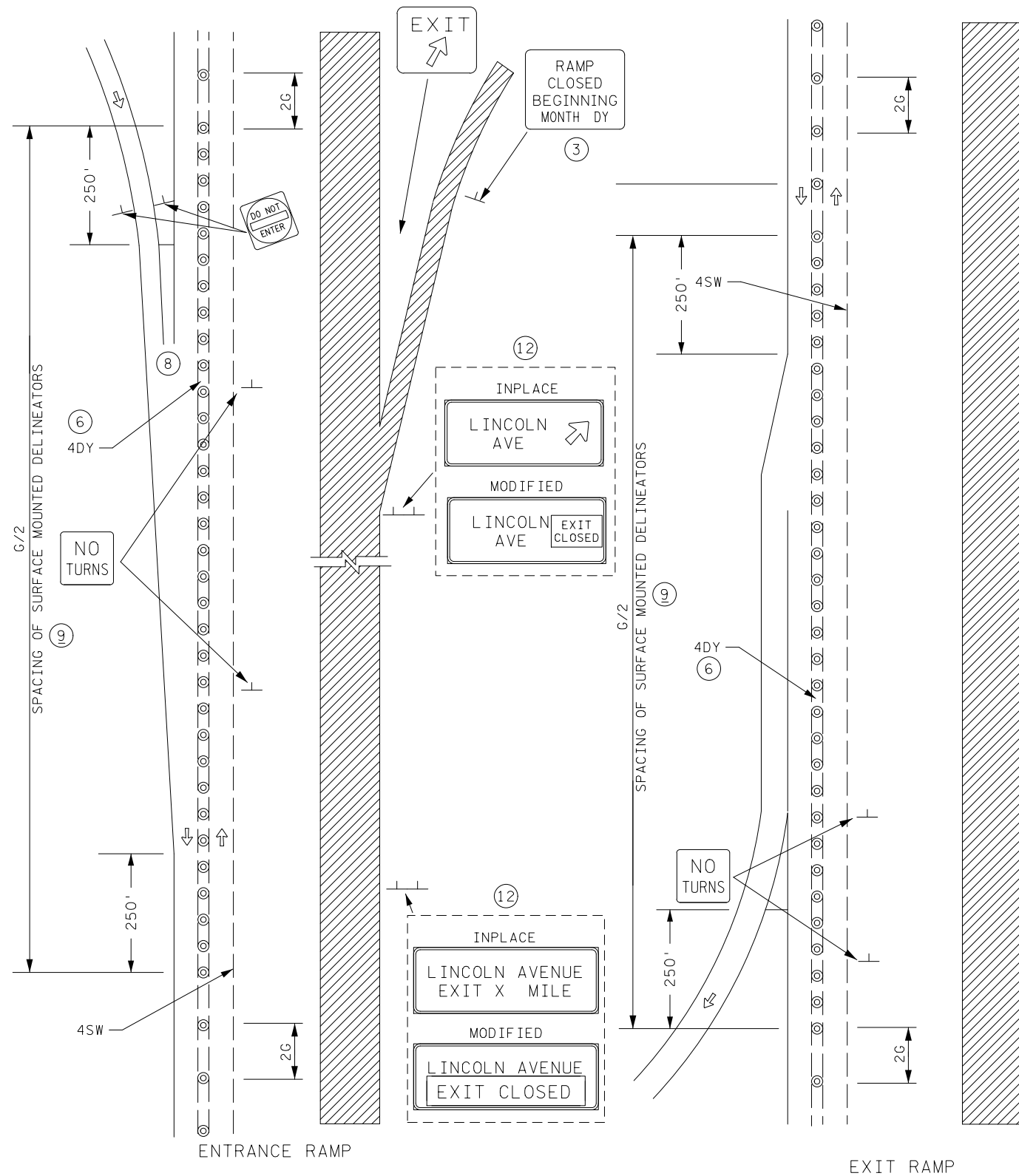


NOT TO SCALE



TWO-LANE, TWO-WAY OPERATIONS
AT RAMPS ON OPEN ROADWAY

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	SPACING OF CHANNELIZING DEVICES (G) FEET	SPACING OF ADVANCE WARNING SIGNS (A) FEET	DECISION SIGHT DISTANCE FEET	TAPER LENGTH (L) FEET	SHIFTING TAPER (L/2) FEET	TYPICAL SHOULDER TAPER (L/3) FEET	BUFFER SPACE (B) FEET
0 - 30	25	100	550	200	100	75	200
35 - 40		325	700	325	175	125	305
45 - 50	50	600	900	600	300	200	425
55		750	1200	700	350	250	500
60 - 65		1000	1400	800	400	275	650
70 - 75		1200	1600	900	450	300	820

ALL DISTANCES BASED ON 12 FT LANE WIDTHS.

DESIGNER NOTES:

TYPICAL APPLICATION FOR REFERENCE ONLY, NOT TO BE INSERTED INTO PLAN.

1. INSERT SPACING CHART DISTANCES INTO LAYOUTS.
2. CONSIDER THE INSTALLATION OF A PCMS AND/OR G20-X2 OR SPECIAL SIGN, IF CONGESTION IS EXPECTED, IF ADVANCE SIGNING TO DIVERT TRAFFIC IS NEEDED OR OTHER CONDITIONS DETERMINED BY THE ENGINEER.
3. INSTALL A PCMS AND/OR G20-X1 SIGN (MODIFIED) OR G20-X2 SIGN FOR SEVEN DAY ADVANCE WARNING OF RESTRICTION.
4. FOR ANY EXCAVATION OR DROP-OFF IN EXCESS OF 12 IN, SEE THE MINNESOTA DEPARTMENT OF TRANSPORTATION "TEMPORARY BARRIER GUIDANCE MANUAL".
5. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE WET REFLECTIVE MATERIAL.
6. MAY SUBSTITUTE 4' DOUBLE SOLID YELLOW WITH TEMPORARY RAISED PAVEMENT MARKERS (2 DOUBLE SIDED TRPM'S SIDE BY SIDE 4" APART, AT 10' INTERVALS).
7. MASK OR REMOVE ALL CONFLICTING PAVEMENT MARKINGS. DETERMINE QUANTITY OF MARKINGS TO BE MASKED OR REMOVED FOR PAY ITEM QUANTITIES.
8. GORE STRIPE MAY NEED TO BE ADJUSTED. USE 8 IN SOLID LINE WHITE WET REFLECTIVE.
9. SPACING FOR SURFACE MOUNTED DELINEATORS ARE G/2 FOR 250' IN ADVANCE OF GORES, ACCEL/DECCEL LANES, CROSSOVERS AND INTERSECTIONS. SPACING FOR SURFACE MOUNTED DELINEATORS MAY BE INCREASED TO 2G WHEN GREATER THEN 250' FROM GORES ACCEL/DECCEL LANES, CROSSOVERS AND INTERSECTIONS.
10. COVER OR REMOVE ALL CONFLICTING INPLACE SIGNING.
11. LIST ALL CONFLICTING INPLACE SIGNING THAT MUST BE MODIFIED, COVERED, AND/OR REMOVED. INCLUDE SIGN MODIFICATIONS, COVERS AND/OR REMOVALS IN THE TRAFFIC CONTROL PLAN. PREPARE SPECIAL SIGN DESIGN LAYOUT SHEET(S).
12. MODIFY INPLACE GUIDE SIGNS WITH "EXIT CLOSED" OVERLAYS. MAY BE EITHER GROUND OR OVERHEAD MOUNTED.

4DY = 4 INCH DOUBLE SOLID LINE YELLOW WET REFLECTIVE
4SW = 4 INCH SOLID LINE WHITE WET REFLECTIVE

⊙ SURFACE MOUNTED DELINEATOR

— — — TEMPORARY WET REFLECTIVE PAVEMENT MARKING.