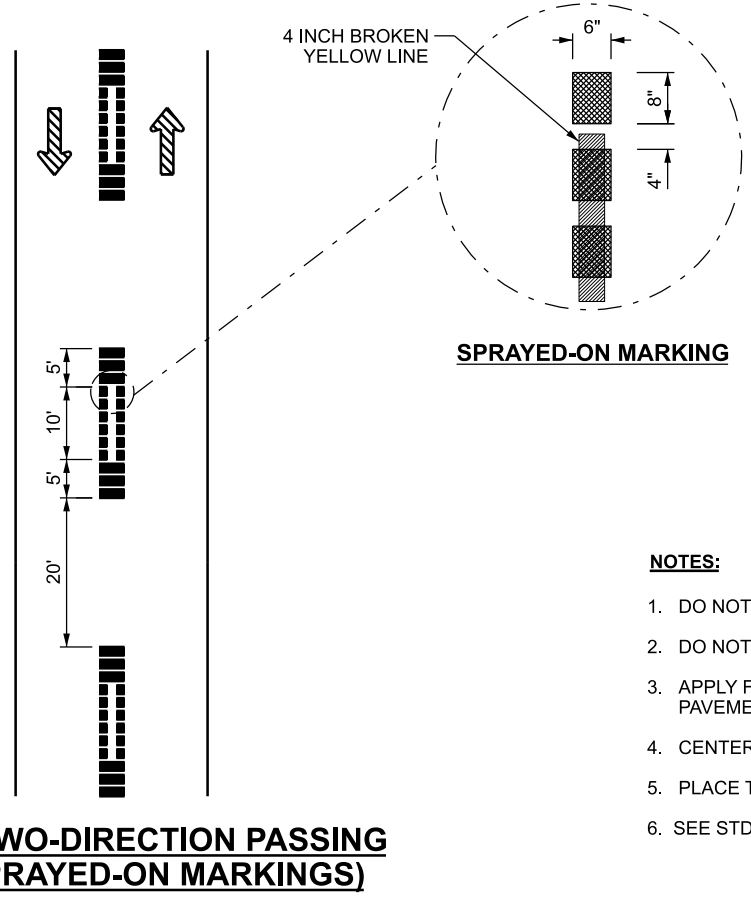
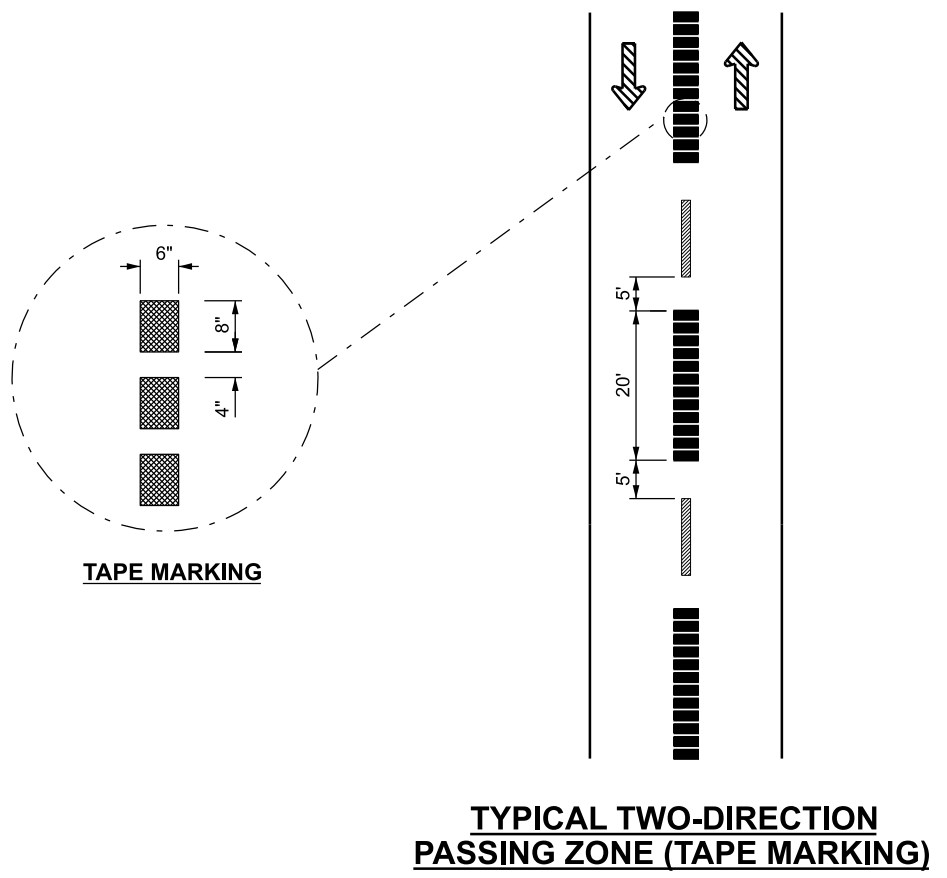
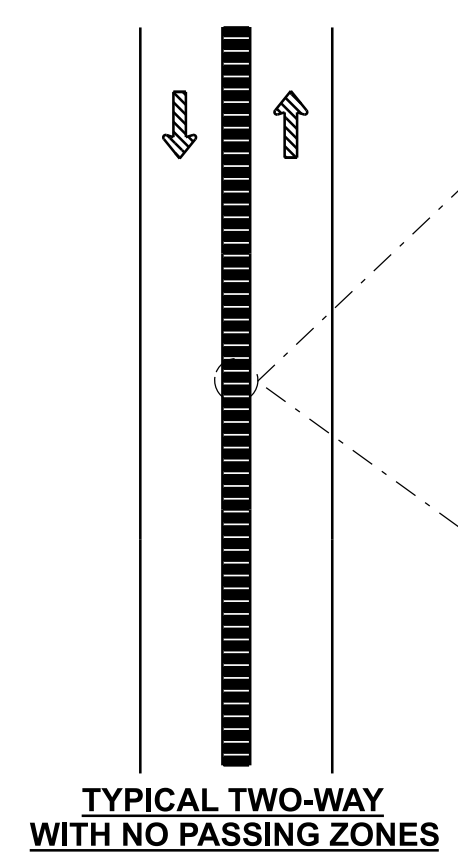
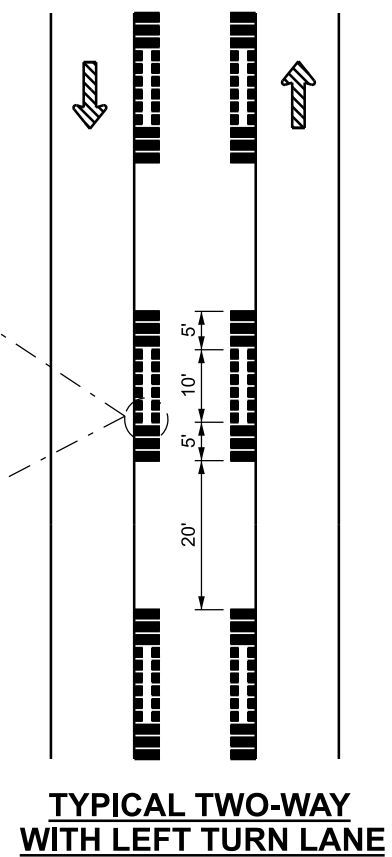
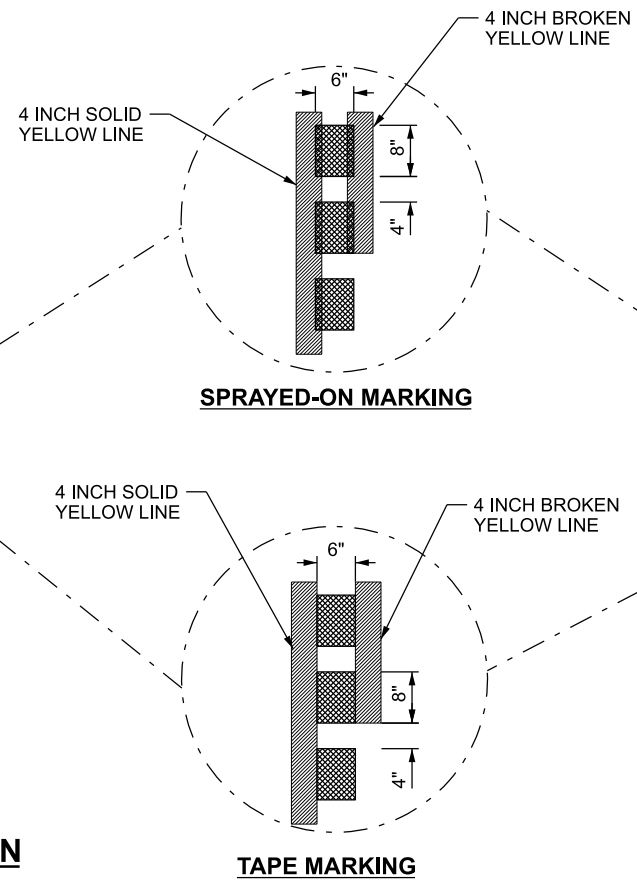
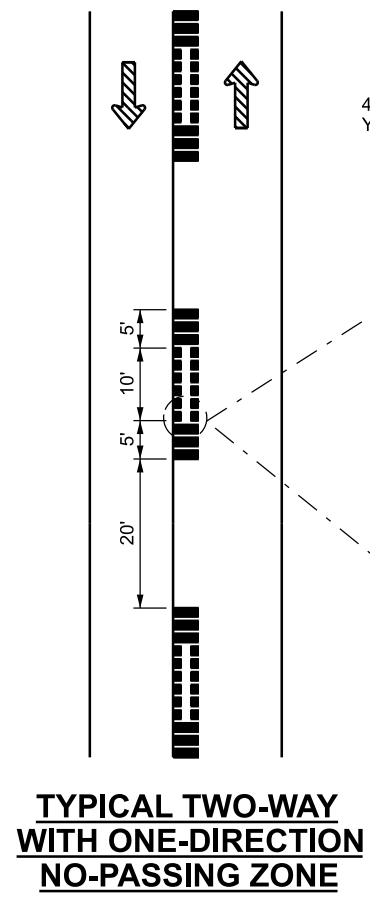


