

**INDEX OF SHEETS**

SHEET NO.	
1	TITLE PAGE
2-S	SUMMARY OF QUANTITIES AND TYPICAL CROSS SECTION
3	TRAFFIC CONTROL PLAN--VEHICLE SIGNING FOR PAINT STRIPING
4	TYPICAL PAVEMENT MARKING--TEMPORARY PAVEMENT MARKING PLAN
5	TYPICAL PAVEMENT MARKING PLAN--5" PAVEMENT MARKING

**STANDARD PLANS**

920-R6	(3 SHEETS) TRAFFIC CONTROL, CONSTRUCTION AND MAINTENANCE
921-R6	(2 SHEETS) TRAFFIC CONTROL, CONSTRUCTION AND MAINTENANCE
922-R9	(2 SHEETS) TRAFFIC CONTROL FOR ASPHALT SURFACING

**STATE OF NEBRASKA  
DEPARTMENT OF ROADS**

**PLANS FOR CONSTRUCTION**

**THEDFORD NORTH &  
VALENTINE SOUTH**

**CHERRY COUNTY**

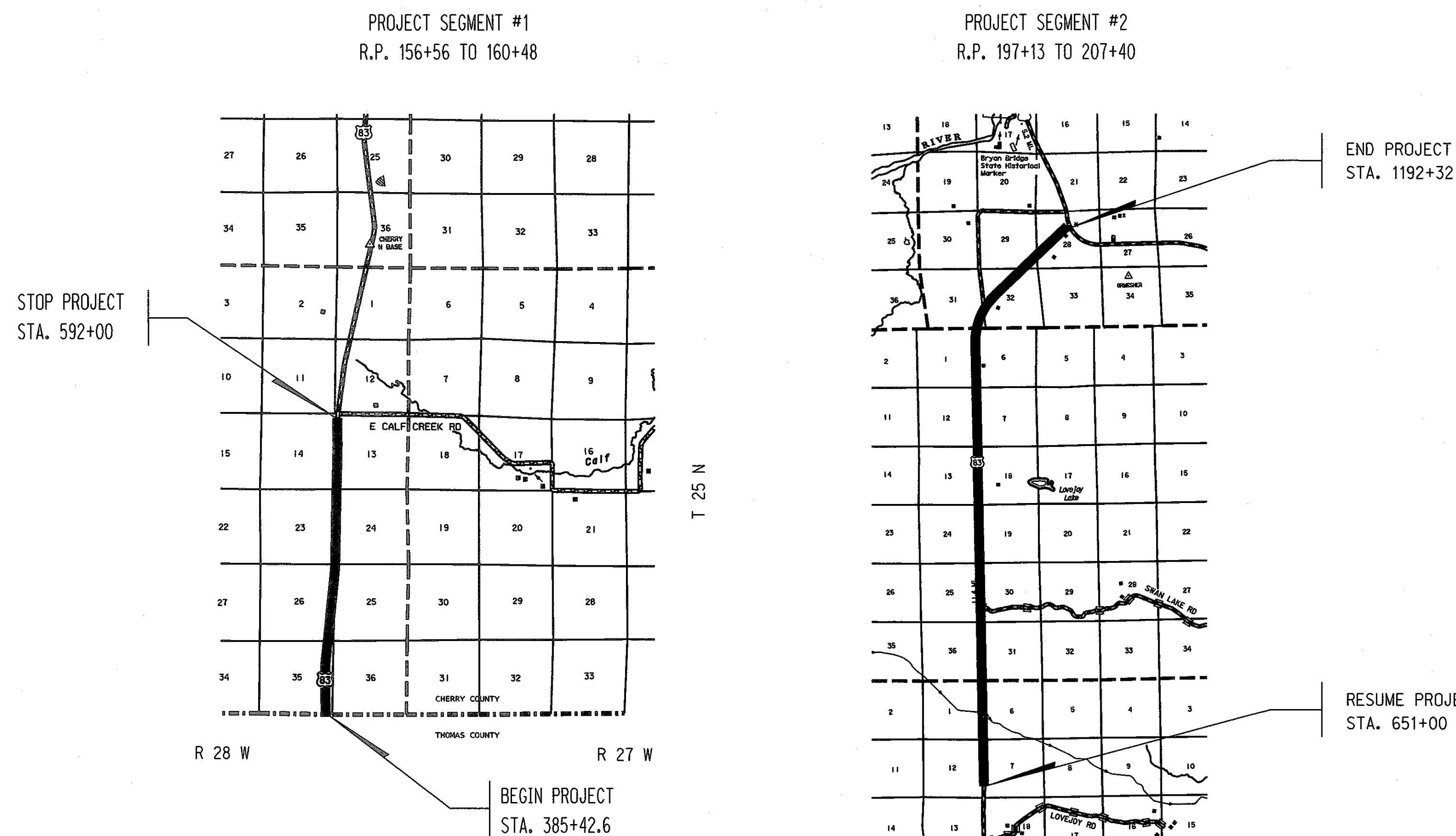


PROJECT NO.	SHEET NO.
RD-83-4(1022)	1
▲ CONTROL NO. 80973	
▲ CONTROL NO.	
■ CONTROL NO.	

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

THE WORK ON THIS PROJECT CONSISTS OF GROUPS	
8-SPECIALTY	
▲ GROUPS 8 ARE INCLUDED	IN THE LETTING OF MARCH 12, 2015
▲ GROUPS ARE INCLUDED	IN THE LETTING OF
■ GROUPS ARE INCLUDED	IN THE LETTING OF

DESIGN DESIGNATION
MAINTENANCE
TRAFFIC
YEAR: 2014
ADT: 1690



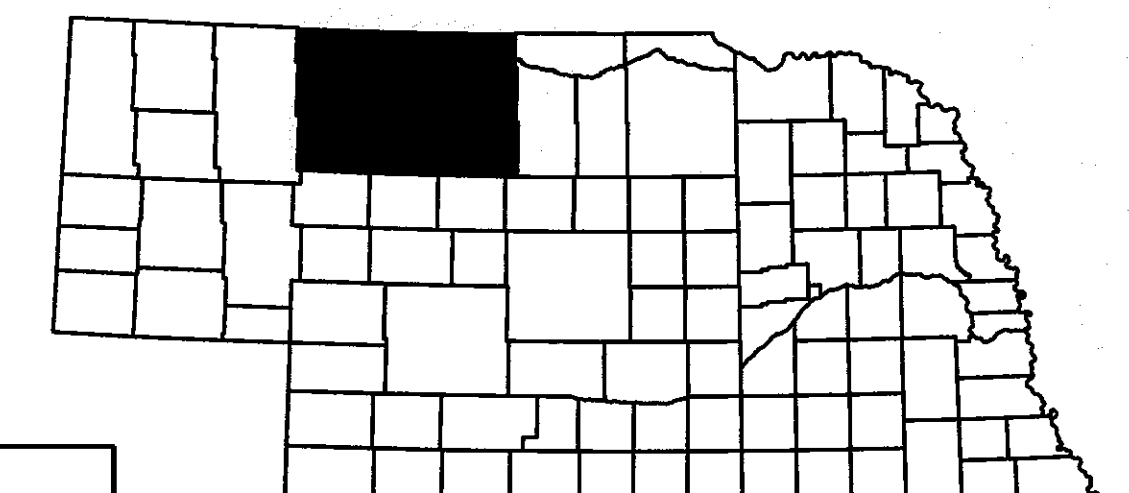
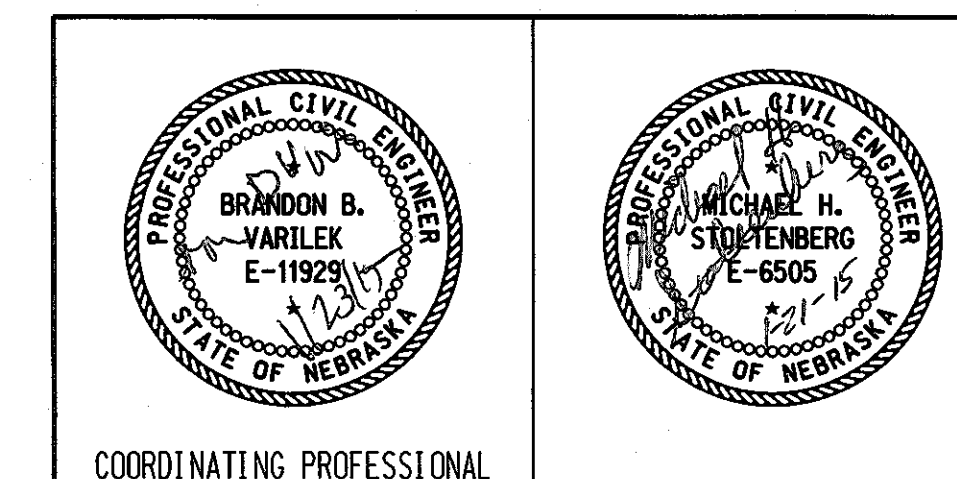
**CONVENTIONAL SIGNS**

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. 156+56 TO REFERENCE POST NO. 160+48  
 REFERENCE POST NO. 197+13 TO REFERENCE POST NO. 207+40  
 BRIDGE EXCEPTION: FROM STA. 721+09.53 TO STA. 721+48.87  
 TOTAL NET LENGTH OF PROJECT: 74,750.06 FEET 14.16 MILES



CONSTRUCTION DIVISION

File: 809730pset1title.dgn  
Scale: 1:100

PROJECT NO.	SHEET NO.
83-4(1022)	2-S

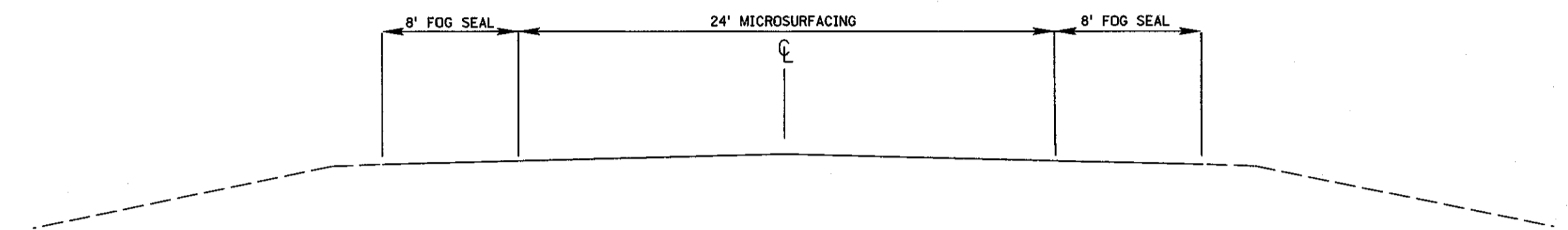
C.N. 80973

# SUMMARY OF QUANTITIES

# TYPICAL CROSS SECTIONS

## SPECIALTY ITEMS GROUP 8

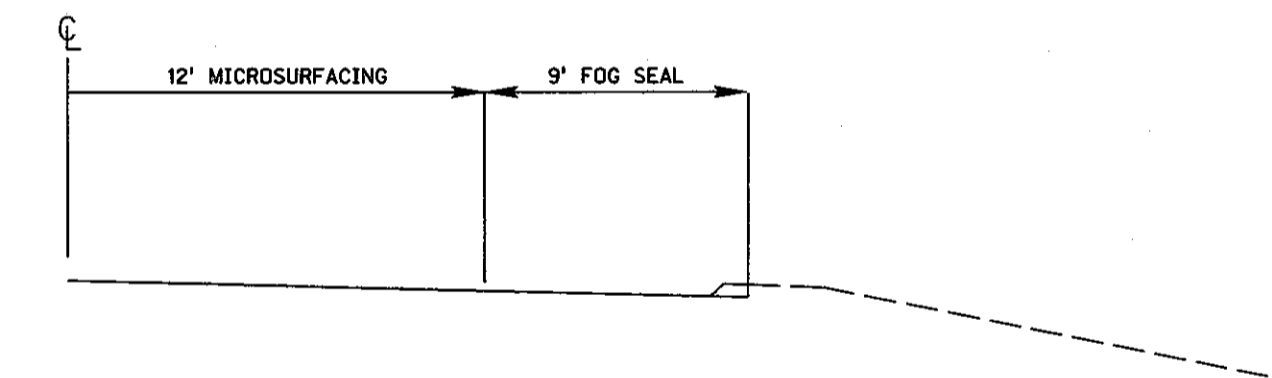
ITEM	QUANTITY	UNITS
BARRICADE, TYPE II	2,795.000	BDAY
BARRICADE, TYPE III	243.000	BDAY
SIGN DAY	2,565.000	EACH
TEMPORARY BROKEN LINES	748.000	STA
OVERLAY SOLID LINES	1,496.000	STA
PERMANENT PAVEMENT MARKING, PAINT	196,000.000	LF
FLAGGING	26.000	DAY
FURNISHING AND OPERATING PILOT VEHICLE	13.000	DAY
MOBILIZATION	1.000	LS
AGGREGATE FOR MICROSURFACING	3,609.000	TON
MINERAL FILLER FOR MICROSURFACING	74.000	TON
MICROSURFACING PLACEMENT	747.294	STA
EMULSIFIED ASPHALT FOR MICROSURFACING	124,010.000	GAL
FOG SEAL	16,141.311	GAL
CRACK SEALING BITUMINOUS SURFACING	15,570.000	LF
ENVIRONMENTAL COMMITMENTS - CONTRACTOR COMPLIANCE	1.000	LS



