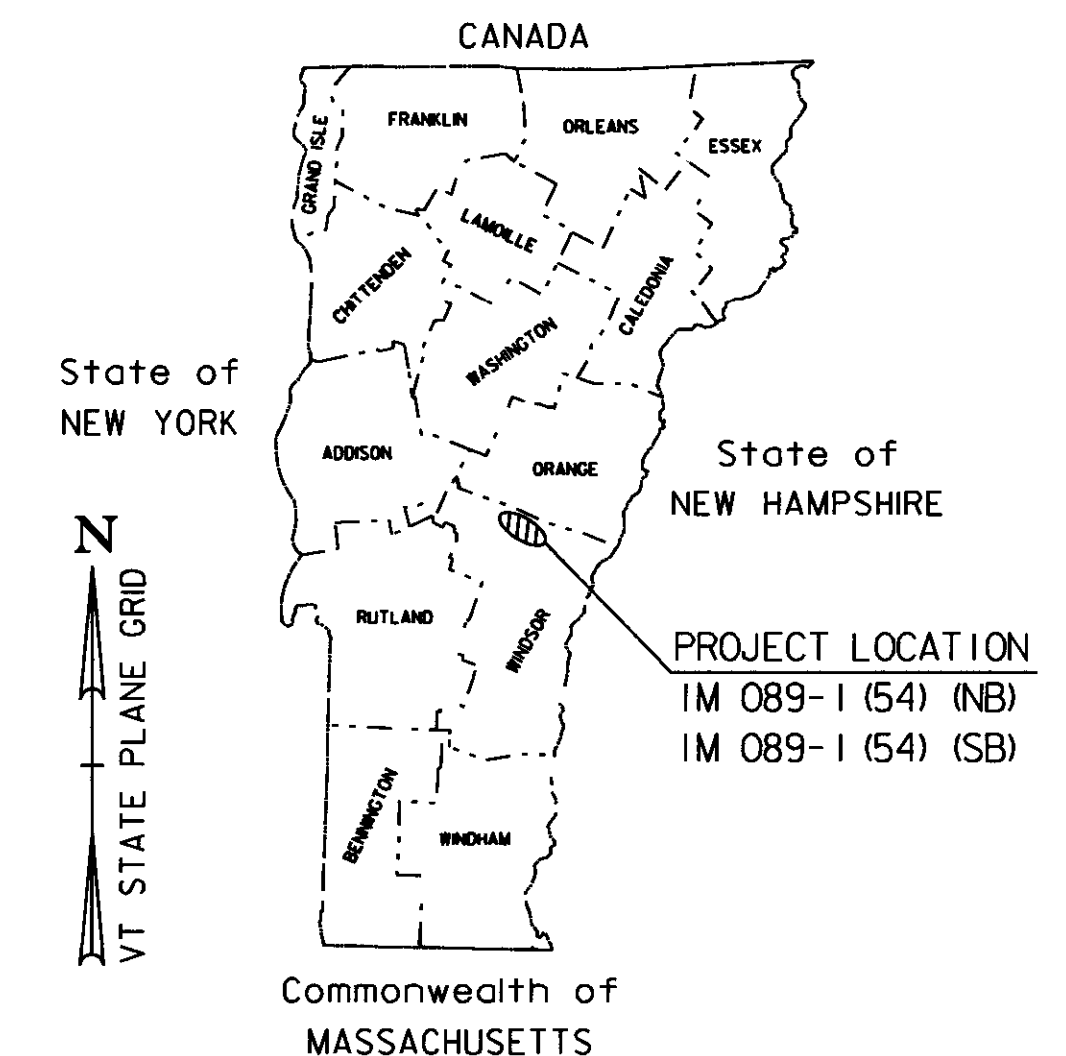


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SEE SHEET 2

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT TOWNS OF ROYALTON & BETHEL COUNTY OF WINDSOR INTERSTATE ROUTE 89 NB & 89 SB



RECORD PLANS	
CONTRACTOR	PIKE INDUSTRIES, INC - BERLIN, VT
RESIDENT ENGINEER	TOM CHASE
CONSTRUCTION BEGAN	APRIL 13, 2009
CONSTRUCTION COMPLETE	SEPTEMBER 17, 2009
RECORD PLANS BY	TOM CHASE & C. PIERCE
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN	
BY	<i>Thomas A. Chase</i> RESIDENT ENGINEER
DATE	06/04/10
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	

ROYALTON-BETHEL 1M 089-1 (54) (NB)
BEGINNING IN ROYALTON ON I-89 AT STATION 924+00 (MM 17.500) AND EXTENDING NORTHERLY A DISTANCE OF 41,369 FEET (7.835 MILES) TO STATION 1337+69 (MM 25.335) IN THE TOWN OF BETHEL.

ROYALTON-BETHEL 1M 089-1 (54) (SB)
BEGINNING IN ROYALTON ON I-89 AT STATION 924+00 (MM 17.500) AND EXTENDING NORTHERLY A DISTANCE OF 41,738 FEET (7.905 MILES) TO STATION 1341+38 (MM 25.405) IN THE TOWN OF BETHEL.

TRAFFIC DATA

BETWEEN EXITS 2 & 3 NB	
2009 ADT	= 7600
2009 DHV	= 1100
2019 ADT	= 9200
2019 DHV	= 1300
2009-2019 ESALS	= 9,376,000
2009-2029 ESALS	= 25,230,000
BETWEEN EXITS 3 & 4 NB	
2009 ADT	= 7700
2009 DHV	= 1100
2019 ADT	= 8100
2019 DHV	= 1100
2009-2019 ESALS	= 7,362,000
2009-2029 ESALS	= 18,603,000
BETWEEN EXITS 2 & 3 SB	
2009 ADT	= 8000
2009 DHV	= 1100
2019 ADT	= 9700
2019 DHV	= 1400
2009-2019 ESALS	= 8,750,000
2009-2029 ESALS	= 23,323,000
BETWEEN EXITS 3 & 4 SB	
2009 ADT	= 7600
2009 DHV	= 1100
2019 ADT	= 8000
2019 DHV	= 1100
2009-2019 ESALS	= 6,475,000
2009-2029 ESALS	= 16,346,000

PROJECT DATA

FROM	TO
924+00.00 (MM 17.500)	1337+69 (MM 25.335)
LENGTH OF ROADWAY = 7.835 MILES (41,369 FEET)	
LENGTH OF PROJECT = 7.835 MILES (41,369 FEET)	

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING AND RESURFACING OF THE NORTHBOUND LANES, NORTHBOUND INTERCHANGE RAMP AND MAINTENANCE U-TURNS WITH A LEVELING, WEARING COURSE, NEW PAVEMENT MARKINGS, GUARDRAIL, SIGNS, AND INCIDENTAL ITEMS AS SHOWN IN THE PROJECT QUANTITIES.

PROJECT DATA

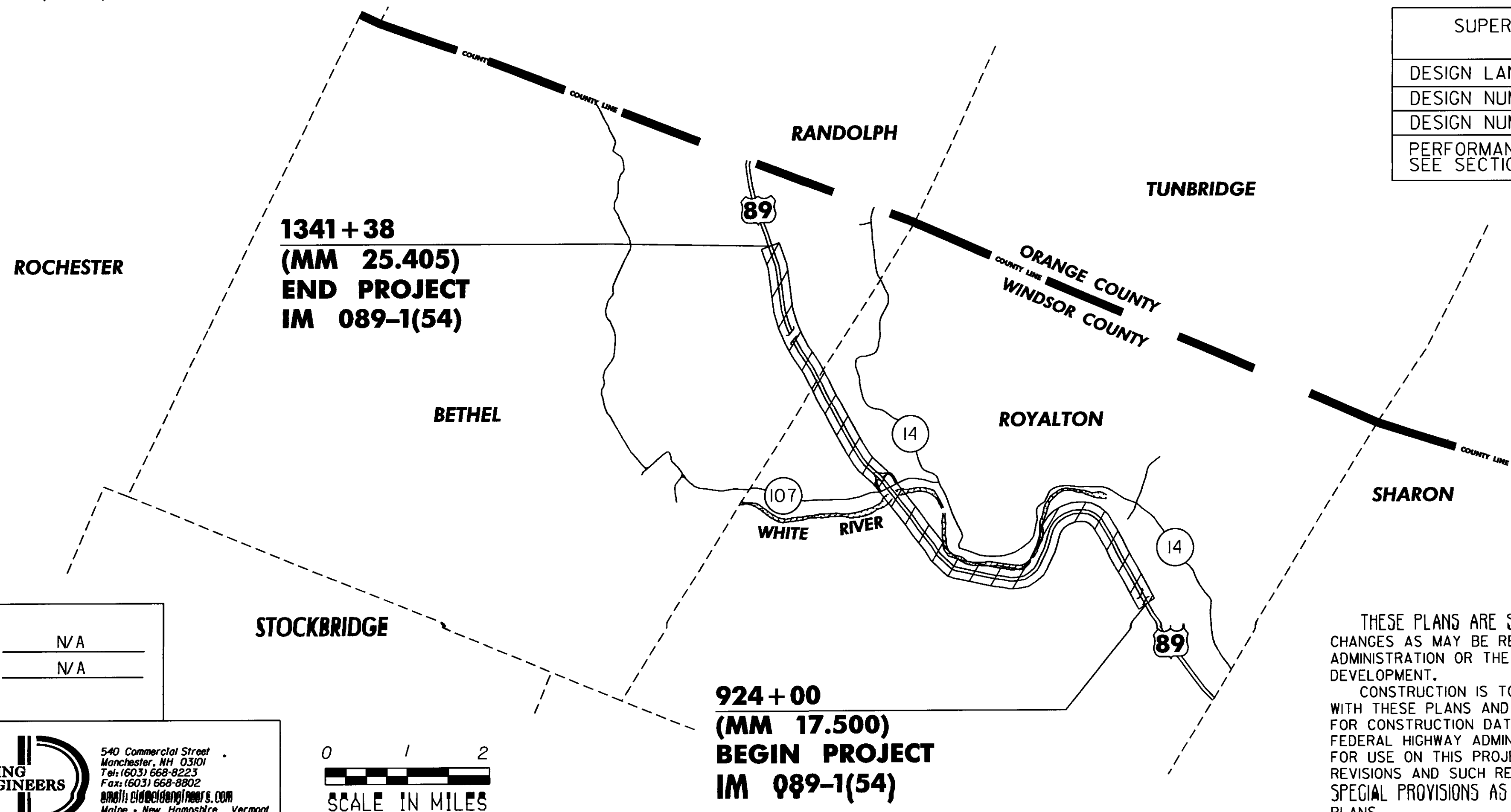
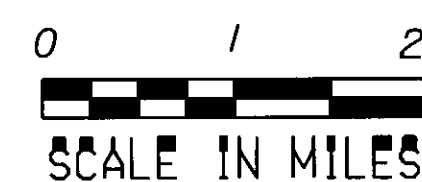
FROM	TO
924+00 (MM 17.500)	1341+38 (MM 25.405)
LENGTH OF ROADWAY = 7.905 MILES (41,738 FEET)	
LENGTH OF PROJECT = 7.905 MILES (41,738 FEET)	

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING AND RESURFACING OF THE SOUTHBOUND LANES AND SOUTHBOUND INTERCHANGE RAMP WITH A LEVELING, WEARING COURSE, NEW PAVEMENT MARKINGS, GUARDRAIL, SIGNS, AND INCIDENTAL ITEMS AS SHOWN IN THE PROJECT QUANTITIES.

SUPERPAVE BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESAL	23,323,000
DESIGN NUMBER OF GYRATIONS (NB)	80
DESIGN NUMBER OF GYRATIONS (SB)	80
PERFORMANCE GRADE ASPHALT BINDER SEE SECTION 490 GENERAL SPECIAL PROVISIONS	

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	

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A



UNLESS OTHERWISE NOTED, ALL DRAWINGS AND DETAILS OF THE PROJECT PLANS ARE NOT TO SCALE

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.

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATOR	
APPROVED	<i>Mark D. Richter</i> DATE 1-16-09
DIRECTOR OF PROGRAM DEVELOPMENT	
APPROVED	<i>John Thomas</i> DATE 12-11-08
PROJECT MANAGER:	TED DOMEY
PROJECT NAME :	ROYALTON-BETHEL
PROJECT NUMBER :	1M 089-1 (54)
SHEET 1 OF 37 SHEETS	

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 2006, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 15, 2006 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

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INDEX OF STANDARD PLANS

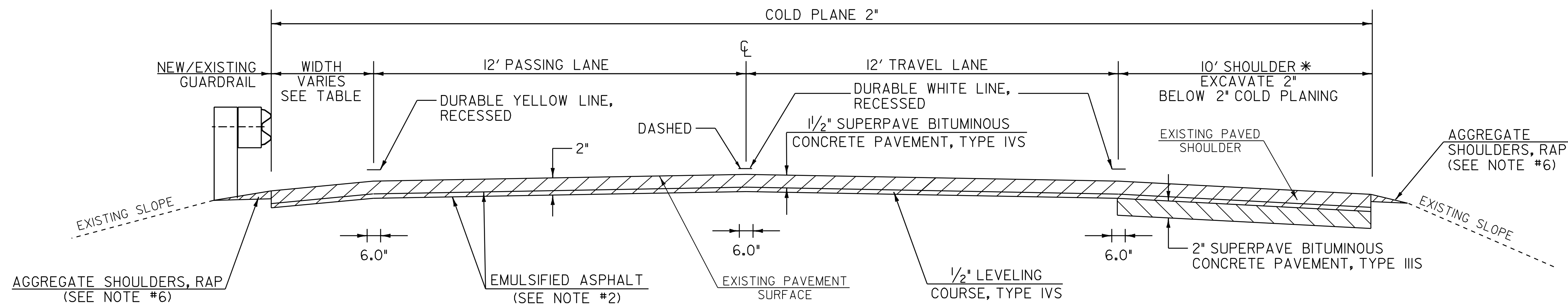
STD	DATE	DESCRIPTION
D-3	6/1/1994	TREATED GUTTERS
D-6	6/1/1994	REINFORCED CONCRETE DROP INLET W/GRATE (DITCHES)
D-10	6/1/1994	REINFORCED CONCRETE DROP INLET TOPS - BITUMINOUS CONCRETE CURB & GRANITE SLOPE EDGING
D-15	6/1/1994	PRECAST REINF. CONC. CATCH BASIN W/CAST IRON GRATE, PRECAST REINF. CONC. MANHOLE W/ CAST IRON COVER, CAST IRON GRATE WITH FRAME, TYPE D - CAST IRON GRATE WITH FRAME, TYPE E
E-100	1/2/2004	CONSTRUCTION APPROACH SIGNS
E-100A	1/2/2004	SIDE ROAD CONSTRUCTION APPROACH SIGNS
E-101	5/30/2003	CONSTRUCTION SIGN DETAILS
E-102	6/30/2003	CONSTRUCTION SIGN DETAILS
E-102A	5/1/2004	CONSTRUCTION SIGN DETAILS
E-103	3/1/2004	MAINLINE TRAFFIC CONTROL DIVIDED HIGHWAY - ONE LANE CLOSED
E-105	5/1/2004	TRAFFIC CONTROL FOR CONSTRUCTION VEHICLE - U-TURNS ON DIVIDED HIGHWAY
E-106	3/1/2004	TRAFFIC CONTROL - MISCELLANEOUS DETAILS
E-107	6/30/2003	DELINEATION, BARRICADES AND DETOURS FOR - U-TURNS ON DIVIDED HIGHWAY
E-107A	8/8/1995	BREAKAWAY BARRICADE DETAILS
E-108A	12/8/2008	CONSTRUCTION ZONE LONGITUDINAL DROP OFFS FOR PAVING
E-110	8/8/1995	MAJOR MAINTENANCE OPERATION LANE CLOSURE
E-111	3/11/1997	MINOR MAINTENANCE OPERATION
E-120	8/8/1995	STANDARD SIGN PLACEMENT - EXPRESSWAY & FREEWAY
E-123	3/16/2004	GUIDE SIGN PLACEMENT - MISCELLANEOUS DETAILS
E-132	8/18/1995	GENERAL MOTORIST SERVICE SIGN DETAILS
E-133	8/8/1995	SERVICE SIGN DETAILS
E-136B	8/8/1995	STATE ROUTE MARKER SIGN DETAILS
E-139	5/1/2004	MILEMARKER DETAILS - INTERSTATE
E-142	9/20/1995	REGULATORY SIGN DETAILS
E-143	6/15/2004	REGULATORY SIGN DETAILS
E-150	5/1/2004	WARNING SIGN DETAILS
E-151	5/1/2004	WARNING SIGN DETAILS
E-152	5/1/2004	WARNING SIGN DETAILS
E-155	5/1/2004	WARNING SIGN DETAILS
E-160	5/20/1999	FLANGED CHANNEL STEEL SIGN POST
E-161	8/18/1995	W-SHAPED STEEL SIGN POST
E-164	5/20/1999	SQUARE STEEL SIGN POST
E-191	2/1/1999	PAVEMENT MARKING DETAILS
E-192	10/12/2000	PAVEMENT MARKING DETAILS
E-193	8/18/1995	PAVEMENT MARKING DETAILS
E-197	4/1/2005	DELINEATOR PLACEMENT TYPICAL
E-198	4/1/2005	DELINEATORS AND MILEPOSTS
E-199	4/1/2005	DELINEATOR AND MILEPOST MOUNTING ON BRIDGE RAIL
F-2	6/1/1994	CHAIN LINK FENCE, TYPE I- DRIVE GATE FOR CHAIN LINK FENCE,TYPE I- WALK GATE FOR CHAIN LINK FENCE,TYPE I
G-1	1/3/2000	STEEL BEAM GUARDRAIL (50MPH & OVER) - HEAVY DUTY STEEL BEAM GUARDRAIL TWISTED END TERMINAL - ANCHOR FOR STEEL BEAM RAIL
G-1D	1/3/2000	STEEL BEAM GUARDRAIL (40MPH & LESS) - HEAVY DUTY STEEL BEAM GUARDRAIL STEEL BEAM MEDIAN BARRIER - ANCHOR FOR STEEL BEAM RAIL
G-19	11/15/2002	GENERIC GRADING PLANS FOR GUARDRAIL END TERMINALS
ESFM	7/10/1997	PERMANENT SNOW FENCE

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34	TYPICAL PAVEMENT MARKINGS
35-36	MILLED RUMBLE STRIP DETAIL SHEETS
37	TEMPORARY TRAFFIC CONTROL PLAN

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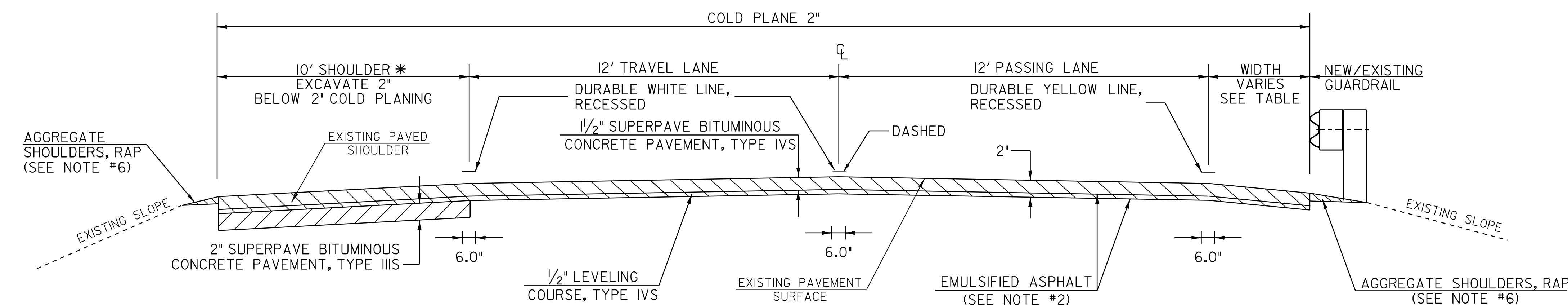
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PROJECT NUMBER:	IM 089-1(54)
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PROJECT LEADER:	PTS
DESIGNED BY:	NULL
IPARM FILE NAME:	p06a198ts.i
PLOT DATE:	28-JUN-2010 15:11
DRAWN BY:	MRS
CHECKED BY:	PTS
SHEET	2 OF 37



MAINLINE TYPICAL SECTION - NB

LOCATION
 NB 924+00 TO 1157+80
 NB 1167+83 TO 1337+69

* WHEN SHOULDER IS LESS THAN 10' IN WIDTH COLD PLANE 2" WITH 1/2" TYPE IVS, AND PAVE WITH 1 1/2" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IVS.