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- NOTES:**
- DO NOT PLACE RUMBLE STRIPS ON STRUCTURES OR APPROACH SLABS.
  - DO NOT PLACE RUMBLE STRIPS WITHIN 6 INCHES OF PCCP TRANSVERSE JOINTS.
  - APPLY FLUSH OR SEAL COAT UNIFORMLY ON ALL RUMBLE STRIPS ON BITUMINOUS PAVEMENT SURFACES. SEE STANDARD SPECIFICATION 02761.
  - CENTER SPRAYED-ON MARKINGS ON RUMBLE STRIPS.
  - PLACE TAPE MARKINGS MIDWAY BETWEEN BROKEN LINES.
  - SEE STD DWG PV 7B FOR CENTERLINE RUMBLE STRIP DETAIL.

NO.	DATE	APPR.	REMARKS

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 SALT LAKE CITY, UTAH  
 STANDARD DRAWING EDITION

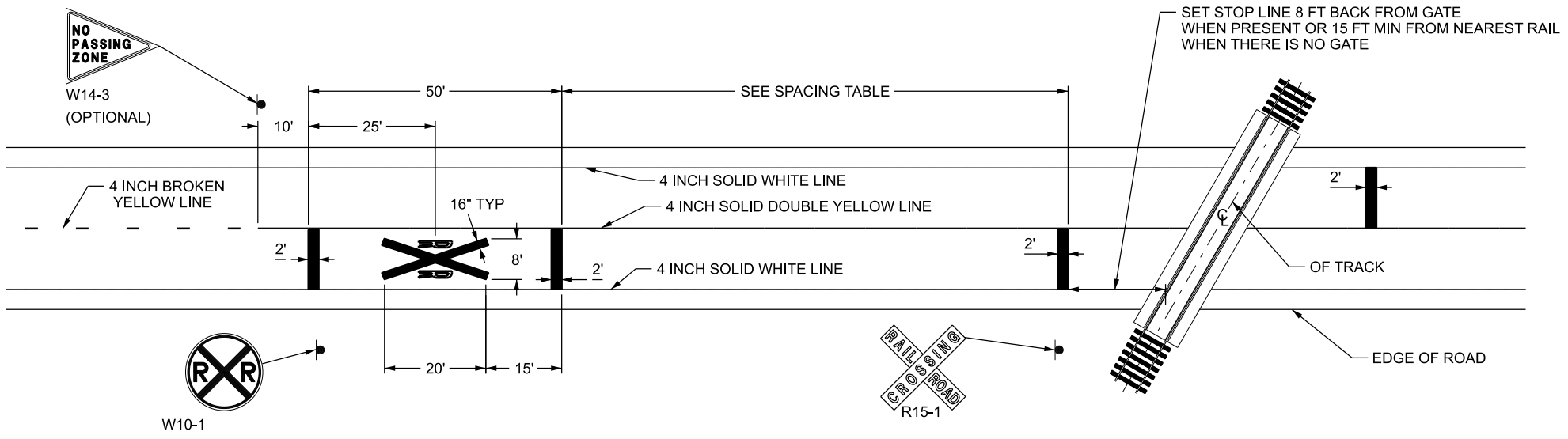
**2024 Standard Drawing**

**TYPICAL RUMBLE STRIP CENTERLINE APPLICATION**

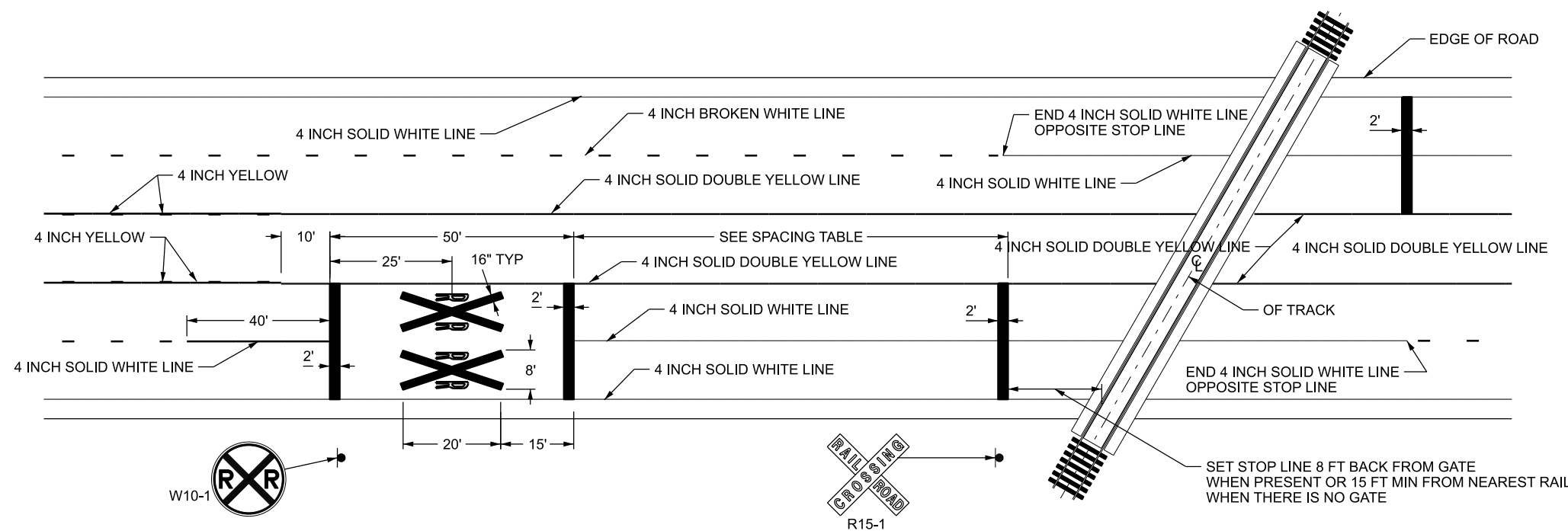
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STD. DWG. NO.  
**PV 8**

