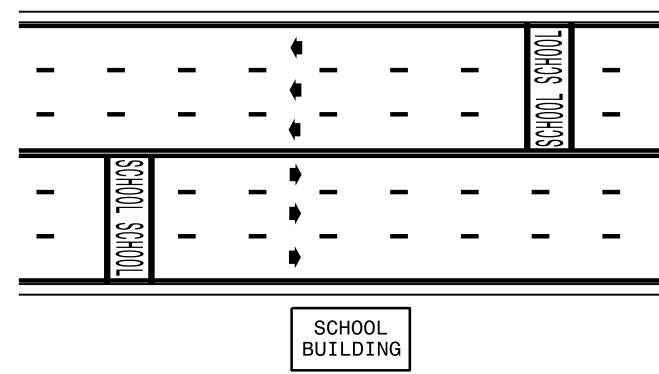
TWO-LANE, TWO-WAY ROADWAY



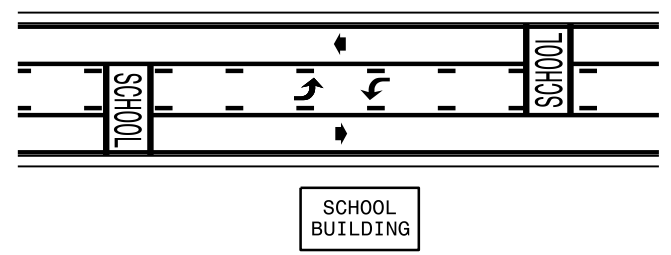
FOUR-LANE ROADWAY (DIVIDED AND UNDIVIDED)



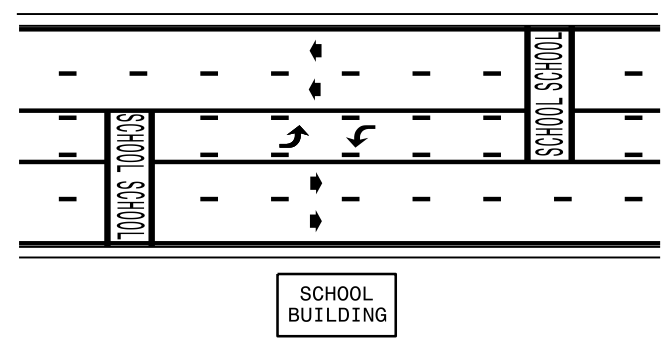
SIX-LANE ROADWAY (DIVIDED AND UNDIVIDED)



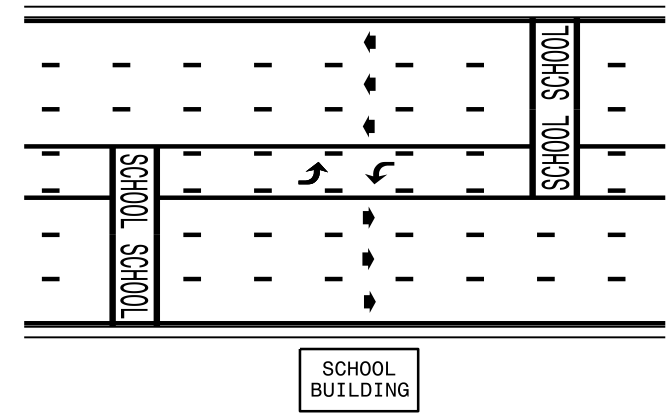
TWO-LANE, TWO-WAY ROADWAY WITH TWO-WAY LEFT TURN LANE



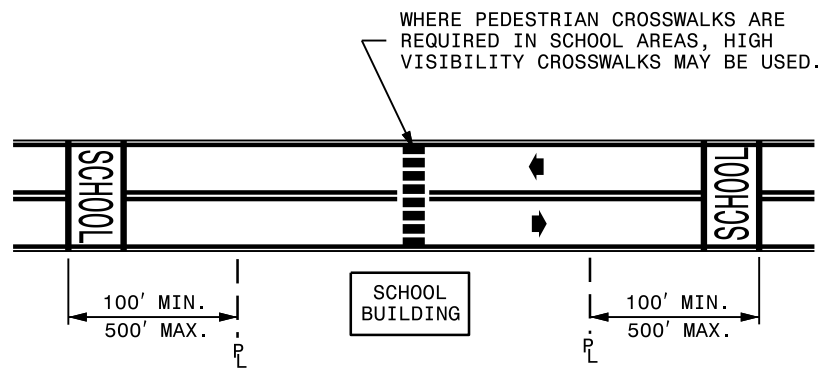
FOUR-LANE ROADWAY WITH TWO-WAY LEFT TURN LANE



SIX-LANE ROADWAY WITH TWO-WAY LEFT TURN LANE



TYPICAL MARKING PLACEMENT



WHERE PEDESTRIAN CROSSWALKS ARE REQUIRED IN SCHOOL AREAS, HIGH VISIBILITY CROSSWALKS MAY BE USED.

GENERAL NOTES:

- 1- SINGLE LANE WIDTH "SCHOOL" WORD MESSAGES CAN BE USED IN EACH APPROACH LANE.
- 2- EXTEND 24" WHITE TRANSVERSE LINES ACROSS ALL APPROACH LANES TO THE SCHOOL AREA. EXTEND 24" WHITE TRANSVERSE LINES ACROSS ENTIRE ROAD WHEN TWO-LANE WIDTH MESSAGES ARE USED ON TWO-LANE, TWO WAY ROADWAYS.
- 3- REFER TO ROADWAY STANDARD DRAWING 1205.08 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

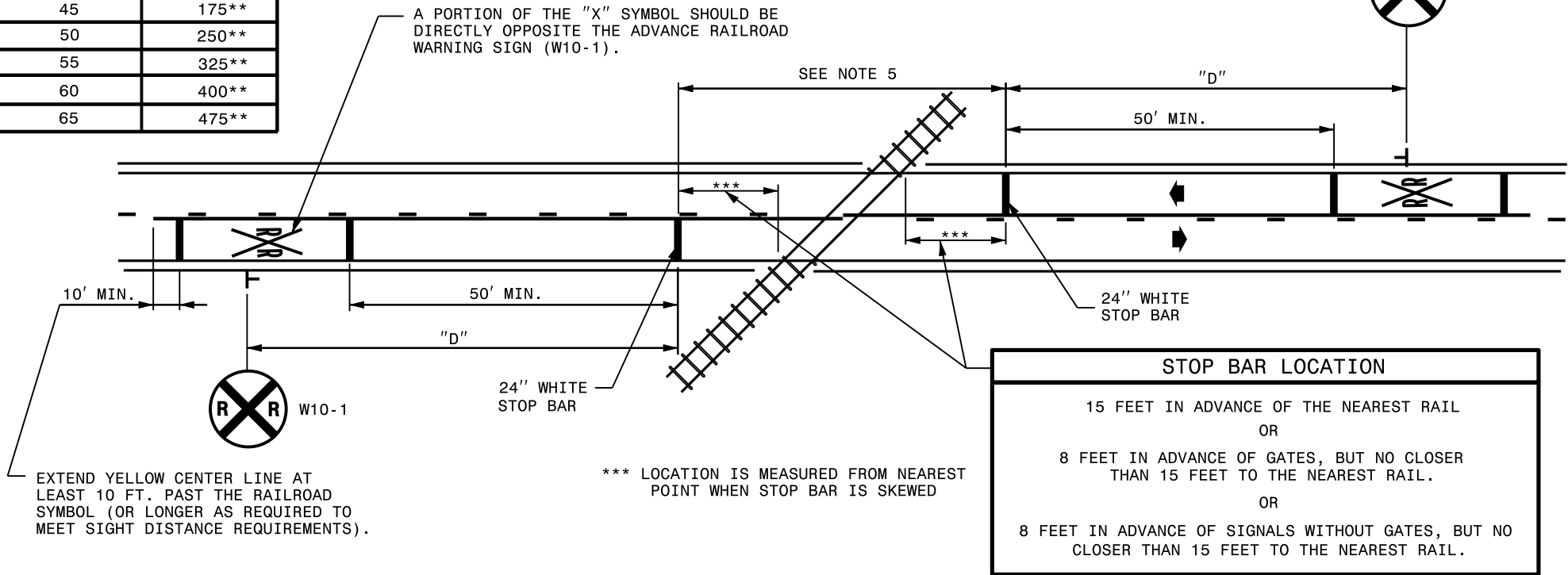
LEGEND	
	PROPERTY LINE
	DIRECTION OF TRAFFIC FLOW
	PAVEMENT MARKING SYMBOLS & CHARACTERS

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ADVANCE WARNING SIGN PLACEMENT DISTANCE	
POSTED OR 85 PERCENTILE SPEED (MPH)	"D" (FEET)
≤ 35	100**
40	125**
45	175**
50	250**
55	325**
60	400**
65	475**

* ADVANCE PAVEMENT MARKINGS SHALL NOT REQUIRED WHEN THE POSTED OR STATUTORY HIGHWAY SPEED IS LESS THAN 40 MPH OR IN URBAN AREAS IF AN ENGINEERING STUDY INDICATES THAT OTHER INSTALLED DEVICES PROVIDE SUITABLE WARNING AND CONTROL. REFER TO PART 8 OF THE MUTCD FOR ADDITIONAL GUIDANCE.

** THE PLACEMENT LOCATION IS DEPENDENT ON SITE CONDITIONS TO PROVIDE AN ADEQUATE ADVANCE WARNING FOR THE DRIVER. PLACEMENT MAY NEED TO BE ADJUSTED FOR A SIGN LEGIBILITY DISTANCE OF 250 FT.

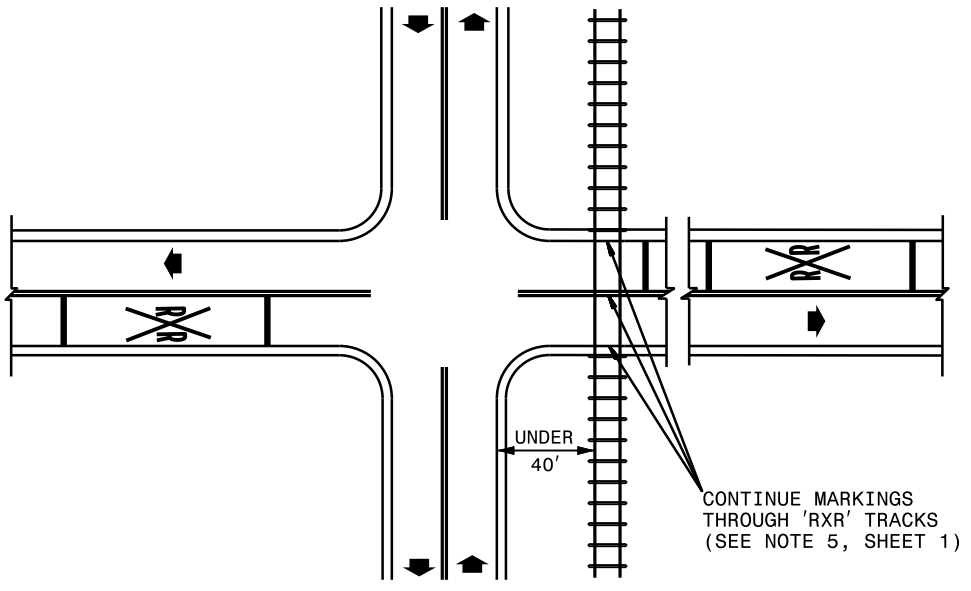


GENERAL NOTES:

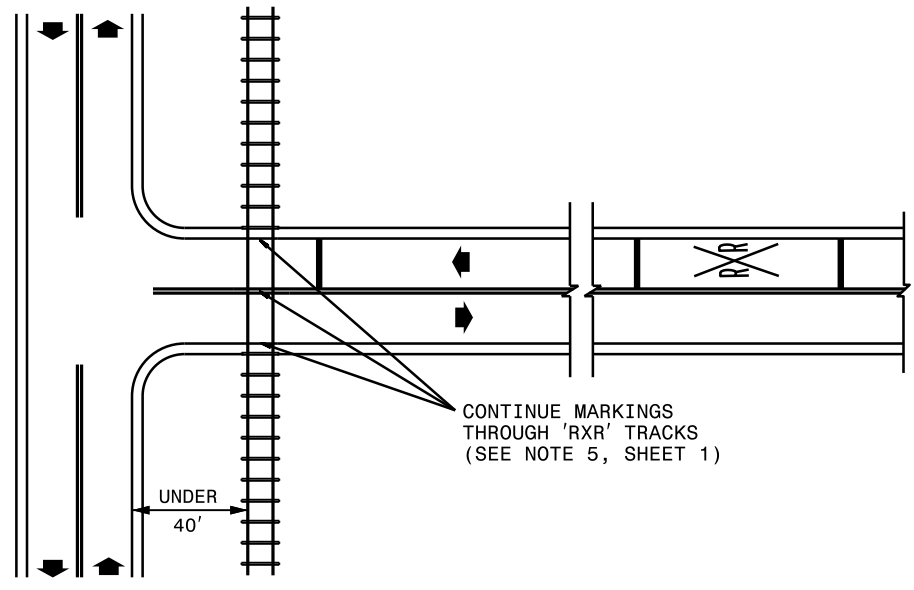
- 1- IDENTICAL MARKINGS SHALL BE PLACED IN EACH APPROACH LANE ON ALL PAVED APPROACHES TO GRADE CROSSINGS WHERE SIGNALS OR AUTOMATIC GATES ARE LOCATED, AND AT ALL OTHER GRADE CROSSINGS WHERE THE POSTED OR STATUTORY HIGHWAY SPEED IS 40 MPH OR GREATER.
- 2- EXTEND "RXR" SYMBOL MARKINGS 6 INCHES FROM THE EDGE OF PAVEMENT TO 8 INCHES FROM THE CENTER LINE OF THE ROADWAY OR POSITION THE MARKINGS TO ACCOMMODATE FUTURE PLACEMENT OF EDGE LINE AND CENTER LINE PAVEMENT MARKINGS WHERE CENTER LINES OR EDGE LINES DO NOT EXIST.
- 3- POSITION ALL TRANSVERSE BANDS AND STOP BARS PERPENDICULAR TO THE CENTERLINE OF THE ROADWAY.
- 4- CENTER THE "RXR" SYMBOL ACROSS THE ENTIRE ROADWAY FOR ROADWAYS THAT ARE LESS THAN 16 FEET IN WIDTH.
- 5- CENTER AND EDGELINE MARKINGS SHALL EXTEND FROM STOP BAR TO STOP BAR AS INDICATED ABOVE.
- 6- REFER TO ROADWAY STANDARD DRAWING 1205.08 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.
- 7- REFER TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" OR SIGNING PLANS FOR ADDITIONAL WARNING SIGNS.

LEGEND	
	DIRECTION OF TRAFFIC FLOW
	PAVEMENT MARKING SYMBOLS
	RAILROAD TRACKS
	STATIONARY SIGN

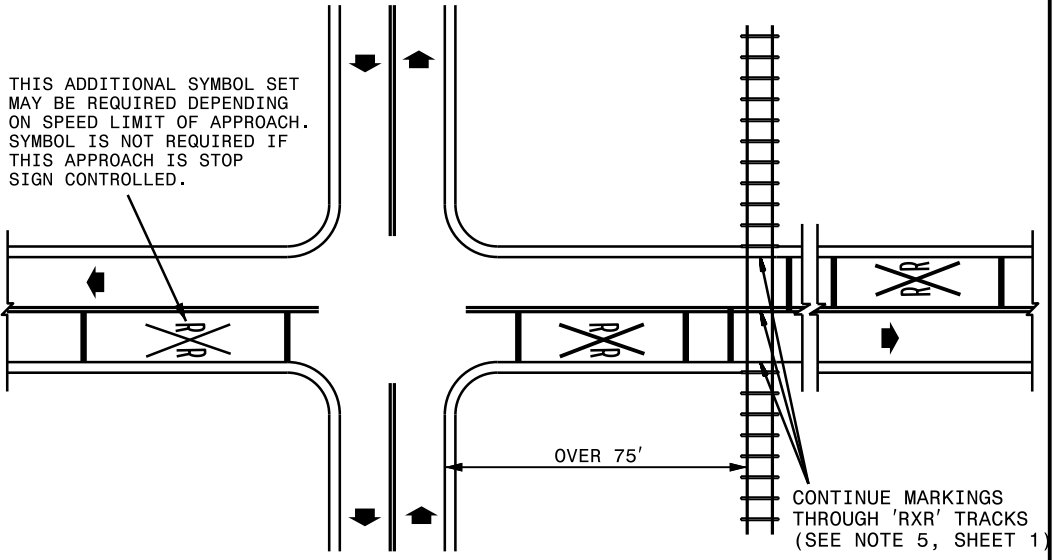
RAILROAD LESS THAN 40 FT. FROM INTERSECTION



