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G-1M	STEEL BEAM GUARD RAIL W/STEEL POSTS	01-03-00
G-1DM	STEEL BEAM GUARD RAIL APPROACH END TERMINAL	01-03-00
G-19M	GENERIC GRADING PLANS FOR GUARD RAIL END TERMINALS	11-15-02
G-6-1M	CABLE GUARD RAIL W/STEEL POSTS - ANCHORS	06-13-97
G-6-2M	CABLE GUARD RAIL W/STEEL POSTS - ANCHORS	06-13-97
ESFM	PERMANENT SNOW FENCE	07-10-97

STATE OF VERMONT AGENCY OF TRANSPORTATION



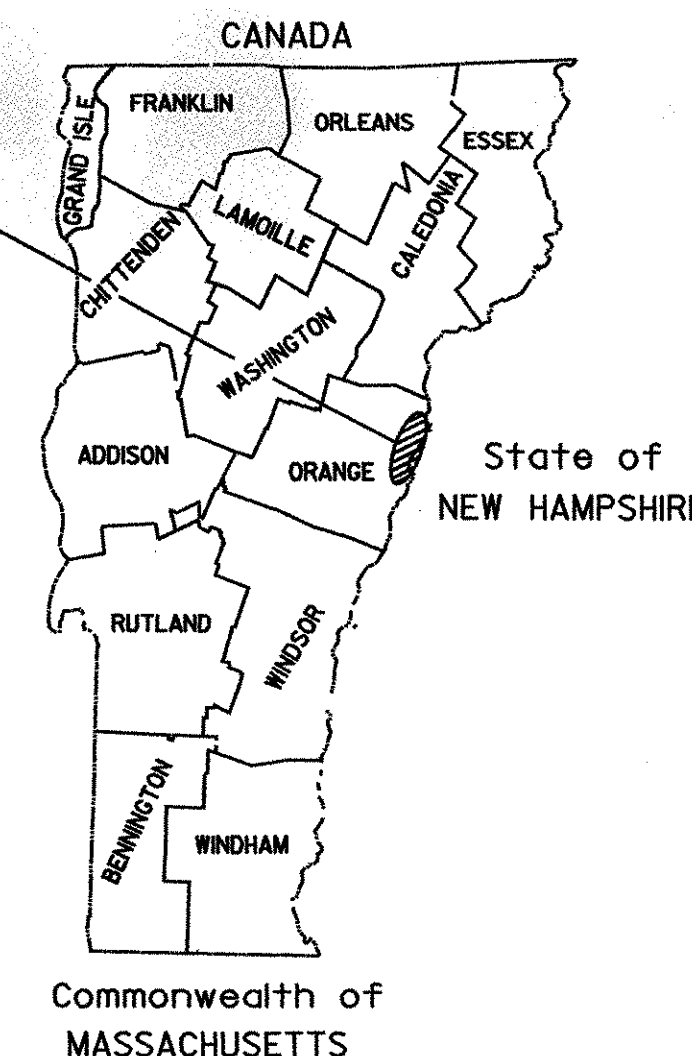
PROPOSED IMPROVEMENTS TOWNS OF BRADFORD AND NEWBURY COUNTY OF ORANGE INTERSTATE ROUTE 91 (SB)

BEGINNING AT STATION 158+359.440 (MM 98.400) IN THE TOWN OF BRADFORD, AND EXTENDING NORTHERLY ALONG INTERSTATE 91 (IN THE SOUTHBOUND LANE) FOR A DISTANCE OF 10,621.670 METERS (6.600 MILES) TO STATION 168+981.120 (MM 105.000) IN THE TOWN OF NEWBURY.

PROJECT DATA	LENGTH (METERS)	(MILES)
SOUTHBOUND		
STA 158+359.440 TO 168+981.120 (MM 98.400 TO MM 105.000)	10,621.670	6.600
LENGTH OF ROADWAY	10,621.670	6.600
LENGTH OF PROJECT	10,621.670	6.600

PROJECT LOCATION IM 091-2(18)

State of
NEW YORK



TRAFFIC DATA					
ADT		DHV		ESAL's	ESAL's
2005	2015	2005	2015	(2005-2015)	(2005-2025)
3300	4100	400	500	3,129,000	8,916,000

BRADFORD - NEWBURY I-91, MM 98.400 TO MM 105.000 (SB)	
BITUMINOUS CONCRETE PAVEMENT SUPERPAVE MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESAL (20 YEAR)	8,916,000
DESIGN NUMBER OF GYRATIONS	75
PERFORMANCE GRADED ASPHALT BINDER	PG 58-34

RECORD PLANS

CONTRACTOR: PIKE INDUSTRIES - BERLIN, VT

RESIDENT ENGINEER: CARL FIELDER

CONSTRUCTION BEGAN: MAY 10, 2004

CONSTRUCTION COMPLETE: AUGUST 13, 2004

RECORD PLANS BY: C. PIERCE

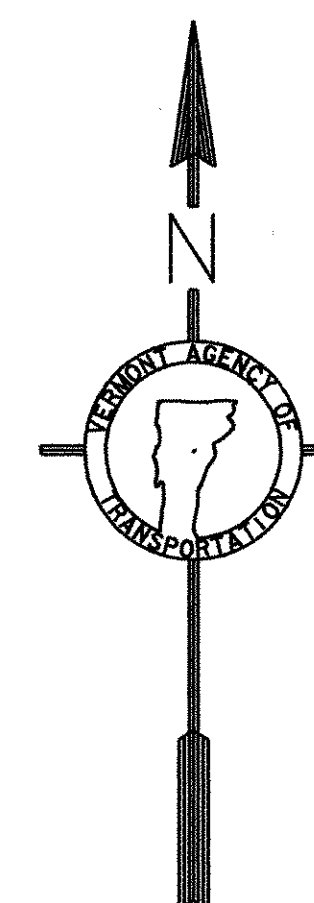
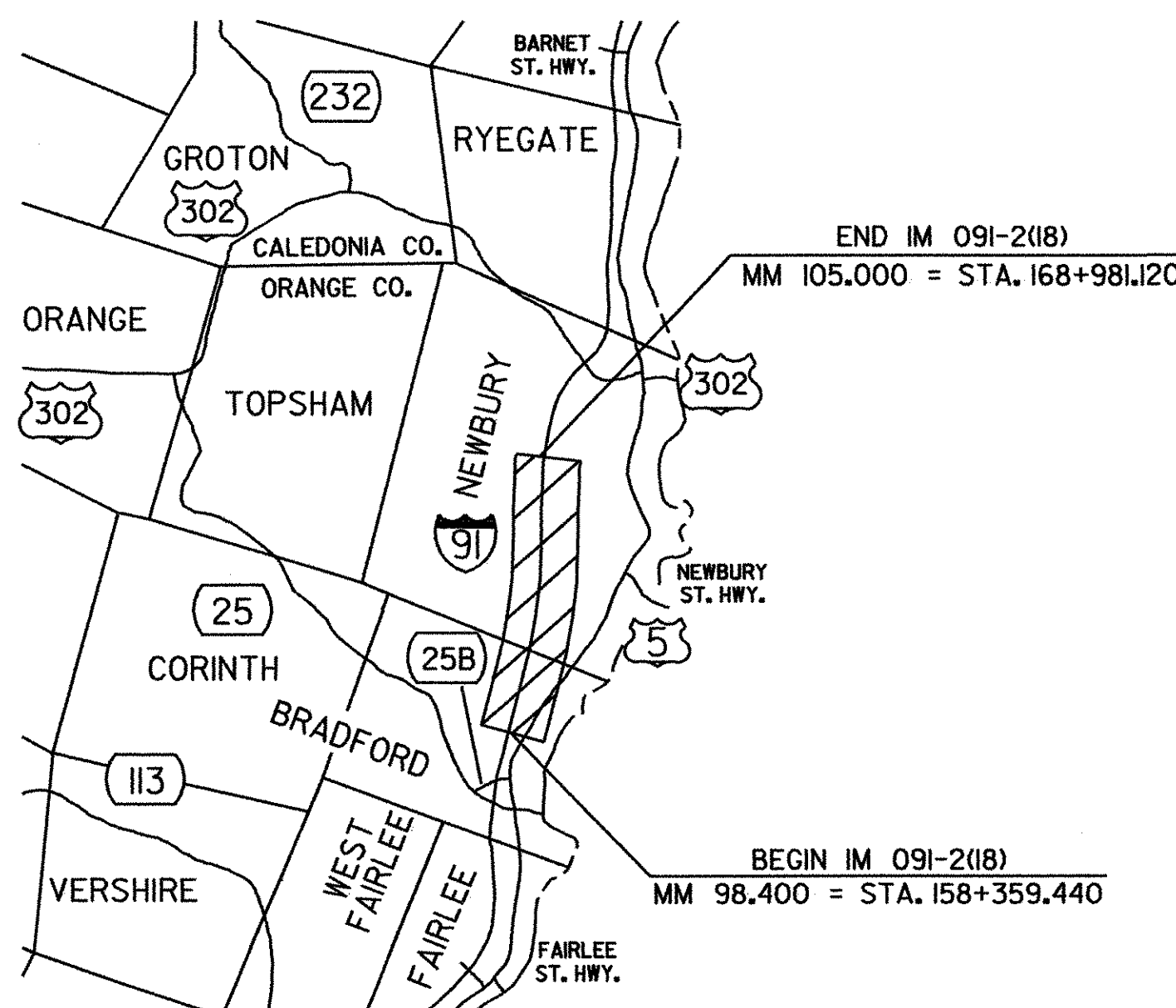
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

BY *Carl Fielder* RESIDENT ENGINEER

DATE *Sept 23, 2005*

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.

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING AND RESURFACING OF THE SOUTHBOUND TRAVEL LANES AND SHOULDERS, NEW PAVEMENT MARKINGS, GUARDRAIL IMPROVEMENTS AND INCIDENTAL ITEMS.



RIGHT-OF-WAY LIMITS, IF APPLICABLE, ARE PROVIDED SOLELY FOR THE CONVENIENCE OF THE STATE AND ITS CONTRACTOR DURING THE COURSE OF THIS PAVING PROJECT. ANY REFERENCES TO OFFSETS ON THESE PLANS ARE APPROXIMATE AND SHOULD NOT BE RELIED UPON FOR ANY OTHER PURPOSES.

