

PROJECT NO.	SHEET NO.
AFE-G010	1
▲ CONTRACT ID.	M7047
▲ CONTRACT ID.	
■ CONTRACT ID.	

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4	5" PAVEMENT MARKING PLAN

STANDARD PLANS

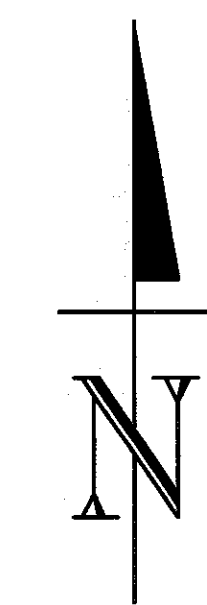
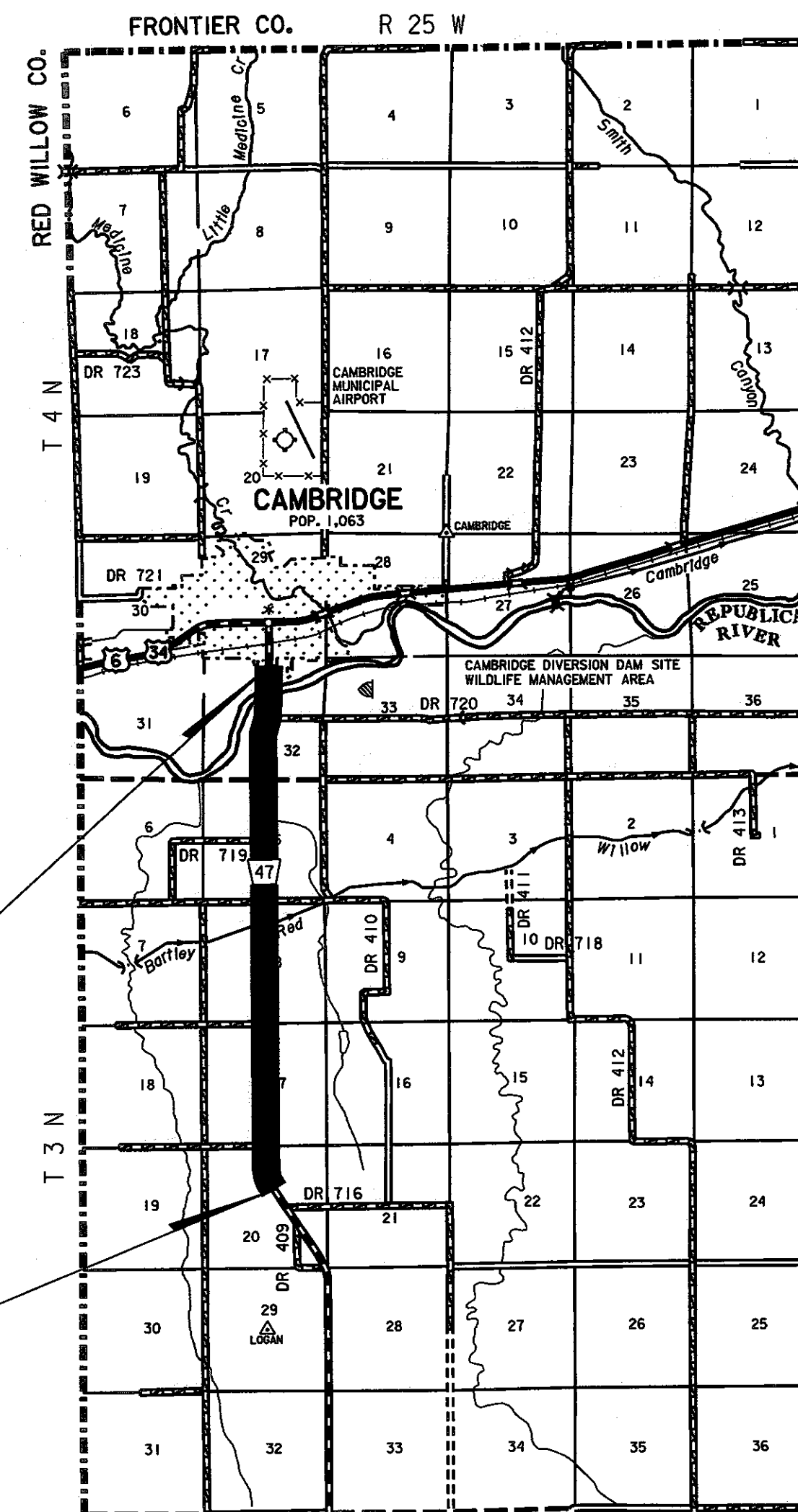
920-R6	(3 SHEETS) TRAFFIC CONTROL, CONSTRUCTION AND MAINTENANCE
922-R9	(2 SHEETS) TRAFFIC CONTROL FOR ASPHALT SURFACING
924-R1	(3 SHEETS) URBAN TRAFFIC CONTROL PLAN

STATE OF NEBRASKA
DEPARTMENT OF ROADS
PLANS FOR CONSTRUCTION
N-47
CAMBRIDGE SOUTH
FURNAS COUNTY

THE 2007 EDITION OF THE NEBRASKA STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS APPLY TO THIS PROJECT.

THE WORK ON THIS PROJECT CONSISTS OF GROUPS	
9-BITUMINOUS	
▲ GROUPS	9 ARE INCLUDED
IN THE LETTING OF	NOVEMBER 13, 2014
▲ GROUPS	ARE INCLUDED
IN THE LETTING OF	
■ GROUPS	ARE INCLUDED
IN THE LETTING OF	

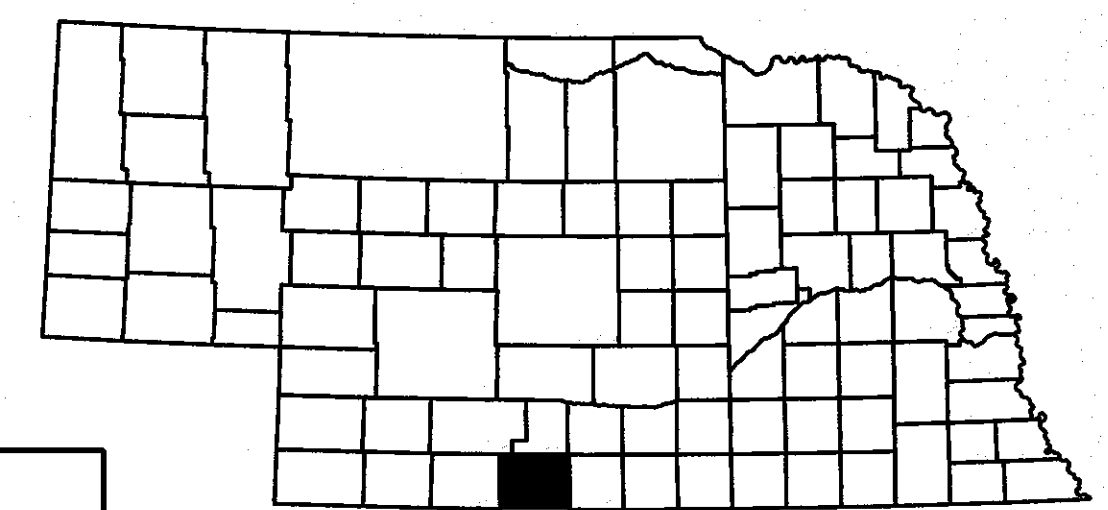
DESIGN DESIGNATION
MAINTENANCE
TRAFFIC
YEAR: 2015
ADT: 505



EQUATION
R.P. 11+39 BK = R.P. 12+00 AH

END PROJECT
REFERENCE POST 12+79

BEGIN PROJECT
REFERENCE POST 7+70



CONVENTIONAL SIGNS

FENCE R.O.W. OR WIRE	
GUARDRAIL	
TRAVELED WAY	
DIKE	
CULVERT	
POWER POLE	
TELEPHONE POLE	
MAILBOX	
RAILROAD TRACKS	
MARSH	
TREE - CONIFEROUS	
TREE - DECIDUOUS	

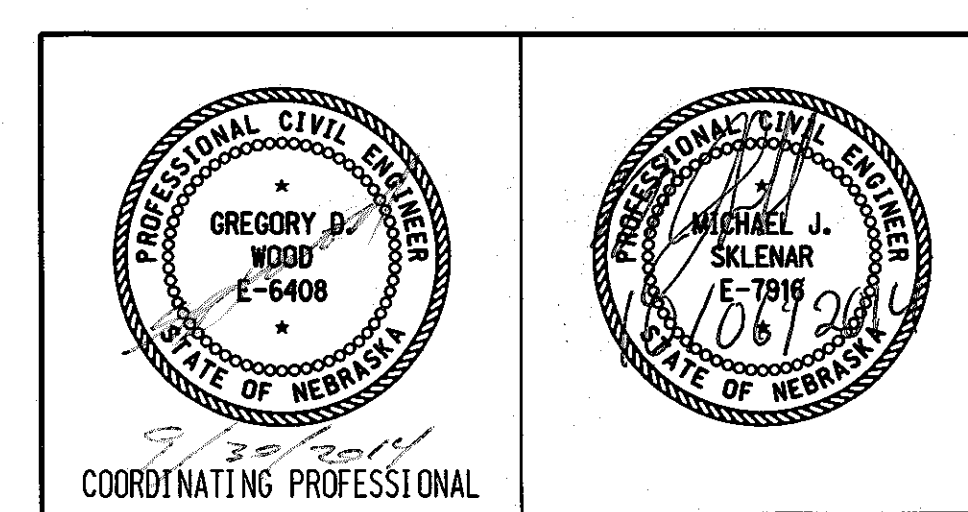
R.O.W. LEGEND

NEW CONTROLLED ACCESS	
PREVIOUS CONTROLLED ACCESS	
LIMITS OF CONSTRUCTION	
PREVIOUS R.O.W.	
NEW R.O.W.	
EXISTING PERMANENT EASEMENT	
TEMPORARY EASEMENT	
EXCESS TAKING	
PERMANENT EASEMENT	
EXISTING RAILROAD EASEMENT	
NEW RAILROAD PERMANENT EASEMENT	
NEW RAILROAD TEMPORARY EASEMENT	

REFERENCE POST NO. 7+70 TO REFERENCE POST NO. 12+79

BRIDGE EXCEPTION: REFERENCE POST NO. 12+47 (312' L)

