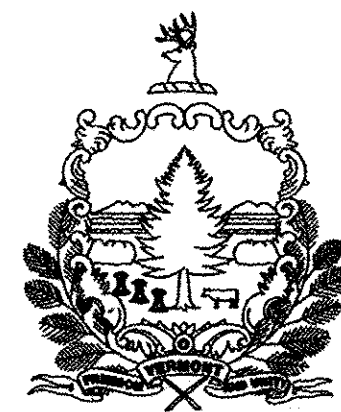


STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
TOWNS OF NEWBURY
COUNTY OF ORANGE
INTERSTATE ROUTE 91 NB & SB

RECORD PLANS

CONTRACTOR: PIKE INDUSTRIES, INC. - BERLIN, VT

RESIDENT ENGINEER: KEVIN MCCLURE

CONSTRUCTION BEGAN: JULY 13, 2010

CONSTRUCTION COMPLETE: DECEMBER 2, 2010

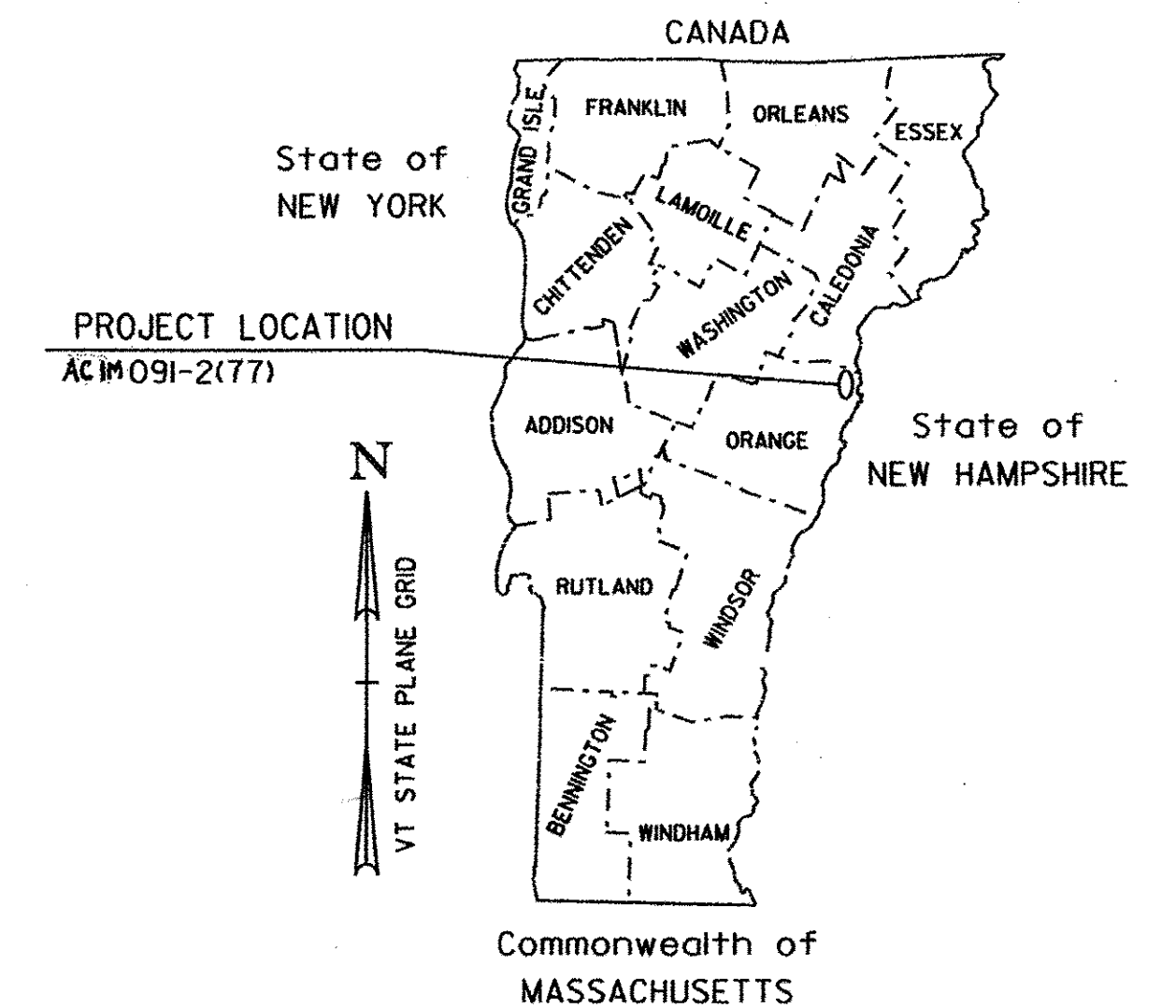
RECORD PLANS BY: KEVIN MCCLURE & C. PIERCE

I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

BY Kevin McClure RESIDENT ENGINEER

DATE 9-1-11

NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found at Central Files in the electronic archives.



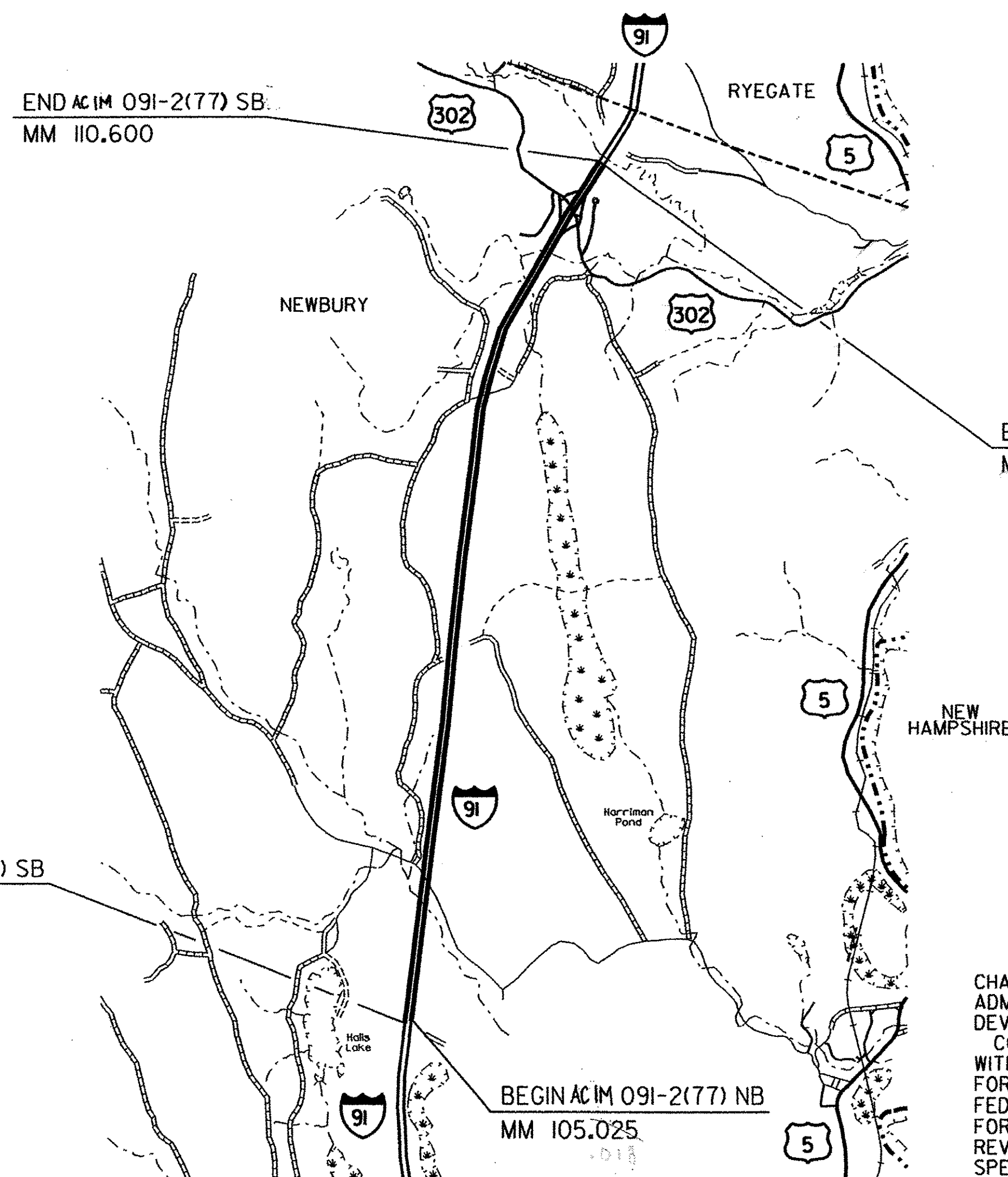
NEWBURY ACIM 091-2(77) SOUTHBOUND:
BEGINNING IN NEWBURY ON I-91 AT MM 104.955 AND EXTENDING NORTHERLY
A DISTANCE OF 29,806 FEET (5.645 MILES) TO MM 110.600

LENGTH OF ROADWAY = 29,806 FT = (5.645 MILES)
LENGTH OF PROJECT = 29,806 FT = (5.645 MILES)

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING,
RESURFACING WITH A LEVELING COURSE AND WEARING COURSE,
NEW PAVEMENT MARKINGS, GUARDRAIL IMPROVEMENTS AND INCIDENTAL ITEMS.

NEWBURY ACIM 091-2(77) NORTHBOUND:
BEGINNING IN NEWBURY ON I-91 AT MM 105.025 AND EXTENDING NORTHERLY
A DISTANCE OF 29,436 FEET (5.575 MILES) TO MM 110.600

LENGTH OF ROADWAY = 29,436 FT = (5.575 MILES)



**BITUMINOUS CONCRETE PAVEMENT
SUPERPAVE MIXTURE DESIGN CRITERIA**

DESIGN LANE / DESIGN LIFE ESAL NB	7,097,000
DESIGN LANE / DESIGN LIFE ESAL SB	8,670,000
DESIGN NUMBER OF GYRATIONS NB	65
DESIGN NUMBER OF GYRATIONS SB	65
PERFORMANCE GRADE ASPHALT BINDER	SEE SECTION 490 GENERAL SPECIAL PROVISIONS

TRAFFIC DATA

SECTION	AADT		DHV		ESALS	
	2009	2019	2009	2019	2009-2019	2009-2029
I-91 NORTHBOUND	2700	3300	440	530	2,545,000	7,097,000
I-91 SOUTHBOUND	2700	3300	370	450	3,129,000	8,670,000

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATOR

APPROVED Mark D. Richter DATE 9-15-09

DIRECTOR OF PROGRAM DEVELOPMENT

APPROVED Rudolf Johnson DATE 9-2-09

PROJECT MANAGER : TED DOMEY

PROJECT NAME : NEWBURY
PROJECT NUMBER : AC 1M 091-2 (77)

SHEET 1 OF 20 SHEETS

CONVENTIONAL SYMBOLS

COUNTY LINE	
TOWN LINE	
LIMITS OF ACCESS	
POINT OF ACCESS	
FENCE LINE	
STONE WALL	
TRAVELED WAY	
GUARD RAIL	
RAILROAD	
SURVEY LINE	
CULVERT	
POWER POLE	
TELEPHONE POLE	
TREES	
CONTROL OF ACCESS	
PROPERTY LINE	
R.O.W. TAKING LINE	
SLOPE RIGHTS	
TOP OF CUT	
TOE OF SLOPE	

SURVEYED BY : N/A
SURVEYED DATE : N/A

DATUM
VERTICAL N/A
HORIZONTAL N/A

INDEX OF SHEETS

INDEX OF SHEETS

1	TITLE SHEET
2	INDEX OF SHEETS
3-4	PROJECT TYPICAL SHEETS
5-7	QUANTITY SHEETS
8	ITEM DETAIL SUMMARY SHEET
9-10	PAVING LAYOUT SHEETS
11-14	INTERCHANGE 17 DETAIL SHEETS
15	PAVEMENT WIDENING DETAIL
16-17	MILLED RUMBLE STRIP DETAIL SHEETS
18	PAVEMENT MARKING DETAIL SHEET
19	TRAFFIC SIGN SUMMARY SHEET
20	TEMPORARY TRAFFIC CONTROL PLAN

STD

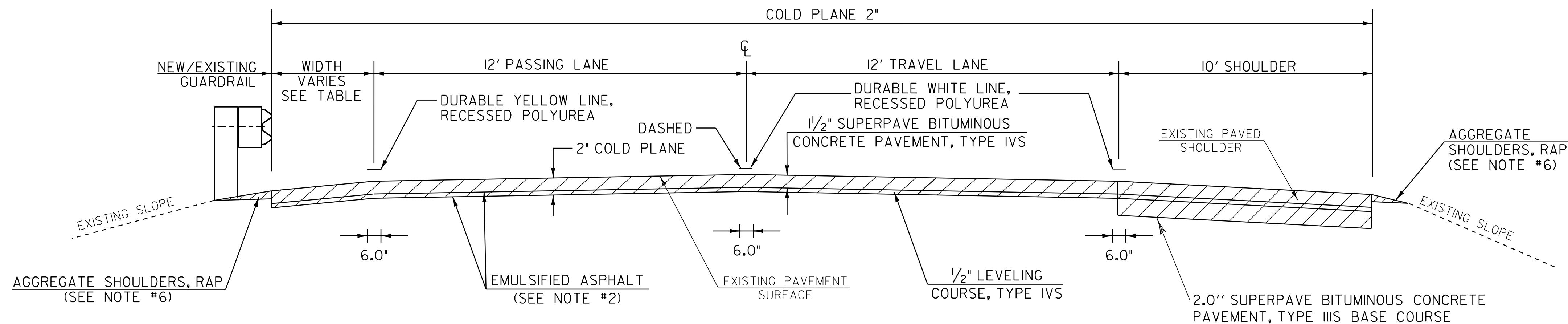
DATE

E-100	1/2/2004
E-100A	1/2/2004
E-101	5/30/2003
E-102	6/30/2003
E-102A	5/1/2004
E-103	3/1/2004
E-105	5/1/2004
E-106	3/1/2004
E-107	6/30/2003
E-107A	6/8/2009
E-108A	6/8/2009
E-110	8/8/1995
E-111	6/15/2004
E-120	9/20/1995
E-143	5/1/2004
E-146	3/11/1997
E-150	8/8/1995
E-191	2/1/1999
E-192	10/12/2000
E-193	8/18/1995
E-197	4/1/2005
E-198	4/1/2005
G-1	1/3/2000
G-ID	1/3/2000
G-19	11/15/2002

