

INDEX OF SHEETS

SHEET NO.

- 1 TITLE PAGE
- 2-T TYPICAL CROSS SECTIONS
- 2-S SUMMARY OF QUANTITIES
- 3 TEMPORARY PAVEMENT MARKING PLAN

STANDARD PLANS

- 920-R5 (2 SHEETS) TRAFFIC CONTROL, CONSTRUCTION AND MAINTENANCE
- 922-R8 (2 SHEETS) TRAFFIC CONTROL FOR ASPHALT SURFACING

**STATE OF NEBRASKA
DEPARTMENT OF ROADS**

PLANS FOR CONSTRUCTION

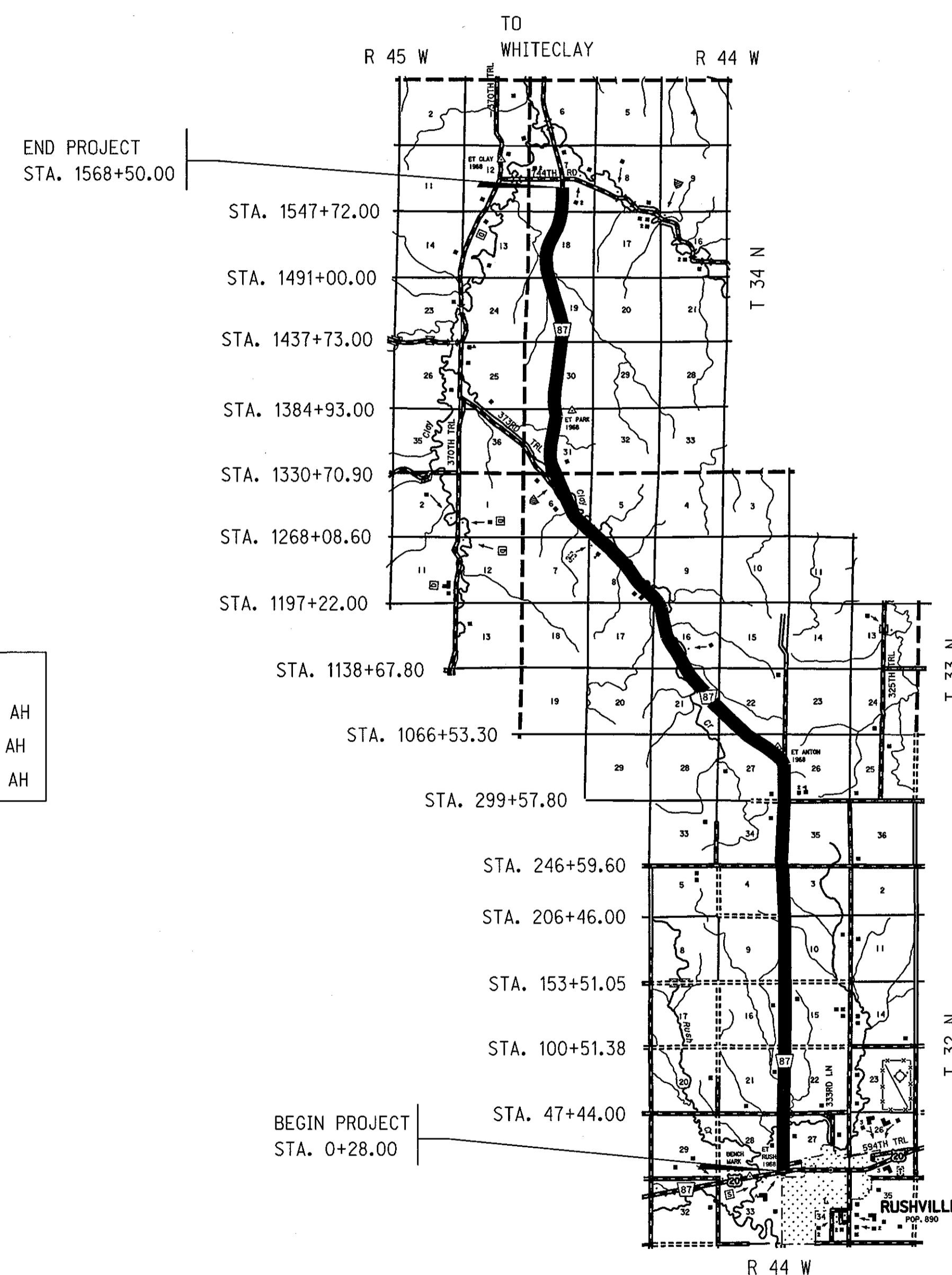
**E. JCT. US-20 NORTH
SHERIDAN COUNTY**

PROJECT NO.	SHEET NO.
STP-87-4(117)	1
▲ CONTROL NO. 51506	
▲ CONTROL NO.	
■ CONTROL NO.	

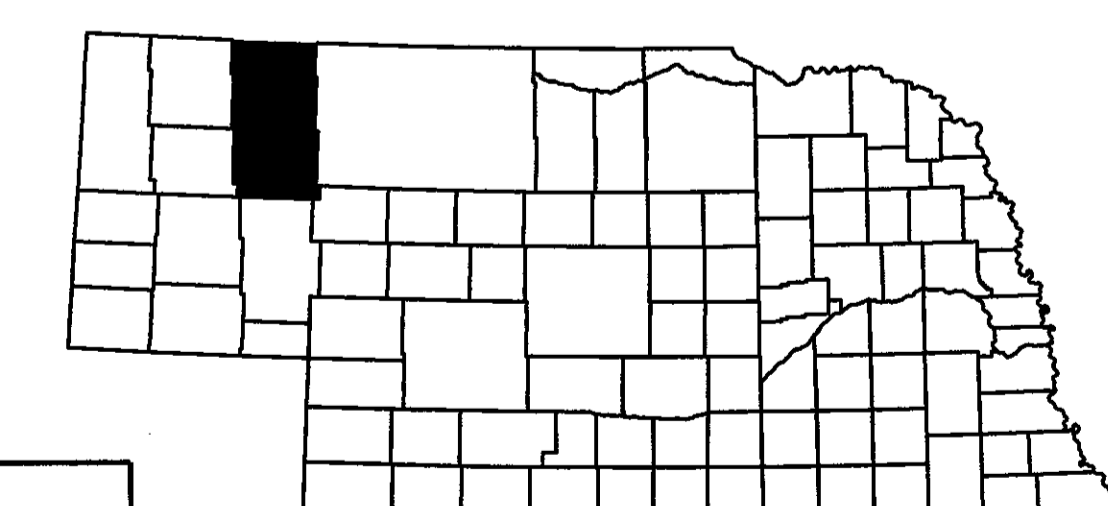
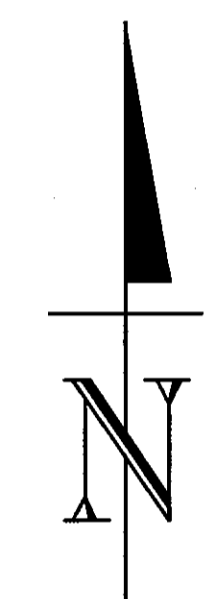
THE 2007 EDITION OF THE NEBRASKA STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS APPLY TO THIS PROJECT.

THE WORK ON THIS PROJECT CONSISTS OF GROUPS	
9-BITUMINOUS	
▲ GROUPS 9	ARE INCLUDED
IN THE LETTING OF FEBRUARY 6, 2014	
▲ GROUPS	ARE INCLUDED
IN THE LETTING OF	
■ GROUPS	ARE INCLUDED
IN THE LETTING OF	

DESIGN DESIGNATION
MAINTENANCE
TRAFFIC
YEAR: 2014
ADT: 1,005



EQUATIONS	
STA. 300+18.00 BK =	STA. 1000+60.00 AH
STA. 1173+44.00 BK =	STA. 1173+37.00 AH
STA. 1223+70.00 BK =	STA. 1223+40.00 AH