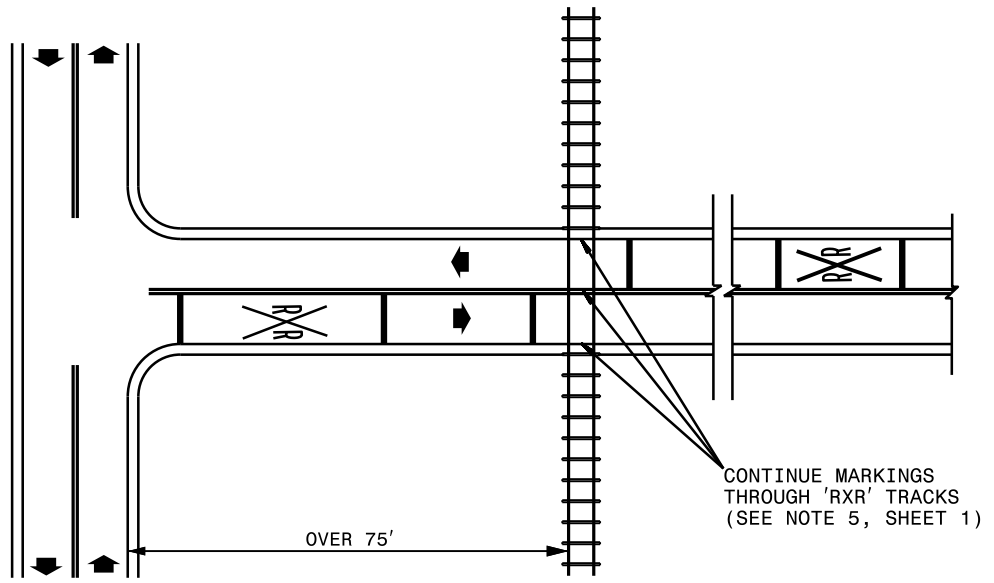
RAILROAD LESS THAN 40 FT. FROM INTERSECTION



RAILROAD MORE THAN 75 FT. FROM INTERSECTION



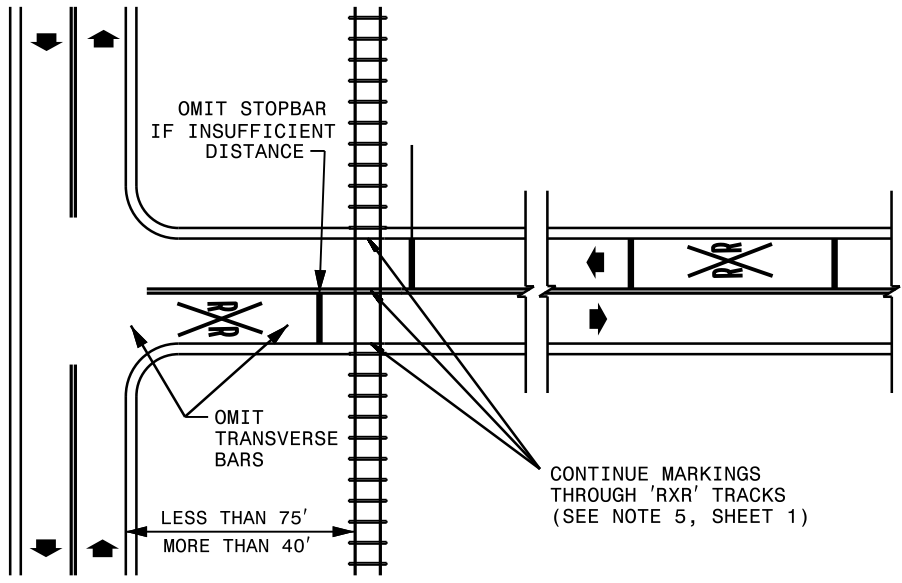
RAILROAD MORE THAN 75 FT. FROM INTERSECTION



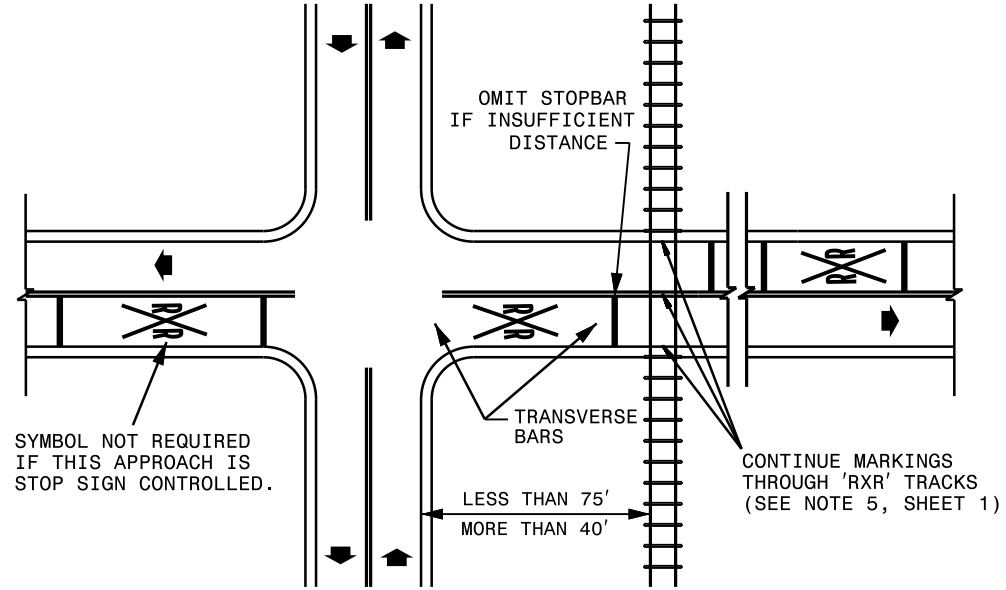
1-18 STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR PAVEMENT MARKINGS RAILROAD CROSSINGS

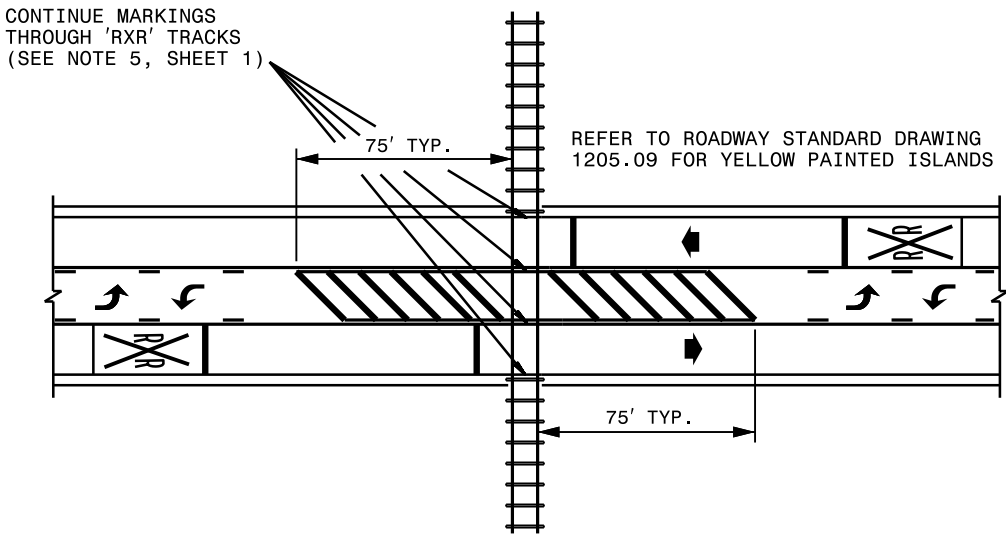
RAILROAD 40 TO 75 FT. FROM INTERSECTION



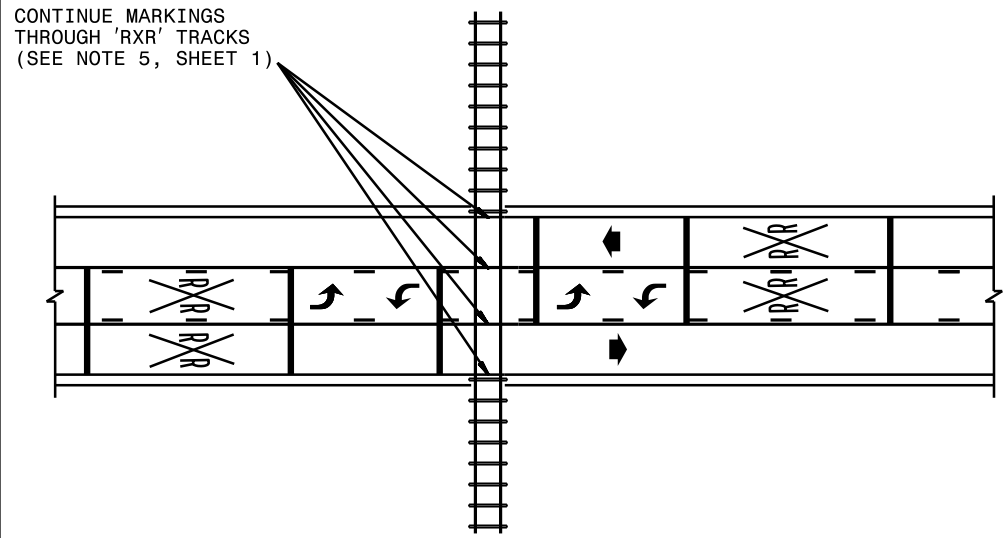
RAILROAD 40 TO 75 FT. FROM INTERSECTION



3-LANE SECTION
CENTER TURN-LANE DISCONTINUED ACROSS TRACKS



3-LANE SECTION
CENTER TURN-LANE CONTINUED ACROSS TRACKS



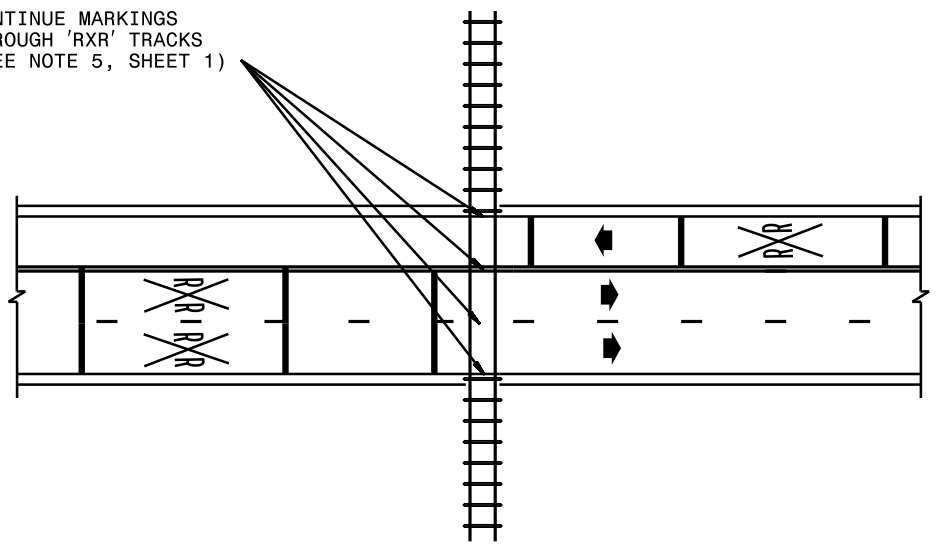
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DIVISION OF HIGHWAYS
RALEIGH, N.C.

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ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
RAILROAD CROSSINGS

**3-LANE, 2-WAY SECTION
(NO CENTER TURN-LANE)**

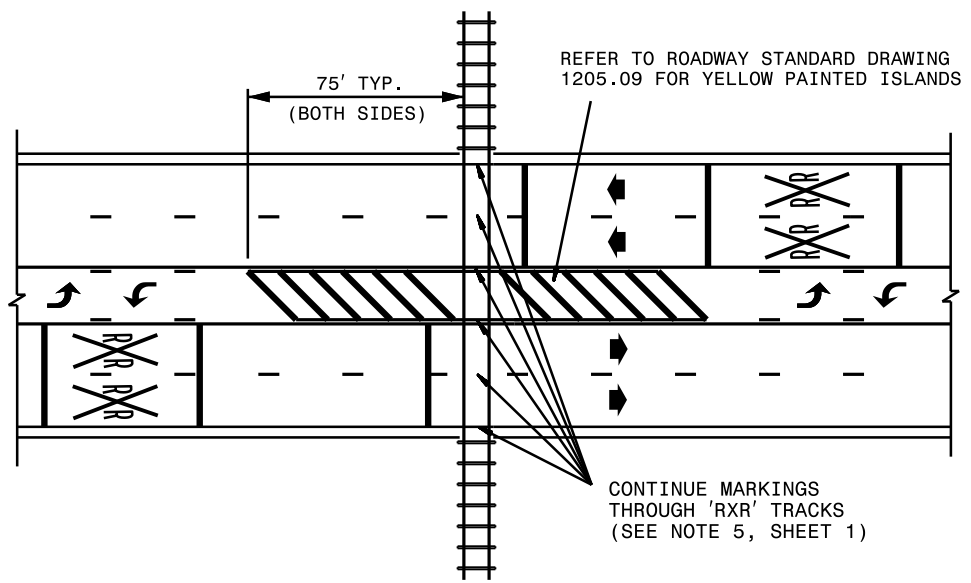
CONTINUE MARKINGS
THROUGH 'RXR' TRACKS
(SEE NOTE 5, SHEET 1)



**5-LANE SECTION
CENTER TURN-LANE DISCONTINUED ACROSS TRACKS**

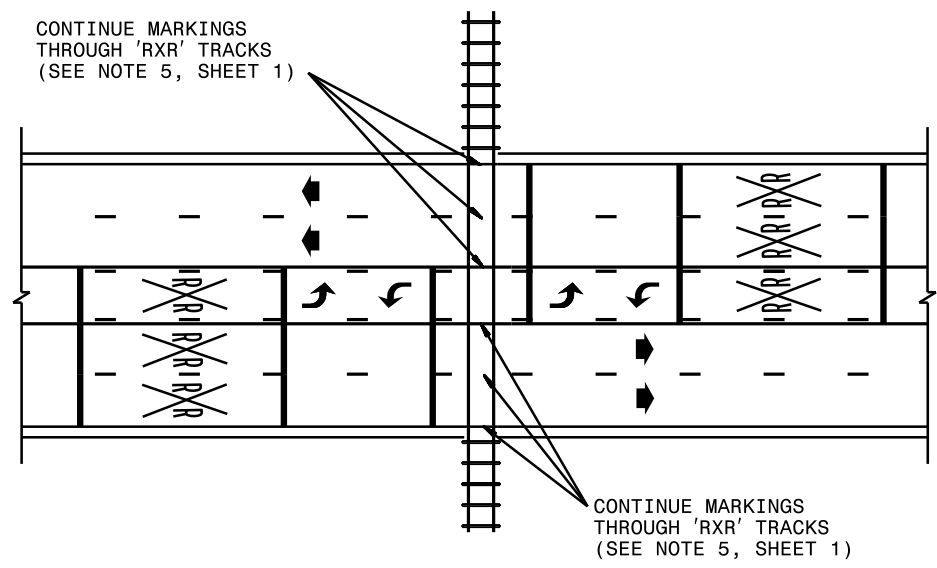
75' TYP.
(BOTH SIDES)

REFER TO ROADWAY STANDARD DRAWING
1205.09 FOR YELLOW PAINTED ISLANDS



**5-LANE SECTION
CENTER TURN-LANE CONTINUED ACROSS TRACKS**

CONTINUE MARKINGS
THROUGH 'RXR' TRACKS
(SEE NOTE 5, SHEET 1)

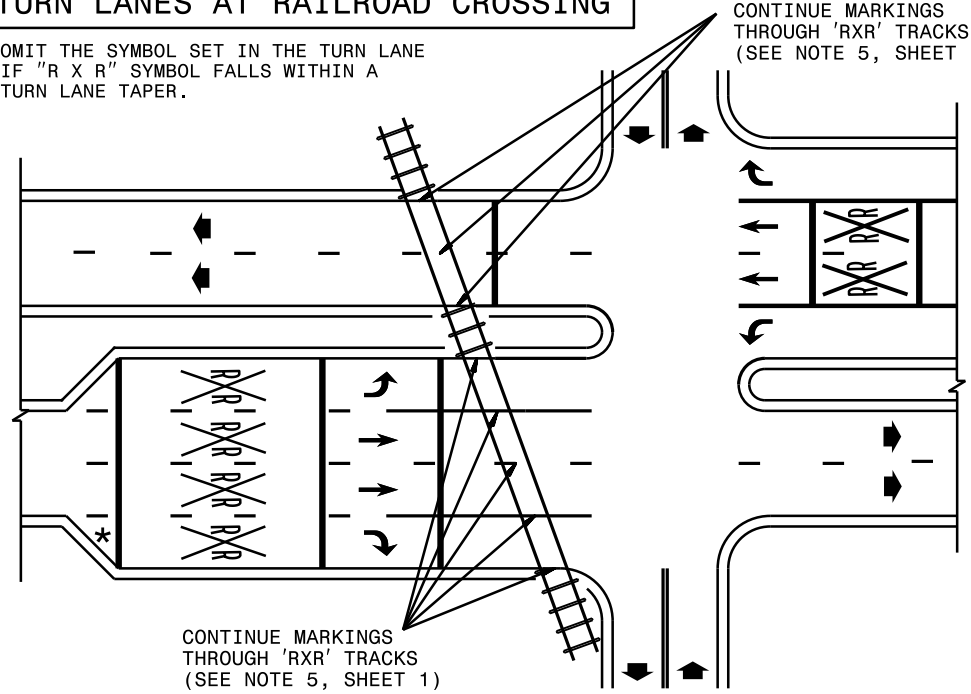


CONTINUE MARKINGS
THROUGH 'RXR' TRACKS
(SEE NOTE 5, SHEET 1)

TURN LANES AT RAILROAD CROSSING

* OMIT THE SYMBOL SET IN THE TURN LANE
IF "R X R" SYMBOL FALLS WITHIN A
TURN LANE TAPER.