TOTAL NET LENGTH OF PROJECT: 23,342.40 FEET 4.421 MILES



CONSTRUCTION DIVISION
File: m70470pset1file.dgn
Scale: 1:100

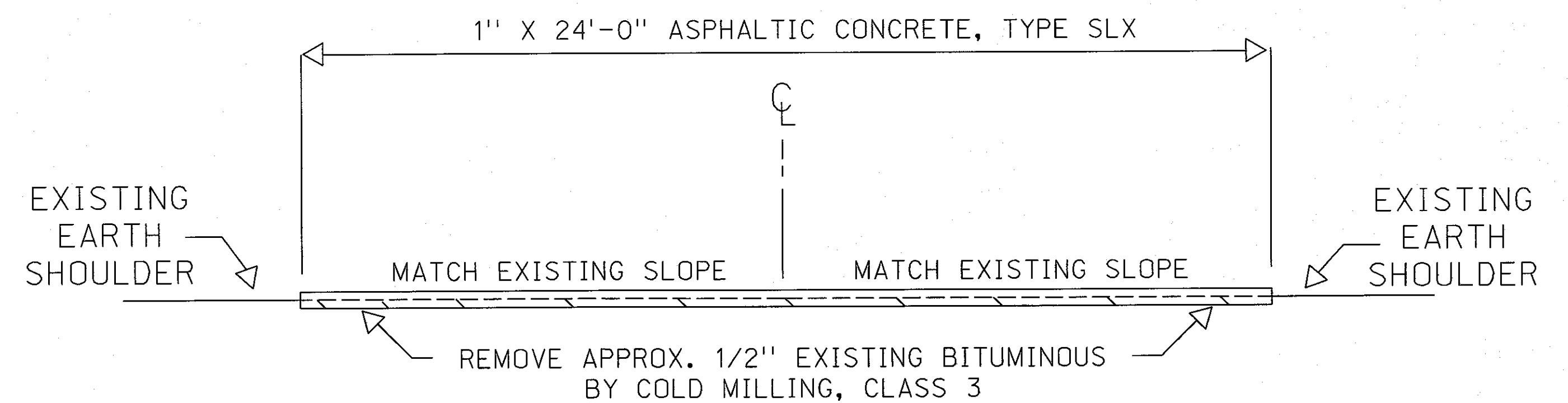
SUMMARY OF QUANTITIES

TYPICAL CROSS SECTION

BITUMINOUS SURFACING ITEMS GROUP 9

ITEM	QUANTITY	UNITS
BARRICADE, TYPE II	1,050.000	BDAY
BARRICADE, TYPE III	52.000	BDAY
TEMPORARY SIGN DAY	140.000	EACH
SIGN DAY	650.000	EACH
OVERLAY BROKEN LINES	466.000	STA
OVERLAY SOLID LINES	932.000	STA
PERMANENT PAVEMENT MARKING, PAINT	70,500.000	LF
FLAGGING	20.000	DAY
FURNISHING AND OPERATING PILOT VEHICLE	8.000	DAY
MOBILIZATION	1.000	LS
HYDRATED LIME/WARM MIX ASPHALT	3,730.000	EACH
ASPHALTIC CONCRETE, TYPE SLX	3,430.000	TON
ASPHALTIC CONCRETE FOR PATCHING, TYPE SLX	300.000	TON
PERFORMANCE GRADED BINDER (64-34)	156.660	TON
TACK COAT	9,460.000	GAL
FOG SEAL	160.000	GAL
RENTAL OF LOADER, FULLY OPERATED	50.000	HOUR
RENTAL OF MOTOR GRADER, FULLY OPERATED	50.000	HOUR
RENTAL OF DUMP TRUCK, FULLY OPERATED	50.000	HOUR
RENTAL OF SKID LOADER, FULLY OPERATED	50.000	HOUR
COLD MILLING, CLASS 3	236.544	STA
RAP INCENTIVE PAYMENT	6,341.000	EACH
ASPHALT PAVEMENT SMOOTHNESS TESTING	1.000	LS

TYPES OF ASPHALTIC OIL TO BE USED
TACK COAT: SS-1, SS-1H, CSS-1, CSS-1H, OFS-1, FS-1
FOG SEAL: SS-1H, CSS-1H
PERFORMANCE GRADED BINDER
AASHTO DESIGNATION M320



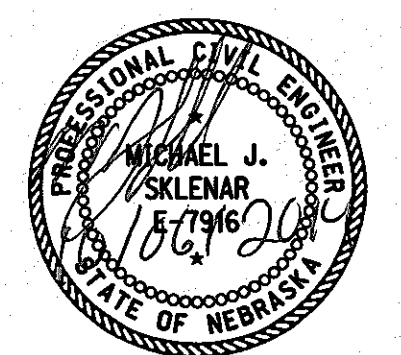
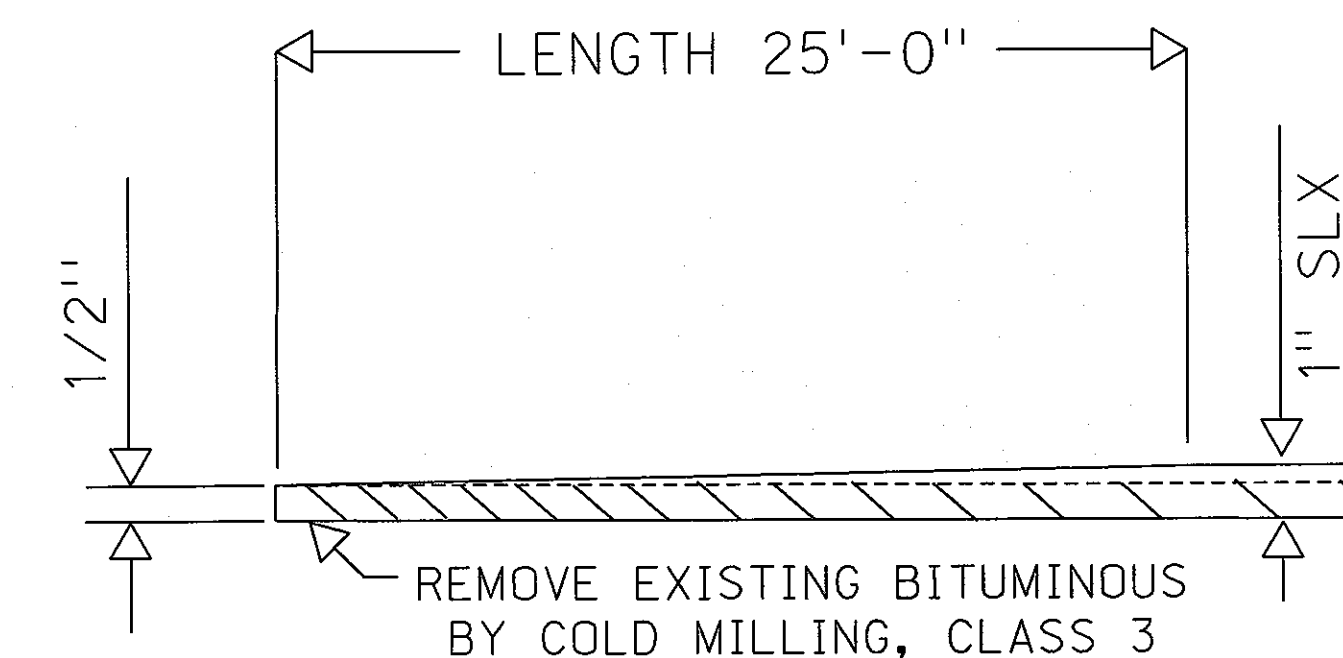
REFERENCE POST TO REFERENCE POST

HWY 47 7+70 12+79

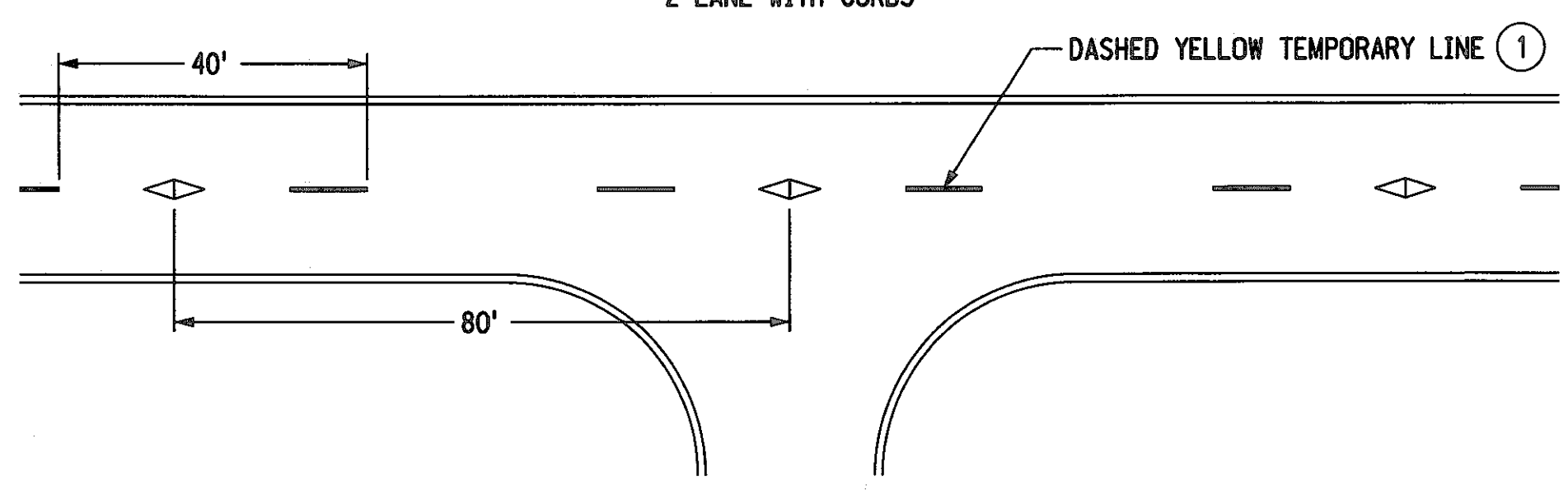
REFERENCE POST EQUATION: 11+39 BK = 12+00 AH

BRIDGE EXCEPTION: REF. POST 12+47 (312' L)

