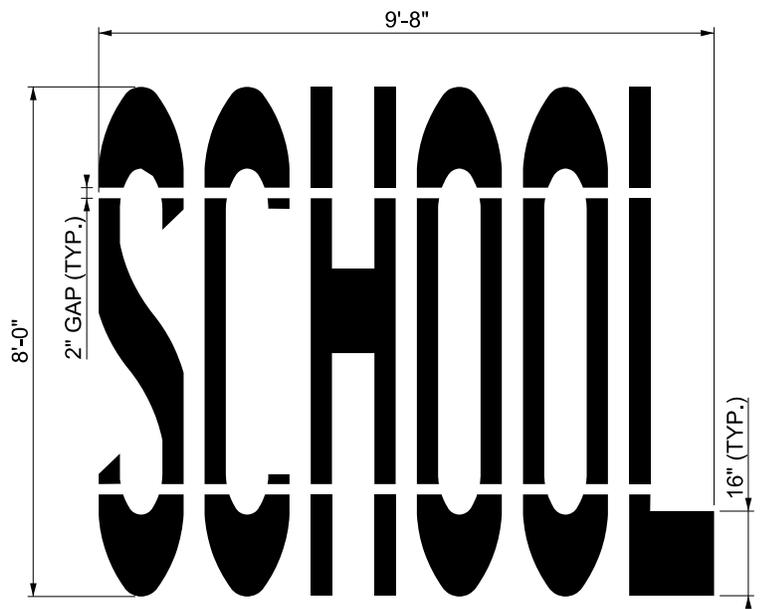
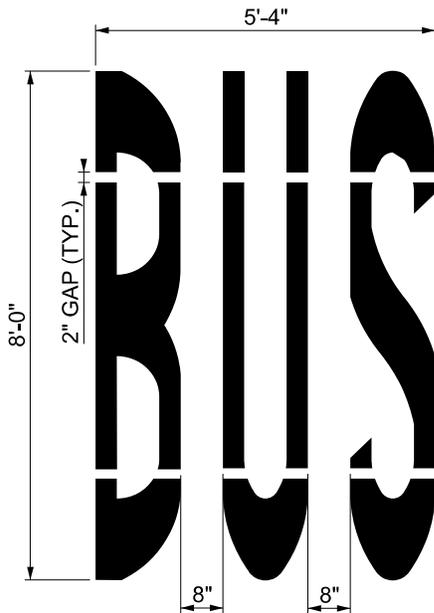
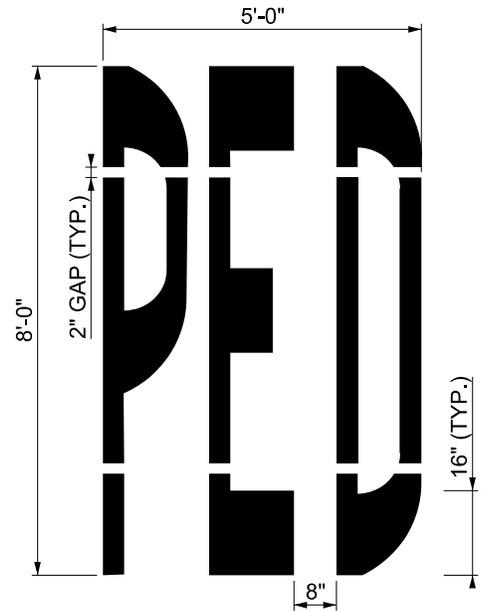
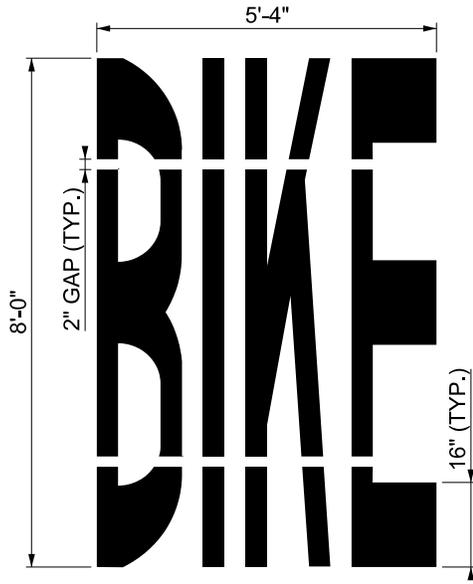


**NOTES:**

1. ALL LETTERS ARE 16 INCHES WIDE UNLESS NOTED OTHERWISE.
2. ALL GAPS BETWEEN LETTERS ARE 4 INCHES UNLESS NOTED OTHERWISE.
3. WHEN PLACED ON A SHARED-USE PATH, REDUCE ALL VERTICAL DIMENSIONS (EXCEPT 2" LIQUID TEMPLATE GAPS) BY HALF.
4. 2" GAPS SHOWN ARE FOR LIQUID TEMPLATES ONLY AND ARE NOT ALLOWED IN TAPE APPLICATIONS.