STATION	TO	STATION
385+42.6		592+00
651+00		1192+32

EXCEPT AS SHOWN ELSEWHERE

BRIDGE EXCEPTION  
STA. 721+09.53 - 721+48.87



STATION	TO	STATION	SIDE
400+62		406+86	LT & RT
407+26		412+15	LT & RT
450+00		451+70	LT
451+70		455+20	LT & RT
455+49		455+60	RT
455+60		462+86	LT & RT
463+26		467+86	LT & RT
468+26		474+00	LT & RT
508+00		512+74	LT & RT
513+74		517+74	LT & RT
518+14		522+74	LT & RT
524+30		528+73	LT & RT
545+26		551+86	LT & RT
552+15		552+26	LT
552+26		564+74	LT & RT
565+14		569+73	LT & RT

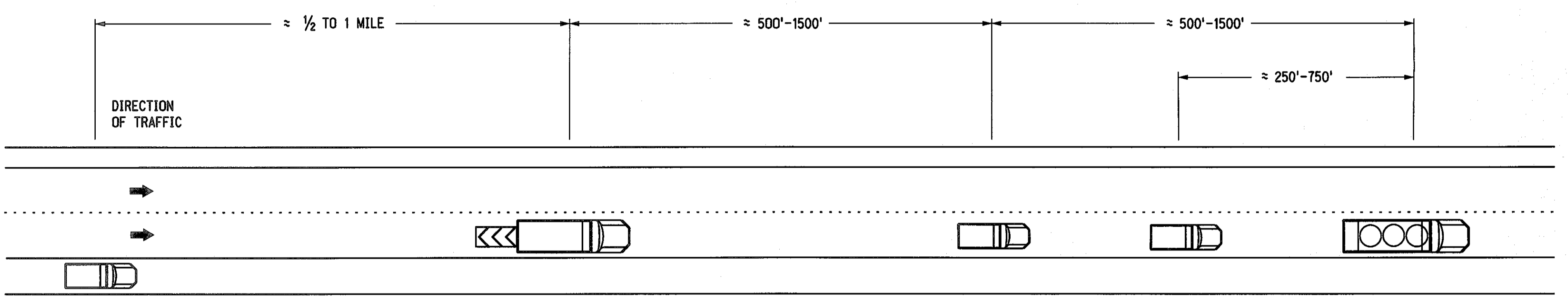
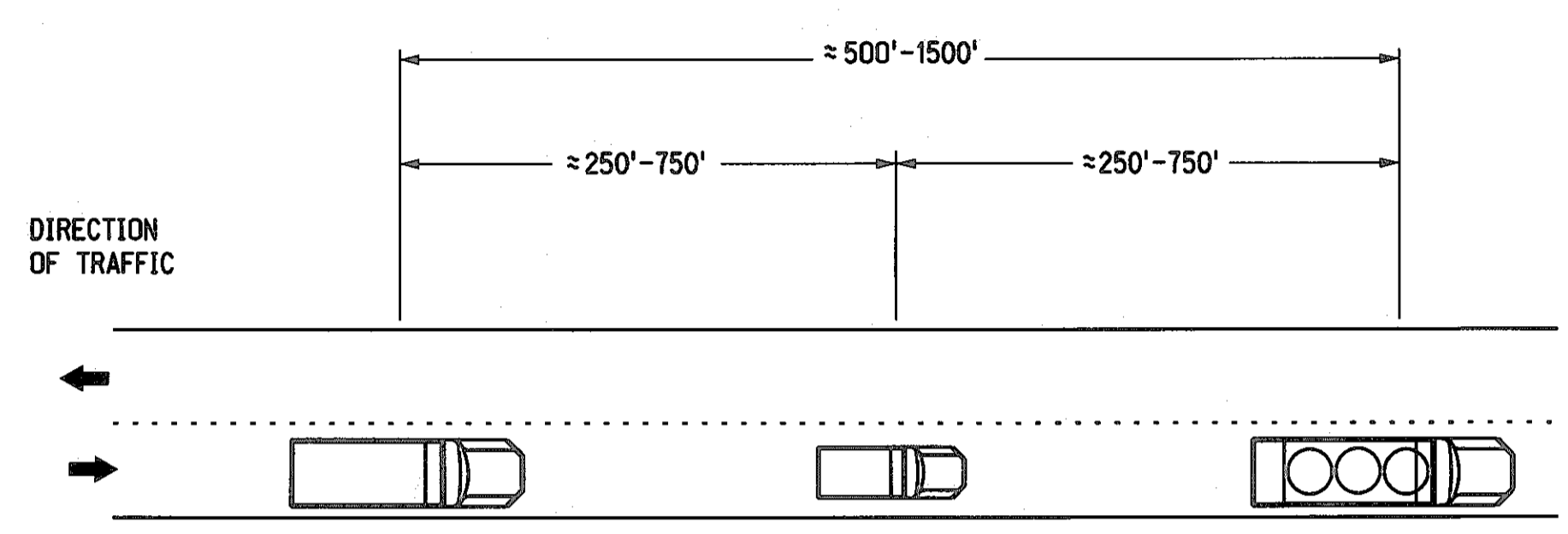
TYPES OF ASPHALTIC OIL TO BE USED
TACK COAT: SS-1, SS-1H, CSS-1, CSS-1H, CFS-1, FS-1
PERFORMANCE GRADED BINDER
AASHTO DESIGNATION M320



# SIGNING PLAN

## STRIPING ON RURAL TWO-LANE TWO-WAY ROADS

## STRIPING ON RURAL MULTI-LANE ROADWAY



REAR VEHICLE WITH 2 HIGH INTENSITY FLASHING LIGHTS MOUNTED ON THE REAR AND 2-360° BEACONS OR APPROVED MINI-BAR LIGHT (TMA OPTIONAL)

OPTIONAL VEHICLE WITH 2-360° BEACONS OR APPROVED MINI-BAR LIGHT

STRIPING VEHICLE WITH 4 HIGH INTENSITY FLASHING LIGHTS MOUNTED ON REAR AND 2-360° BEACONS OR APPROVED MINI-BAR LIGHT

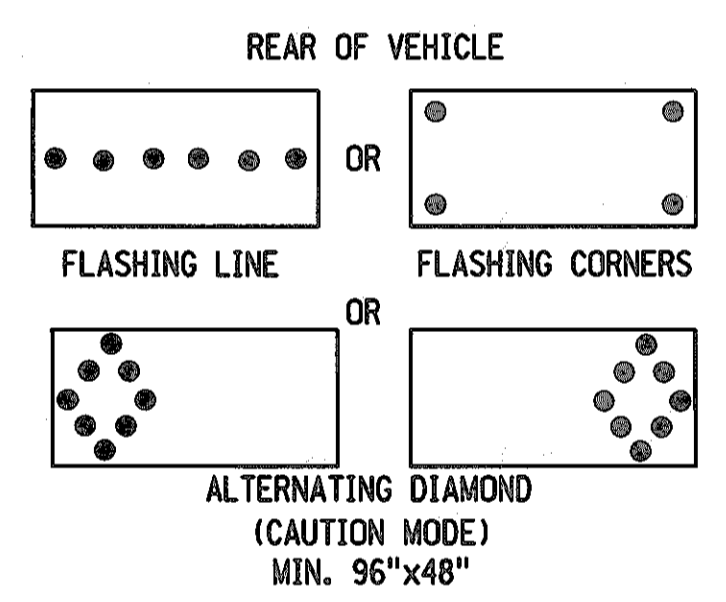
WARNING VEHICLE WITH 2 HIGH INTENSITY FLASHING LIGHTS MOUNTED ON REAR AND 2-360° BEACONS OR APPROVED MINI-BAR LIGHT

REAR VEHICLE W/TMA WITH 2 HIGH INTENSITY FLASHING LIGHTS MOUNTED ON THE REAR AND 2-360° BEACONS OR APPROVED MINI-BAR LIGHT

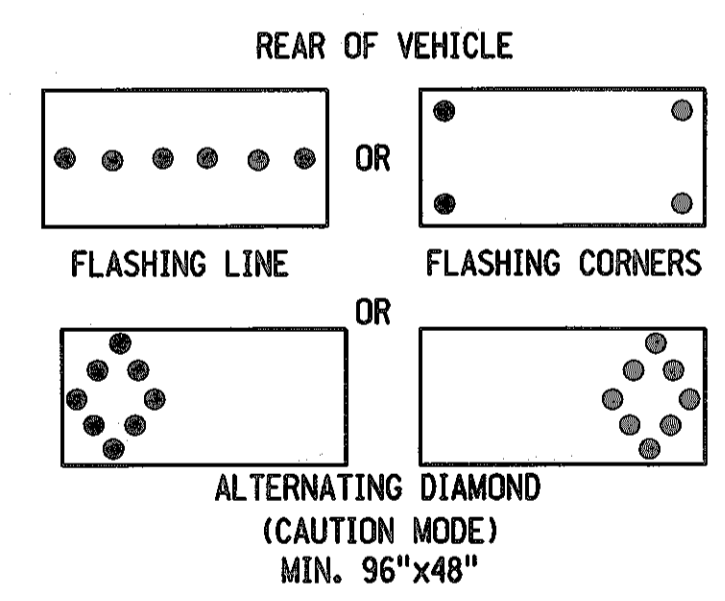
TRAILING VEHICLE WITH 2-360° BEACONS OR APPROVED MINI-BAR LIGHT AND OPTIONAL DRONE RADAR OR CB ALERT WARNING RADIO