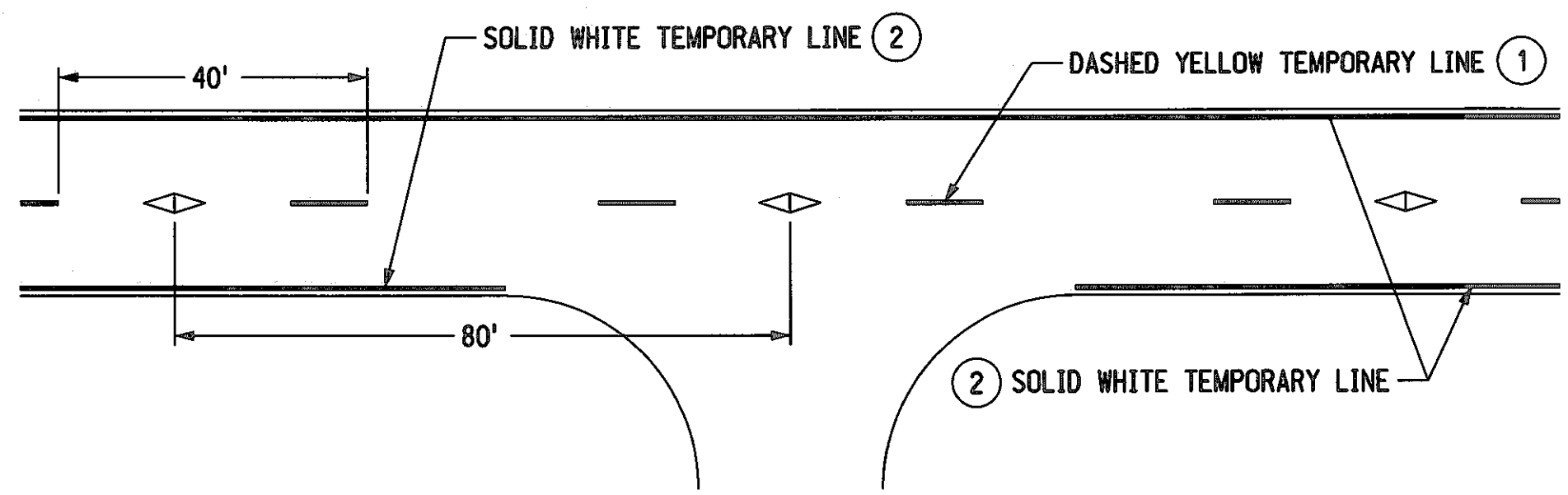
TRANSITION DETAIL FROM EXISTING PAVEMENT TO NEW ASPHALTIC CONCRETE, TYPE SLX



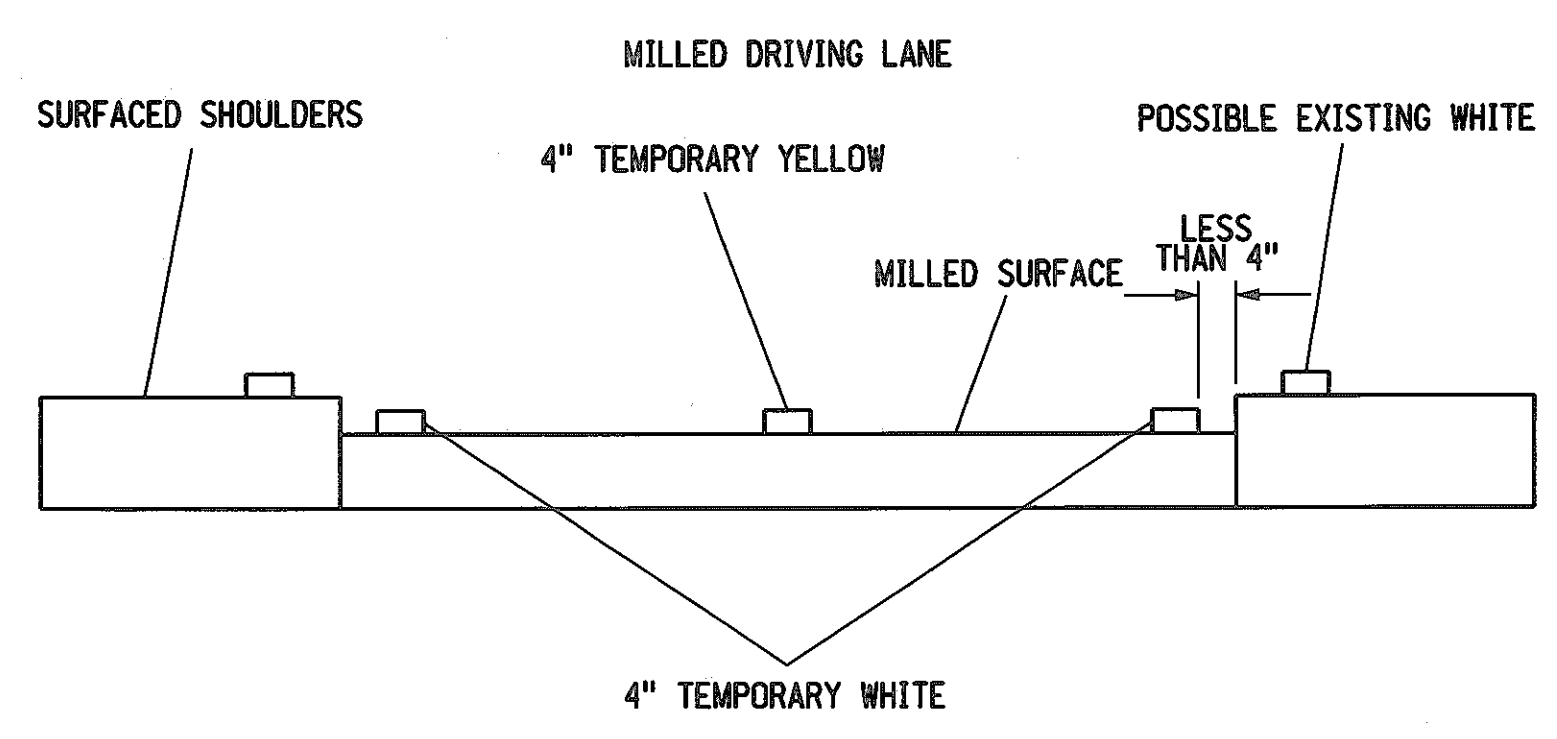
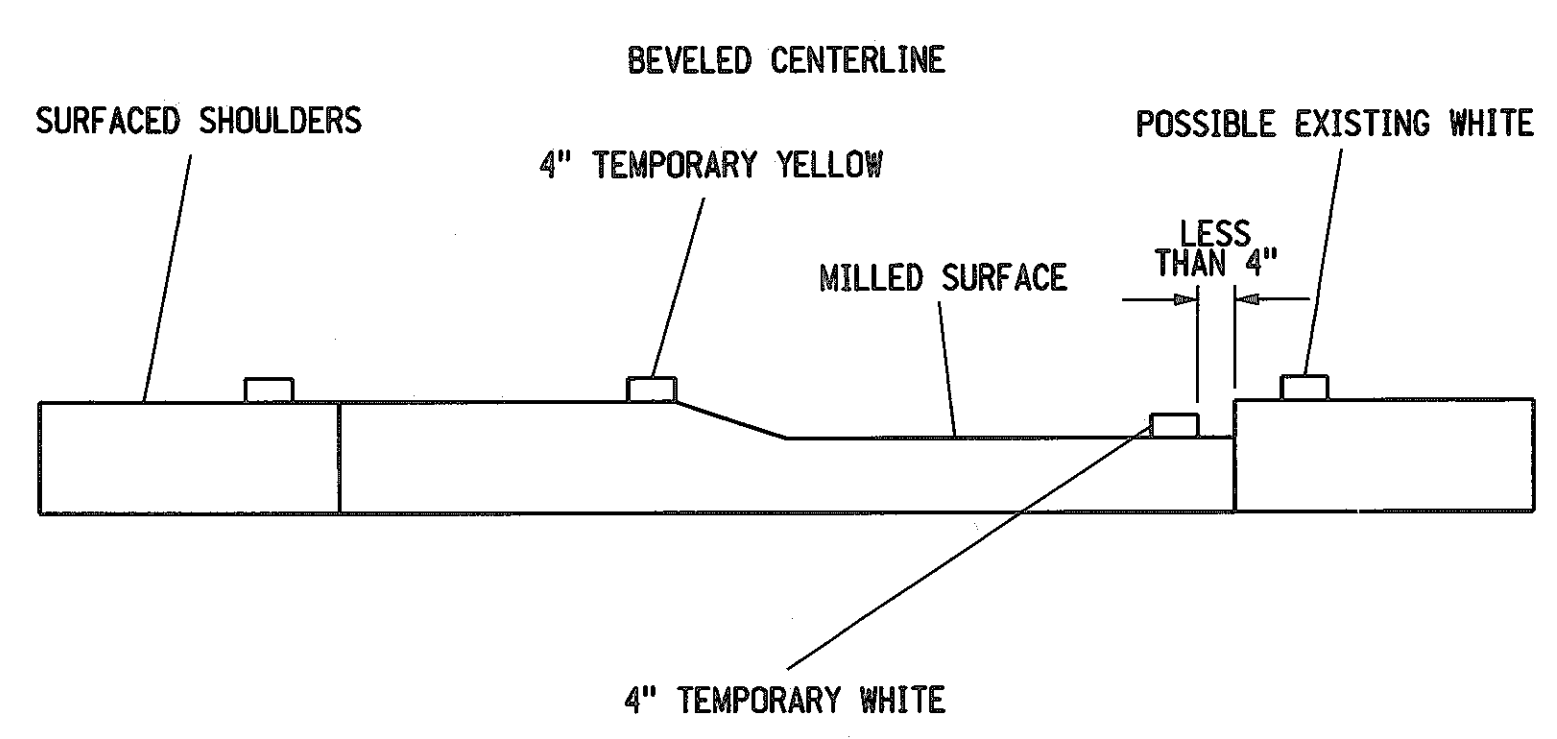
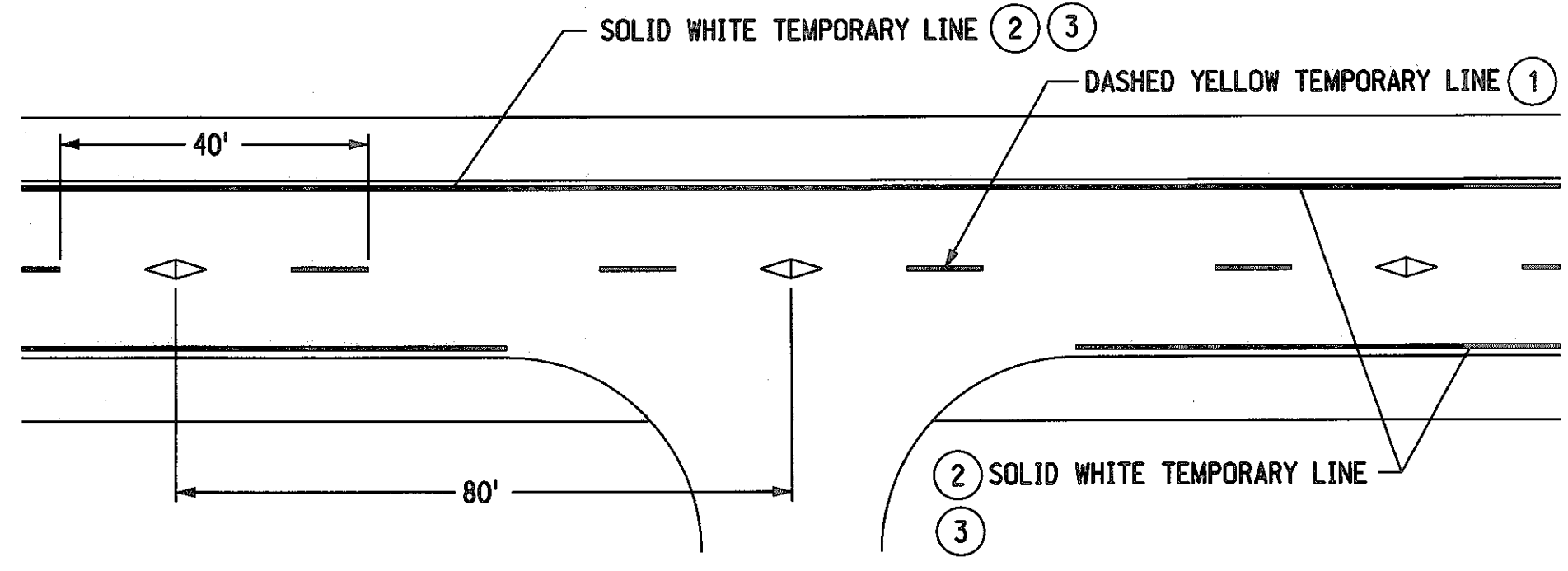
2 LANE ROADWAYS