**LEGEND DETAILS**

APPROVED BY: \_\_\_\_\_  
DIRECTOR, BUREAU OF FIELD SERVICES

APPROVED BY: \_\_\_\_\_  
DIRECTOR, BUREAU OF DEVELOPMENT



DEPARTMENT DIRECTOR  
BRADLEY C. WIEFERICH, PE

STANDARD PLAN FOR  
PAVEMENT ARROW &  
MESSAGE DETAILS

11/22/2023  
FHWA APPROVAL

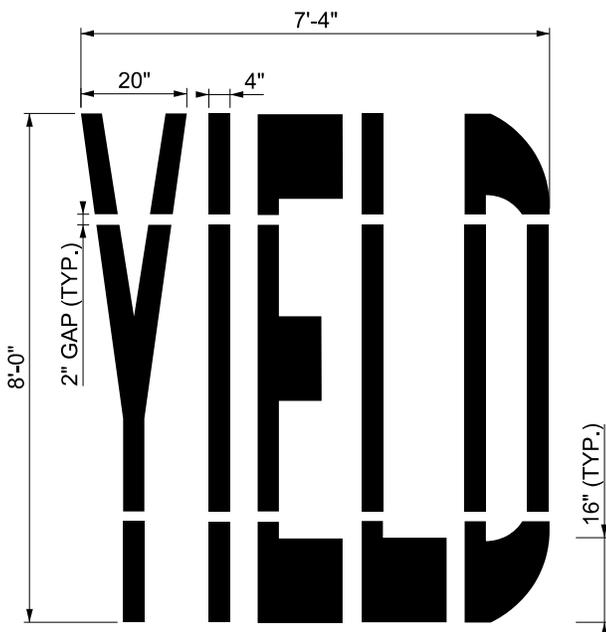
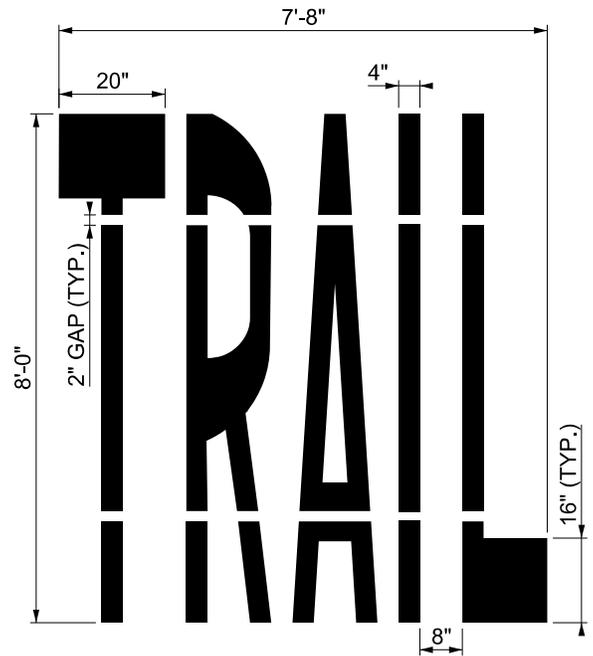
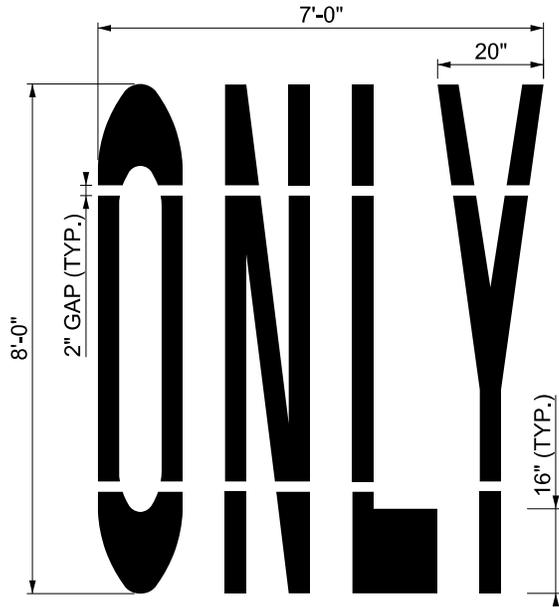
09/13/2023  
PLAN DATE

PAVE-900-H

SHEET  
1 OF 10

**NOTES:**

1. ALL LETTERS ARE 16 INCHES WIDE UNLESS NOTED OTHERWISE.
2. ALL GAPS BETWEEN LETTERS ARE 4 INCHES UNLESS NOTED OTHERWISE.
3. WHEN PLACED ON A SHARED-USE PATH, REDUCE ALL VERTICAL DIMENSIONS (EXCEPT 2" LIQUID TEMPLATE GAPS) BY HALF.
4. 2" GAPS SHOWN ARE FOR LIQUID TEMPLATES ONLY AND ARE NOT ALLOWED IN TAPE APPLICATIONS.

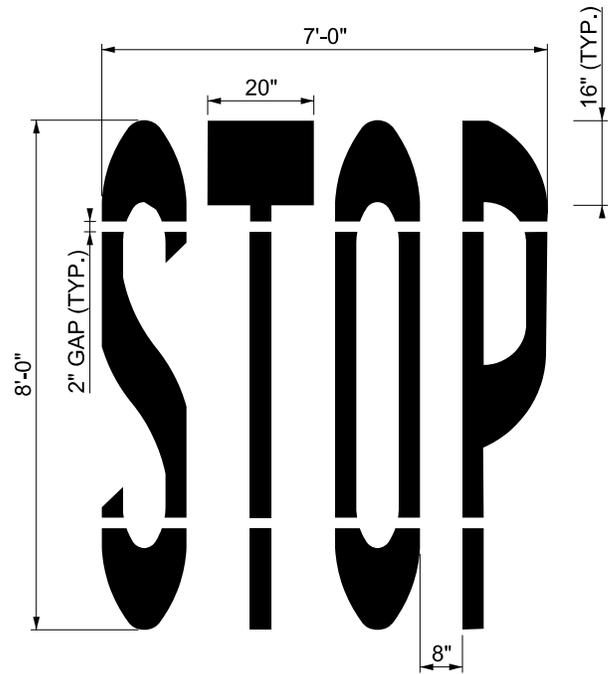
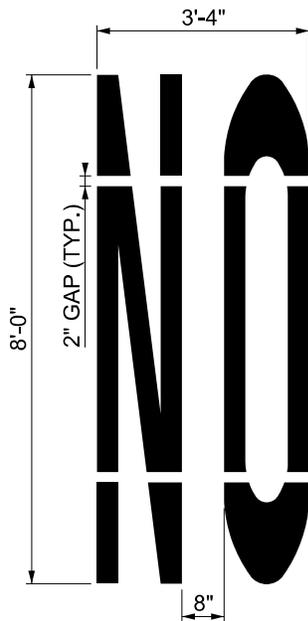
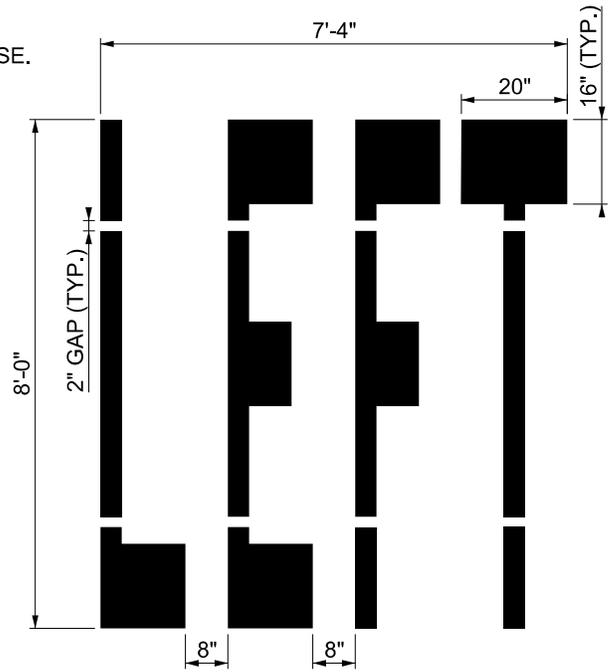
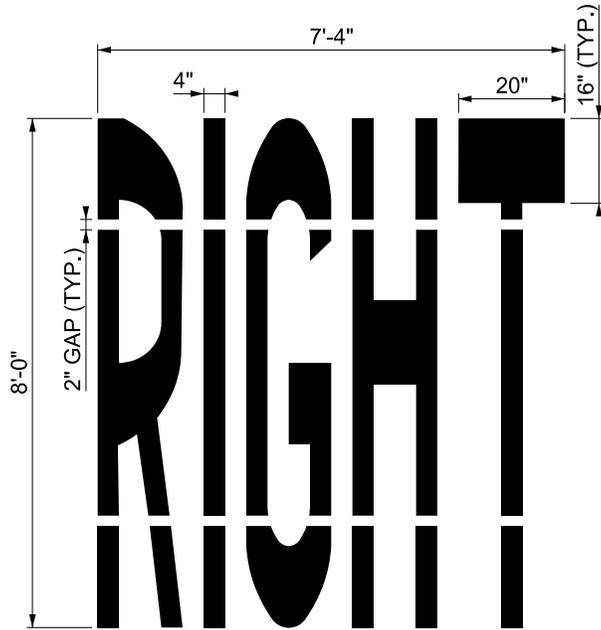