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Metric

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2001, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JANUARY 4, 2001 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATOR

APPROVED *Mark D. Kistler* DATE 3-9-04

DIRECTOR OF PROGRAM DEVELOPMENT

APPROVED *Signature* DATE 1/13/04

PROJECT MANAGER : WOOLLAVER

PROJECT NAME : BRADFORD - NEWBURY

PROJECT NUMBER : IM 091-2(18)

/pave/03a022/pavement/03a022.dgn 03a022t1t.j

SHEET 1 OF 9 SHEETS

CONVENTIONAL SIGNS	
COUNTY LINE	---
TOWN LINE	---
LIMITS OF ACCESS	---o---o---
POINT OF ACCESS	X
FENCE LINE	---x---x---
STONE WALL	=====
TRAVELED WAY	=====
GUARD RAIL	---o---o---
RAILROAD	=====
SURVEY LINE	---+---+---
CULVERT	---+---+---
POWER POLE	o
TELEPHONE POLE	o
TREES	o * o
CONTROL OF ACCESS	---//---
PROPERTY LINE	---
R.O.W. TAKING LINE	---SR---
SLOPE RIGHTS	---o---o---
TOP OF CUT	---o---o---
TOE OF SLOPE	---o---o---

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

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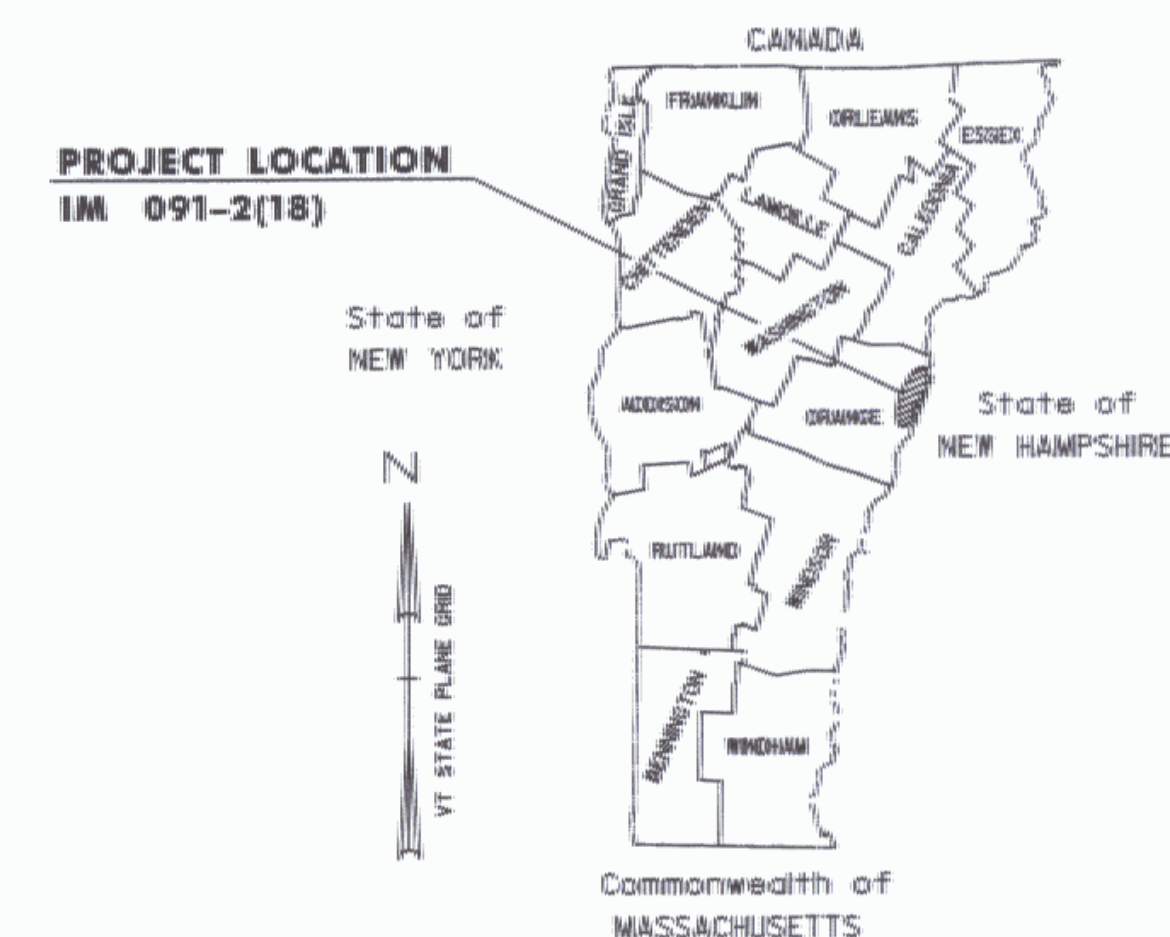
STATE OF VERMONT AGENCY OF TRANSPORTATION



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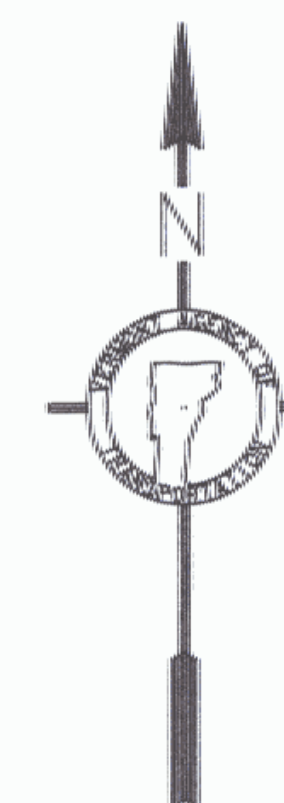
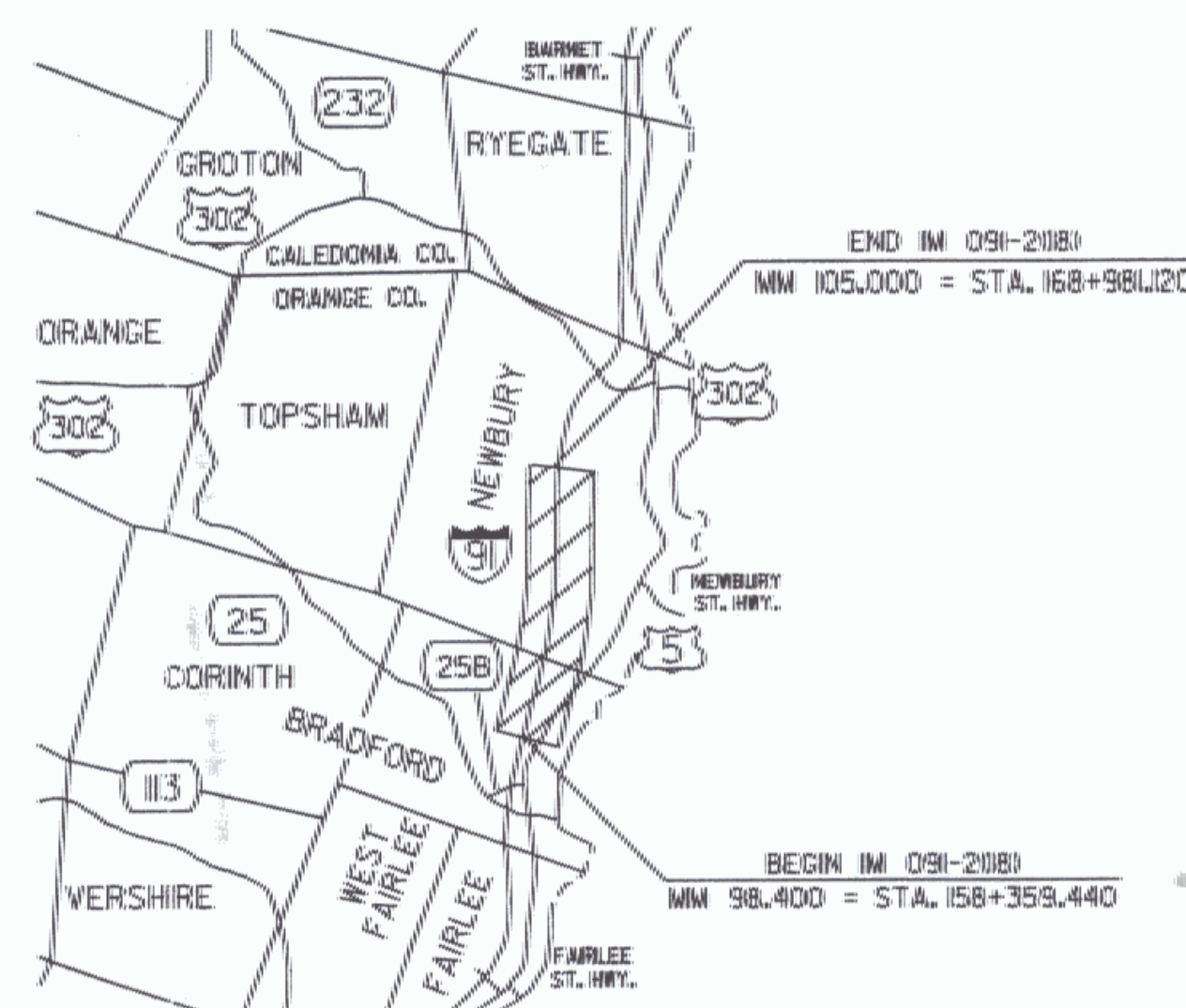


TRAFFIC DATA		ADT	DHV	ESAL's	ESAL's
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3300	4100	400	500	3,129,000	8,916,000

BRADFORD - NEWBURY 1-91, MM 98.400 TO MM 105.000 (SB)	
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SUPERPAVE MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESAL (20 YEAR)	8,916,000
DESIGN NUMBER OF GYRATIONS	75
PERFORMANCE GRADED ASPHALT BINDER	PG 58-34

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING AND RESURFACING OF THE SOUTHBOUND TRAVEL LANES AND SHOULDERS, NEW PAVEMENT MARKINGS, GUARDRAIL IMPROVEMENTS AND INCIDENTAL ITEMS.

[Signature]
Secretary of Transportation
or Duly Authorized Agent
April 20, 2004
Date



RIGHT-OF-WAY LIMITS, IF APPLICABLE, ARE PROVIDED SOLELY FOR THE CONVENIENCE OF THE STATE AND ITS CONTRACTOR DURING THE COURSE OF THIS PAVING PROJECT. ANY REFERENCES TO OFFSETS ON THESE PLANS ARE APPROXIMATE AND SHOULD NOT BE RELIED UPON FOR ANY OTHER PURPOSES.

UNLESS OTHERWISE NOTED, ALL DRAWINGS AND DETAILS ON THESE PLANS ARE DRAWN "NOT TO SCALE".