MAINLINE TYPICAL SECTION - SB

LOCATION
 SB 924+00 TO 1157+80
 SB 1167+83 TO 1341+38

PROJECT PAVING LIMITS

TOWN	BEGIN STATION	END STATION	LEFT SHOULDER	LANE TYPICAL	RIGHT SHOULDER	WEARING DEPTH	BASE DEPTH	LEVELING	NOTES
I-89 NB ROYALTON	924+00	1157+80	4	12-12	10	1 1/2" IVS		1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
	1157+80	1167+83	3	12-12	3	1 1/4" IVS			COLD PLANE 1 1/4" AND OVERLAY 1 1/4", BRIDGE 26N
	1167+83	1172+63	4	12-12	VARIES	1 1/2" IVS		1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
	1172+63	1188+48	4	12-12	10	1 1/2" IVS		1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
	1188+48	1197+98	4	12-12	VARIES	1 1/2" IVS		1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
BETHEL I-89 SB	1197+98	1254+13	4	12-12	10	1 1/2" IVS		1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
	1254+13	1337+69	4	12-12	10	1 1/2" IVS		1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
	924+00	1157+80	10	12-12	4	1 1/2" IVS		1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
	1157+80	1167+83	3	12-12	3	1 1/4" IVS			COLD PLANE 1 1/4" AND OVERLAY 1 1/4", BRIDGE 26S
	1167+83	1174+53	VARIES	12-12	4	1 1/2" IVS		1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
BETHEL	1174+53	1181+39	10	12-12	4	1 1/2" IVS		1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
	1181+39	1190+80	VARIES	12-12	4	1 1/2" IVS		1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
	1190+80	1254+13	10	12-12	4	1 1/2" IVS		1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
	1254+13	1341+38	10	12-12	4	1 1/2" IVS		1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
	NB ON RAMP (A)	200+00	215+43	4	16	4	1 1/2" IVS		1/2"
NB OFF RAMP (B)	100+00	101+50	VARIES	VARIES	VARIES	1 1/2" IVS		1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
	101+50	113+37	4	16	4	1 1/2" IVS		1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
SB ON RAMP (C)	400+00	401+50	VARIES	VARIES	VARIES	1 1/2" IVS		1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
	401+50	411+48	5	16	5	1 1/2" IVS		1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
SB OFF RAMP (D)	300+00	301+50	VARIES	VARIES	VARIES	1 1/2" IVS		1/2"	COLD PLANE 2", LEVEL 1/2" AND OVERLAY 1 1/2"
	301+50	313+13	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 9-19-19 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.

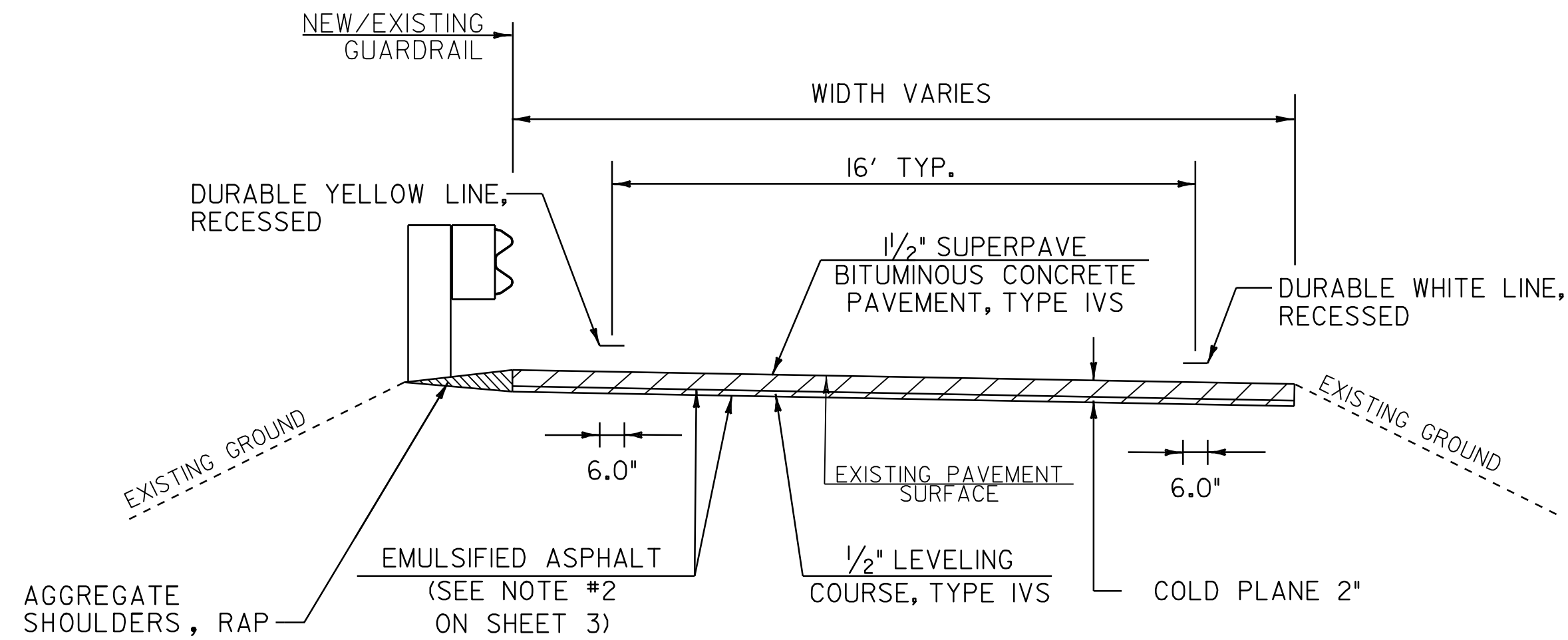
GENERAL NOTES

- COLD PLANE MAINLINE FULL WIDTH 2". EXCAVATE 10' SHOULDER AN ADDITIONAL 2". PAVE 10' SHOULDER 2" WITH TYPE IIIS, LEVEL MAIN LINE FULL WIDTH WITH TYPE IVS, PAVE MAINLINE FULL WIDTH WITH 1 1/2" TYPE IVS. COLD PLANE RAMP A 3", LEVEL WITH TYPE IVS, PAVE WITH 2-1 1/2" LIFTS TYPE IVS. COLD PLANE RAMPS B, C & D 2", LEVEL WITH TYPE IVS, PAVE WITH 1 1/2" TYPE IVS. 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 DENOTED 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.
- ESTIMATED QUANTITIES OF ITEM 608.25, ALL PURPOSE EXCAVATOR RENTAL, TYPE I, 608.37, TRUCK RENTAL AND 608.40, LOADER RENTAL, TYPE I HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL FLARES. 25 CUBIC YARDS OF EARTH BORROW HAS BEEN INCLUDED TO PROVIDE FOR FLARE CONSTRUCTION. THE GUARDRAIL FLARES SHALL BE CAPPED WITH AN ESTIMATED 3 INCH DEPTH OF DITCHING MATERIAL OR TOPSOIL UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. ITEM 653.20, TEMPORARY EROSION MATTING, SHALL BE PLACED ON SLOPES GREATER THAN 1:6 CREATED BY THE GUARDRAIL FLARE. THE QUANTITIES INCLUDED REFLECT 25 SY OF ITEM 653.20, TEMPORARY EROSION MATTING FOR EACH NEW GUARDRAIL FLARE.
- 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.
- ITEM 604.40, CHANGING ELEVATION OF DROP INLETS CATCH BASINS OR MANHOLES AND ITEM 604.41, REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I ARE ESTIMATED QUANTITIES AND SHALL BE PERFORMED AT LOCATIONS INDICATED ON THE LAYOUT SHEETS AND AS DIRECTED BY THE RESIDENT ENGINEER. ALL DROP INLETS AND CATCH BASINS SHALL BE RAISED OR REHABILITATED SUCH THAT THE GRATE ELEVATION IS LEVEL WITH THE SURROUNDING TERRAIN.
- 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.
- THE CONTRACTOR SHALL MAINTAIN COLD PLANE AND PAVING DEPTHS THAT DO NOT REDUCE THE CLEARANCE HEIGHTS OF THE ROADWAY OR SHOULDERS UNDER THE OVERPASS BRIDGES (BR-21 AND BR-28). THESE HEIGHTS SHALL BE RECORDED BY THE RESIDENT ENGINEER PRIOR TO THE START OF CONSTRUCTION AND SHALL BE REMEASURED AFTER PAVING OPERATIONS ARE COMPLETE. IF IT IS DETERMINED THAT A REDUCTION IN CLEAR HEIGHT HAS OCCURRED, THE CONTRACTOR SHALL RE- ESTABLISH THE ORIGINAL CLEAR HEIGHT AT NO ADDITIONAL EXPENSE TO THE STATE.
- 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.
- ALL DELINEATORS WITHIN THE PROJECT LIMITS ARE TO BE REPLACED. THESE ARE TO BE PAID FOR UNDER ITEM 676.10, DELINEATOR WITH STEEL POST AND 676.12, REMOVAL OF EXSITING DELINEATOR.

PROJECT TYPICAL SHEET 1

PROJECT NAME: ROYALTON-BETHEL	PLOT DATE: 28-JUN-2010 15:11
PROJECT NUMBER: IM 089-1(54)	DRAWN BY: MRS
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PROJECT LEADER: PLS	SHEET 3 OF 37
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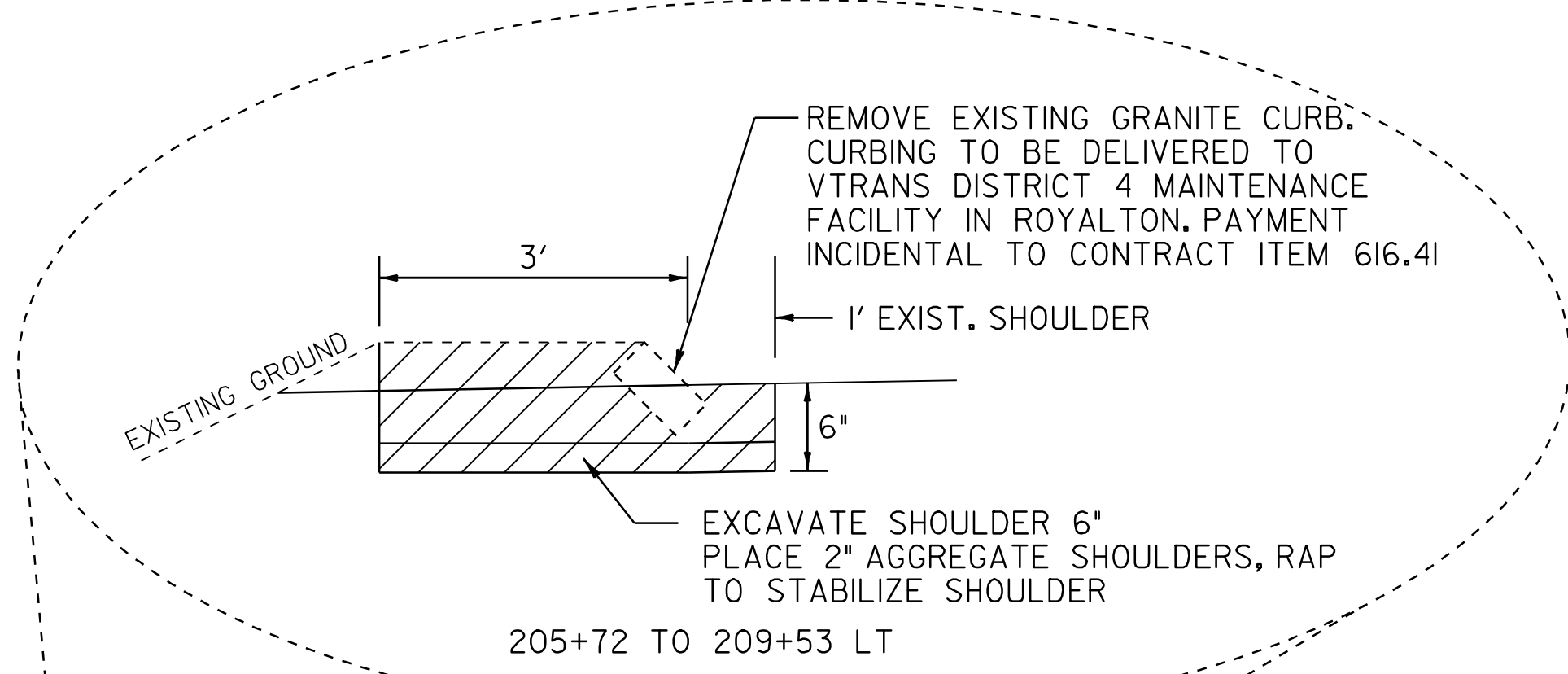
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RAMP PAVEMENT TYPICAL

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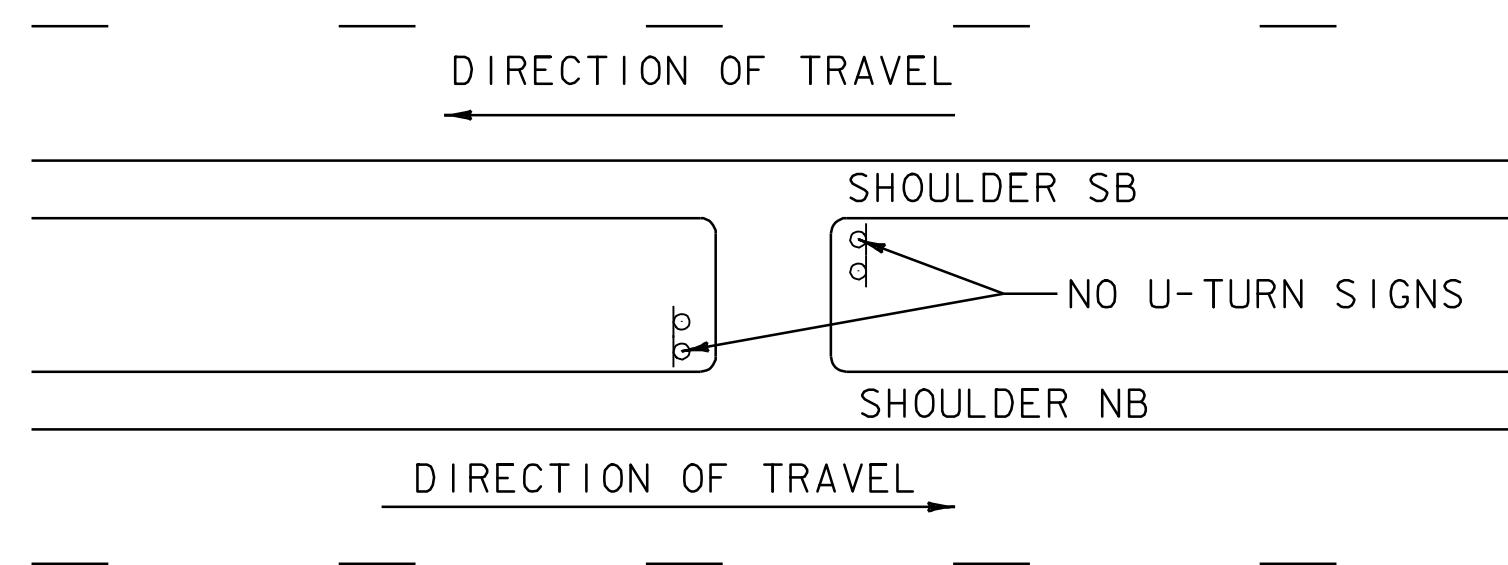
- EXIT 3 NB OFF RAMP B - SEE SHEETS 14, 15
- EXIT 3 SB ON RAMP C - SEE SHEETS 19, 20
- EXIT 3 SB OFF RAMP D - SEE SHEETS 21, 22



NB ON RAMP PAVEMENT TYPICAL

LOCATION

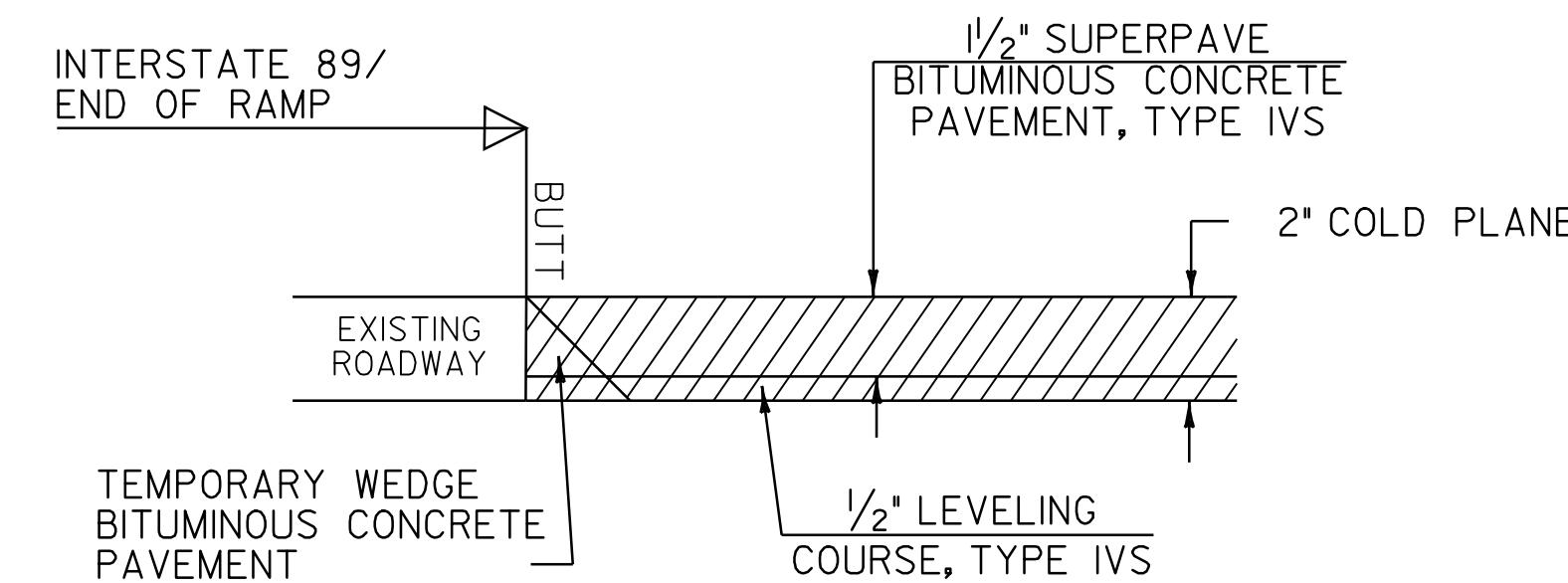
- EXIT 3 NB ON RAMP A - 200+00 TO 215+43, SEE SHEET 16, 17