OPTIONAL VEHICLE WITH 2-360° BEACONS OR APPROVED MINI-BAR LIGHT

STRIPING VEHICLE WITH 4 HIGH INTENSITY FLASHING LIGHTS MOUNTED ON REAR AND 2-360° BEACONS OR APPROVED MINI-BAR LIGHT



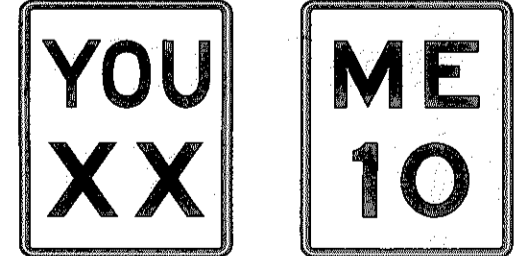
SINGLE STROBE LIGHT ON FRONT OF STRIPER  
REAR OF STRIPER ARROW PANEL



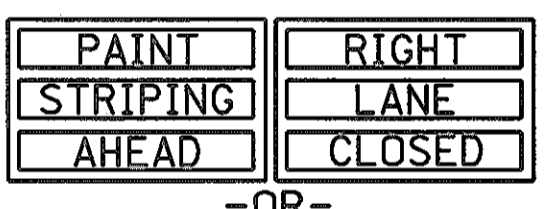
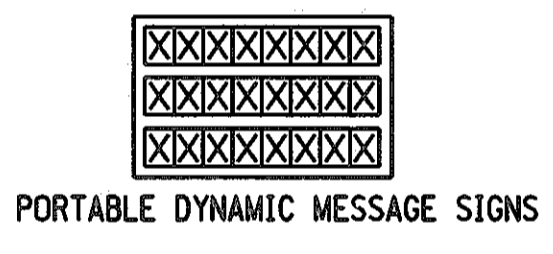
SIZE OF SIGN TO BE DETERMINED BY CONSTRAINTS OF STRIPER



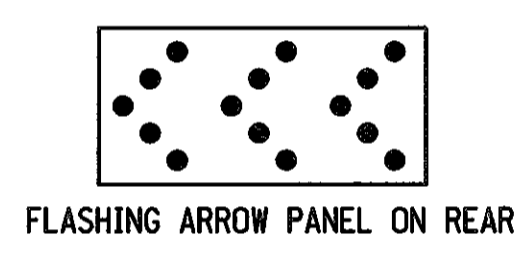
W41-8-54  
54" X 34"



OPTIONAL SPEED DISPLAY UNITS



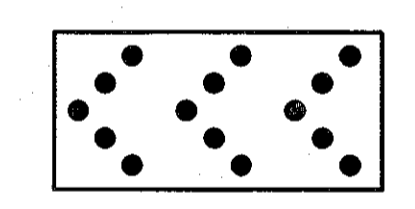
TWO MESSAGES (1.6 - 2.0 SECONDS PER MESSAGE)



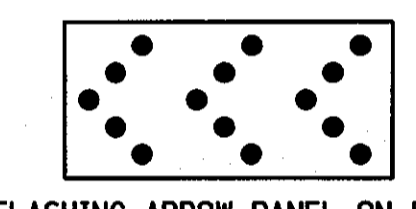
FLASHING ARROW PANEL ON REAR



W41-8-54  
54" X 34"



OPTIONAL FLASHING ARROW PANEL



FLASHING ARROW PANEL ON REAR



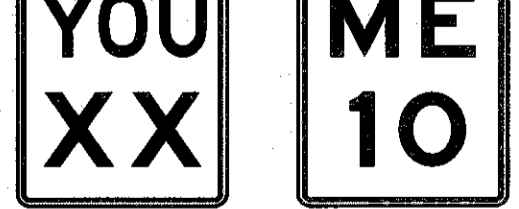
W41-8  
SIZE OF SIGN TO BE DETERMINED BY CONSTRAINTS OF STRIPER

### TRUCK MOUNTED ATTENUATOR SYSTEM:

1. THE CONTACTOR SHALL FURNISH A FEDERALLY APPROVED TRUCK MOUNTED ATTENUATOR SYSTEM, MOUNTED ON A MINIMUM 16,000 POUND TRUCK. THE TRUCK SHALL BE EQUIPPED WITH 60" X 30" FLASHING ARROW PANEL, SECURELY MOUNTED ON THE TRUCK. THE TMA SYSTEM SHALL BE LOCATED IN THE FIELD AS REQUIRED BY THE MANUFACTURER. A COMPLETE SET OF REPLACEMENT MODULES SHALL BE AVAILABLE NEAR THE PROJECT SITE IN THE EVENT OF DAMAGE TO THE INSTALLED TMA. DAMAGED TMA'S SHALL BE REMOVED FROM THE ROADWAY AND PROJECT WORK STOPPED UNTIL REPAIRS TO THE UNIT HAVE BEEN COMPLETED.
2. THE TRUCK MOUNTED ATTENUATOR SHALL BE AN NCHRP 350 OR MASH TEST LEVEL 3 APPROVED TMA FOR 100 KM PER HOUR (60 MPH).
3. THE TRUCK SHALL BE A 16,000 TO 35,000 POUND (GVW) VEHICLE AS REQUIRED BY THE TMA MANUFACTURER.
4. THE FLASHING ARROW PANEL SHALL BE SECURELY MOUNTED AS HIGH AS PRACTICABLE ON THE VEHICLE. THE ARROW PANEL SHALL NOT COME LOOSE UPON IMPACT TO THE TMA.



W41-8-54  
54" X 34"



OPTIONAL SPEED DISPLAY UNITS

### RURAL MULTI-LANE NOTES:

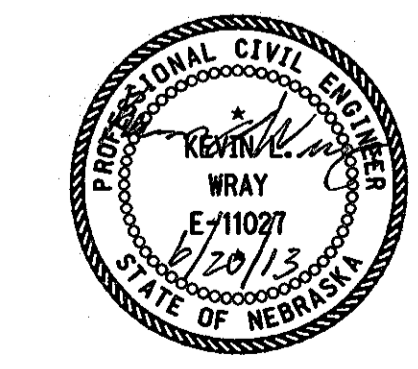
1. WHEN WORKING ON INSIDE (LEFT) LANES VEHICLES SHALL MOVE TO SIMILAR POSITIONS IN THAT LANE.
2. WARNING VEHICLE WILL REMAIN ON RIGHT SHOULDER WHEN AN 8' OR WIDER PAVED INSIDE (LEFT) SHOULDER DOES NOT EXIST.
3. REAR VEHICLE WITH TMA SHALL NOT BE SUPPLY VEHICLE UNLESS PAINT IS UNLOADED.

### GENERAL NOTES:

- REAR VEHICLE SHALL BE PLACED IN ADVANCE OF HORIZONTAL OR VERTICAL CURVES TO PROVIDE ADVANCE WARNING FOR WORK OPERATIONS HIDDEN BY CURVES.
- VEHICLE SPACING MAY VARY DEPENDING ON RATE OF APPLICATION, SPEED, AND DRYING TIME.
- WHEN OPTIONAL CB ALERT WARNING RADIOS ARE USED THE TRANSMITTER MUST REMAIN WITH ONE OF THE VEHICLES IN THE STRIPING TRAIN.

### RURAL TWO-LANE NOTES:

1. CAUTION MODE ON STRIPING UNIT AND REAR VEHICLE SHALL BE ALTERNATING DIAMOND OR THE FLASHING 4 CORNER LIGHTS IF THE DIAMOND MODE IS NOT AVAILABLE.



NEBRASKA DEPARTMENT OF ROADS TRAFFIC ENGINEERING DIVISION			
TRAFFIC CONTROL PLAN			
DESIGNED	TJF	VEHICLE SIGNING FOR PAINT STRIPING	
REVIEWED		DATE	
APPROVED	DATE DRAWN	TRAFFIC ENGINEER	DATE
	12/12		