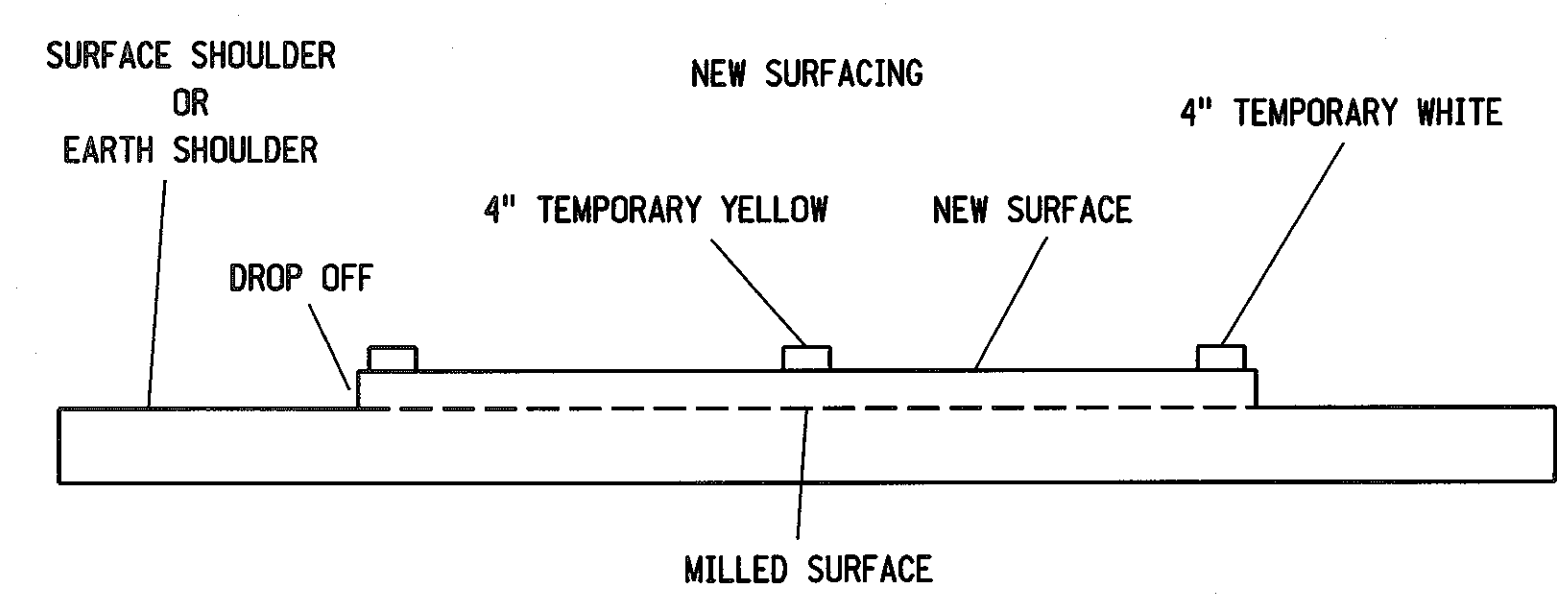
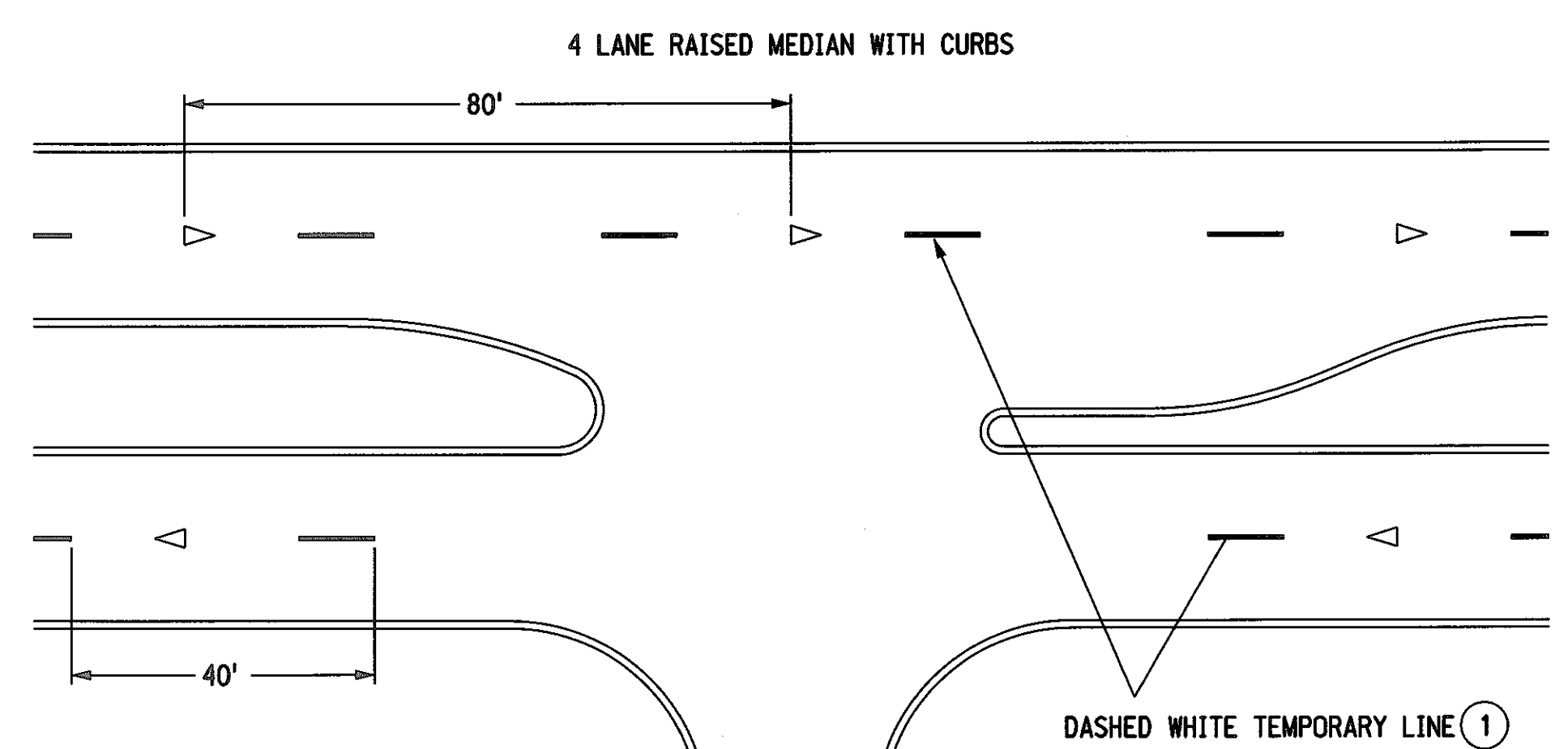
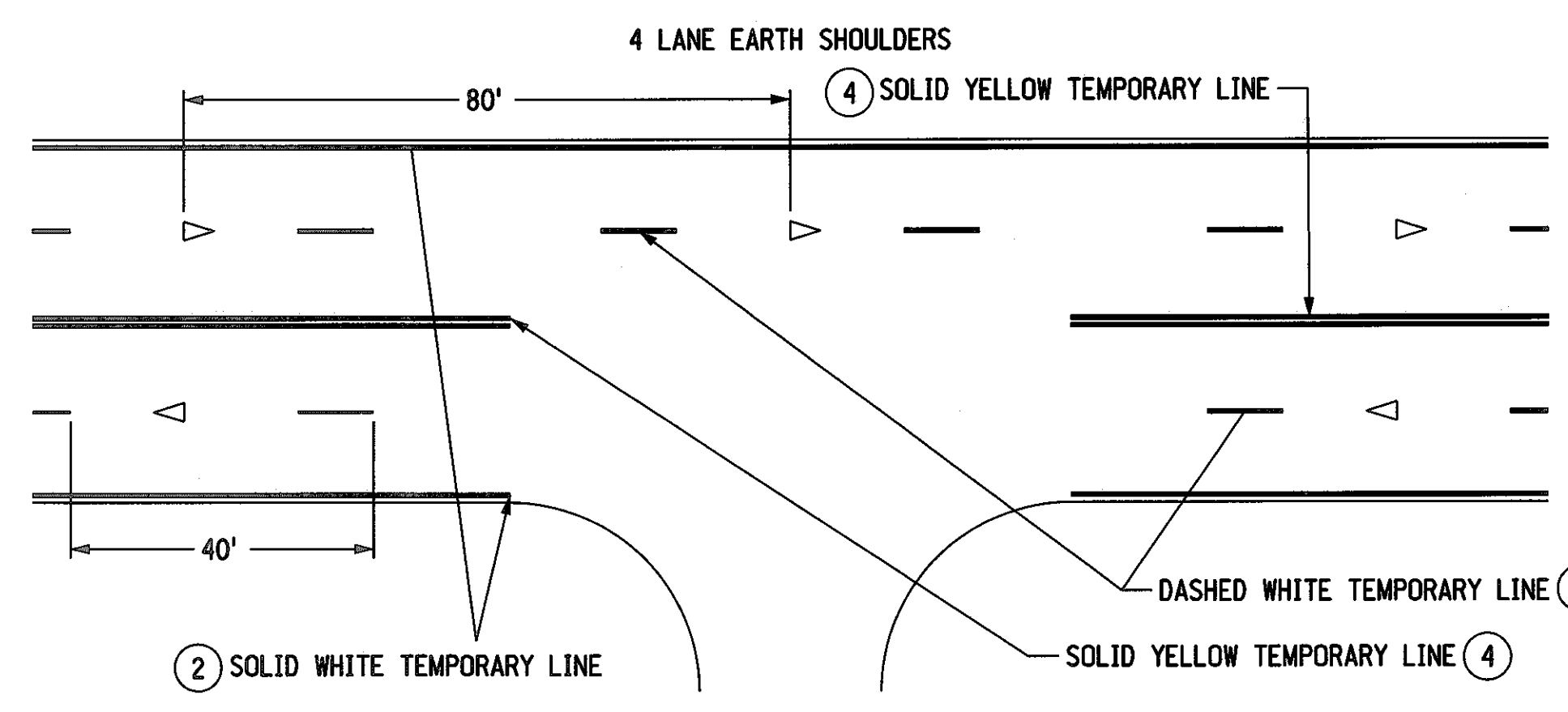
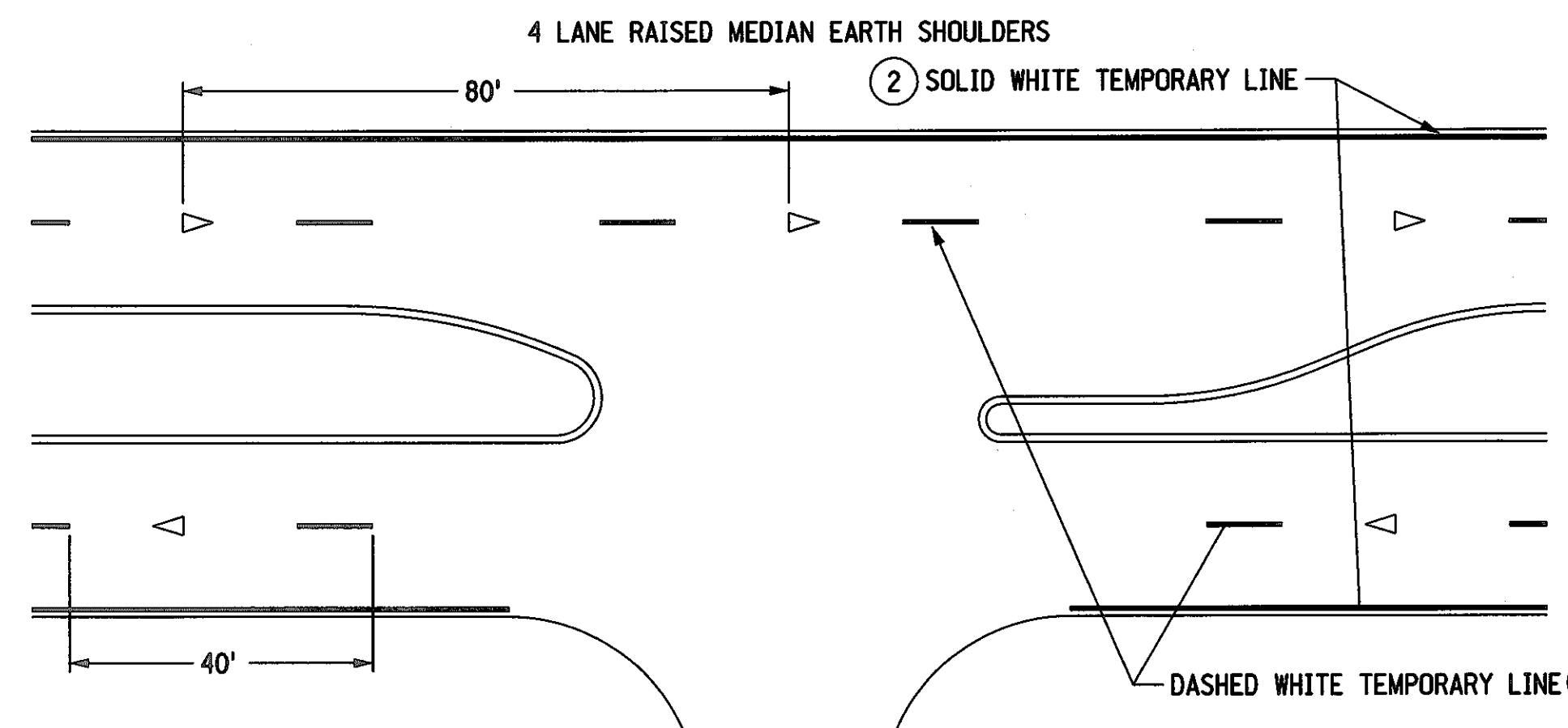
2 LANE EARTH SHOULDERS