CONVENTIONAL SIGNS	
COUNTY LINE	---
TOWN LINE	---
LIMITS OF ACCESS	---X---
POINT OF ACCESS	X
FENCE LINE	---X---
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	SR
TOP OF CUT	---
TOE OF SLOPE	---

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

Pike Industries, Inc.
[Signature]
Contractor
[Signature]
Signature
Regional Manager
Title

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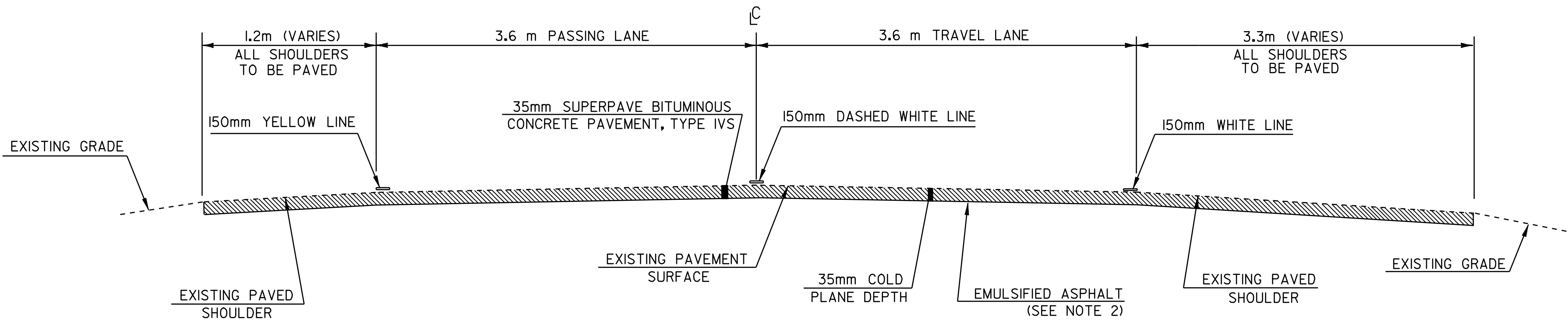
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/pave/03a022/pavement/03a022.dgn 03a022t11.j

Metric

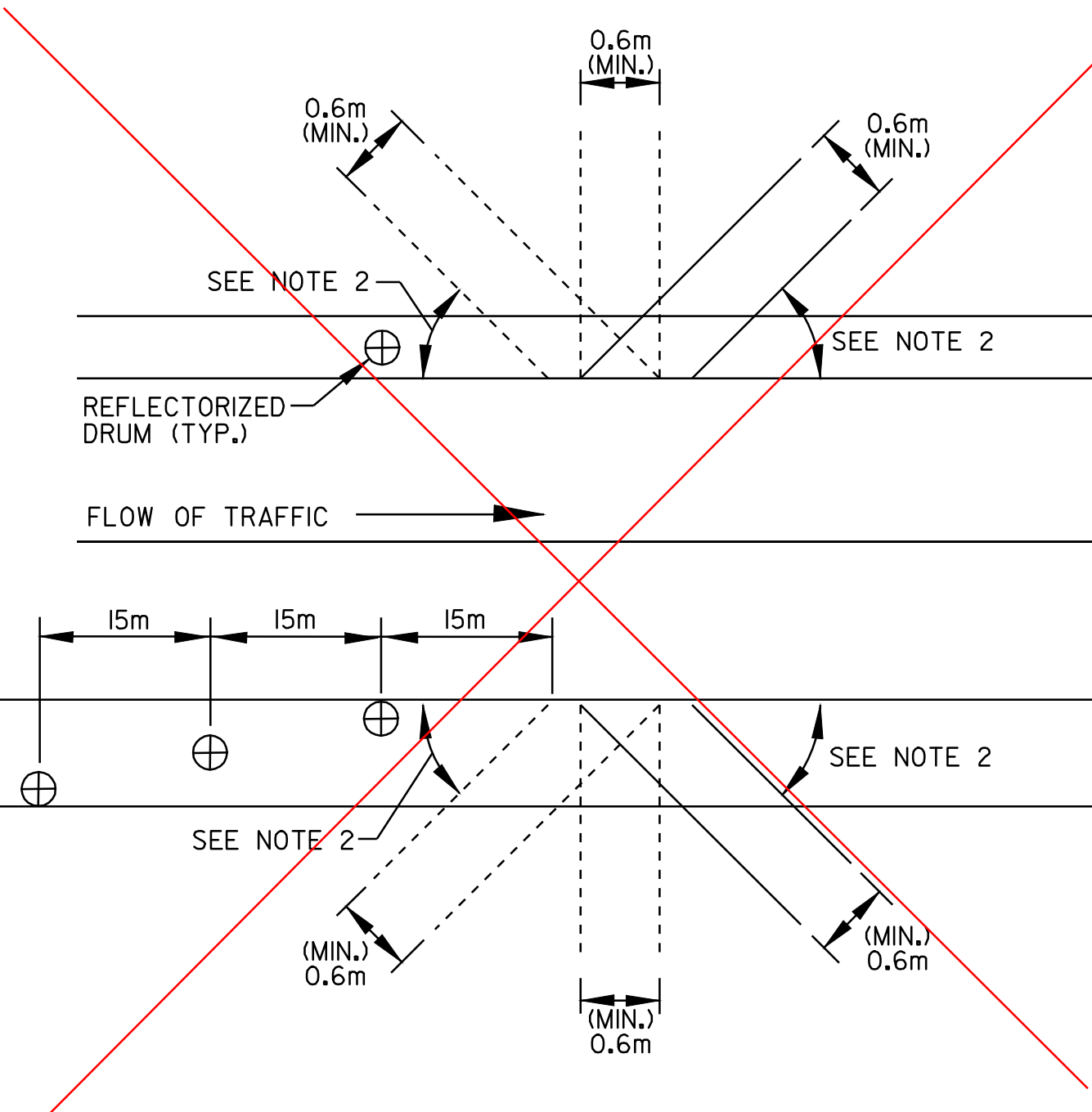
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATOR	
APPROVED <i>[Signature]</i> DATE 3-9-04	
DIRECTOR OF PROGRAM DEVELOPMENT	
APPROVED <i>[Signature]</i> DATE 1/10/04	
PROJECT MANAGER : WOOLLAVER	
PROJECT NAME : BRADFORD - NEWBURY	
PROJECT NUMBER : IM 091-2(18)	

SHEET 1 OF 9 SHEETS



MAINLINE TYPICAL SECTION
SOUTHBOUND

STA 158+359.440 TO 168+981.120



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 SUBSIDIARY TO ITEM 210.10.
4. BLEEDERS ARE TO BE FILLED DURING PAVING WITH ITEM 490.30 OR AS DESIGNATED BY THE RESIDENT ENGINNER.
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.

CONSERVATION SEED MIX

RURAL AREA - SEED MIXTURE					
% WT.	kg/ha.	NAME	PUR.%	GERM.%	
37.14	26.0	CREEPING RED FESCUE		98	85
37.14	26.0	TALL FESCUE		95	90
5.71	4.0	RED TOP		95	90
14.30	10.0	BIRDSFOOT TREFOIL		98	85
5.71	4.0	ANNUAL RYEGRASS		95	85
100.0	70.0				

SEED MIXTURE:
SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY MASS AND SHALL BE FREE OF ALL NOXIOUS WEED SEED.

SEED:
TO BE APPLIED PER SEEDING FORMULA OR AS DIRECTED BY THE RESIDENT ENGINEER.

FERTILIZER:
FORMULA 10-20-10 TO BE USED WITH SEED, APPLIED AT THE RATE OF 560 kg/ha (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

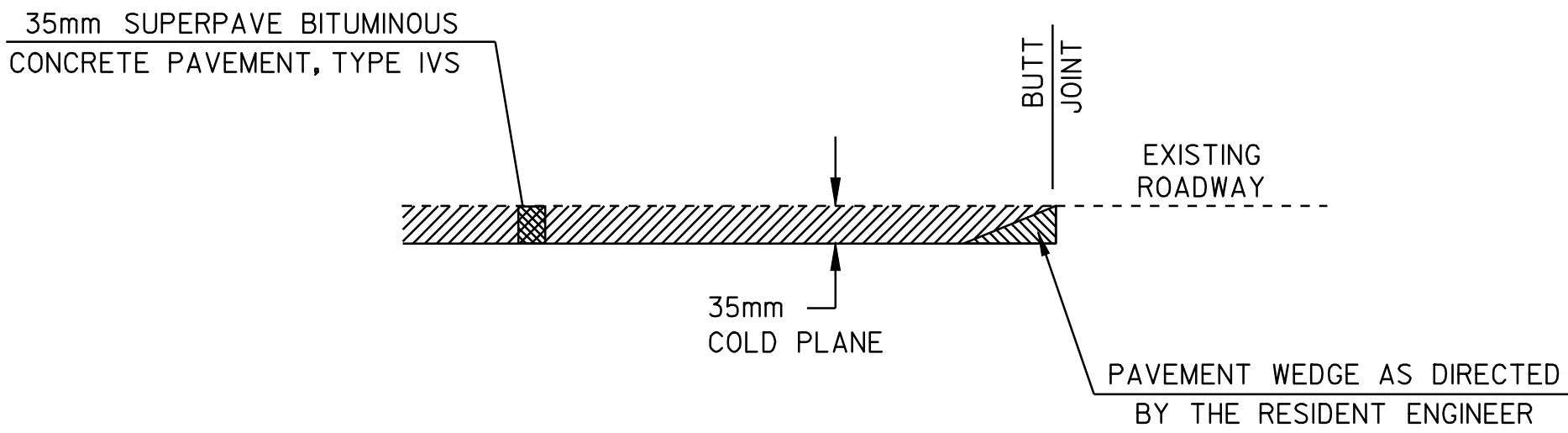
AGRICULTURAL LIMESTONE:
TO BE APPLIED AT THE RATE OF 4.5 tons/ha OR AS DIRECTED BY THE RESIDENT ENGINEER.

HAY MULCH:
TO BE APPLIED ON EARTH SLOPES AT THE RATE OF 4.5 tons/ha, 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.