U-TURN TYPICAL

LOCATION

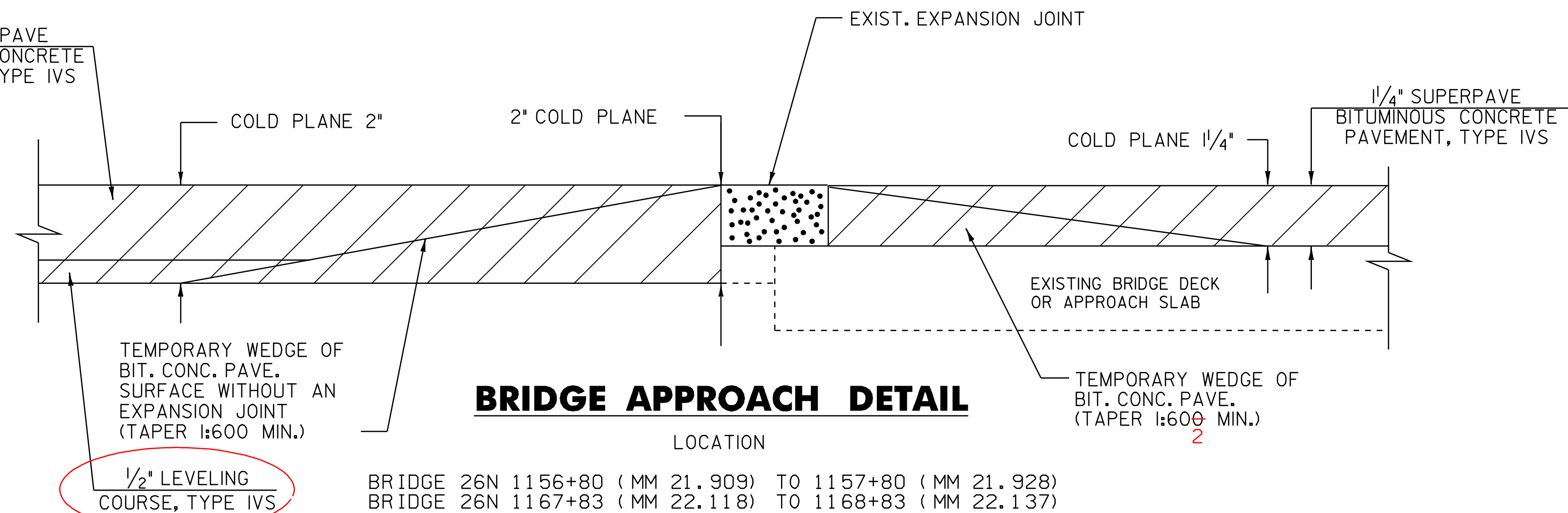
- 942+20 (MM 17.845) 50' X 80'
- 1077+43 (MM 20.406) 50' X 42'
- 1152+43 (MM 21.826) 50' X 30'
- 1208+72 (MM 22.892) 50' X 37'
- 1336+40 (MM 25.311) 215' X 29'



MAINLINE /RAMP APPROACH AREA DETAIL

LOCATION

- 924+00 NB, ROYALTON - BEGIN COLD PLANING
- 924+00 SB, ROYALTON - BEGIN COLD PLANING
- 1337+69 NB, BETHEL - END COLD PLANING
- 1341+38 SB, BETHEL - END COLD PLANING
- 100+00 NB OFF RAMP @ VT ROUTE 107
- 200+00 NB ON RAMP @ VT ROUTE 107
- 300+00 SB OFF RAMP @ VT ROUTE 107
- 400+00 SB ON RAMP @ VT ROUTE 107



BRIDGE APPROACH DETAIL

LOCATION

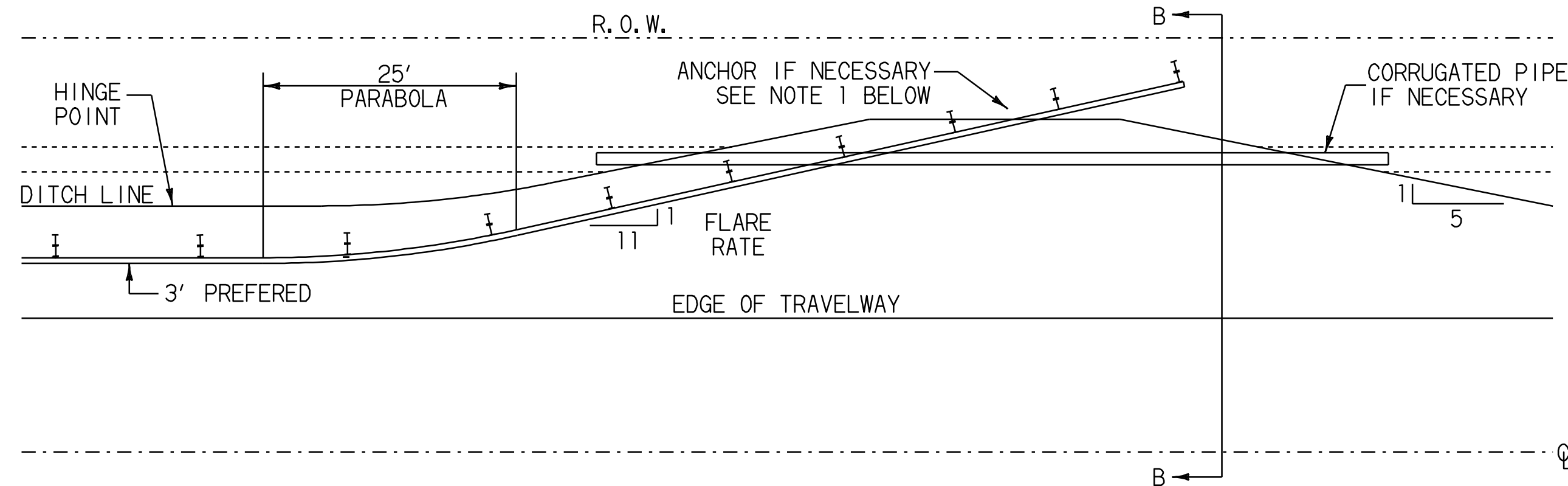
- BRIDGE 26N 1156+80 (MM 21.909) TO 1157+80 (MM 21.928)
- BRIDGE 26N 1167+83 (MM 22.118) TO 1168+83 (MM 22.137)
- BRIDGE 26S 1156+80 (MM 21.909) TO 1157+80 (MM 21.928)
- BRIDGE 26S 1167+83 (MM 22.118) TO 1168+83 (MM 22.137)

NO PAVEMENT JOINTS REQUIRED PER BRIDGE TREATMENT RECOMMENDATIONS. DAMAGE TO THE MEMBRANE DECK OR APPROACH SLABS WILL BE REPAIRED AT THE CONTRACTORS EXPENSE.

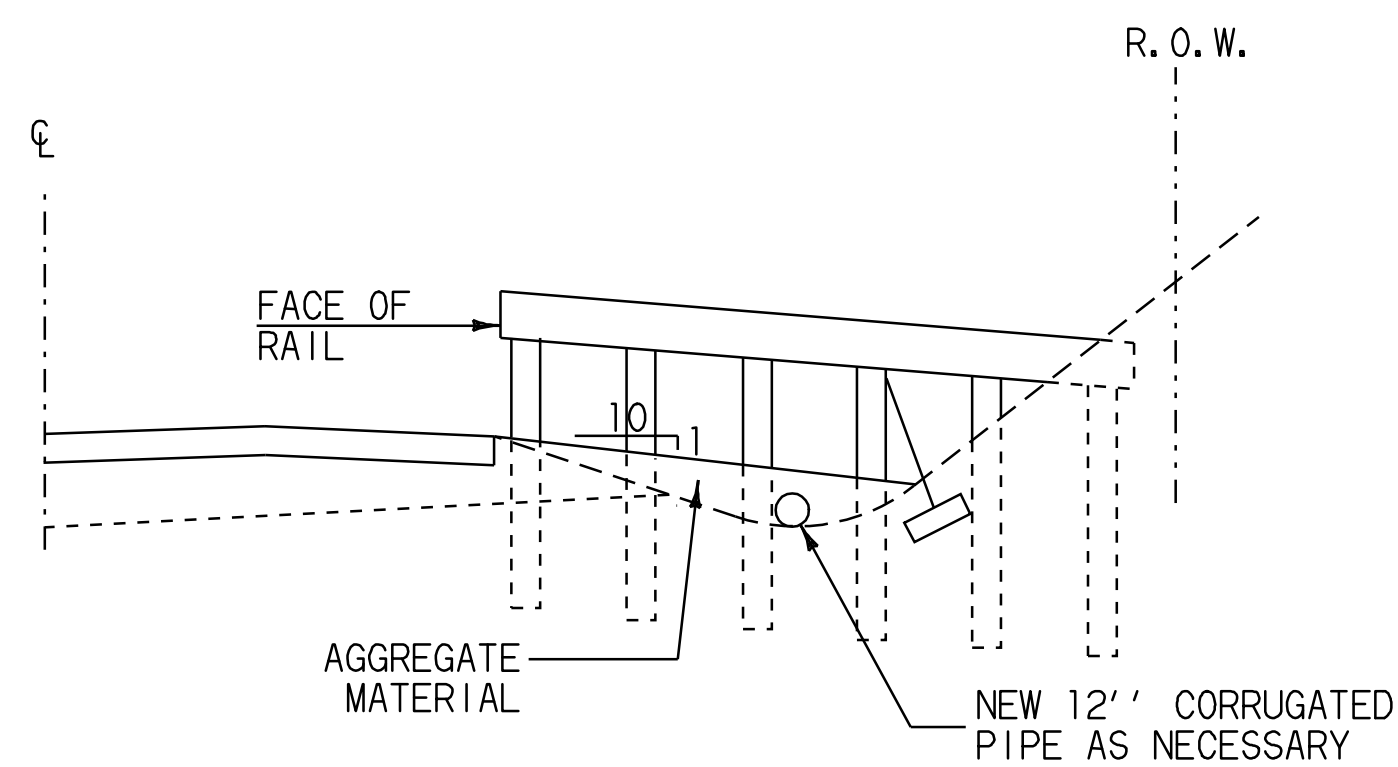
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DESIGNED BY: NULL	CHECKED BY: PTS
IPARM FILE NAME: p06a198p2.1	SHEET 4 OF 37

NOT TO SCALE



DETAIL FOR BURIED GUARD RAIL ENDS INTO BACKSLOPES

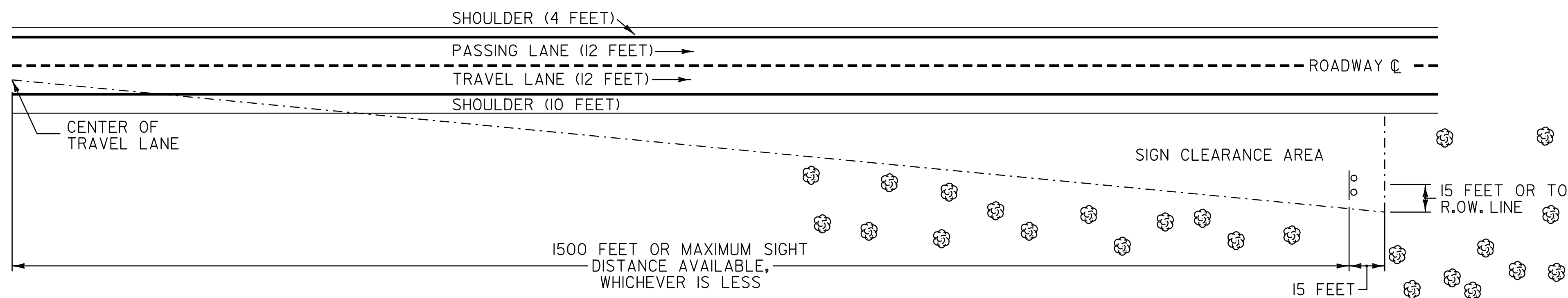


SECTION B-B

1. RAIL TO BE BURIED A DISTANCE OF 12'-6" INTO BACKSLOPE. IF THIS CANNOT BE OBTAINED, AN ANCHOR SHALL BE INSTALLED.

THIS WAS INTENDED FOR SB 22.52 OUT.
A MANUFACTURED TERMINAL SECTION, FLARED
WAS INSTALLED INSTEAD

THINNING AND TRIMMING FOR SIGNS DETAIL



THE CONTRACTOR SHALL REMOVE ALL WOODY STEMMED GROWTH INCLUDING BRUSH, SAPLINGS AND TREE LIMBS GROWING WITHIN OR PROJECTING INTO THE CLEARANCE AREA DOWN TO GROUND LEVEL OR AT LEAST 10 FEET BELOW THE BOTTOM OF THE SIGN, WHICHEVER IS LESS. PAYMENT WILL BE FOR THINNING AND TRIMMING FOR SIGNS, ITEM 201.31, AND PAID FOR PER EACH SIGN. NO CHEMICALS (POISONS OR DEFOLIANTS) WILL BE ALLOWED.

SIGN LOCATION:
1229+39 LT:
SOUTHBOUND:
MM 23.29

NOT TO SCALE

PROJECT TYPICAL SHEET 3

PROJECT NAME: ROYALTON-BETHEL	PLOT DATE: 28-JUN-2010 15:12
PROJECT NUMBER: IM 089-1(54)	DRAWN BY: MRS
FILE NAME: p06a198.dgn	CHECKED BY: PTS
DESIGNED BY: NULL	SHEET 5 OF 37
IPARM FILE NAME: p06a198p+3.1	

QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES														TOTALS		DESCRIPTIONS			DETAILED SUMMARY OF QUANTITIES						
														ROADWAY	TRAINING	FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITY	UNIT	ITEMS
																	470		HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	2			
																	400		HR	POWER BROOM RENTAL, TYPE II	608.31	-			
																	470		HR	TRUCK RENTAL	608.37	2			
																	470		HR	LOADER RENTAL, TYPE I	608.40	2			
																	25		CY	STONE FILL, TYPE I	613.10	3			
																	275		LF	TREATED TIMBER CURB	616.35	3			
																	385		LF	REMOVAL OF EXISTING CURB	616.41	4			
																	190		EACH	YIELDING MARKER POSTS	619.17	9			
																	80		LF	CHAIN-LINK FENCE, 6 FEET	620.12	3			
																	10		EACH	BRACING ASSEMBLY FOR CHAIN-LINK FENCE, 6 FEET	620.21	1			
																	80		LF	SNOW BARRIER, GALVANIZED	620.75	3			
																	3200		LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	77.5			
																	16		EACH	MANUFACTURED TERMINAL SECTION, FLARED	621.50	-			
																	9		EACH	ANCHOR FOR STEEL BEAM RAIL	621.60	-			
																	50		LF	ALUMINUM APPROACH RAILING	621.74	-			
																	1780		EACH	REPLACE GUARDRAIL POST ASSEMBLY	621.76	EST			
																	900		EACH	REPLACE GUARDRAIL BEAM UNIT	621.77	EST			
																	2800		LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	24			
																	2140		HR	UNIFORMED TRAFFIC OFFICERS	630.10	-			
																	6420		HR	FLAGGERS	630.15	-			
																			LS	FIELD OFFICE, ENGINEERS	631.10	-			
																			LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-			
																			LU	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.25	-			
																			HR	EMPLOYEE TRAINEESHIP	634.10	-			
																			LS	MOBILIZATION/DEMOBILIZATION	635.11	-			
																			LS	TRAFFIC CONTROL	641.10	-			
																			EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-			
																			LF	DURABLE 6 INCH WHITE LINE, RECESSED POLYUREA	646.426	306			
																			LF	DURABLE 6 INCH YELLOW LINE, RECESSED POLYUREA	646.436	272			
																			LF	DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA	646.466	18			
																			LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482	3			

PROJECT NAME: ROYALTON-BETHEL
 PROJECT NUMBER: IM 089-1(54)
 FILE NAME: p06a198.dgn PLOT DATE: 28-JUN-2010 15:2
 PROJECT LEADER: PTS DRAWN BY: MRS
 DESIGNED BY: NULL CHECKED BY: PTS
 IPARM FILE NAME: p06a198qs2.1 SHEET 7 OF 37

QUANTITY SHEET 3

SUMMARY OF ESTIMATED QUANTITIES														TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES					
														ROADWAY	TRAINING	FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITY	UNIT	ITEMS
														28			28		EACH	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	-			
														220400			220400		LF	TEMPORARY 6 INCH WHITE LINE, PAINT	646.622	612			
														177000			177000		LF	TEMPORARY 6 INCH YELLOW LINE, PAINT	646.632	144			
														3340			3340		LF	TEMPORARY 12 INCH WHITE LINE, PAINT	646.662	36			
														100			100		LF	TEMPORARY 24 INCH STOP BAR, PAINT	646.682	6			
														56			56		EACH	TEMPORARY LETTER OR SYMBOL, PAINT	646.692	-			
														6800			6800		EACH	LINE STRIPING TARGETS	646.76	111			
														70			70		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			
														400			400		SY	TEMPORARY EROSION MATTING	653.20	-			
														750			750		SF	TRAFFIC SIGNS, TYPE A	675.20	4.99			
														144			144		SF	TRAFFIC SIGNS, TYPE B	675.21	-			
														2320			2320		LB	W-SHAPE STEEL SIGN POST	675.31	10			
														45			45		LB	TUBULAR ALUMINUM SIGN POST	675.32	3			
														185			185		LB	TUBULAR STEEL SIGN POST	675.33	3			
														1335			1335		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	-			
														2			2		EACH	FOUNDATION FOR W-SHAPE STEEL POST, 24 INCH DIAMETER	675.41	-			
														2			2		EACH	FOUNDATION FOR TUBULAR STEEL POST	675.43	-			
														122			122		EACH	REMOVING SIGNS (TYPE A)	675.50	-			
														2			2		EACH	REMOVING SIGNS (TYPE B)	675.50	-			
														2			2		EACH	ERECTING SALVAGED SIGNS (TYPE B)	675.60	-			
														505			505		EACH	DELINEATOR WITH STEEL POST	676.10	3			
														490			490		EACH	REMOVAL OF EXISTING DELINEATOR	676.12	4			
														1			1		LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	-			
														2			2		EACH	SPECIAL PROVISION (FOUNDATION FOR W-SHAPE STEEL POST, 30 INCH DIAMETER)	900.620	-			

PROJECT NAME: ROYALTON-BETHEL
 PROJECT NUMBER: IM 089-1(54)
 FILE NAME: p06a198.dgn PLOT DATE: 28-JUN-2010 15:12
 PROJECT LEADER: PTS DRAWN BY: MRS
 DESIGNED BY: NULL CHECKED BY: PTS
 IPARM FILE NAME: p06a198qs3.i SHEET 8 OF 37