INDEX OF SHEETS

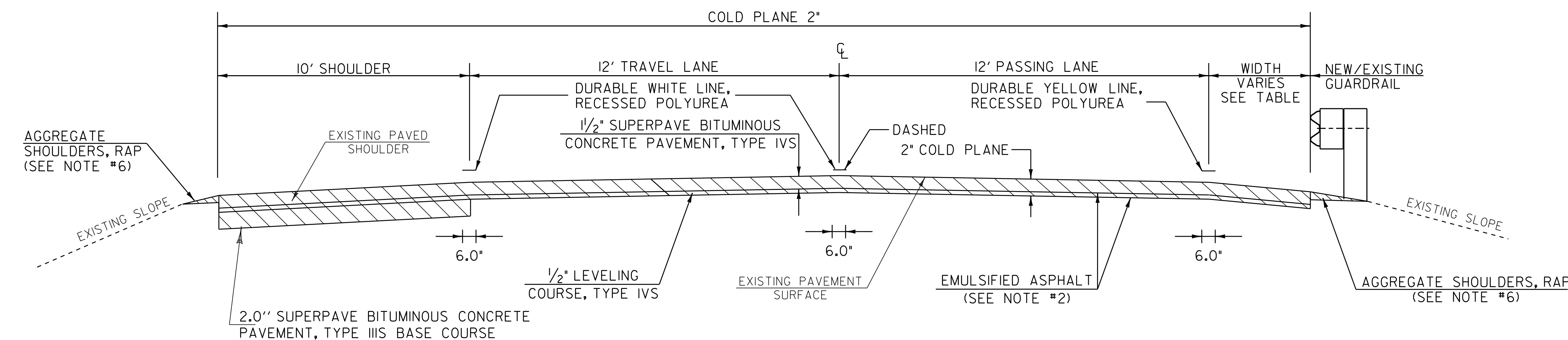
PROJECT NAME: NEWBURY
PROJECT NUMBER: IM 091-2 (77)

FILE NAME: p07al46.dgn	PLOT DATE: 25-OCT-2011 4:21
PROJECT LEADER: PVMT. MGMT.	DRAWN BY: MRS
DESIGNED BY: JLR/LSW	CHECKED BY: PVMT. MGMT.
IPARM FILE NAME: p07al46ts.i	SHEET 2 OF 20



MAINLINE TYPICAL SECTION - NB

LOCATION
 NB M. M. ~~105.025~~ TO M. M. ~~110.600~~
 105.018 110.587



MAINLINE TYPICAL SECTION - SB

LOCATION
 SB M. M. 104.955 TO M. M. 110.600

"BUILT AS DESIGNED"

PROJECT PAVING LIMITS

TOWN	BEGIN M.M.	END M.M.	LEFT SHOULDER	LANE TYPICAL	RIGHT SHOULDER	WEARING DEPTH	LEVELING	NOTES
1-91 NB	105.018							
NEWBURY	M.M. 105.025	M.M. 105.870	4'	12-12	10'	1 1/2" IVS	1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
	M.M. 105.870	M.M. 105.887	4'	12-12	10'	1 1/4" IVS		BRIDGE 64-N--NO WORK REQUIRED
	M.M. 105.887	M.M. 110.600 110.587	4'	12-12	10'	1 1/2" IVS	1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
1-91 SB	M.M. 104.955	M.M. 105.855	10'	12-12	4'	1 1/2" IVS	1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
NEWBURY	M.M. 105.855	M.M. 105.878	10'	12-12	4'	1 1/4" IVS		BRIDGE 64-S--NO WORK REQUIRED
	M.M. 105.878	M.M. 110.600	10'	12-12	4'	1 1/2" IVS	1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
NB OFF RAMP (A)	MM 0.000	MM 0.190	4'	16'	4'	1 1/2" IVS	1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
NB ON RAMP (B)	MM 0.000	MM 0.275	4'	16'	4'	1 1/2" IVS	1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
SB OFF RAMP (C)	MM 0.000	MM 0.254	4'	16'	4'	1 1/2" IVS	1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
SB ON RAMP (D)	MM 0.000	MM 0.322	4'	16'	4'	1 1/2" IVS	1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"

SEEDING FORMULA - RURAL AREAS

% WT.	LBS./A.	NAME	PUR %	GERM %
37.5	22.5	CREEPING RED FESCUE	98	85
37.5	22.5	TALL FESCUE	95	90
5.0	3.0	RED TOP	95	90
15.0	9.0	BIRDSFOOT TREFOIL	98	85
5.0	3.0	ANNUAL RYEGRASS	95	85
100.0	60.0			

SEEDING NOTES

- SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
- SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE RESIDENT ENGINEER.
- FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA)
- AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE RESIDENT ENGINEER.
- TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER.

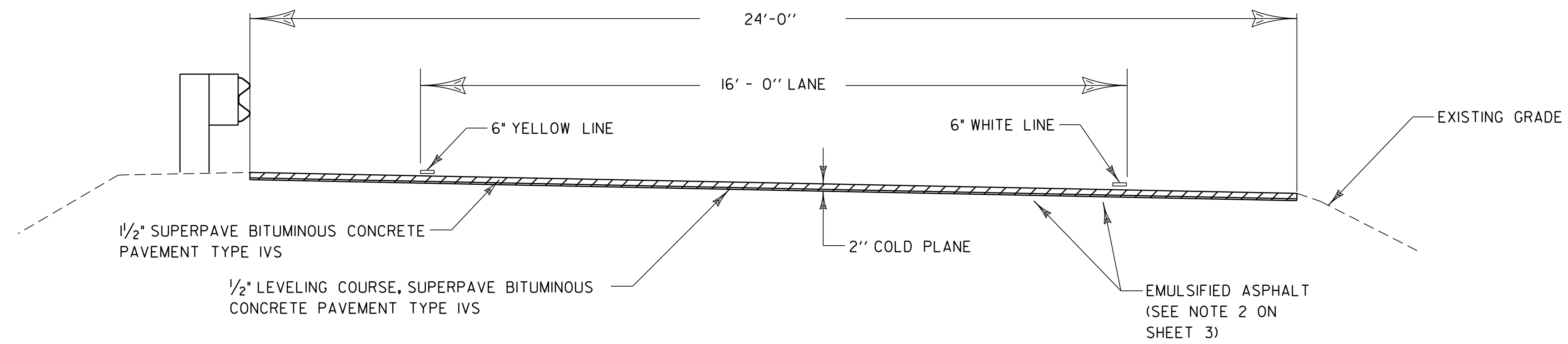
GENERAL NOTES

- COLD PLANE MAINLINE AND RAMPS FULL WIDTH 2", LEVEL FULL WIDTH WITH TYPE IVS, PAVE MAINLINE FULL WIDTH WITH 1 1/2" TYPE IVS. EXCAVATE 10' SHOULDERS AN ADDITIONAL 2", PAVE WITH 2" TYPE IIIS. PAVE U-TURNS 1 1/2" WITH TYPE IVS. PAVING SHALL BE COMPLETED AS SHOWN ON THE TYPICALS, UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER.
- EMULSIFIED ASPHALT SHALL BE APPLIED ON ALL EXISTING PAVEMENT SURFACES, COLD PLANED SURFACES AND BETWEEN ALL COURSES OF PAVEMENT AT THE RATE OF 0.025 GAL/SY OR AS DIRECTED BY THE RESIDENT ENGINEER.
- SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = 1/4" ± (TOTAL THICKNESS EXCLUDING LEVELING COURSE).
- COLD PLANING SHALL BE COMPLETED ACCORDING TO THE TYPICAL SECTION OR AS NOTED OTHERWISE ON THE PLANS. A FULL DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE PROJECT BEGIN/END AND AT ALL RAMP APPROACHES AS NOTED ON THE PROJECT PLANS OR AS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. ALL BUTT JOINTS SHALL BE SAW CUT, INCIDENTAL TO ITEM 210.10, COLD PLANING, BITUMINOUS PAVEMENT.
- ALL EDGES OF PAVEMENT SHALL BE BACKED UP FULL HEIGHT WITH COLD PLANE GRINDINGS AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER ITEM 402.13, AGGREGATE SHOULDERS, RAP.
- COMPACTION, GRADING AND CLEAN UP ITEM 402.13, AGGREGATE SHOULDERS, RAP AND ITEM 651.35, TOPSOIL IS TO BE INCLUDED IN THE CONTRACT UNIT PRICE OF EACH ITEM.
- AREAS ADJACENT TO THE SHOULDER, WHERE GUARDRAIL IS BEING RETAINED, THAT HAVE BUILT UP EXCESS MATERIAL ARE TO BE GRADED TO ALLOW THE SHOULDER TO DRAIN. PAYMENT IS TO BE INCLUDED UNDER ITEM 203.40, SHOULDER BERM REMOVAL.
- AN ESTIMATED QUANTITY OF ITEM 619.17 YIELDING MARKER POSTS HAS BEEN INCLUDED TO DELINEATE PIPE INLETS, PIPE OUTLETS AND DROP INLETS LOCATED OUTSIDE OF THE PAVEMENT SURFACE, AS DIRECTED BY THE RESIDENT ENGINEER.
- TEMPORARY EROSION MATTING SHALL BE USED TO COVER ALL AREAS OF DISTURBED EARTH.
- STEEL BEAM GUARDRAIL WITH STEEL POSTS TO BE USED ON THIS PROJECT. 3' OF BACKING IS REQUIRED BEHIND THE FACE OF GUARDRAIL WITH 6' POSTS. IF THIS CANNOT BE ACHIEVED, THEN 8' POSTS SHALL BE USED.

PROJECT TYPICAL SHEET 1

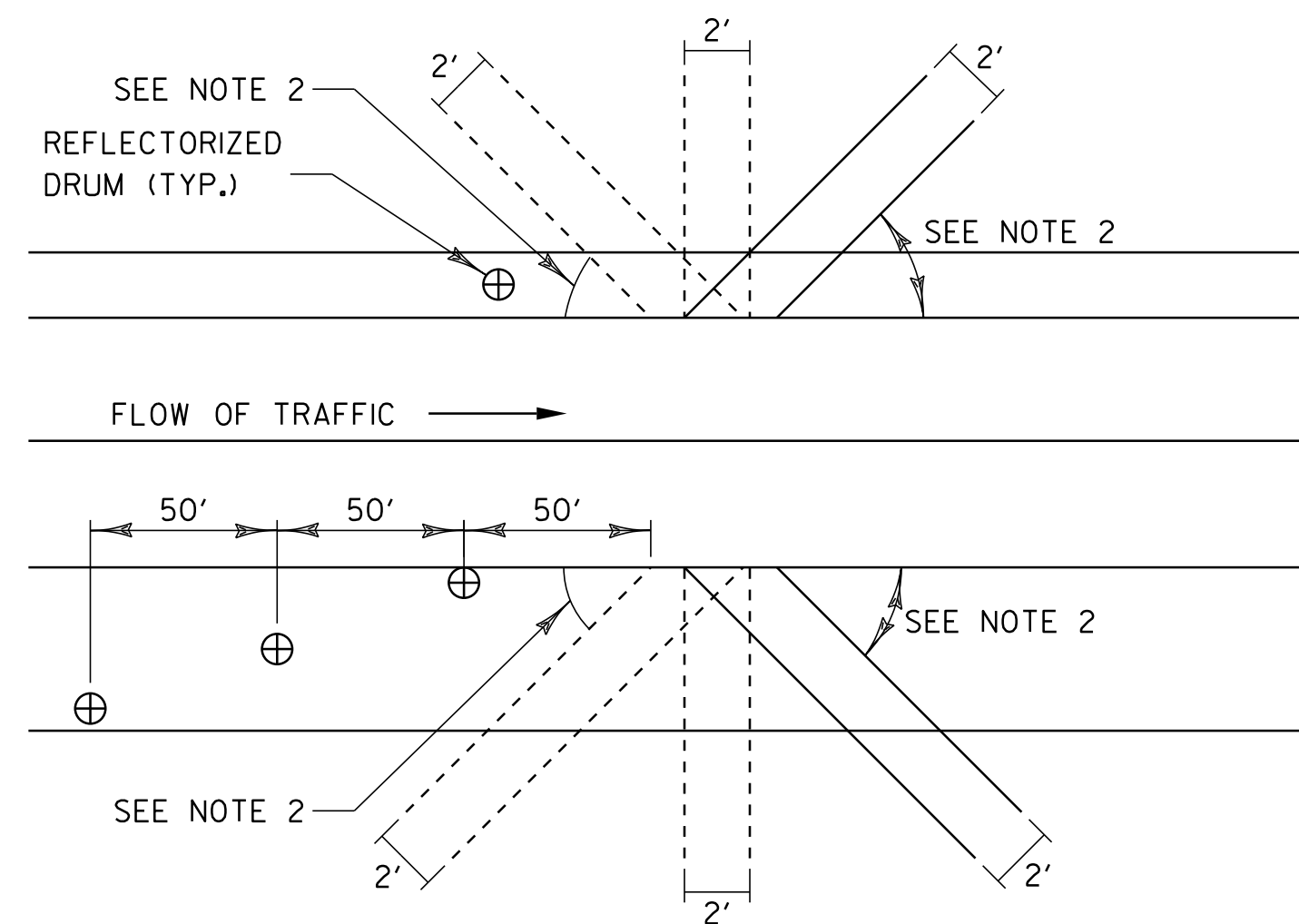
PROJECT NAME: NEWBURY	PLOT DATE: 25-OCT-2011 4:21
PROJECT NUMBER: IM 091-2 (77)	DRAWN BY: MRS
FILE NAME: p07al46.dgn	CHECKED BY: PVMT, MGMT.
PROJECT LEADER: PVMT, MGMT.	SHEET 3 OF 20
DESIGNED BY: JLR/LSW	
IPARM FILE NAME: p07al46p1.i	