TRAFFIC ENGINEERING DIVISION

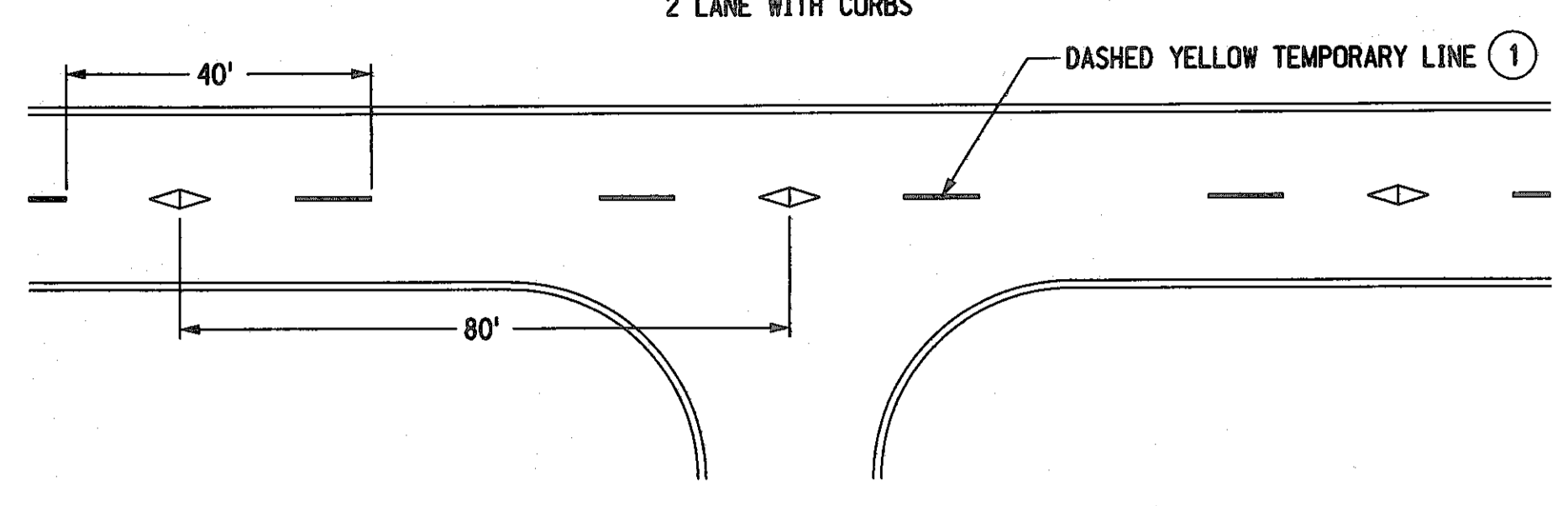
Computer: DRTRAFFIC46

User: Dor23027

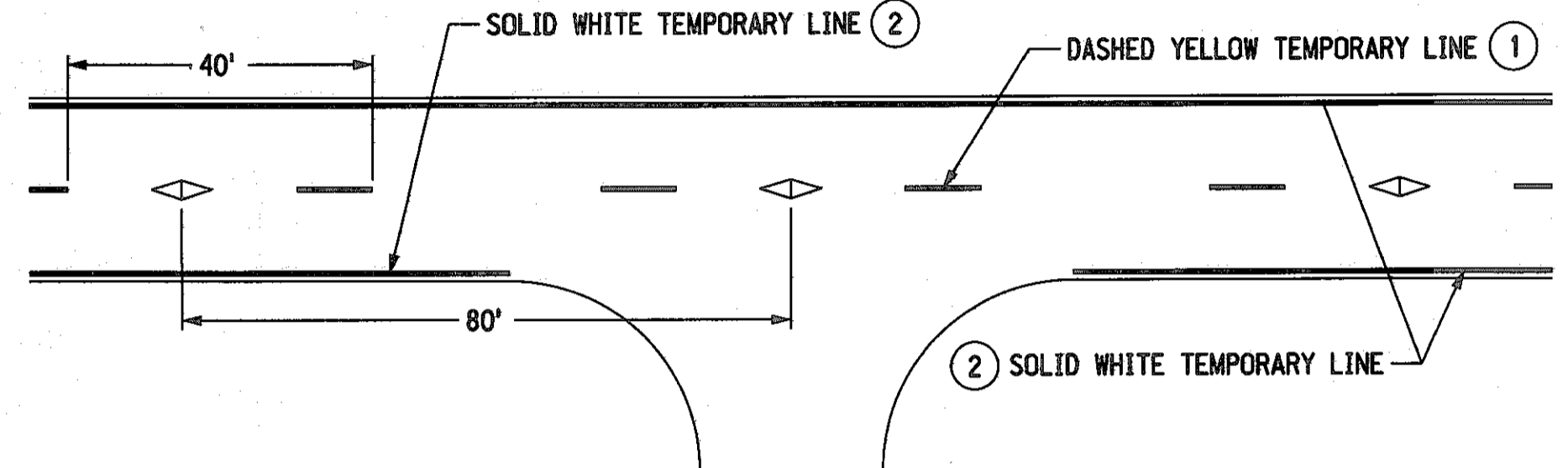
Date: 18-NOV-2014 13:28

File: ptemp-1 r5.dgn  
Scale: 1:100

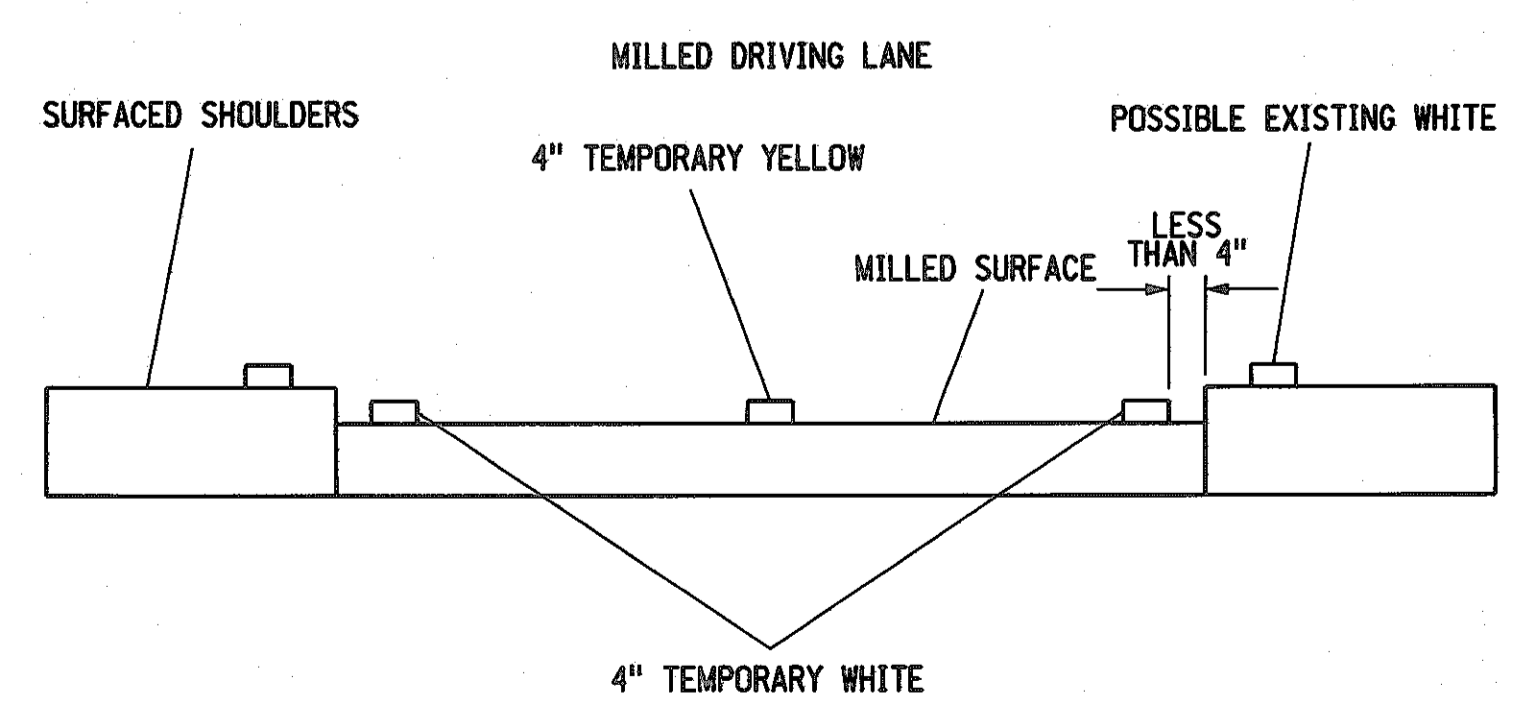
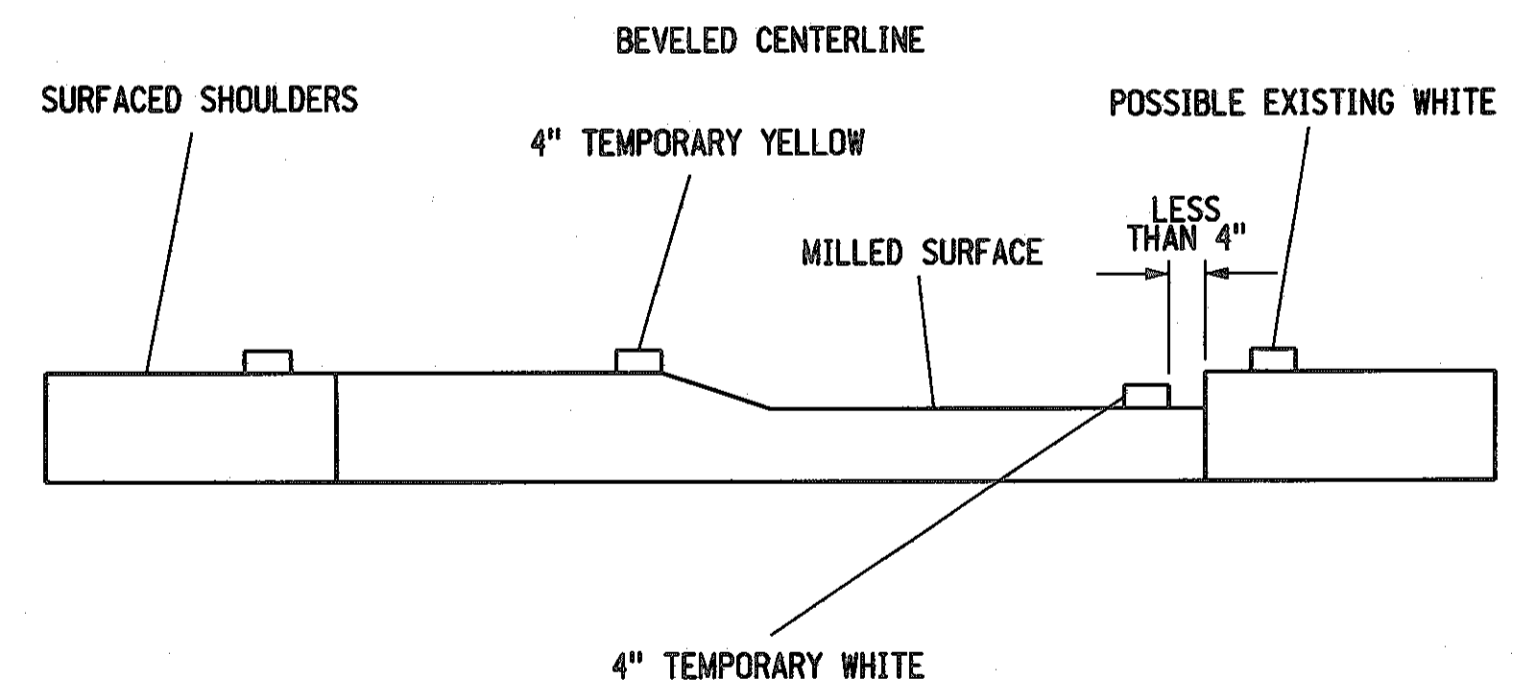
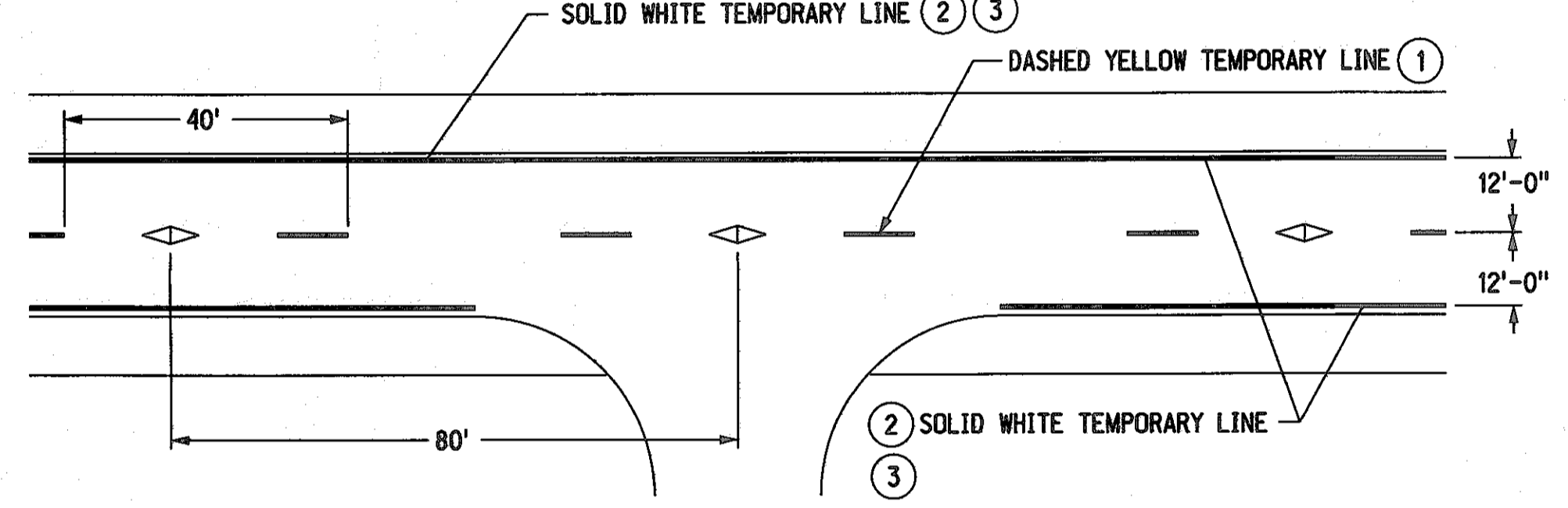
2 LANE ROADWAYS