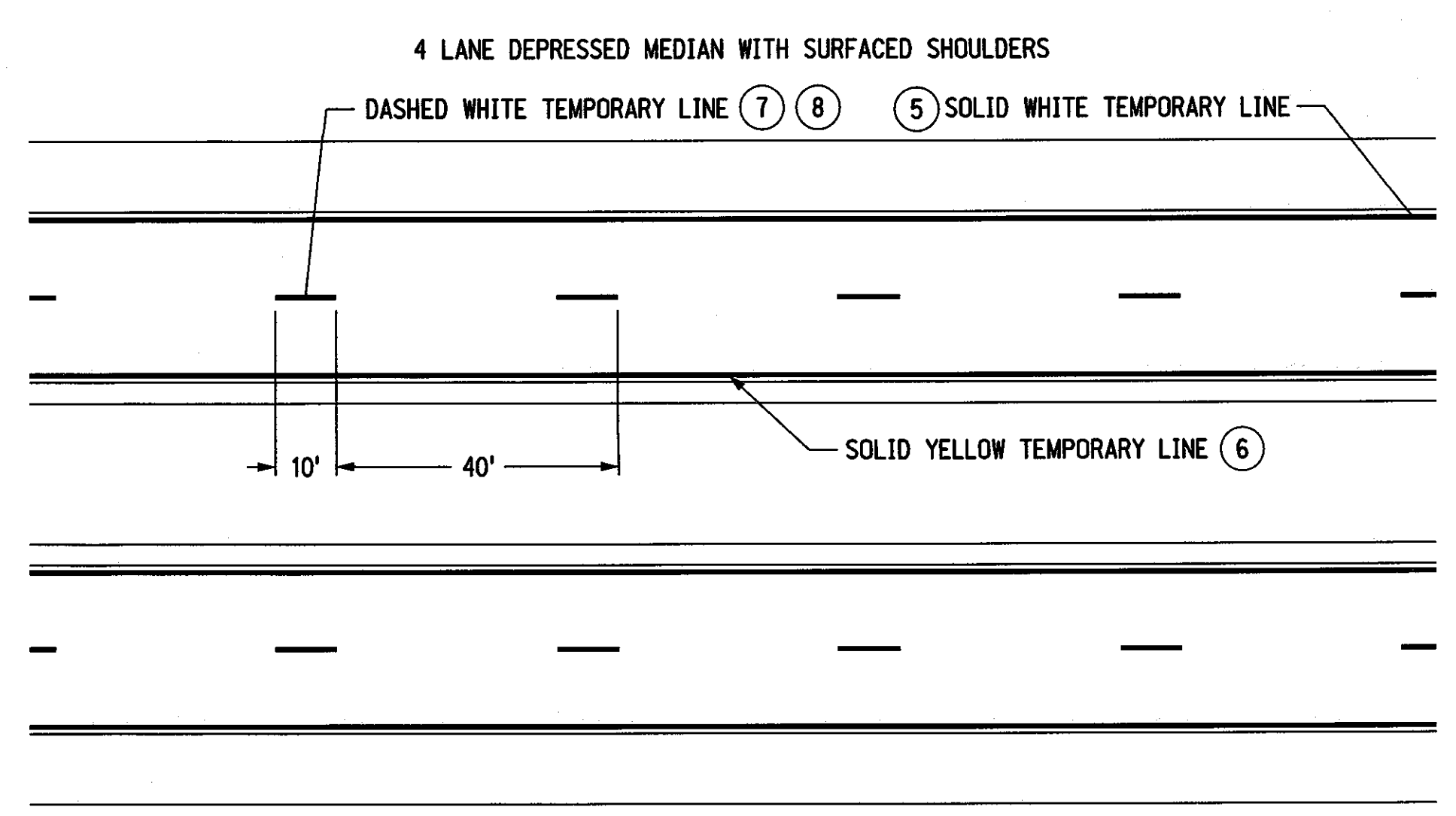
2 LANE SURFACED SHOULDERS



4 LANE ROADWAYS



FREEWAY/RURAL EXPRESSWAY



NOTES

- ① LOWER LAYERS: TEMPORARY DASHED LINE SHALL BE 4" X 10' PAINTED LINE AT 40' INTERVALS OR 4" X 4' TYPE I TAPE LINE AT 40' INTERVALS. TAPE OR PAINT WILL BE SUPPLEMENTED WITH AN OVERLAY MARKER EVERY 80 FEET.
 - OVERLAY MARKERS ARE NOT REQUIRED ON MILLED SURFACES, HYDRATED LIME SURFACES AND STABILIZED SURFACES.
- TOP LAYER:
 - BROKEN LINE MARKINGS
 - INSTALL 4" X 4' TAPE AT 40' INTERVALS SUPPLEMENTED WITH AN OVERLAY MARKER EVERY 80 FEET.
 - OR USE NO TAPE, BUT INSTALL 2 RAISED PAVEMENT MARKERS SPACED 5' APART AT 40' INTERVALS.
 - SOLID LINE MARKINGS
 - 4" WIDE PAINTED LINE OR PAVEMENT MARKING TAPE. RAISED PAVEMENT MARKERS MAY BE USED IN LIEU OF PAINT OR TAPE, INSTALLED AT 10' INTERVALS.
- ARMOR COATS FOG SEALS: 2 OVERLAY MARKERS 5' APART, PER 40 FOOT CYCLE (NO PAINT OR TAPE).
- ② TEMPORARY SOLID LINE SHALL BE 4" WIDE PAINTED LINE.
- ③ EDGE LINE SHALL BE PLACED SO THAT THE OUTSIDE EDGE OF PAINT IS THE REQUIRED DISTANCE FROM CENTERLINE ON THE TOP LIFT
- ④ TEMPORARY CENTERLINE SHALL BE TWO 4" PAINTED LINES SPACED 4" APART, CENTERED ABOUT THE JOINT LINE.
- ⑤ EDGELINE SHALL BE 4" PAINTED LINE. PLACED TO THE LEFT OF JOINT LINE.
- ⑥ ALL LAYERS: EDGELINE SHALL BE PLACED 12'-0" FROM THE CENTER JOINT LINE. (RIGHT OF SHOULDER JOINT LINE WHEN APPLICABLE)
- ⑦ MILLED SURFACE OR LOWER LIFTS: THE TEMPORARY WHITE DASH LINE SHALL BE 4" X 10' MINIMUM PAINTED LINE AT 40' INTERVALS, PLACED TO THE LEFT OF THE JOINT LINE.
- ⑧ TOP LIFT: THE TEMPORARY WHITE DASH LINE SHALL BE 4" IN WIDTH X MINIMUM 8' TO MAXIMUM 10' LENGTH, PLACED 2" TO THE LEFT OF THE JOINT LINE. THE INTERVAL (CYCLE) SHALL BE 40' ± 2" TO ALLOW FOR THE PERMANENT PAVEMENT MARKING.
- ⑨ ALL TEMPORARY PAVEMENT MARKING THAT WILL BE COVERED BY PERMANENT PAVEMENT MARKING SHALL COMPLY WITH THE ALIGNMENT AND LOCATION REQUIREMENTS OF THE FINAL PAVEMENT MARKING MATERIAL. TEMPORARY PAVEMENT MARKINGS THAT ARE NOT COVERED BY THE PERMANENT MARKINGS SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE.