LOCATION			DROP INLETS				GUARDRAIL						MISC.	DELINEATORS				REMARKS								
STATION	STATION	POS.	203.15	616.41		604.40	604.412	604.415	604.418	601.0005	616.35	621.20	621.74	621.50		621.60	621.80		676.10							
			COMM. EXCAV.	REMOVAL OF EXIST. CURB		CHANGE ELEV. D. I.	REHAB DI, CB OR MH CLASS I	REHAB DI, CB OR MH CLASS II	REHAB DI, CB OR MH CLASS III	12" CSP .064	TREATED TIMBER CURB	STEEL BEAM G. R. GALV.	ALUMINUM APPROACH RAILING	M. T. S. FLARED		ANCHOR FOR G. R.	REMOVE & DISP. G. R.				TYPE I	TYPE II	TYPE III	TYPE I MILE POSTS		
INTERSTATE 89	NB		CY	LF		EA	EA	EA	EA	LF	LF	LF	LF	EA		EA	LF									
924+00	I337+69					I	14	14	13												75	26	10	147	FOR LOCATIONS SEE LAYOUT SHEETS. ESTIMATED QUANTITY TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER	
924+00	I337+69	RT	2403.5																						SHOULDER EXCAVATION - SEE SHEET 3 FOR DETAIL	
922+04.0	95I+14.0	RT																							RETAIN EXISTING GUARDRAIL AND BITUMINOUS CURB	
923+41.0	925+12.0	LT																								RETAIN EXISTING GUARDRAIL
953+51.0	I034+16.0	RT																								RETAIN EXISTING GUARDRAIL AND BITUMINOUS CURB
I04I+12.0	I064+13.0	RT																								RETAIN EXISTING GUARDRAIL AND BITUMINOUS CURB
I076+96.0	I092+68.0	RT																								RETAIN EXISTING GUARDRAIL AND BITUMINOUS CURB
I096+11.0	I103+18.0	RT																								RETAIN EXISTING GUARDRAIL AND BITUMINOUS CURB
I113+31.0	I124+29.0	RT																								RETAIN EXISTING GUARDRAIL AND BITUMINOUS CURB
I136+74.0	I144+50.0	RT																								RETAIN EXISTING GUARDRAIL
I146+88.0	I172+63.0	RT																								RETAIN EXISTING GUARDRAIL (INCLUDES BRIDGE 26N) AND TREATED TIMBER CURB, ENDS ON RAMP B @ I03+76
I153+55.0	I157+80.0	LT									400.0	25	I								I					MTS @ I153+17.5 ~ I153+55, ALUMINUM APPROACH RAILING I157+55 ~ I157+80 SEE DETAIL SHEETS 32 AND 34.
I155+58.0	I157+80.0	LT															222									REMOVE ALUMINUM RAIL WITH TEXAS TWIST
I157+80.0	I168+20.5	LT																								BRIDGE 26N RETAIN EXIST. AL. BRIDGE RAIL, AL. APPROACH RAIL & 12.5' OF S.B.G.R.
I168+20.5	I170+34.0	LT															214									REMOVE BULLNOSE - SEE DETAIL SHEET 31
I168+20.5	I168+45.5	LT									27.0					I										I168+20.5 ATTACH TO EXIST., ANCHOR @ I168+45.5 (WITH ROUNDED "W" BEAM END SECTION)
I178+48.0	I182+56.0	RT																								RETAIN EXISTING GUARDRAIL - BEGINS ON RAMP A
I204+34.0	I204+71.5	RT															37.5				I					REMOVE AND REPLACE EXISTING TERMINAL
I204+71.5	I248+14.0	RT																								RETAIN EXISTING GUARDRAIL AND TIMBER CURB
I270+88.0	I271+25.5	RT															37.5				I					REMOVE AND REPLACE EXISTING TERMINAL
I271+25.5	I278+69.0	RT																								RETAIN EXISTING GUARDRAIL AND TIMBER CURB
I279+70.0	I284+45.0	LT									477.0					I					I					MTS @ I279+32.5 ~ I279+70, ANCHOR @ I284+45 (WITH ROUNDED "W" BEAM END SECTION)
I280+50.0	I284+75.0	RT									427.0					I					I					MTS @ I280+12.5 ~ I280+50, ANCHOR @ I284+75 (WITH ROUNDED "W" BEAM END SECTION)
I281+28.0	I284+76.0	RT															348									
I283+65.0	I284+55.0	LT															90									REMOVE BULLNOSE - SEE DETAIL SHEET 31
I309+78.0	I310+15.5	RT															37.5				I					REMOVE AND REPLACE EXISTING TERMINAL
I310+15.5 NB OFF RAMP	I328+56.0	RT																								RETAIN EXISTING GUARDRAIL
I00+00	I13+37						2																			FOR LOCATIONS SEE LAYOUT SHEETS. ESTIMATED QUANTITY TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER
I03+76 NB ON RAMP	I13+37	LT																								RETAIN EXISTING GUARDRAIL - CONTINUES ON I-89 @ I172+63
I200+00	I215+43						2	I	I																	FOR LOCATIONS SEE LAYOUT SHEETS. ESTIMATED QUANTITY TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER
I202+37	I202+74.5	RT															37.5				I					REMOVE AND REPLACE EXISTING TERMINAL
I202+74.5	I215+43	RT																								RETAIN EXISTING GUARDRAIL AND TREATED TIMBER CURB- CONTINUES ON I-89 @ I178+48
I205+72.0	I209+53.0	LT	28.2	381																						SEE SHEET 4 FOR DETAIL
SUBTOTAL SHEET 7			2431.7	381		I	18	15	14	0	0	1331.0	25.0	7		3	1024.0				82	26	10	147		

LOCATION			DROP INLETS				GUARDRAIL						MISC.		DELINEATORS				REMARKS							
STATION	STATION	POS.	203.15	616.41		604.40	604.412	604.415	604.418	601.0005	616.35	621.20	621.74	621.50		621.60	621.80	676.10								
			COMM. EXCAV.	REMOVAL OF EXIST. CURB		CHANGE ELEV. D. I.	REHAB DI, CB OR MH CLASS I	REHAB DI, CB OR MH CLASS II	REHAB DI, CB OR MH CLASS III	12" CSP .064	TREATED TIMBER CURB	STEEL BEAM G. R. GALV.	ALUMINUM APPROACH RAILING	M. T. S. FLARED		ANCHOR FOR G. R.	REMOVE & DISP. G. R.				TYPE I	TYPE II	TYPE III	TYPE I MILE POSTS		
INTERSTATE 89	SB		CY	LF		EA	EA	EA	EA	LF	LF	LF	LF	EA		EA	LF									
924+00	I34I+38						5	5	5												49	17	10	152	FOR LOCATIONS SEE LAYOUT SHEETS. ESTIMATED QUANTITY TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER SEE SHEET 3 FOR DETAIL	
924+00	I34I+38	LT	2970.6																						RETAIN EXISTING GUARDRAIL	
923+99.0	928+05.0	LT																							RETAIN EXISTING GUARDRAIL	
924+88.0	926+62.0	RT																							RETAIN EXISTING GUARDRAIL	
936+54.0	950+16.0	LT																							RETAIN EXISTING GUARDRAIL AND BITUMINOUS CURB	
957+55.0	965+04.0	LT																							RETAIN EXISTING GUARDRAIL	
968+52.0	977+02.0	LT																							RETAIN EXISTING GUARDRAIL AND BITUMINOUS CURB	
974+28.0	I066+15.0	RT																							RETAIN EXISTING GUARDRAIL AND BITUMINOUS CURB	
I022+67.0	I049+68.0	LT																							RETAIN EXISTING GUARDRAIL	
I05I+95.0	I065+46.0	LT																							RETAIN EXISTING GUARDRAIL	
I079+92.0	I09I+90.0	LT																							RETAIN EXISTING GUARDRAIL AND BITUMINOUS CURB	
I103+72.0	I109+57.0	LT																							RETAIN EXISTING GUARDRAIL	
I115+43.0	I13I+74.0	LT																							RETAIN EXISTING GUARDRAIL AND BITUMINOUS CURB	
I152+51.0	I174+53.0	LT																							RETAIN EXISTING GUARDRAIL (INCLUDES BRIDGE 26S) AND TIMBER CURB - ENDS ON RAMP @ 410+27	
I156+70.0	I157+80.0	RT															110								REMOVE ALUMINUM RAIL WITH TEXAS TWIST	
I157+30.0	I157+80.0	RT									27.0	25.0				1									ANCHOR @ I157+30 (WITH ROUNDED "W" BEAM END SECTION), APPR. RAIL I157+55 ~ I157+80 SEE DETAIL ON SHEETS 33 AND 34.	
I157+80.0	I168+20.5	RT																							BRIDGE 26S RETAIN EXIST. AL. BRIDGE RAIL, AL. APPROACH RAIL & I2.5' S.B.G.R.	
I168+20.5	I170+34.0	RT															214								REMOVE BULLNOSE - SEE DETAIL SHEET 3I	
I168+20.5	I172+08.0	RT									387.5		1						1						I168+20.5 ATTACH TO EXIST., MTS, @ I172+08 ~ I172+45.5	
I183+60.0	I188+30.0	LT															470								REMOVE GUARDRAIL DUE TO SHOULDER WIDENING	
I183+60.0	I188+60.0	LT									500					3									ANCHOR @ I183+60 (WITH ROUNDED "W" BEAM END SECTION), ANCHOR @ I186+62.0 BURIED END SECTION (SEE DETAIL ON SHEET 5) ANCHOR @ I188+60	
I183+90.0	I186+62.0	LT									272														ANCHOR @ I183+60 (WITH ROUNDED "W" BEAM END SECTION), MTS I188+10 ~ I188+60.0	
I186+50.0	I189+97.0	LT	15.9																						SHOULDER WIDENING FOR DECEL LANE	
I187+35.0	I188+95.0	LT								160															PIPE FOR BURIED END SECTION	
I207+35.0	I217+00.5	LT																							RETAIN EXISTING GUARDRAIL	
I217+00.5	I217+38.0	LT													1		37.5			1					REMOVE AND REPLACE EXISTING TERMINAL	
I244+29.0	I275+62.5	RT																							RETAIN EXISTING GUARDRAIL	
I264+55.0	I266+86.5	LT																							RETAIN EXISTING GUARDRAIL	
I266+86.5	I267+24.0	LT													1		37.5			1					REMOVE AND REPLACE EXISTING TERMINAL	
I275+62.5	I276+00.0	RT													1		37.5			1					REMOVE AND REPLACE EXISTING TERMINAL	
I279+41.0	I285+84.0	LT															643									
I283+35.0	I287+60.0	LT									427.0			1		1					1					ANCHOR @ I283+35 (WITH ROUNDED "W" BEAM END SECTION), MTS @ I287+60 ~ I287+97.5
SUBTOTAL SHEET 8			2986.5	0		0	5	5	5	160	272	1314.5	25.0	5		5	1549.5				54	17	10	152		

**ITEM
DETAIL
SHEET 2
SB**

PROJECT NAME: ROYALTON-BETHEL
PROJECT NUMBER: IM 089-1(54)
FILE NAME: p06a198.dgn
PROJECT LEADER: PTS
DESIGNED BY: NULL
IPARM FILE NAME: p06a1981d2.1
PLOT DATE: 28-JUN-2010 15:12
DRAWN BY: MRS
CHECKED BY: PTS
SHEET 10 OF 37

TEMPORARY 6" WHITE LINE, PAINT
 DURABLE 6" WHITE LINE, RECESSED
 924+00 TO 1167+99 SOLID RT
 924+00 TO 1337+69 DASHED CL
 1172+63 TO 1178+48 SOLID RT
 1182+78 TO 1337+69 SOLID RT

TEMPORARY 6" YELLOW LINE, PAINT
 DURABLE 6" YELLOW LINE, RECESSED
 924+00 TO 1337+69 SOLID LT

CHAIN-LINK FENCE, 6'
 BRACING ASSEMBLY FOR CHAIN-LINK FENCE, 6'
 SNOW BARRIER, GALVANIZED
 1210+71 LT - FROM ROW FENCE TO ROW
 FENCE ALONG CONCRETE BOX CULVERT

SHOULDER BERM REMOVAL

922+04 TO 927+76 RT
 953+51 TO 964+71 RT
 972+10 TO 1024+40 RT
 1041+12 TO 1045+87 RT
 1063+55 TO 1064+13 RT
 1076+96 TO 1079+01 RT
 1096+11 TO 1099+96 RT
 1102+34 TO 1103+18 RT
 1113+31 TO 1117+06 RT
 1136+74 TO 1144+50 RT
 1146+88 TO 1151+36 RT
 1204+34 TO 1207+88 RT
 1241+97 TO 1248+14 RT
 1270+88 TO 1273+16 RT
 1277+80 TO 1278+69 RT
 1309+78 TO 1328+56 RT

CHANGING ELEVATION OF DROP INLETS,
 CATCH BASINS, OR MANHOLES
 937+79 RT

DELINEATORS

REFER TO STANDARDS E-197,
 E-198 AND E-199 FOR
 PLACEMENT GUIDELINES

REMOVAL AND DISPOSAL OF GUARDRAIL

1204+34.0 TO 1204+71.5 RT
 1270+88.0 TO 1271+25.5 RT
 1309+78.0 TO 1310+15.5 RT

MANUFACTURED TERMINAL SECTION, FLARED
 DELINEATOR WITH STEEL POST

1204+34.0 RT
 1270+88.0 RT
 1309+78.0 RT

REHAB. DROP INLETS, CATCH BASINS,
 OR MANHOLES, CLASS I, CLASS II OR CLASS III

931+88 RT 1081+28 RT
 933+88 RT 1083+45 RT
 940+21 RT 1117+11 RT
 942+85 RT 1119+07 RT
 944+80 RT 1121+60 RT
 946+81 RT 1153+74 RT
 948+81 RT 1156+27 RT
 968+09 RT 1157+69 RT
 970+10 RT 1167+72 RT
 972+05 RT 1207+93 RT
 1026+72 RT 1214+74 RT
 1029+20 RT 1217+22 RT
 1031+15 RT 1219+75 RT
 1032+79 RT 1222+23 RT
 1046+19 RT 1224+71 RT
 1048+09 RT 1227+19 RT
 1050+46 RT 1229+83 RT
 1053+42 RT 1232+31 RT
 1055+79 RT 1234+84 RT
 1060+65 RT 1237+38 RT
 1273+21 RT

TRAFFIC SIGNS, TYPE A

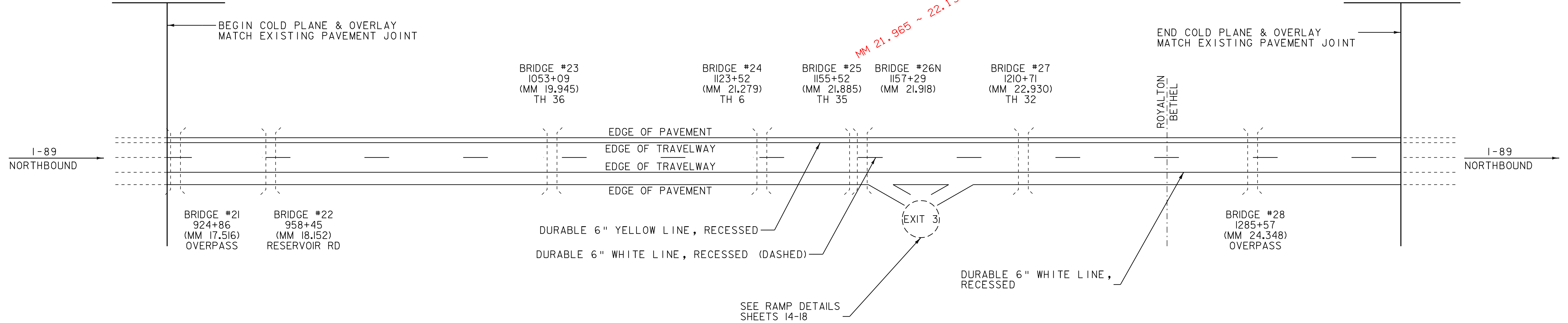
950+40 RT MM PLAQUE (18)
 1003+20 RT MM PLAQUE (19)
 1077+11 LT NO U-TURN
 1108+80 RT MM PLAQUE (21)
 1152+13 LT NO U-TURN
 1208+30 LT NO U-TURN
 1214+40 RT MM PLAQUE (23)
 1267+20 RT MM PLAQUE (24)
 1320+00 RT MM PLAQUE (25)
 1336+00 LT NO U-TURN

REMOVING SIGNS

950+40 RT MM PLAQUE (18)
 1003+20 RT MM PLAQUE (19)
 1077+11 LT NO U-TURN
 1108+80 RT MM PLAQUE (21)
 1152+13 LT NO U-TURN
 1208+30 LT NO U-TURN
 1214+40 RT MM PLAQUE (23)
 1267+20 RT MM PLAQUE (24)
 1320+00 RT MM PLAQUE (25)
 1336+00 LT NO U-TURN

INTERSTATE ROUTE 89 NB
924+00
(MM 17.500)
BEGIN PROJECT
IM 089-1(54)

INTERSTATE ROUTE 89 NB
1337+69
(MM 25.335)
LIMIT OF WORK
IM 089-1(54)



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

PAVING LAYOUT I

PROJECT NAME:	ROYALTON-BETHEL
PROJECT NUMBER:	IM 089-1(54)
FILE NAME:	p06a198.dgn
DESIGNED BY:	NULL
IPARM FILE NAME:	p06a198p11.t
PLOT DATE:	28-JUN-2010 15:12
DRAWN BY:	MRS
CHECKED BY:	PTS
SHEET	12 OF 37

NOT TO SCALE

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

924+00 TO 1173+23 SOLID LT
 924+00 TO 1341+38 DASHED CL
 1174+53 TO 1181+39 SOLID LT
 1183+52 TO 1341+38 SOLID RT

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

924+00 TO 1341+38 SOLID RT

CHAIN-LINK FENCE, 6'
 BRACING ASSEMBLY FOR CHAIN-LINK FENCE, 6'
 SNOW BARRIER, GALVANIZED

1210+71 LT - FROM ROW FENCE TO ROW
 FENCE ALONG CONCRETE BOX CULVERT

SHOULDER BERM REMOVAL

923+99 TO 928+05 LT
 936+54 TO 936+97 LT
 947+75 TO 950+16 LT
 957+55 TO 965+04 LT
 968+52 TO 969+00 LT
 973+32 TO 977+02 LT
 974+28 TO 1022+99 RT
 1022+67 TO 1049+68 LT
 1051+95 TO 1065+46 LT
 1062+26 TO 1066+15 RT
 1079+92 TO 1080+82 LT
 1088+47 TO 1091+90 LT
 1103+72 TO 1109+57 LT
 1115+43 TO 1116+22 LT
 1123+29 TO 1131+74 LT
 1152+51 TO 1157+80 LT
 1207+35 TO 1217+38 LT
 1244+29 TO 1276+00 RT
 1264+55 TO 1267+24 LT
 1313+94 TO 1318+80 LT
 1324+39 TO 1325+04 LT
 1330+73 TO 1333+15 LT

REHAB. DROP INLETS, CATCH BASINS,
 OR MANHOLES, CLASS I, CLASS II OR CLASS III

938+50 LT 1118+33 LT
 940+87 LT 1120+81 LT
 943+53 LT 1123+29 LT
 945+43 LT 1159+34 LT
 970+90 LT 1183+87 LT
 1080+82 LT 1325+03 LT
 1088+35 LT 1327+56 LT

STONE FILL, TYPE I

1033+02 RT (PAVE 6' x30')
 1034+31 RT (PAVE 6' x30')
 1038+21 RT (PAVE 6' x30')

DELINEATORS

REFER TO STANDARDS E-197,
 E-198 AND E-199 FOR
 PLACEMENT GUIDELINES

REMOVAL AND DISPOSAL OF GUARDRAIL

1217+00.5 TO 1217+38.0 LT
 1266+86.5 TO 1267+24.0 LT
 1275+62.5 TO 1276+00.0 RT
 1318+42.5 TO 1318+80.0 LT
 1332+77.5 TO 1333+15.0 LT