**LEGEND DETAILS**

 DEPARTMENT DIRECTOR BRADLEY C. WIEFERICH, PE	STANDARD PLAN FOR PAVEMENT ARROW & MESSAGE DETAILS			SHEET 2 OF 10
	11/22/2023 FHWA APPROVAL	09/13/2023 PLAN DATE	PAVE-900-H	

**NOTES:**

1. ALL LETTERS ARE 16 INCHES WIDE UNLESS NOTED OTHERWISE.
2. ALL GAPS BETWEEN LETTERS ARE 4 INCHES UNLESS NOTED OTHERWISE.
3. WHEN PLACED ON A SHARED-USE PATH, REDUCE ALL VERTICAL DIMENSIONS (EXCEPT 2" LIQUID TEMPLATE GAPS) BY HALF.
4. 2" GAPS SHOWN ARE FOR LIQUID TEMPLATES ONLY AND ARE NOT ALLOWED IN TAPE APPLICATIONS.

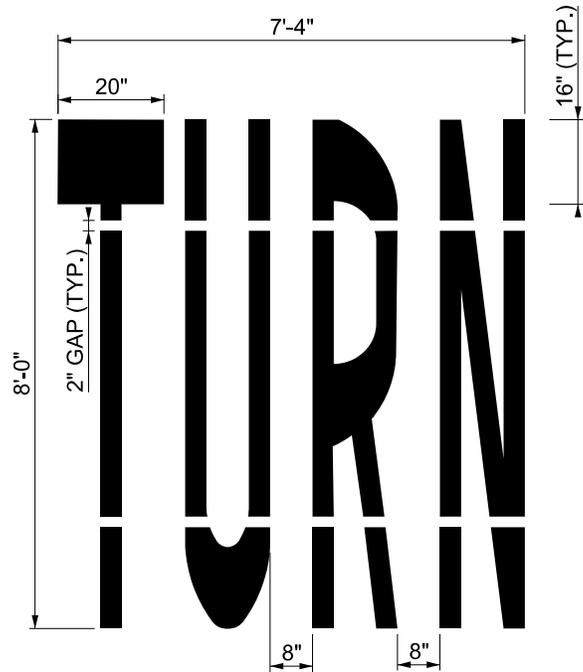
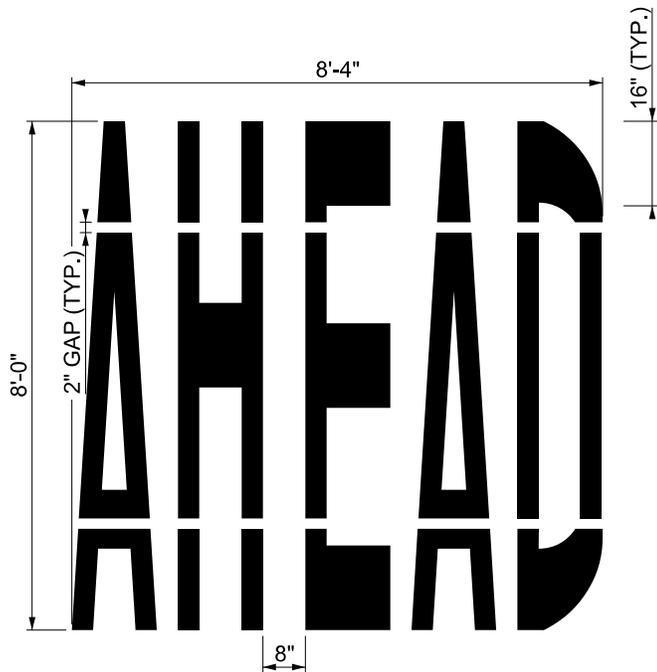
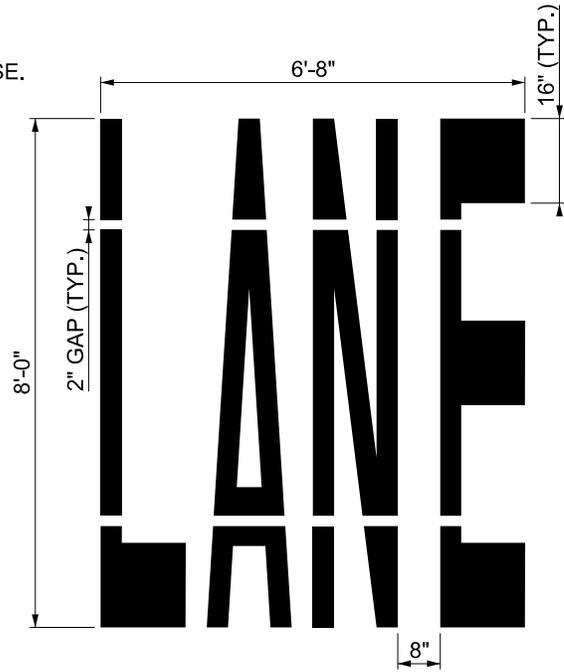
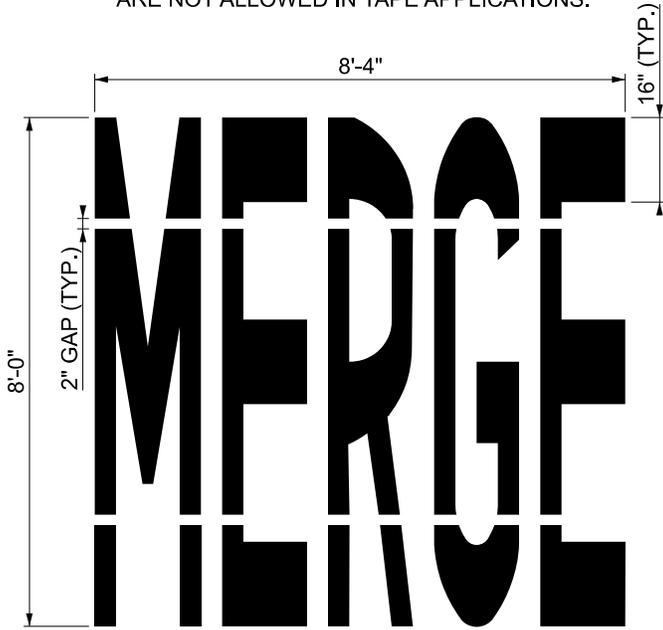