NOT TO SCALE



RAMP TYPICAL SECTION

"BUILT AS DESIGNED"



BLEEDER DETAIL

BLEEDER DETAIL NOTES:

1. BLEEDERS ARE TO BE CUT WHILE COLD PLANING, AT LOCATIONS SPECIFIED BY THE RESIDENT ENGINEER.
2. ANGLE BLEEDERS TO BEST ACCEPT WATER FLOW.
3. CUT ALL BLEEDERS TO THE DEPTH OF COLD PLANING AND GRADE TO DRAIN. PAYMENT INCIDENTAL TO ITEM 210.10.
4. BLEEDERS ARE TO BE FILLED DURING PAVING WITH ITEM 490.30 OR AS DESIGNATED BY THE RESIDENT ENGINEER.
5. REFLECTORIZED DRUMS MUST BE PLACED AS SHOWN TO WARN MOTORISTS OF THE GAP IN THE SHOULDER.
6. BLEEDERS ARE NOT REQUIRED IF THE COLD PLANED AREAS ARE PAVED BACK THE SAME DAY.

NOT TO SCALE

PROJECT TYPICAL SHEET 2

PROJECT NAME: NEWBURY
 PROJECT NUMBER: IM 091-2 (77)

FILE NAME: p07a146.dgn	PLOT DATE: 25-OCT-2011 4:21
PROJECT LEADER: PVMT. MGMT.	DRAWN BY: MRS
DESIGNED BY: JLR/LSW	CHECKED BY: PVMT. MGMT.
IPARM FILE NAME: p07a146ty2.i	SHEET 4 OF 20

QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES							TOTALS					DETAILED SUMMARY OF QUANTITIES			DETAILED SUMMARY OF QUANTITIES		
ROADWAY		FULL C.E. ITEMS			GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITY	UNIT	ITEMS	QUANTITY	UNIT	ITEMS	
1					1		EA	ANCHOR FOR STEEL BEAM RAIL	621.60	-							
200					200		EACH	REPLACE GUARDRAIL POST ASSEMBLY	621.76	EST							
400					400		EACH	REPLACE GUARDRAIL BEAM UNIT	621.77	EST							
350					350		LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80								
2350					2350		HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST							
4700					4700		HR	FLAGGERS	630.15	EST							
		1			1		LS	FIELD OFFICE, ENGINEERS	631.10	-							
		1			1		LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-							
		1			1		LU	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.25	-							
1					1		LS	MOBILIZATION/DEMobilIZATION	635.11	-							
1					1		LS	TRAFFIC CONTROL	641.10	-							
4					4		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-							
80,000					80,000		LF	DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA	646.426	598							
65,000					65,000		LF	DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA	646.436	2331							
1,600					1,600		LF	DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA	646.466	50							
100					100		LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482	16							
48					48		EACH	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	-							
160,000					160,000		LF	TEMPORARY 6 INCH WHITE LINE, PAINT	646.622	1198							
126,000					126,000		LF	TEMPORARY 6 INCH YELLOW LINE, PAINT	646.632	662							
400					400		LF	TEMPORARY 12 INCH WHITE LINE, PAINT	646.662	36							
200					200		LF	TEMPORARY 24 INCH STOP BAR, PAINT	646.682	6							
96					96		EACH	TEMPORARY LETTER OR SYMBOL, PAINT	646.692	-							
3,500					3,500		EACH	LINE STRIPING TARGETS	646.76	538							
50					50		SY	GEOTEXTILE UNDER STONE FILL	649.31	2.8							
35					35		LB	SEED	651.15	EST							
255					255		LB	FERTILIZER	651.18	EST							
1					1		TON	AGRICULTURAL LIMESTONE	651.20	EST							
25					25		CY	TOPSOIL	651.35	EST							
100					100		SY	TEMPORARY EROSION MATTING	653.20	EST							
150					150		SF	TRAFFIC SIGNS, TYPE A	675.20	4.99							
120					120		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	-							

PROJECT NAME: NEWBURY	
PROJECT NUMBER: IM 09I-2 (77)	
FILE NAME: p07a146.dgn	PLOT DATE: 25-OCT-2011 4:21
PROJECT LEADER: PVMT. MGMT.	DRAWN BY: MRS
DESIGNED BY: JLR/LSW	CHECKED BY: PVMT. MGMT.
IPARM FILE NAME: p07a146qsl.i	SHEET 6 OF 20

LOCATION			DROP INLETS				GUARDRAIL				MISC.			DELINEATORS				REMARKS
MILE MARKER	MILE MARKER	POS.	301.35	604.40	604.412	621.20	621.60	621.80	613.10	676.10								
			SUBBASE DENSE GRADED CR. STONE CY	CHANGE ELEV. D. I.	REHAB DI, CB OR MH CLASS I	STEEL BEAM G. R. GALV. LF	ANCHOR FOR G. R.	REMOVE & DISP. G. R.	STONE FILL TYPE I	TYPE I (WITH PLAQUE)	TYPE I (W/O PLAQUE)	TYPE II	TYPE III					
			EA	EA		EA	EA	LF	CY	EA	EA	EA	EA					
105.025	110.600	NB		10								50	25	25	50	FOR LOCATIONS SEE LAYOUT SHEETS. ESTIMATED QUANTITY TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER		
104.955	110.600	SB		17	1											FOR LOCATIONS SEE LAYOUT SHEETS. ESTIMATED QUANTITY TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER		
109.283		SB							5							SLOPE EROSION REPAIR		
109.846		SB							5							SLOPE EROSION REPAIR		
109.874		NB							5							SLOPE EROSION REPAIR		
110.000	110.065	NB	110.6				352		1	350						CONNECT NEW RAIL TO EXISTING RAIL @ MM 110.000		
SUBTOTAL THIS SHEET			110.6	27	1		352		1	350	15	50	25	25	50	ITEM DETAIL SUMMARY SHEET		
ROUNDING			39.4	-	-		-		-	-	5	-	-	-	-		PROJECT NAME: NEWBURY PROJECT NUMBER: IM 091-2 (77)	
PROJECT TOTALS			150.0	27	1		352		1	350	20	50	25	25	50		FILE NAME: p07a146.dgn PROJECT LEADER: PVMT. MGMT. DESIGNED BY: JLR/LSW IPARM FILE NAME: p07a1461d01.i	

ITEM DETAIL SUMMARY SHEET	PROJECT NAME: NEWBURY	PLOT DATE: 25-OCT-2011 4:21
	PROJECT NUMBER: IM 091-2 (77)	
	FILE NAME: p07a146.dgn PROJECT LEADER: PVMT. MGMT. DESIGNED BY: JLR/LSW IPARM FILE NAME: p07a1461d01.i	DRAWN BY: MRS CHECKED BY: PVMT. MGMT. SHEET 8 OF 20

TEMPORARY 6" WHITE LINE, PAINT
 DURABLE 6" WHITE LINE, RECESSED POLYUREA

M.M. ~~+05.025~~ TO M.M. ~~+10.600~~ SOLID RT
 M.M. ~~+05.025~~ TO M.M. ~~+10.600~~ DASHED CL
 105.018 110.587

TEMPORARY 6" YELLOW LINE, PAINT
 DURABLE 6" YELLOW LINE, RECESSED POLYUREA

M.M. ~~+05.025~~ TO M.M. ~~+10.600~~ SOLID LT
 105.018 110.587

~~CHANGING ELEV. DI, CB, MH~~

~~MM 105.226 RT
 MM 105.594 RT
 MM 105.572 RT
 MM 105.782 LT
 MM 105.869 RT
 MM 105.877 LT
 MM 106.893 LT
 MM 106.931 LT
 MM 110.583 RT
 MM 110.662 RT~~

~~REHAB. DI, CB, MH~~

~~MM 105.422 RT~~

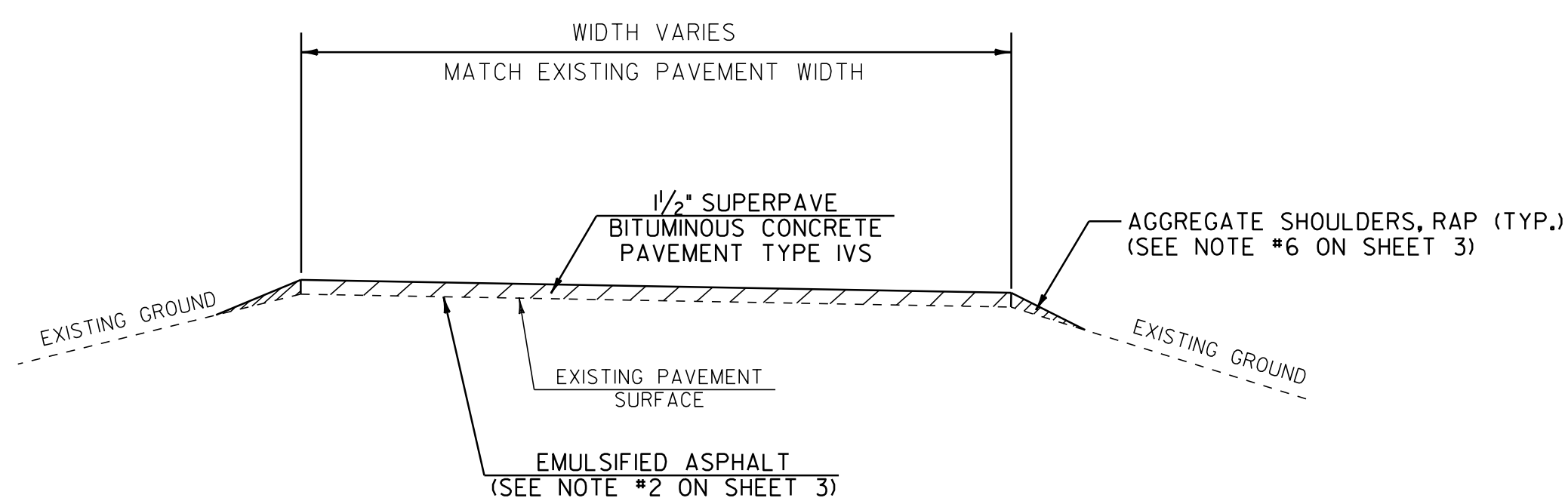
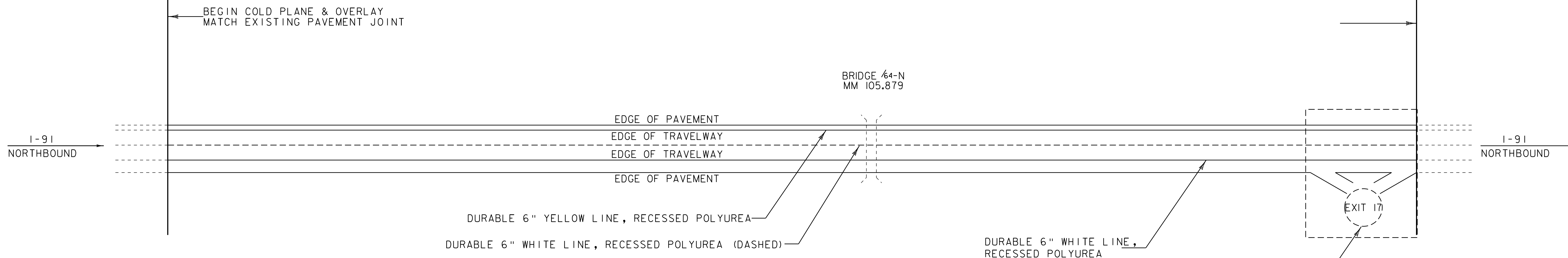
~~STONE FILL, TYPE I~~

~~MM 106.874 LT~~

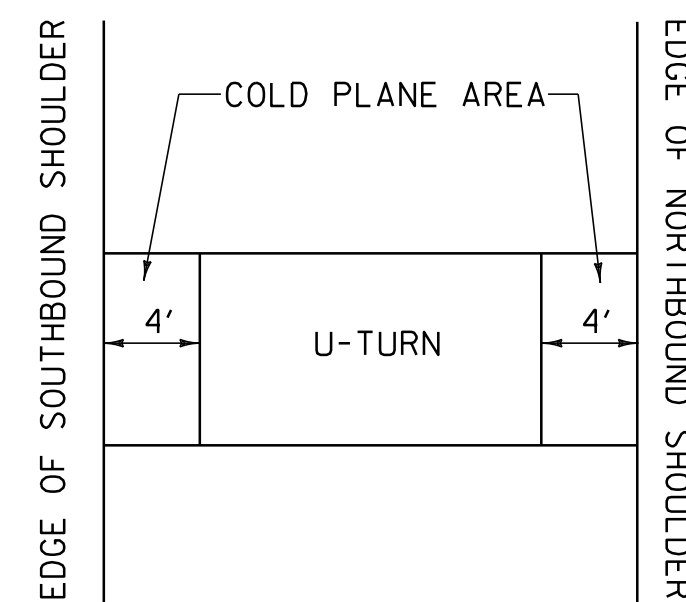
EDGE OF SOUTHBOUND SHOULDER	U-TURN	EDGE OF NORTHBOUND SHOULDER
		MM 107.510
		MM 110.020

INTERSTATE ROUTE 91 NB
MM ~~105.025~~ 105.018
BEGIN WORK
IM 091-2(77)

INTERSTATE ROUTE 91 NB
MM ~~110.600~~ 110.587
END PROJECT
IM 091-2(77)



LOCATION
 MM 105.422
 MM 107.510
 MM 110.020



U-TURN COLD PLANE KEY-IN DETAIL

SEE PROJECT PAVING LIMITS TABLE ON SHEET 3 FOR ROADWAY DIMENSIONS.