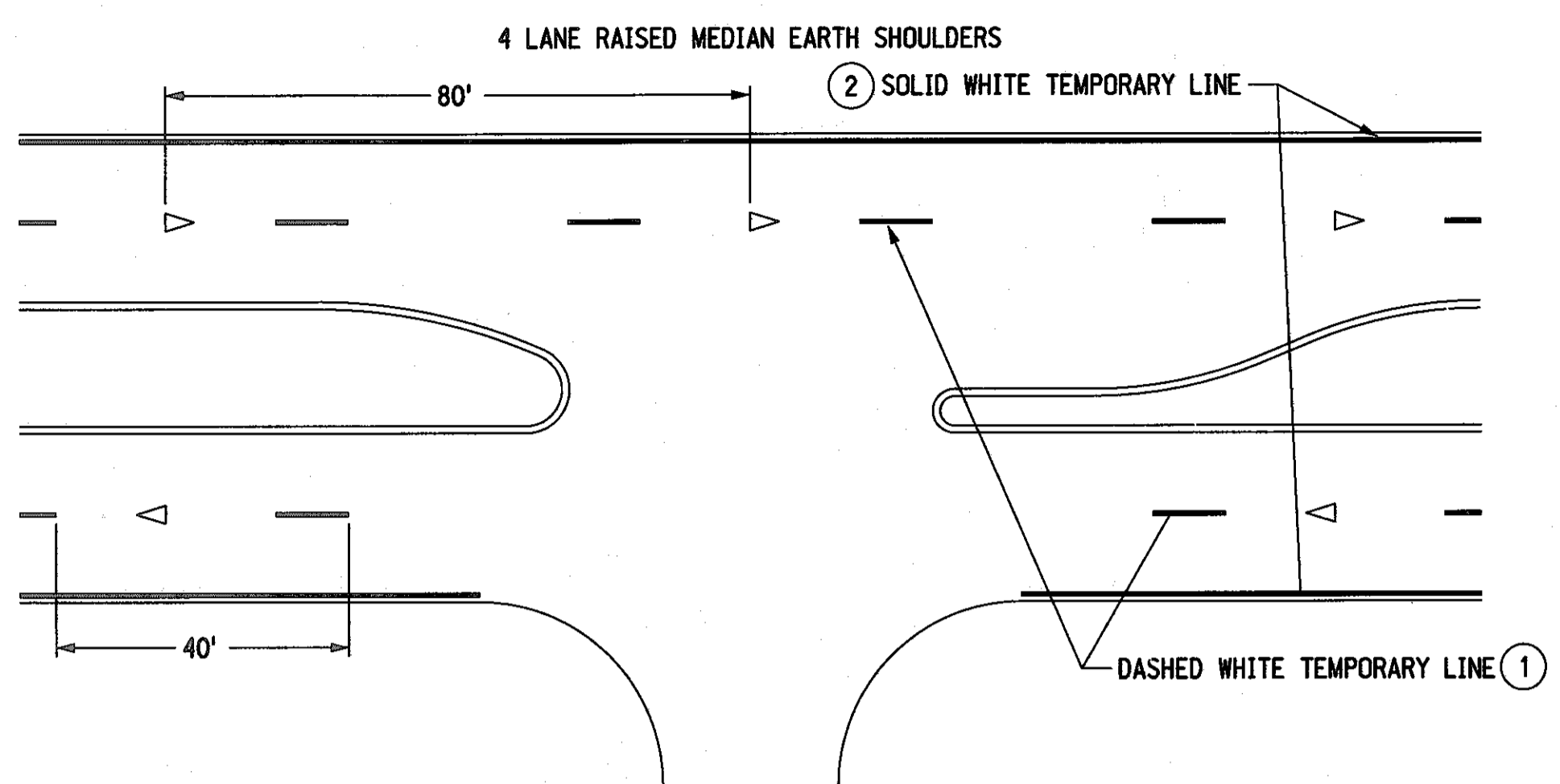
2 LANE EARTH SHOULDERS



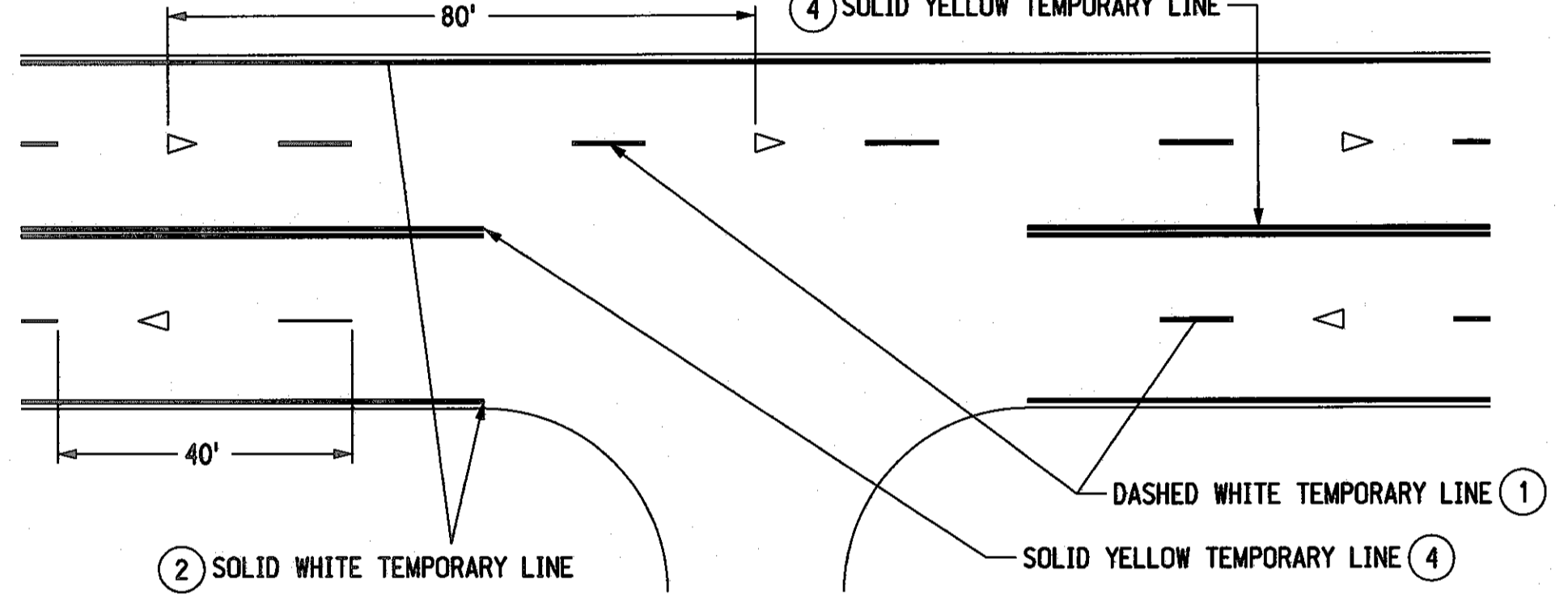
2 LANE SURFACED SHOULDERS



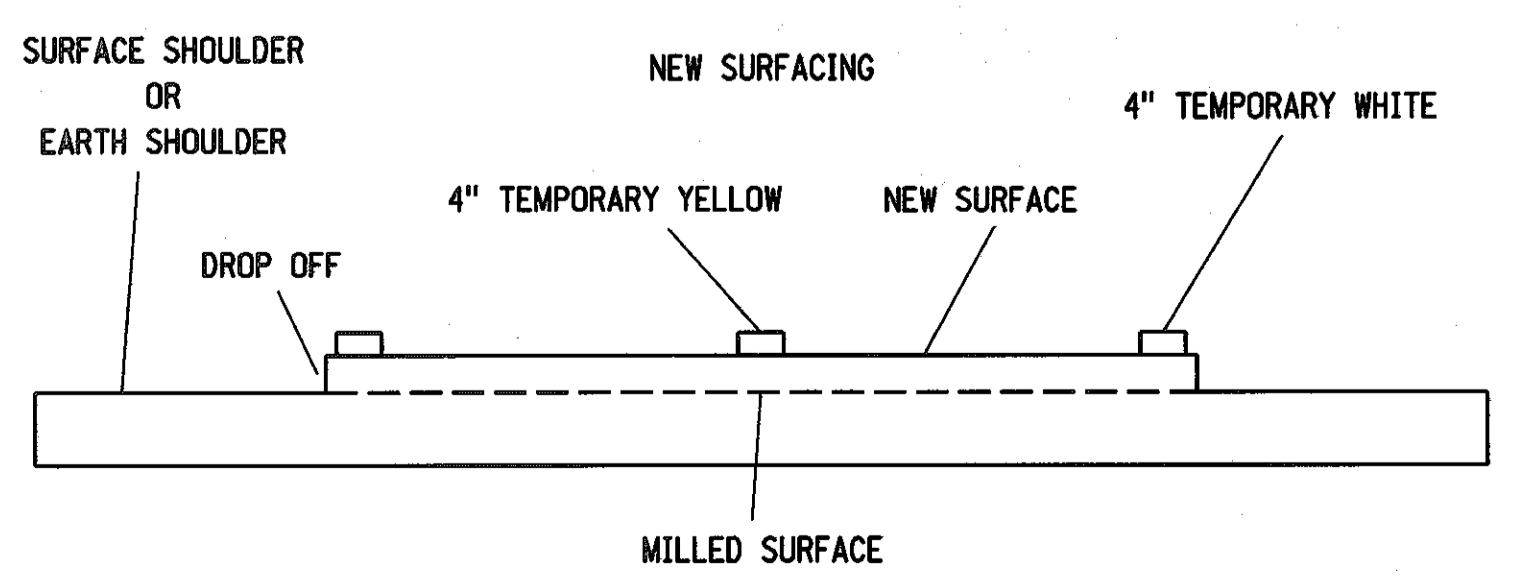
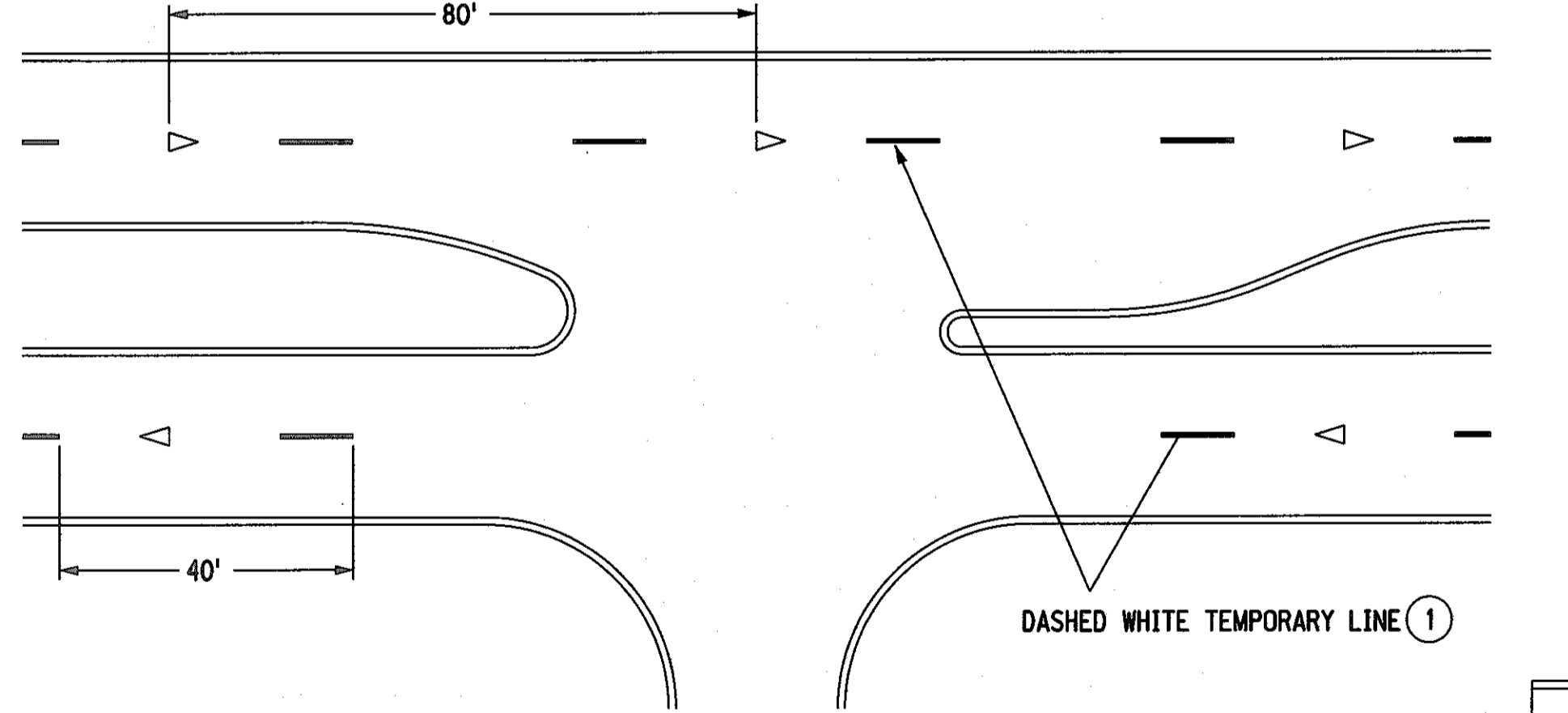
4 LANE ROADWAYS