NOTES

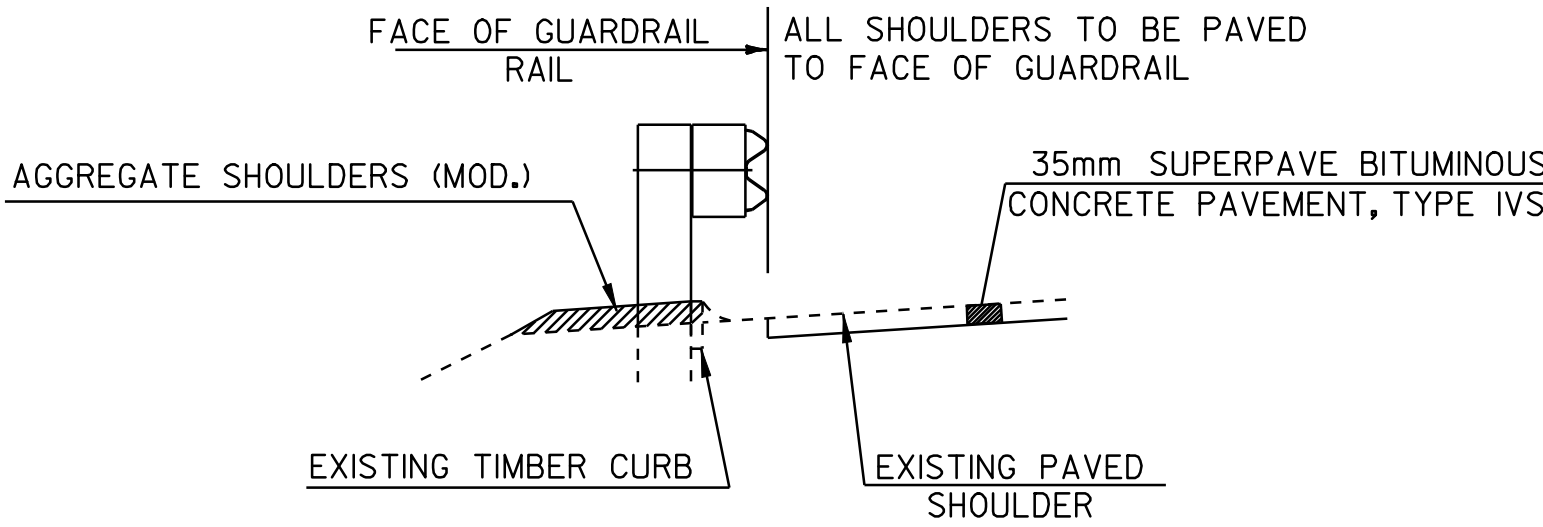
1. THE SINGLE PAVEMENT LIFT (WEARING COURSE) SHALL BE TYPE IVS.
ALL ASPHALT CEMENT USED IN THE SUPERPAVE BITUMINOUS CONCRETE PAVEMENT SHALL BE PG 58-34.
2. EMULSIFIED ASPHALT SHALL BE APPLIED ON EXISTING PAVEMENT SURFACES, BETWEEN ALL COURSES OF PAVEMENT AND ON COLD PLANED SURFACES AT THE RATE OF 0.12 L/SM OR AS DIRECTED BY THE RESIDENT ENGINEER.
3. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = +/- 5 mm (TOTAL THICKNESS).
4. COLD PLANING TO BE COMPLETED ACCORDING TO THE TYPICAL OR AS NOTED OTHERWISE ON THE PLANS. A FULL DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE PROJECT BEGINNING/END AND AT ALL RAMP APPROACHES AS DENOTED ON THE PROJECT PLANS OR AS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER.
5. GRASS GROWING ADJACENT TO PAVEMENT, OR THROUGH CRACKS IN THE PAVEMENT, WHICH MAY HAMPER THE PLACEMENT OF NEW BITUMINOUS CONCRETE, SHALL BE REMOVED BY THE CONTRACTOR, AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK WILL NOT BE MADE DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-34).
6. 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 402.12, AGGREGATE SHOULDER (MOD.).
7. ITEM 616.47, BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS WILL BE PAID ONLY WHERE SPECIFIED IN THE PROJECT PLANS OR AT ALL OTHER LOCATIONS DIRECTED BY THE RESIDENT ENGINEER. ALL OTHER BITUMINOUS CONCRETE PAVEMENT WORK, WHICH COULD INVOLVE SOME HAND-WORK (SUCH AS AROUND DRAINAGE/UTILITY STRUCTURES) SHALL BE PAID FOR AT THE CONTRACT PRICE FOR ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
8. AREAS ADJACENT TO THE SHOULDER, WHERE EXISTING GUARDRAIL IS BEING RETAINED, THAT HAVE BUILT UP EXCESS MATERIAL ARE TO BE GRADED IN ORDER TO ALLOW THE SHOULDER TO DRAIN, PAYMENT IS UNDER ITEM 203.99, SHOULDER BERM REMOVAL.
9. ESTIMATED QUANTITIES OF ITEM 608.25, EXCAVATOR RENTAL AND 608.37, TRUCK RENTAL HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL FLARES WITH EARTH BORROW. THE GUARDRAIL FLARES SHALL BE CAPPED WITH AN ESTIMATED 75mm DEPTH OF AGGREGATE SHOULDER MATERIAL (MOD.), OR AS DIRECTED BY THE RESIDENT ENGINEER. THE QUANTITIES INCLUDED REFLECT 5 TONS OF AGGREGATE SHOULDER MATERIAL (MOD.) AND 20 CUBIC METERS OF EARTH BORROW FOR EACH GUARDRAIL TERMINAL.
10. ALL COLD PLANE GRINDINGS TO REMAIN THE PROPERTY OF THE STATE OF VERMONT AND TO BE USED ON THE PROJECT FOR SHOULDER BACKING PAYABLE UNDER ITEM 402.12 AGGREGATE SHOULDERS (MOD.). THE CONTRACTOR SHALL LOAD EXCESS MATERIAL ONTO SUITABLE TRANSPORT AND DELIVER THEM TO THE STATE OF VERMONT MAINTENANCE FACILITIES IN BRADFORD AND NEWBURY, THE CONTRACTOR SHALL CONTACT DISTRICT #7 ADMINISTRATOR RICH TETREAULT AT (802) 748-6670 AT LEAST TWO WEEKS PRIOR TO DELIVERY TO COORDINATE ACCESS. ETC. THE STATE OF VERMONT WILL PROVIDE THE LOCATION, EQUIPMENT, AND PERSONNEL TO STOCKPILE THESE MATERIALS. ALL COSTS WILL NOT BE PAID DIRECTLY BUT WILL BE CONSIDERED SUBSIDIARY TO THE ITEM UNDER WHICH THEY WERE REMOVED.



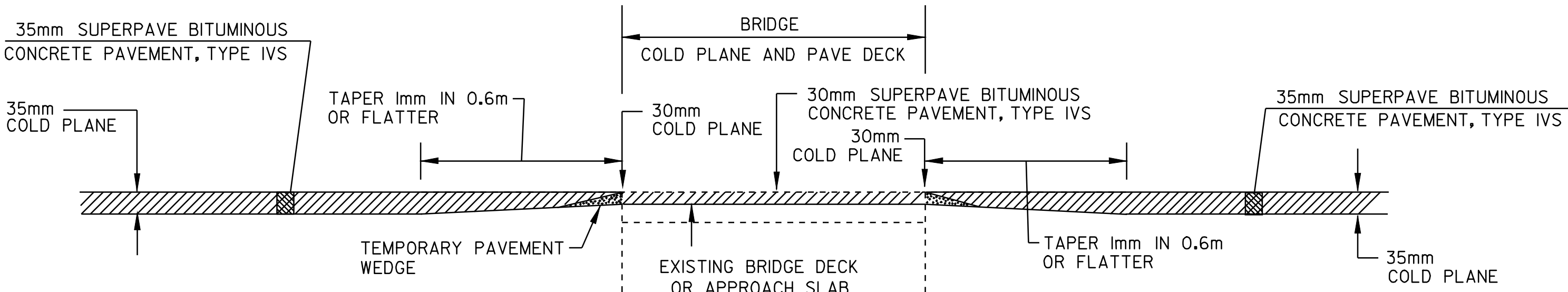
MAINLINE APPROACH AREA DETAIL

LOCATION

STA 158+359.440 - BEGINNING OF PROJECT
STA 168+981.120 - END OF PROJECT



- TYPICAL SECTION AT GUARDRAIL -
(EXISTING STEEL BEAM W/TIMBER CURBING)



COLD PLANE DETAIL @ BRIDGES

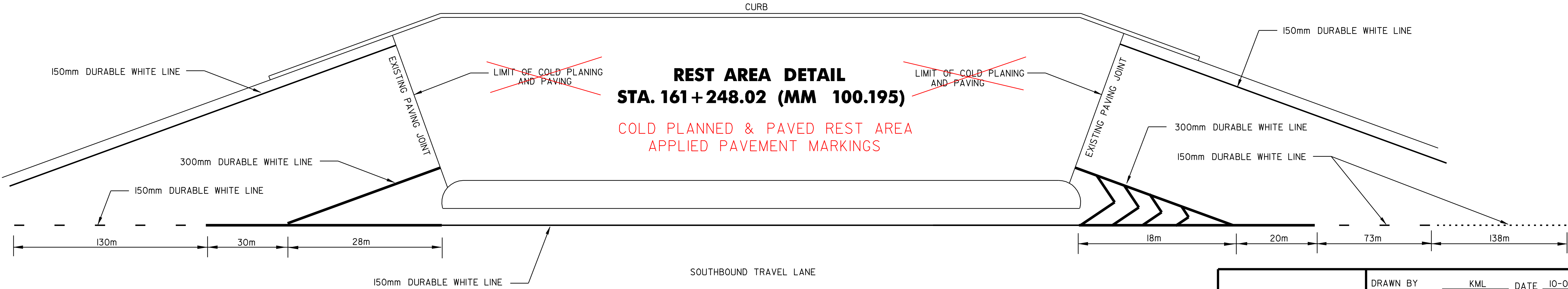
LOCATION

SOUTHBOUND

BRIDGE #61-S, STA 158+413.09 (MM 98.433)
BRIDGE #63-S, STA 166+574.10 (MM 103.504)

NOTES: REFER TO SHEET 4 FOR ASPHALTIC PLUG JOINT LOCATIONS AND DETAILS.

SPECIAL PRECAUTIONS MUST ALSO BE TAKEN DURING THE REMOVAL OF PAVEMENT FROM AREAS ADJACENT TO FINGER OR PLATE JOINTS.
SPECIAL PRECAUTIONS MUST BE TAKEN TO PREVENT DAMAGE TO THE EXISTING MEMBRANE ON BRIDGE 61-S & 63-S.
THE CONTRACTOR SHALL PERFORM COLD PLANING WITH CAUTION AT THIS LOCATION. ANY DAMAGE WHICH OCCURS TO THIS MEMBRANE AS A RESULT OF COLD PLANE OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE MEMBRANE WILL BE REPAIRED OR REPLACED AT NO COST TO THE STATE.



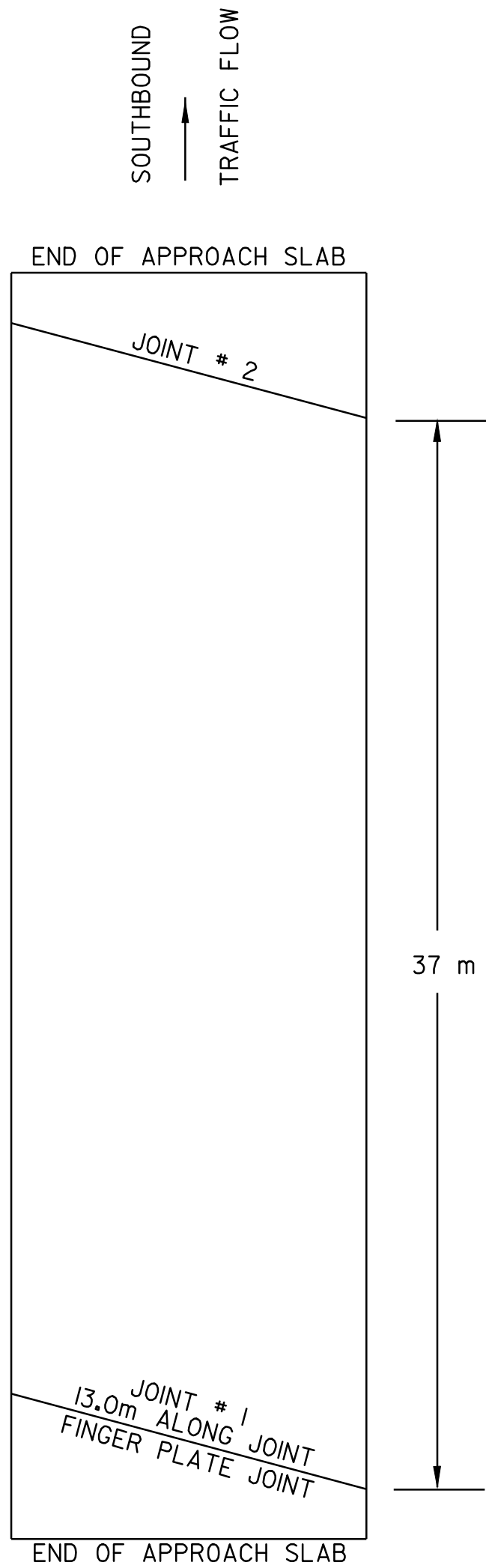
PROJECT
TYPICAL
SHEET #2

DRAWN BY KML DATE 10-02
DESIGN FILE NO. /pave/03a022/03a022.dgn
PRF FILE 03a022+y2.1 DATE 08-NOV-2005 14:00
PROJ. NAME BRADFORD - NEWBURY
PROJ. NO. IM 091-2(18)
SHEET 3 OF 9 SHEETS