5-APR-2023 DCN: F:\er\0:\Standards\SpecSection\2024\_Standards (pub, Spring 2023)\Electronic Books\Master Drawings\Drawings\RR02.dgn



**TWO LANE FACILITY  
DETAIL A**



**MULTI-LANE FACILITY  
DETAIL B**

SPACING TABLE	
SPEED LIMIT MPH	MIN DISTANCE (FT)
65 - 70	750
55 - 60	550
45 - 50	375
35 - 40	225
25 - 30	100

**NOTES:**

1. PLACE PAVEMENT MARKINGS CONSISTING OF AN "RXR," TRANSVERSE LINES, AND NO-PASSING MARKINGS. USE MARKINGS IN EACH APPROACH LANE ON ALL PAVED APPROACHES TO GRADE CROSSING WHERE GRADE CROSSING SIGNALS OR AUTOMATIC GATES ARE PRESENT AND AT ALL OTHER GRADE CROSSINGS WHERE THE POSTED SPEED IS 40 MPH OR GREATER. PLACE PAVEMENT MARKINGS AT OTHER CROSSINGS AS DIRECTED BY THE REGION TRAFFIC ENGINEER.
2. EXTEND TRANSVERSE LINES ACROSS ALL APPROACH LANES ON MULTI-LANE ROADS. USE INDIVIDUAL "RXR" MARKINGS IN EACH APPROACH LANE.
3. USE THE STANDARD HIGHWAY SIGNS AND MARKING BOOK FOR DIMENSIONS OF "RXR" PAVEMENT MARKINGS.
4. SEE STD DWG RR 1 FOR ALL SIGN DETAILS AND INSTALLATION INFORMATION.

NO.	DATE	APPR.	REMARKS

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PAVEMENT MARKINGS  
AT  
RAILROAD CROSSING

STD. DWG. NO.  
RR 2

STANDARD DRAWING TITLE

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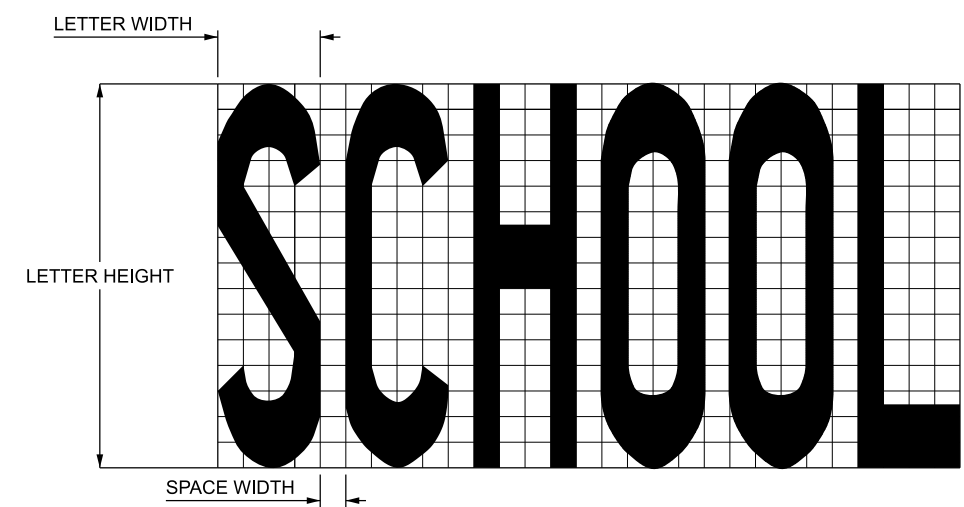
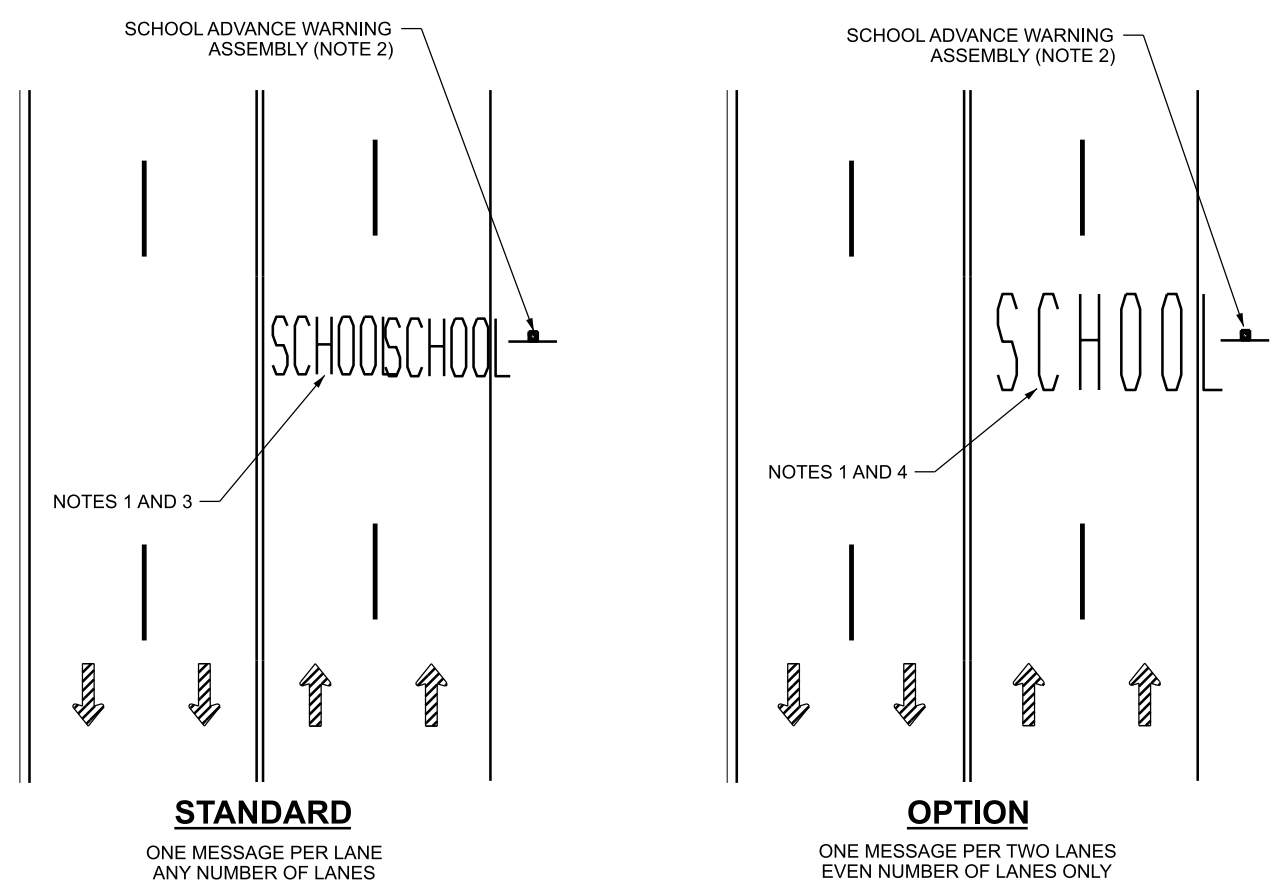
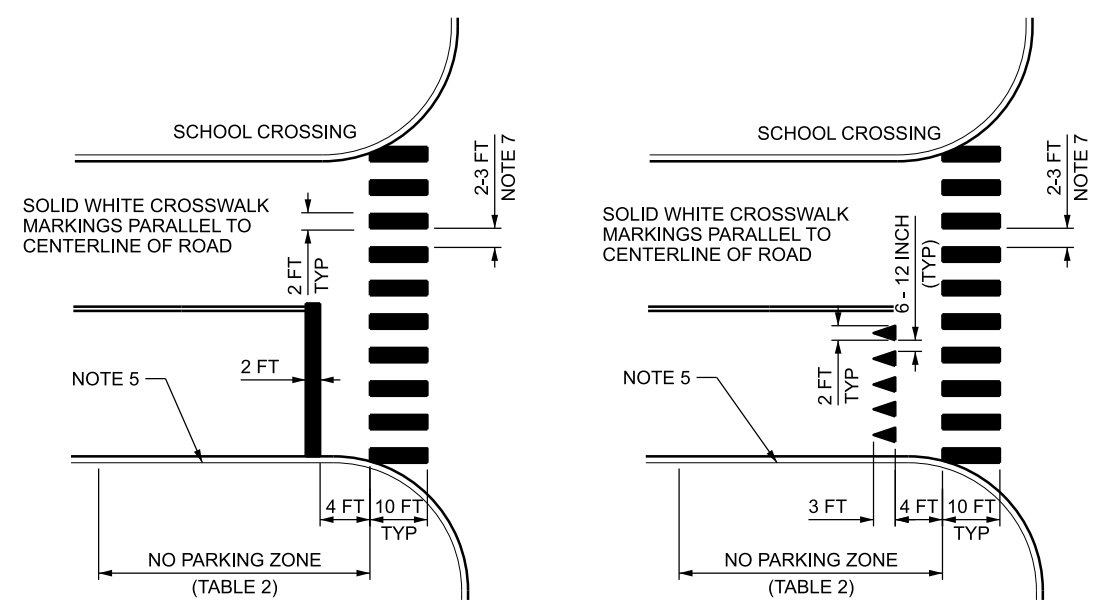