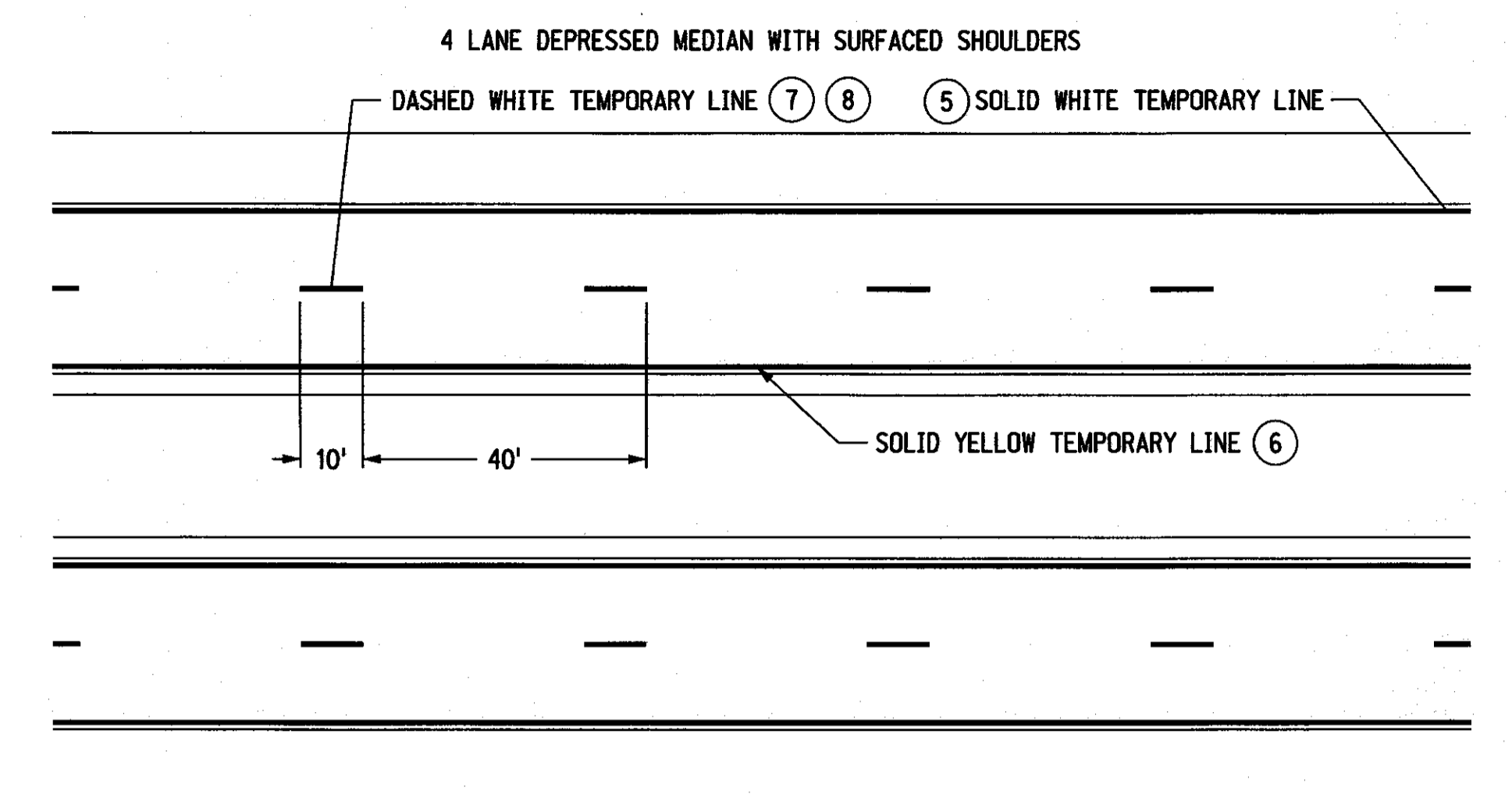
4 LANE EARTH SHOULDERS



4 LANE RAISED MEDIAN WITH CURBS



FREEWAY/RURAL EXPRESSWAY



NOTES

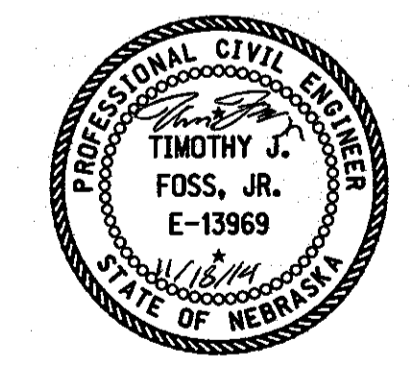
- ① LOWER LAYERS: TEMPORARY DASHED LINE SHALL BE 4" X 10' PAINTED LINE AT 40' INTERVALS OR 4" X 4' TYPE I TAPE LINE AT 40' INTERVALS. TAPE OR PAINT WILL BE SUPPLEMENTED WITH AN OVERLAY MARKER EVERY 80 FEET.
  - OVERLAY MARKERS ARE NOT REQUIRED ON MILLED SURFACES, HYDRATED LIME SURFACES AND STABILIZED 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	DATE 8/06
REVIEWED MAN	TRAFFIC ENGINEER	



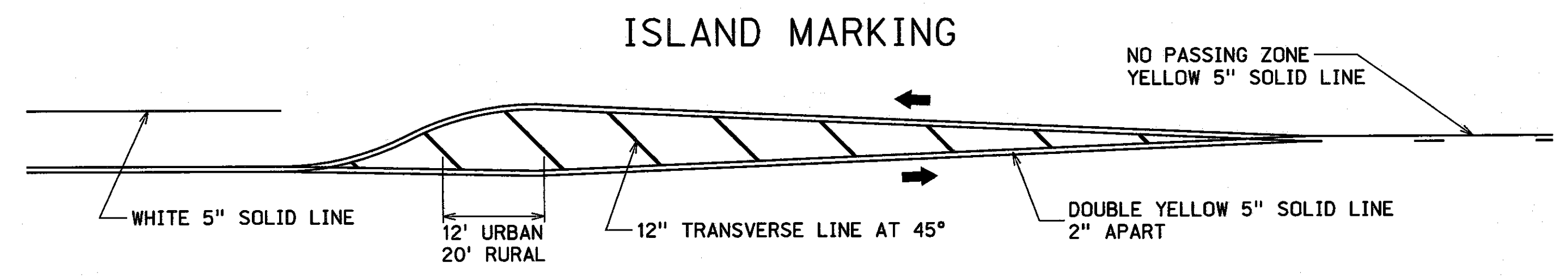
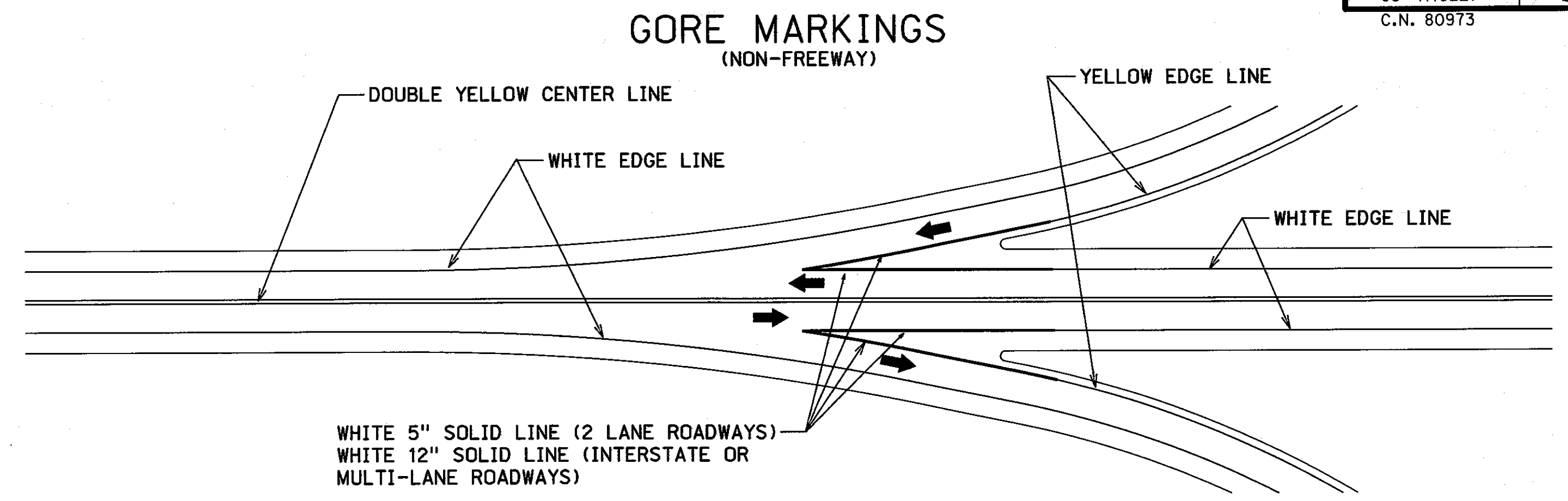
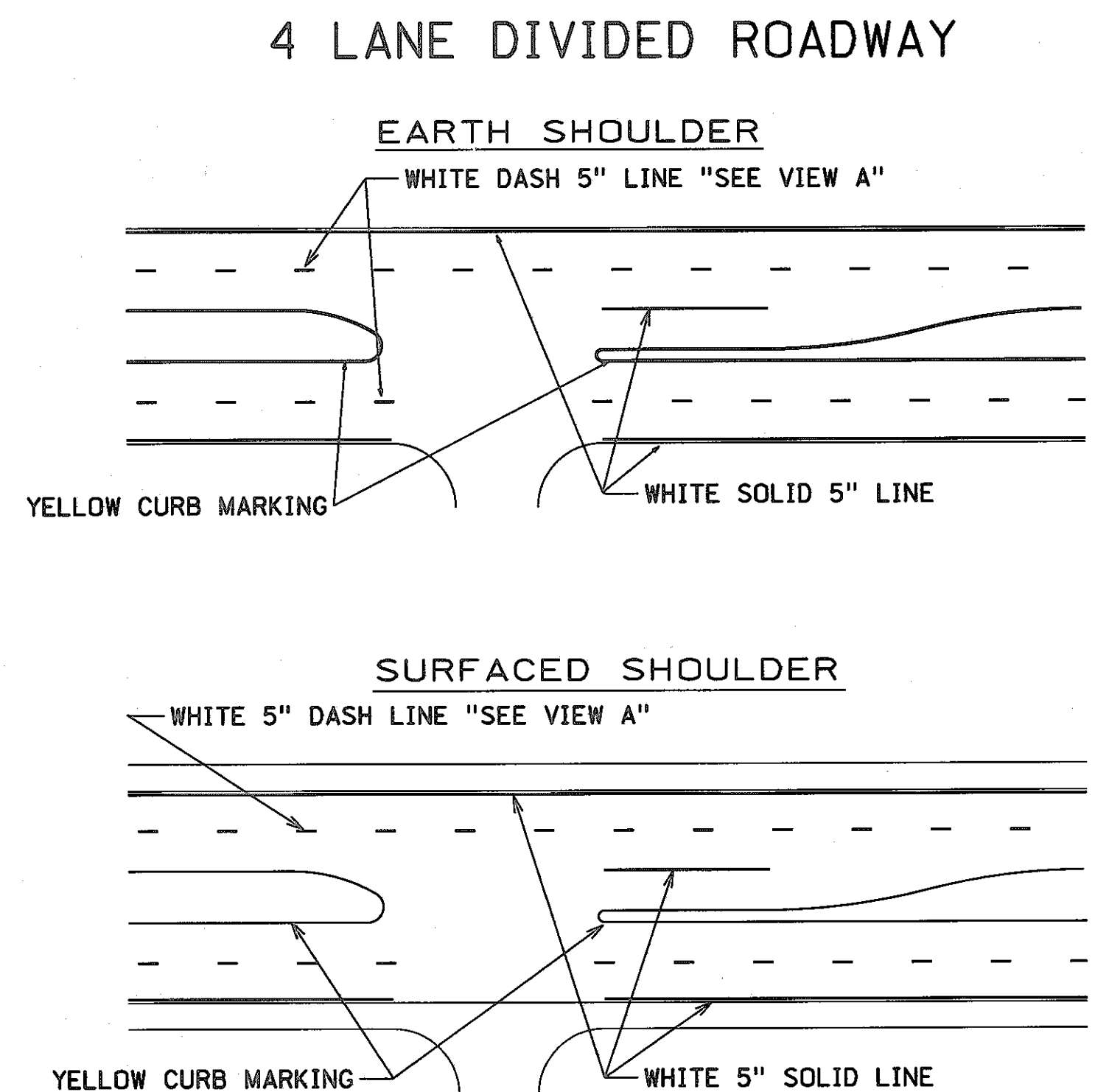
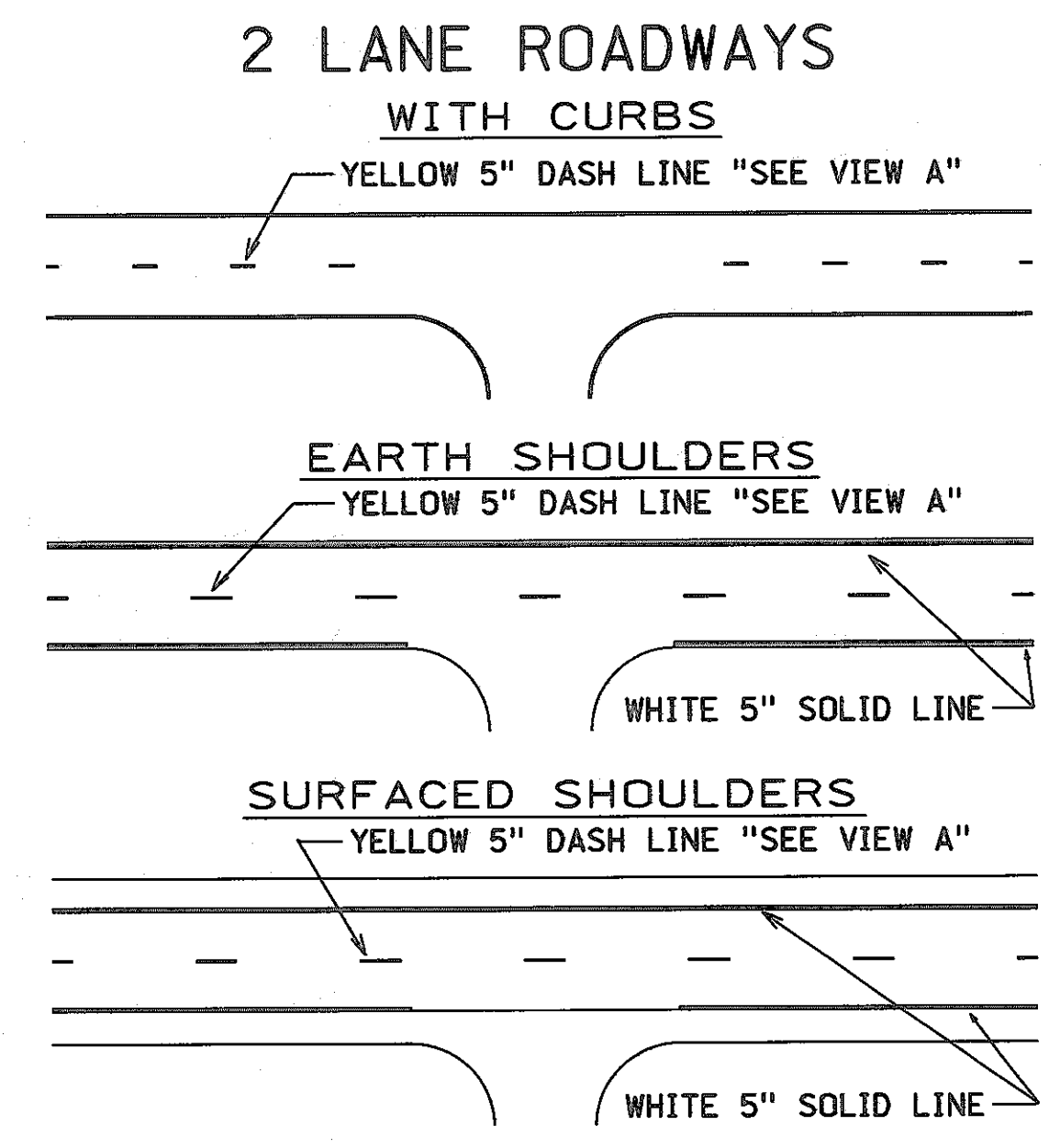
TRAFFIC ENGINEERING DIVISION