NOT TO SCALE

JOINT	STATION	LENGTH (m)
1	158+414.78	13
2	158+377.64	13
BRIDGE 61-S TOTAL LENGTH OF JOINT		26

12.5



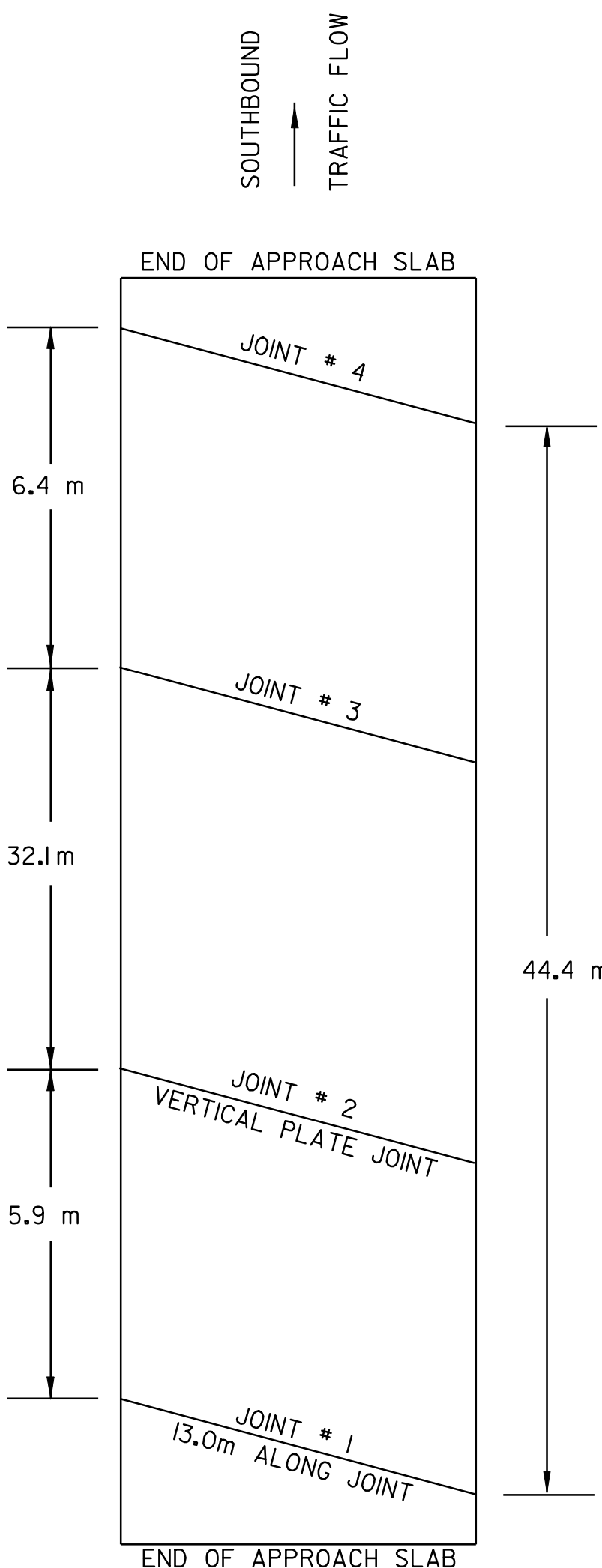
BRIDGE 61-S STA. 158+413.09 (MM 98.433)
ONE PLUG JOINT REQUIRED, COLD PLANE UP TO AND BEYOND FINGER PLATE JOINT

JOINT	STATION	LENGTH (m)
1	166+664.06	13
2	166+658.16	13
3	166+626.02	13
4	166+619.64	13
BRIDGE 63-S TOTAL LENGTH OF JOINT		52

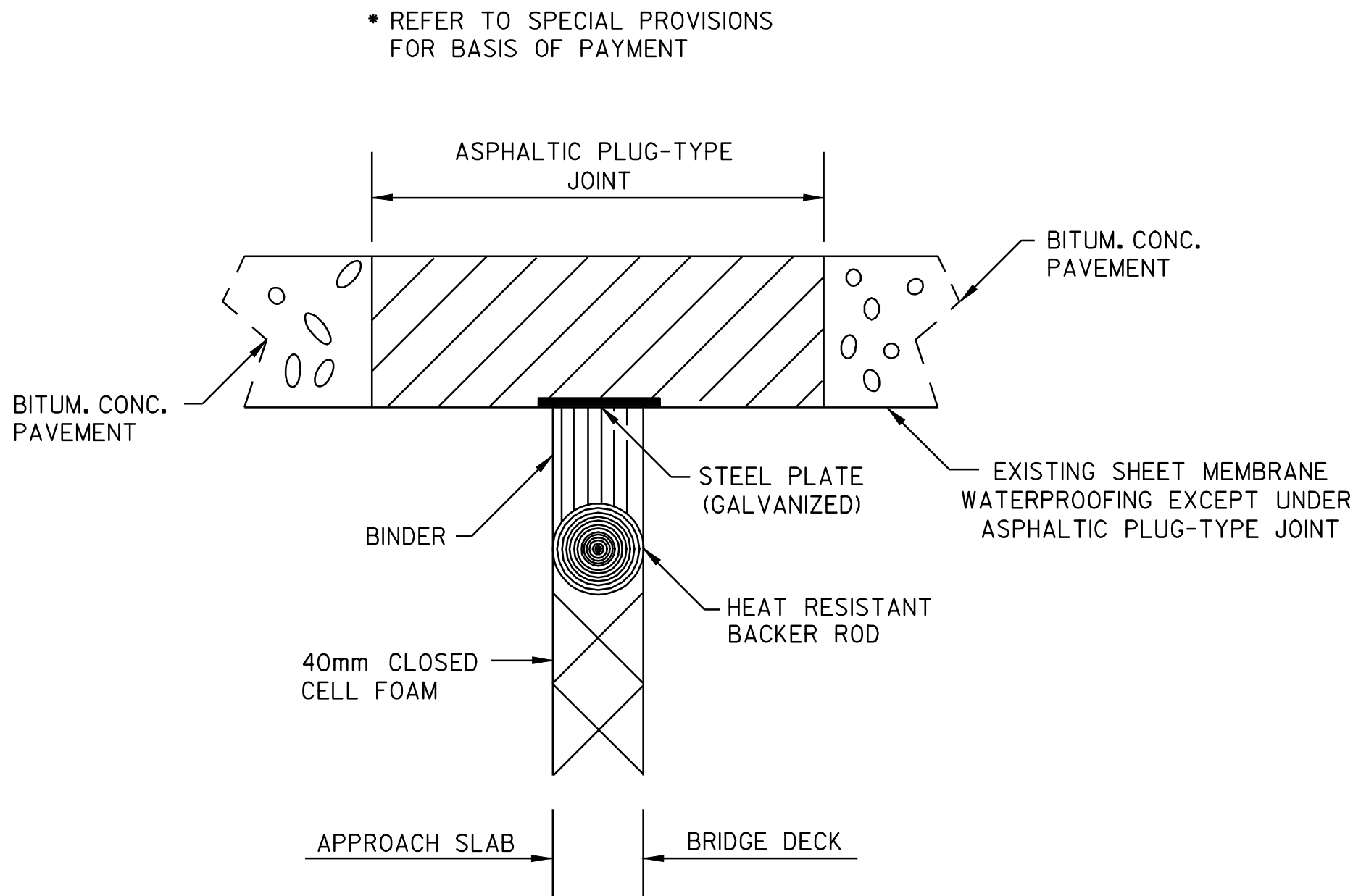
14.1

13.8

13.8



BRIDGE 63-S STA. 166+574.10 (MM 103.504)
THREE PLUG JOINTS REQUIRED, COLD PLANE UP TO AND BEYOND VERTICAL PLATE JOINT



- ASPHALTIC PLUG TYPE JOINT DETAIL -

**ITEM 516.10 BRIDGE EXPANSION JOINT
(ASPHALTIC PLUG JOINT)
SUMMARY OF QUANTITY**

BRIDGE NUMBER	LENGTH (m)
BRIDGE 61-S	13.0
BRIDGE 63-S	39.0
ROUNDING	3.0
ITEM TOTAL	55.0

NOT TO SCALE
ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDICATED



BRIDGE LOCATION & DETAIL SHEET	DESIGNED BY	KML	DATE	10-02
	DRAWN BY	KML	DATE	10-02
	DESIGN FILE NO.	pave/03a022/03a022.dgn		
	PRF FILE	03a022bps.1	DATE PLOTTED	08-NOV-2005 14:45
	PROJ. NAME	BRADFORD - NEWBURY		
	PROJ. NO.	IM 091-2(18)		
	SHEET	4	OF	9 SHEETS

STATE OF VERMONT
 AGENCY OF TRANSPORTATION

QUANTITY SHEET



APPROXIMATE SUMMARY OF QUANTITIES									
	NON-FEDERAL PARTIC.	EMPLOYEE TRAINEESHIP	GOV'T PARTICIPATING		QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
			BRIDGE	ROADWAY					
					160	m ³	EARTH BORROW	203.30	
					1000	M	SHOULDER BERM REMOVAL	203.99	EST
					1	m ³	TRENCH EXCAVATION OF EARTH (N.A.B. I.)	204.20	
					129,590	m ²	COLD PLANING - BITUMINOUS PAVEMENT	210.10	
					21,035	M	MILLED RUMBLE STRIPS	213.10	
					1645	T	AGGREGATE SHOULDERS (MOD.)	402.12	
					15,550	KG	EMULSIFIED ASPHALT	404.65	
					1	W	PRICE ADJUSTMENT ASPHALT CEMENT (N.A.B. I.)	406.50	
					10,885	T	SUPERPAVE BITUM. CONC. PAVEMENT (PG 58-34)	490.30	
			55		55	M	BRIDGE EXPANSION JOINT (ASPHALTIC PLUG JOINT)	516.10	3
					17	EA	REHABILITATION OF D.I., C.B. OR M.H., CLASS I	604.412	
					160	HR	POWER GRADER RENTAL	608.15	EST
					160	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST
					110	HR	POWER BROOM RENTAL	608.30	EST
					160	HR	TRUCK RENTAL	608.37	EST
					160	HR	LOADER RENTAL, TYPE I	608.40	EST
					75	HR	LOADER RENTAL, TYPE II (MOD.)	608.41	
					200	M	TREATED TIMBER CURB	616.35	EST
			160		160	M	SNOW FENCE	620.70	
					535	M	STEEL BEAM GUARDRAIL	621.20	EST
					6	EA	MANUFACTURED TERMINAL SECTION (FLARED)	621.505	EST
					2	EA	TRAILING END TERMINAL	621.52	
					2	EA	ANCHOR FOR STEEL BEAM GUARDRAIL	621.60	
					25	EA	ANCHOR FOR CABLE RAIL (MOD. 1)	621.65	EST
					200	EA	ANCHOR FOR CABLE RAIL (MOD. 2)	621.65	EST
					50	EA	REPLACE GUARDRAIL POST ASSEMBLY	621.76	EST
					50	EA	REPLACE GUARDRAIL BEAM UNIT	621.77	EST
					100	M	REPLACE GUARDRAIL CABLE (MOD.)	621.78	EST
					50	M	ADJUST HEIGHT OF GUARDRAIL	621.79	4.4
					620	M	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	1.6
					640	HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST
					960	HR	FLAGGERS	630.15	EST
					1	LS	FIELD OFFICE - ENGINEERS	631.10	--
					1	LS	TESTING EQUIPMENT - BITUMINOUS	631.17	--
					1	W	FIELD OFFICE - TELEPHONE (N.A.B. I.)	631.25	--
					1	LS	MOBILIZATION	635.10	EST
					1	LS	TRAFFIC CONTROL	641.10	EST
					2	EA	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	--
					14,100	M	DURABLE 150 MM WHITE LINE	646.414	
					13,700	M	DURABLE 150 MM YELLOW LINE	646.415	
					150	M	DURABLE 300 MM WHITE LINE	646.44	
					14,100	M	TEMPORARY 150 MM WHITE LINE	646.614	
					13,700	M	TEMPORARY 150 MM YELLOW LINE	646.615	
					150	M	TEMPORARY 300 MM WHITE LINE	646.64	
					885	EA	LINE STRIPING TARGETS	646.76	EST
					20	KG	SEED	651.15	EST
					150	KG	FERTILIZER	651.18	EST
					1	T	AGRICULTURAL LIMESTONE	651.20	EST
					1	T	HAY MULCH	651.25	EST
					20	m ³	TOPSOIL	651.35	EST
					8	EA	DELINEATORS W/STEEL POSTS	676.10	