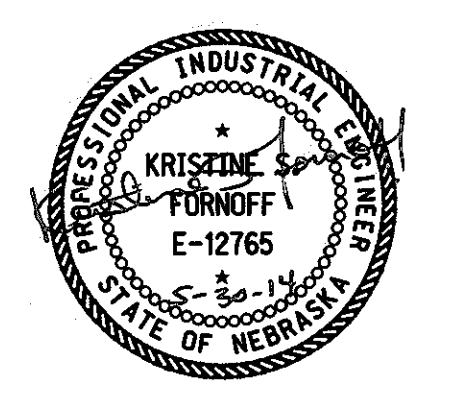
2 LANE ROADWAY REQUIRED LOCATION FOR PAINTED LINES, IF USED ON THE TOP LAYER

ROADWAY WIDTH	SHOULDER TYPE	DISTANCE FROM C OF ROADWAY TO OUTSIDE EDGE OF PAVEMENT
LESS THAN 24'	SURFACED	EDGE OF LANE
LESS THAN 24'	EARTH	PAVEMENT EDGE
24'	EARTH	PAVEMENT EDGE
24'	SURFACED	12'-0" *
24' TO 28'	EARTH	12'-0" *

*SEE NOTE 3

CENTERLINE MARKING SHALL BE PLACED ON THE "SOUTH" SIDE OF THE CENTER JOINT ON EAST-WEST ROADS AND ON THE "EAST" SIDE OF THE CENTER JOINT ON NORTH-SOUTH ROADS

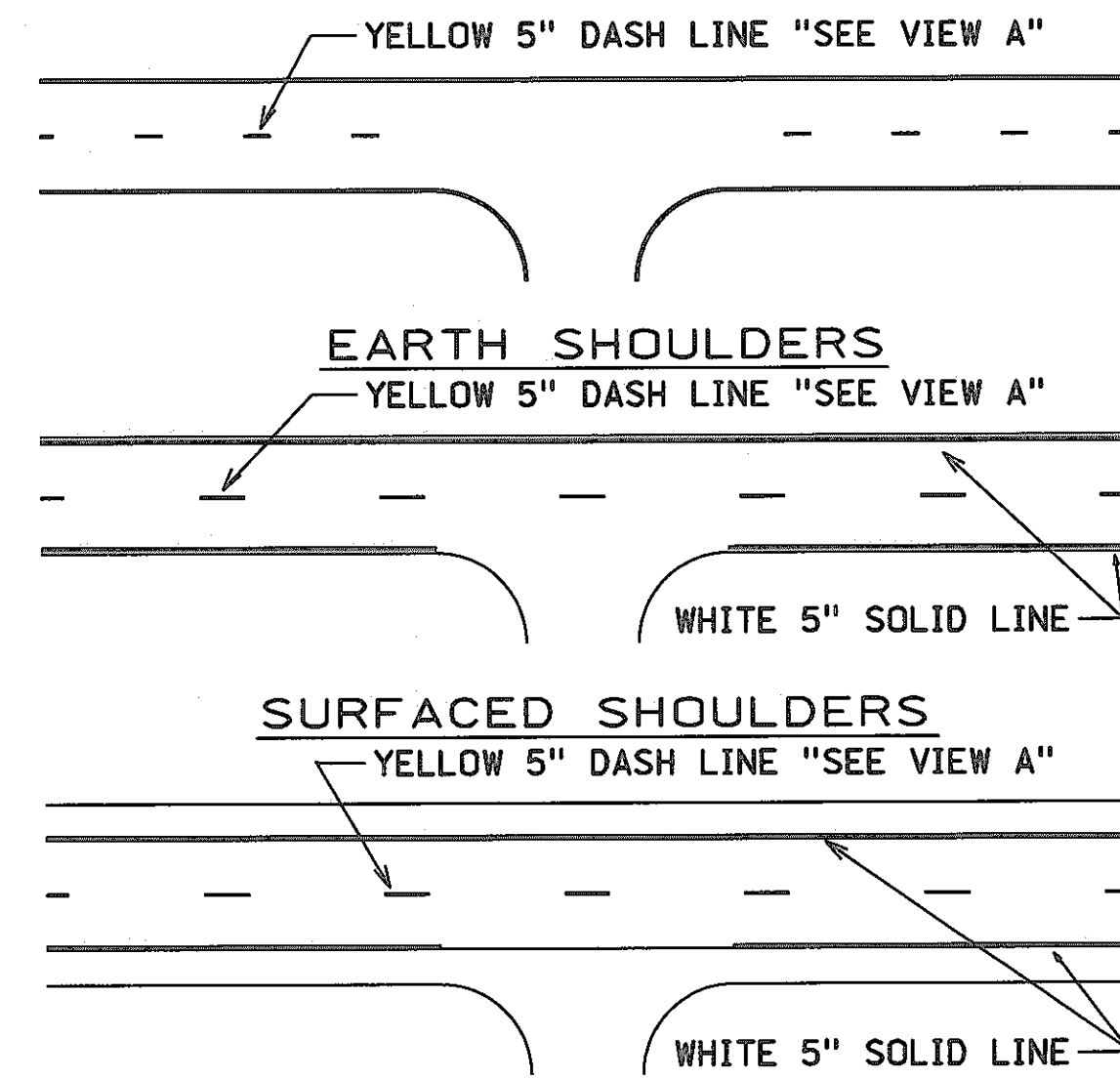
- LEGEND
- ◁ OVERLAY MARKER
 - ◄ BIDIRECTIONAL OVERLAY MARKER



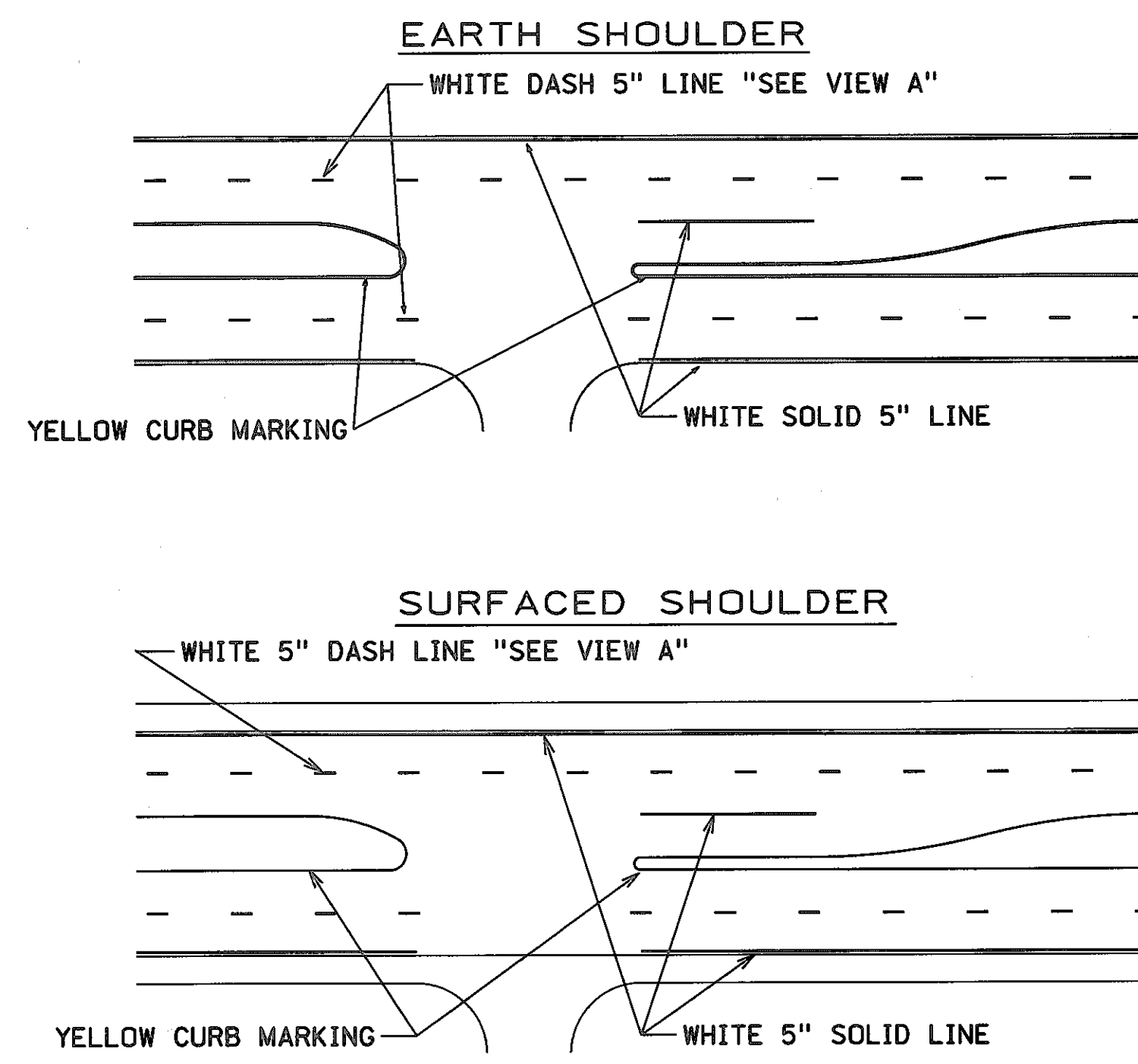
NEBRASKA DEPARTMENT OF ROADS TRAFFIC ENGINEERING DIVISION

TYPICAL PAVEMENT MARKING	
DESIGNED DV	TEMPORARY PAVEMENT MARKING PLAN
REVIEWED MAN	
DATE DRAWN 8/06	TRAFFIC ENGINEER DATE