PAVING LAYOUT 1

PROJECT NAME: NEWBURY	PLOT DATE: 25-OCT-2011 4:21
PROJECT NUMBER: IM 091-2 (77)	DRAWN BY: TBG
FILE NAME: p07a146.dgn	CHECKED BY:
PROJECT LEADER: PTS	SHEET 9 OF 20
DESIGNED BY: JLR/LSW	
IPARM FILE NAME: p07a146p11.i	

NOT TO SCALE

TEMPORARY 6" WHITE LINE, PAINT
 DURABLE 6" WHITE LINE, RECESSED POLYUREA

MM 104.955 TO MM 110.600 SOLID LT
 MM 104.955 TO MM 110.600 DASHED CL

TEMPORARY 6" YELLOW LINE, PAINT
 DURABLE 6" YELLOW LINE, RECESSED POLYUREA

MM 104.955 TO MM 110.600 SOLID RT

REHAB. DI, CB, MH

~~MM 110.021 LT~~
 MM 105.825 LT
 MM 105.862 LT
 MM 110.021 LT

CHANGING ELEV. DI, CB, MH

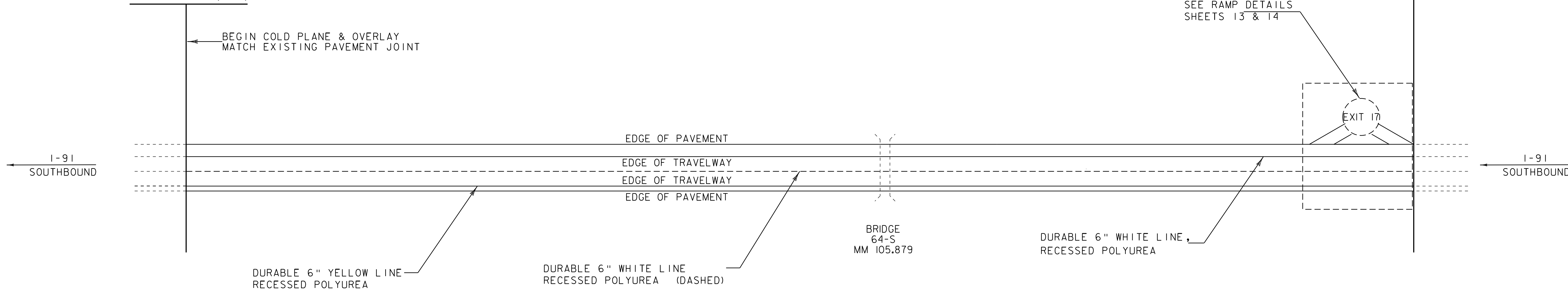
~~MM 105.812 LT~~
~~MM 105.850 LT~~
~~MM 105.888 LT~~
~~MM 105.947 LT~~
~~MM 106.530 LT~~
~~MM 106.581 LT~~
~~MM 106.870 LT~~
~~MM 106.907 RT~~
~~MM 106.907 LT~~
~~MM 106.973 LT~~
~~MM 109.217 LT~~
~~MM 109.260 RT~~
~~MM 109.830 LT~~
~~MM 109.974 LT~~
~~MM 110.594 LT~~
~~MM 110.674 LT~~
~~MM 110.697 LT~~

~~STONE FILL, TYPE 1~~

~~MM 109.283 RT (4' SHLRD.)~~
~~MM 109.846 LT (10' SHLRD.)~~

INTERSTATE ROUTE 91 SB
MM 104.955
BEGIN PROJECT
IM 091-2(77)

INTERSTATE ROUTE I-91 SB
MM 110.600
END PROJECT
IM 091-2(77)



SEE RAMP DETAILS
 SHEETS 13 & 14

EXIT 17

BRIDGE
 64-S
 MM 105.879

DURABLE 6" WHITE LINE,
 RECESSED POLYUREA

DURABLE 6" YELLOW LINE
 RECESSED POLYUREA

DURABLE 6" WHITE LINE
 RECESSED POLYUREA (DASHED)

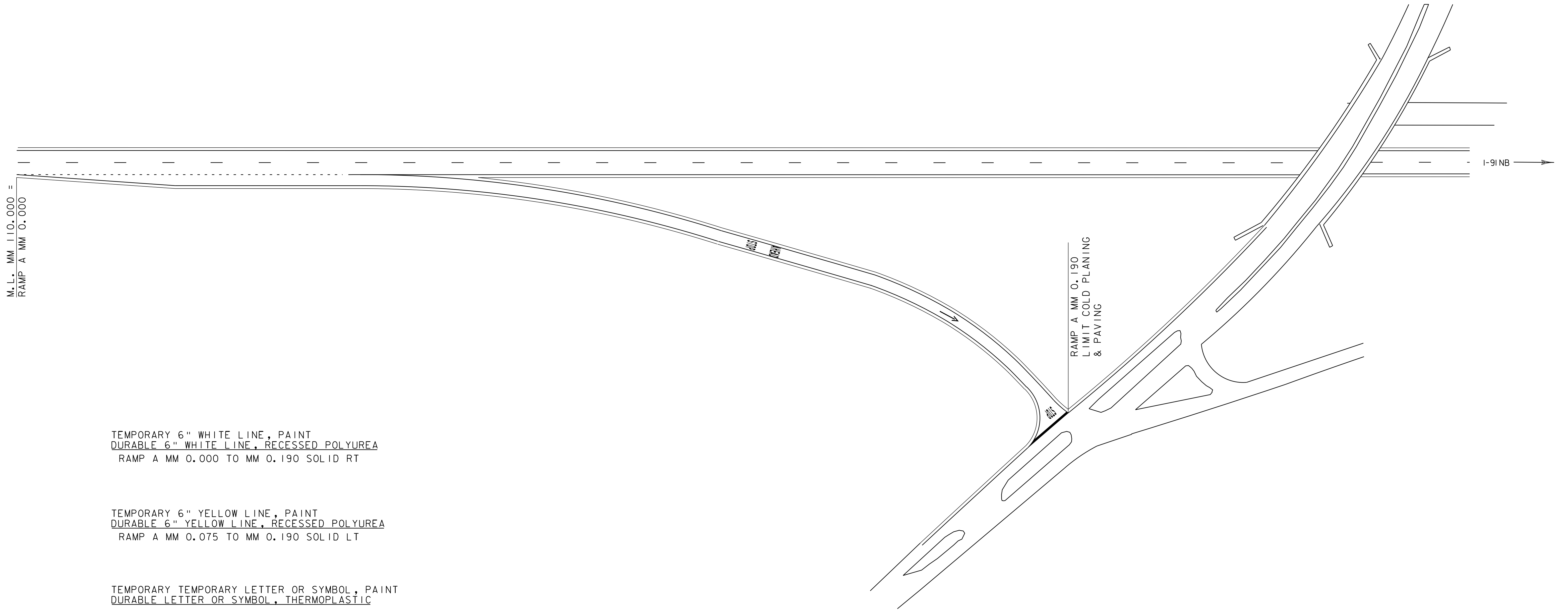
SEE PROJECT PAVING LIMITS TABLE ON
 SHEET 3 FOR ROADWAY DIMENSIONS.

PAVING LAYOUT 2

PROJECT NAME: NEWBURY
 PROJECT NUMBER: IM 091-2 (77)

FILE NAME: p07a146.dgn	PLOT DATE: 25-OCT-2011 4:21
PROJECT LEADER: T. DOMEY	DRAWN BY:
DESIGNED BY: JLR/LSW	CHECKED BY:
IPARM FILE NAME: p07a146pl2.i	SHEET 10 OF 20

NOT TO SCALE



TEMPORARY 6" WHITE LINE, PAINT
 DURABLE 6" WHITE LINE, RECESSED POLYUREA
 RAMP A MM 0.000 TO MM 0.190 SOLID RT

TEMPORARY 6" YELLOW LINE, PAINT
 DURABLE 6" YELLOW LINE, RECESSED POLYUREA
 RAMP A MM 0.075 TO MM 0.190 SOLID LT

TEMPORARY TEMPORARY LETTER OR SYMBOL, PAINT
 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 RAMP A MM 0.090--STOP AHEAD
 RAMP A MM 0.140 →
 RAMP A MM 0.190--STOP

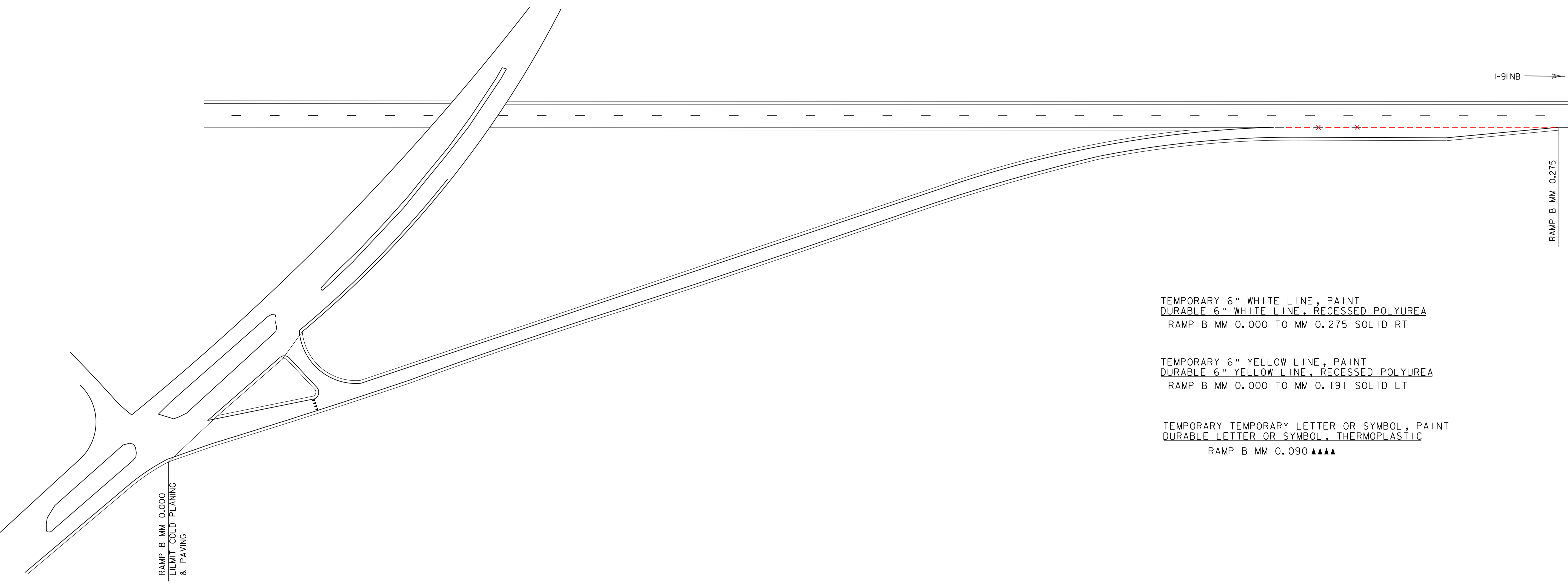
TEMPORARY TEMPORARY 24" STOP BAR, PAINT
 DURABLE 24" STOP BAR, THERMOPLASTIC
 RAMP A MM 0.190

**INTERCHANGE #17
 RAMP A**

PROJECT NAME: NEWBURY
 PROJECT NUMBER: IM 091-2 (77)