CONTINUE MARKINGS
THROUGH 'RXR' TRACKS
(SEE NOTE 5, SHEET 1)

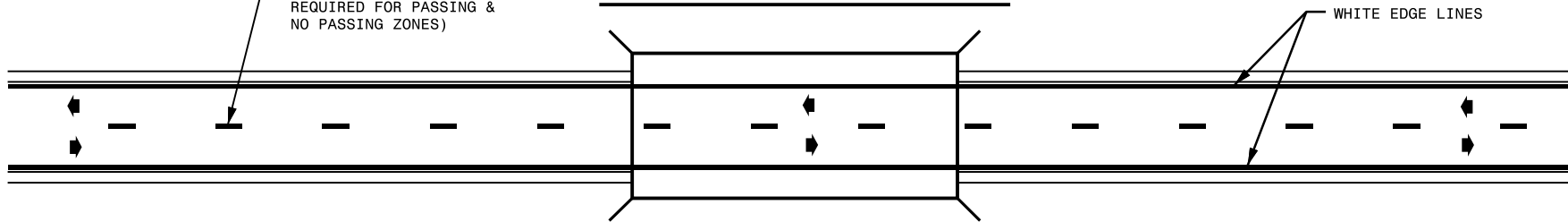


CONTINUE MARKINGS
THROUGH 'RXR' TRACKS
(SEE NOTE 5, SHEET 1)

STANDARD BRIDGE

YELLOW CENTER LINES
(DOUBLE OR SINGLE AS
REQUIRED FOR PASSING &
NO PASSING ZONES)

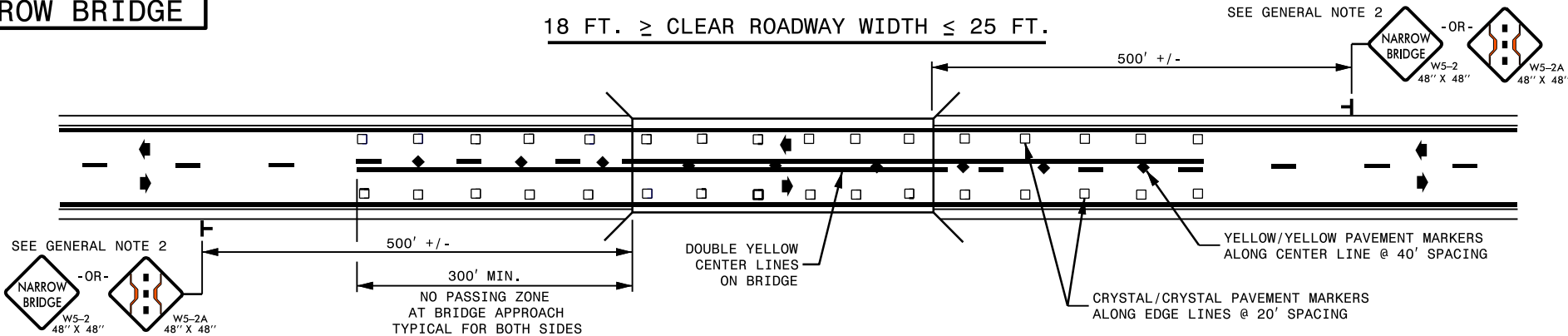
CLEAR ROADWAY WIDTH > 25 FT.



NARROW BRIDGE

18 FT. ≥ CLEAR ROADWAY WIDTH ≤ 25 FT.

SEE GENERAL NOTE 2

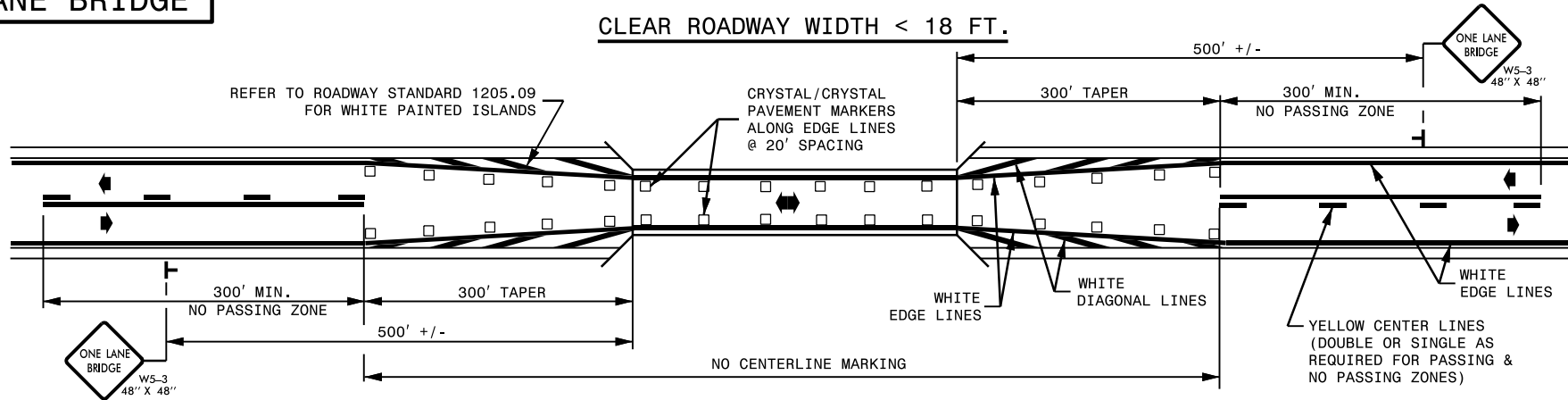


ONE-LANE BRIDGE

CLEAR ROADWAY WIDTH < 18 FT.

REFER TO ROADWAY STANDARD 1205.09
FOR WHITE PAINTED ISLANDS

CRYSTAL/CRYSTAL
PAVEMENT MARKERS
ALONG EDGE LINES
@ 20' SPACING



- GENERAL NOTES:
- 1- NO PASSING ZONES SHOWN ARE MINIMUMS. APPLY MINIMUM PASSING AND STOPPING SIGHT DISTANCES AS DETERMINED BY THE ENGINEER.
 - 2- FOR BRIDGES 18 TO 25 FEET WIDE, SIGNS MUST BE USED WHEN THE CLEAR ROADWAY WIDTH IS LESS THAN THE WIDTH OF THE APPROACH PAVEMENT PLUS 2 FEET.

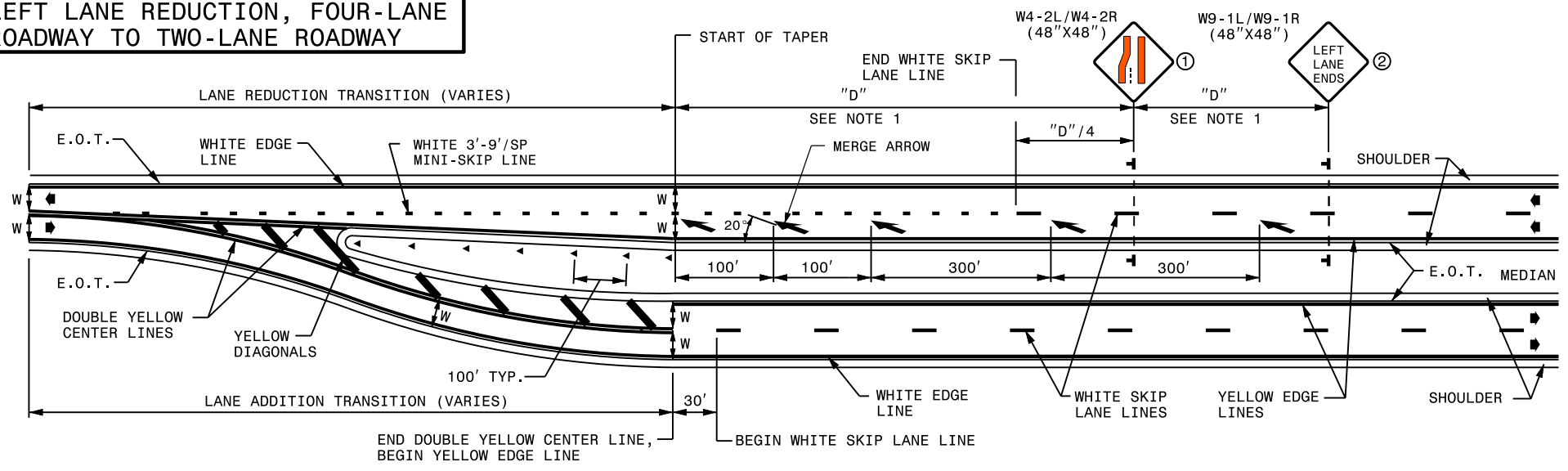
LEGEND	
↔	DIRECTION OF TRAFFIC FLOW
◆	YELLOW/YELLOW PAVEMENT MARKER
⊥	STATIONARY SIGN
□	CRYSTAL/CRYSTAL PAVEMENT MARKER

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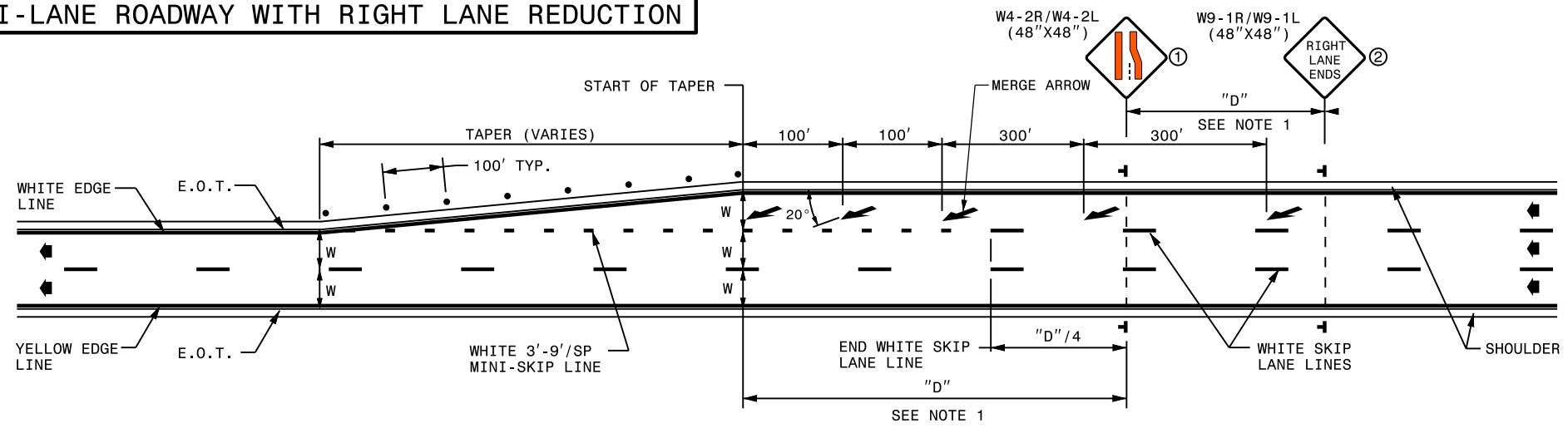
1-18

ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
BRIDGES

LEFT LANE REDUCTION, FOUR-LANE ROADWAY TO TWO-LANE ROADWAY



MULTI-LANE ROADWAY WITH RIGHT LANE REDUCTION



- GENERAL NOTES:**
- 1- REFER TO SIGNING PLANS OR TABLE "A" FOR ADVANCE WARNING SIGN PLACEMENT DISTANCE.
 - 2- REFER TO ROADWAY STANDARD DRAWINGS 1205.01 AND 1205.08 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

LEGEND	
W = WIDTH OF TRAVEL LANE	—+— STATIONARY SIGN
➔ DIRECTION OF TRAFFIC FLOW	● CRYSTAL FLEXIBLE DELINEATOR
↘ PAVEMENT MARKING SYMBOLS	◀ YELLOW FLEXIBLE DELINEATOR

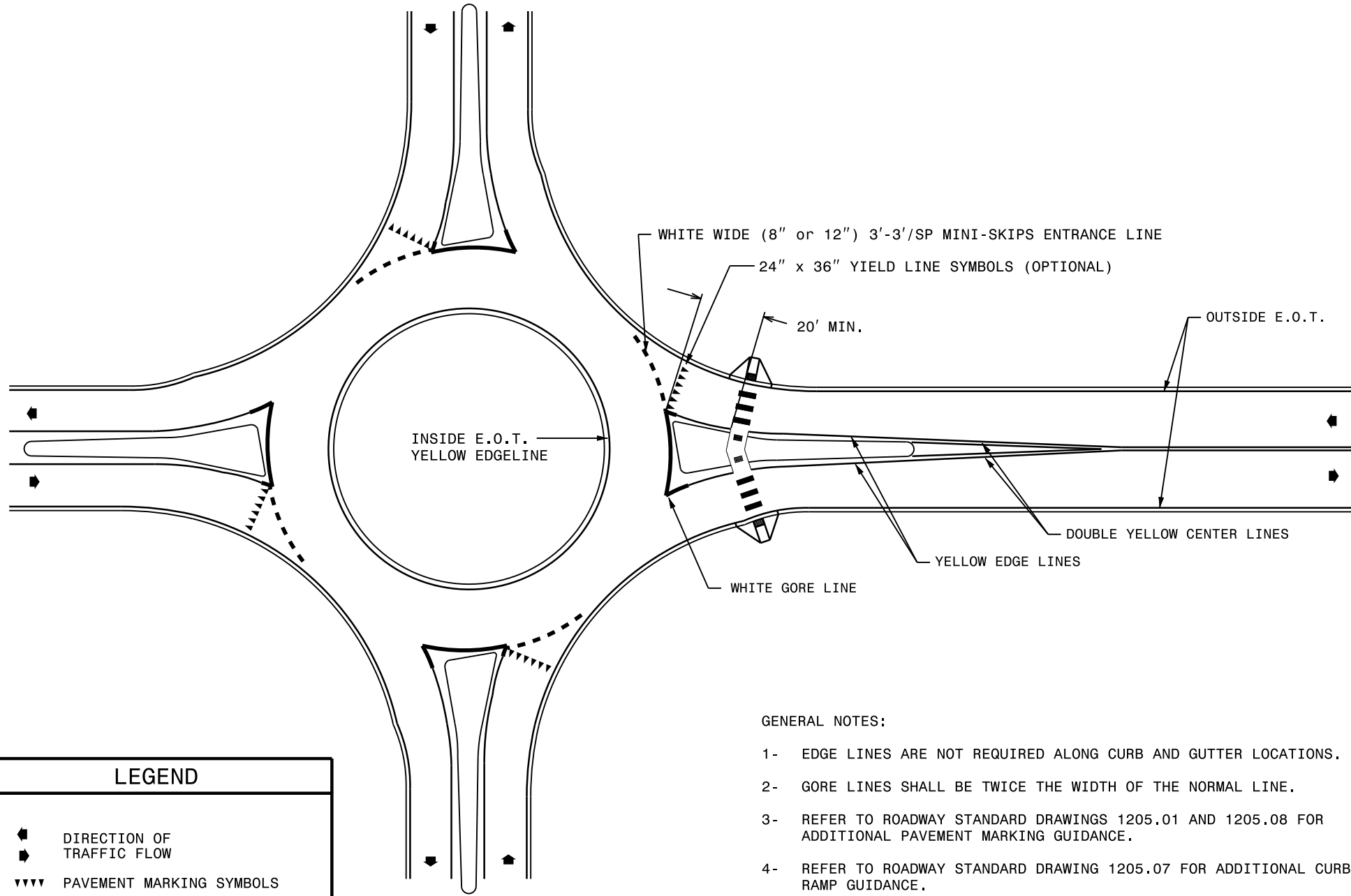
TABLE "A"	
ADVANCE WARNING SIGN PLACEMENT DISTANCE	
POSTED OR 85 PERCENTILE SPEED (MPH)	"D" (FEET)
35	565
40	670
45	775
50	885
55	990
60	1,100
65	1,200
70	1,250
75	1,350

- DISTANCES SHOWN ARE FOR LEVEL ROADWAYS, MAKE CORRECTIONS FOR GRADES.

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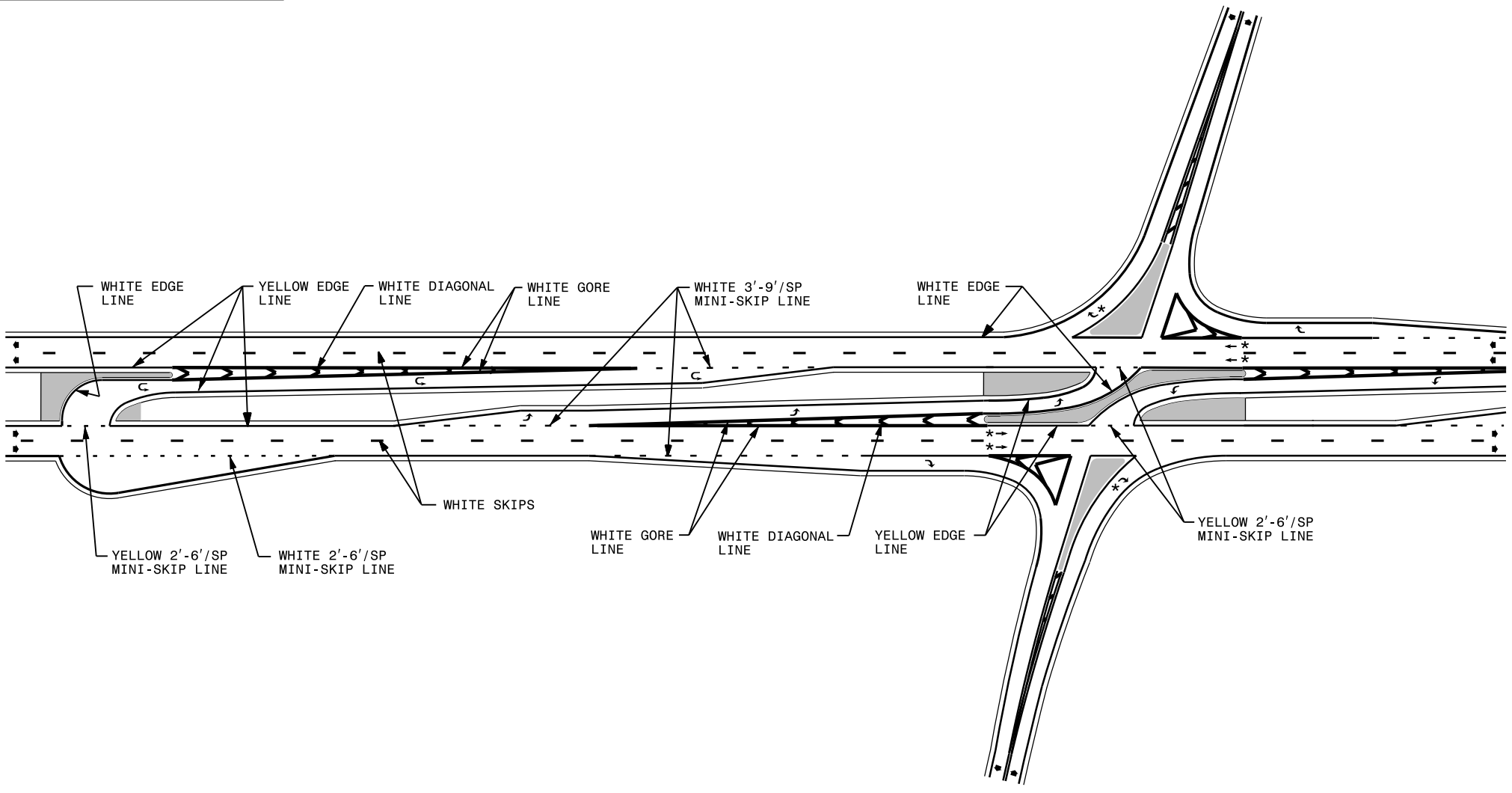
ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
 LANE REDUCTIONS



LEGEND	
◆	DIRECTION OF TRAFFIC FLOW
▼▼▼▼	PAVEMENT MARKING SYMBOLS

GENERAL NOTES:

- 1- EDGE LINES ARE NOT REQUIRED ALONG CURB AND GUTTER LOCATIONS.
- 2- GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.
- 3- REFER TO ROADWAY STANDARD DRAWINGS 1205.01 AND 1205.08 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.
- 4- REFER TO ROADWAY STANDARD DRAWING 1205.07 FOR ADDITIONAL CURB RAMP GUIDANCE.