TABLE 1			
RECOMMENDED LETTER SIZES			
ONE-LANE MESSAGE			
LANE WIDTH (FT)	LETTER WIDTH (INCHES)	SPACE WIDTH (INCHES)	MINIMUM LETTER HEIGHT (FT)
12	18	5	6
11.5	17.5	4.5	6
11	16.5	4.25	6
10.5	15.75	4	6
10	15	3.75	6
TWO-LANE MESSAGE			
ALL	32	8	10



**STOP OR SIGNAL CONTROL**

**YIELD CONTROL**

TABLE 2	
NO PARKING ZONE	
SPEED (MPH) (NOTE B)	LENGTH (FT)
25	60
30	85
35	115
40	150
45	190
50	230

- NOTES:**
- PLACE ALL SCHOOL MESSAGES, PAVEMENT MARKINGS, AND SIGNING IN CONFORMANCE WITH THE UTAH TRAFFIC CONTROLS FOR SCHOOL ZONES (SECTION 7 OF THE UTAH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES).
  - PLACE SCHOOL MESSAGE ADJACENT TO SCHOOL ADVANCE WARNING ASSEMBLY.
  - SINGLE LANE MESSAGES (STANDARD):
    - MAXIMUM MESSAGE WIDTH NOT TO EXCEED LANE WIDTH LESS 10 INCHES (FOR EXAMPLE, 12 FT TRAFFIC LANE WIDTH LESS 10 INCHES EQUALS 11 FT 2 INCHES MAXIMUM MESSAGE WIDTH).
    - MESSAGE TO BE COMPLETELY CONTAINED WITHIN TRAFFIC LANE, AND NOT ENCROACH UPON LANE STRIPING OR OTHER PAVEMENT MARKINGS.
  - TWO LANE MESSAGES (OPTIONAL):
    - USE TWO-LANE MESSAGE ONLY WHEN THERE ARE AN EVEN NUMBER OF LANES.
    - USE TWO-LANE MESSAGE UPON APPROVAL OF THE REGION TRAFFIC ENGINEER.
    - ONE-HALF OF MESSAGE TO BE CONTAINED IN EACH TRAFFIC LANE. PAVEMENT MESSAGE TO BE WITHIN GAP OF 4 INCH BROKEN WHITE LINE BETWEEN LANES.
  - RED CURB MARKING IS OPTIONAL FOR "NO PARKING" ZONE.
  - NON-STATE ROUTES MAY USE 9 FT WIDE CROSSWALK MARKINGS.
  - VARY PLACEMENT OF CROSSWALK MARKINGS WITH A SPACING OF 2-3 FT TO AVOID WHEEL PATHS.
  - ESTABLISH A "NO PARKING" ZONE PRIOR TO SCHOOL CROSSING, SEE TABLE 2.

REVISIONS			
NO.	DATE	APPR.	REMARKS
1	8/29/19	MRB	MOVED ALL DESIGNER INFORMATION TO THE UDOT RDM. DELETED ST 4 TO ST 18

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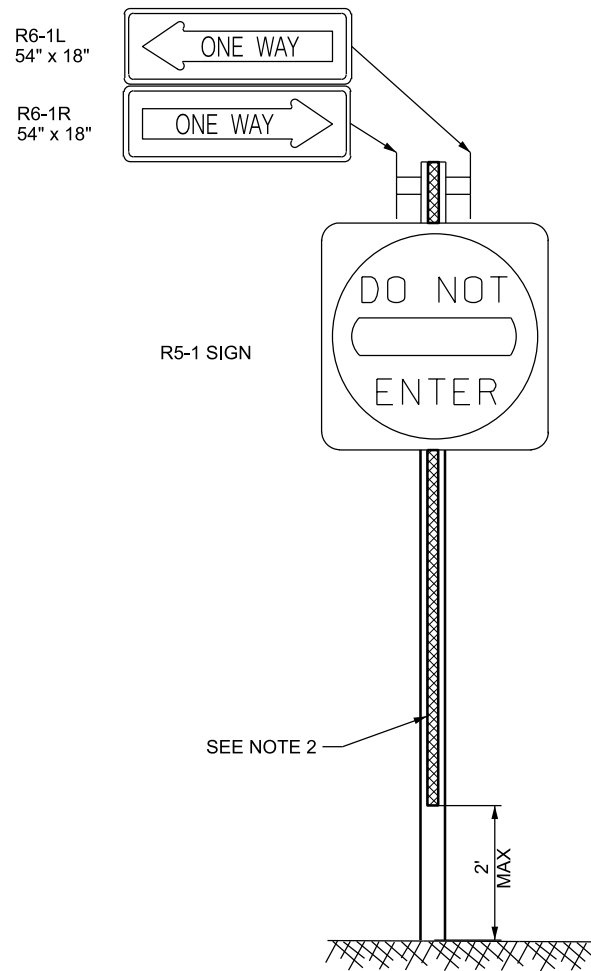
**2024 Standard Drawing**