Computer: DRTRAFFIC46

User: Dor23027

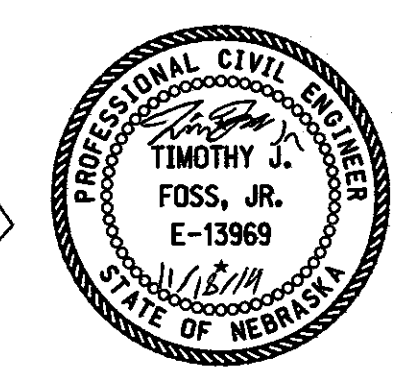
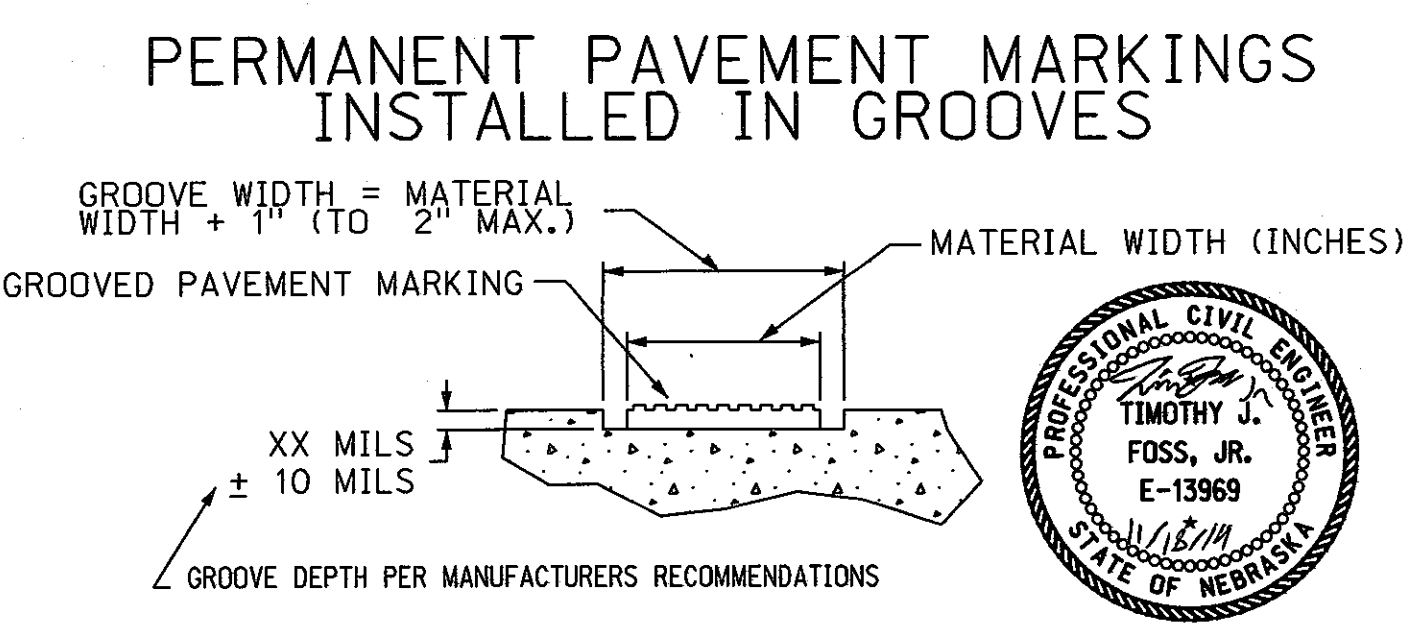
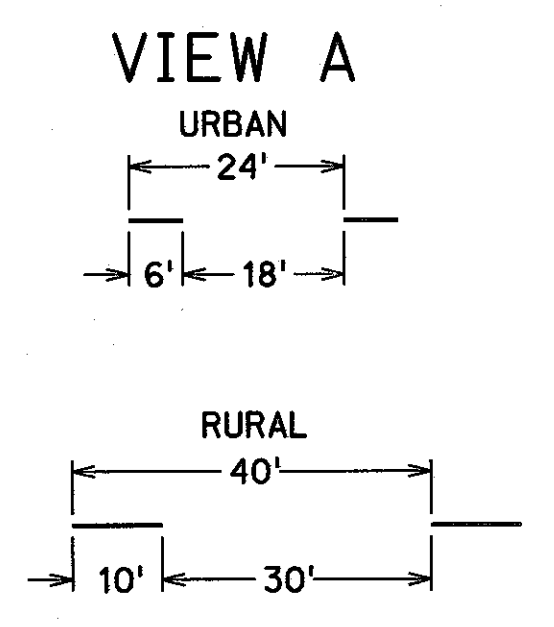
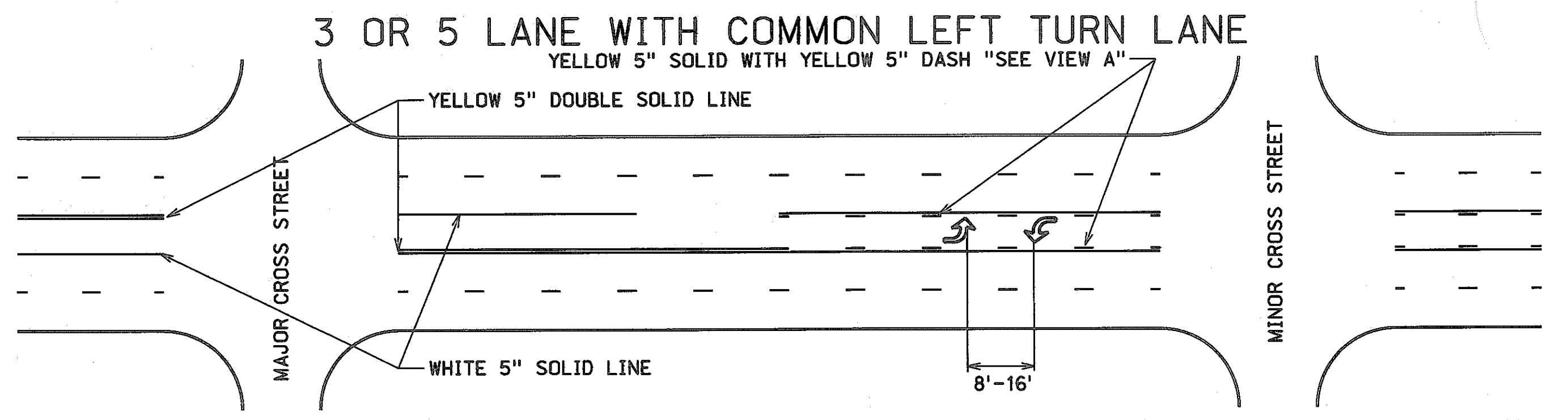
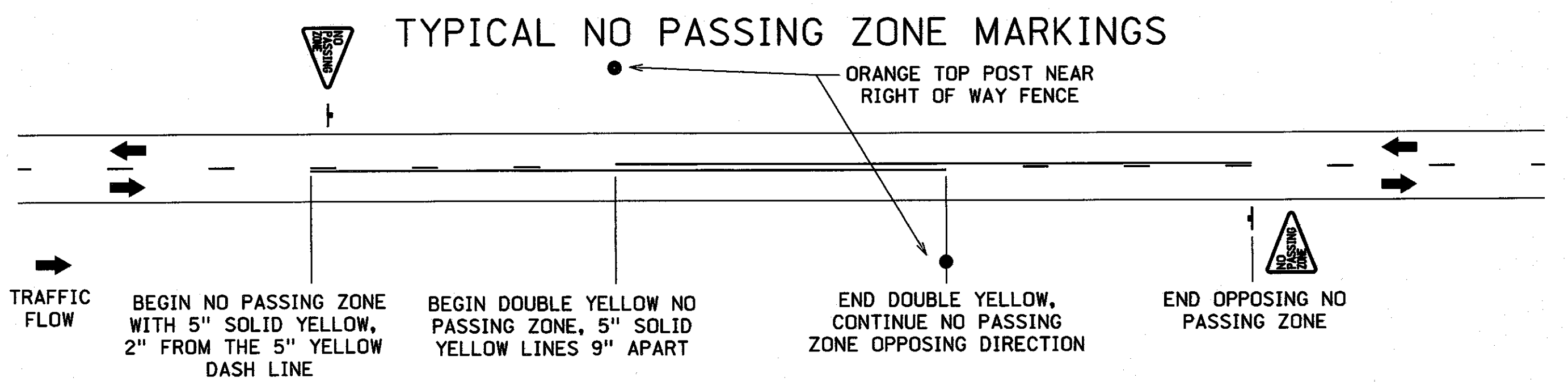
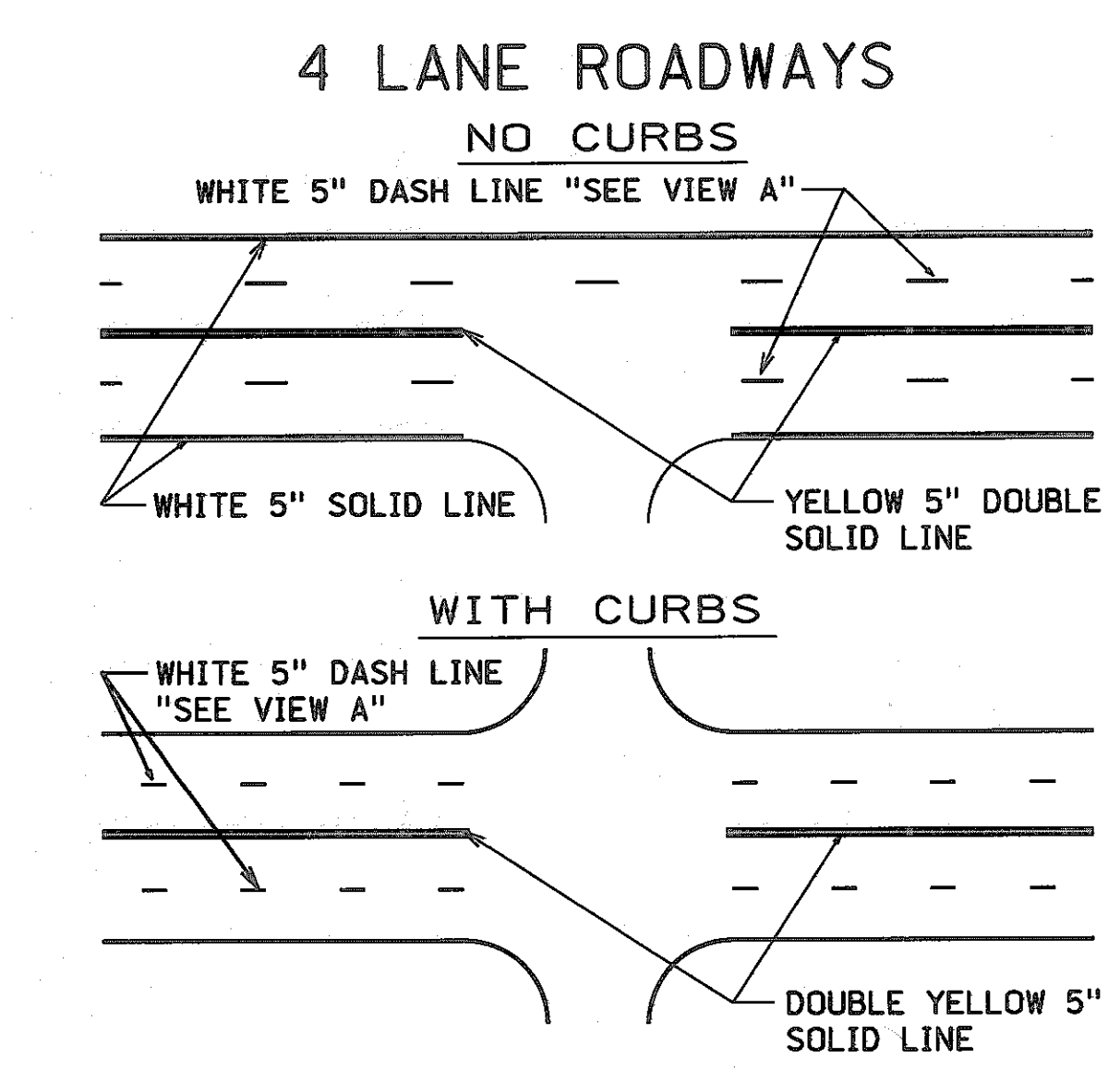
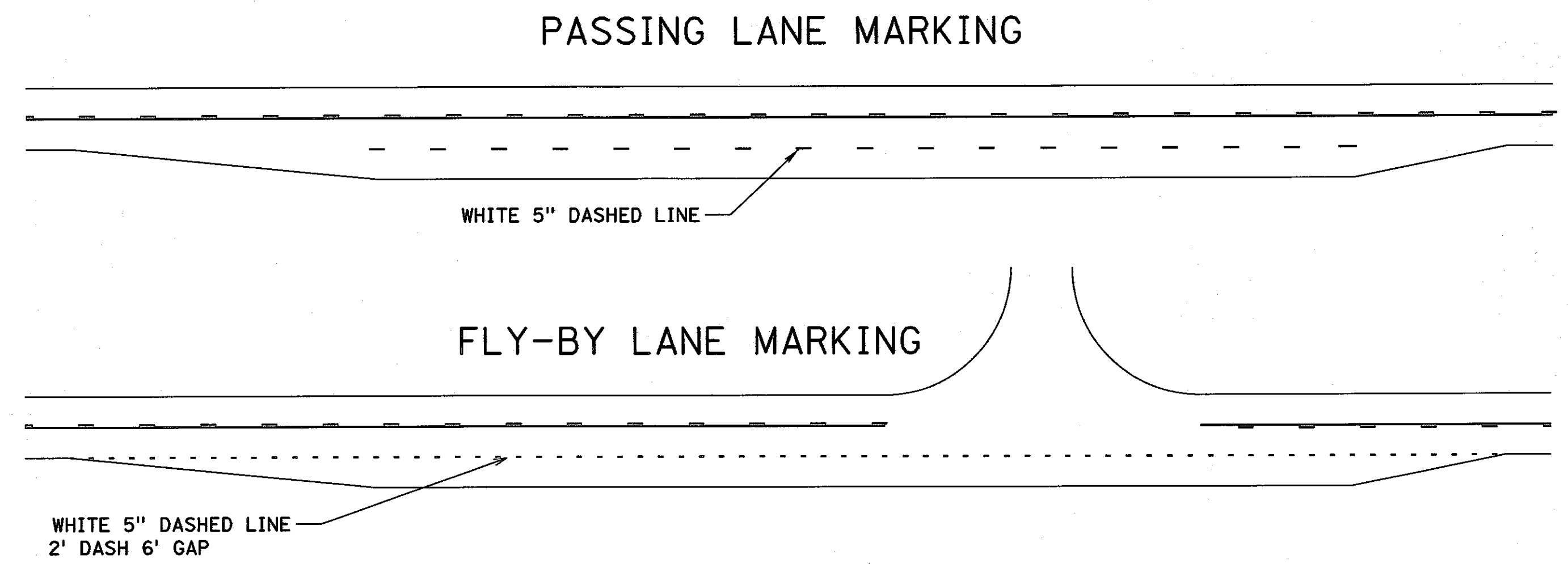