GENERAL NOTES:

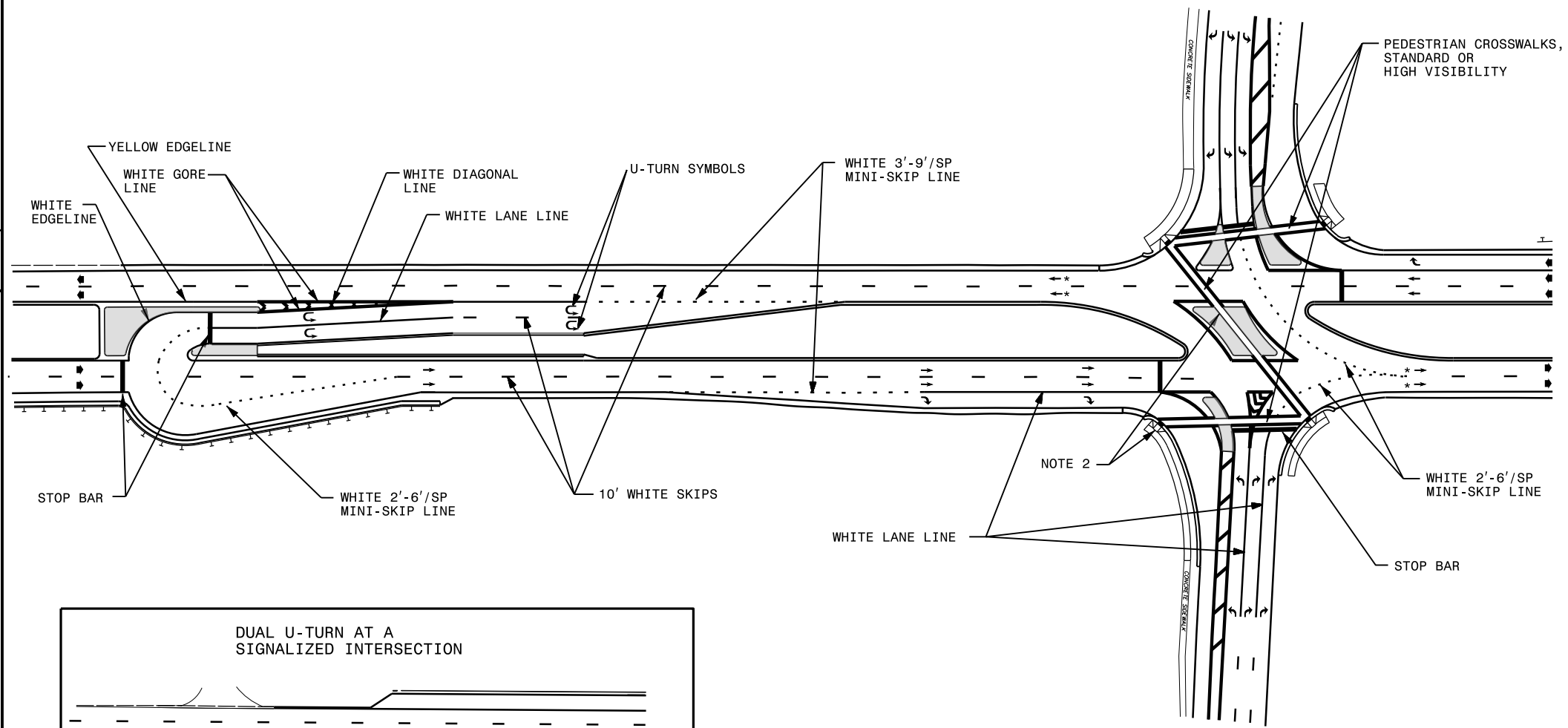
1- USE THE GUIDANCE SHOWN ABOVE IN CONJUNCTION WITH THE INTERSECTION GUIDANCE SHOWN ON ROADWAY STANDARD DRAWING 1205.04.

LEGEND	
	DIRECTION OF TRAFFIC FLOW
	PAVEMENT MARKING SYMBOLS
*	OPTIONAL

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ROADWAY STANDARD DRAWING FOR PAVEMENT MARKINGS SUPERSTREETS

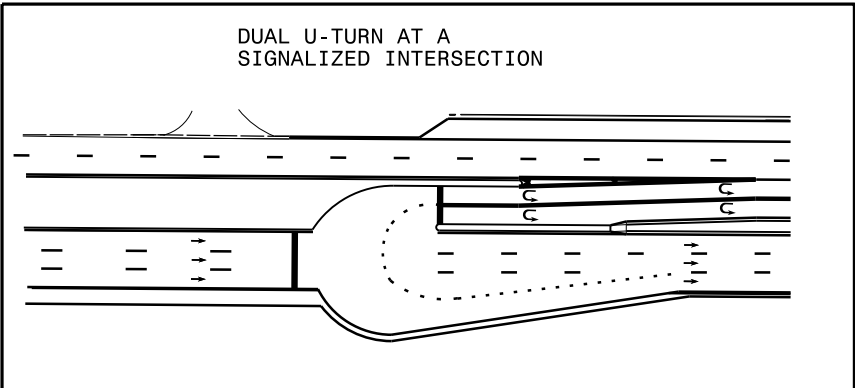
SIGNALIZED SUPERSTREET WITH LEFT-OUT AND DUAL U-TURN



YELLOW EDGELINE
 WHITE GORE LINE
 WHITE EDGELINE
 WHITE DIAGONAL LINE
 WHITE LANE LINE
 U-TURN SYMBOLS
 WHITE 3'-9"/SP MINI-SKIP LINE
 STOP BAR
 WHITE 2'-6"/SP MINI-SKIP LINE
 10' WHITE SKIPS

NOTE 2

PEDESTRIAN CROSSWALKS,
 STANDARD OR
 HIGH VISIBILITY



DUAL U-TURN AT A
 SIGNALIZED INTERSECTION

GENERAL NOTES:

- 1- USE THE GUIDANCE SHOWN ABOVE IN CONJUNCTION WITH THE INTERSECTION GUIDANCE SHOWN ON ROADWAY STANDARD DRAWING 1205.04.
- 2- CURB RAMPS AND MEDIAN ISLANDS SHALL BE CONSTRUCTED USING THE PAVEMENT MARKING AND ROADWAY PLANS.

LEGEND	
	DIRECTION OF TRAFFIC FLOW
	PAVEMENT MARKING SYMBOLS
	CURB RAMPS WITH DETECTABLE WARNING DOMES
*	OPTIONAL

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ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
 SUPERSTREETS

1-18

SHEET 2 OF 2
1205.15

GENERAL NOTES:

- 1- MARKERS ARE GENERALLY NOT REQUIRED ALONG EDGE LINES EXCEPT IF DESIGNATED IN THE PLANS OR DIRECTED BY THE ENGINEER. WHEN THEY ARE REQUIRED, SPACE THEM ON 20 FT. CENTERS, AND OFFSET 2 INCHES FROM THE EDGE LINE ON THE TRAFFIC SIDE.
- 2- PLACE CRYSTAL/RED MARKERS AT INTERSECTIONS AND INTERCHANGES WHERE WRONG-WAY MOVEMENTS ARE POSSIBLE. POSITION THE RED SIDE OF THE MARKER TO FACE "WRONG-WAY" TRAFFIC. WHEN USED, PLACE CRYSTAL/RED MARKERS ALONG THE ENTIRE LENGTH OF THE PROJECT.
- 3- DO NOT PLACE PAVEMENT MARKERS CLOSER THAN 3 INCHES TO A PAVEMENT CONSTRUCTION JOINT (AS FEASIBLE), EXCEPT WHEN PLACED BETWEEN DOUBLE YELLOW CENTER LINES, AND ALONG YELLOW SKIP LINES ON TWO-LANE, TWO-WAY ROADWAYS WHERE PASSING IS ALLOWED IN BOTH DIRECTIONS.
- 4- DO NOT PLACE PAVEMENT MARKERS DIRECTLY ON PAVEMENT MARKING LINES.
- 5- PLACE PAVEMENT MARKERS USED IN CONJUNCTION WITH DOUBLE YELLOW CENTER LINES MID-WAY BETWEEN THE LINES. PROVIDE A GAP BETWEEN THE LINES AND THE MARKER TO REDUCE OVERSPRAYING THE MARKER DURING REPAINTING OPERATIONS.
- 6- MARKERS ARE NOT REQUIRED ALONG MINI-SKIP LINES IN TAPERS.

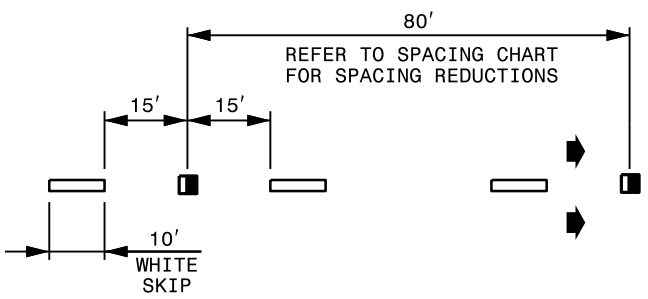
PAVEMENT MARKER SPACING CHART	
TYPE OF PAVEMENT MARKING	TYPICAL SPACING (FT)
SKIP LINES AND CENTER LINES ALONG THRU LANES- ALONG TANGENT SECTIONS AND HORIZONTAL CURVES LESS THAN 6° HORIZONTAL CURVES ≥ 6°	80 40
TURN LANES- MINI-SKIP LINES SKIP LINES SOLID LINES CENTER LINES	24 40 20 40
MINI-SKIP LINES AT LANE DROP APPROACHES	24
TWO-WAY RAMP CENTER LINES	40
GORE LINES	20
PAINTED ISLANDS- WHITE YELLOW	20 40
RAISED MEDIAN ISLANDS	40
WRONG WAY RAMP ARROW	5
TAPERS	40
NARROW BRIDGES- EDGE LINE CENTER LINE	20 40
ONE LANE BRIDGES- EDGE LINE	20
WORK ZONE APPLICATIONS	
2-LANE, 2-WAY ON-SITE DIVERSION	20 FT. FOR CENTER LINE
ALL OTHER DIVERSIONS	1/2 NORMAL SPACING

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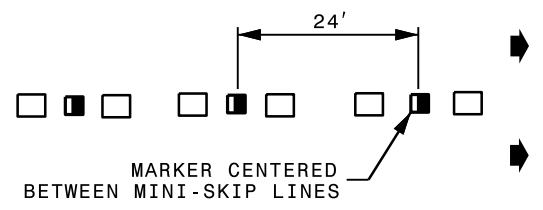
1-18

ROADWAY STANDARD DRAWING FOR
RAISED PAVEMENT MARKERS
 INSTALLATION SPACING

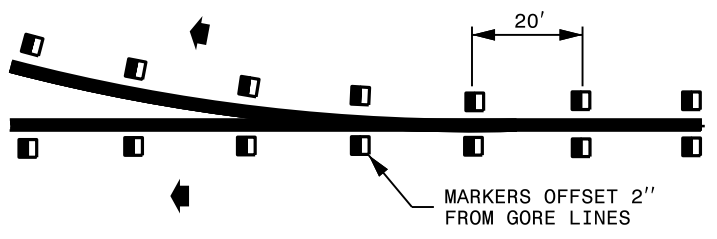
10'-30'/SP SKIP LINE



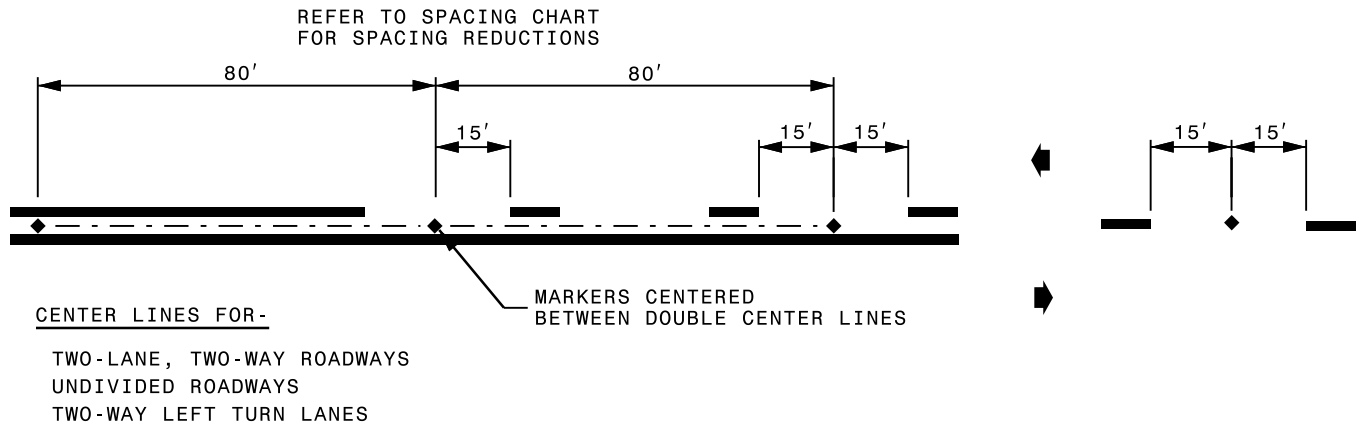
3'-9'/SP MINI-SKIP LINE



GORE LINES

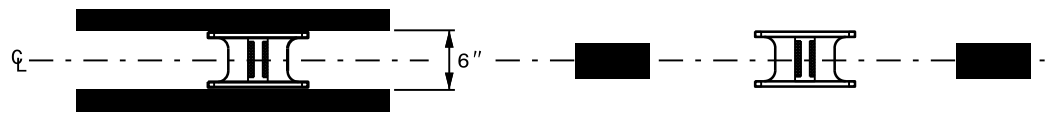


YELLOW CENTER LINES

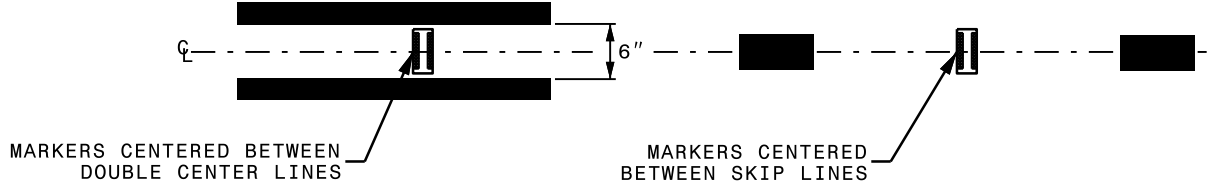


DETAIL OF PAVEMENT MARKER PLACEMENT

SNOWPLOWABLE RAISED PAVEMENT MARKERS



RAISED REFLECTIVE PAVEMENT MARKERS



LEGEND

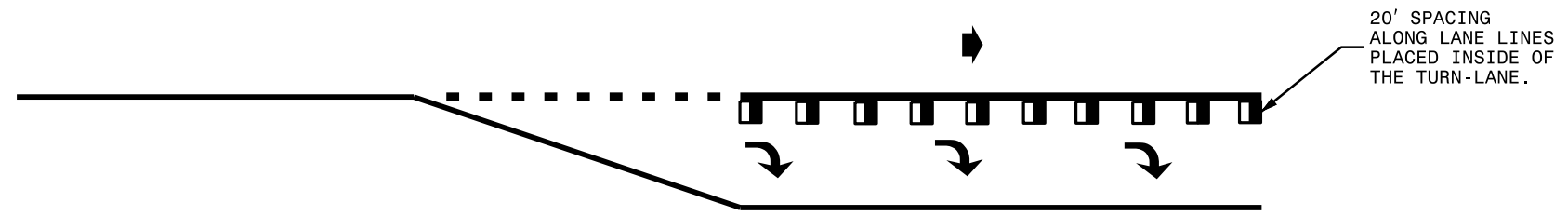
- CRYSTAL/RED PAVEMENT MARKER
- ◆ YELLOW/YELLOW PAVEMENT MARKER
- ➔ DIRECTION OF TRAFFIC FLOW