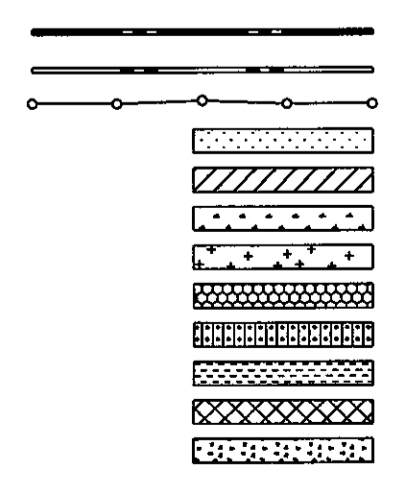


CONVENTIONAL SIGNS

- 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

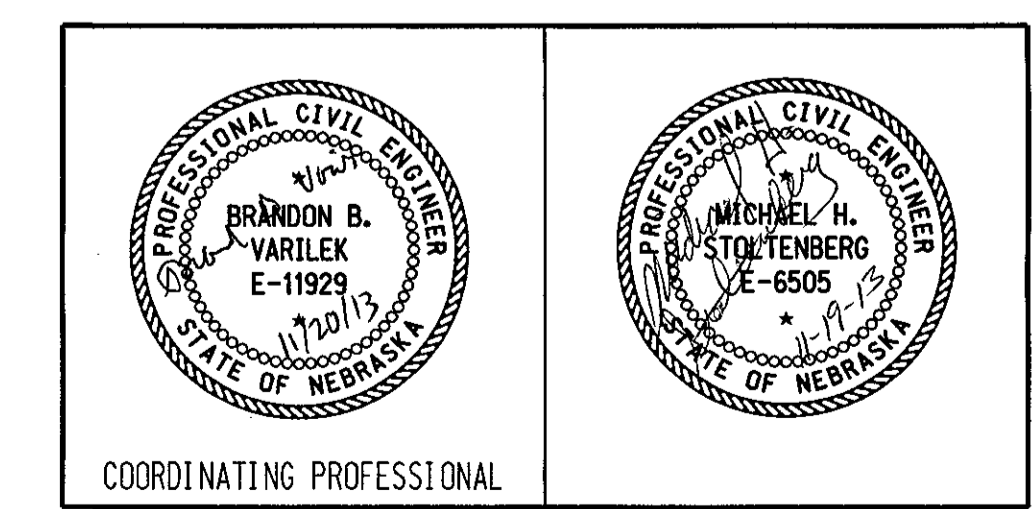
- NEW CONTROLLED ACCESS
- PREVIOUS CONTROLLED ACCESS
- LIMITS OF CONSTRUCTION
- PREVIOUS R.O.W.
- NEW R.O.W.
- EXISTING PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXCESS TAKING
- PERMANENT EASEMENT
- EXISTING RAILROAD EASEMENT
- NEW RAILROAD PERMANENT EASEMENT
- NEW RAILROAD TEMPORARY EASEMENT



REFERENCE POST NO. 55+76 TO REFERENCE POST NO. 72+18

EXCEPTIONS: FROM STA. TO STA.