**SCHOOL CROSSING AND SCHOOL MESSAGE**

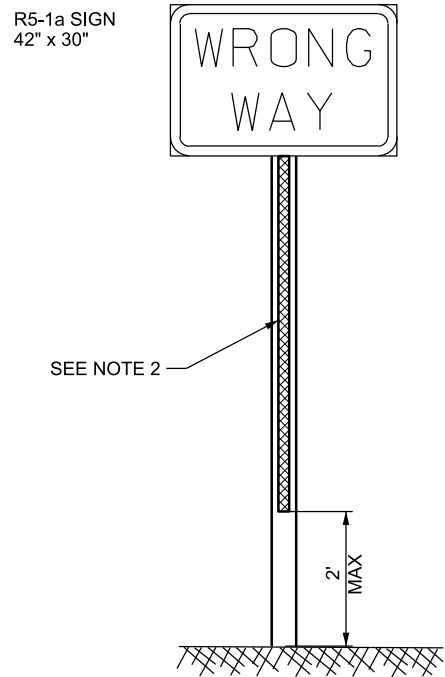
STANDARD DRAWING TITLE

STD. DWG. NO.  
**ST 2**

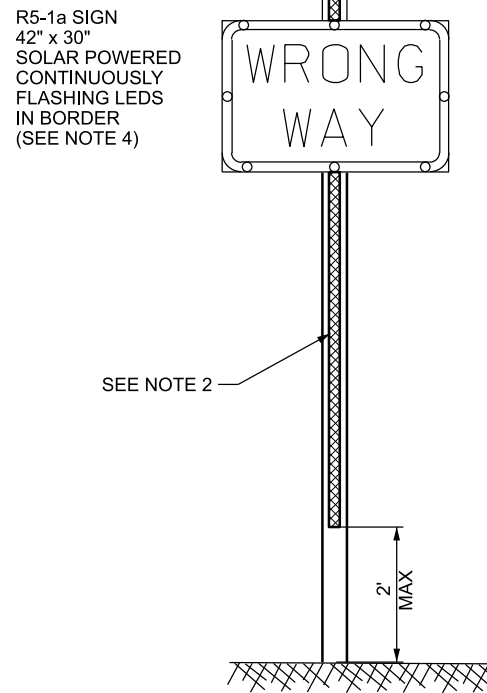
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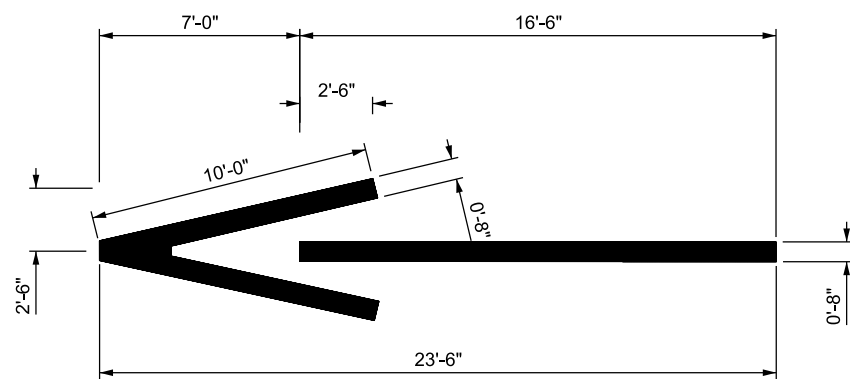
**(A) SIGN DETAIL A**



**(B) SIGN DETAIL B**



**(C) SIGN DETAIL C**



**WRONG-WAY ARROW  
PAVEMENT MARKING DETAIL**

SEE NOTES C, D

**NOTES:**

1. SEE STD DWG SN 2 SERIES FOR MOUNTING HEIGHT AND LATERAL OFFSET REQUIREMENTS.
2. PLACE A 4 INCH WIDE RED RETROREFLECTIVE STRIP ON DO NOT ENTER AND WRONG WAY SIGN POSTS ON THE SIDE FACING THE WRONG WAY TRAFFIC.
3. PLACE RED RETROREFLECTIVE SHEETING OF THE SAME SIZE ON ALL DELINEATION (DELINEATOR POST OR BARRIER MOUNT) ON THE SIDE FACING THE WRONG WAY TRAFFIC FROM THE RAMP TERMINAL TO THE PHYSICAL GORE.
4. USE WHITE OR RED LED'S WITH A MAXIMUM DIAMETER OF 1/4 INCH. USE AN AUTO-DIMMING DEVICE TO REGULATE LED INTENSITY.
5. ORIENT THE DO NOT ENTER (R5-1) SIGN TO FACE ONCOMING/ENTERING TRAFFIC.
6. ORIENT THE DO NOT ENTER (R5-1) SIGN AWAY FROM ADJACENT TRAFFIC WHEN INSTALLED ON A TWO-WAY RAMP.

REVISIONS

NO.	DATE	APPR.	REMARKS
1	11/22/22	JW	UPDATED NOTES AND DETAILS, ADDED SPUI DETAIL
1	2/22/18	CGW	WRONG WAY SIGN SIZE UPDATED FOR CONSISTENCY, NOTES 4 AND 1 UPDATED

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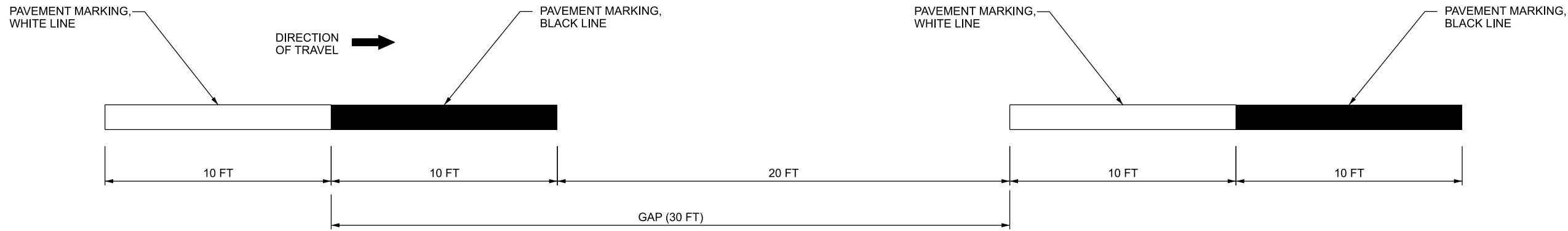
2024 Standard Drawing

WRONG WAY SIGNING,  
DELINEATION, AND  
MARKINGS FOR FREEWAY  
OFF-RAMPS

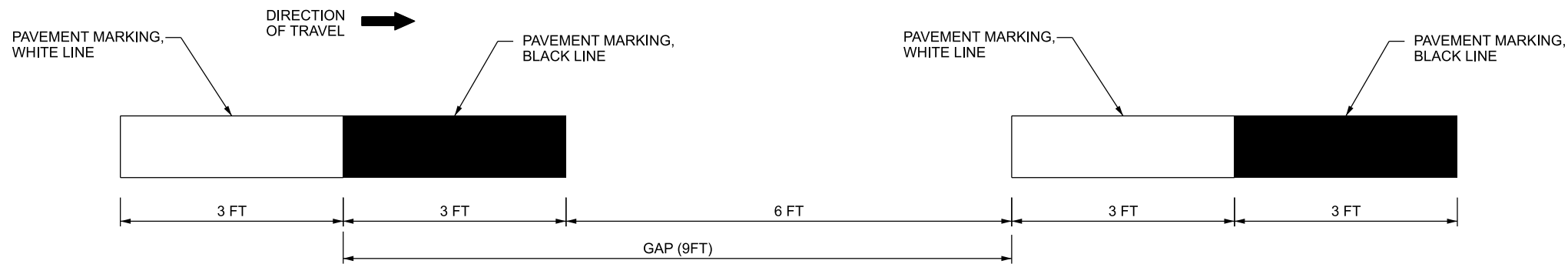
STANDARD DRAWING TITLE

STD. DWG. NO.  
SN 2C

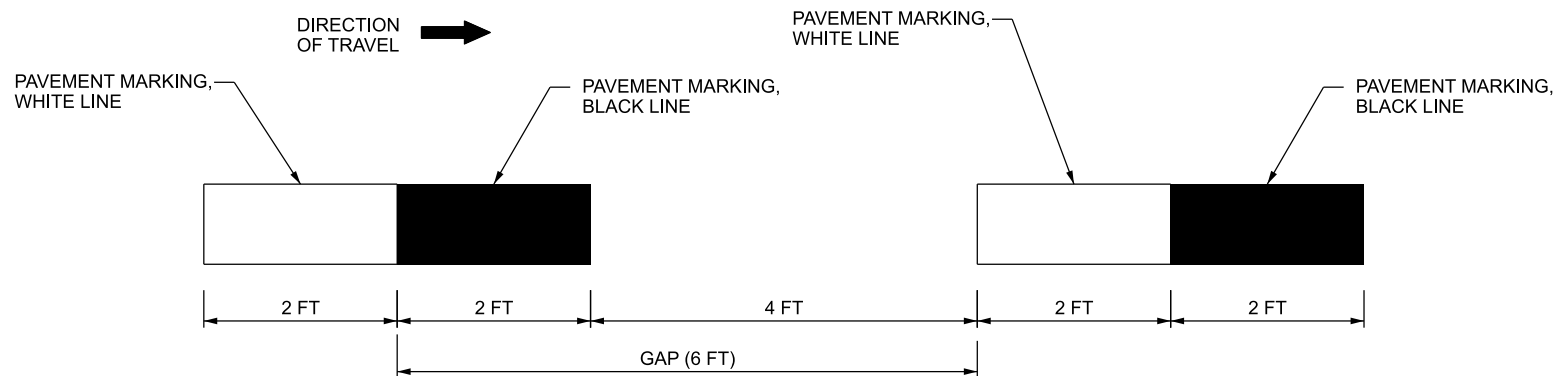
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**WHITE BROKEN LINE  
CONTRAST PAVEMENT MARKING**