**LEGEND DETAILS**

 DEPARTMENT DIRECTOR BRADLEY C. WIEFERICH, PE	STANDARD PLAN FOR PAVEMENT ARROW & MESSAGE DETAILS			SHEET 3 OF 10
	11/22/2023 FHWA APPROVAL	09/13/2023 PLAN DATE	PAVE-900-H	

**NOTES:**

1. ALL LETTERS ARE 16 INCHES WIDE UNLESS NOTED OTHERWISE.
2. ALL GAPS BETWEEN LETTERS ARE 4 INCHES UNLESS NOTED OTHERWISE.
3. WHEN PLACED ON A SHARED-USE PATH, REDUCE ALL VERTICAL DIMENSIONS (EXCEPT 2" LIQUID TEMPLATE GAPS) BY HALF.
4. 2" GAPS SHOWN ARE FOR LIQUID TEMPLATES ONLY AND ARE NOT ALLOWED IN TAPE APPLICATIONS.

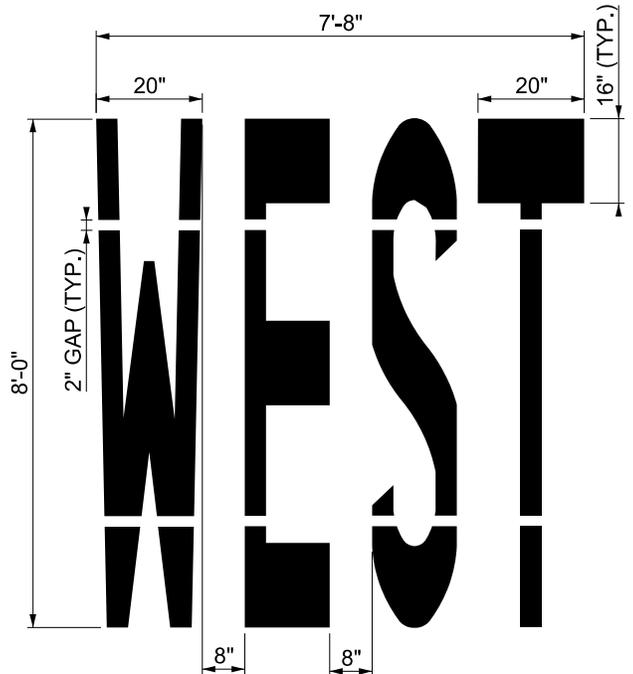
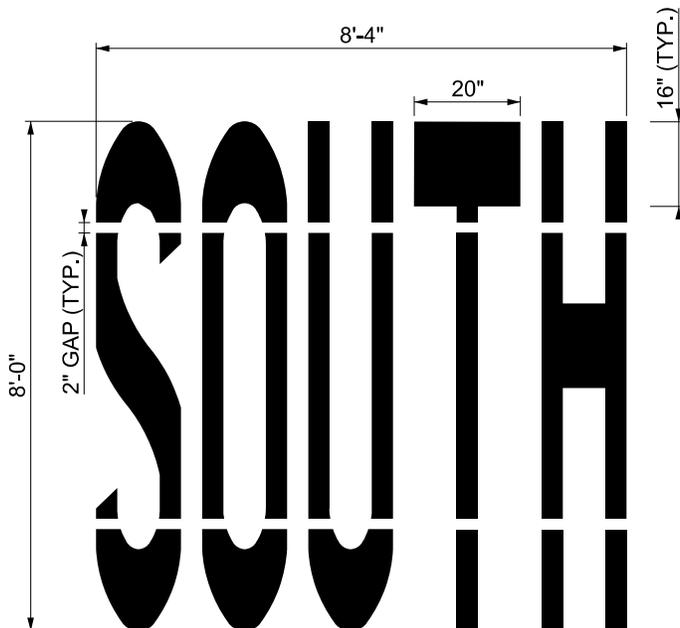
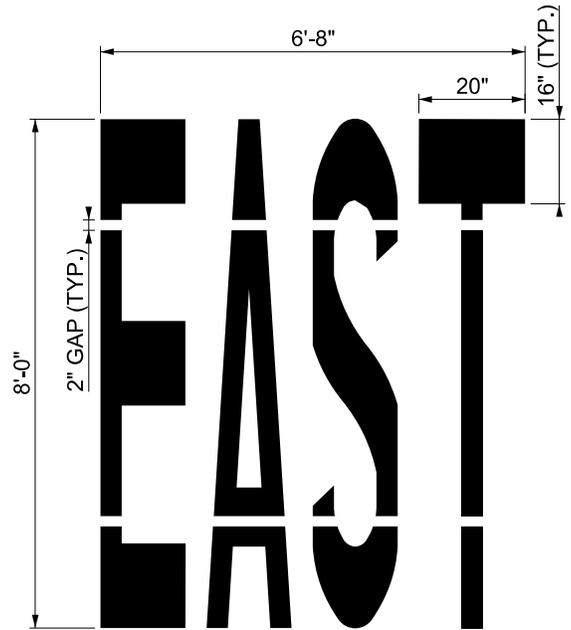
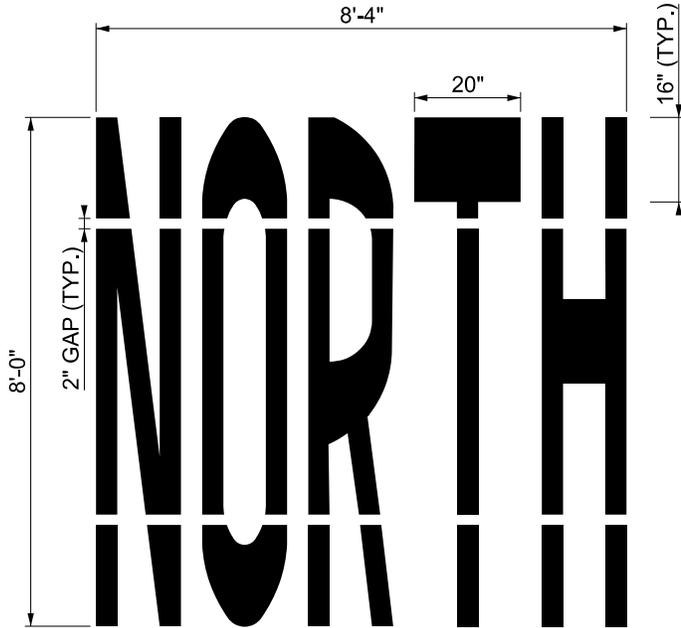