TOTAL NET LENGTH OF PROJECT: 86,817.00 FEET 16.443 MILES



CONSTRUCTION DIVISION

Computer: DRCONSTRUCTIO

User: dor17005

Date: 18-NOV-2013 11:17

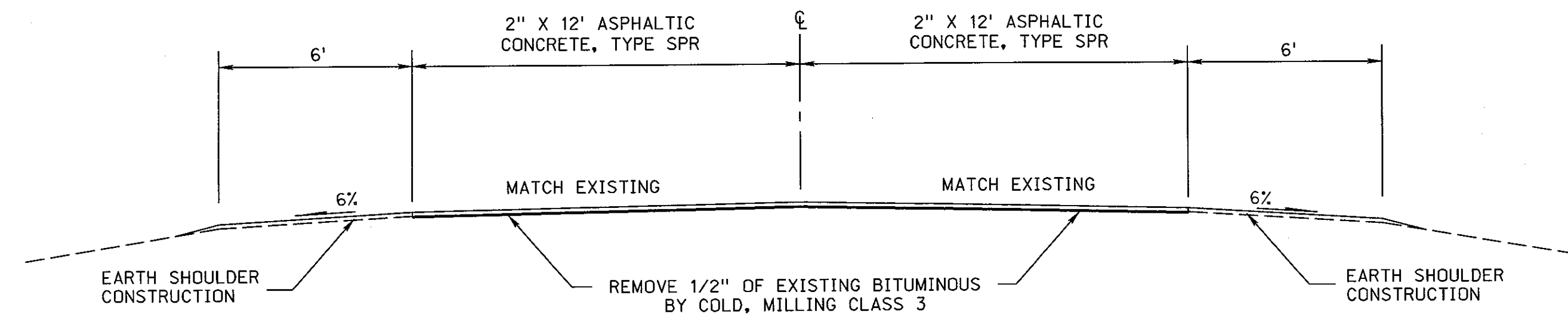
File: 51506pseffile.dgn
Scale: 1:100

PROJECT NO.	SHEET NO.
87-4(117)	2-T

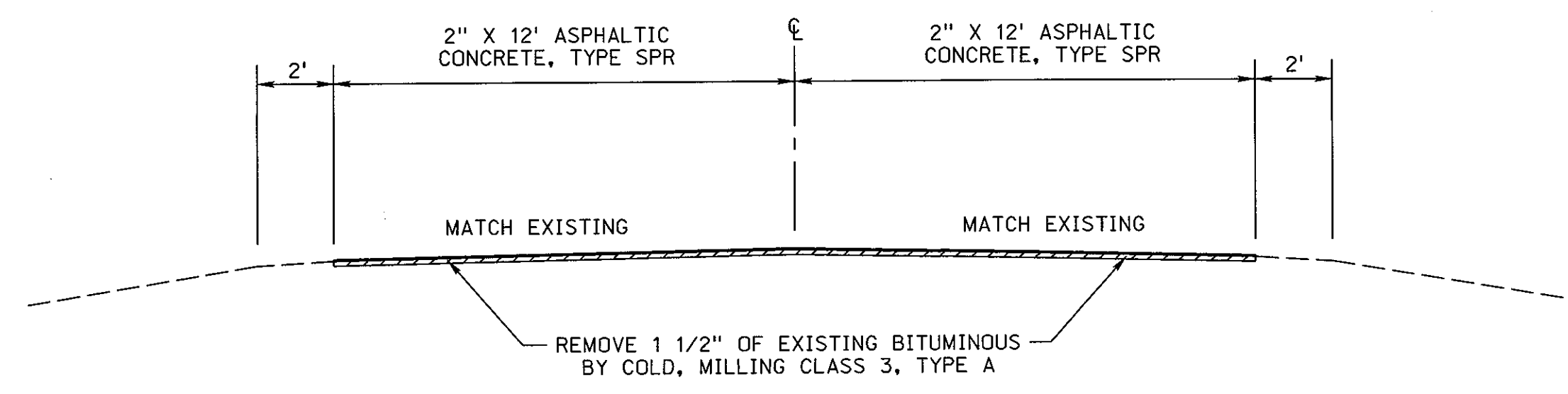
C.N. 51506

TYPICAL CROSS SECTIONS

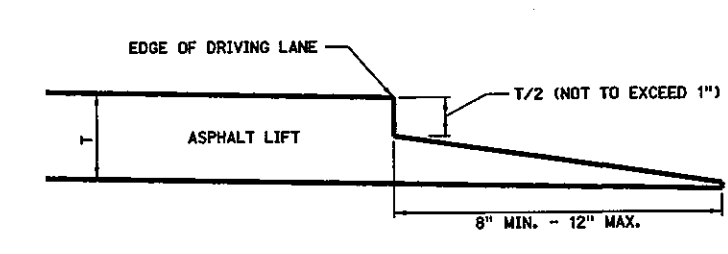
CONSTRUCTION DIVISION



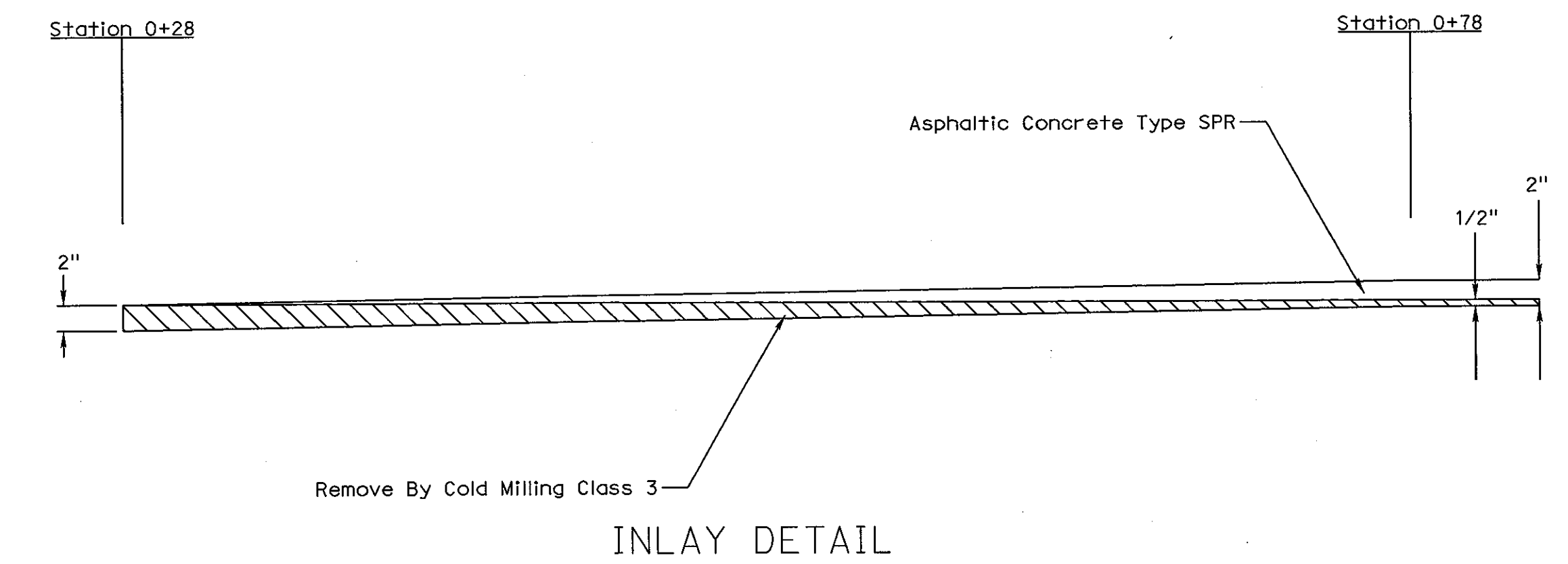
STATION TO STATION
 0+28 TO 1000+60
 EQUATION: STA. 300+18 BK = STA. 1000+60 AH



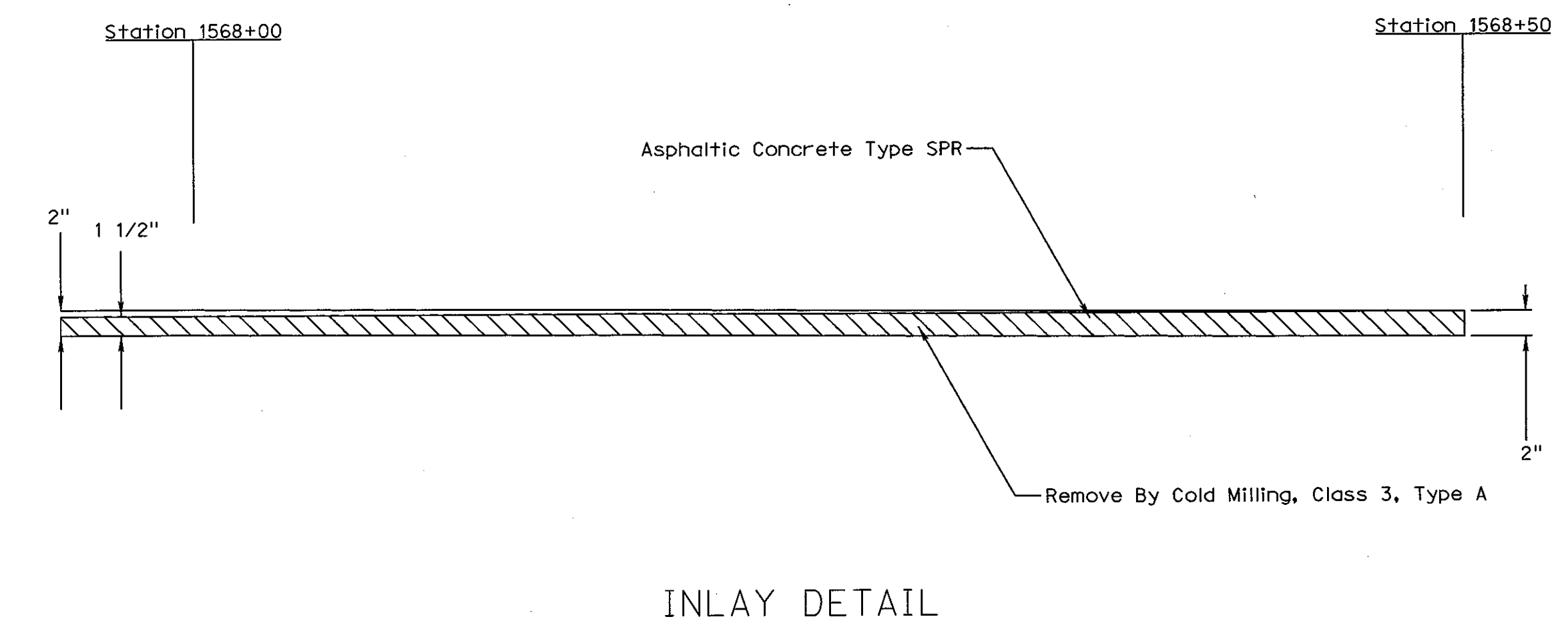
STATION TO STATION
 1000+60 TO 1568+50
 EQUATION: STA. 1173+44 BK = STA. 1173+37 AH
 STA. 1223+70 BK = STA. 1223+40 AH



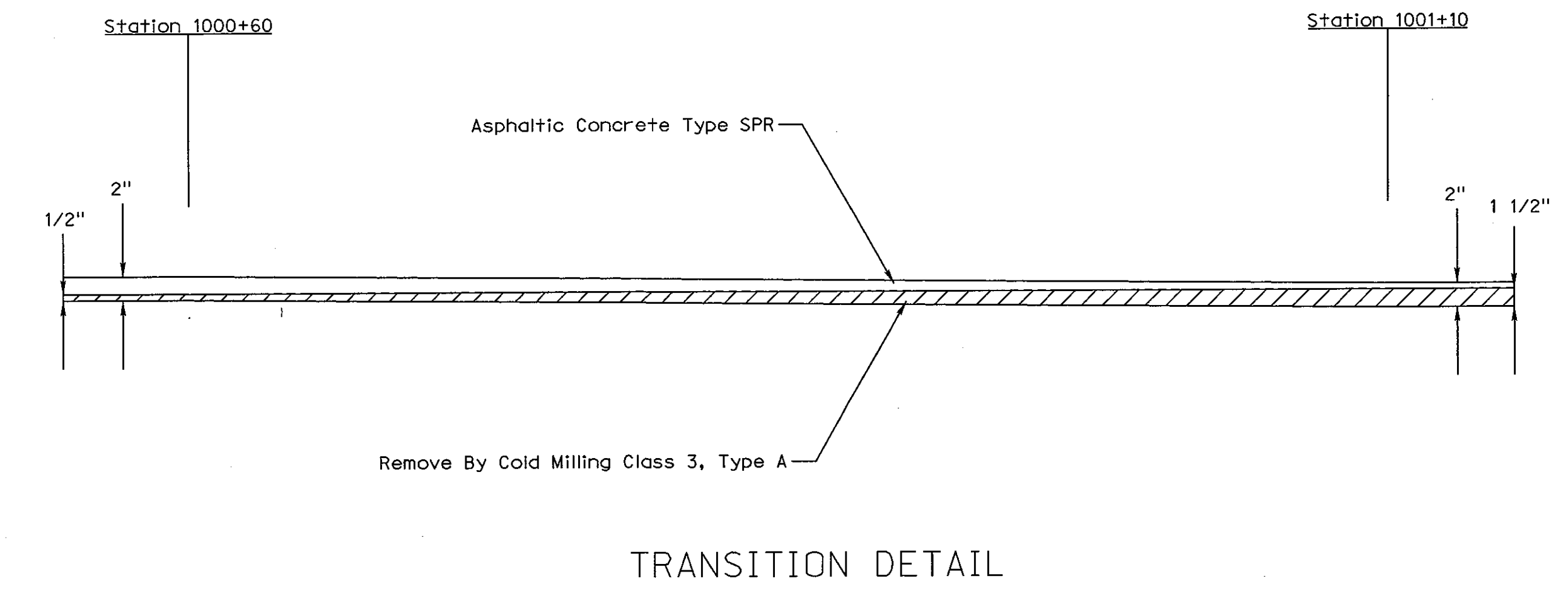
NOTCHED WEDGE JOINT
 (CONSTRUCTION DETAIL)