FILE NAME: p07a146.dgn
 PROJECT LEADER: PVMT. MGMT.
 DESIGNED BY: JLR/LSW
 IPARM FILE NAME: p07a146int1.i

PLOT DATE: 25-OCT-2011 4:21
 DRAWN BY: MRS
 CHECKED BY: PVMT. MGMT.
 SHEET 11 OF 20



I-91 NB →

RAMP B MM 0.275

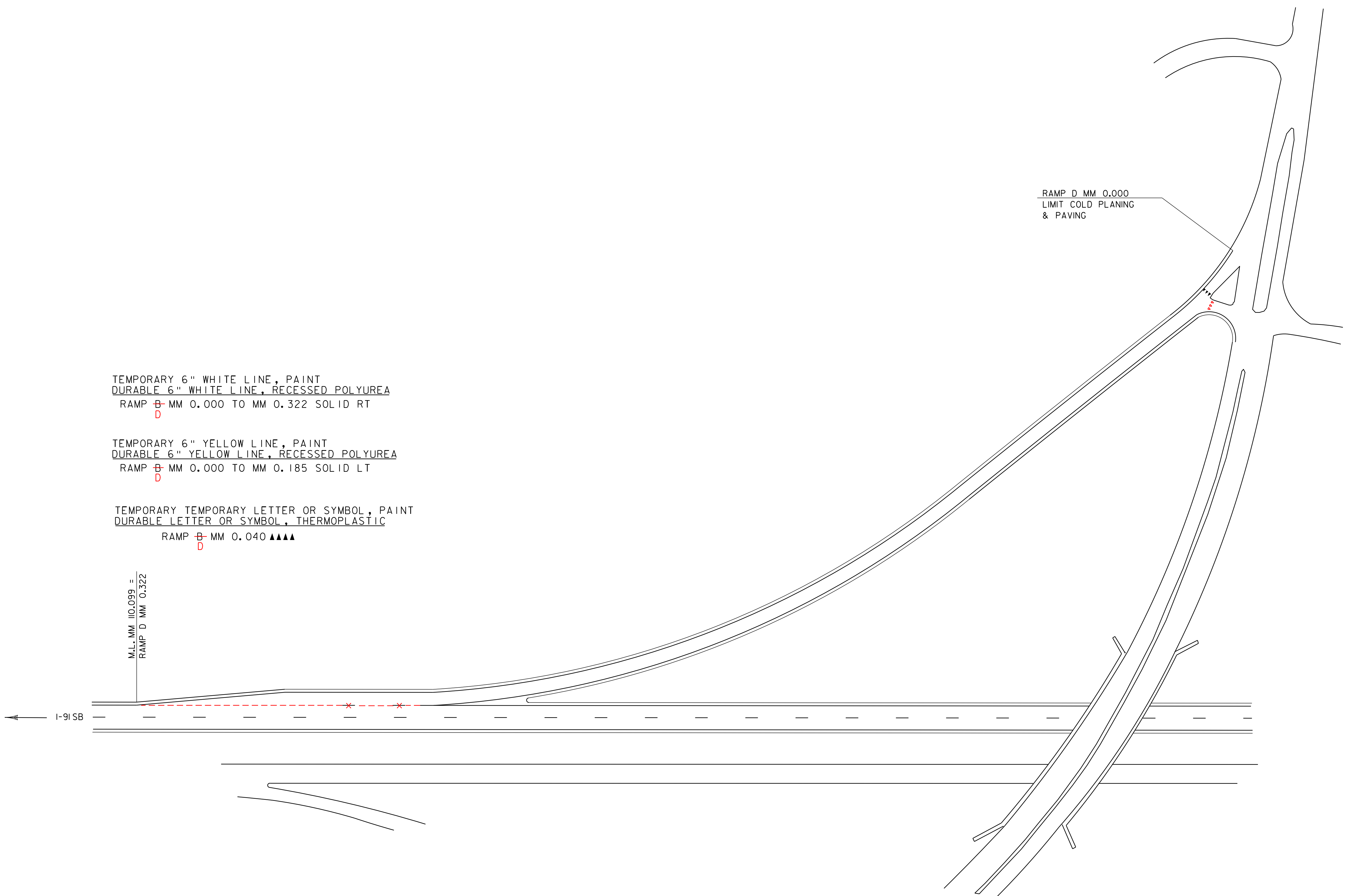
RAMP B MM 0.000
LILMIT COLD PLANING
& PAVING

TEMPORARY 6" WHITE LINE, PAINT
DURABLE 6" WHITE LINE, RECESSED POLYUREA
RAMP B MM 0.000 TO MM 0.275 SOLID RT

TEMPORARY 6" YELLOW LINE, PAINT
DURABLE 6" YELLOW LINE, RECESSED POLYUREA
RAMP B MM 0.000 TO MM 0.191 SOLID LT

TEMPORARY TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL, THERMOPLASTIC
RAMP B MM 0.090 ▲▲▲▲

INTERCHANGE #17 RAMP B	PROJECT NAME: NEWBURY	PLOT DATE: 25-OCT-2011 4:21
	PROJECT NUMBER: IM 091-2 (77)	DRAWN BY: MRS
	FILE NAME: p07a146.dgn	CHECKED BY: PVMT. MGMT.
	PROJECT LEADER: PVMT. MGMT.	SHEET 12 OF 20
	DESIGNED BY: JLR/LSW	
	IPARM FILE NAME: p07a146int2.i	



TEMPORARY 6" WHITE LINE, PAINT
 DURABLE 6" WHITE LINE, RECESSED POLYUREA
 RAMP $\frac{B}{D}$ MM 0.000 TO MM 0.322 SOLID RT

TEMPORARY 6" YELLOW LINE, PAINT
 DURABLE 6" YELLOW LINE, RECESSED POLYUREA
 RAMP $\frac{B}{D}$ MM 0.000 TO MM 0.185 SOLID LT

TEMPORARY TEMPORARY LETTER OR SYMBOL, PAINT
 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 RAMP $\frac{B}{D}$ MM 0.040 ▲▲▲▲

M.L. MM 110.099 =
 RAMP D MM 0.322

RAMP D MM 0.000
 LIMIT COLD PLANING
 & PAVING

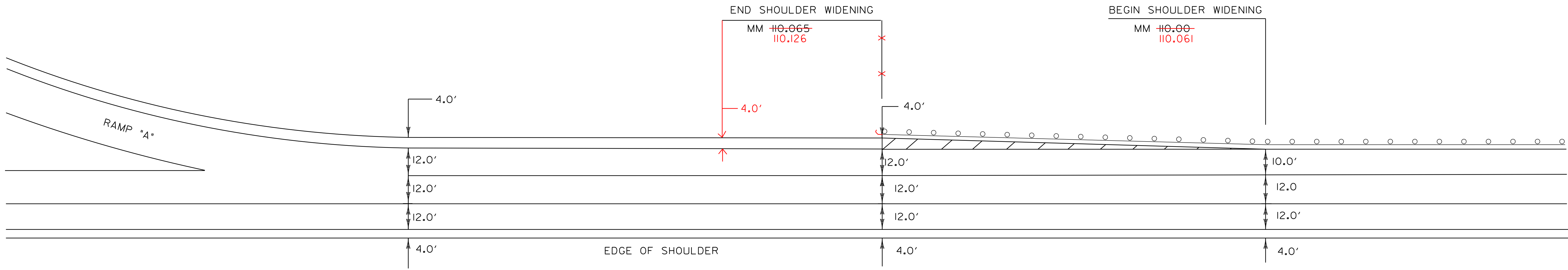
1-91 SB

**INTERCHANGE #17
 RAMP D**

PROJECT NAME: NEWBURY
 PROJECT NUMBER: IM 091-2 (77)

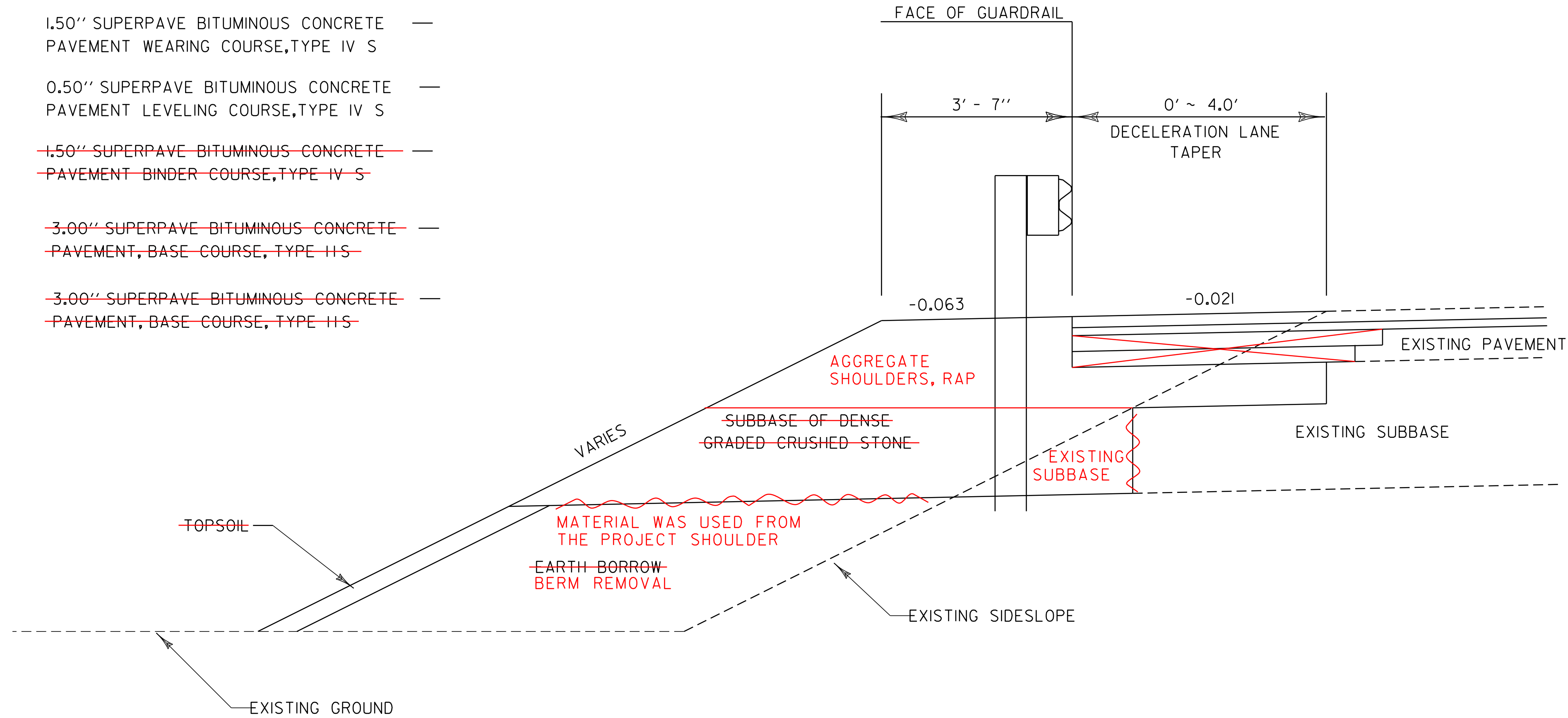
FILE NAME: p07a146.dgn
 PROJECT LEADER: PVMT. MGMT.
 DESIGNED BY: JLR/LSW
 IPARM FILE NAME: p07a146int4.i

PLOT DATE: 25-OCT-2011 4:21
 DRAWN BY: MRS
 CHECKED BY: PVMT. MGMT.
 SHEET 14 OF 20



**INTERCHANGE NO.17 RAMP "A" DECELERATION
LANE SHOULDER WIDENING**

- 1.50" SUPERPAVE BITUMINOUS CONCRETE —
PAVEMENT WEARING COURSE, TYPE IV S
- 0.50" SUPERPAVE BITUMINOUS CONCRETE —
PAVEMENT LEVELING COURSE, TYPE IV S
- ~~1.50" SUPERPAVE BITUMINOUS CONCRETE —
PAVEMENT BINDER COURSE, TYPE IV S~~
- ~~3.00" SUPERPAVE BITUMINOUS CONCRETE —
PAVEMENT, BASE COURSE, TYPE IIS~~
- ~~3.00" SUPERPAVE BITUMINOUS CONCRETE —
PAVEMENT, BASE COURSE, TYPE IIS~~



STEEL BEAM GUARDRAIL W/ STEEL POSTS

MM ~~110.00~~ ~ ~~110.065~~
110.039 ~ 110.075

ANCHOR STEEL BEAM RAIL

MM ~~110.065~~
110.075

NOTES:

- ~~1. THE PAVEMENT WIDENING SHALL BE CONSTRUCTED USING TWO 3.00" LIFTS OF TYPE IIS BASE COURSE, ONE 1.50" LIFT OF TYPE IVS BINDER COURSE, ONE 0.50" LEVELING COURSE, AND ONE 1.50" WEARING COURSE. THE FIRST BASE COURSE SHALL BE PLACED TO MATCH THE ELEVATION OF THE ADJOINING SURFACE OF THE 1-91NB TRAVEL LANE.~~
2. EMULSIFIED ASPHALT SHALL BE APPLIED ON ALL EXISTING PAVEMENT SURFACES AND BETWEEN ALL COURSES OF PAVEMENT AT THE RATE OF 0.025 GAL/SY OR AS DIRECTED BY THE RESIDENT ENGINEER.