**WHITE LANE DROP LINE  
CONTRAST PAVEMENT MARKING**



**WHITE DOTTED LINE  
CONTRAST PAVEMENT MARKING**

**NOTES:**

1. BLACK CONTRAST MARKINGS MUST BE PLACED ON THE DOWNSTREAM SIDE AND MATCH THE THICKNESS AND WIDTH OF THE ABUTTING WHITE LINE, WHEN USED.

REVISED NOTES, CHANGED SHEET NUMBER FROM		NO.	DATE	APPR.	REMARKS
1	MRB	8/29/19	ST 9 TO ST 3		
2	JTW	7/20/21	UPDATED TO LEAD LAG STYLE OF CONTRAST		

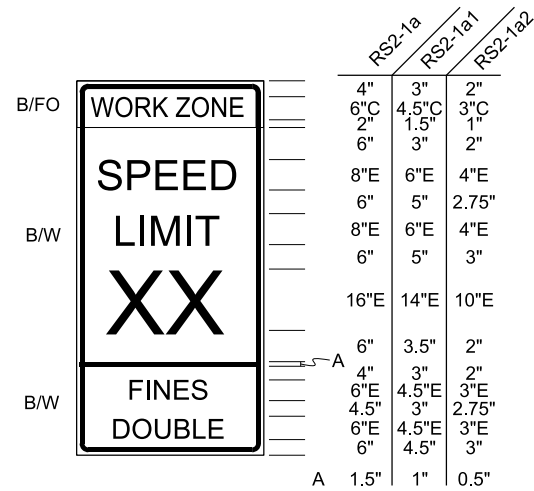
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**2024 Standard Drawing**

**CONTRAST PAVEMENT MARKINGS**

STANDARD DRAWING TITLE

STD. DWG. NO.  
**ST 3**



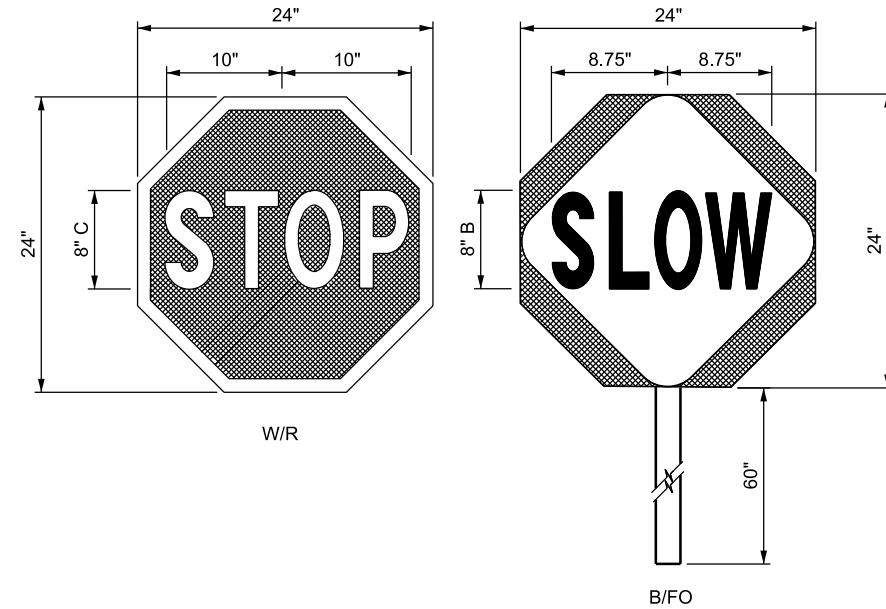
RS2-1a - 48 X 96 INCHES FREEWAY AND EXPRESSWAY  
 RS2-1a1 - 36 X 72 INCHES CONVENTIONAL MULTI LANE  
 RS2-1a2 - 24 X 48 INCHES CONVENTIONAL SINGLE LANE

**RS2-1a SERIES WORK ZONE  
SPEED LIMIT SIGNS**



**RS16-4b WORK ZONE  
FENDER BENDER SIGN**

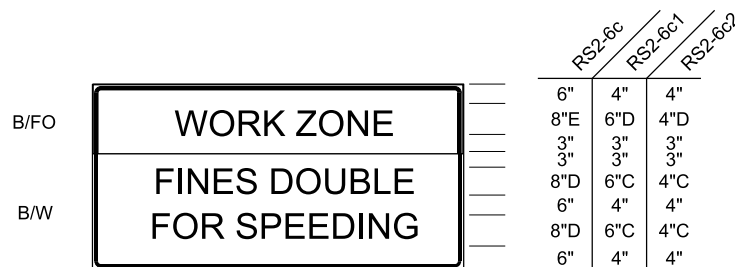
OPTIONAL, SEE NOTE 1



RS1-1 STOP SIGN

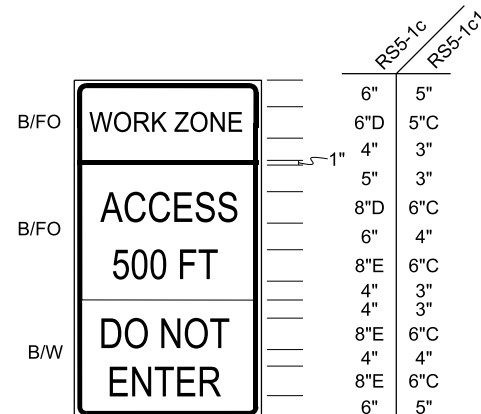
WS20-8a SLOW SIGN

**FLAGGER STOP - SLOW PADDLE**



RS2-6c - 96 X 48 INCHES OVERSIZED  
 RS2-6c1 - 60 X 36 INCHES 45 MPH AND GREATER  
 RS2-6c2 - 42 X 30 INCHES 40 MPH AND LESS

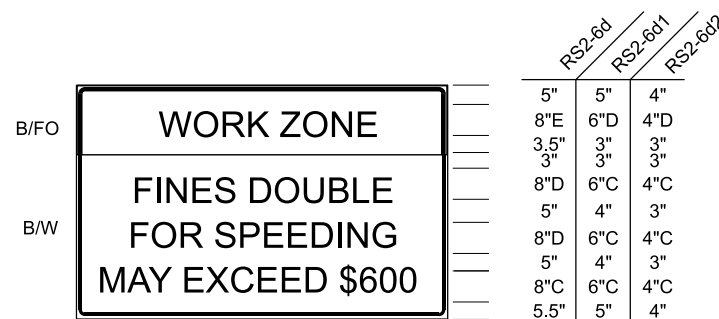
**RS2-6c SERIES WORK ZONE  
FINES DOUBLE SIGNS**