INLAY DETAIL



INLAY DETAIL



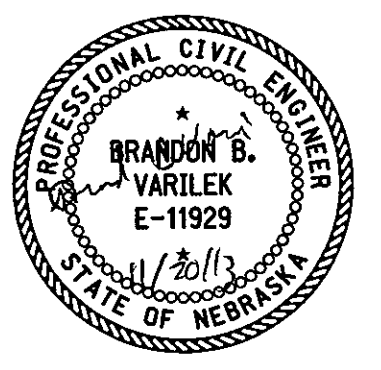
TRANSITION DETAIL

Computer: DRCONSTRUCT10

User: dor17005

Date: 13-NOV-2013 13:48

File: 5150600set111e.dgn
 Scale: 1:100



SUMMARY OF QUANTITIES

PROJECT NO.	SHEET NO.
87-4(117)	2-S

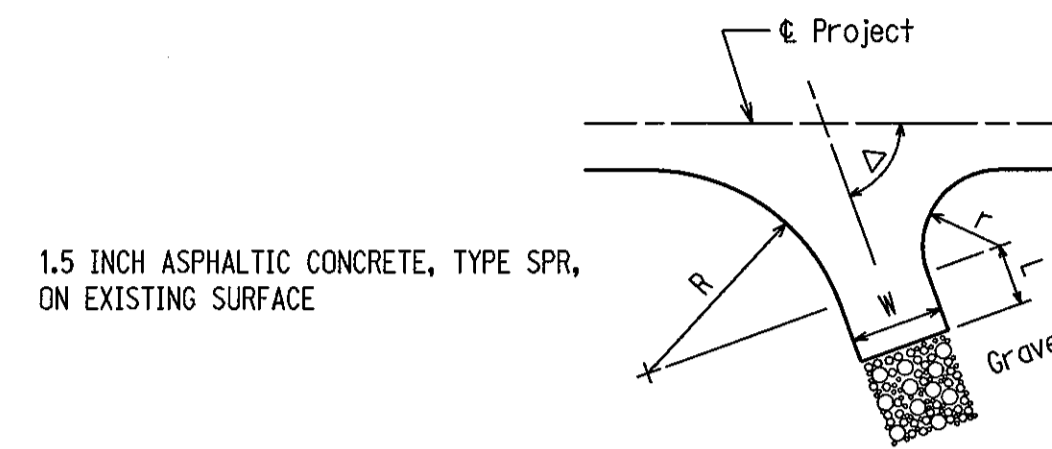
C.N. 51506

BITUMINOUS SURFACING ITEMS GROUP 9

ITEM	QUANTITY	UNITS
BARRICADE, TYPE II	19,800.000	BDAY
BARRICADE, TYPE III	388.000	BDAY
TEMPORARY SIGN DAY	770.000	EACH
SIGN DAY	12,707.000	EACH
OVERLAY BROKEN LINES	868.000	STA
OVERLAY SOLID LINES	1,736.000	STA
FLAGGING	100.000	DAY
FURNISHING AND OPERATING PILOT VEHICLE	45.000	DAY
FIELD OFFICE	1.000	EACH
MOBILIZATION	1.000	LS
GRAVEL SURFACE COURSE	140.000	CY
HYDRATED LIME/WARM MIX ASPHALT FOR STATE MAINTENANCE PATCHING	8,000.000	EACH
HYDRATED LIME/WARM MIX ASPHALT	26,090.000	EACH
ASPHALTIC CONCRETE FOR STATE MAINTENANCE PATCHING, TYPE SPR	8,000.000	TON
ASPHALTIC CONCRETE, TYPE SPR	25,590.000	TON
PLACEMENT OF ASPHALTIC CONCRETE FOR DRIVEWAYS AND INTERSECTIONS	3,098.000	SY
ASPHALTIC CONCRETE FOR PATCHING, TYPE SPR	500.000	TON
PERFORMANCE GRADED BINDER (64-34) FOR STATE MAINTENANCE PATCHING	272.000	TON
PERFORMANCE GRADED BINDER (64-34)	887.060	TON
TACK COAT	35,200.000	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
WATER	150.000	MGAL
EARTH SHOULDER CONSTRUCTION	600.800	STA
COLD MILLING, CLASS 3	299.900	STA
COLD MILLING, CLASS 5	292.000	SY
COLD MILLING, CLASS 3	568.270	STA
TYPE A		
RAP INCENTIVE PAYMENT FOR STATE MAINTENANCE PATCHING	13,600.000	EACH
RAP INCENTIVE PAYMENT	44,353.000	EACH
ASPHALT PAVEMENT SMOOTHNESS TESTING I/D	1.000	LS
SEEDING, TYPE B	8.500	ACRE
MULCH	19.100	TON

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

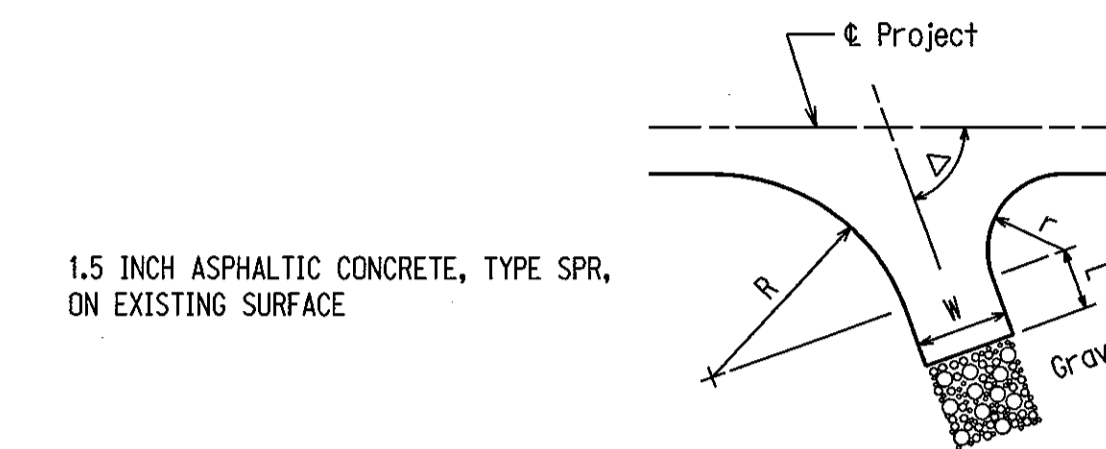
SUMMARY OF QUANTITIES AND LOCATION OF SURFACED DRIVEWAYS



1.5 INCH ASPHALTIC CONCRETE, TYPE SPR, ON EXISTING SURFACE

STATION	SIDE	R FEET	r FEET	W FEET	L FEET	Δ DEGREE	PLACEMENT SQUARE YARDS	ASPHALTIC CONCRETE TONS	GRAVEL CUBIC YARDS
3+10	LT	25	25	16	0	90	74	8	5
21+65	LT	25	25	12	0	90	63	8	5
28+20	RT	25	25	24	0	90	96	8	10
80+85	LT	25	25	20	0	90	85	8	5
133+39	LT	25	25	20	0	90	85	8	5
138+00	LT	25	25	16	0	90	74	8	5
139+10	RT	25	25	16	0	90	74	8	5
200+11	RT	25	25	16	0	90	74	8	5
215+00	LT	25	25	16	0	90	74	8	5
284+70	LT	25	25	16	0	90	74	8	5
299+58	LT	25	25	20	0	90	85	10	5