**LEGEND DETAILS**

 DEPARTMENT DIRECTOR BRADLEY C. WIEFERICH, PE	STANDARD PLAN FOR PAVEMENT ARROW & MESSAGE DETAILS			SHEET 4 OF 10
	11/22/2023 FHWA APPROVAL	09/13/2023 PLAN DATE	PAVE-900-H	

**NOTES:**

1. ALL LETTERS ARE 16 INCHES WIDE UNLESS NOTED OTHERWISE.
2. ALL GAPS BETWEEN LETTERS ARE 4 INCHES UNLESS NOTED OTHERWISE.
3. WHEN PLACED ON A SHARED-USE PATH, REDUCE ALL VERTICAL DIMENSIONS (EXCEPT 2" LIQUID TEMPLATE GAPS) BY HALF.
4. 2" GAPS SHOWN ARE FOR LIQUID TEMPLATES ONLY AND ARE NOT ALLOWED IN TAPE APPLICATIONS.

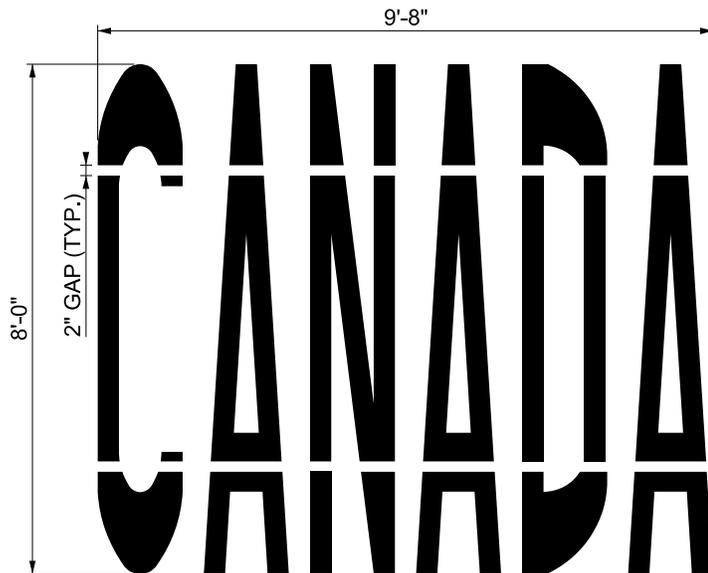
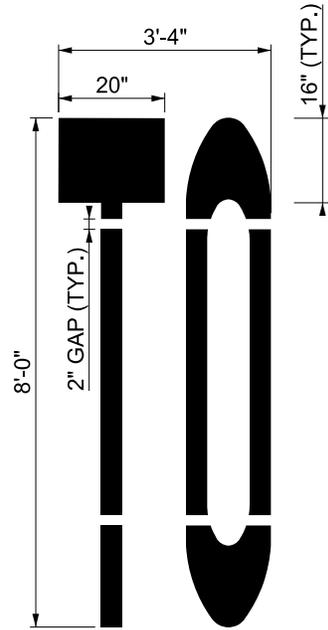
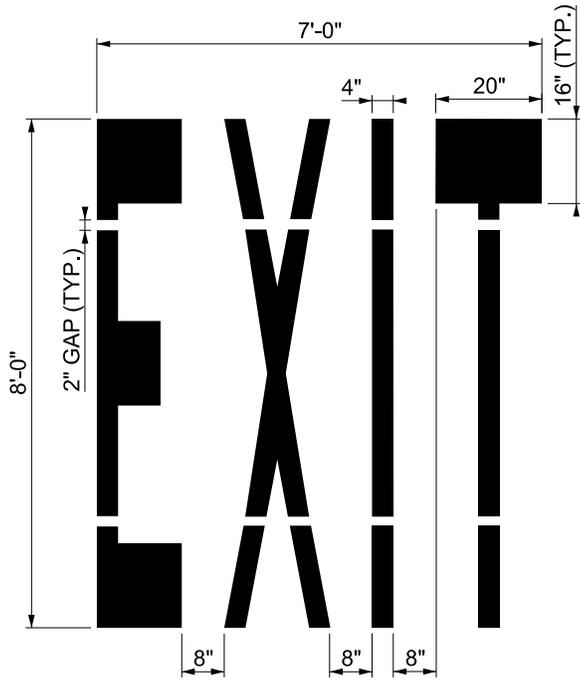


**LEGEND DETAILS**

<p>MDOT Michigan Department of Transportation</p> <p>DEPARTMENT DIRECTOR BRADLEY C. WIEFERICH, PE</p>	<p>STANDARD PLAN FOR PAVEMENT ARROW &amp; MESSAGE DETAILS</p>			<p>SHEET 5 OF 10</p>
	<p>11/22/2023 FHWA APPROVAL</p>	<p>09/13/2023 PLAN DATE</p>	<p>PAVE-900-H</p>	