PAVEMENT WIDENING DETAIL

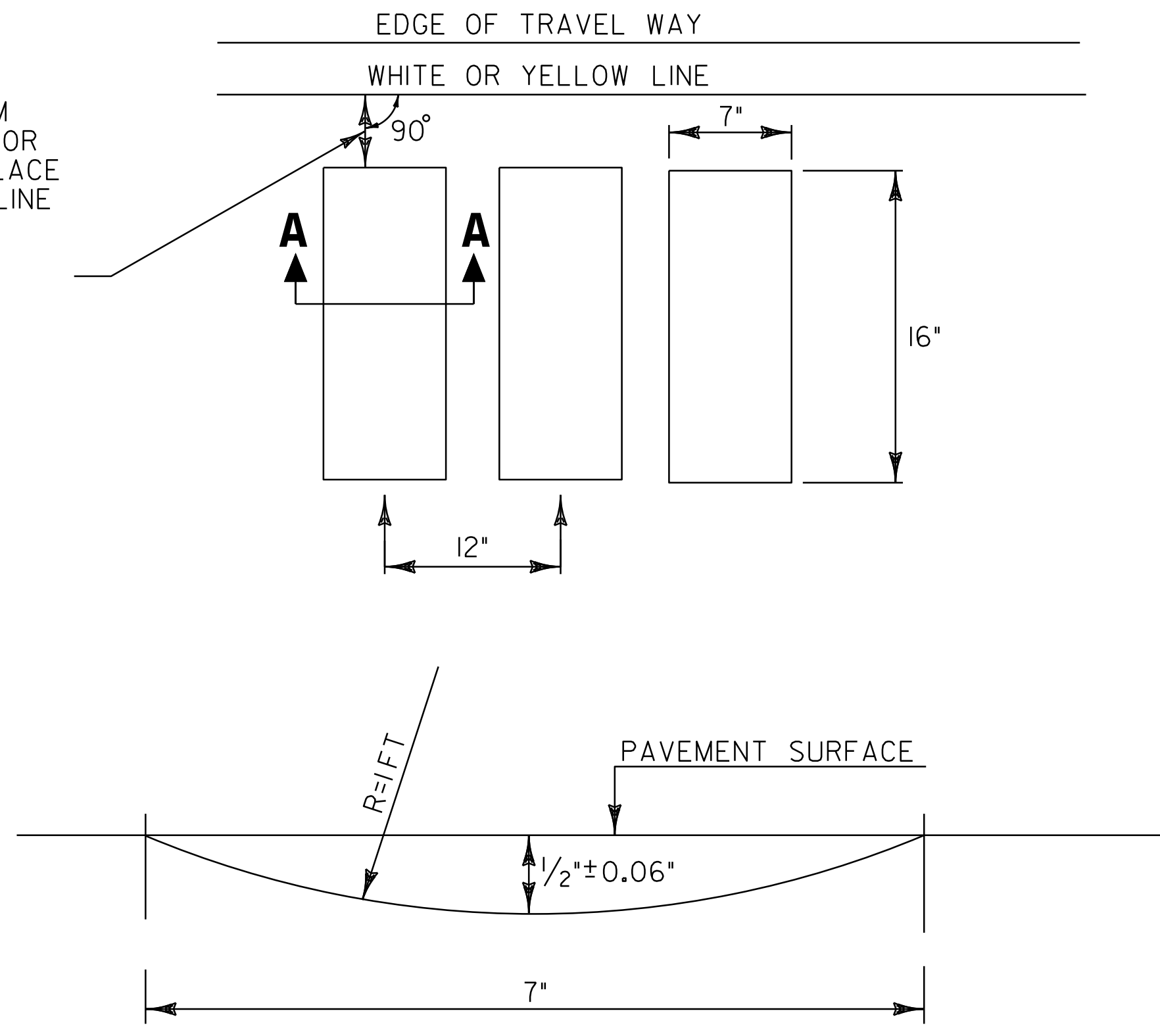
NOT TO SCALE

**PAVEMENT
WIDENING
DETAIL SHEET**

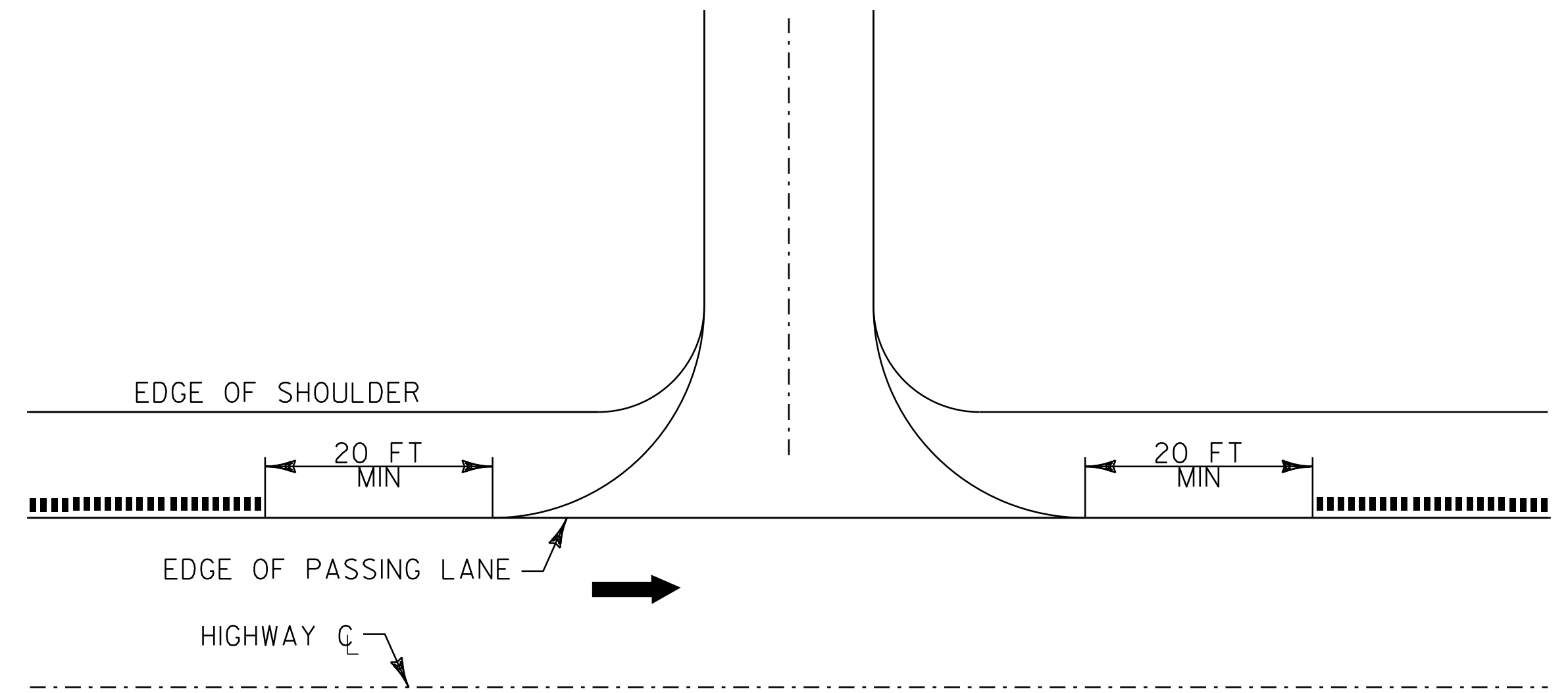
PROJECT:	NEWBURY	PROJECT NO.:	IM 091-2(77)
DESIGN FILE NAME:	/pave/07a146/pa146.dgn	PLOT DATE:	25-OCT-2011 14:2
IPARM FILE NAME:	pa146d1	SURVEY DATE:	
SURVEYED BY:		DRAWN BY:	JLR
SQUAD LEADER:	ERD	SHEET:	15 OF 20

DATUM _____
VERTICAL _____
HORIZONTAL _____

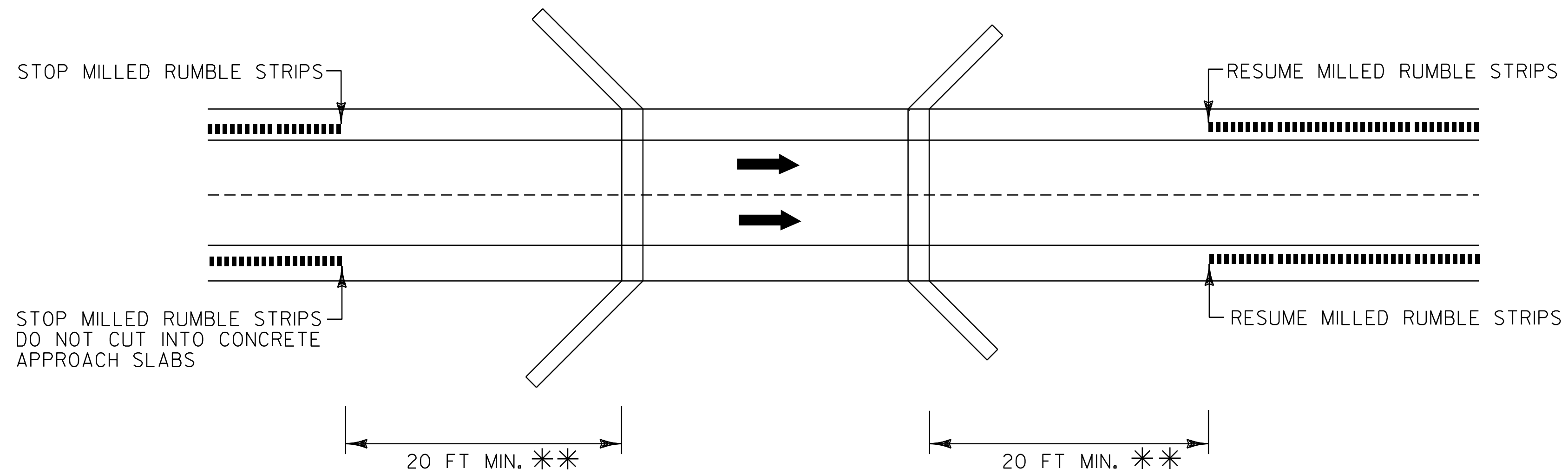
PLACE RUMBLE STRIPS 30" FROM EDGE LINE (WHITE OR YELLOW) FOR ALL SHOULDERS 6' OR WIDER, PLACE RUMBLE STRIPS 6" FROM EDGE LINE (WHITE OR YELLOW) FOR ALL SHOULDERS LESS THAN 6' WIDE WITH NO GUARDRAIL



SECTION A-A
TYPICAL MILLING DETAIL



U-TURN DETAIL



** BRIDGE RAIL WILL DETERMINE MINIMUM DISTANCE IN SOME CASES.

BRIDGE DETAIL

LEGEND

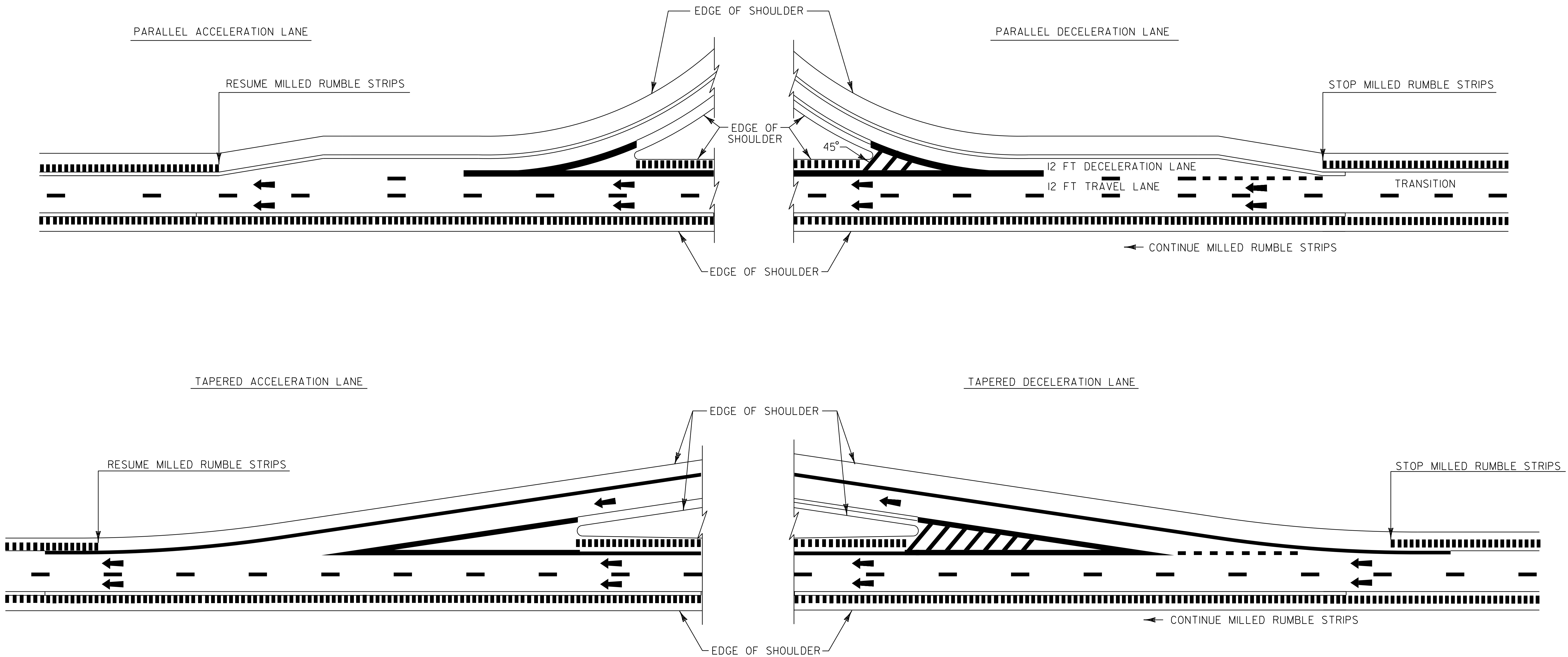
- DIRECTION OF TRAFFIC FLOW
- MILLED RUMBLE STRIPS

NOT TO SCALE

MILLED RUMBLE STRIP DETAILS SHEET 1

PROJECT NAME: NEWBURY	PLOT DATE: 25-OCT-2011 4:21
PROJECT NUMBER: IM 091-2 (77)	DRAWN BY: TBG
FILE NAME: p07a146.dgn	CHECKED BY: PTS
PROJECT LEADER: T. DOMEY	SHEET 16 OF 20
DESIGNED BY: JLR/LSW	
IPARM FILE NAME: p07a146mrsdl.i	

TYPICAL MILLED RUMBLE STRIP DETAIL AT INTERCHANGES





NOTE:

1. THIS TYPICAL MAY BE MODIFIED AT THE DISCRETION OF THE RESIDENT ENGINEER IF ACTUAL FIELD CONDITIONS NECESSITATE SUCH ACTIONS.