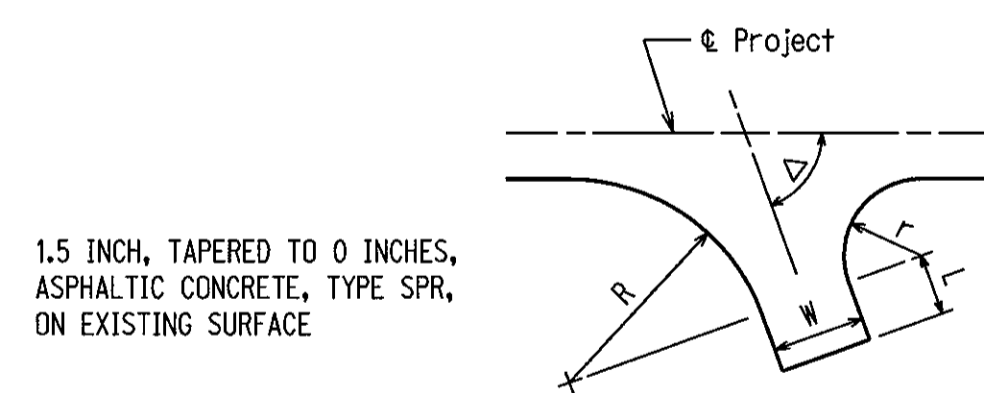
SUMMARY OF QUANTITIES AND LOCATION OF SURFACED INTERSECTIONS



1.5 INCH ASPHALTIC CONCRETE, TYPE SPR, ON EXISTING SURFACE

STATION	SIDE	R FEET	r FEET	W FEET	L FEET	Δ DEGREE	PLACEMENT SQUARE YARDS	ASPHALTIC CONCRETE TONS	GRAVEL CUBIC YARDS
47+44	LT	50	50	24	0	90	292	32	10
47+44	RT	50	50	24	0	90	253	28	10
100+51.38	LT	25	25	20	0	90	85	10	10
100+51.38	RT	50	50	20	0	90	230	26	10
153+51.05	LT	35	35	22	0	90	144	16	10
246+59.6	LT	50	50	24	0	90	253	28	10
246+59.6	RT	50	50	24	0	90	253	28	10
299+57.8	RT	50	50	24	0	90	253	28	10

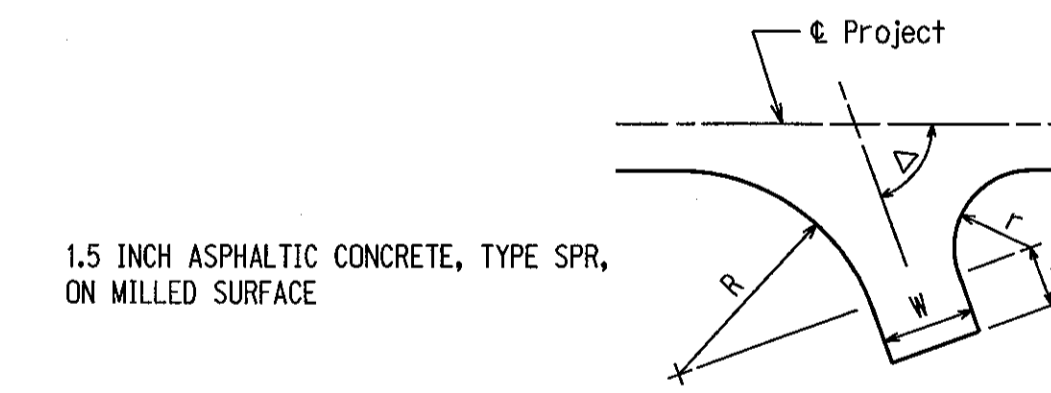
SUMMARY OF QUANTITIES AND LOCATION OF SURFACED DRIVEWAYS



1.5 INCH, TAPERED TO 0 INCHES, ASPHALTIC CONCRETE, TYPE SPR, ON EXISTING SURFACE

STATION	SIDE	R FEET	r FEET	W FEET	L FEET	Δ DEGREE	PLACEMENT SQUARE YARDS	ASPHALTIC CONCRETE TONS
297+00	RT	25	25	40	10	90	185	10

SUMMARY OF QUANTITIES AND LOCATION OF SURFACED INTERSECTIONS



1.5 INCH ASPHALTIC CONCRETE, TYPE SPR, ON MILLED SURFACE

STATION	SIDE	R FEET	r FEET	W FEET	L FEET	Δ DEGREE	PLACEMENT SQUARE YARDS	ASPHALTIC CONCRETE TONS	COLD MILLING CLASS 5 0" TO 1 1/2" SQUARE YARDS
3+10	RT	50	50	24	0	80	292	32	292