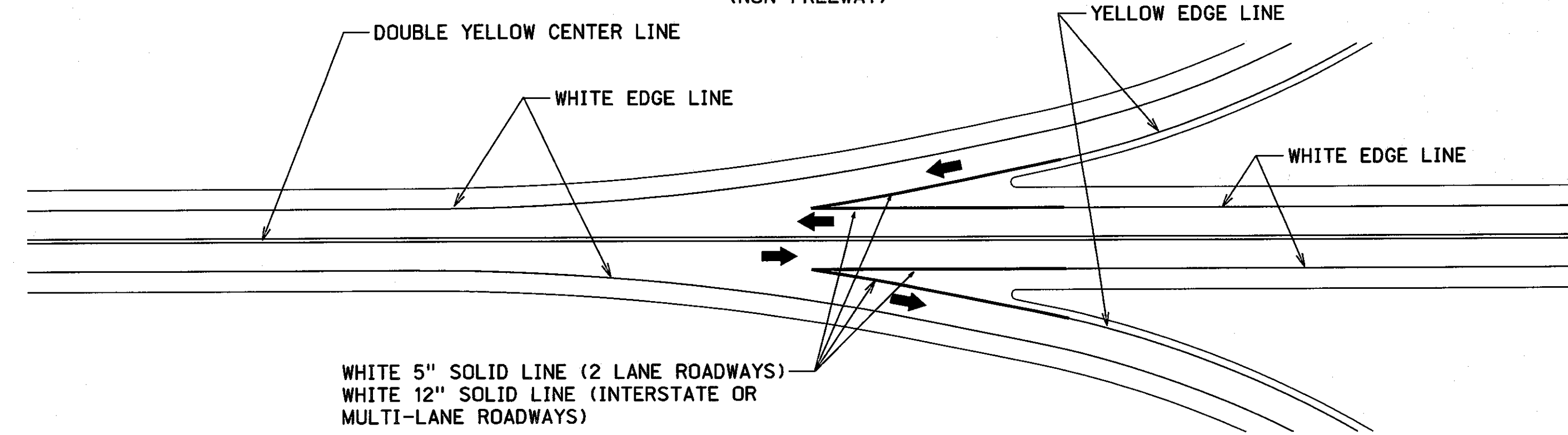
2 LANE ROADWAYS WITH CURBS



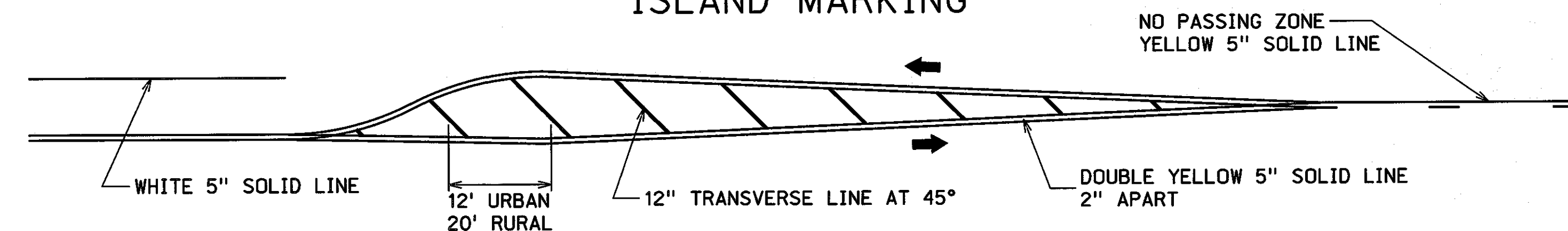
4 LANE DIVIDED ROADWAY



GORE MARKINGS (NON-FREEWAY)



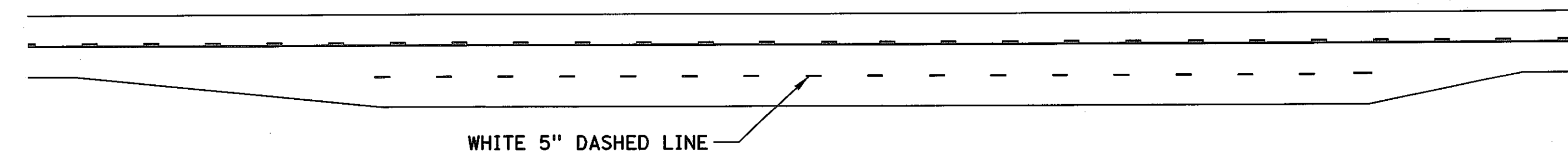
ISLAND MARKING



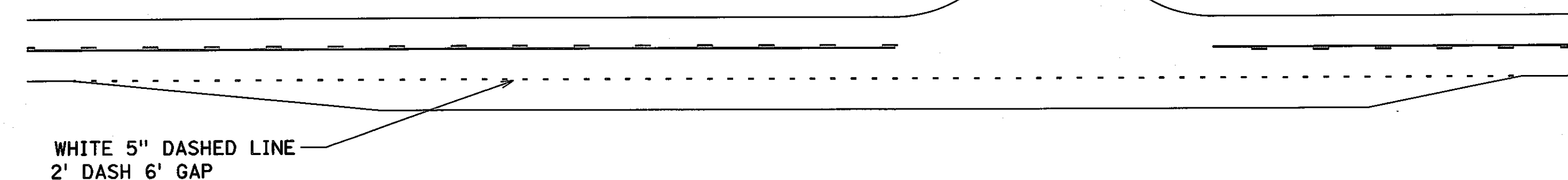
2-LANE ROADWAY REQUIRED LOCATION FOR EDGE LINES		
ROADWAY WIDTH	SHOULDER TYPE	DISTANCE FROM CENTERLINE OF ROADWAY TO OUTSIDE EDGE OF PAVEMENT EDGELINE
LESS THAN 24 FT	SURFACED	12 FT 0 IN
LESS THAN 24 FT	EARTH	PAVEMENT EDGE
24 FT	EARTH	PAVEMENT EDGE
24 FT	SURFACED	12 FT 0 IN
GREATER THAN 24 FT	EARTH	12 FT 0 IN

CENTERLINE MARKING SHALL BE PLACED ON THE "SOUTH" SIDE OF THE CENTER JOINT ON EAST-WEST ROADS AND ON THE "EAST" SIDE OF THE CENTER JOINT ON NORTH-SOUTH ROADS

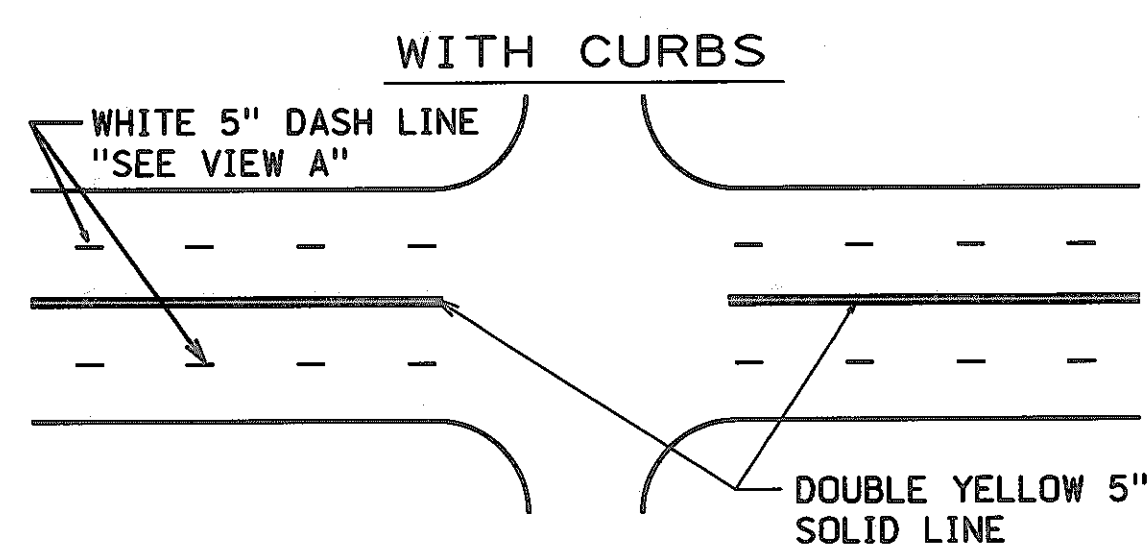
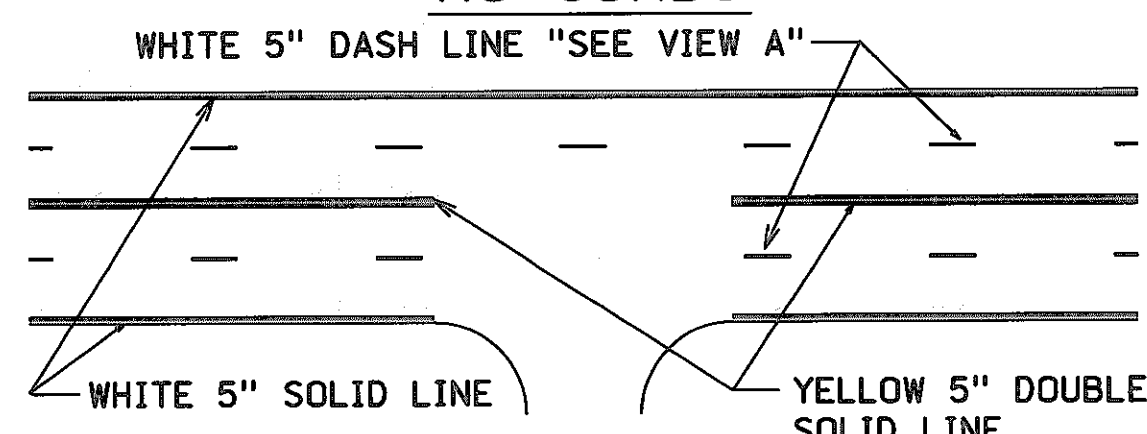
PASSING LANE MARKING