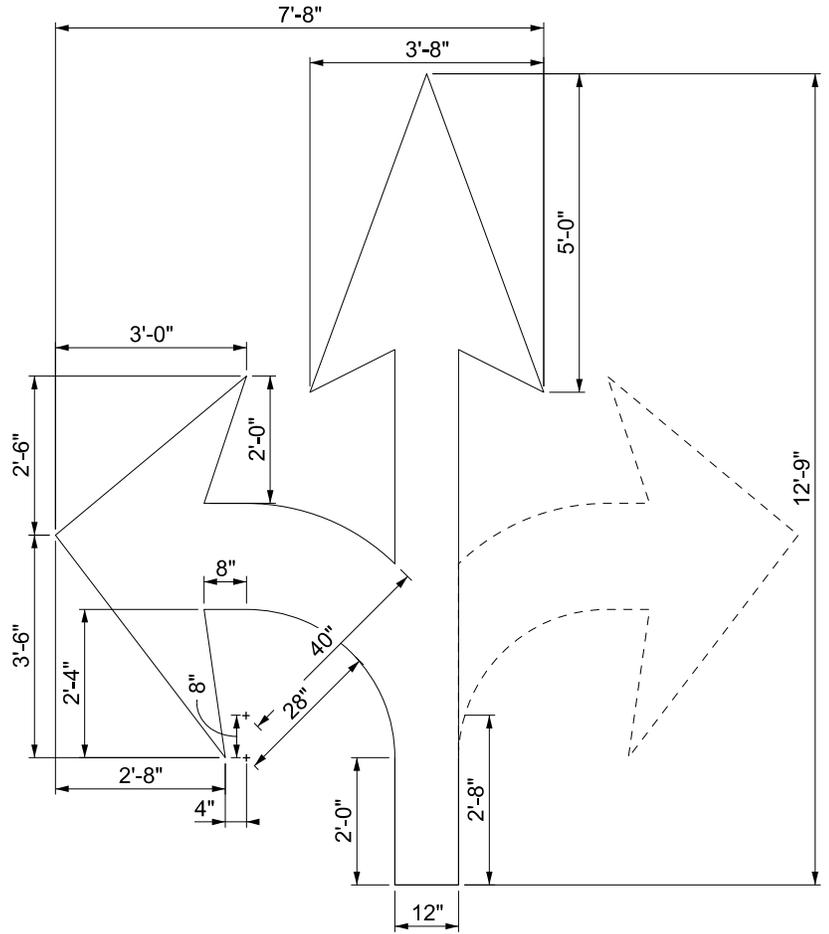
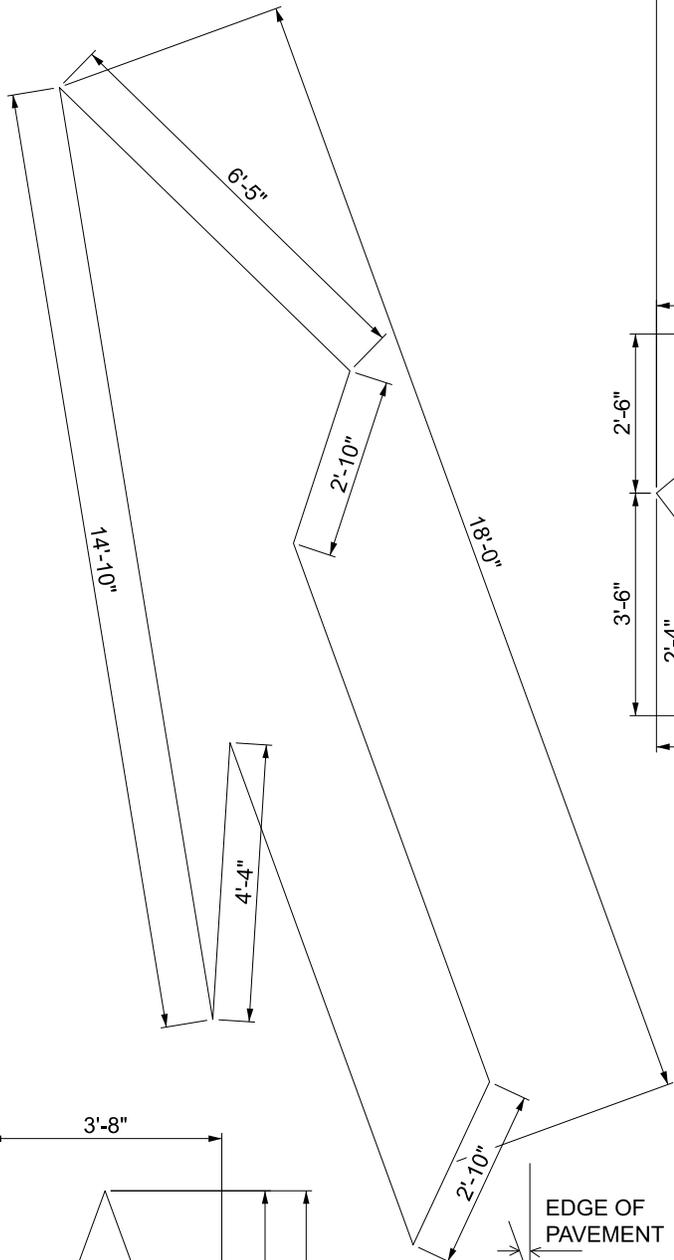
**NOTES:**

1. ALL LETTERS ARE 16 INCHES WIDE UNLESS NOTED OTHERWISE.
2. ALL GAPS BETWEEN LETTERS ARE 4 INCHES UNLESS NOTED OTHERWISE.
3. WHEN PLACED ON A SHARED-USE PATH, REDUCE ALL VERTICAL DIMENSIONS (EXCEPT 2" LIQUID TEMPLATE GAPS) BY HALF.
4. 2" GAPS SHOWN ARE FOR LIQUID TEMPLATES ONLY AND ARE NOT ALLOWED IN TAPE APPLICATIONS.

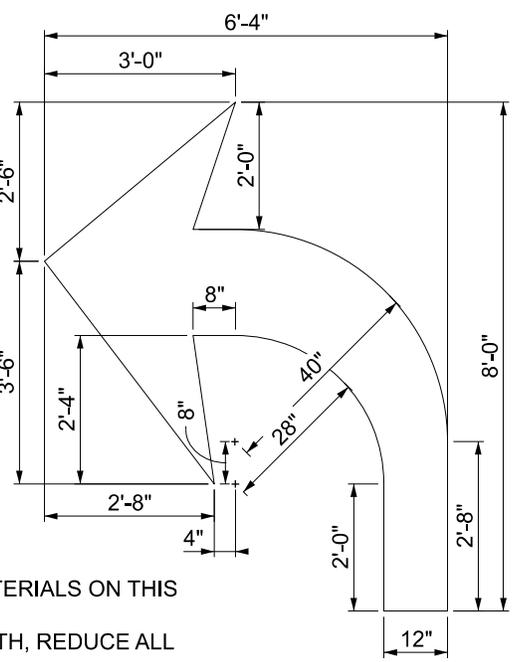


**LEGEND DETAILS**

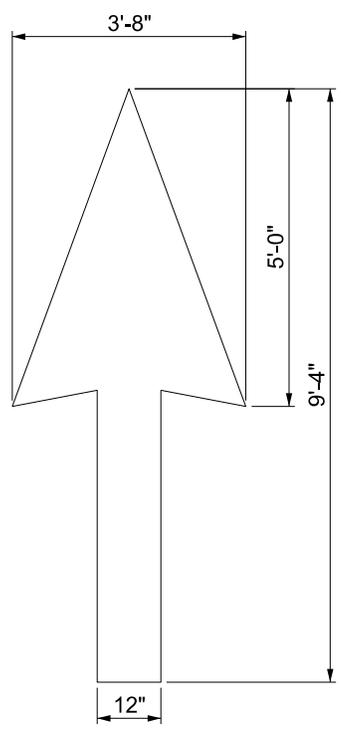
 DEPARTMENT DIRECTOR BRADLEY C. WIEFERICH, PE	STANDARD PLAN FOR PAVEMENT ARROW & MESSAGE DETAILS		PAVE-900-H	SHEET 6 OF 10
	11/22/2023 FHWA APPROVAL	09/13/2023 PLAN DATE		