MANUFACTURED TERMINAL SECTION, FLARED
 DELINEATOR WITH STEEL POST

1217+38.0 LT
 1267+24.0 LT
 1276+00.0 RT
 1318+80.0 LT
 1333+15.0 LT

TRAFFIC SIGNS, TYPE A

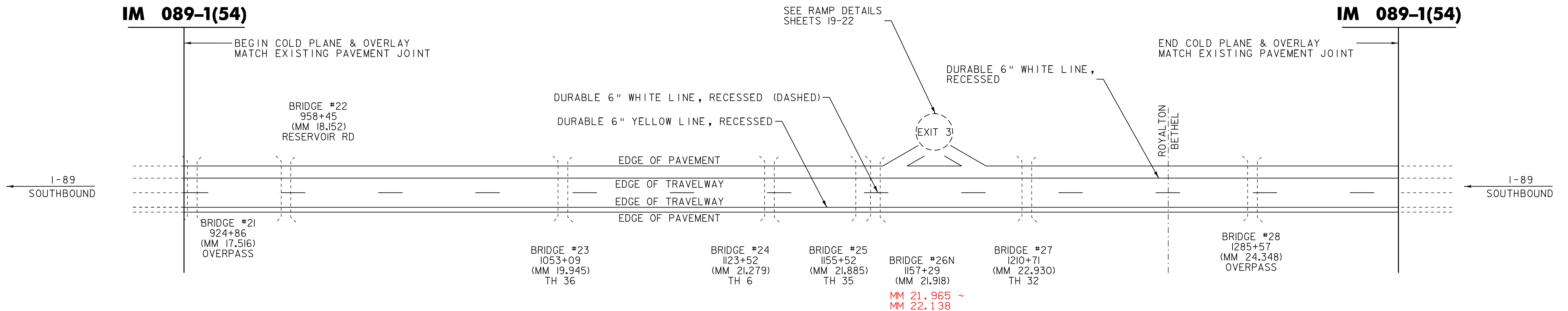
950+40 LT MM PLAQUE (18)
 1003+20 LT MM PLAQUE (19)
 1056+00 LT MM PLAQUE (20)
 1077+85 RT NO U-TURN
 1108+80 LT MM PLAQUE (21)
 1152+75 RT NO U-TURN
 1209+14 RT NO U-TURN
 1214+40 LT MM PLAQUE (23)
 1267+20 LT MM PLAQUE (24)
 1320+00 LT MM PLAQUE (25)
 1336+82 RT NO U-TURN

REMOVING SIGNS

950+40 LT MM PLAQUE (18)
 1003+20 LT MM PLAQUE (19)
 1056+00 LT MM PLAQUE (20)
 1077+85 RT NO U-TURN
 1108+80 LT MM PLAQUE (21)
 1152+75 RT NO U-TURN
 1209+14 RT NO U-TURN
 1214+40 LT MM PLAQUE (23)
 1267+20 LT MM PLAQUE (24)
 1320+00 LT MM PLAQUE (25)
 1336+82 RT NO U-TURN

INTERSTATE ROUTE 89 SB
924 + 00
(MM 17.500)
BEGIN PROJECT
IM 089-1(54)

INTERSTATE ROUTE I-89 SB
1341 + 38
(MM 25.405)
END PROJECT
IM 089-1(54)

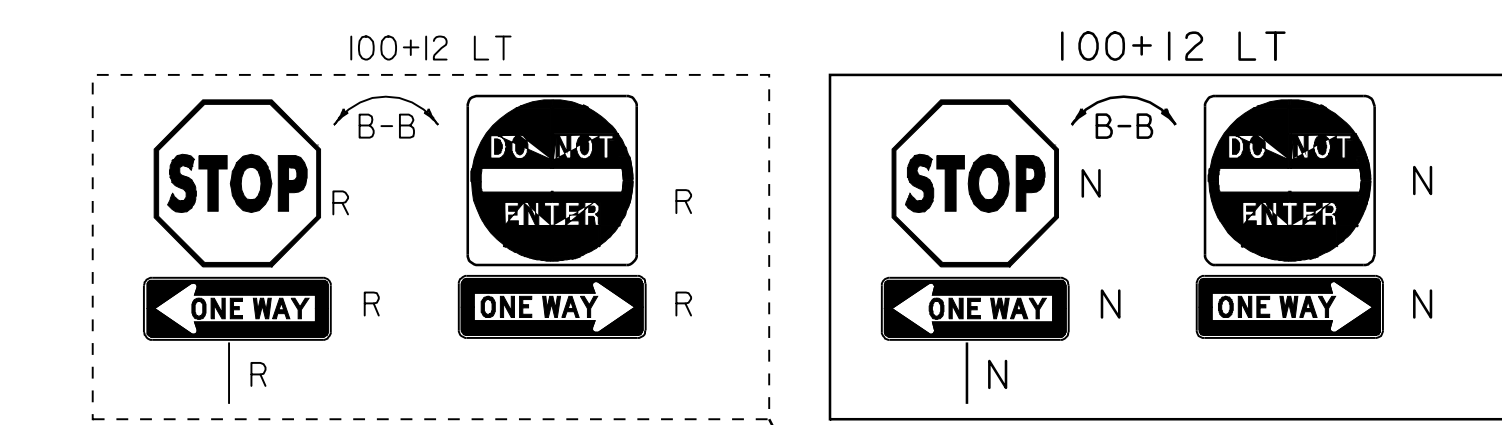


SEE PROJECT PAVING LIMITS TABLE ON
 SHEET 3 FOR ROADWAY DIMENSIONS.

PAVING LAYOUT 2

PROJECT NAME: ROYALTON-BETHEL	PLOT DATE: 28-JUN-2010 15:12
PROJECT NUMBER: IM 089-1(54)	DRAWN BY: MRS
FILE NAME: p06a198.dgn	CHECKED BY: PTS
PROJECT LEADER: PTS	SHEET 13 OF 37
DESIGNED BY: NULL	
IPARM FILE NAME: p06a198pl2.1	

NOT TO SCALE



TEMPORARY 6" WHITE LINE, PAINT
DURABLE 6" WHITE LINE, RECESSED
100+00 TO 110+50 SOLID LT

TEMPORARY 6" YELLOW LINE, PAINT
DURABLE 6" YELLOW LINE, RECESSED
100+00 TO 110+50 SOLID RT

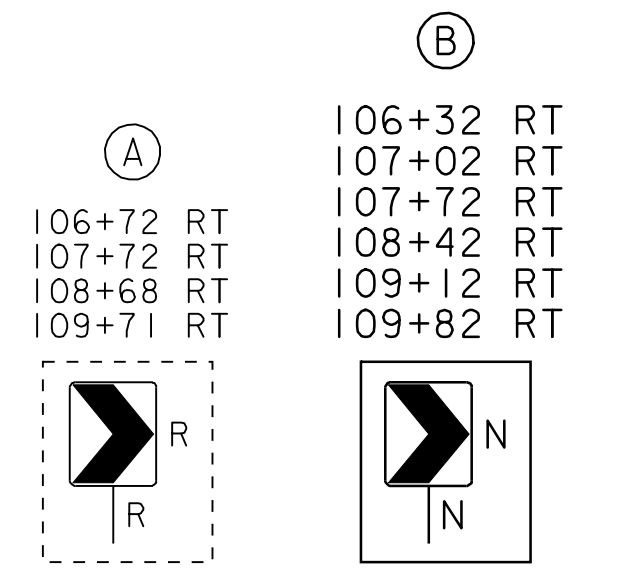
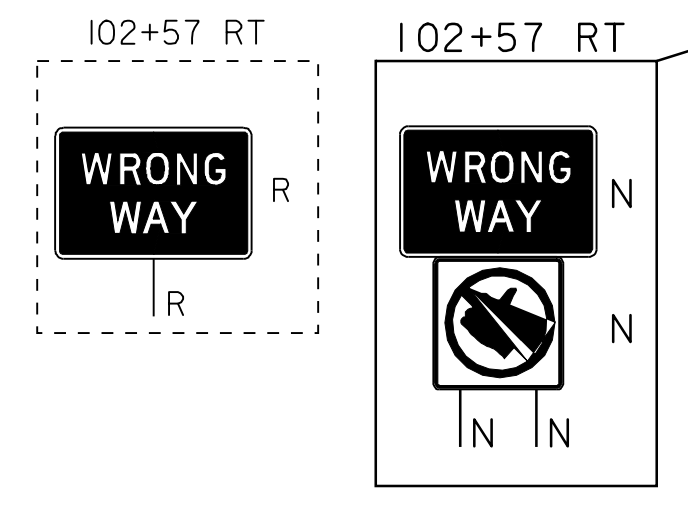
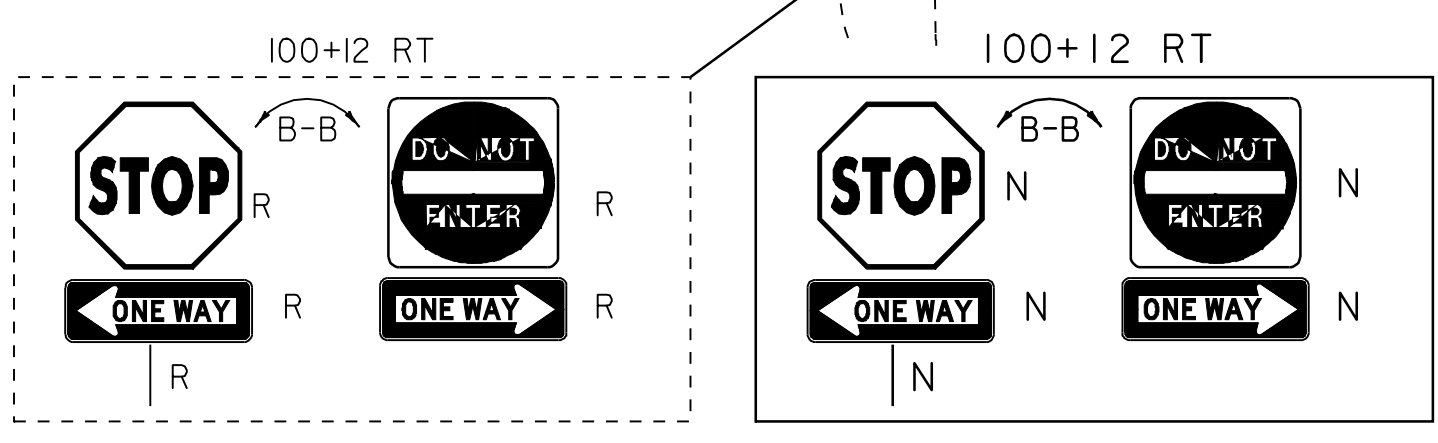
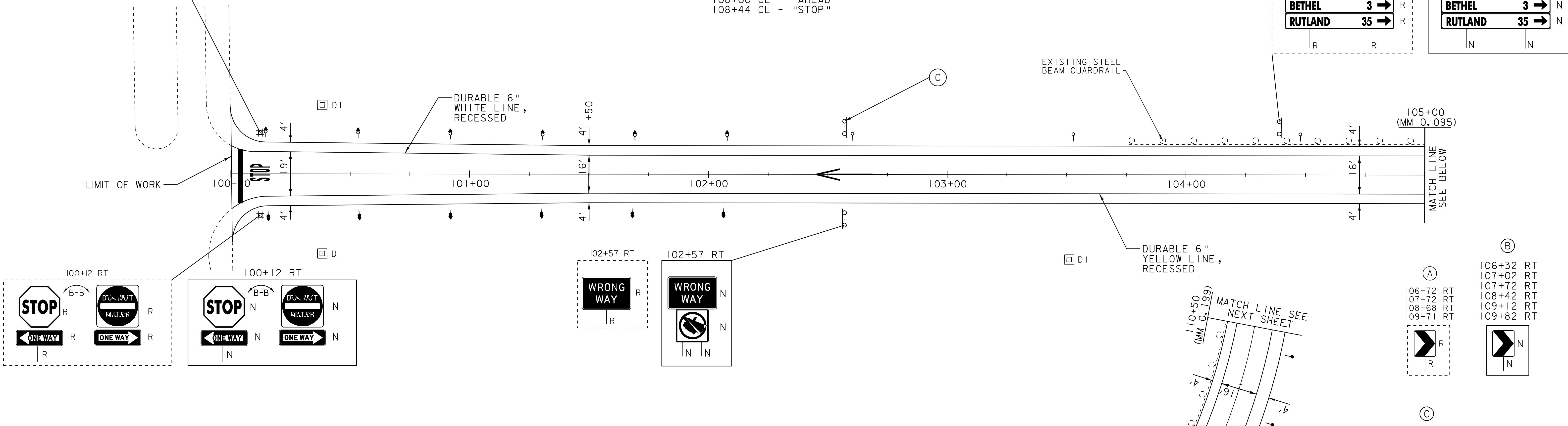
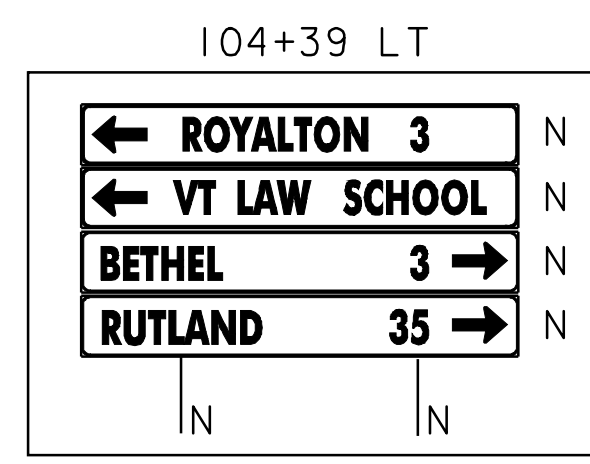
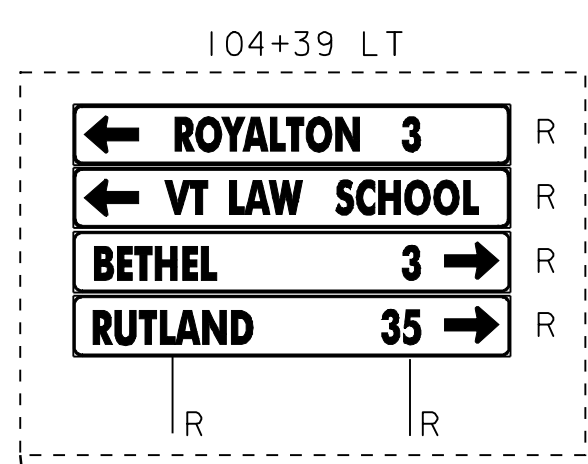
TEMPORARY 24" STOP BAR, PAINT
DURABLE 24" STOP BAR, THERMOPLASTIC
100+04 LT TO RT

TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL, THERMOPLASTIC
100+12 CL - "STOP"
102+57 CL - WRONG WAY ARROW
108+00 CL - "AHEAD"
108+44 CL - "STOP"

REHAB. DROP INLETS, CATCH BASINS,
OR MANHOLES, CLASS I, CLASS II OR CLASS III
105+55 LT
108+58 LT

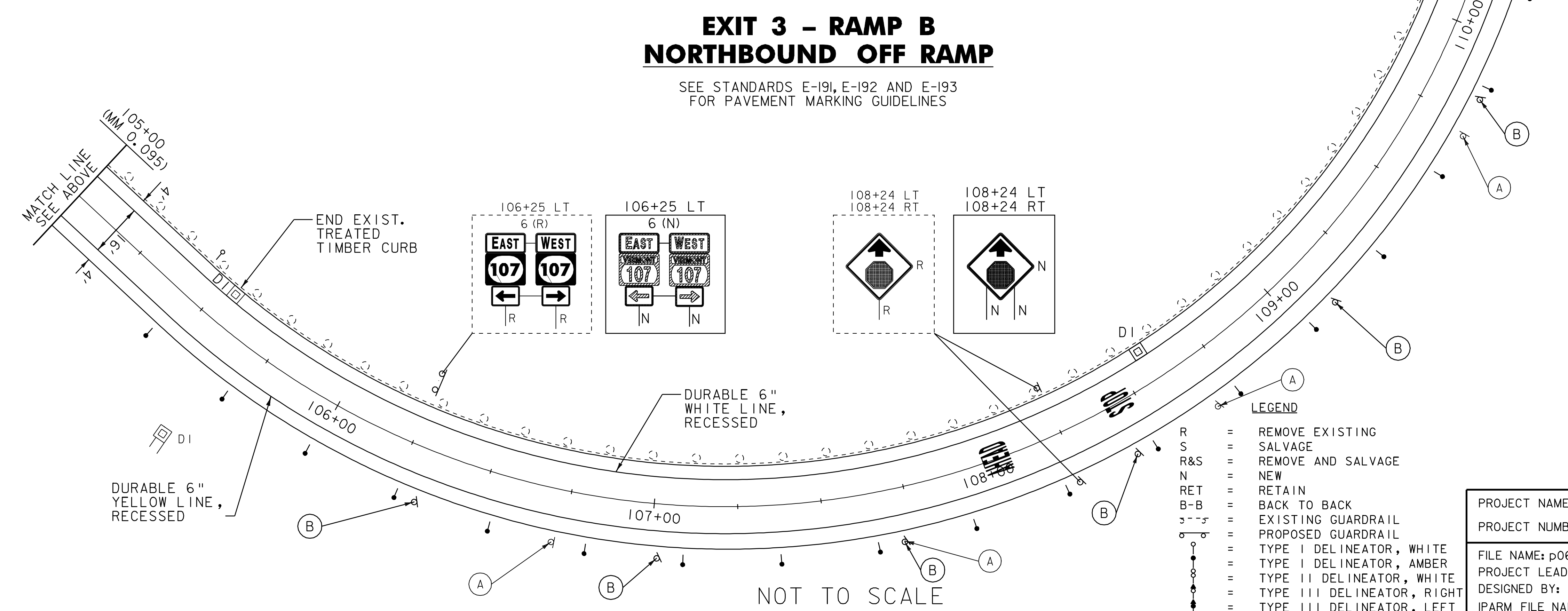
DELINEATORS
REFER TO STANDARDS E-197 AND
E-198 FOR PLACEMENT GUIDELINES

REMOVING SIGNS
AS SHOWN - 32



EXIT 3 - RAMP B NORTHBOUND OFF RAMP

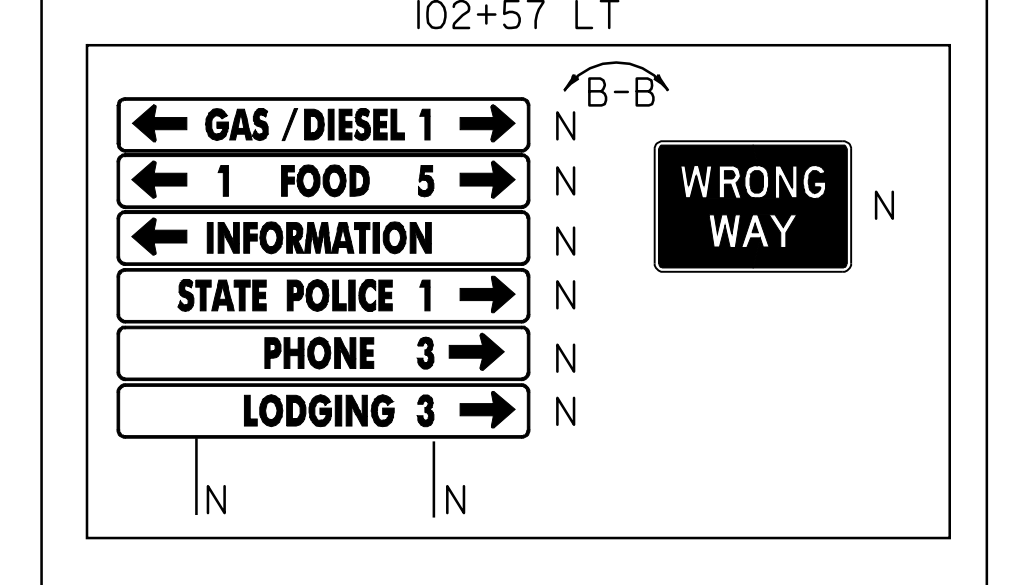
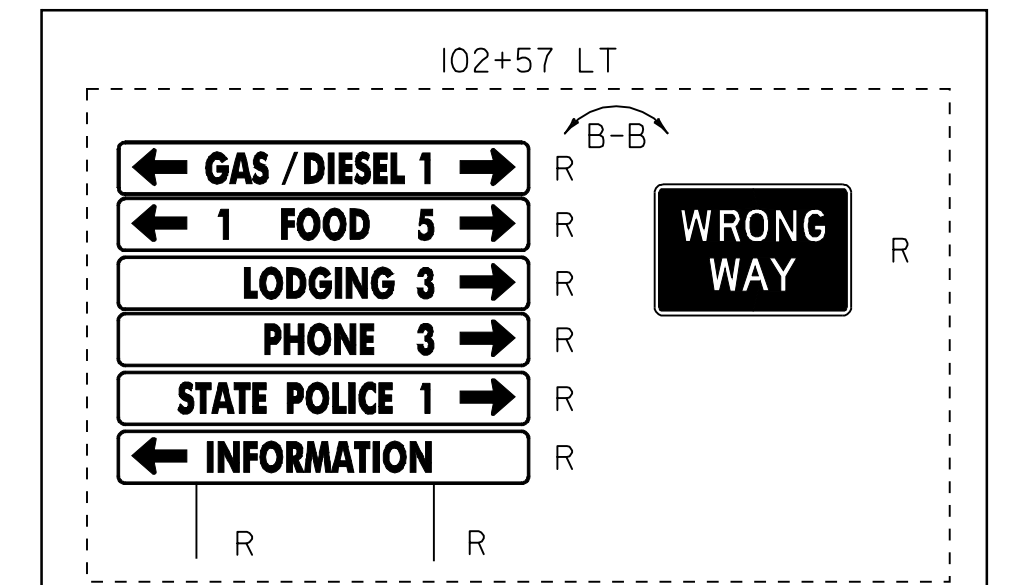
SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES



PAVEMENT CORES -
(NO STATIONING GIVEN)

NO.	STA	TOTAL DEPTH (in)	PCC
1	1-89 RAMP NB	8	NO
2	1-89 RAMP NB	6.5	NO
3	1-89 RAMP NB	8.25	NO

- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGE
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = EXISTING GUARDRAIL
 - - - = PROPOSED GUARDRAIL
 - = TYPE I DELINEATOR, WHITE
 - = TYPE I DELINEATOR, AMBER
 - = TYPE II DELINEATOR, WHITE
 - = TYPE III DELINEATOR, RIGHT
 - = TYPE III DELINEATOR, LEFT



RAMP DETAIL #1

PROJECT NAME: ROYALTON-BETHEL
PROJECT NUMBER: IM 089-1(54)

FILE NAME: p06a198.dgn
PROJECT LEADER: PTS
DESIGNED BY: NULL
IPARM FILE NAME: p06a198r.d1

PLOT DATE: 28-JUN-2010 15:12
DRAWN BY: MRS
CHECKED BY: PTS
SHEET 14 OF 37

EXIT 3 - RAMP B NORTHBOUND OFF RAMP

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES

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

110+50 TO 118+01 SOLID LT
114+79 TO 118+01 DOTTED RT
1167+56 TO 1167+99 DOTTED RT

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

110+50 TO 113+37 SOLID RT

TEMPORARY 12" WHITE LINE, PAINT
DURABLE 12" WHITE LINE, RECESSED

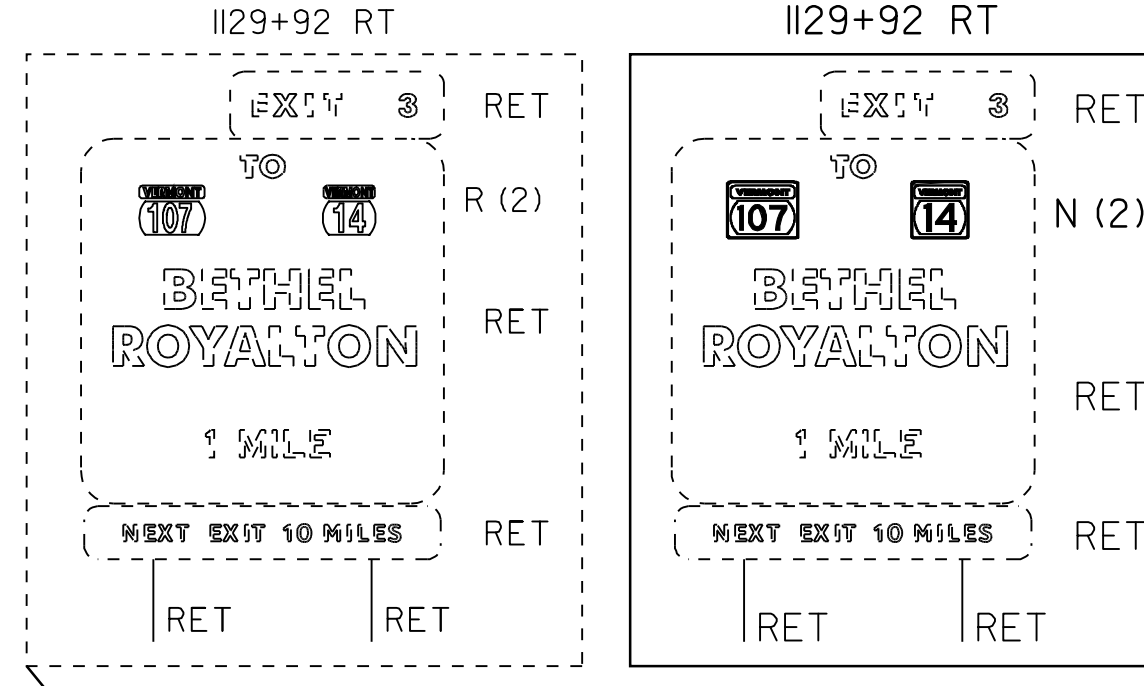
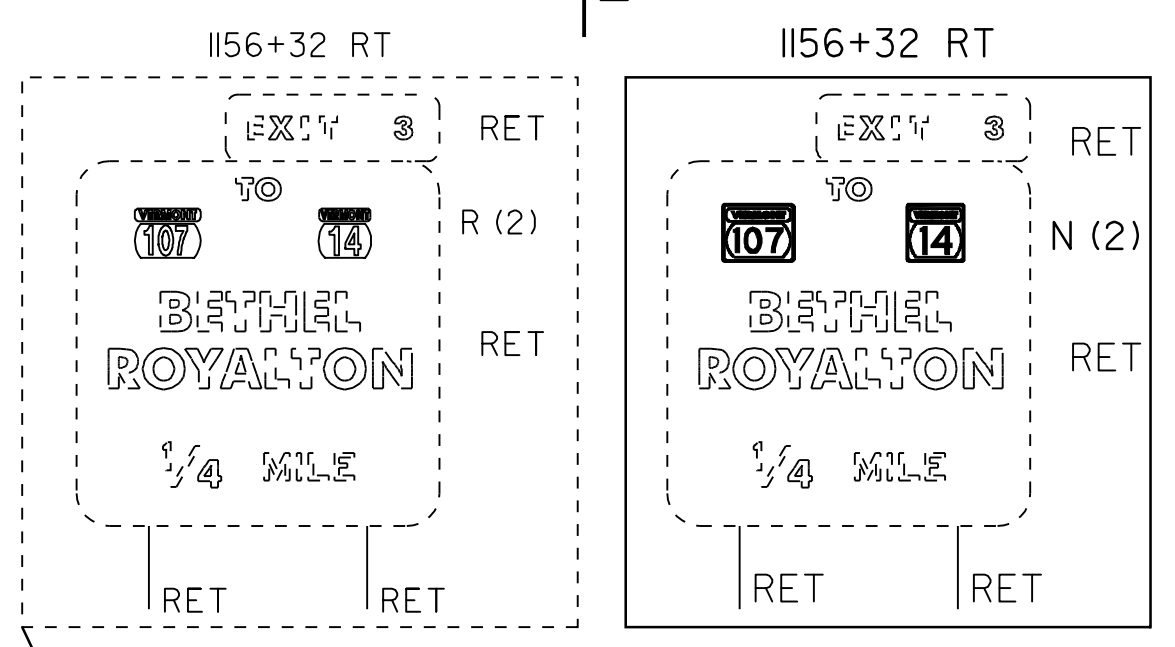
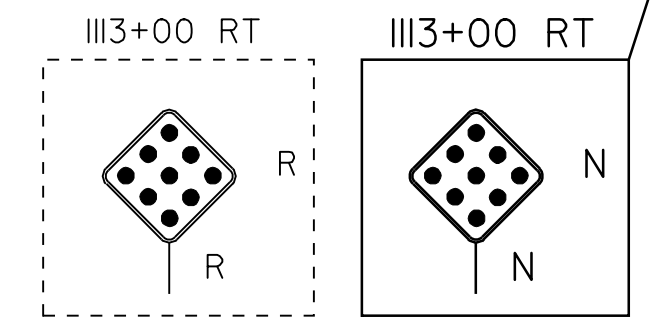
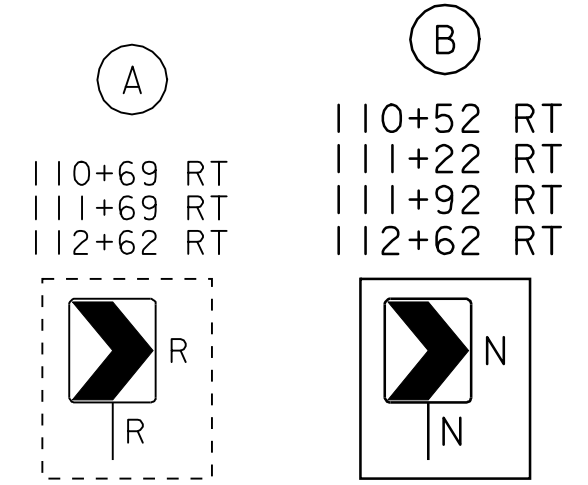
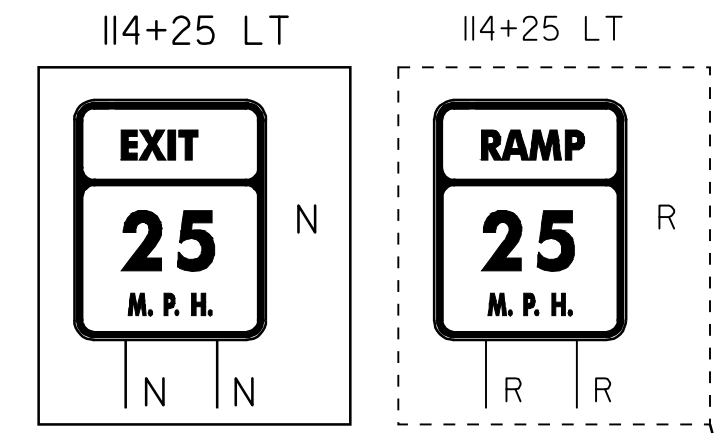
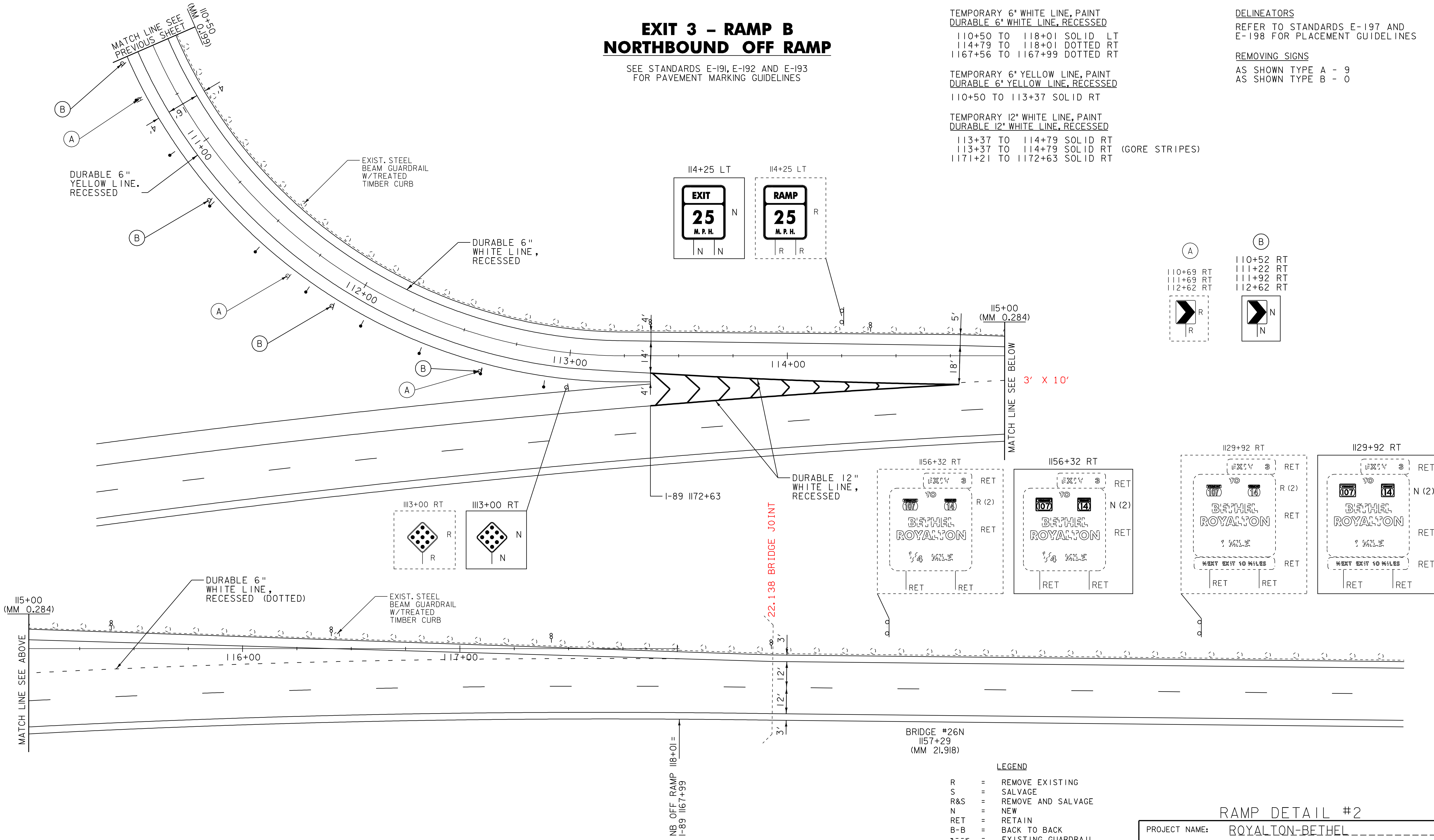
113+37 TO 114+79 SOLID RT
113+37 TO 114+79 SOLID RT (GORE STRIPES)
1171+21 TO 1172+63 SOLID RT

DELINEATORS

REFER TO STANDARDS E-197 AND
E-198 FOR PLACEMENT GUIDELINES

REMOVING SIGNS

AS SHOWN TYPE A - 9
AS SHOWN TYPE B - 0



LEGEND

- R = REMOVE EXISTING
- S = SALVAGE
- R&S = REMOVE AND SALVAGE
- N = NEW
- RET = RETAIN
- B-B = BACK TO BACK
- = EXISTING GUARDRAIL
- - - = PROPOSED GUARDRAIL
- o = TYPE I DELINEATOR, WHITE
- o = TYPE I DELINEATOR, AMBER
- o = TYPE II DELINEATOR, WHITE
- o = TYPE III DELINEATOR, RIGHT
- o = TYPE III DELINEATOR, LEFT

RAMP DETAIL #2

PROJECT NAME: ROYALTON-BETHEL	PLOT DATE: 28-JUN-2010 15:12
PROJECT NUMBER: IM 089-1(54)	DRAWN BY: MRS
FILE NAME: p06a198.dgn	CHECKED BY: PTS
PROJECT LEADER: PLS	IPARM FILE NAME: p06a198r.d2.1
DESIGNED BY: NULL	SHEET 15 OF 37

NOT TO SCALE

EXIT 3 - RAMP A NORTHBOUND ON RAMP

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES

TEMPORARY 6" WHITE LINE, PAINT
DURABLE 6" WHITE LINE, RECESSED
200+00 TO 210+50 SOLID RT

TEMPORARY 6" YELLOW LINE, PAINT
DURABLE 6" YELLOW LINE, RECESSED
200+00 TO 210+50 SOLID LT

SHOULDER BERM REMOVAL
202+37 TO 210+50 RT

REMOVAL OF EXISTING CURB
205+72 TO 209+53 LT

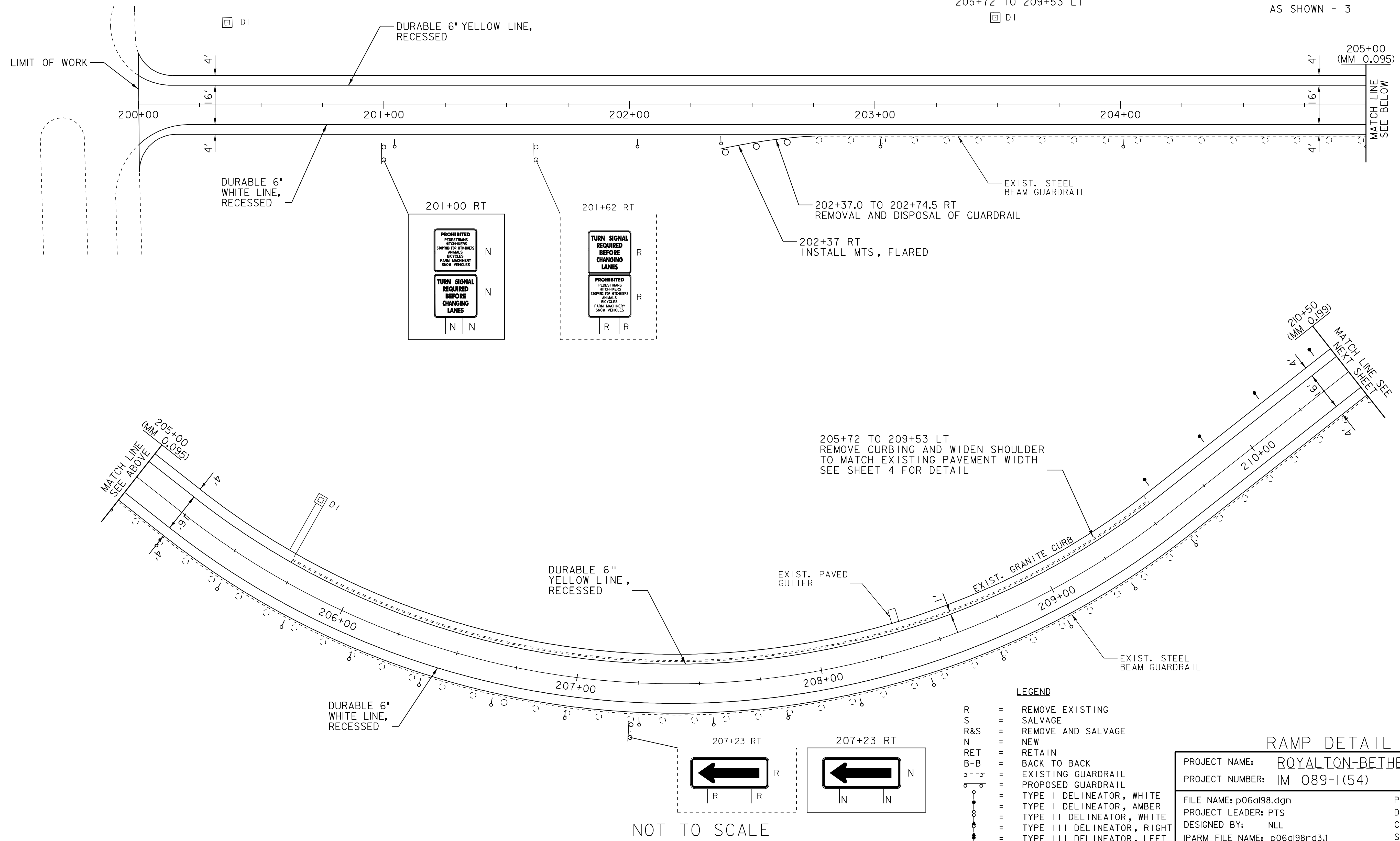
DELINEATORS

REFER TO STANDARDS E-197 AND
E-198 FOR PLACEMENT GUIDELINES

REMOVAL AND DISPOSAL OF GUARDRAIL
202+37.0 TO 202+74.5 RT

MANUFACTURED TERMINAL SECTION, FLARED
DELINEATOR WITH STEEL POST
202+37 RT

REMOVING SIGNS
AS SHOWN - 3



NOT TO SCALE

LEGEND

- R = REMOVE EXISTING
- S = SALVAGE
- R&S = REMOVE AND SALVAGE
- N = NEW
- RET = RETAIN
- B-B = BACK TO BACK
- = EXISTING GUARDRAIL
- - - = PROPOSED GUARDRAIL
- = TYPE I DELINEATOR, WHITE
- = TYPE I DELINEATOR, AMBER
- = TYPE II DELINEATOR, WHITE
- = TYPE III DELINEATOR, RIGHT
- = TYPE III DELINEATOR, LEFT