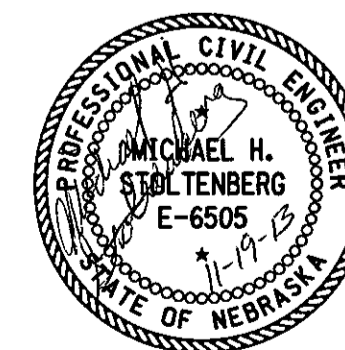
CONSTRUCTION DIVISION

Computer: DRCONSTRUCT10

User: dor17005

Date: 18-NOV-2013 11:15

File: 515060pset11e.dgn
Scale: 1:100



TRAFFIC ENGINEERING DIVISION

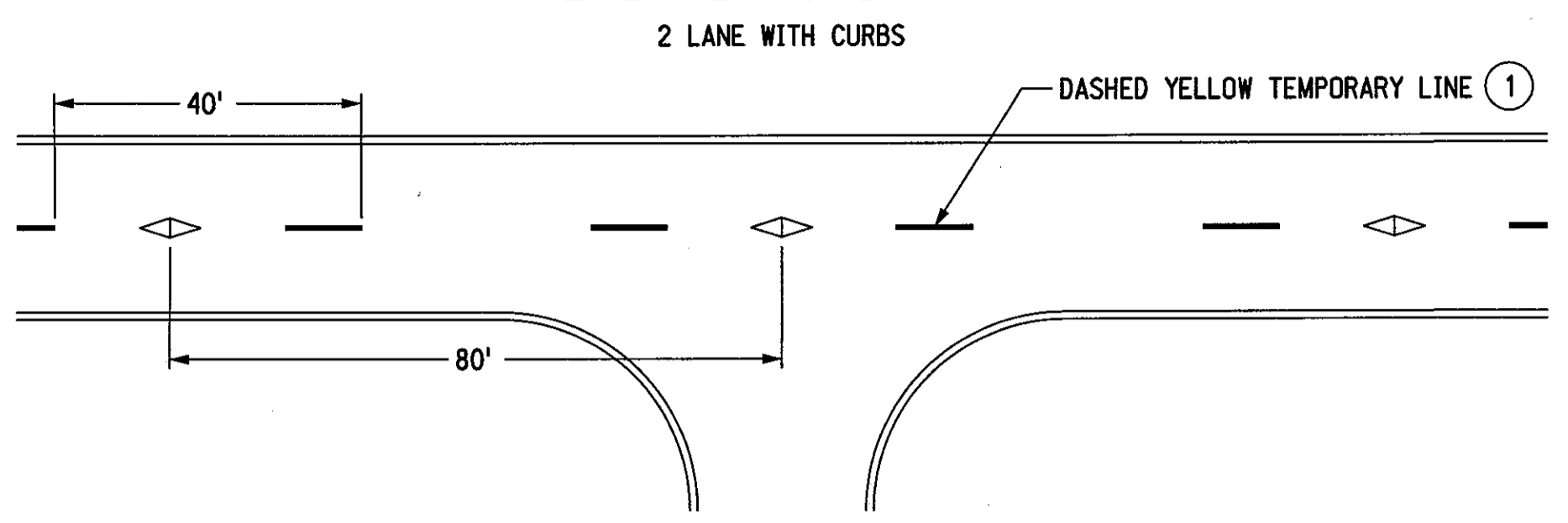
Computer: DRTRAFFIC20

User: dor23056

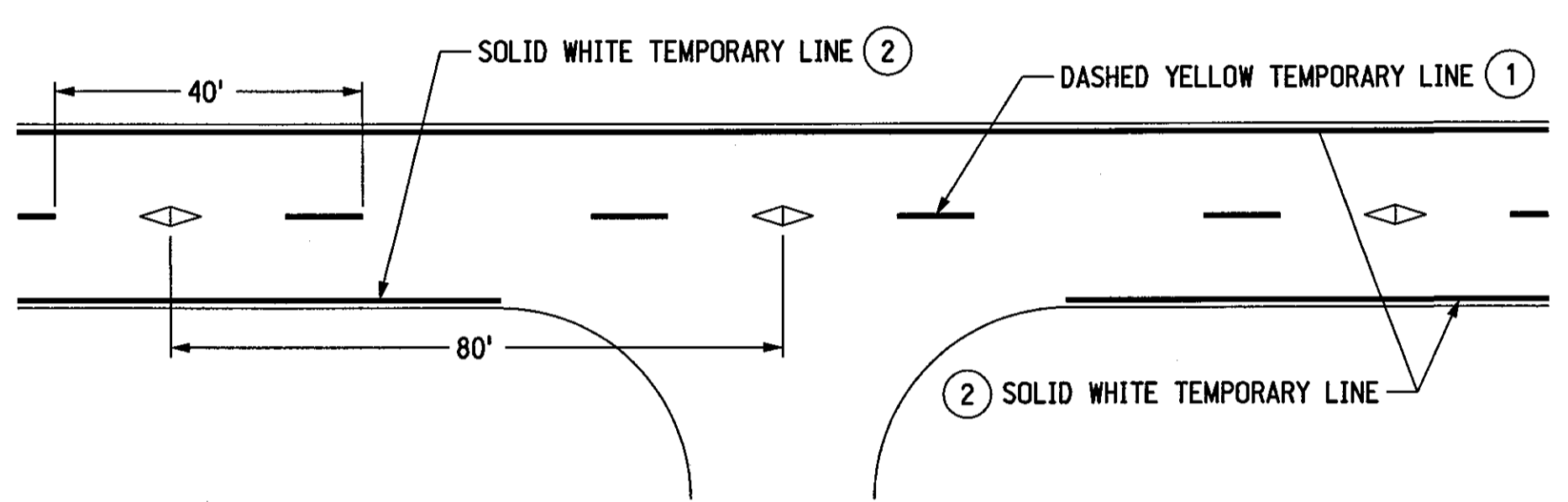
Date: 13-JUN-2013 09:58

File: ptemp-1 1-4.dgn
Scale: 1:100

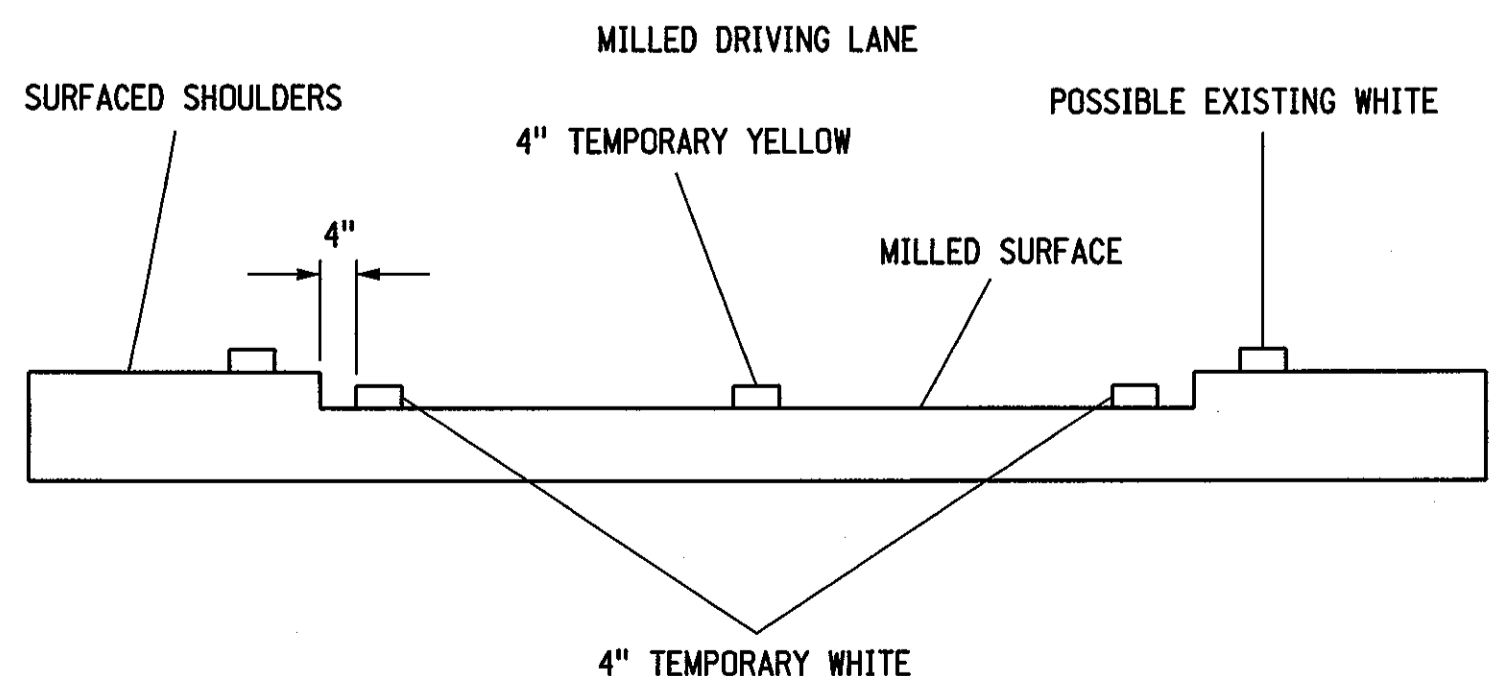
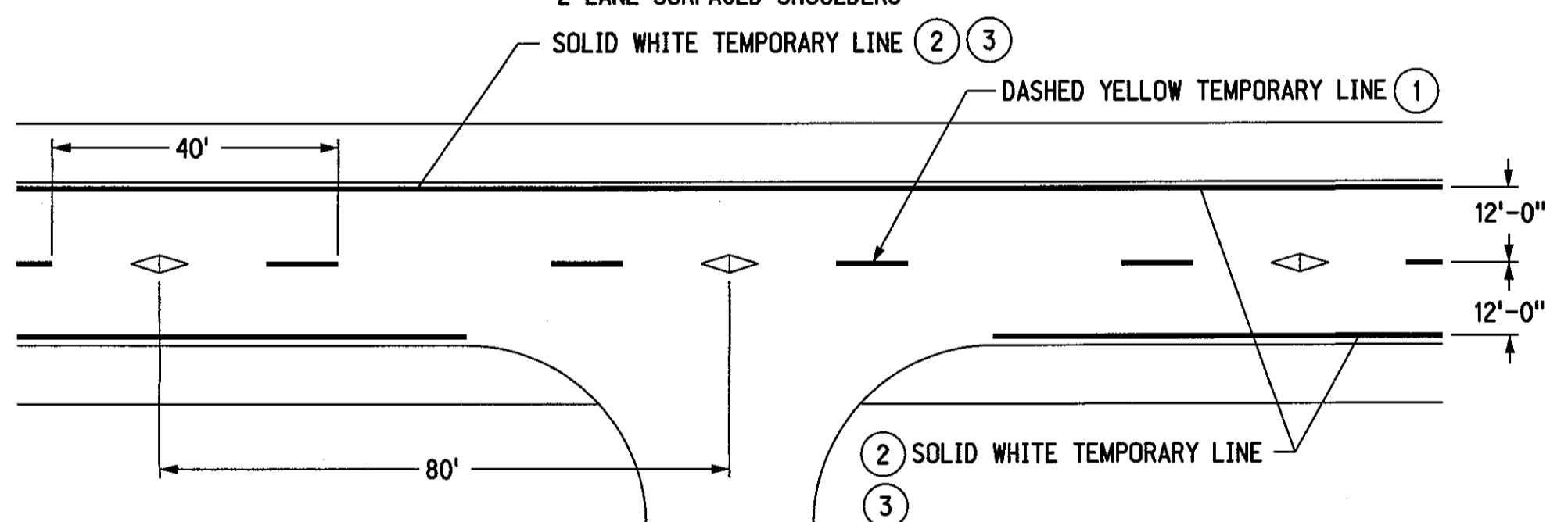
2 LANE ROADWAYS