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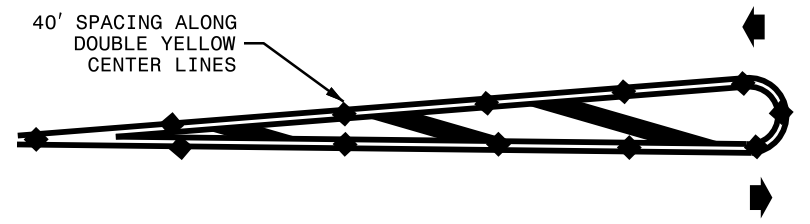
1-18

ROADWAY STANDARD DRAWING FOR
RAISED PAVEMENT MARKERS
INSTALLATION SPACING

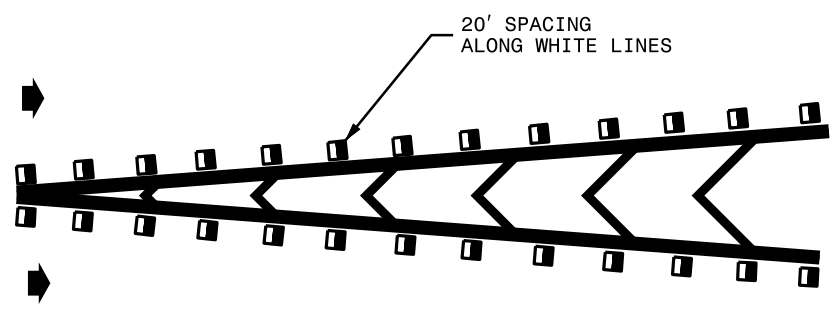
AUXILIARY TURN LANES



YELLOW PAINTED ISLANDS



WHITE PAINTED ISLANDS



LEGEND	
	DIRECTION OF TRAFFIC FLOW
	CRYSTAL/RED PAVEMENT MARKER
	YELLOW/YELLOW PAVEMENT MARKER
	PAVEMENT MARKING SYMBOL

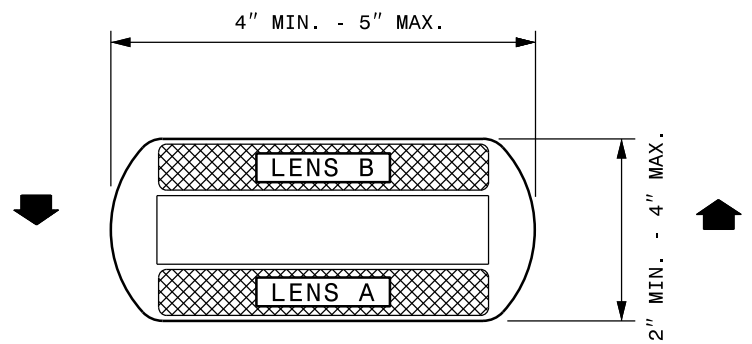
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NORTH CAROLINA
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1-18

ROADWAY STANDARD DRAWING FOR
RAISED PAVEMENT MARKERS
INSTALLATION SPACING

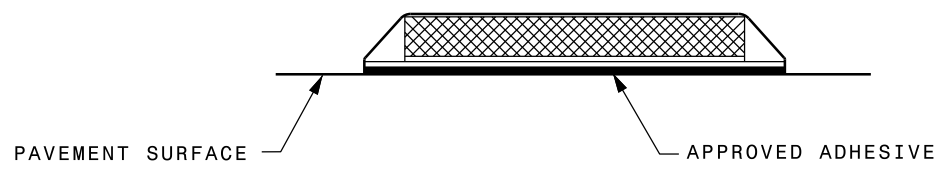
TYPICAL PAVEMENT MARKER

TOP VIEW

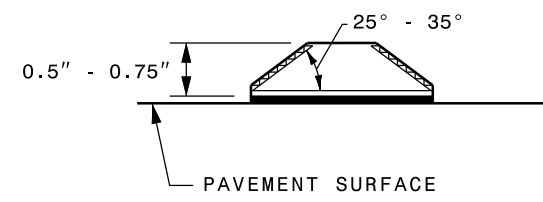


LENS A	LENS B
YELLOW CRYSTAL CRYSTAL	YELLOW RED CRYSTAL

FRONT VIEW



SIDE VIEW



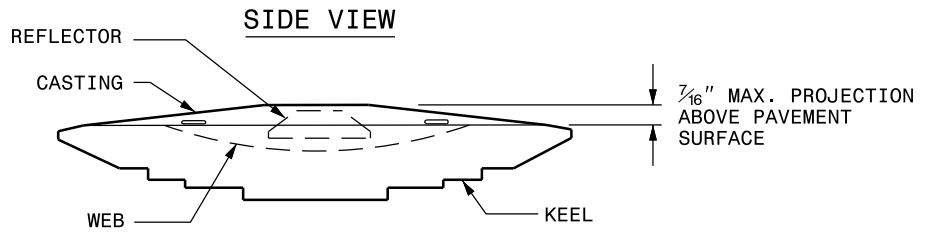
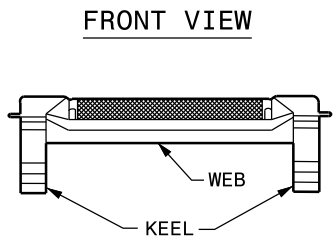
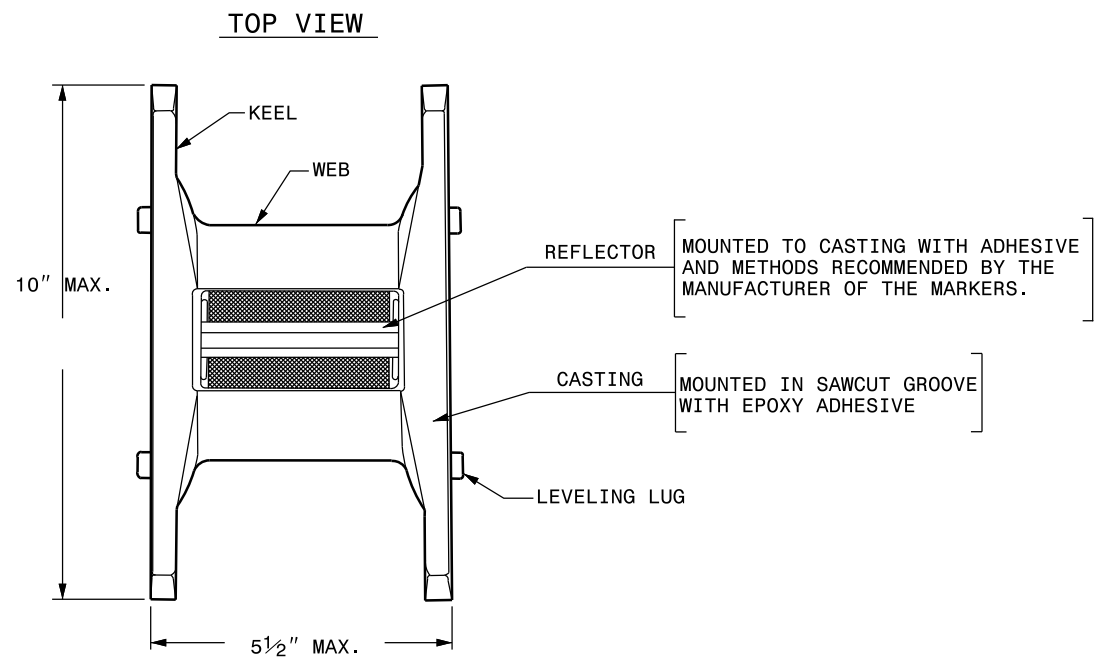
GENERAL NOTES:

- 1- USE A MINIMUM OF 2 SQUARE INCHES FOR THE AREA OF EACH REFLECTIVE LENS.
- 2- FOR A COMPLETE LISTING OF PAVEMENT MARKERS AND ADHESIVES ACCEPTABLE FOR USE IN NORTH CAROLINA CONTACT THE NCDOT SIGNING AND DELINEATION UNIT.

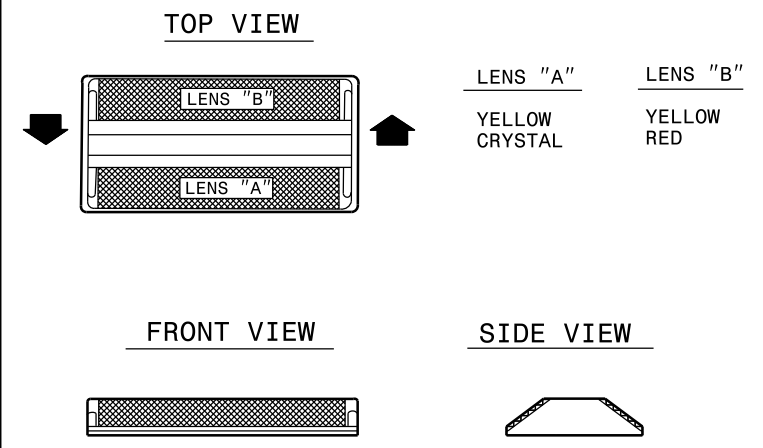
LEGEND

DIRECTION OF TRAFFIC FLOW

TYPICAL PAVEMENT MARKER



REFLECTOR



GENERAL NOTES:

- 1- USE A MINIMUM OF 1.44+/- SQ. INCH AREA FOR EACH REFLECTIVE LENS.
- 2- SAWCUT GROOVES TO DIMENSIONS PROVIDED BY THE MANUFACTURER.
- 3- CONTACT ALL LEVELING LUGS TO THE PAVEMENT SURFACE.
- 4- REFLECTOR DIMENSIONS CAN VARY, BUT DESIGNED TO FIT IN THE CASTING AND PROVIDE THE REQUIRED REFLECTIVITY.

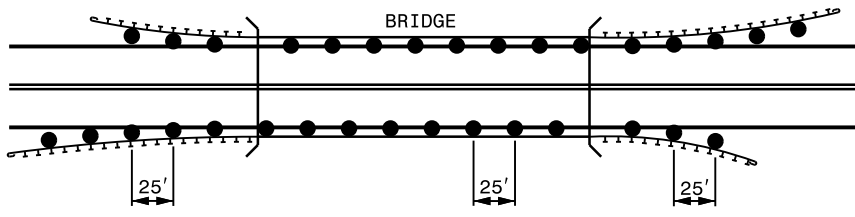


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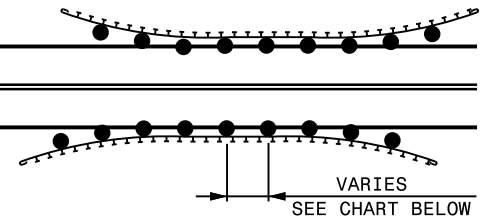
ROADWAY STANDARD DRAWING FOR
RAISED PAVEMENT MARKERS
 SNOWPLOWABLE

**UNDIVIDED ROADWAYS,
TWO-LANE AND MULTI-LANE**

**GUARDRAIL/BARRIER
AT BRIDGES**

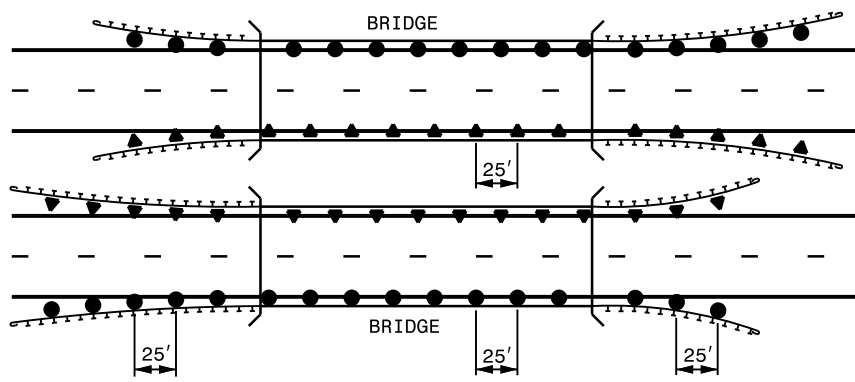


**GUARDRAIL/BARRIER
ALONG ROADWAY**

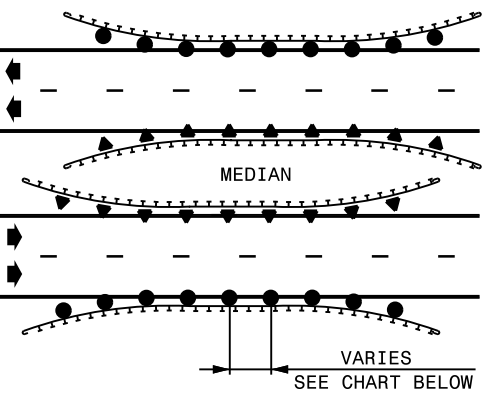


DIVIDED ROADWAYS

**GUARDRAIL/BARRIER
AT BRIDGES**



**GUARDRAIL/BARRIER
ALONG ROADWAY**



GENERAL NOTES:

- 1- INSTALL DELINEATORS AT ALL LOCATIONS OF PERMANENT AND TEMPORARY GUARDRAILS, CONCRETE BARRIERS, AND BRIDGE RAILS.
- 2- INSTALL DELINEATORS PRIOR TO ALLOWING TRAFFIC TO PROCEED IN AN AREA WITH NEW BARRIER OR GUARDRAIL INSTALLATIONS (TEMPORARY AND PROPOSED).
- 3- CONFORM COLOR OF DELINEATORS TO THE COLOR OF THE ADJACENT EDGE LINES.
- 4- POSITION DELINEATORS SUCH THAT THE REFLECTIVE SHEETING IS PERPENDICULAR TO THE ROADWAY.
- 5- BEGIN DELINEATOR PLACEMENT 5 FEET FROM BARRIER APPROACH ENDS AND 25 FEET FROM GUARDRAIL APPROACH ENDS.
- 6- BARRIER DELINEATORS THAT FALL ON JOINTS OR MOVE CONNECTIONS (UP TO 12 INCHES), ON EITHER SIDE OF THE JOINT.
- 7- POSITION THE GUARDRAIL AND/OR BARRIER DELINEATORS TO ACHIEVE A UNIFORM HEIGHT WITH THE BARRIER DELINEATORS WHERE GUARDRAIL TIES TO CONCRETE BARRIER.

DELINEATOR SPACING REQUIREMENTS FOR PERMANENT AND CONSTRUCTION ZONE GUARDRAIL, BARRIER, AND BRIDGE RAIL	
SPACING (FT.)	RAIL LOCATIONS
100'	ROADWAY CURVATURE < 3° RAIL PARALLEL TO ROADWAY
50'	ROADWAY CURVATURE ≥ 3° RAIL PARALLEL TO ROADWAY
25'	TRANSITIONS, TAPERS, & SECTIONS LESS THAN 200' LONG
25'	BRIDGE RAILS AND RAILS AT BRIDGE APPROACHES

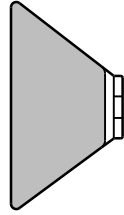
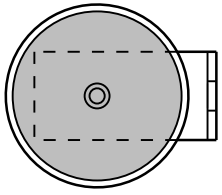
LEGEND

DIRECTION OF TRAFFIC FLOW
 YELLOW DELINEATOR
 CRYSTAL DELINEATOR
 GUARDRAIL OR BARRIER

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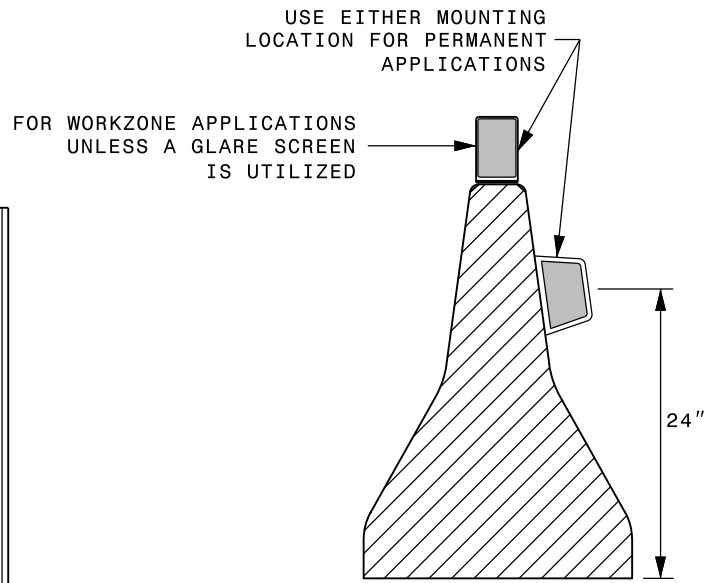
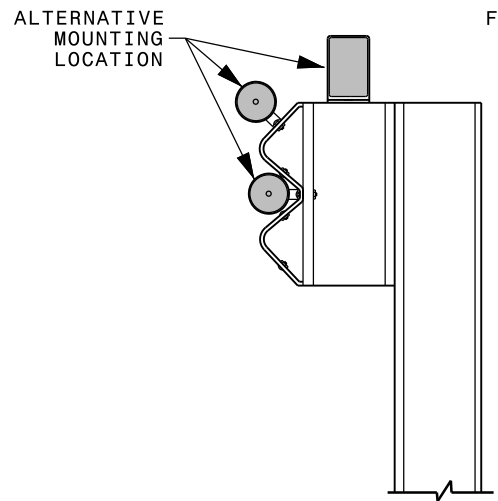
ROADWAY STANDARD DRAWING FOR
GUARDRAIL AND BARRIER DELINEATORS
 INSTALLATION SPACING