[illegible][illegible]

STATIONS		PAVEMENT WIDTHS			EQUATIONS		meters	kilometers	REMARKS
FROM	TO				+	-			
TOTALS									

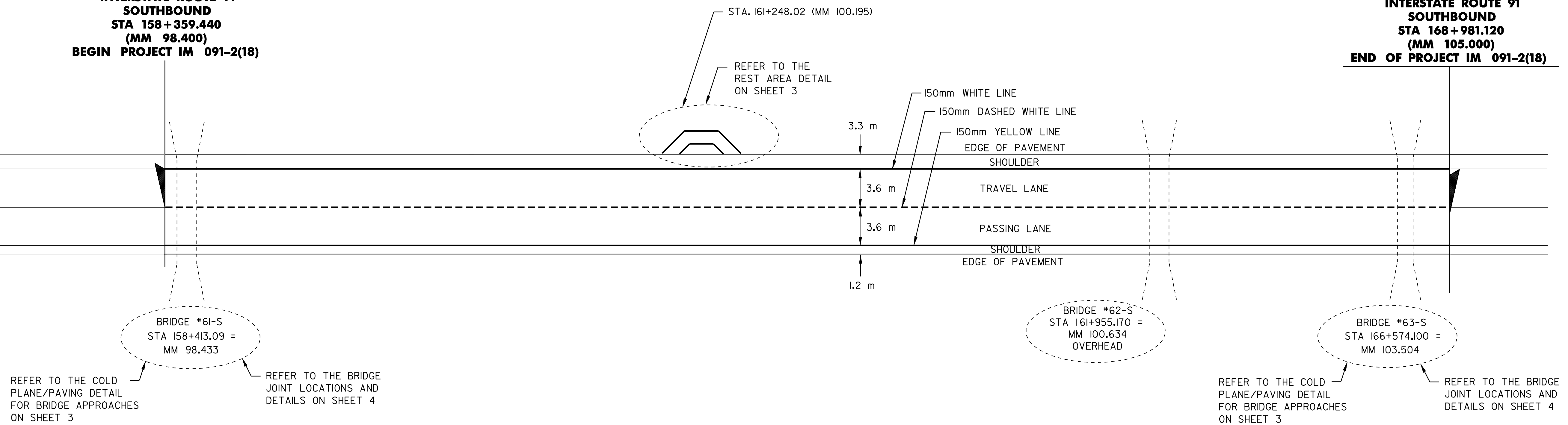


**INTERSTATE ROUTE 91
SOUTHBOUND
STA 158+359.440
(MM 98.400)
BEGIN PROJECT IM 091-2(18)**

TEMPORARY AND DURABLE 150mm WHITE LINE	
STA 158+359.440 TO 168+981.120	SOLID LT
STA 158+359.440 TO 168+981.120	DASHED C.L.

TEMPORARY AND DURABLE 150mm YELLOW LINE
STA 158+359.440 TO 168+981.120 SOLID RT

**INTERSTATE ROUTE 91
SOUTHBOUND
STA 168+981.120
(MM 105.000)
END OF PROJECT IM 091-2(18)**



LOCATION (MILEMARK STATIONS)			203.30	203.99	402.12	604.412	616.47	621.505	621.52	621.60	621.76	621.77	621.79	621.80	REMARKS
STATION	STATION	POS.	EARTH BORROW m ³	SHLD. BERM REMOVAL m	AGGR. SHLD. (MOD.) TON	REHAB. D.I. CLASS I EACH	BITUM. CONC. GUTTERS TON	MAN. TERM. SECTION (FLARED) EACH	TRAILING END TERMINAL EACH	ANCHOR FOR S.B.G.R. EACH	REPLACE POST ASSEM. EACH	REPLACE BEAM UNIT EACH	ADJUST HEIGHT G.R. m	REMOVAL & DISP. OF G.R. m	
98.50		RT	20		5			I ✓					7.6 ✓	15.4 ✓	REMOVE EXISTING MELT AND ONE PANEL OF GUARDRAIL INSTALL NEW MTS. ✓ ADJUSTED HEIGHT PANEL OK
98.51		LT	20		5			I ✓					7.6 ✓	15.4 ✓	REMOVE EXISTING MELT AND ONE PANEL OF GUARDRAIL INSTALL NEW MTS. ✓ HEIGHT OK
99.07	99.41	RT	40		10			I ✓	I ✓	I ✓		14	63	550	INSTALL NEW STEEL BEAM GUARDRAIL, NEW MTS AT MM 99.41RT, NEW TRAILING END TERMINAL W/ANCHOR AT MM 99.07 RT. 621.20 232.4M
														255.4	
101.08		LT	20		5				I ✓	I ✓	8		7.6 ✓	11.4 ✓	REMOVE EXISTING TWISTED END TERMINAL, INSTALL HEIGHT NEW END TERMINAL & ANCHOR AS PER STD G-IDM.
101.20		LT	20		5			I ✓					7.6 ✓	15.2 ✓	REMOVE EXISTING MELT AND ONE PANEL OF GUARDRAIL INSTALL NEW MTS. ✓ HEIGHT OK 621.20 3.8M
103.60		RT	20		5			I ✓					7.6 ✓	15.1.4 ✓	REMOVE EXISTING MELT AND ONE PANEL OF GUARDRAIL INSTALL NEW MTS. ✓ HEIGHT OK
103.60		LT	20		5			I ✓					7.6 ✓	15.1.4 ✓	REMOVE EXISTING MELT AND ONE PANEL OF GUARDRAIL INSTALL NEW MTS. ✓ HEIGHT OK PANEL OK
98.40	105.00	RT/LT		1000	1605	17.18					50	50			ESTIMATED QUANTITIES TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER.
159 + 047 (98.83 - 98.95)	159 + 250	RT									13				CABLE RAIL NO J-BOLTS REPLACED
159 + 862 (99.33 + 99.62)	160 + 321	LT									19		208		CABLE RAIL REPLACED 9 J-BOLTS ON EXISTING POSTS PD. UNDER 621.65 (MOD.2)
160 + 971 (100.02 + 100.27)	161 + 377	RT									14				CABLE RAIL REPLACED 3 J-BOLTS ON EXISTING POSTS PD. UNDER 621.65 (MOD.2)
163 + 068 (101.33 + 101.39)	163 + 179	LT									7				CABLE RAIL NO J-BOLTS REPLACED
166 + 261 (103.31 + 103.50)	166 + 567	RT									9				CABLE RAIL REPLACED 5 J-BOLTS ON EXISTING POSTS PD. UNDER 621.65 (MOD.2)
166 + 386 (103.39 + 103.50)	166 + 573	LT									2				CABLE RAIL REPLACED 1J-BOLT ON EXISTING POSTS PD. UNDER 621.65 (MOD.2)
													278.6		
SUBTOTALS			160	1000	1645	17.18		6 ✓	2 ✓	2 ✓	50.72	50.14	45.6	618.4	
ROUNDING													4.4	1.6	
PROJECT TOTALS			160	1000	1645	17.18		6 ✓	2 ✓	2 ✓	50.72	50.14	50	620	327.6

SHOULDER BERM REMOVAL

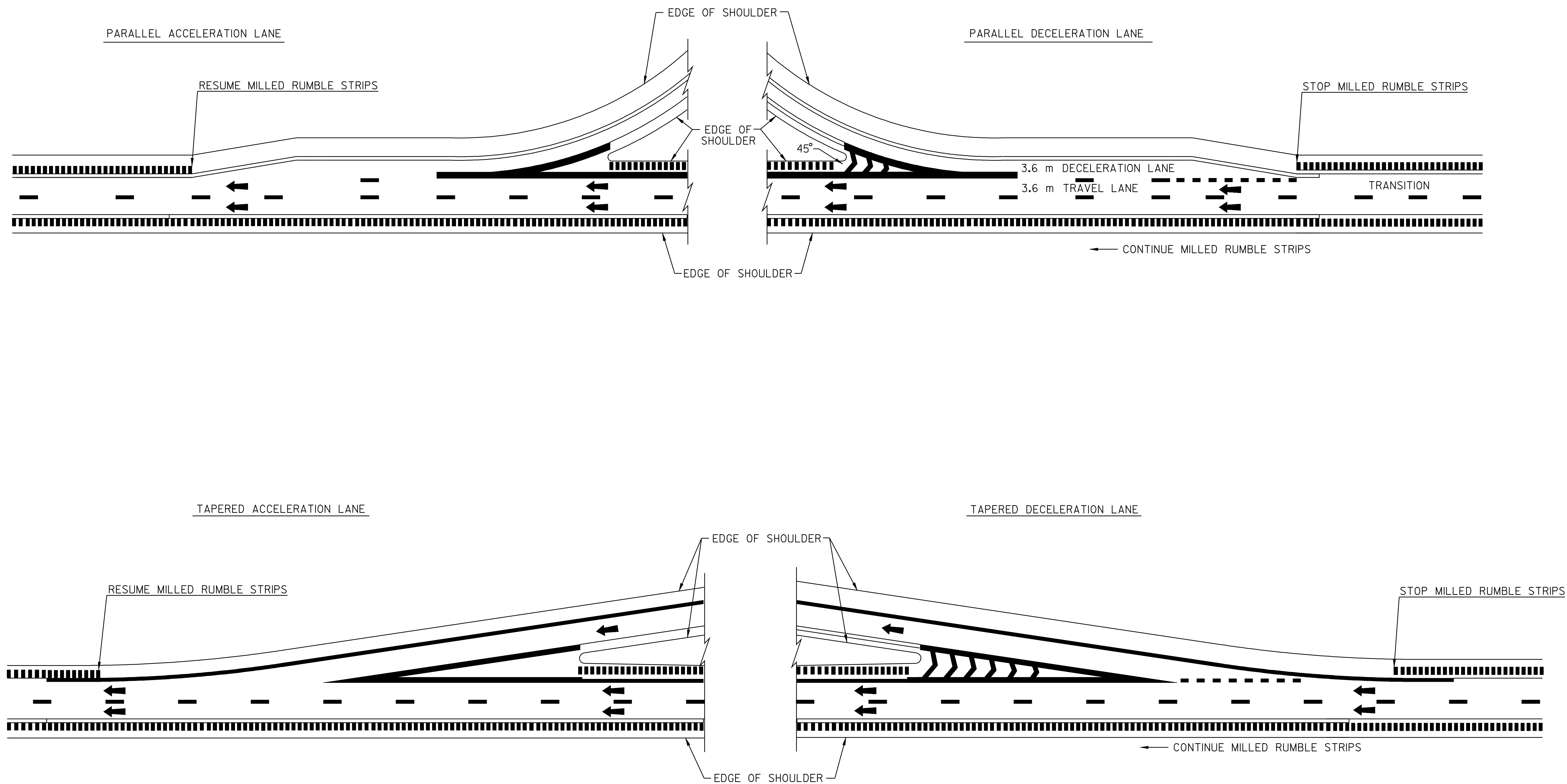
158 + 370 - 158 + 415 RT	45
158 + 380 - 158 + 420 LT	40
158 + 473 - 158 + 501RT	3
158 + 489 - 158 + 518 LT	29
159 + 047 - 159 + 250 RT	203
160 + 321- 159 + 862 LT	459
160 + 921- 160 + 971RT	50
162 + 665 - 162 + 681 LT	16
163 + 068 - 163 + 179 RT	III
	98IM