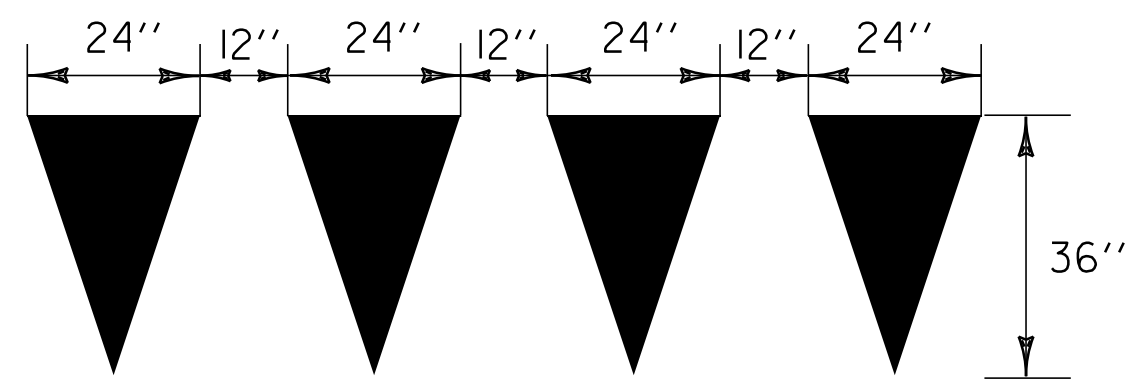
NOT TO SCALE

LEGEND

-  DIRECTION OF TRAFFIC FLOW
-  MILLED RUMBLE STRIPS

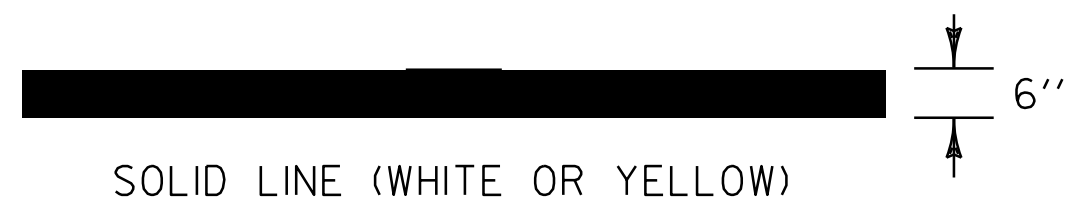
MILLED RUMBLE STRIP DETAILS SHEET 2

PROJECT NAME: NEWBURY	PLOT DATE: 25-OCT-2011 4:21
PROJECT NUMBER: IM 091-2 (77)	DRAWN BY: TBG
FILE NAME: p07a146.dgn	CHECKED BY: PTS
PROJECT LEADER: T. DOMEY	SHEET 17 OF 20
DESIGNED BY: JLR/LSW	
IPARM FILE NAME: p07a146mrsd2.i	

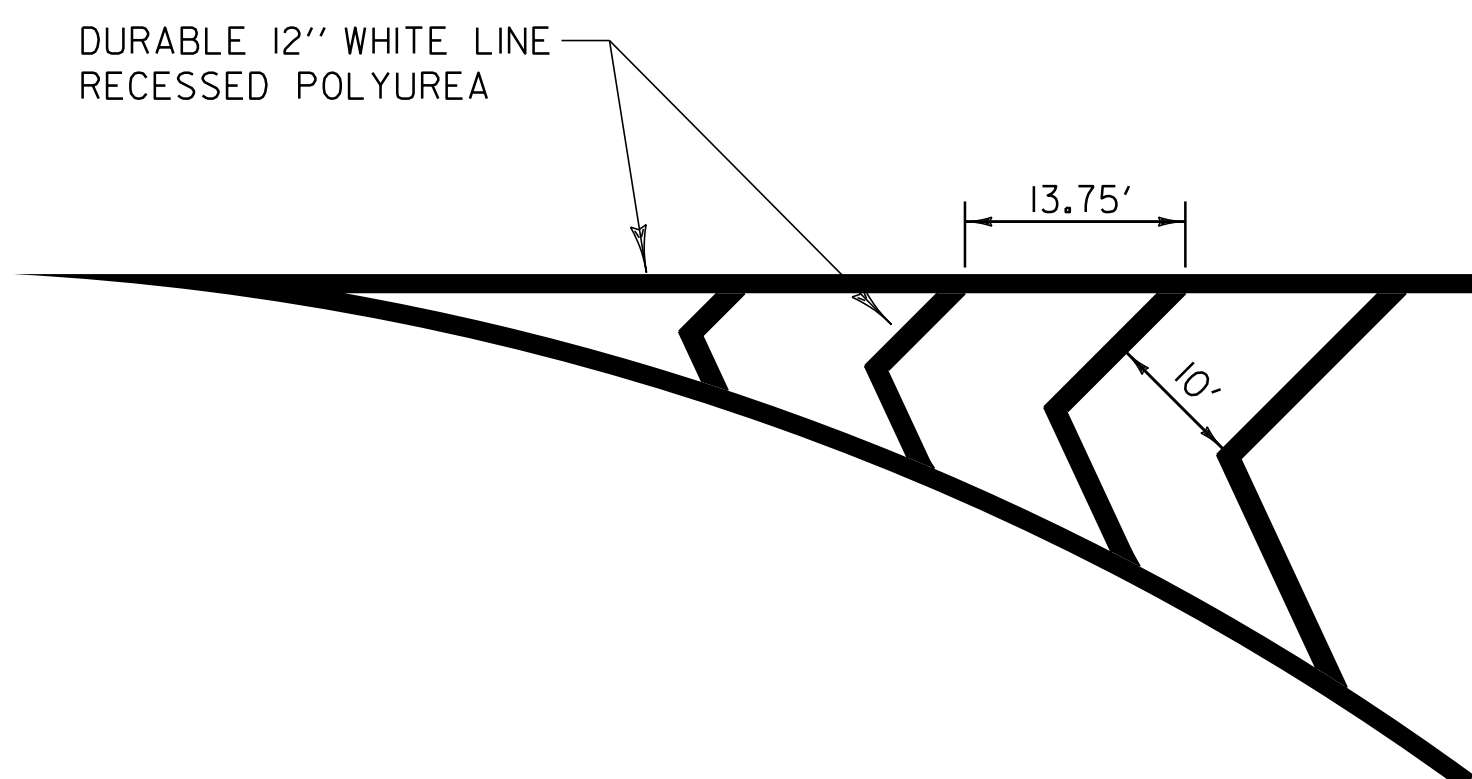


YIELD LINE DETAILS

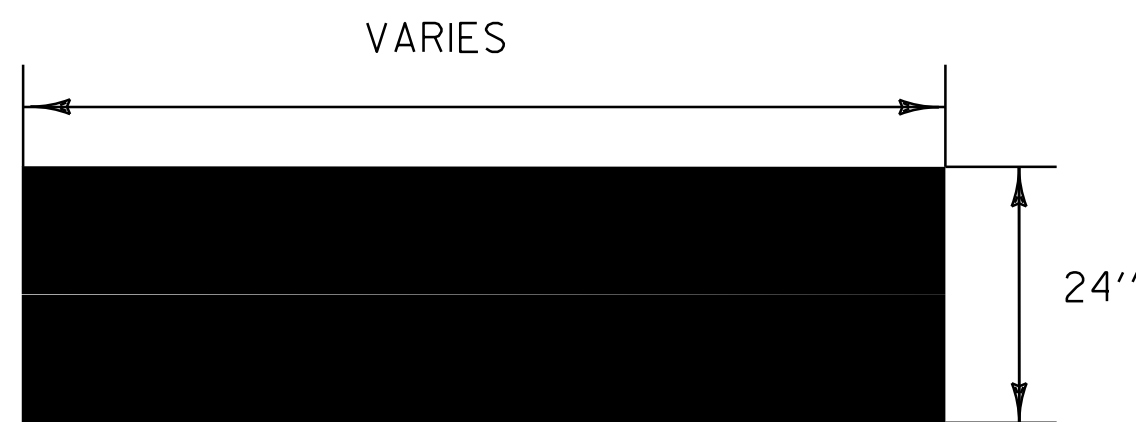
TO BE INSTALLED ONLY AT THE DIRECTION OF THE RESIDENT ENGINEER
TO BE PAID AS ONE LETTER OR SYMBOL PER TRIANGLE