TYPICAL DELINEATORS

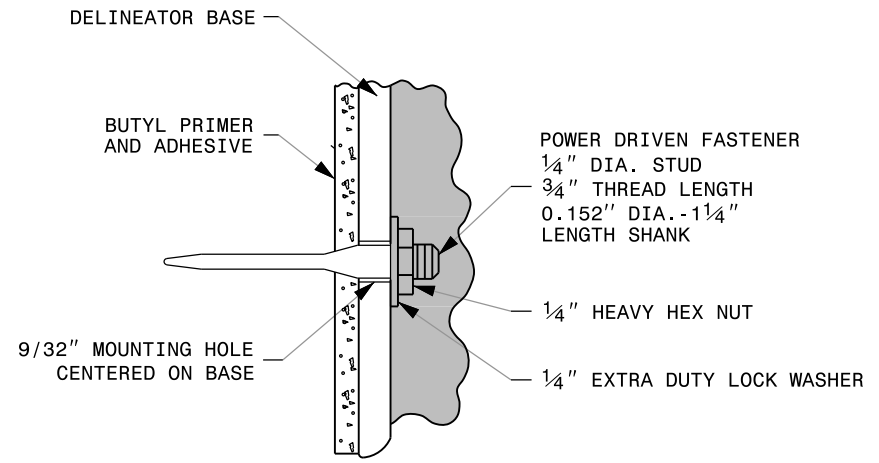


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MOUNTING DETAILS



TYPICAL POWER DRIVEN FASTENER INSTALLATION FOR BARRIER



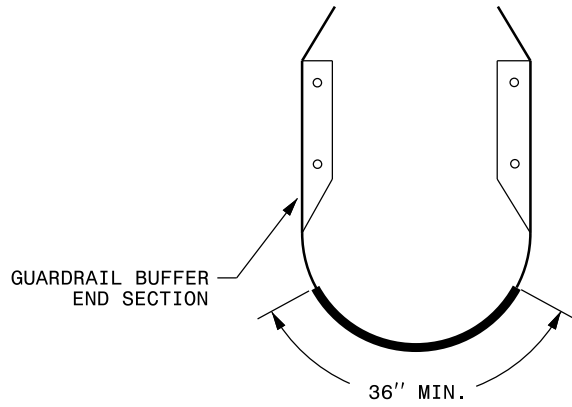
PAINT THE EXPOSED PORTIONS OF THE NUT, LOCK WASHER, AND POWER DRIVEN FASTENERS WITH ZINC-RICH PAINT TO MEET THE ENGINEER'S APPROVAL AFTER INSTALLATION OF THE ASSEMBLY.

GENERAL NOTES:

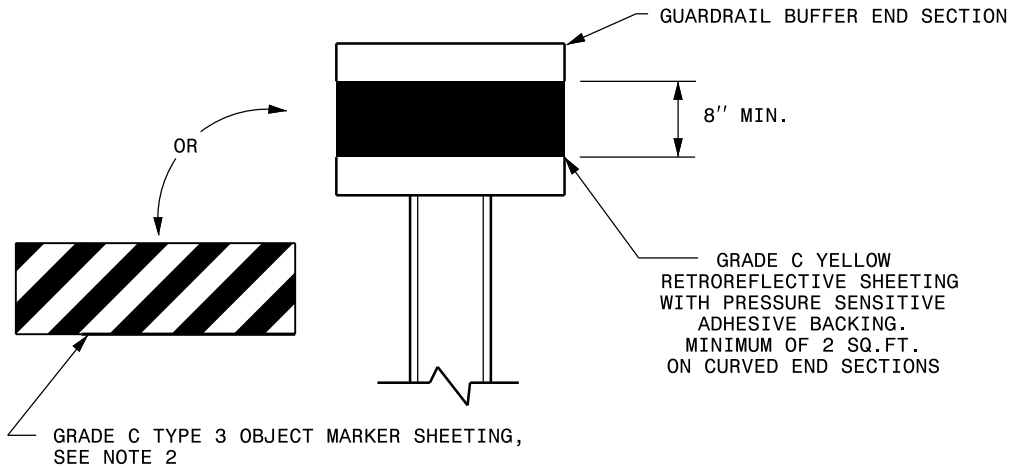
- 1- USE A MINIMUM 7 SQ. IN. REFLECTIVE AREA FOR SIDE MOUNTED DELINEATORS.
- 2- USE A MINIMUM 28 SQ. IN. REFLECTIVE AREA FOR TOP MOUNTED BARRIER DELINEATORS.
- 3- USE A MINIMUM 7 SQ. IN. REFLECTIVE AREA FOR TOP MOUNTED GUARDRAIL DELINEATORS.
- 4- USE ADHESIVE, CLIP ON GUARDRAIL POST, GUARDRAIL BOLTS, POWER DRIVEN FASTENERS, OR OTHER MOUNTING METHODS RECOMMENDED BY THE MANUFACTURER AS APPROVED BY THE ENGINEER.

ROADWAY STANDARD DRAWING FOR
GUARDRAIL & BARRIER DELINEATORS
 TYPES AND MOUNTING

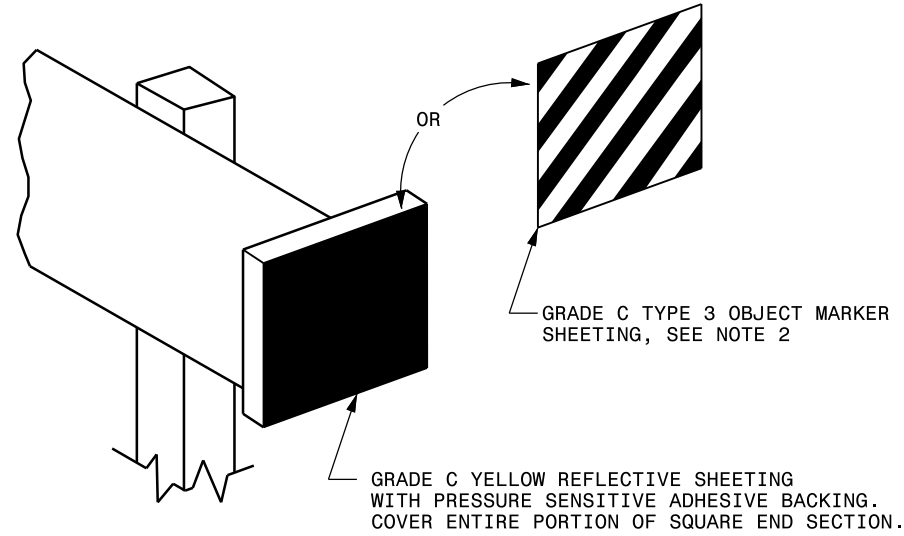
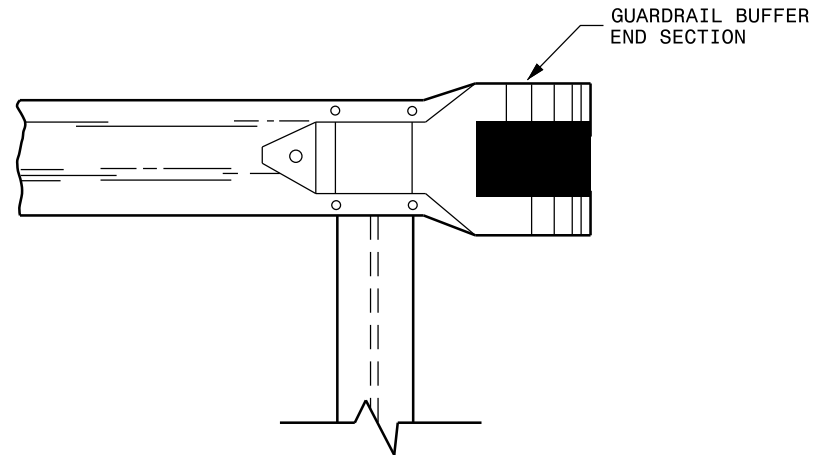
TOP VIEW



FRONT VIEW



SIDE VIEW

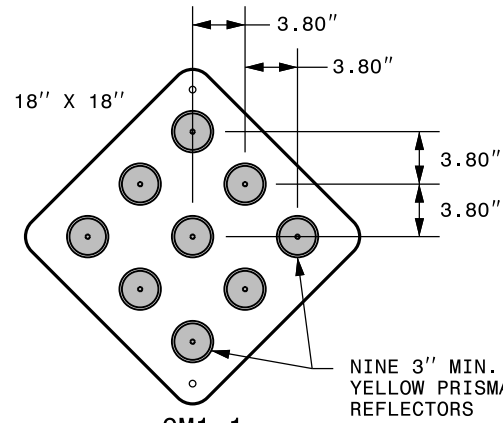


GENERAL NOTES:

- 1- GUARDRAIL END DELINEATION IS REQUIRED ON ALL APPROACH AND TRAILING.
- 2- TYPE 3 OBJECT MARKER SHEETING SHALL CONSIST OF ALTERNATING BLACK AND RETROREFLECTIVE YELLOW STRIPES SLOPING DOWN AT 45 DEGREES TOWARDS THE SIDE OF THE OBSTRUCTION ON WHICH TRAFFIC IS TO PASS.

TYPE 1 OBJECT MARKERS

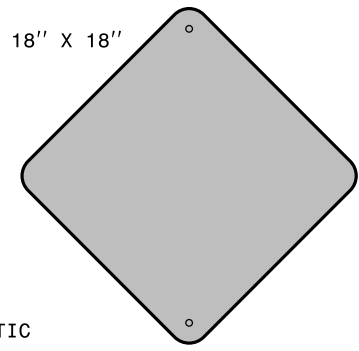
ALTERNATES 1 & 2



OM1 - 1
REFLECTORS ON YELLOW BACKGROUND

OM1 - 2
REFLECTORS ON BLACK BACKGROUND

ALTERNATE 3

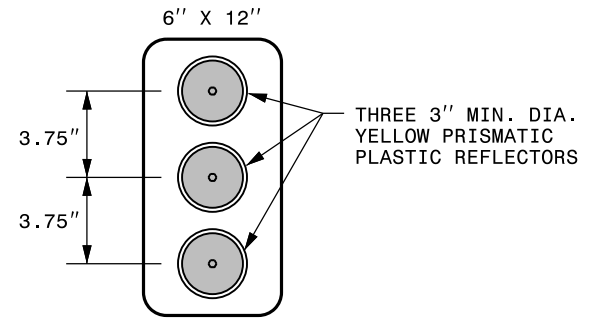


OM1 - 3
GRADE C YELLOW
RETROREFLECTIVE SHEETING

NOTES:
1- MATERIAL- .125'' ALUMINUM PANEL.

TYPE 2 OBJECT MARKERS

ALTERNATE 1



OM2 - 1
REFLECTORS ON GRADE C WHITE
RETROREFLECTIVE SHEETING

ALTERNATE 2



OM2 - 2
GRADE C YELLOW
RETROREFLECTIVE SHEETING

NOTES:
1- MATERIAL- .125'' ALUMINUM PANEL.

TYPE 3 OBJECT MARKERS

12'' X 36''



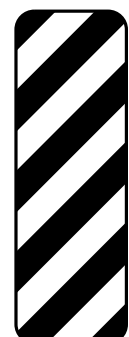
OM3 - L

12'' X 36''



OM3 - C

12'' X 36''

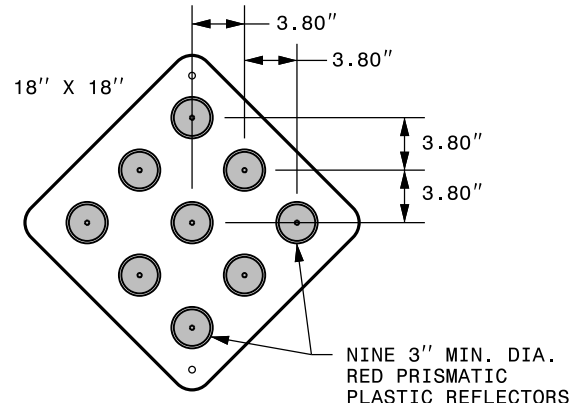


OM3 - R

NOTES:
1- GRADE C YELLOW RETROREFLECTIVE SHEETING WITH ALTERNATING BLACK AND YELLOW STRIPES.
2- STRIPES SLOPE DOWNWARD AT 45 DEGREES TOWARD THE SIDE OF THE OBSTRUCTION WHICH TRAFFIC IS TO PASS.
3- MATERIAL-.125'' ALUMINUM PANEL.

TYPE 4 OBJECT MARKERS (END OF ROAD)

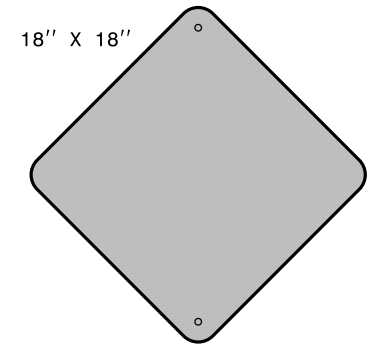
ALTERNATES 1 & 2



OM4 - 1
REFLECTORS ON RED BACKGROUND

OM4 - 2
REFLECTORS ON BLACK BACKGROUND

ALTERNATE 3



OM4 - 3
GRADE C RED
RETROREFLECTIVE SHEETING

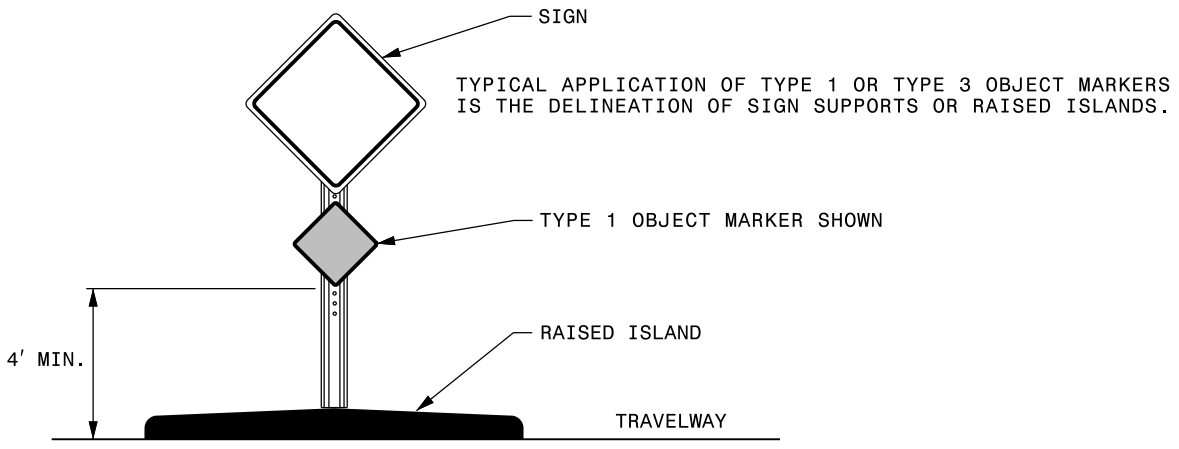
NOTES:
1- MATERIAL- .125'' ALUMINUM PANEL.