NOT TO SCALE

PAVING PROJECT LAYOUT (SOUTHBOUND)

DESIGNED BY KML DATE 10-02
DRAWN BY KML DATE 10-02
DESIGN FILE NO. pave/03a022/03a022.dgn
PRF FILE 03a022p01.i DATE 08-NOV-2005 14
PROJ. NAME **BRADFORD - NEWBURY**
PROJ. NO. **IM 091-2(18)**
SHEET **6** OF **9** SHEETS

TYPICAL MILLING AT INTERCHANGES & REST AREAS



AS PER PLAN

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

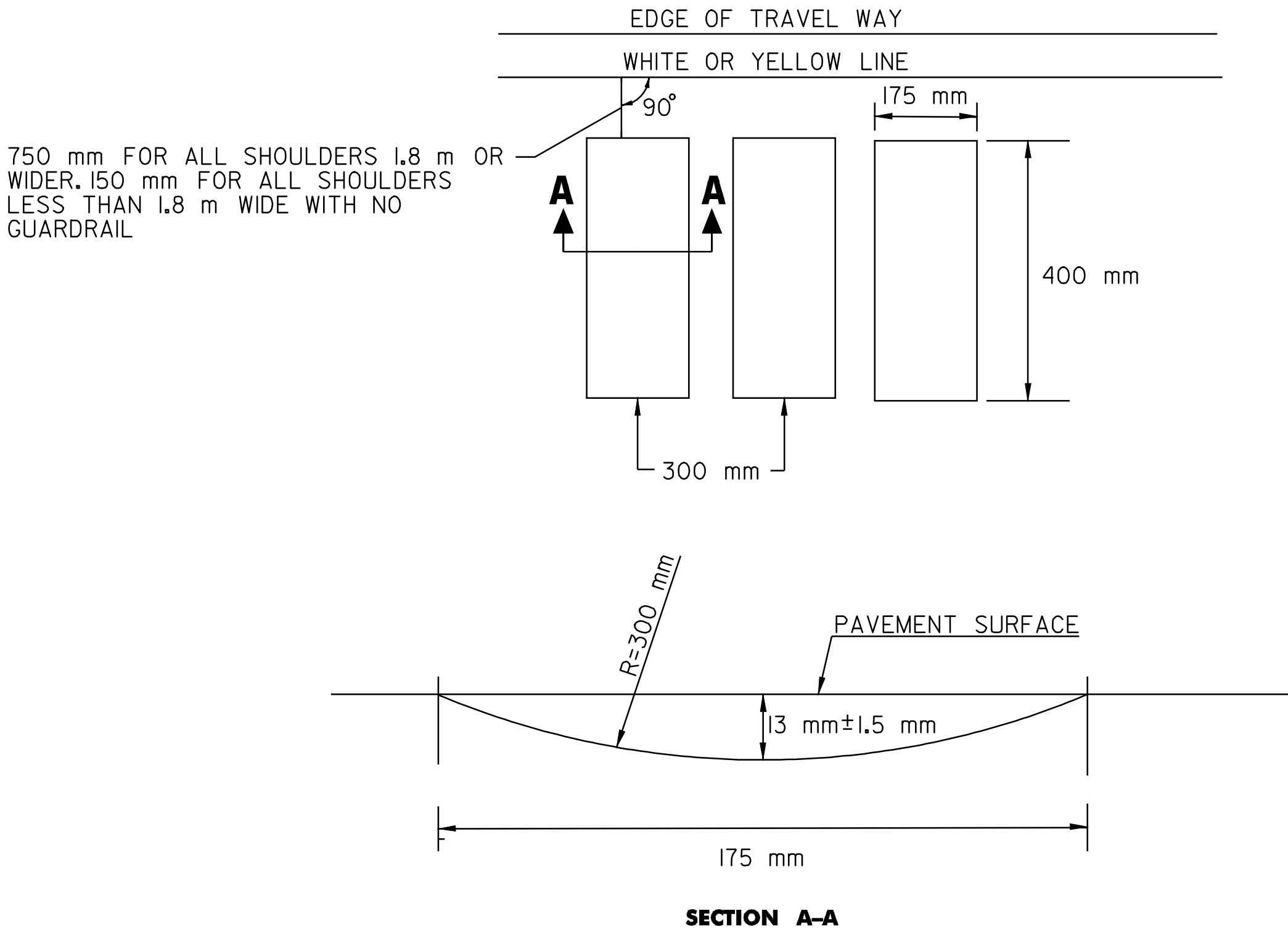
LEGEND

← DIRECTION OF TRAFFIC FLOW
..... MILLED RUMBLE STRIPS

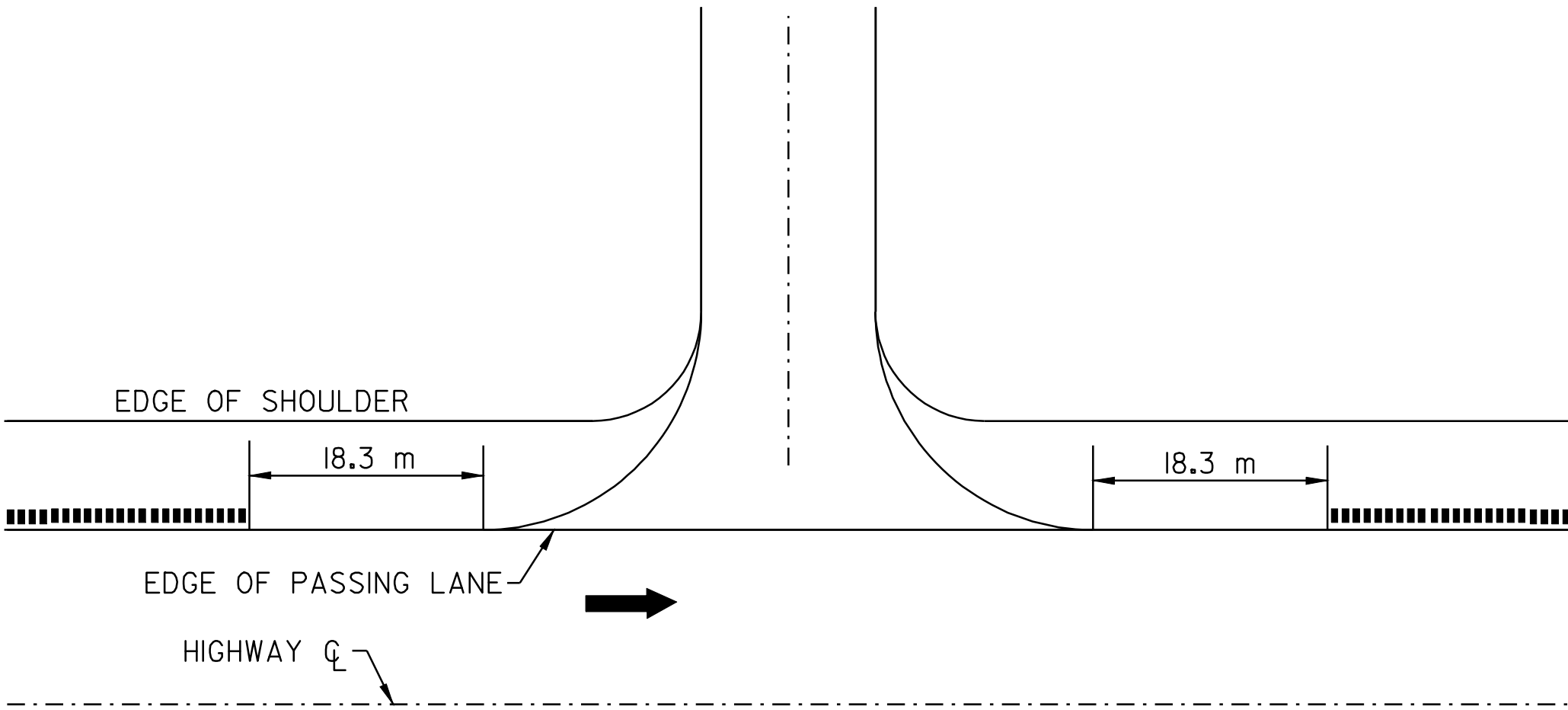
MILLED RUMBLE STRIP DETAIL SHEET #1

DESIGNED BY KML DATE 10-02
DRAWN BY KML DATE 10-02
DESIGN FILE NO. /pave/03a022/03a022.dgn
PRF FILE 03a022rsl.i DATE 08-NOV-2005 14:00
PROJ. NAME BRADFORD - NEWBURY
PROJ. NO. IM 091-2(18)
SHEET 7 OF 9 SHEETS