RS5-1c - 60 X 78 INCHES FREEWAY AND EXPRESSWAY  
 RS5-1c1 - 36 X 60 INCHES CONVENTIONAL

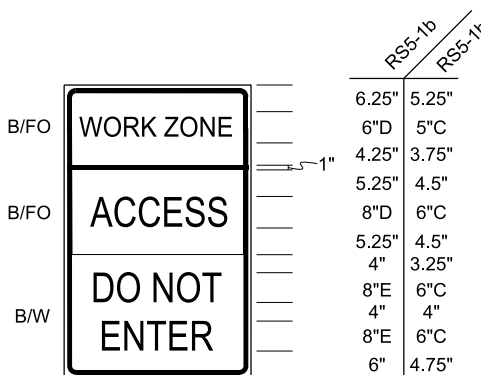
**RS5-1c SERIES WORK ZONE  
ACCESS ADVANCE SIGNS**

SEE NOTE 2



RS2-6d1 - 78 X 48 INCHES 45 MPH AND GREATER  
 RS2-6d2 - 54 X 36 INCHES 40 MPH AND LESS

**RS2-6d SERIES WORK ZONE FINES DOUBLE  
SIGN WITH FINE NOTIFICATIONS**



RS5-1b - 60 X 66 INCHES FREEWAY AND EXPRESSWAY  
 RS5-1b1 - 36 X 54 INCHES CONVENTIONAL

**RS5-1b SERIES WORK ZONE  
ACCESS SIGNS**

**NOTES:**

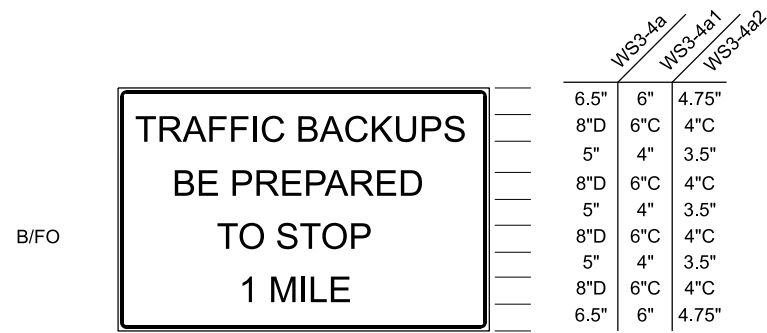
1. USE THE WORK ZONE FENDER BENDER SIGN TO REQUIRE MOTORISTS TO MOVE THEIR VEHICLE OUT OF THE TRAFFIC LANES AND TO THE NEXT EXIT IF THEY HAVE BEEN INVOLVED IN A CRASH.
2. RECOMMENDED DISTANCE TO ACCESS 500 FT FREEWAY AND EXPRESSWAY AND 250 FT CONVENTIONAL ROADS.
3. PLACE TWO FLUORESCENT ORANGE STRIPS OF RETROREFLECTIVE SHEETING, 4 x 24 INCHES, WITHIN 12 INCHES FROM THE RIGHT AND LEFT EDGES ON THE BACK OF SIGNS USED WITH PORTABLE SUPPORTS.

NO.	DATE	APPR.	REMARKS

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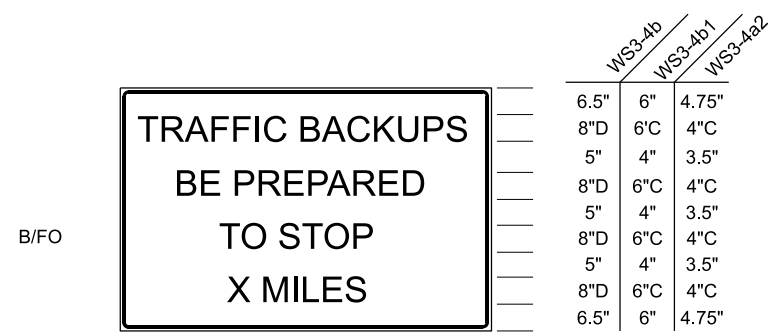
**WORK ZONE  
SPECIALTY  
SIGNS**  
 STANDARD DRAWING TITLE

STD. DWG. NO.  
**TC 4D1**



WS3-4a - 114 X 60 INCHES FREEWAY AND EXPRESSWAY  
 WS3-4a1 - 72 X 48 INCHES CONVENTIONAL 45 MPH AND GREATER  
 WS3-4a2 - 54 X 36 INCHES CONVENTIONAL 45 MPH AND LESS

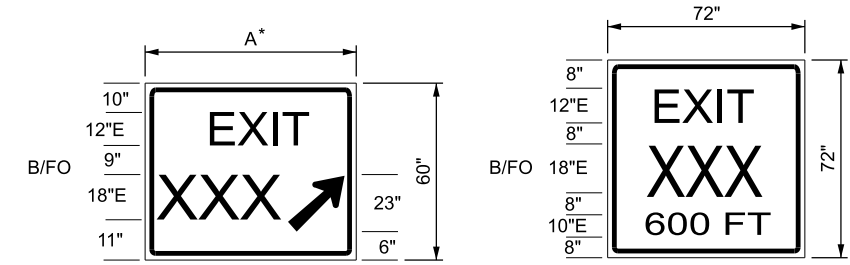
**WS3-4a SERIES**



WS3-4b - 114 X 60 INCHES FREEWAY AND EXPRESSWAY  
 WS3-4b1 - 72 X 48 INCHES CONVENTIONAL 45 MPH AND GREATER  
 WS3-4b2 - 54 X 36 INCHES CONVENTIONAL 45 MPH AND LESS

**WS3-4b SERIES**

**WS3-4 SERIES TRAFFIC BACKUP SIGNS**

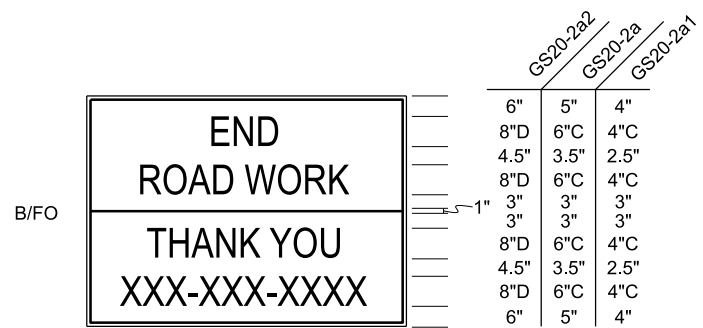


**E5-1aW SERIES**  
**ES5-1dW SERIES**

\* SEE TABLE 1 FOR WIDTH

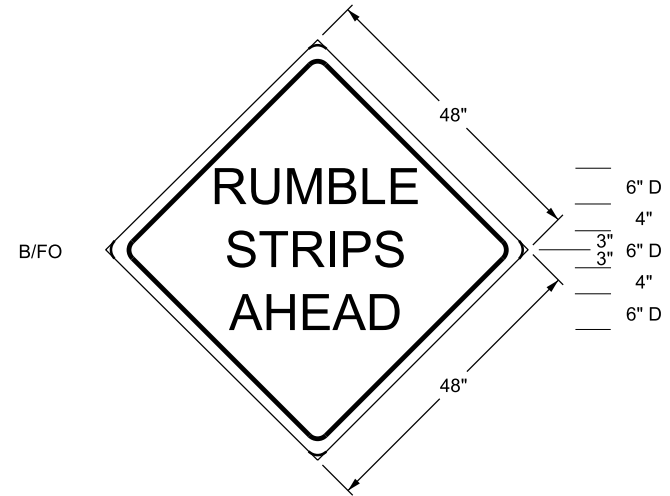
**ES5-1W SERIES WORK ZONE EXIT SIGNS**

XXX EXIT NUMBER



GS20-2a2 - 84 X 60 INCHES OVERSIZED  
 GS20-2a - 60 X 48 INCHES FREEWAY AND EXPRESSWAY  
 GS20-2a1 - 42 X 36 INCHES CONVENTIONAL  
 XXX CONTRACTOR'S PHONE NUMBER  
 NO INTERNET OR EMAIL ADDRESSES