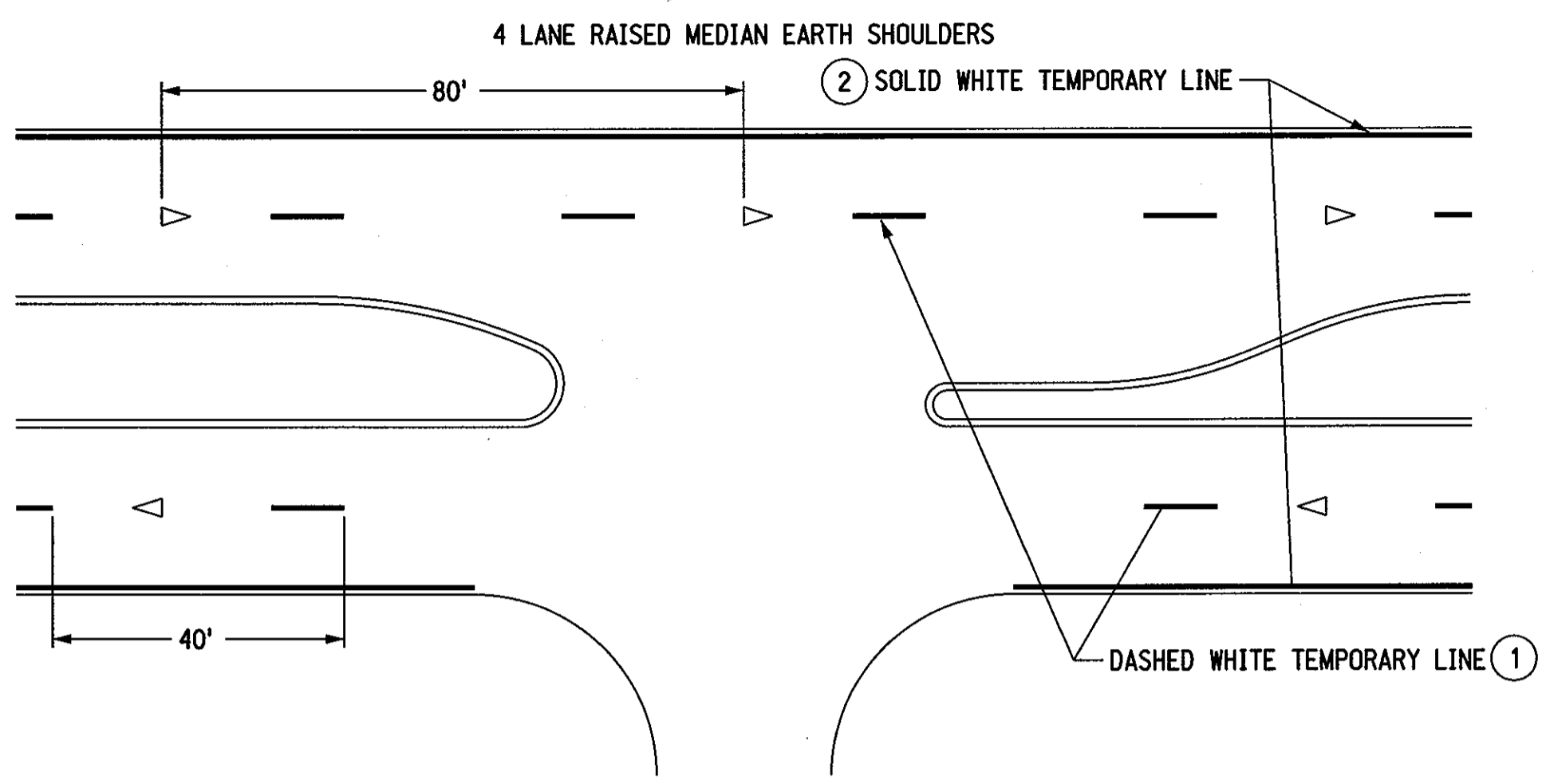
2 LANE EARTH SHOULDERS



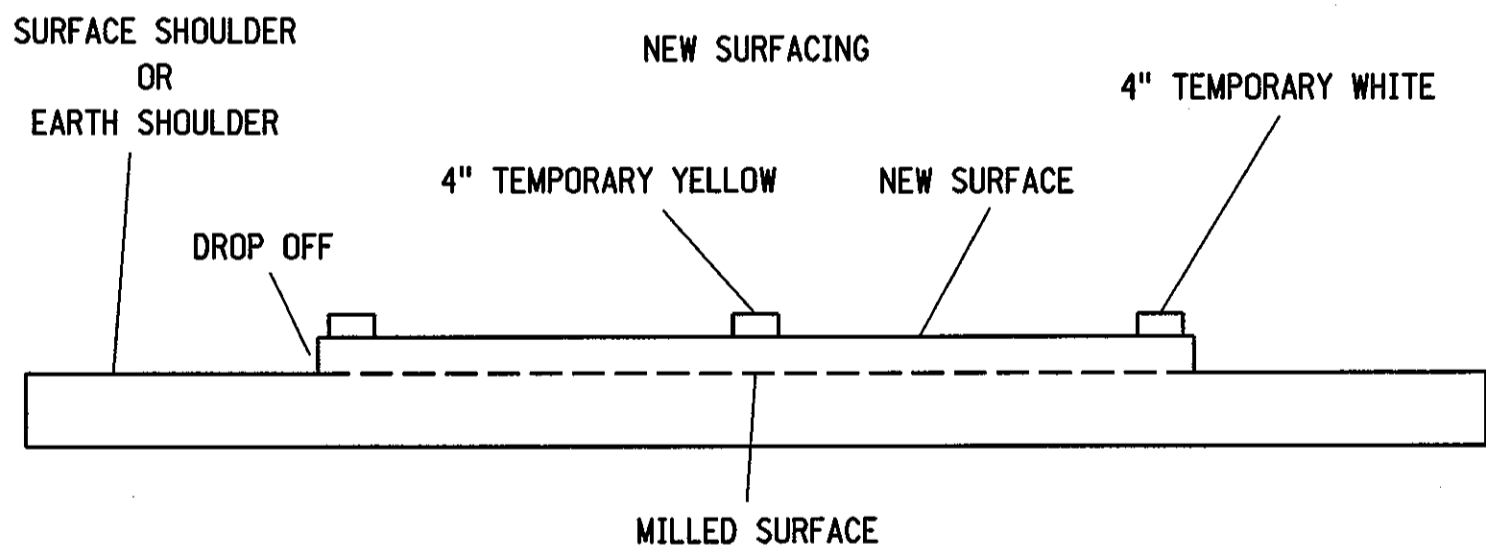
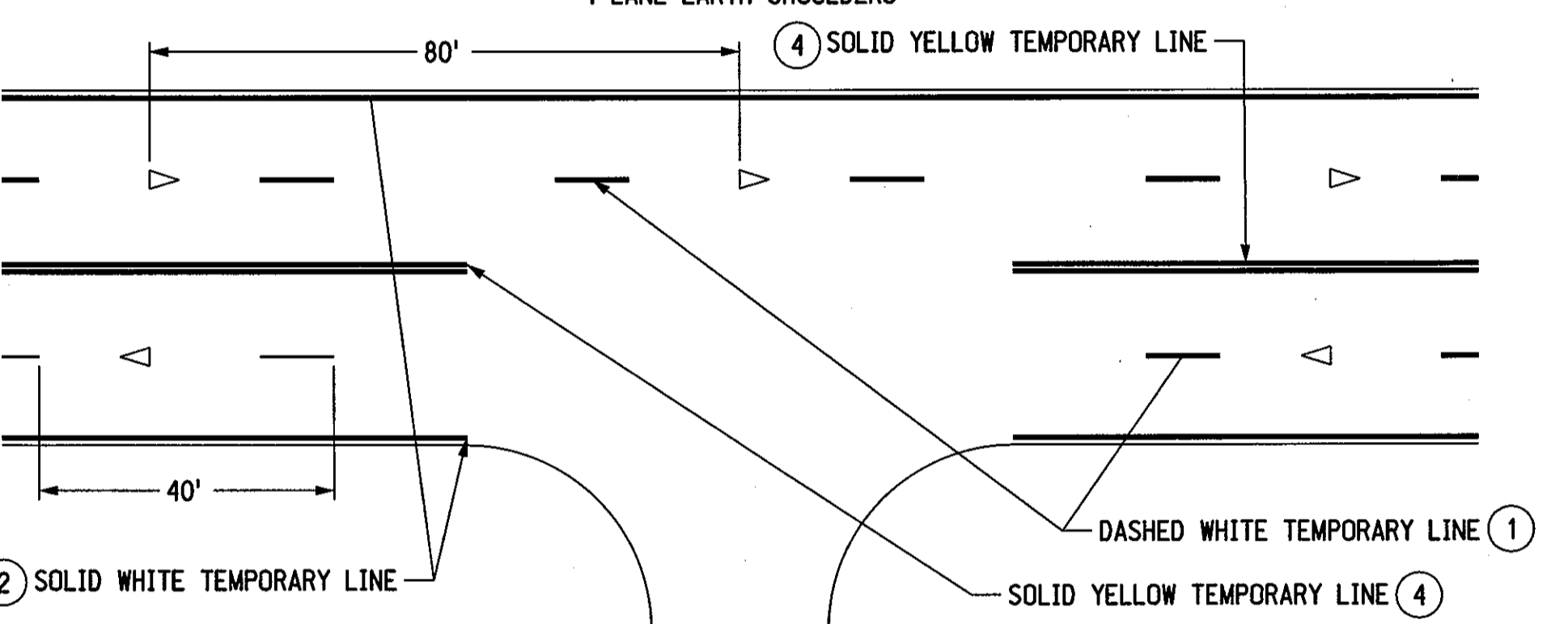
2 LANE SURFACED SHOULDERS