RAMP DETAIL #3

PROJECT NAME: ROYALTON-BETHEL	
PROJECT NUMBER: IM 089-1(54)	
FILE NAME: p06a198.dgn	PLOT DATE: 28-JUN-2010 15:12
PROJECT LEADER: PTS	DRAWN BY: MRS
DESIGNED BY: NULL	CHECKED BY: PTS
IPARM FILE NAME: p06a198r3.1	SHEET 16 OF 37

EXIT 3 - RAMP A NORTHBOUND ON RAMP

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES

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

210+50 TO 219+73 SOLID RT
1182+78 TO 1183+50 DASHED RT

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

210+50 TO 215+43 SOLID LT

TEMPORARY 12" WHITE LINE, PAINT
DURABLE 12" WHITE LINE, RECESSED

215+43 TO 218+00 SOLID LT 257'
1178+48 TO 1182+78 SOLID RT 430'

SHOULDER BERM REMOVAL

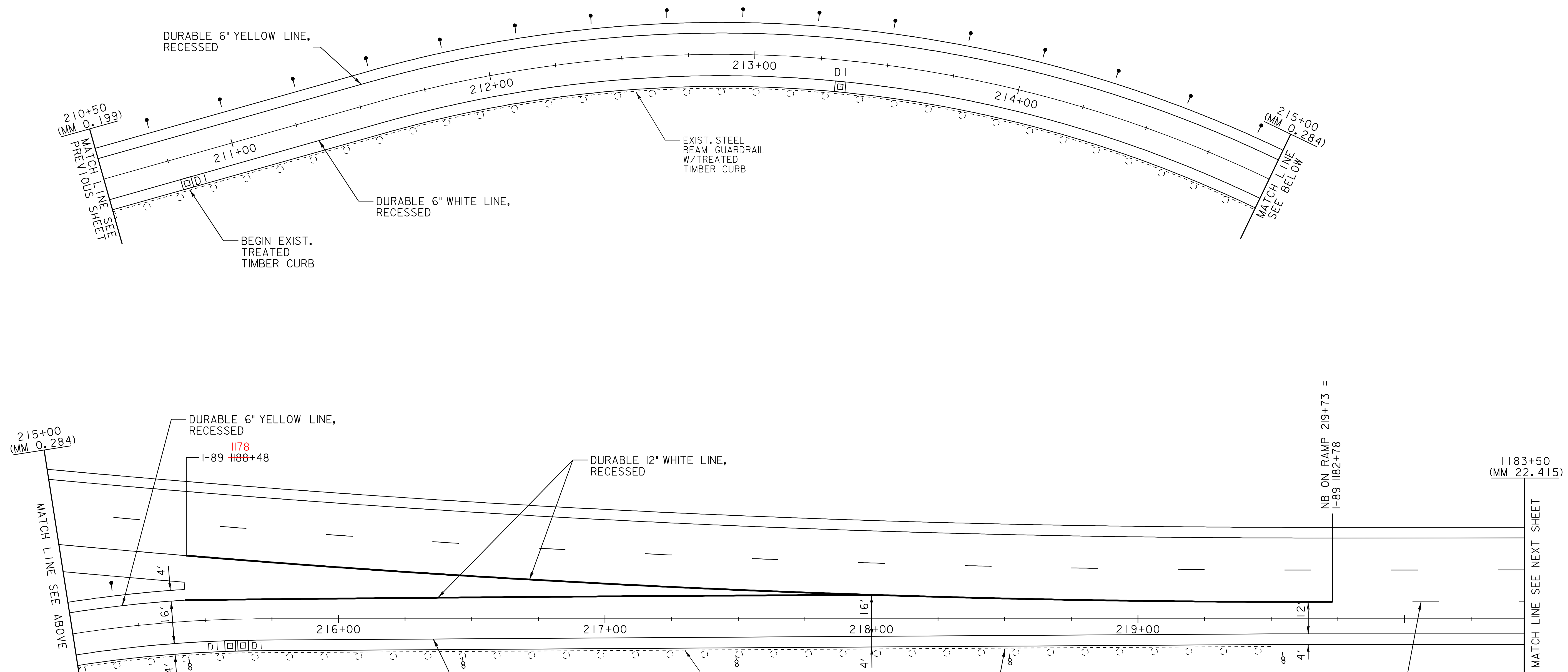
210+50 TO 210+80 RT
218+50 TO 219+50 RT

REHAB. DROP INLETS, CATCH BASINS,
OR MANHOLES, CLASS I, CLASS II OR CLASS III

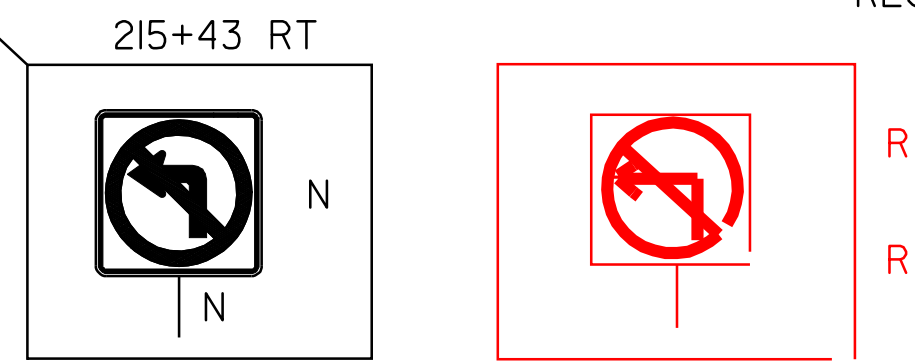
210+80 RT
213+33 RT
215+59 RT
215+64 RT

DELINEATORS

REFER TO STANDARDS E-197 AND
E-198 FOR PLACEMENT GUIDELINES



LEGEND	
R	= REMOVE EXISTING
S	= SALVAGE
R&S	= REMOVE AND SALVAGE
N	= NEW
RET	= RETAIN
B-B	= BACK TO BACK
---	= EXISTING GUARDRAIL
- - -	= PROPOSED GUARDRAIL
○	= TYPE I DELINEATOR, WHITE
○	= TYPE I DELINEATOR, AMBER
○	= TYPE II DELINEATOR, WHITE
○	= TYPE III DELINEATOR, RIGHT
○	= TYPE III DELINEATOR, LEFT



RAMP DETAIL #4

PROJECT NAME: ROYALTON-BETHEL
PROJECT NUMBER: IM 089-1(54)

FILE NAME: p06a198.dgn
PROJECT LEADER: PTS
DESIGNED BY: NULL
IPARM FILE NAME: p06a198r4.1

PLOT DATE: 28-JUN-2010 15:12
DRAWN BY: MRS
CHECKED BY: PTS
SHEET 17 OF 37

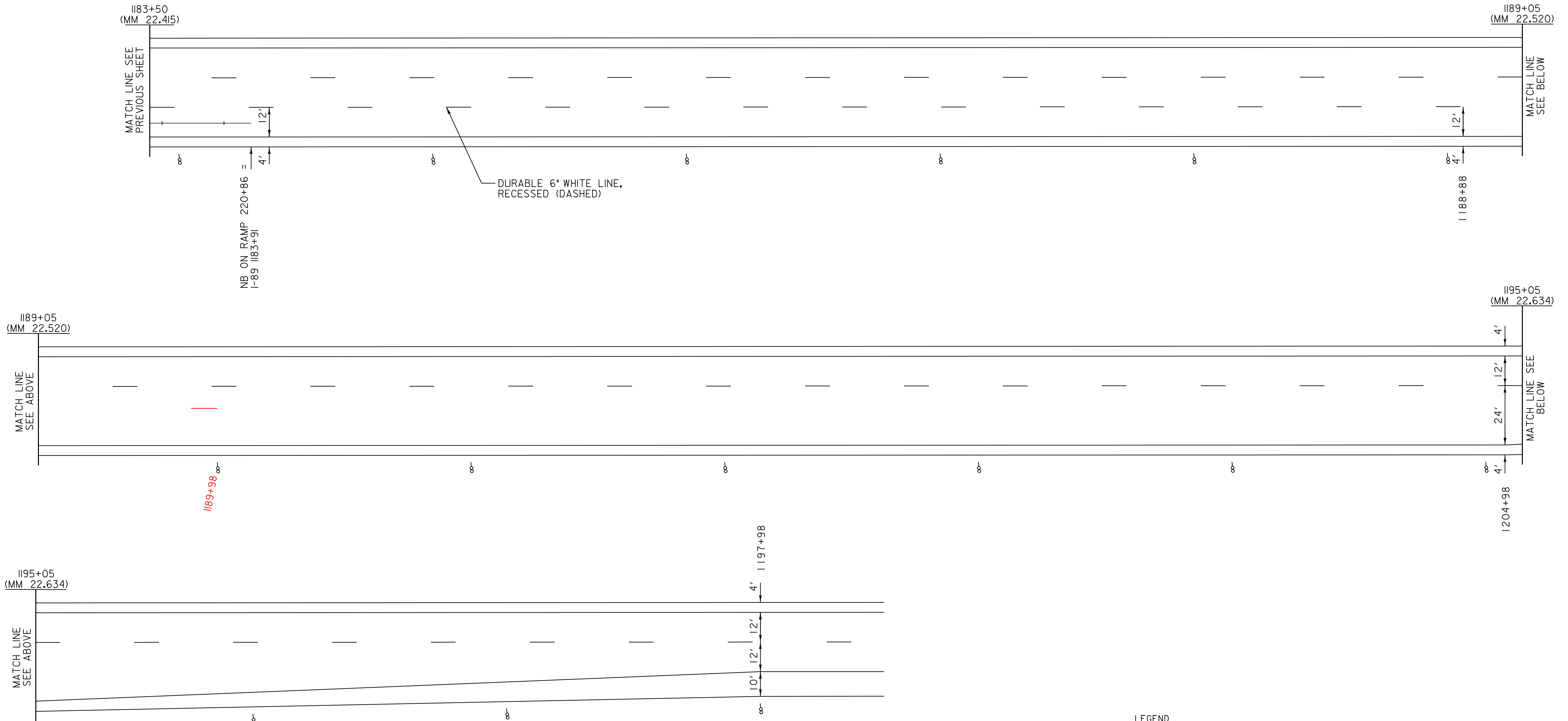
NOT TO SCALE

EXIT 3 - RAMP A NORTHBOUND ON RAMP

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES

TEMPORARY 6" WHITE LINE, PAINT
DURABLE 6" WHITE LINE, RECESSED
1183+50 TO 1188+88 DASHED RT 720' DASH

DELINEATORS
REFER TO STANDARDS E-197 AND
E-198 FOR PLACEMENT GUIDELINES



NOT TO SCALE

LEGEND

- R = REMOVE EXISTING
- S = SALVAGE
- R&S = REMOVE AND SALVAGE
- N = NEW
- RET = RETAIN
- B-B = BACK TO BACK
- = EXISTING GUARDRAIL
- - - = PROPOSED GUARDRAIL
- = TYPE I DELINEATOR, WHITE
- = TYPE I DELINEATOR, AMBER
- = TYPE II DELINEATOR, WHITE
- = TYPE III DELINEATOR, RIGHT
- = TYPE III DELINEATOR, LEFT

RAMP DETAIL #5

PROJECT NAME: ROYALTON-BETHEL	
PROJECT NUMBER: IM 089-1(54)	
FILE NAME: p06a198.dgn	PLOT DATE: 28-JUN-2010 15:12
PROJECT LEADER: PTS	DRAWN BY: MRS
DESIGNED BY: NULL	CHECKED BY: PTS
IPARM FILE NAME: p06a198rds.1	SHEET 18 OF 37

EXIT 3 - RAMP C SOUTHBOUND ON RAMP

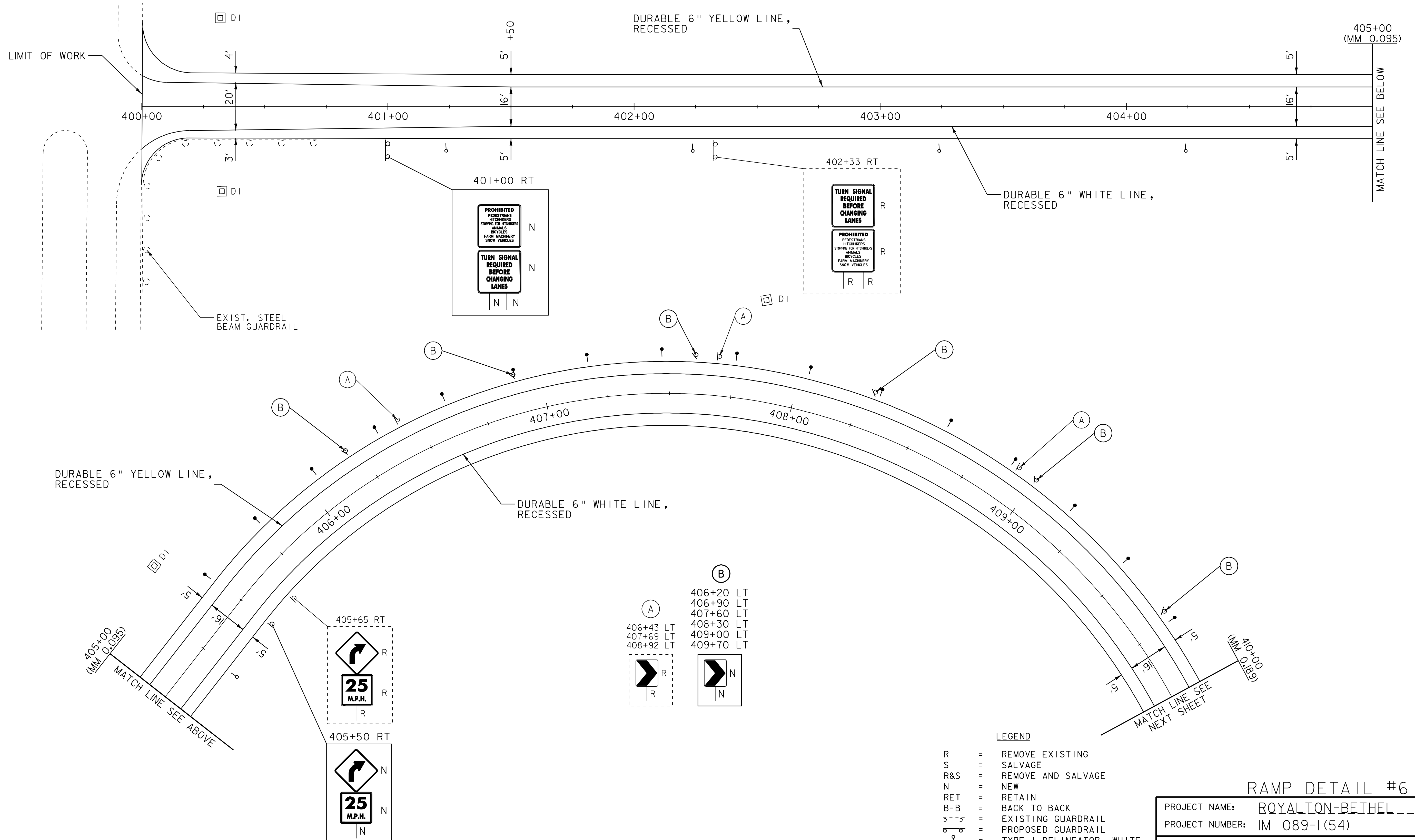
SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES

TEMPORARY 6" WHITE LINE, PAINT
DURABLE 6" WHITE LINE, RECESSED
400+00 TO 410+00 SOLID RT

TEMPORARY 6" YELLOW LINE, PAINT
DURABLE 6" YELLOW LINE, RECESSED
400+00 TO 410+00 SOLID LT

DELINEATORS
REFER TO STANDARDS E-197 AND
E-198 FOR PLACEMENT GUIDELINES

REMOVING SIGNS
AS SHOWN - 7



NOT TO SCALE

LEGEND

- R = REMOVE EXISTING
- S = SALVAGE
- R&S = REMOVE AND SALVAGE
- N = NEW
- RET = RETAIN
- B-B = BACK TO BACK
- S = EXISTING GUARDRAIL
- - - - = PROPOSED GUARDRAIL
- = TYPE I DELINEATOR, WHITE
- = TYPE I DELINEATOR, AMBER
- = TYPE II DELINEATOR, WHITE
- = TYPE III DELINEATOR, RIGHT
- = TYPE III DELINEATOR, LEFT

RAMP DETAIL #6

PROJECT NAME: ROYALTON-BETHEL	PLOT DATE: 28-JUN-2010 15:12
PROJECT NUMBER: IM 089-1(54)	DRAWN BY: MRS
FILE NAME: p06a198.dgn	CHECKED BY: PTS
PROJECT LEADER: PTS	DESIGNED BY: NULL
IPARM FILE NAME: p06a198r.d6.1	SHEET 19 OF 37