**GS20-2a SERIES END ROAD WORK INFORMATION SIGNS**



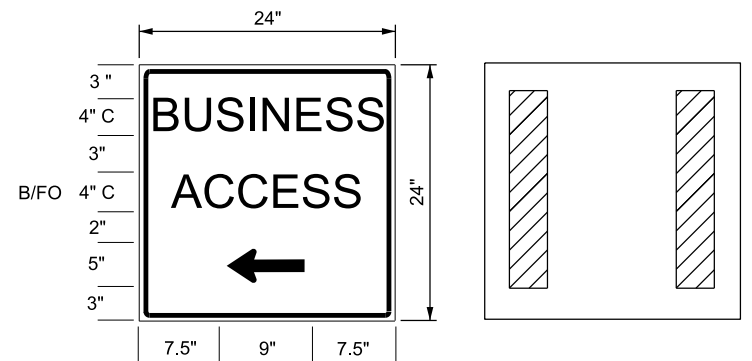
**WS28-1 RUMBLE STRIPS AHEAD SIGN**

SIGN WIDTH		
	NUMBER OF DIGITS	A
ES5-1aW1	X	78 INCHES
ES5-1aW2	XX	78 INCHES
ES5-1aW3	XXX	96 INCHES

**ES5-1aW SERIES WORK ZONE EXIT GORE SIGNS**

**TABLE 1**

**GS20-2a SERIES END ROAD WORK INFORMATION SIGNS**

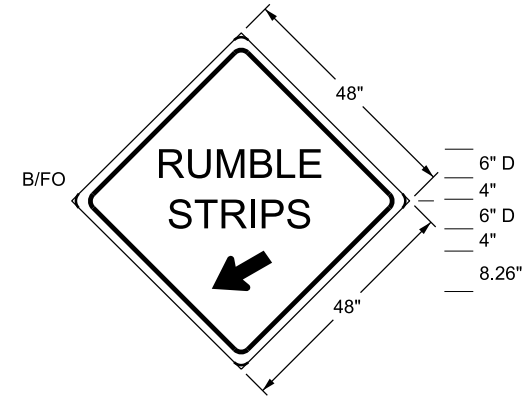


**FRONT**  
 USE BLACK LEGEND ON FLUORESCENT ORANGE RETROREFLECTIVE SHEETING.

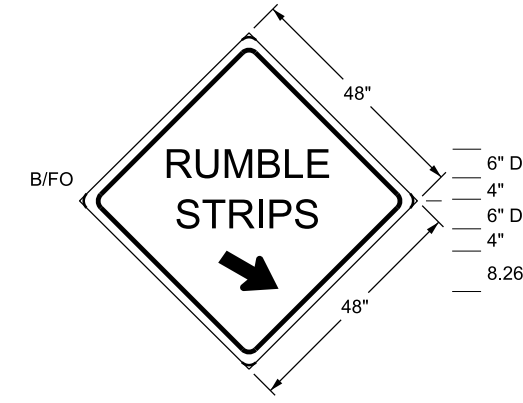
**BACK**  
 PLACE TWO 4 X 18 INCHES FLUORESCENT ORANGE RETROREFLECTIVE STRIPS VERTICALLY ON THE SIGN BACK.

**GS20-5 SERIES BUSINESS ACCESS SIGNS**

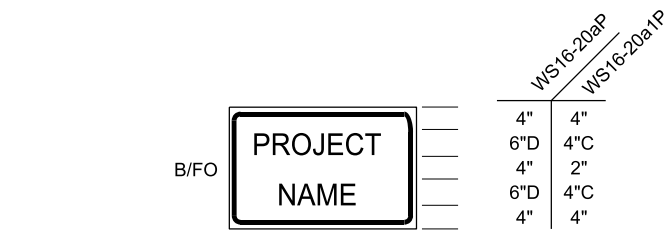
LEFT ARROW SHOWN



**RUMBLE STRIPS (WS28-2L) SIGN**



**RUMBLE STRIPS (WS28-2R) SIGN**



WS16-20aP - 60 X 24 INCHES FREEWAY AND EXPRESSWAY  
 WS16-20a1P - 36 X 18 INCHES CONVENTIONAL

**WS16-20aP SERIES WORK ZONE ACCESS PROJECT IDENTIFIER PLAQUES**

SEE NOTE 1

**NOTES:**

1. USE PROJECT IDENTIFIER ONLY. DO NOT INCLUDE PROMOTIONAL OR OTHER INFORMATIONAL IDENTIFICATIONS OF PUBLIC OFFICIALS, CONTRACTORS, ORGANIZATIONAL AFFILIATIONS, RELATED LOGOS AND SYMBOLS.
2. PLACE TWO FLUORESCENT ORANGE STRIPS OF RETROREFLECTIVE SHEETING, 4 X 24 INCHES, WITHIN 12 INCHES FROM THE RIGHT AND LEFT EDGES ON THE BACK OF SIGNS USED WITH PORTABLE SUPPORTS.

NO.	DATE	APPR.	REMARKS
1	6/28/18		REPLACED WS28-2 AND W16-7 ASSEMBLY WITH NEW WS28-2 SIGN.

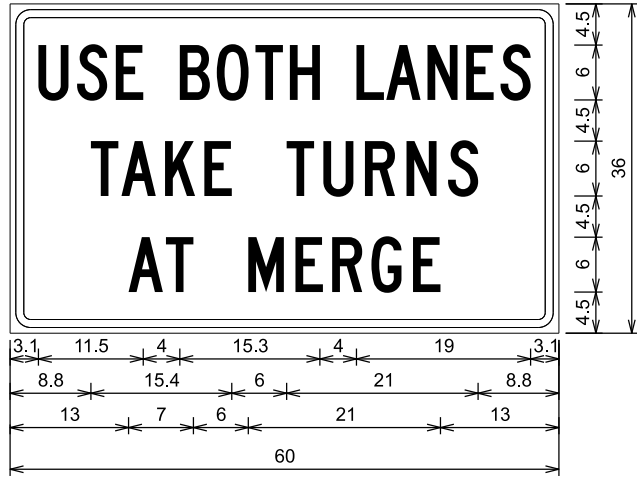
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**2024 Standard Drawing**

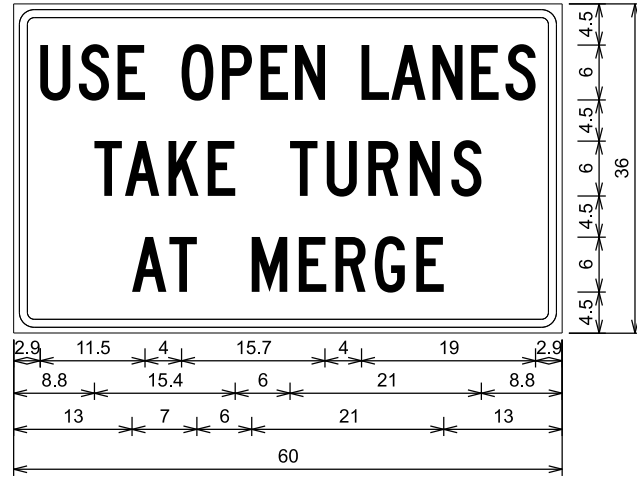
WORK ZONE SPECIALTY SIGNS

STANDARD DRAWING TITLE

STD. DWG. NO.  
 TC 4D2



2.3" Radius, 0.9" Border, 0.6" Indent, Black on Orange;  
 "USE", C 75% spacing; "BOTH", C 75% spacing;  
 "LANES", C 75% spacing; "TAKE TURNS", C;  
 "AT MERGE", C;



2.3" Radius, 0.9" Border, 0.6" Indent, Black on Orange;  
 "USE", C 75% spacing; "OPEN", C 75% spacing;  
 "LANES", C 75% spacing; "TAKE TURNS", C;  
 "AT MERGE", C;

REVISIONS		NO.	DATE	APPR.	REMARKS

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STANDARD DRAWING EDITION  
 2024 Standard Drawing

ZIPPER MERGE SIGN  
 DETAIL  
 STANDARD DRAWING TITLE

STD. DWG. NO.  
 TC 4D3