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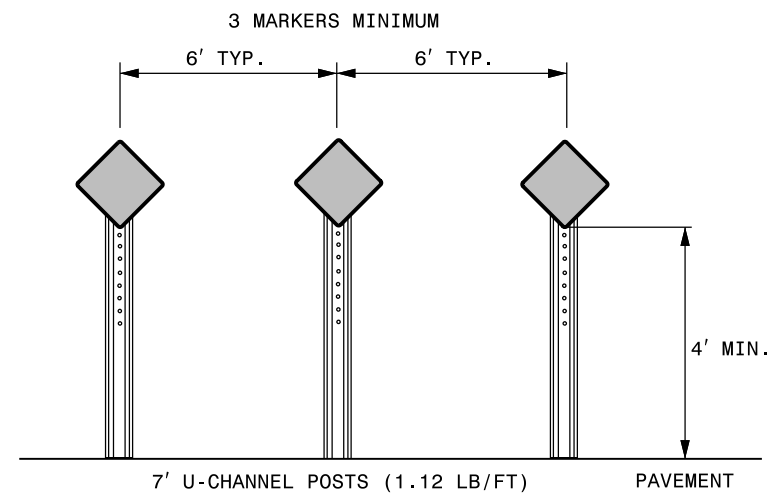
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ROADWAY STANDARD DRAWING FOR
OBJECT MARKERS
TYPES

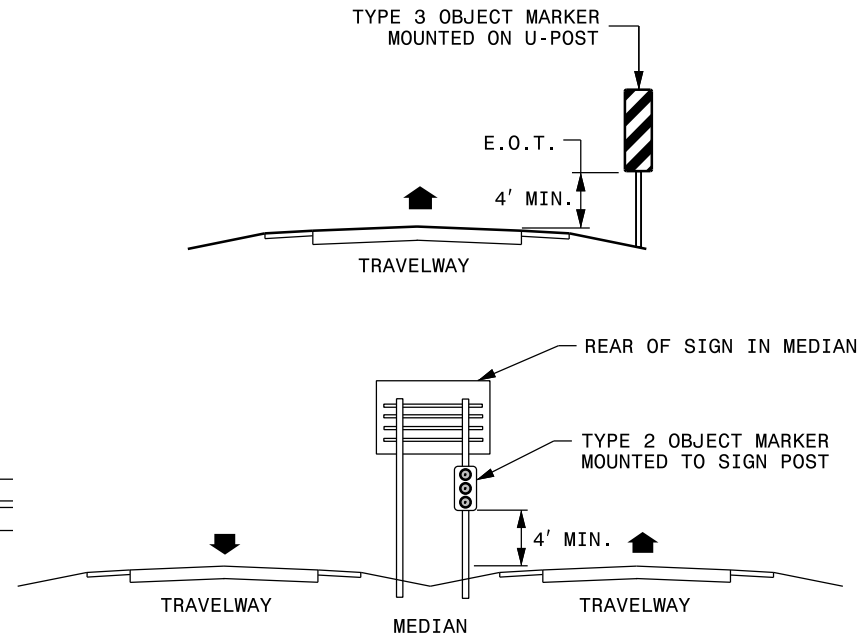
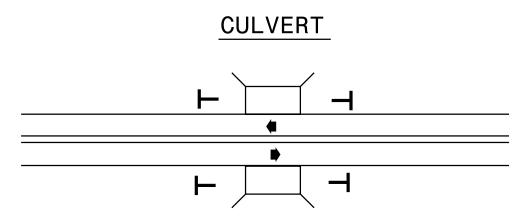
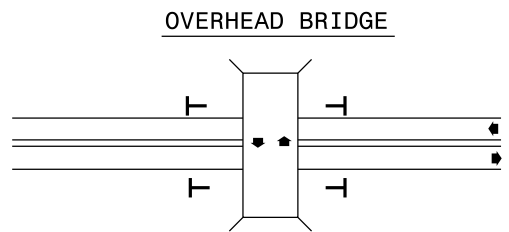
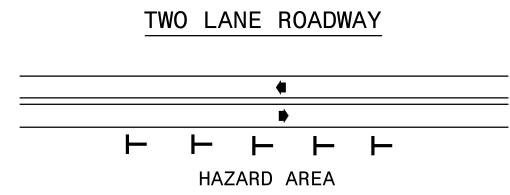
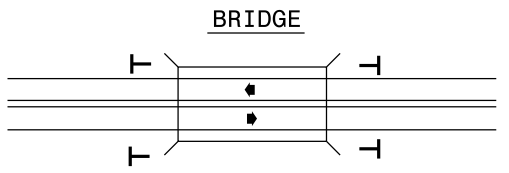
TYPE 1 OR TYPE 3 MARKERS FOR OBSTRUCTIONS WITHIN THE ROADWAY



TYPE 4 MARKERS FOR END OF ROADWAY



TYPE 2 OR TYPE 3 MARKERS FOR OBSTRUCTIONS ADJACENT TO THE ROADWAY



TYPICAL APPLICATIONS OF TYPE 2 OR TYPE 3 OBJECT MARKERS INCLUDES DELINEATION OF BRIDGE PIERS, ABUTMENTS, HANDRAILS, CULVERT HEADWALLS, NARROW SHOULDERS, DROP-OFFS, OR OTHER UNDESIRABLE CONDITIONS WHEN GUARDRAIL OR OTHER ROADSIDE PROTECTION IS NOT IN PLACE.

LEGEND

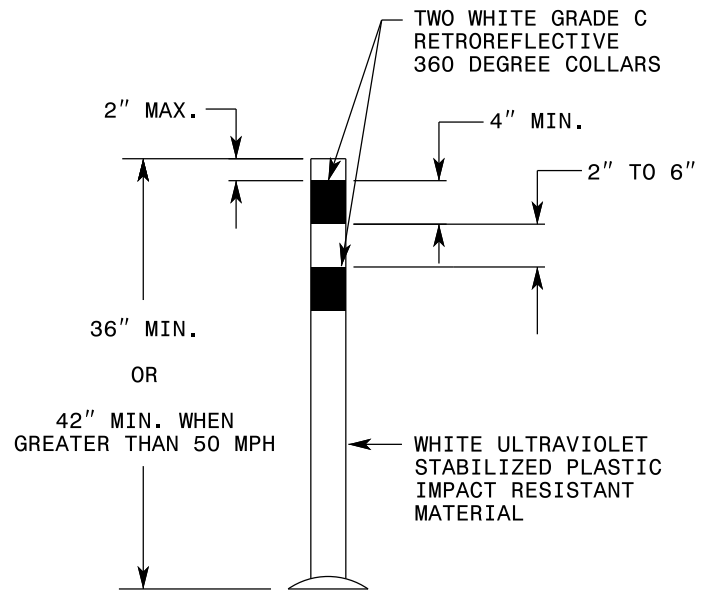
- └ OBJECT MARKER
- ◄ DIRECTION OF TRAFFIC FLOW

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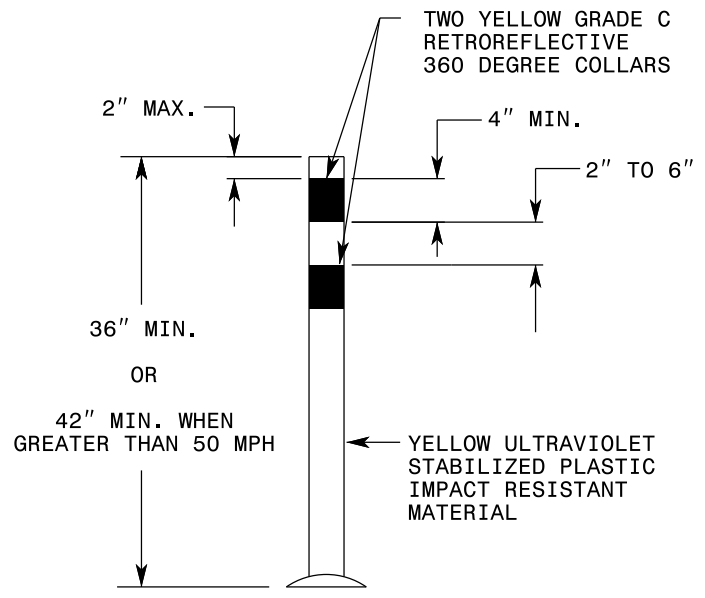
1-18

ROADWAY STANDARD DRAWING FOR
OBJECT MARKERS
INSTALLATION

TUBULAR MARKER WHITE



TUBULAR MARKER YELLOW



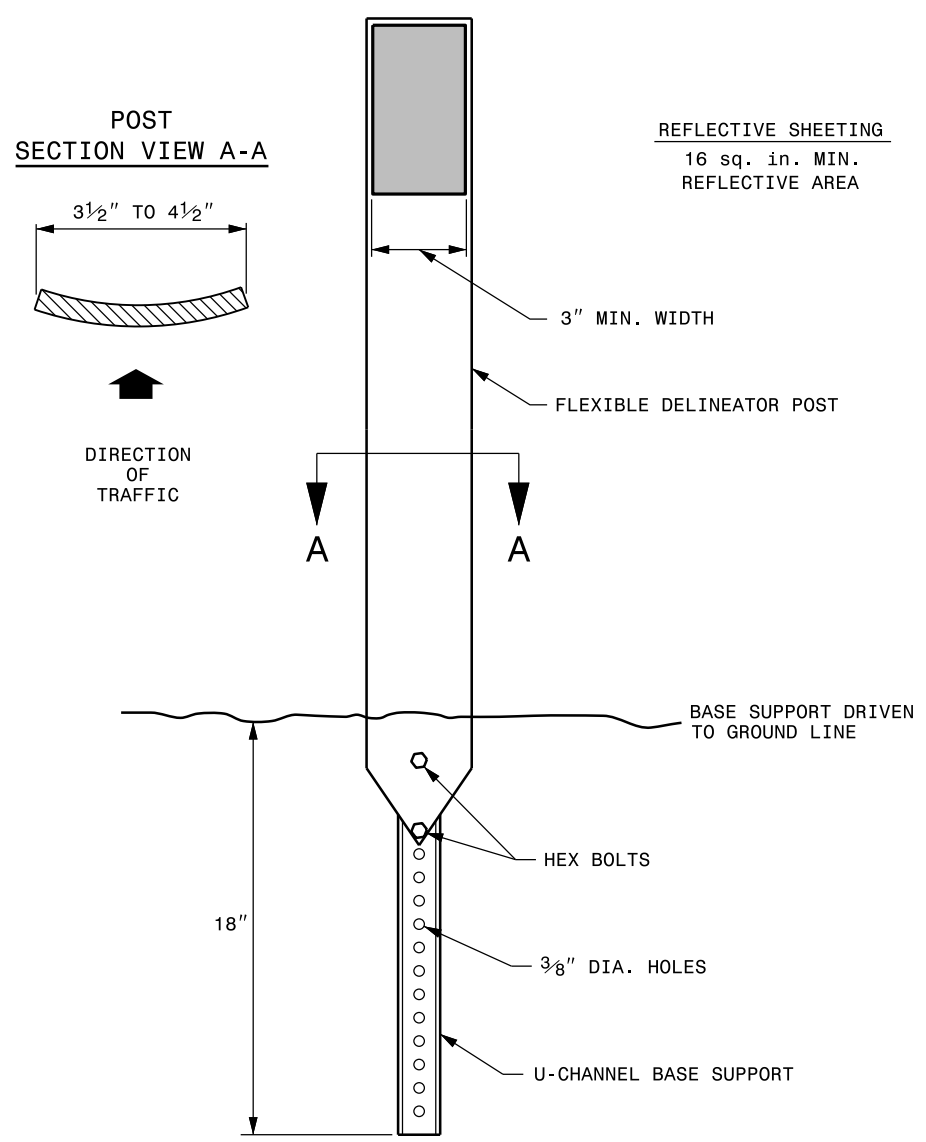
GENERAL NOTES:

- 1- USE TUBULAR MARKERS THAT ARE CIRCULAR IN SHAPE AND HAVE A MINIMUM HEIGHT OF 36" WITH A BROADENED BASED.
- 2- USE TUBULAR MARKERS THAT HAVE A MINIMUM HEIGHT OF 42" ON ROADWAYS WITH POSTED SPEED LIMITS GREATER THAT 50 MPH.
- 3- SPACING OF TUBULAR MARKERS SHALL BE DETERMINED BY THE ENGINEER ON A CASE BY CASE BASIS.
- 4- SECURE/INSTALL TUBULAR MARKERS TO THE PAVEMENT SURFACE USING EPOXY OR OTHER APPROVED TYPES OF ADHESIVES.

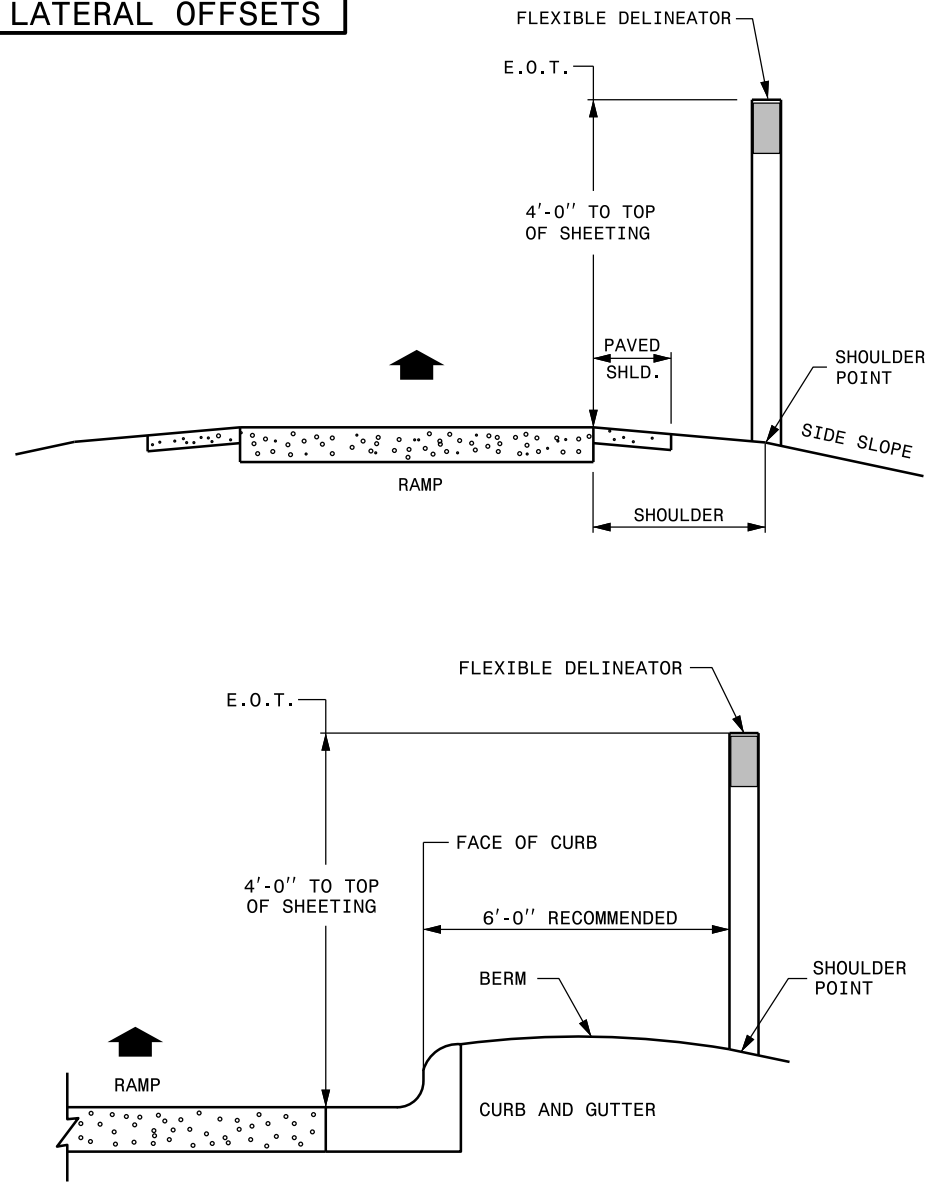
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ROADWAY STANDARD DRAWING FOR RAISED PAVEMENT MARKERS TUBULAR MARKERS

FLEXIBLE DELINEATOR ASSEMBLY



LATERAL OFFSETS



GENERAL NOTES:

1- PLACE DELINEATORS AT CONSTANT DISTANCE FROM TRAVELWAY.

LEGEND	
W	= WIDTH OF TRAVEL LANE
E.O.T.	= EDGE OF TRAVEL
➡	DIRECTION OF TRAFFIC FLOW

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ROADWAY STANDARD DRAWING FOR
FLEXIBLE DELINEATORS
 INSTALLATION

TABLE A	
CURVATURES 4°00' OR LESS	
HORIZONTAL CURVATURE	DELINEATOR SPACING (FT)
TANGENT TO 0°30'	200'
GREATER THAN 0°30' TO 4°00'	150'
RAMP ACCELERATION DECELERATION LANES	200'
RAMP GORES	50'

TABLE B	
CURVATURES GREATER THAN 4°00'	
CURVE RADIUS (R) (FT)	DELINEATOR SPACING (S) (FT)
50	20
150	30
200	35
250	40
300	50
400	55
500	65
600	70
700	75
800	80
900	85
1000	90
1100	95
1200	100
1300	105
1400	110

- SPACING ROUNDED TO NEAREST 5 FT.
- MIN. SPACING = 20 FT.
- SPACING FOR SPECIFIC RADII MAY BE INTERPOLATED FROM TABLE B OR COMPUTED FROM THE FORMULA $S = (3)\sqrt{R-50}$
WHERE S= SPACING, R= RADIUS, IN FEET.
IN ADVANCE OF AND BEYOND A CURVE, THE SPACING OF THE FIRST DELINEATOR IS 2S, THE SECOND 3S, AND THE THIRD 6S BUT NOT TO EXCEED 300 FEET. THE FIRST DELINEATORS ARE CONSIDERED THE ONES NEAREST TO THE ENDS OF THE CURVE.

GENERAL NOTES:

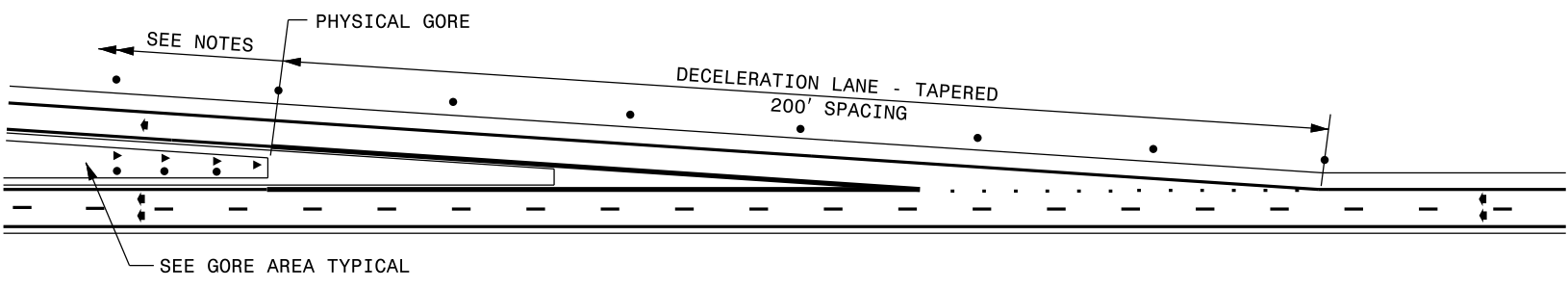
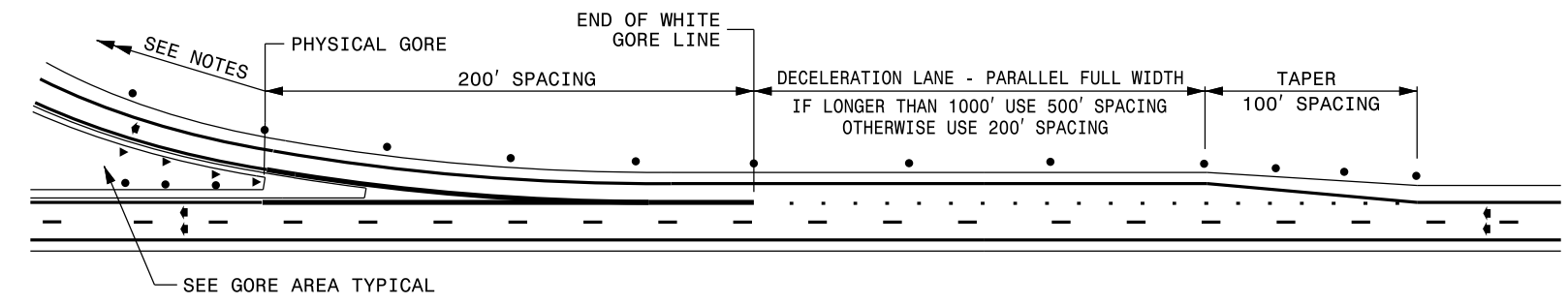
- 1-FLEXIBLE DELINEATORS ARE REQUIRED ONLY AT INTERCHANGES.
- 2-FLEXIBLE DELINEATORS ARE NOT REQUIRED WHERE THEY FALL BEHIND GUARDRAIL, OR WHERE ADEQUATE FIXED SOURCE LIGHTING IS PROVIDED.