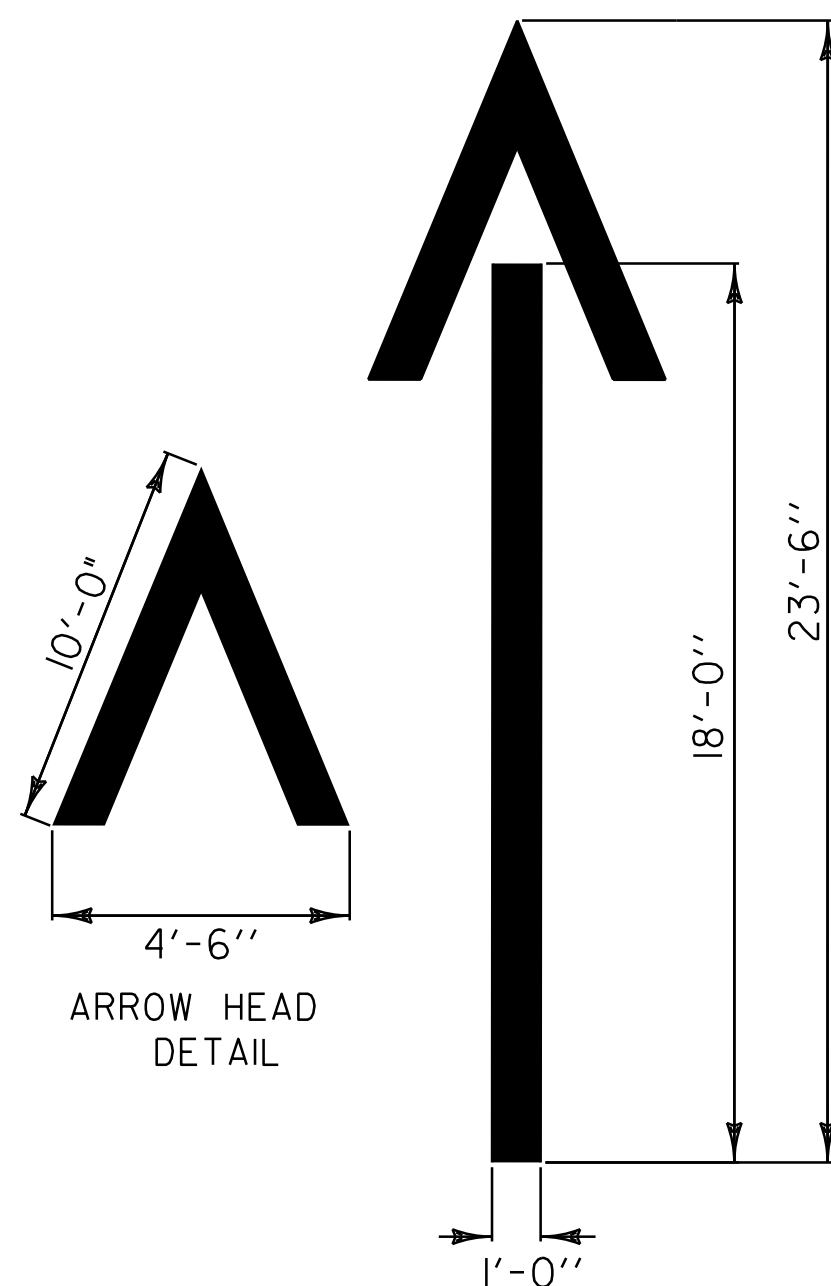
PAVEMENT MARKING LINE DETAILS



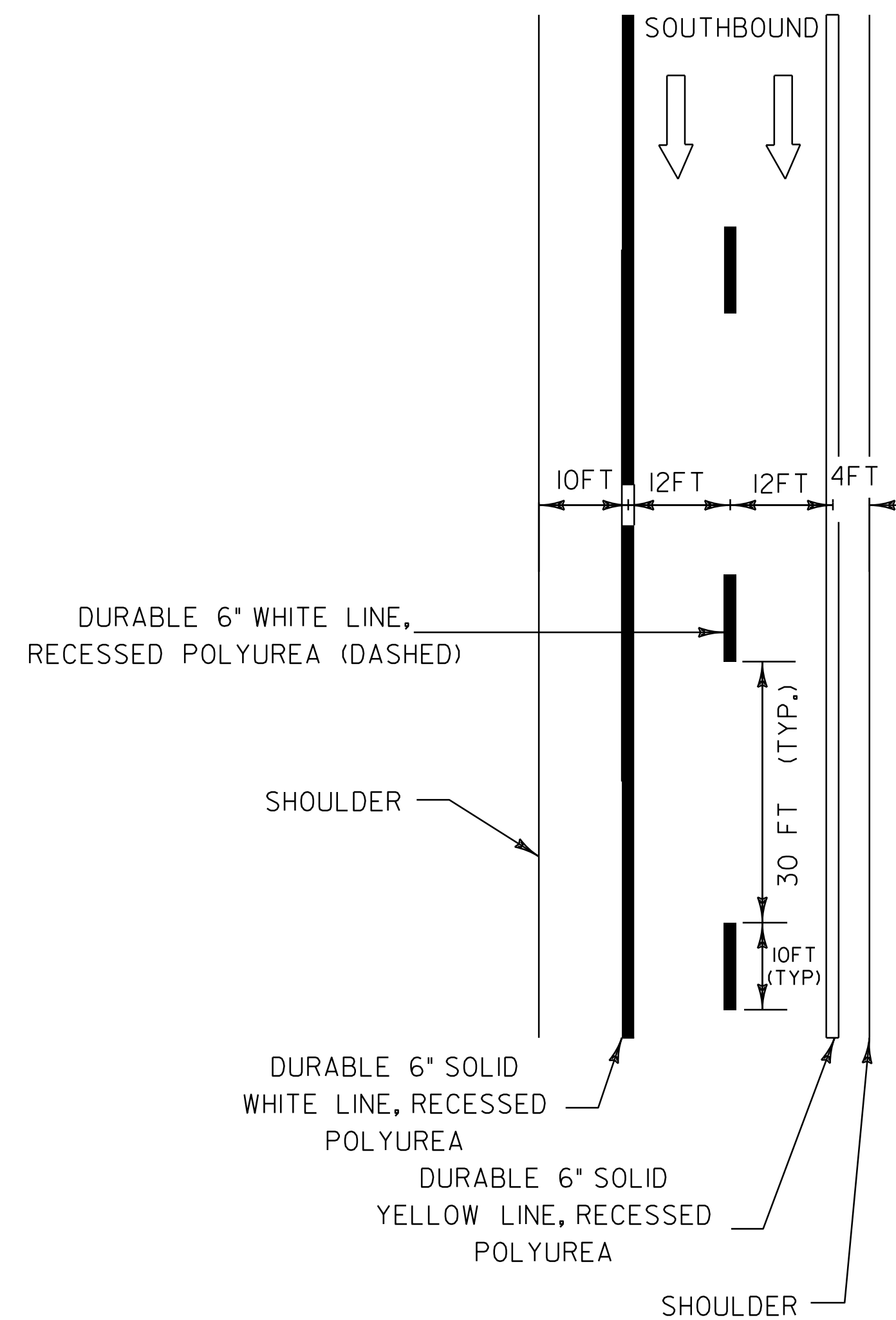
GORE MARKING DETAIL



STOP BAR DETAIL

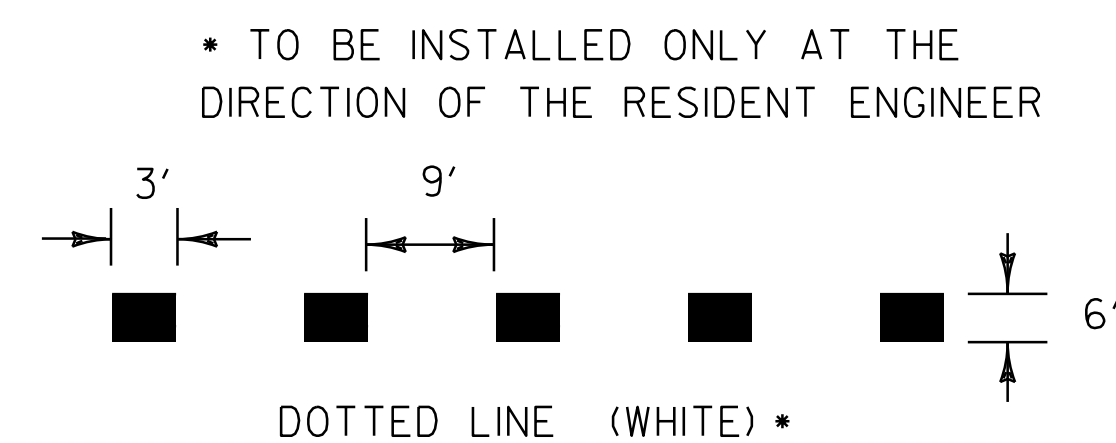


WRONG-WAY ARROW DETAILS



TYPICAL MAINLINE MARKING PLAN

LEGEND



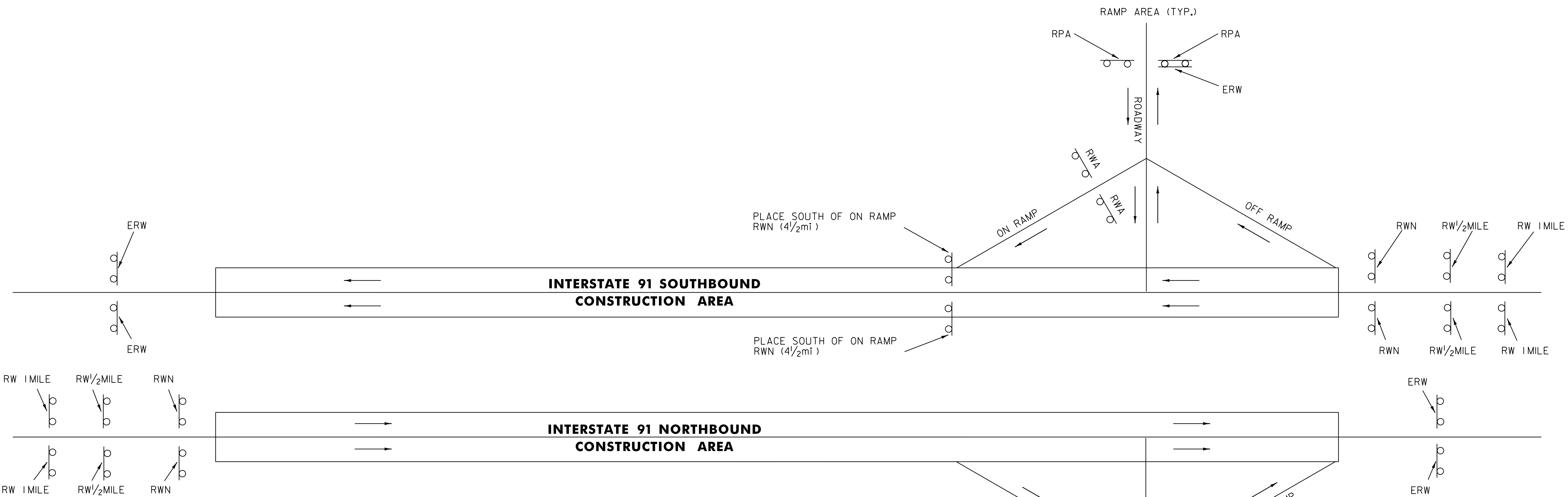
* TO BE INSTALLED ONLY AT THE DIRECTION OF THE RESIDENT ENGINEER

NOT TO SCALE

PAVEMENT MARKING DETAIL SHEET

PROJECT NAME: NEWBURY
PROJECT NUMBER: IM 091-2 (77)

FILE NAME: p07al46.dgn	PLOT DATE: 25-OCT-2011 4:21
PROJECT LEADER: T. DOMEY	DRAWN BY: TBG
DESIGNED BY: JLR/LSW	CHECKED BY: PTS
IPARM FILE NAME: p07al46+pm.i	SHEET 18 OF 20



NOTES:

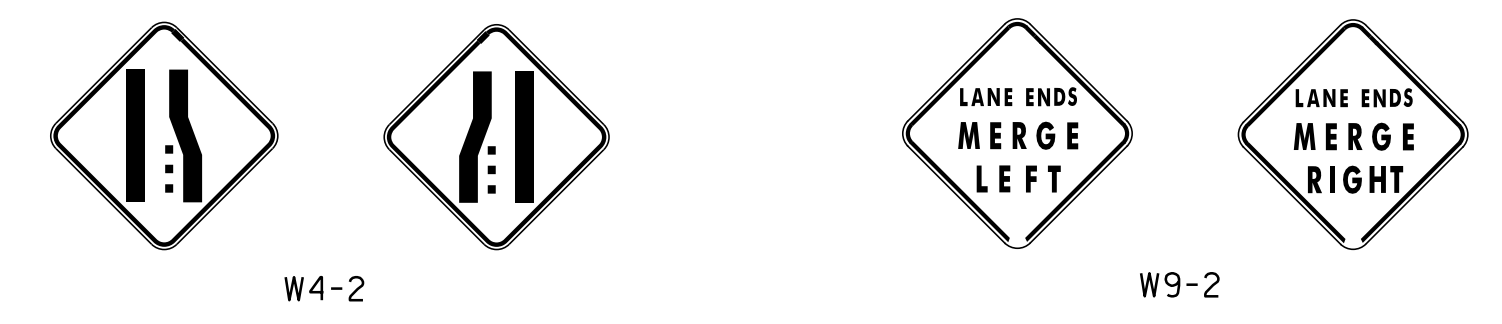
1. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) SHALL NOT BE PAID SEPARATELY BUT SHALL BE INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL".
2. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN APPROACH PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH THE LATEST EDITION OF THE MUTCD AND VTRANS STANDARDS E-103 & E-106. PAYMENT FOR PROVIDING THIS PACKAGE SHALL BE INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL".
3. ADDITIONAL RAMP SIGNING MAY BE REQUIRED AS DIRECTED BY THE RESIDENT ENGINEER.
4. THE BID PRICE FOR "TRAFFIC CONTROL", ITEM 641.10, SHALL INCLUDE ALL APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, PORTABLE ARROW BOARDS, BARRIERS, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN VTRANS STANDARDS. ALL ADJUSTING, RELOCATING, AND REMOVING OF THESE DEVICES AS DIRECTED BY THE RESIDENT ENGINEER SHALL ALSO BE INCLUDED. THE FOLLOWING ITEMS WILL BE PAID FOR SEPARATELY:
646.626, 646.632, 646.662, 646.682, 646.692 - TEMPORARY PAVEMENT MARKINGS
630.10 AND 630.15 - UNIFORMED TRAFFIC OFFICERS AND FLAGGERS
5. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE PROVIDED FOR USE ALONG THIS PROJECT. THE PLACEMENT OF THESE UNITS AS WELL AS THE MESSAGE WILL BE APPROVED BY THE RESIDENT ENGINEER. THESE SIGNS WILL BE PAID FOR UNDER ITEM 641.15, "PORTABLE CHANGEABLE MESSAGE SIGN".

PCMS SHOULD NOT REPLACE ANY OF THE SIGNING DETAILED IN THE MUTCD AND SHOULD NOT BE USED IF STANDARD TRAFFIC CONTROL DEVICES ADEQUATELY PROVIDE THE INFORMATION THE MOTORISTS NEED TO TRAVEL SAFELY.

THE PCMS SHALL CONSIST OF EITHER ONE OR TWO PHASES. TYPICALLY, A PHASE SHALL CONSIST OF UP TO THREE LINES OF EIGHT CHARACTERS PER LINE. THE PCMS SHOULD BE USED AS A SUPPLEMENT AND NOT AS A SUBSTITUTE FOR CONVENTIONAL SIGNS AND PAVEMENT MARKINGS.

THE PCMS SHOULD COMMUNICATE WHAT INFORMATION MOTORISTS NEED TO KNOW. UNNECESSARY INFORMATION SHOULD BE AVOIDED. MESSAGES SHOULD BE UPDATED PERIODICALLY TO DESCRIBE THE WORK ACTIVITY OCCURRING SO THAT THE PCMS CONTINUES TO COMMAND THE ATTENTION OF MOTORISTS.

6. THE MUTCD 2003 SHALL BE THE STANDARD FOR ALL TRAFFIC CONTROL DEVICES. EXISTING SIGNS, SIGNALS AND MARKINGS SHALL BE VALID UNTIL SUCH TIME AS THEY ARE REPLACED OR RECONSTRUCTED. WHEN NEW TRAFFIC CONTROL DEVICES ARE ERECTED OR PLACED OR EXISTING TRAFFIC CONTROL DEVICES ARE REPLACED OR REPAIRED THE EQUIPMENT, DESIGN, METHOD OF INSTALLATION, PLACEMENT OR REPAIR SHALL CONFORM WITH SUCH STANDARDS.
7. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE, AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS.
8. ON VTRANS STANDARD E-103, SIGN W4-2 SHOULD BE REPLACED WITH W9-2.



9. ALL SIGNS THAT ARE NOT BEING USED SHALL BE COVERED APPROPRIATELY. PAYMENT WILL BE CONSIDERED INCIDENTAL TO CONTRACT ITEM 641.10.

- LEGEND**
- RW 1 MILE = ROAD WORK 1 MILE
 - RW 1/2 MILE = ROAD WORK 1/2 MILE
 - RWA = ROAD WORK AHEAD
 - RWN = ROAD WORK NEXT XX MILES
 - ERW = END ROAD WORK
 - RPA = RAMP PAVING AHEAD
 - = TRAFFIC FLOW ARROWS

TEMPORARY TRAFFIC CONTROL PLAN

PROJECT NAME: NEWBURY	
PROJECT NUMBER: IM 091-2 (77)	
FILE NAME: p07a146.dgn	PLOT DATE: 25-OCT-2011 4:22
PROJECT LEADER: T. DOMEY	DRAWN BY: MRS
DESIGNED BY: JSR/LSW	CHECKED BY: PTS
IPARM FILE NAME: p07a146+tcp.i	SHEET 20 OF 20

NOT TO SCALE