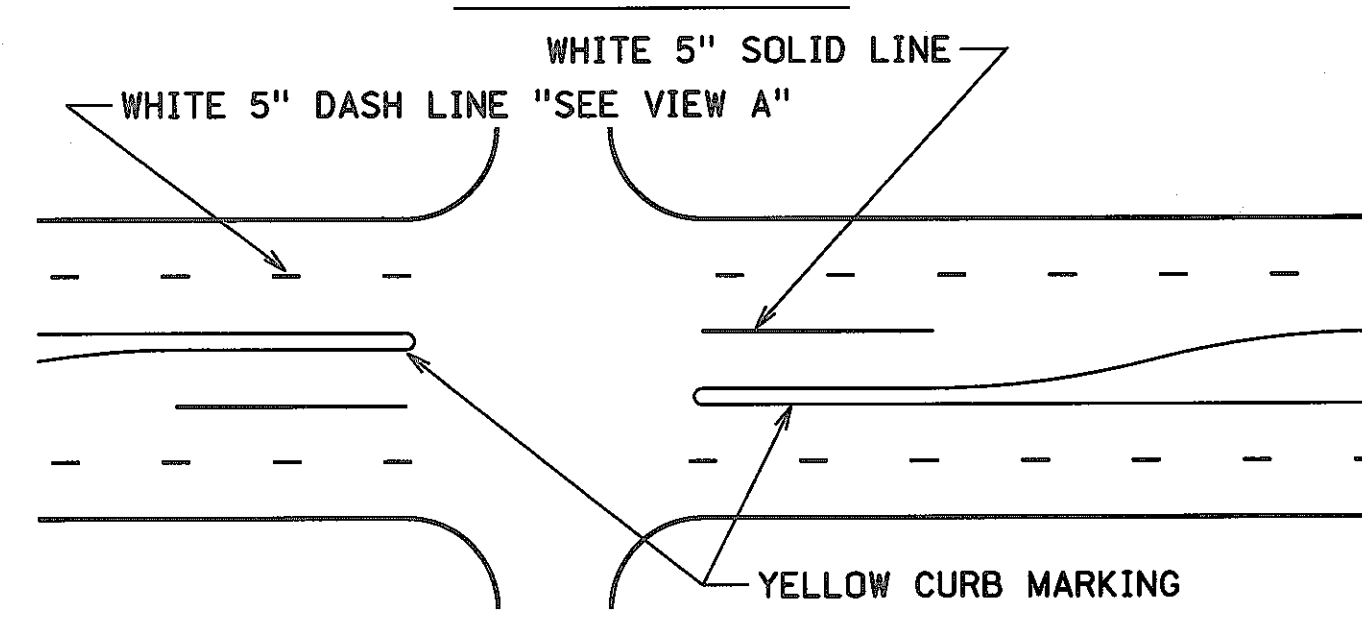
FLY-BY LANE MARKING



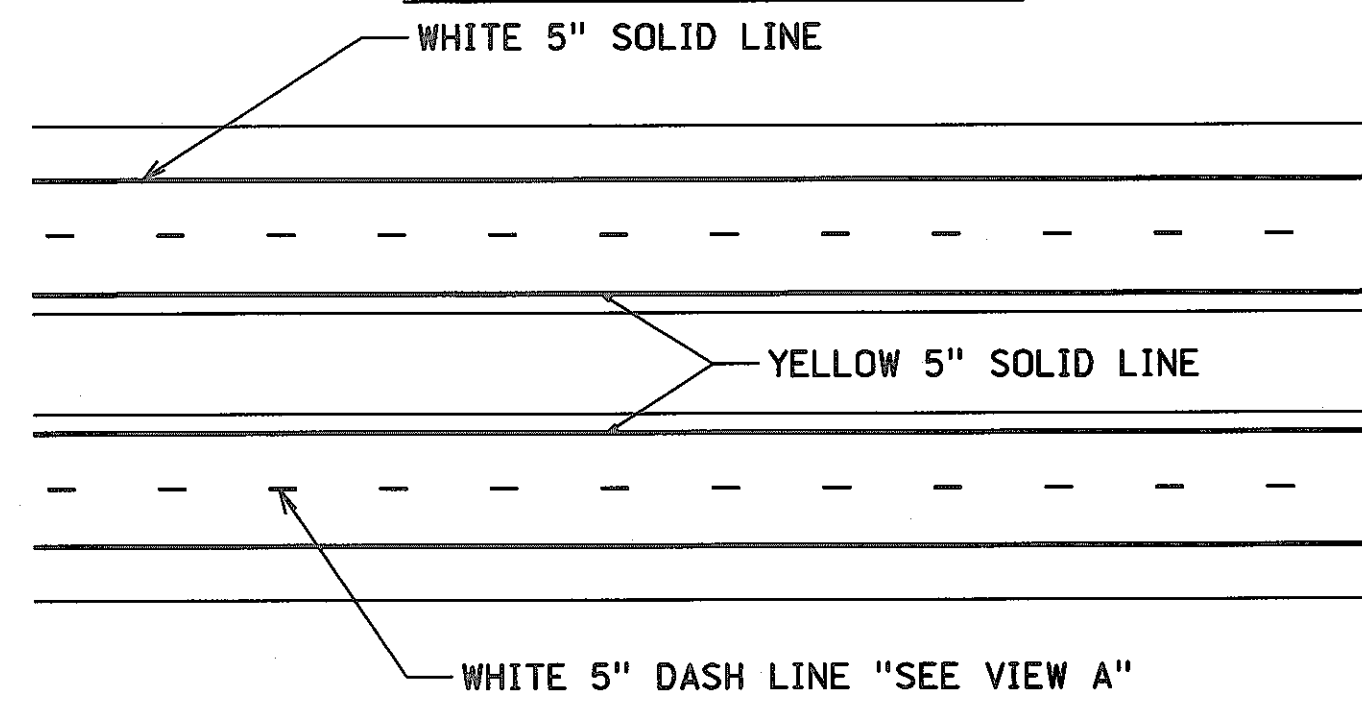
4 LANE ROADWAYS NO CURBS



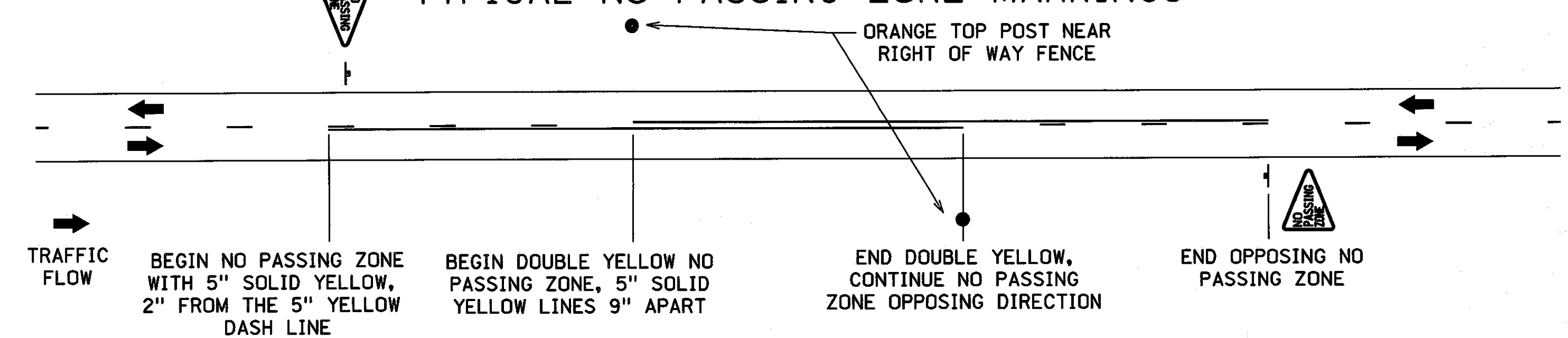
WITH CURBS



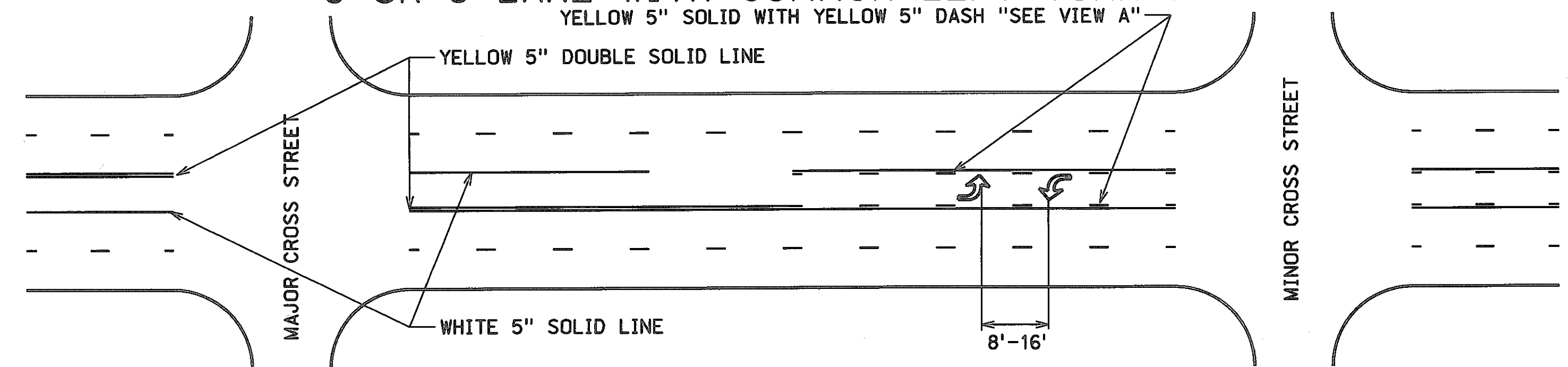
DEPRESSED MEDIAN



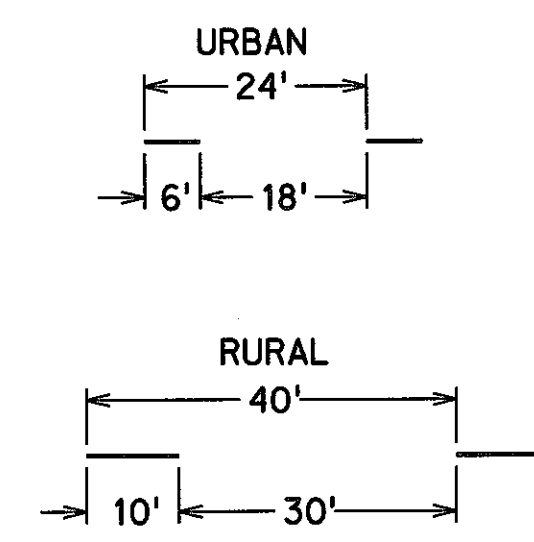
TYPICAL NO PASSING ZONE MARKINGS



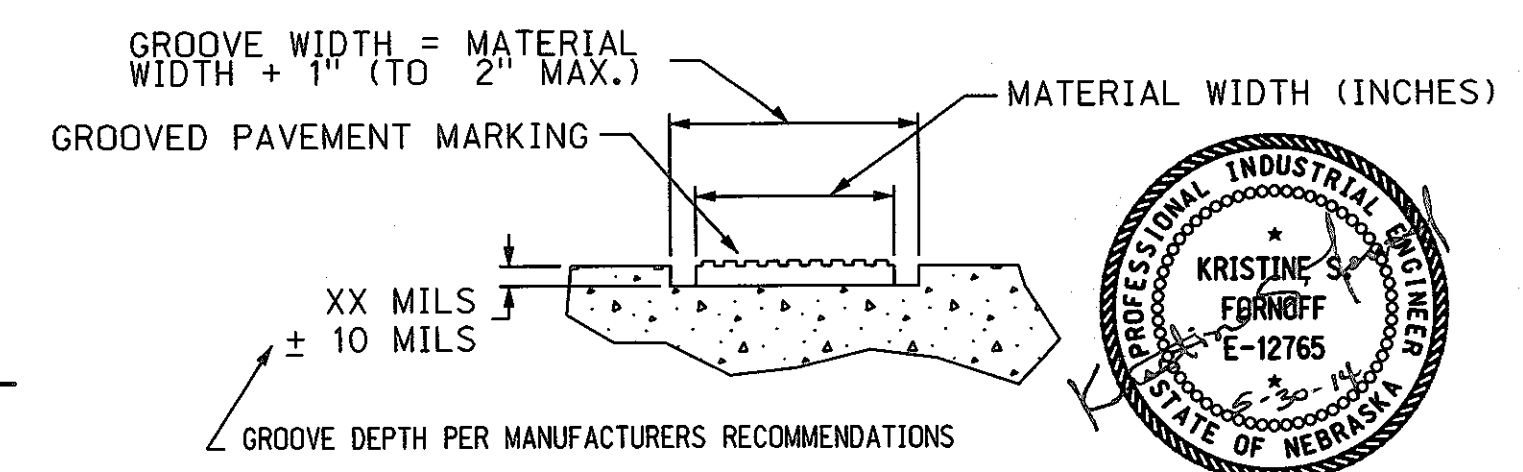
3 OR 5 LANE WITH COMMON LEFT TURN LANE



VIEW A



PERMANENT PAVEMENT MARKINGS INSTALLED IN GROOVES



NEBRASKA DEPARTMENT OF ROADS TRAFFIC ENGINEERING DIVISION

TYPICAL PAVEMENT MARKING PLAN			
DESIGNED	TJF	5" PAVEMENT MARKING	
REVIEWED			
APPROVED	DATE DRAWN	TRAFFIC ENGINEER	DATE
	12/12		