THRU LEFT/RIGHT ARROW



LEFT TURN ARROW (RIGHT TO BE REVERSED)



THRU ARROW

LEFT MERGE ARROW (RIGHT TO BE REVERSED)



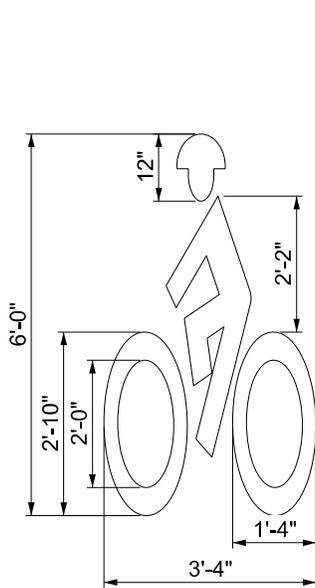
- NOTES:
1. TEMPLATES FOR LIQUID APPLIED MATERIALS ON THIS SHEET DO NOT ALLOW GAPS.
  2. WHEN PLACED ON A SHARED-USE PATH, REDUCE ALL DIMENSIONS BY HALF.

### ARROW DETAILS

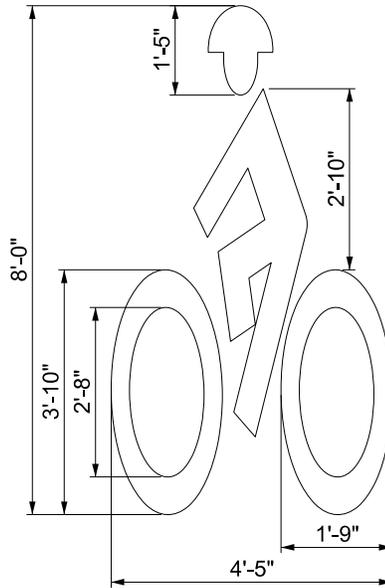
<p>DEPARTMENT DIRECTOR BRADLEY C. WIEFERICH, PE</p>	STANDARD PLAN FOR PAVEMENT ARROW & MESSAGE DETAILS		<p>PAVE-900-H</p>	<p>SHEET 7 OF 10</p>
	<p>11/22/2023 FHWA APPROVAL</p>	<p>09/13/2023 PLAN DATE</p>		

**NOTES:**

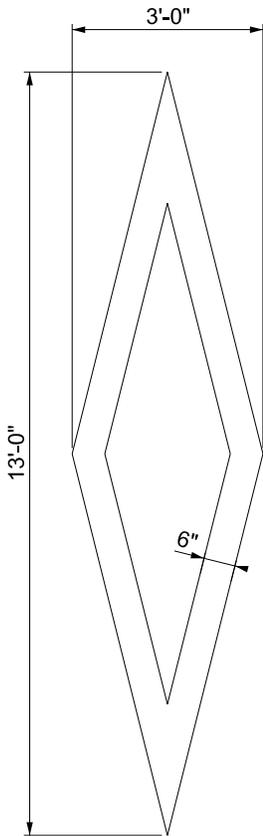
1. TEMPLATES FOR LIQUID APPLIED MATERIALS ON THIS SHEET DO NOT ALLOW GAPS.
2. SMALLER (BIKE LANE/PATH) BICYCLE SYMBOL IS TO BE USED IN BIKE LANES (INCLUDING BIKE LANES ON ROADWAYS), AND ON PATHS/TRAILS.
3. THE LARGER (ROAD) BICYCLE SYMBOL IS INTENDED TO BE USED IN CONJUNCTION WITH THE "XING" LEGEND IN VEHICLE TRAVEL LANES IN ADVANCE OF A BIKE PATH/TRAIL CROSSING THE ROADWAY.



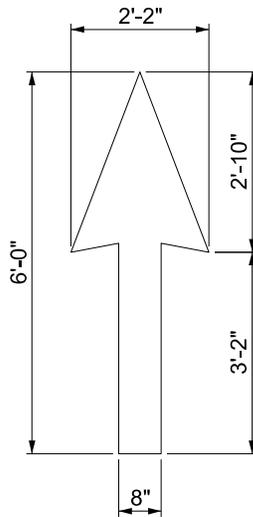
**BIKE LANE/PATH SYMBOL**



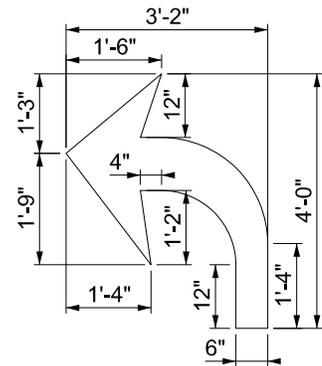
**BIKE ROAD SYMBOL**



**DEDICATED LANE SYMBOL**



**THRU ARROW FOR USE WITH BIKE LANE/PATH BICYCLE SYMBOL**



**LEFT TURN ARROW FOR USE WITH BIKE LANE/PATH BICYCLE SYMBOL (RIGHT TO BE REVERSED)**

**DEDICATED/BIKE LANE SYMBOLS**

<p>DEPARTMENT DIRECTOR BRADLEY C. WIEFERICH, PE</p>	STANDARD PLAN FOR PAVEMENT ARROW & MESSAGE DETAILS		SHEET 8 OF 10
	11/22/2023 FHWA APPROVAL	09/13/2023 PLAN DATE	

NOTES:

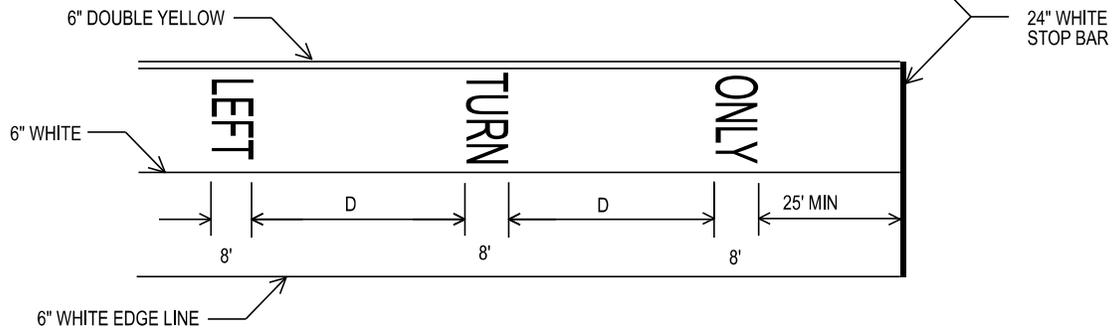
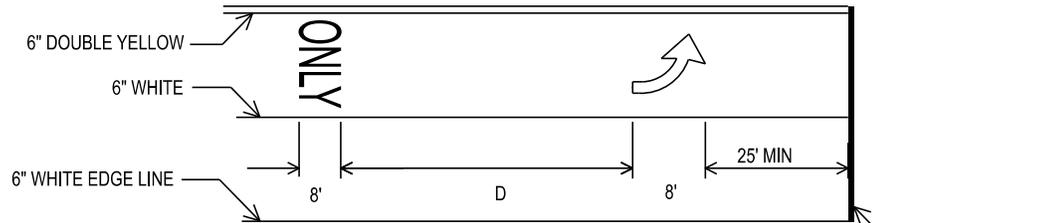
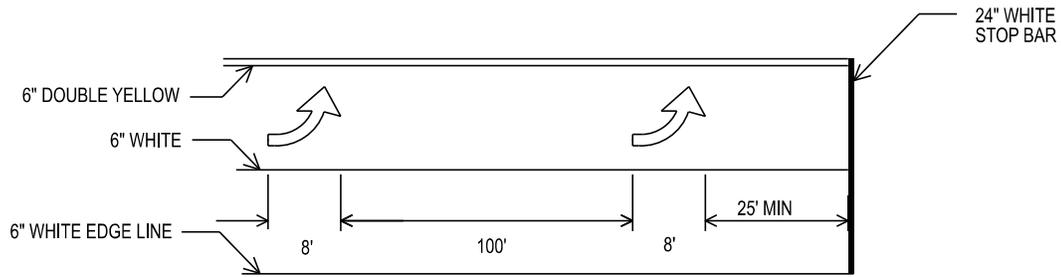
1. MATERIAL PLACEMENT AREAS SHOWN ARE FOR LIQUID-APPLIED SPECIAL MARKINGS, AND REFLECT THE ALLOWABLE TEMPLATE GAPS IN LEGENDS.
2. RAILROAD MARKING AREAS DO NOT INCLUDE THE STOP BAR MARKINGS.

**SPECIAL MARKING AREAS (SFT)**

LEGEND	REMOVAL	RECESSING	MATERIAL	SYMBOL	REMOVAL	RECESSING	MATERIAL
AHEAD	67	70	28.86	ACCESSIBLE	12	13	11.11
BIKE	43	45	22.15	BICYCLE (ROAD)	26	31	10.54
BUS	43	45	18.55	BICYCLE (LANE/PATH)	16	18	5.93
CANADA	78	81	32.87	BIKE TURN ARROW, LT OR RT	4	6	4.11
EAST	54	56	21.71	DEDICATED LANE (HOV)	11	13	10.24
EXIT	56	59	17.76	DIRECT. ARROW (BIKE)	5	7	5.07
LANE	54	56	22.30	LEFT, RIGHT ARROW	29	34	28.99
LEFT	59	62	19.11	LT ROUNDABOUT ARROW	18	23	17.48
MERGE	67	70	33.28	LT, RT, THRU ARROW	41	48	40.26
NO	27	29	12.92	MERGE ARROW	43	47	42.17
NORTH	67	70	29.53	RAILROAD	66	75	60.89
ONLY	56	59	20.90	RAILROAD-ALTERNATE	70	73	59.06
PED	40	43	17.63	RT, LT ROUNDABOUT ARROW	23	29	22.19
RIGHT	59	62	25.10	RT, THRU, LT ROUNDABOUT ARROW	29	38	28.31
SCHOOL	78	81	32.58	SHARROW	21	30	9.26
SOUTH	67	70	27.83	THRU ARROW	13	16	13.16
STOP	56	59	21.50	THRU, LT ROUNDABOUT ARROW	24	31	23.60
TO	27	29	10.43	THRU, LT TURN ARROW	29	34	28.14
TRAIL	62	64	22.10	THRU, RT TURN ARROW	29	34	28.14
TURN	59	62	23.04	TURN ARROW, LT OR RT	17	19	16.42
WEST	62	64	24.42	WRONG WAY ARROW	35	41	34.56
XING	54	56	20.13	YIELD TRIANGLE	3	4	3.00
YIELD	59	61	22.91				

**REMOVAL AND PLACEMENT DETAILS**

 DEPARTMENT DIRECTOR BRADLEY C. WIEFERICH, PE	STANDARD PLAN FOR PAVEMENT ARROW & MESSAGE DETAILS		<b>PAVE-900-H</b>	SHEET 9 OF 10
	11/22/2023 FHWA APPROVAL	09/13/2023 PLAN DATE		



POSTED SPEED (MPH)	DISTANCE "D" (FT)
25 AND BELOW	32
30-35	48
40-45	64
50 AND ABOVE	80

**NOTES:**

1. ALL SPECIAL MARKINGS (ARROW, MESSAGE, AND SYMBOL) SHALL BE WHITE.
2. WHEN ARROW AND PAVEMENT MESSAGE ARE USED TOGETHER, THE ARROW SHOULD BE LOCATED DOWNSTREAM OF THE PAVEMENT MESSAGE AND SEPARATED FROM THE PAVEMENT MESSAGE BY A DISTANCE OF "D" (MEASURED FROM THE TOP OF THE MESSAGE TO THE BASE OF THE ARROW) AS SHOWN ABOVE.
3. WHEN A SERIES OF PAVEMENT MESSAGES ARE USED, THEY SHOULD BE SEPARATED BY A DISTANCE OF "D" RELATED TO THE POSTED SPEED, AS SHOWN IN THE TABLE ABOVE. ALL SYMBOLS AND LEGENDS SHALL BE POSITIONED IN THE CENTER OF THE LANE.

## TYPICAL SPACING OF ARROW AND PAVEMENT MESSAGES