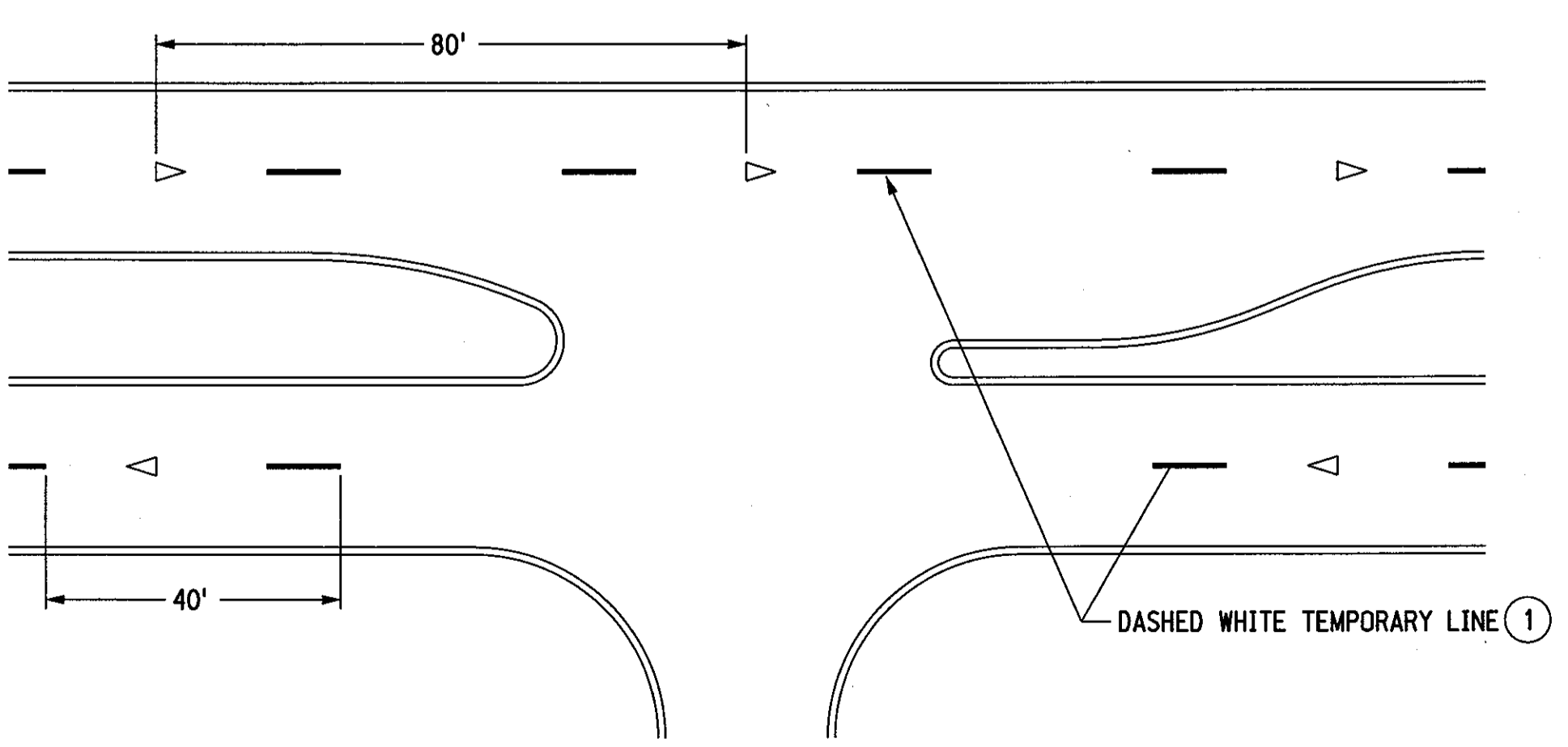
4 LANE ROADWAYS



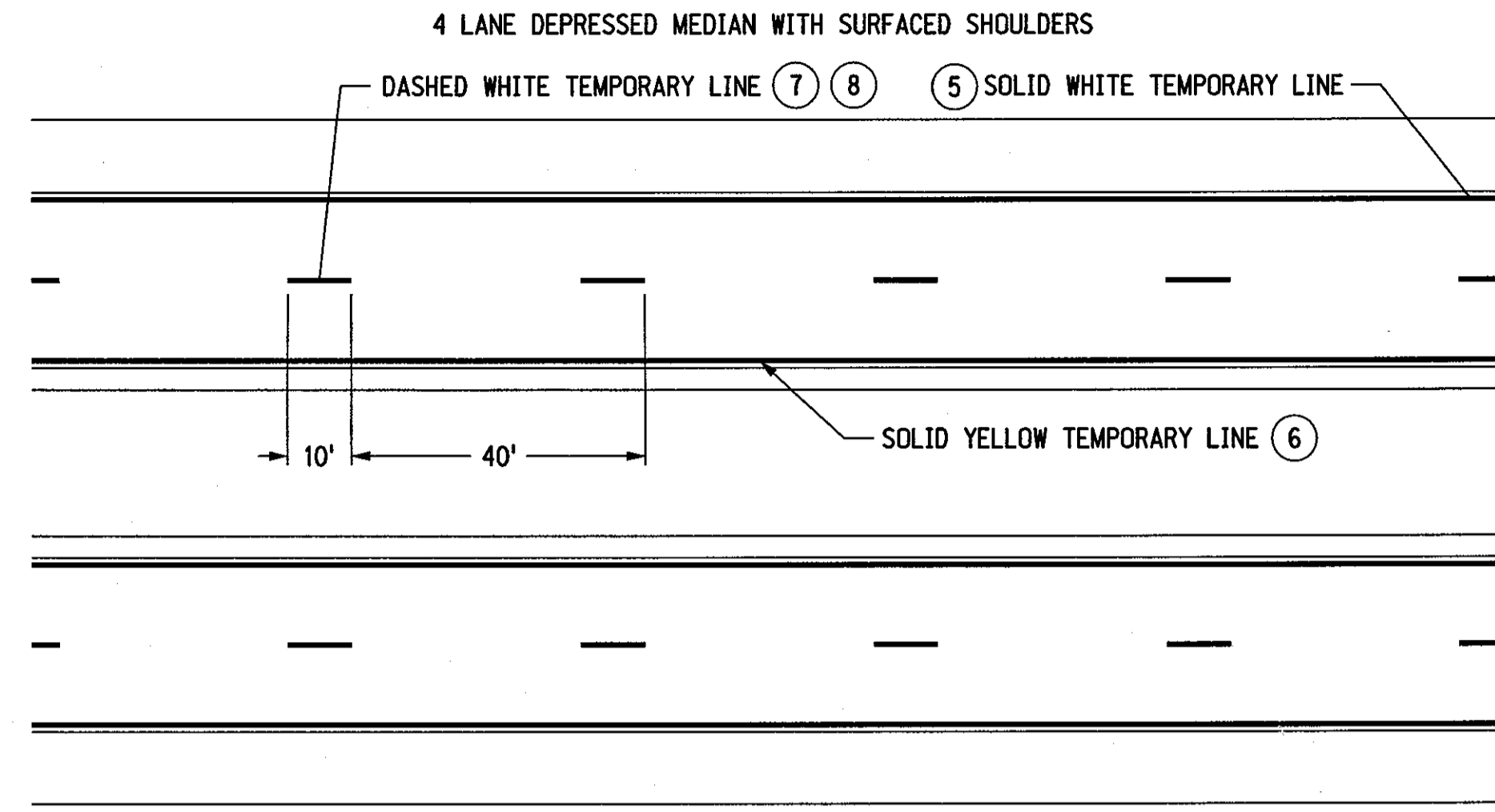
4 LANE EARTH SHOULDERS



4 LANE RAISED MEDIAN WITH CURBS



FREEWAY/RURAL EXPRESSWAY



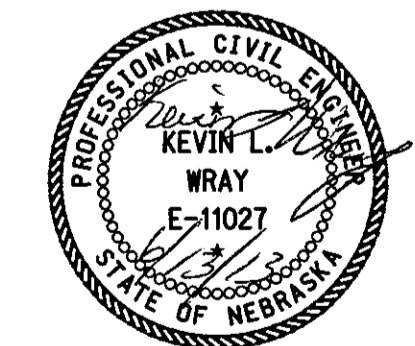
NOTES

- 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	1/1
REVIEWED	MAN	PAVEMENT MARKING PLAN	
DATE DRAWN	8/06	TRAFFIC ENGINEER	DATE