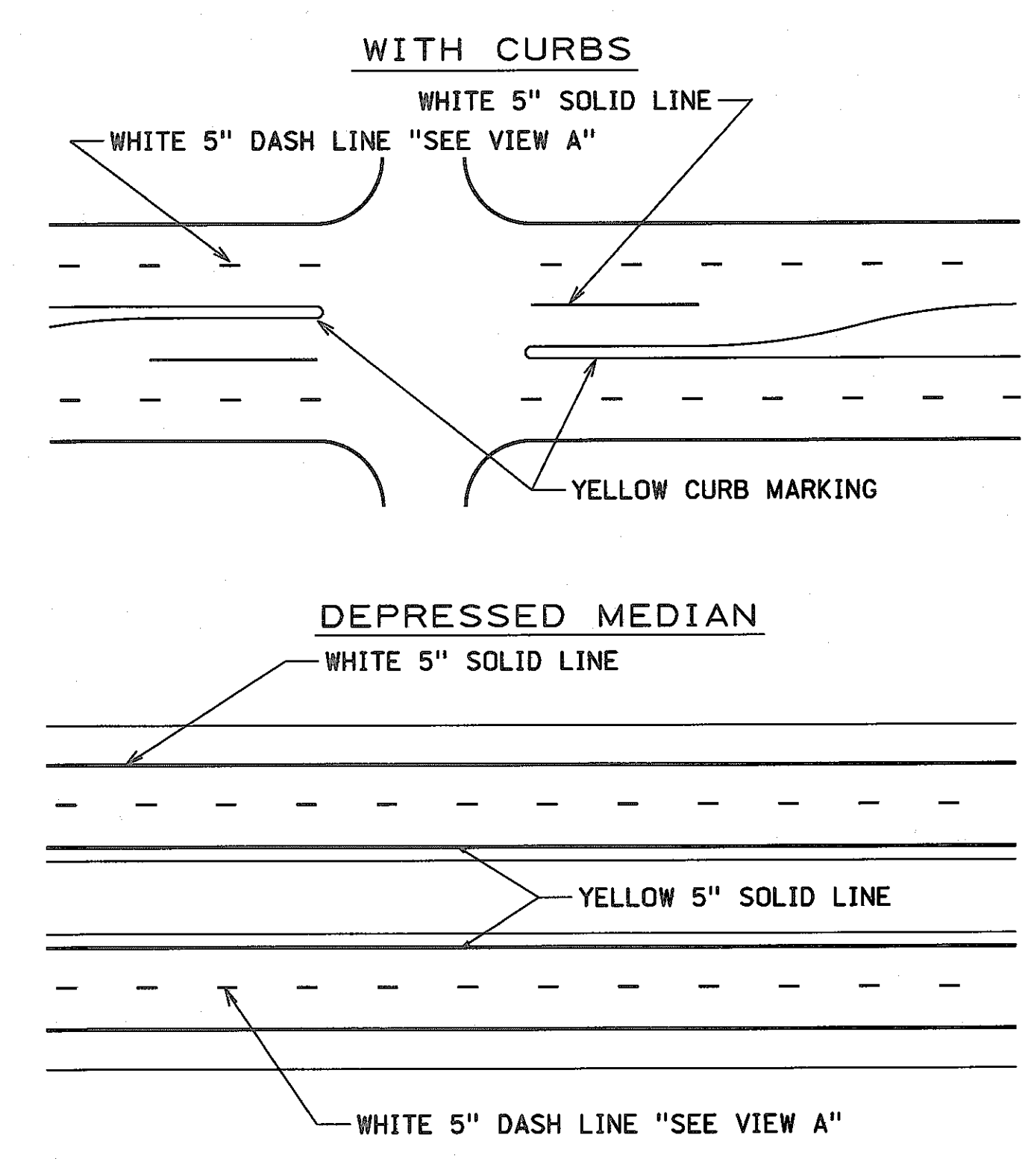
Date: 18-NOV-2014 13:30

File: psptpm-2\_r1.dgn  
Scale: 1:100



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



NEBRASKA DEPARTMENT OF ROADS TRAFFIC ENGINEERING DIVISION			
TYPICAL PAVEMENT MARKING PLAN			
DESIGNED	TJF	5" PAVEMENT MARKING	
REVIEWED			1/1
APPROVED	DATE DRAWN	TRAFFIC ENGINEER	DATE
	12/12		