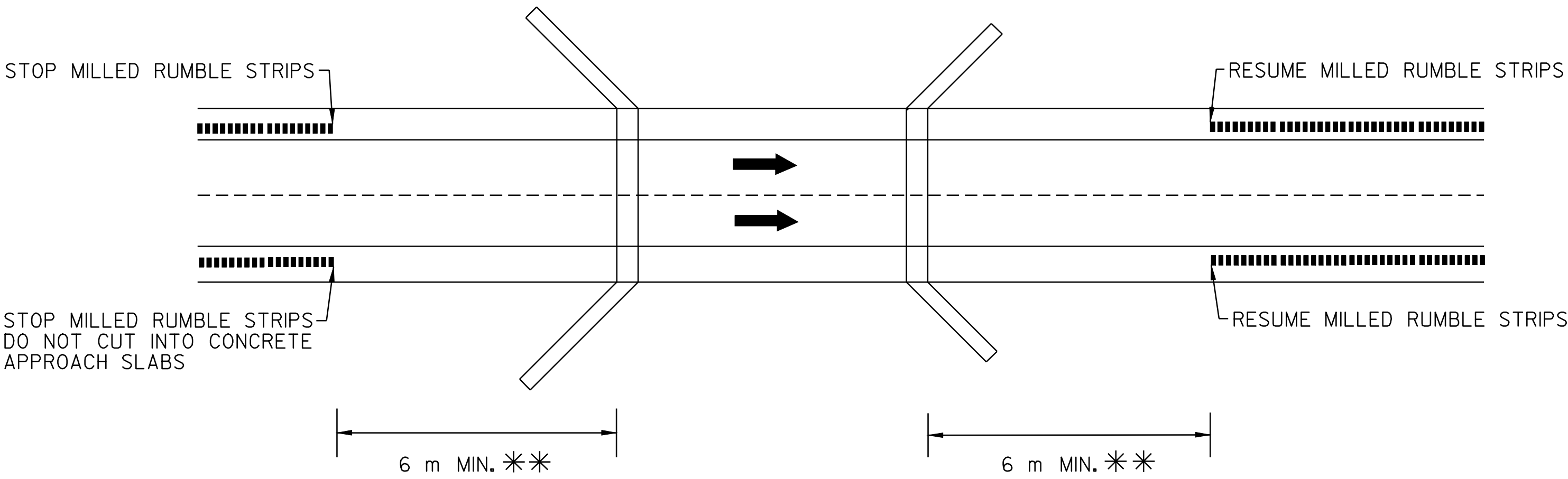
TYPICAL MILLING DETAIL



U-TURN DETAIL



BRIDGE DETAIL



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

AS PER PLAN

NOTE:

MILLED RUMBLE STRIPS WILL NOT BE REQUIRED IN GUARDRAIL AREAS ADJACENT TO THE 1.2 m SHOULDER.

MILLED RUMBLE STRIP DETAIL SHEET #2

DESIGNED BY	KML	DATE	10-02
DRAWN BY	KML	DATE	10-02
DESIGN FILE NO.	pave/03a022/03a022.dgn		
PRF FILE	03a022rs2.1	DATE PLOTTED	08-NOV-2005 14:45
PROJ. NAME	BRADFORD - NEWBURY		
PROJ. NO.	IM 091-2(18)		
SHEET	8	OF	9 SHEETS

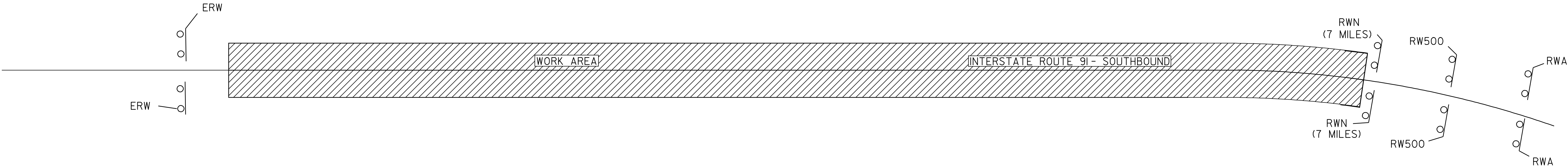
LEGEND

- ➔ DIRECTION OF TRAFFIC FLOW
■■■■■■ MILLED RUMBLE STRIPS

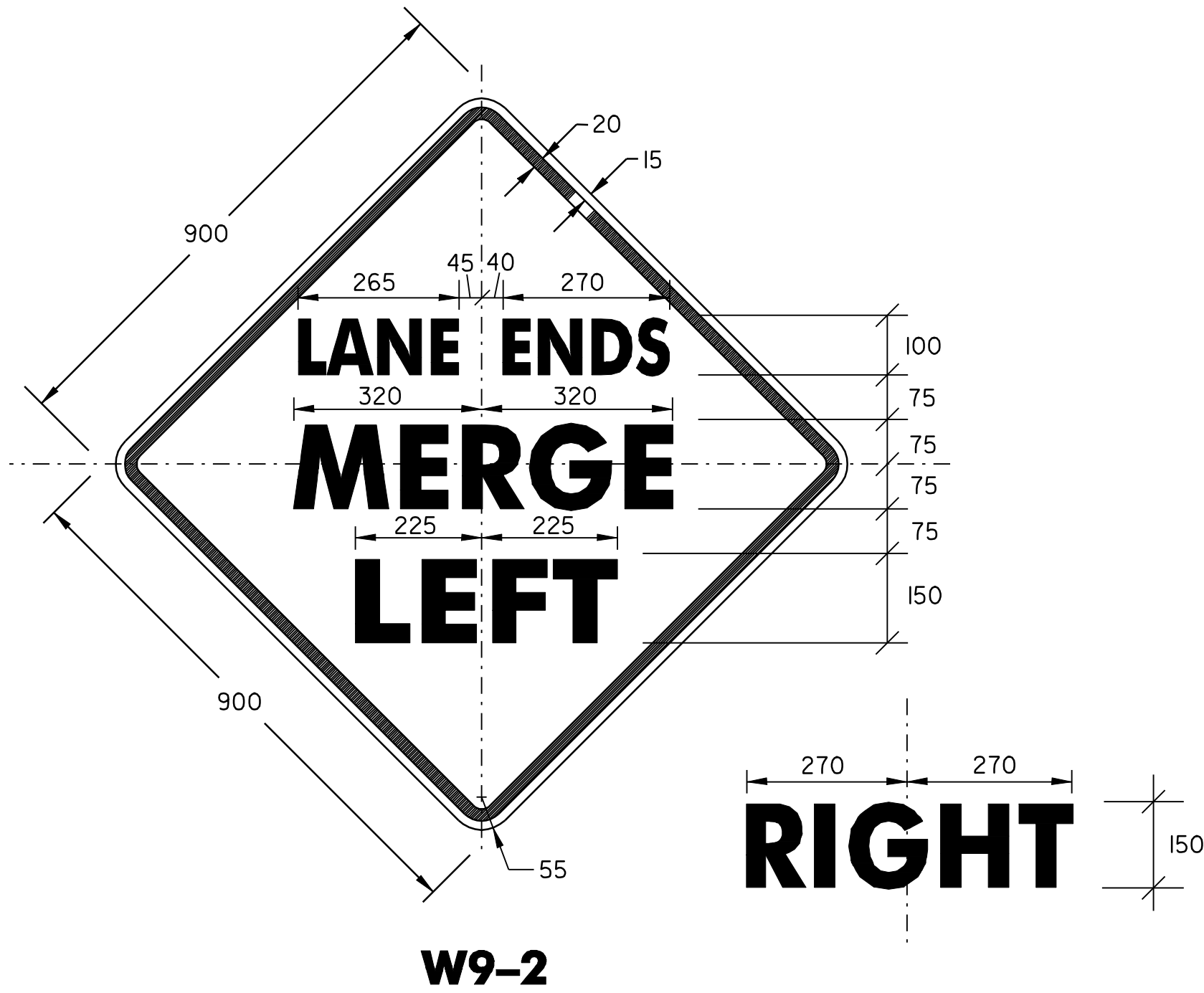
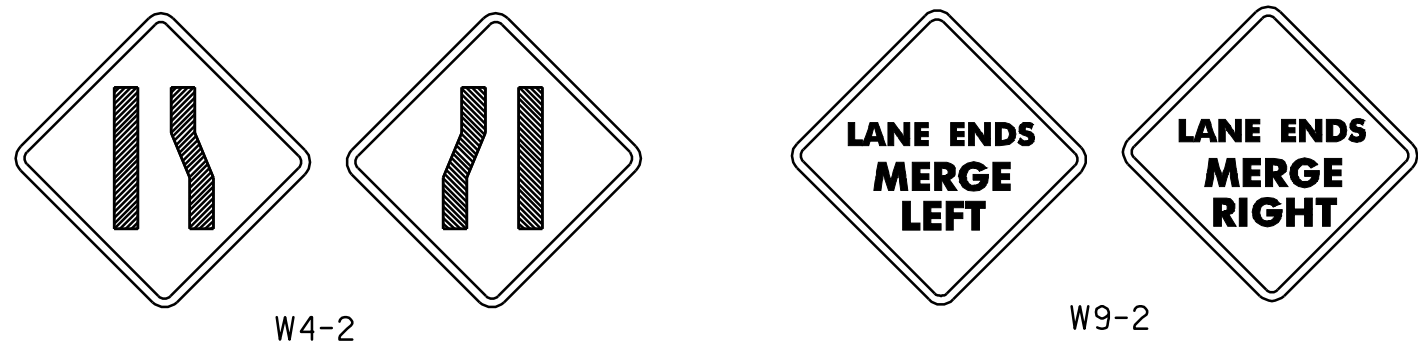
DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

CONSTRUCTION APPROACH SIGNING

SEE STD. E-100M FOR SIGN PLACEMENT



- NOTES:
- ADDITIONAL SIGNING MAY BE REQUIRED AS DIRECTED BY THE RESIDENT ENGINEER.
 - THE BID PRICE FOR TRAFFIC CONTROL, ITEM 641.0, SHALL INCLUDE ALL APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, BARRIERS, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN STANDARD E-103M, MAINLINE TRAFFIC CONTROL - DIVIDED HIGHWAY. ALL ADJUSTING, RELOCATING, AND REMOVING OF THESE DEVICES AS DIRECTED BY THE RESIDENT ENGINEER, SHALL ALSO BE INCLUDED. THE FOLLOWING ITEMS WILL BE PAID UNDER THEIR SPECIFIC BID PRICES:
646.614, 646.615 AND 646.64 - TEMPORARY PAVEMENT MARKINGS
630.10, AND 630.15 - UNIFORMED TRAFFIC OFFICERS AND FLAGGERS
 - PORTABLE CHANGEABLE MESSAGE SIGNS WILL BE PROVIDED FOR USE ALONG THIS PROJECT. THE PLACEMENT OF THESE MESSAGE SIGNS AS WELL AS THEIR MESSAGE WILL BE APPROVED BY THE RESIDENT ENGINEER. THIS QUANTITY IS PAID FOR AS ITEM 641.15, PORTABLE CHANGEABLE MESSAGE SIGN.
 - ON STANDARD E-103M, REPLACE SIGN #W4-2 WITH #W9-2:



AS PER PLAN

- LEGEND
- RWA = ROAD WORK AHEAD
 - RW500 = ROAD WORK 500 FEET
 - RWN = ROAD WORK NEXT 7 MILES
 - ERW = END ROAD WORK
 - SRWA = SIDE ROAD WORK AHEAD
 - SRW500 = SIDE ROAD WORK 500 FEET

NOTE: ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.

CONSTRUCTION APPROACH SIGNING

DESIGNED BY KML DATE 10-02
DRAWN BY KML DATE 10-02
DESIGN FILE NO. /pave/03a022/03a022.dgn
PRF FILE _03a022cas.1 DATE 08-NOV-2005 14
PROJ. NAME **BRADFORD - NEWBURY**
PROJ. NO. **IM 091-2(18)**
SHEET **9** OF **9** SHEETS

DATUM
VERTICAL N/A
HORIZONTAL N/A