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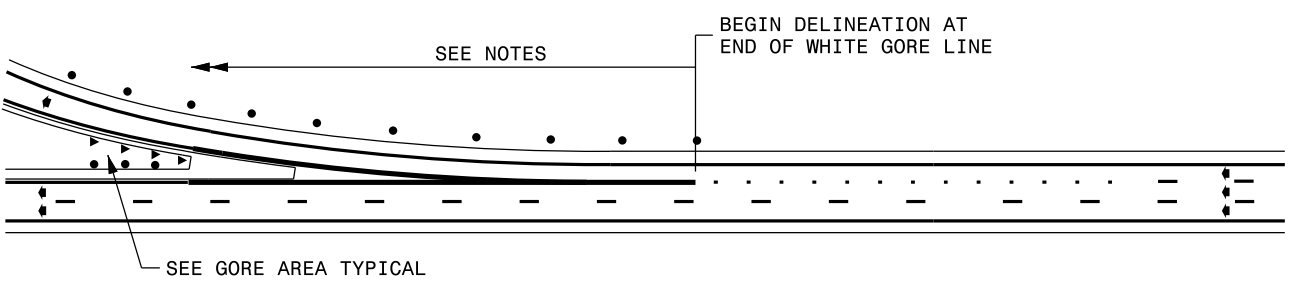
ROADWAY STANDARD DRAWING FOR
FLEXIBLE DELINEATORS
SPACING TABLES

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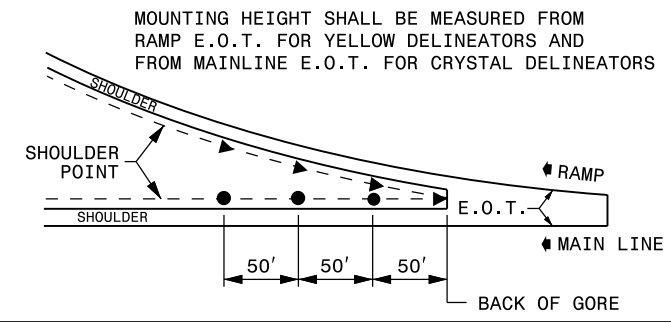
EXIT RAMPS



THRU-LANE DROP AT EXIT RAMP



GORE AREAS



GENERAL NOTES:

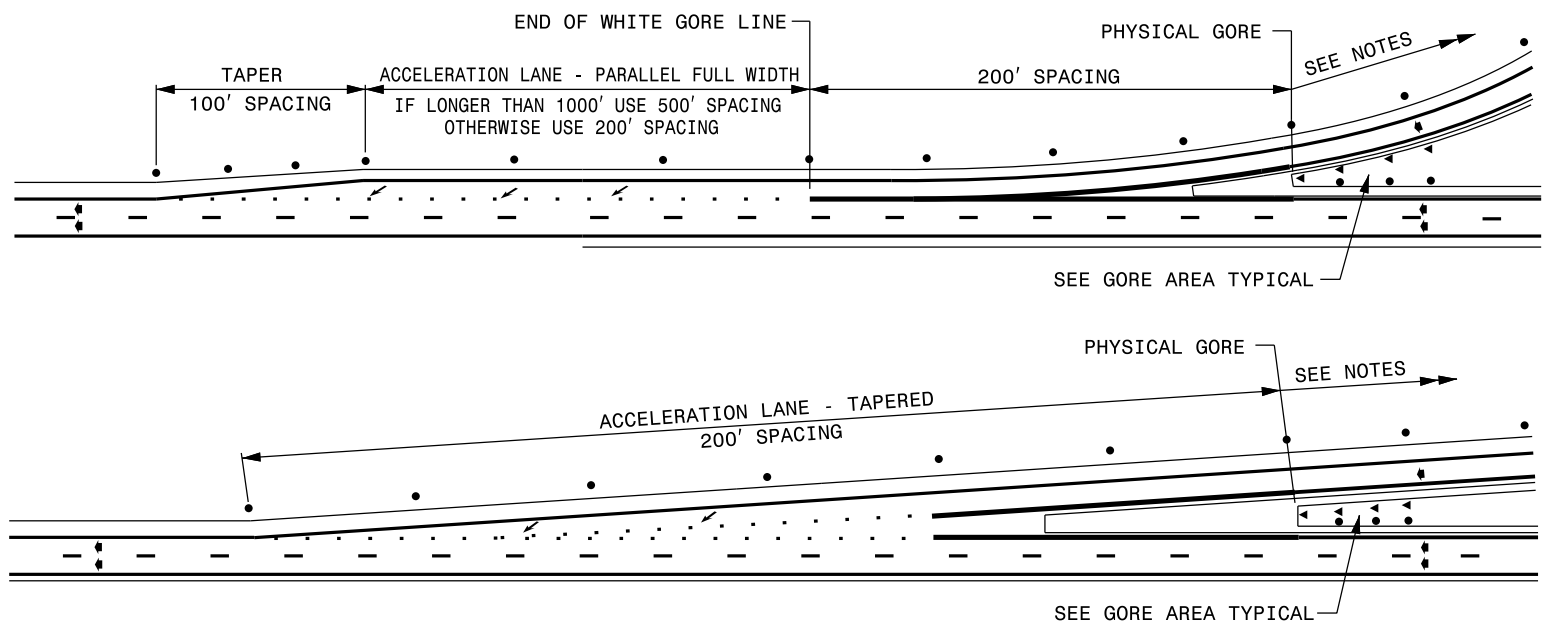
1- CONTINUE DELINEATORS ON RAMPS AND LOOPS, USING TABLES A OR B ON STD. DWG. 1267.02 AND THE FOLLOWING REQUIREMENTS:

- PLACE CRYSTAL DELINEATORS ON RIGHT SIDE OF RAMP FOR ALL RIGHT AND LEFT HAND CURVES FOR RAMPS WITH CURVE RADII 1000 FT. OR GREATER.
- PLACE YELLOW DELINEATORS ON LEFT SIDE OF CURVE (CONVEX SIDE) RANGING FROM THE P.C. OR S.C. TO THE P.T. OR C.S. IN ADVANCE OF AND BEYOND THE CURVE FOR RAMPS AND LOOPS WITH RIGHT HAND CURVE RADII LESS THAN 1000 FT. CONTINUE WITH CRYSTAL DELINEATORS ON THE RIGHT SIDE WITH A MINIMUM OVERLAP OF 2 DELINEATORS WITHIN THE CURVE. CONTINUE THE CRYSTAL DELINEATORS THROUGH THE RIGHT SIDE OF THE CURVE WHEN THE GAP BETWEEN CRYSTAL DELINEATORS IS LESS THAN 500 FT.

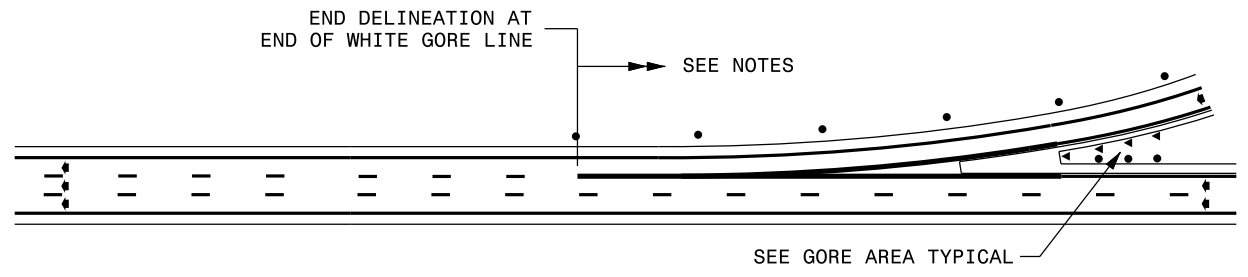
LEGEND	
E.O.T.=	EDGE OF TRAVEL
●	CRYSTAL DELINEATOR
▲	YELLOW DELINEATOR
◄	DIRECTION OF TRAFFIC FLOW

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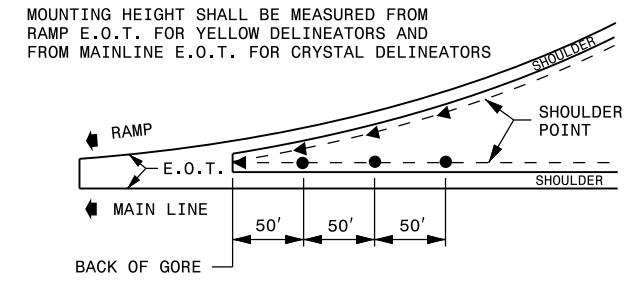
ENTRANCE RAMP



LANE ADDITION FROM ENTRANCE RAMP



GORE AREAS



GENERAL NOTES:

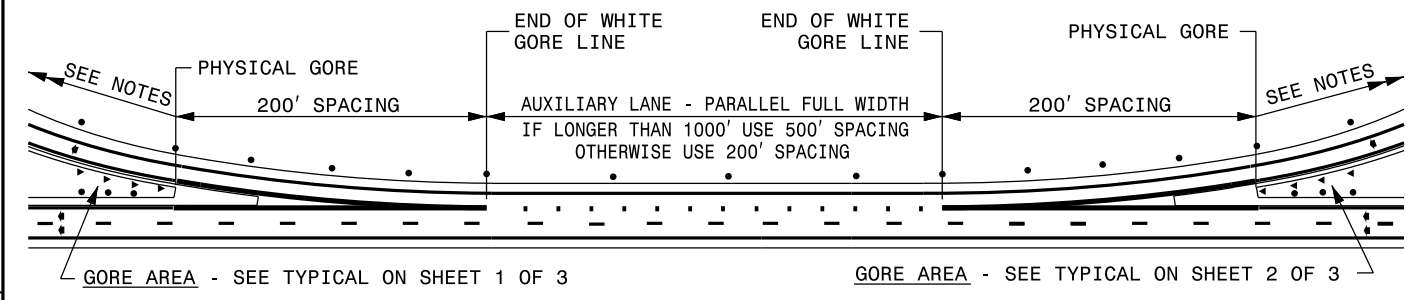
1- CONTINUE DELINEATORS ON RAMPS AND LOOPS, USING TABLES A OR B ON STD. DWG. 1267.02 AND THE FOLLOWING REQUIREMENTS:

PLACE CRYSTAL DELINEATORS ON RIGHT SIDE OF RAMP FOR ALL RIGHT AND LEFT HAND CURVES FOR RAMPS WITH CURVE RADII 1000 FT. OR GREATER.

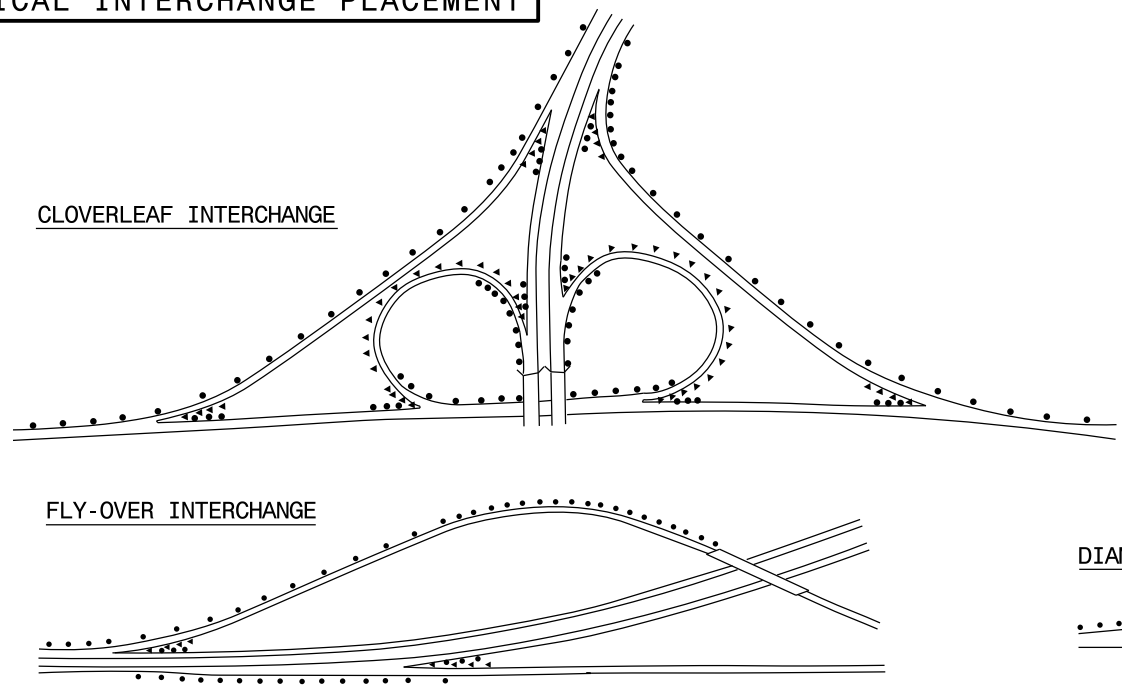
PLACE YELLOW DELINEATORS ON LEFT SIDE OF CURVE (CONVEX SIDE) RANGING FROM THE P.C. OR S.C. TO THE P.T. OR C.S. IN ADVANCE OF AND BEYOND THE CURVE FOR RAMPS AND LOOPS WITH RIGHT HAND CURVE RADII LESS THAN 1000 FT. CONTINUE WITH CRYSTAL DELINEATORS ON THE RIGHT SIDE WITH A MINIMUM OVERLAP OF 2 DELINEATORS WITHIN THE CURVE. CONTINUE THE CRYSTAL DELINEATORS THROUGH THE RIGHT SIDE OF THE CURVE WHEN THE GAP BETWEEN CRYSTAL DELINEATORS IS LESS THAN 500 FT.

LEGEND	
E.O.T.=	EDGE OF TRAVEL
●	CRYSTAL DELINEATOR
▲	YELLOW DELINEATOR
◆	DIRECTION OF TRAFFIC FLOW

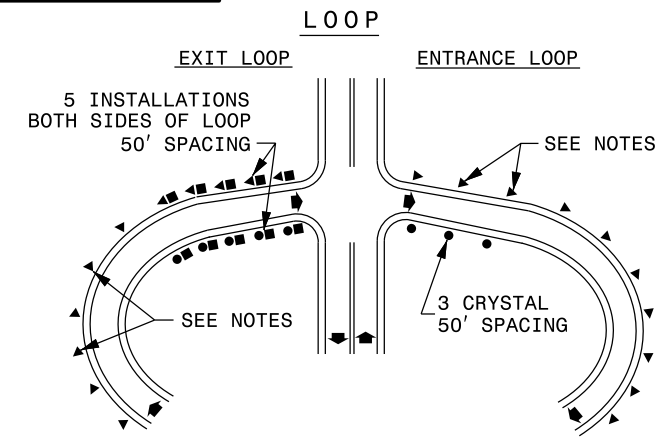
CLOVERLEAF INTERCHANGE



TYPICAL INTERCHANGE PLACEMENT



TERMINALS



GENERAL NOTES:

1- CONTINUE DELINEATORS ON RAMPS AND LOOPS, USING TABLES A OR B ON STD. DWG. 1267.02 AND THE FOLLOWING REQUIREMENTS:

PLACE CRYSTAL DELINEATORS ON RIGHT SIDE OF RAMP FOR ALL RIGHT AND LEFT HAND CURVES FOR RAMPS WITH CURVE RADII 1000 FT. OR GREATER.

PLACE YELLOW DELINEATORS ON LEFT SIDE OF CURVE (CONVEX SIDE) RANGING FROM THE P.C. OR S.C. TO THE P.T. OR C.S. IN ADVANCE OF AND BEYOND THE CURVE FOR RAMPS AND LOOPS WITH RIGHT HAND CURVE RADII LESS THAN 1000 FT. CONTINUE WITH CRYSTAL DELINEATORS ON THE RIGHT SIDE WITH A MINIMUM OVERLAP OF 2 DELINEATORS WITHIN THE CURVE. CONTINUE THE CRYSTAL DELINEATORS THROUGH THE RIGHT SIDE OF THE CURVE WHEN THE GAP BETWEEN CRYSTAL DELINEATORS IS LESS THAN 500 FT.

LEGEND	
●	CRYSTAL DELINEATOR
■	CRYSTAL DELINEATOR BACK TO BACK WITH RED DELINEATOR
◀	YELLOW DELINEATOR
◀■	YELLOW DELINEATOR BACK TO BACK WITH RED DELINEATOR

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ROADWAY STANDARD DRAWING FOR
FLEXIBLE DELINEATORS
INTERCHANGE PLACEMENT