EXIT 3 - RAMP C SOUTHBOUND ON RAMP

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES

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

410+00 TO 412+73 SOLID RT
1170+53 TO 1172+53 DASHED LT

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

410+00 TO 411+48 SOLID LT

TEMPORARY 12" WHITE LINE, PAINT
DURABLE 12" WHITE LINE, RECESSED

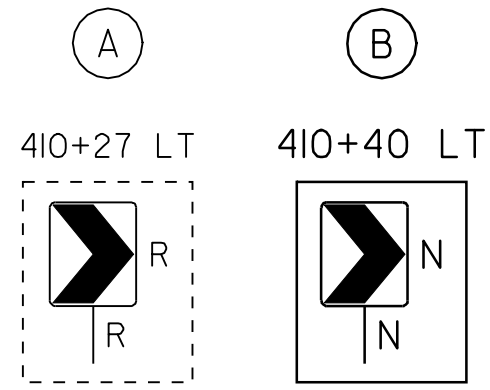
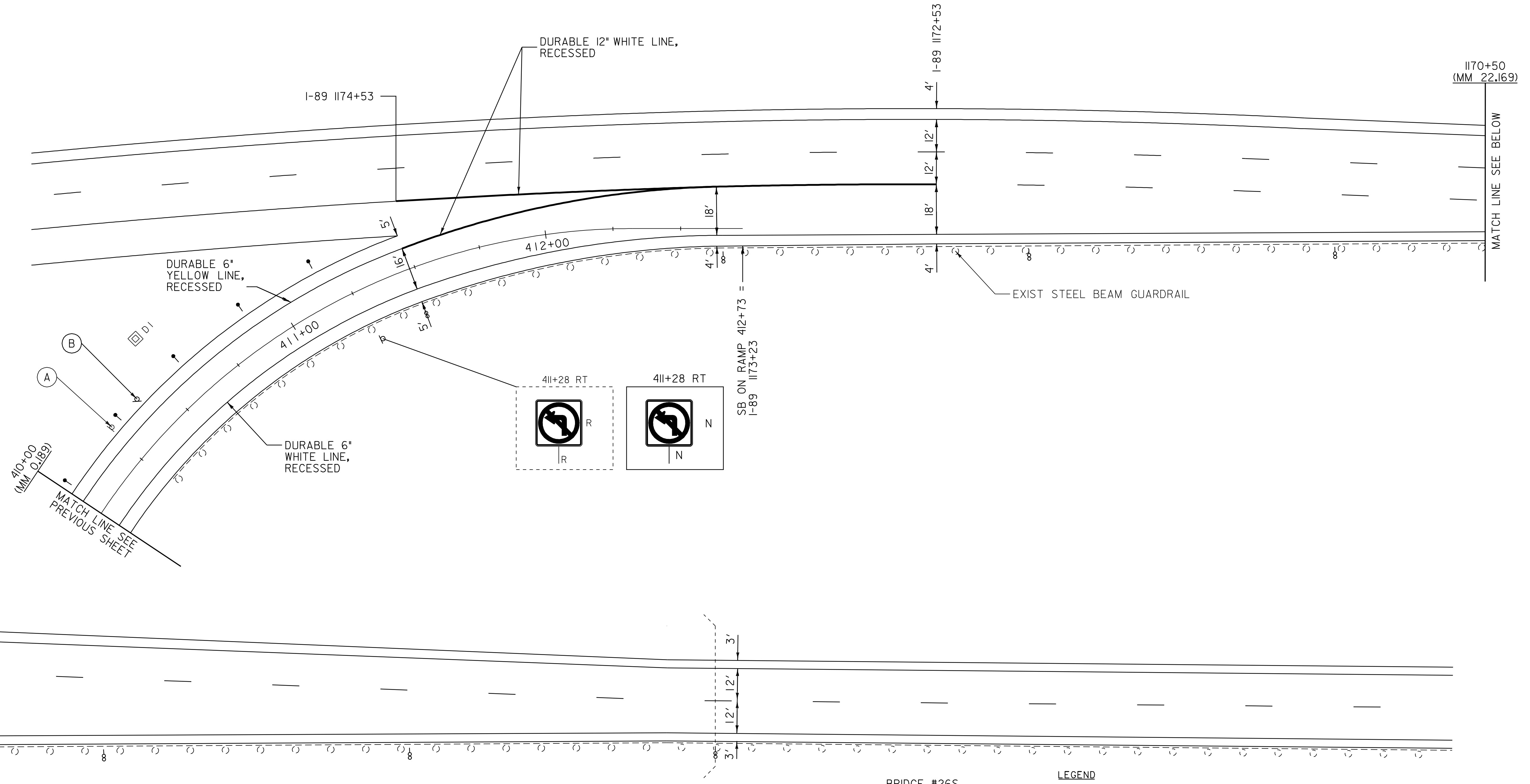
411+48 TO 412+63 SOLID LT
1172+53 TO 1174+53 SOLID LT

DELINEATORS

REFER TO STANDARDS E-197 AND
E-198 FOR PLACEMENT GUIDELINES

REMOVING SIGNS

AS SHOWN - 2



BRIDGE #26S
1157+29
(MM 21.918)

LEGEND

- R = REMOVE EXISTING
- S = SALVAGE
- R&S = REMOVE AND SALVAGE
- N = NEW
- RET = RETAIN
- B-B = BACK TO BACK
- = EXISTING GUARDRAIL
- - - = PROPOSED GUARDRAIL
- = TYPE I DELINEATOR, WHITE
- = TYPE I DELINEATOR, AMBER
- = TYPE II DELINEATOR, WHITE
- = TYPE III DELINEATOR, RIGHT
- = TYPE III DELINEATOR, LEFT

RAMP DETAIL #7

PROJECT NAME: ROYALTON-BETHEL
PROJECT NUMBER: IM 089-1(54)

FILE NAME: p06a198.dgn
PROJECT LEADER: PTS
DESIGNED BY: NULL
IPARM FILE NAME: p06a198r.d7.1

PLOT DATE: 28-JUN-2010 15:12
DRAWN BY: MRS
CHECKED BY: PTS
SHEET 20 OF 37

NOT TO SCALE

TEMPORARY 6" WHITE LINE, PAINT
 DURABLE 6" WHITE LINE, RECESSED
 300+00 TO 312+00 SOLID LT

TEMPORARY 24" STOP BAR, PAINT
 DURABLE 24" STOP BAR, THERMOPLASTIC
 300+04 LT TO RT

EXIT 3 - RAMP D SOUTHBOUND OFF RAMP

SEE STANDARDS E-191, E-192 AND E-193
 FOR PAVEMENT MARKING GUIDELINES

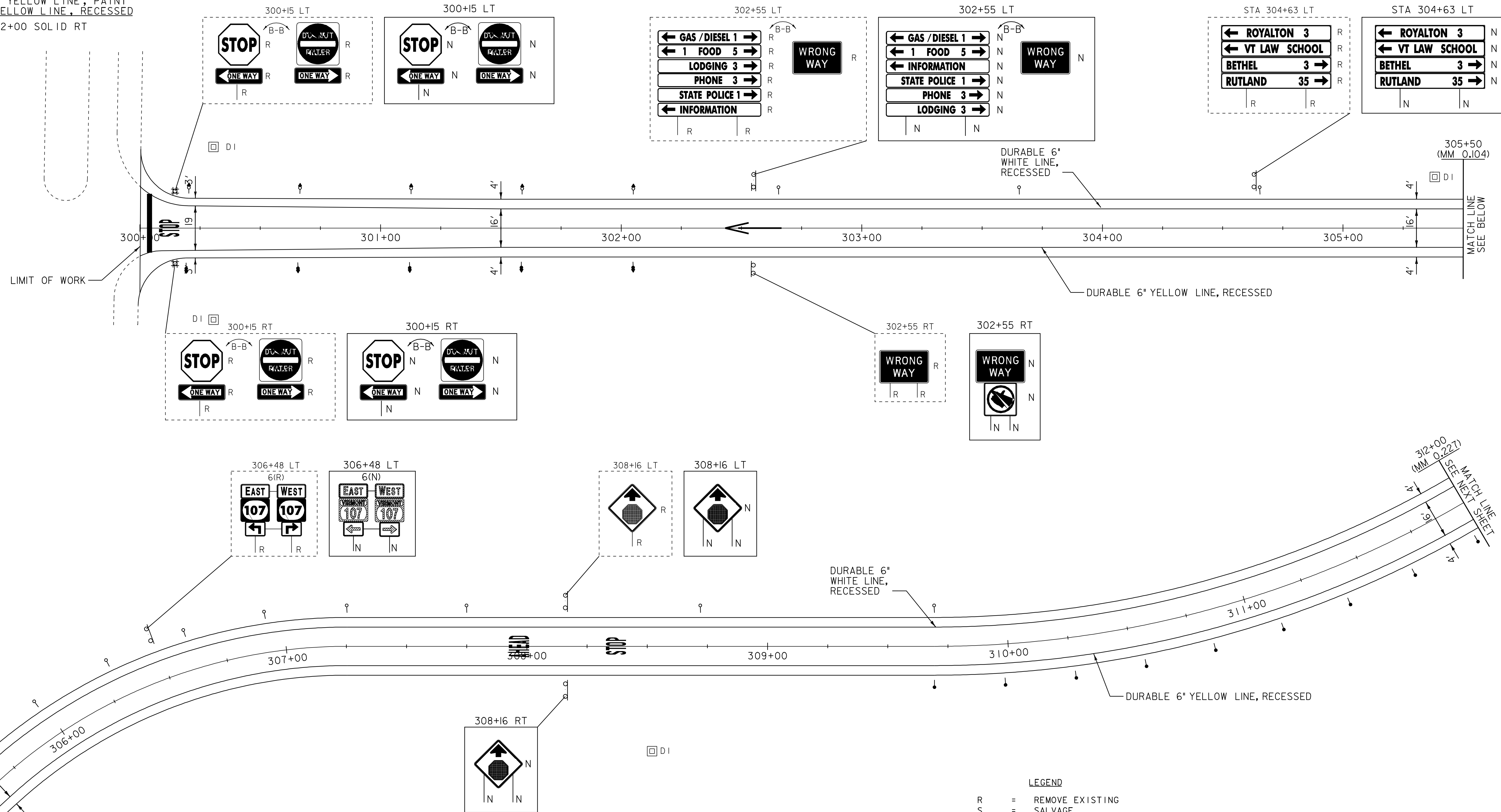
DELINEATORS
 REMOVING SIGNS
 AS SHOWN - 27

TEMPORARY LETTER OR SYMBOL, PAINT
 DURABLE LETTER OR SYMBOL, THERMOPLASTIC

300+12 CL "STOP"
 302+57 CL WRONG WAY ARROW
 307+96 CL "AHEAD"
 308+36 CL "STOP"

REFER TO STANDARDS E-197 AND
 E-198 FOR PLACEMENT GUIDELINES

TEMPORARY 6" YELLOW LINE, PAINT
 DURABLE 6" YELLOW LINE, RECESSED
 300+00 TO 312+00 SOLID RT



LEGEND

R	= REMOVE EXISTING
S	= SALVAGE
R&S	= REMOVE AND SALVAGE
N	= NEW
RET	= RETAIN
B-B	= BACK TO BACK
---	= EXISTING GUARDRAIL
- - -	= PROPOSED GUARDRAIL
○	= TYPE I DELINEATOR, WHITE
○	= TYPE II DELINEATOR, AMBER
○	= TYPE III DELINEATOR, WHITE
○	= TYPE III DELINEATOR, RIGHT
○	= TYPE III DELINEATOR, LEFT

RAMP DETAIL #8

PROJECT NAME: ROYALTON-BETHEL
 PROJECT NUMBER: IM 089-1(54)

FILE NAME: p06a198.dgn
 PROJECT LEADER: PTS
 DESIGNED BY: NULL
 IPARM FILE NAME: pal98a10.1

PLOT DATE: 28-JUN-2010 15:12
 DRAWN BY: MRS
 CHECKED BY: PTS
 SHEET 21 OF 37

NOT TO SCALE

EXIT 3 - RAMP D SOUTHBOUND OFF RAMP

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES

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

312+00 TO 315+27 SOLID LT
314+34 TO 315+27 DASHED RT
1183+52 TO 1185+90 DASHED LT
1185+90 TO 1190+80 DOTTED LT

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

312+00 TO 313+13 SOLID RT

TEMPORARY 12" WHITE LINE, PAINT
DURABLE 12" WHITE LINE, RECESSED

313+13 TO 313+93 SOLID RT
313+13 TO 313+93 SOLID RT (GORE STRIPES)
1181+39 TO 1182+62 SOLID LT

REMOVAL AND DISPOSAL OF GUARDRAIL
1183+60.0 TO 1188+30.0 LT

STEEL BEAM GUARDRAIL, GALVANIZED
1183+60.0 TO 1188+60.0 LT

ANCHOR FOR STEEL BEAM RAIL

1183+60.0 LT
1186+62.0 LT
1188+60.0 LT

REHAB. DROP INLETS, CATCH BASINS,
OR MANHOLES, CLASS I, CLASS II OR CLASS III

1183+89 LT (DI)

TREATED TIMBER CURB

1183+90 TO 1186+62 LT

12" CSP .064

1187+35 TO 1188+95 LT

DELINEATORS

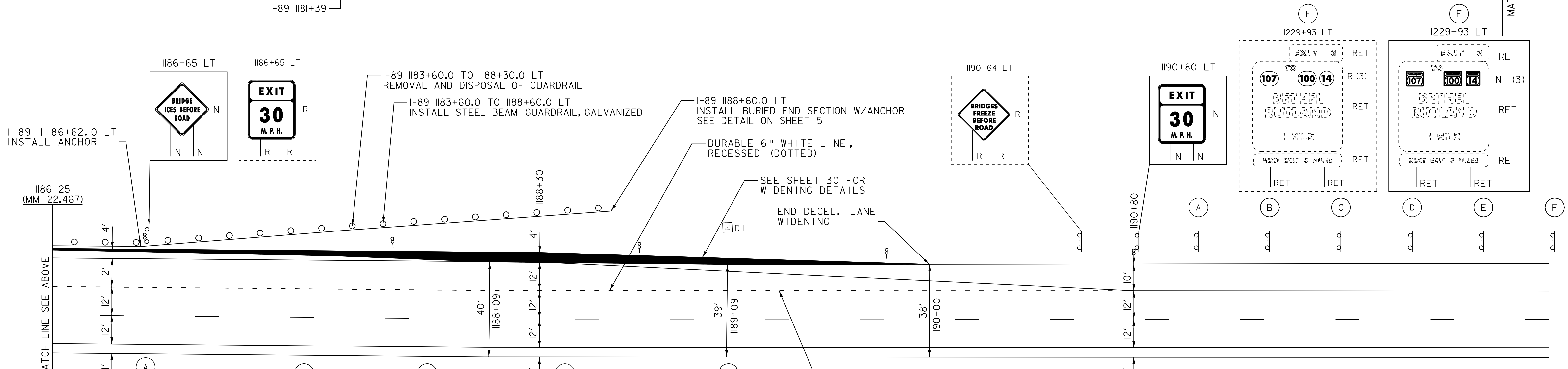
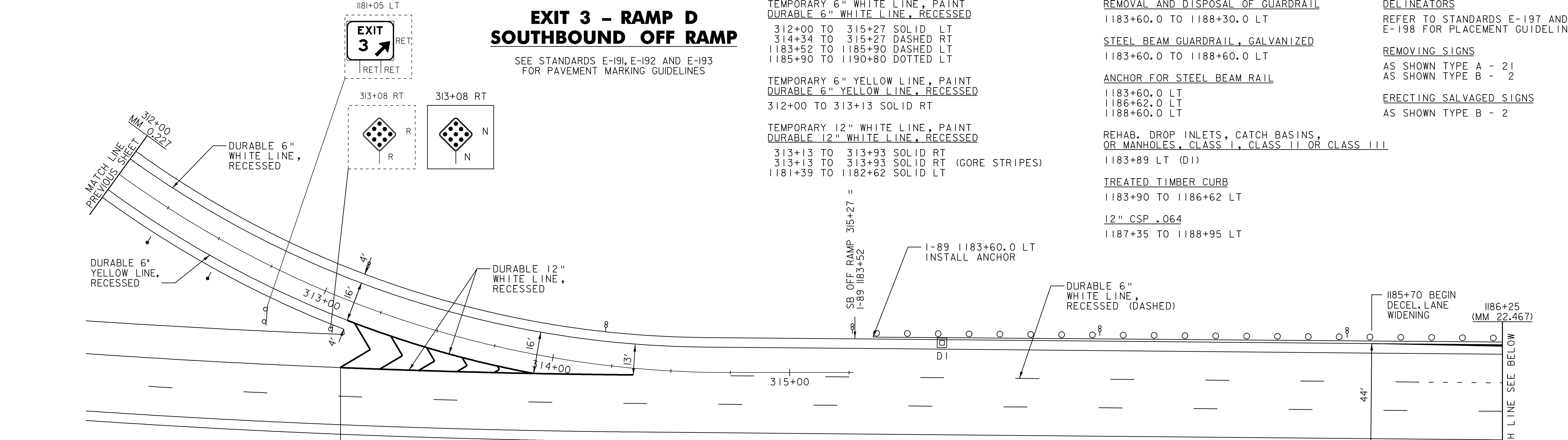
REFER TO STANDARDS E-197 AND
E-198 FOR PLACEMENT GUIDELINES

REMOVING SIGNS

AS SHOWN TYPE A - 21
AS SHOWN TYPE B - 2

ERECTING SALVAGED SIGNS

AS SHOWN TYPE B - 2



LEGEND

- R = REMOVE EXISTING
- S = SALVAGE
- R&S = REMOVE AND SALVAGE
- N = NEW
- RET = RETAIN
- B-B = BACK TO BACK
- = EXISTING GUARDRAIL
- = PROPOSED GUARDRAIL
- = SHOULDER WIDENING
- = TYPE I DELINEATOR, WHITE
- = TYPE I DELINEATOR, AMBER
- = TYPE II DELINEATOR, WHITE
- = TYPE III DELINEATOR, RIGHT
- = TYPE III DELINEATOR, LEFT

RAMP DETAIL #9

PROJECT NAME: ROYALTON-BETHEL

PROJECT NUMBER: IM 089-1(54)

FILE NAME: p06a198.dgn

PROJECT LEADER: PTS

DESIGNED BY: NULL

IPARM FILE NAME: p06a198r.d9.1

PLOT DATE: 28-JUN-2010 15:12

DRAWN BY: MRS

CHECKED BY: PTS

SHEET 22 OF 37



1.5" Radius, 0.5" Border, White on Green; BLUE
 Standard Arrow Custom 4.8" X 4.3" 180°; [1] C; [FOOD] C; [5] C;
 Standard Arrow Custom 4.8" X 4.3" 0°;



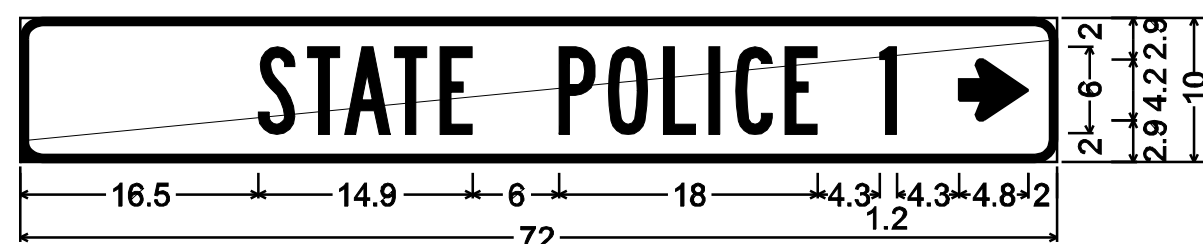
1.5" Radius, 0.5" Border, White on Green; BLUE
 [PHONE] C; [3] C; Standard Arrow Custom 4.8" X 4.3" 0°;



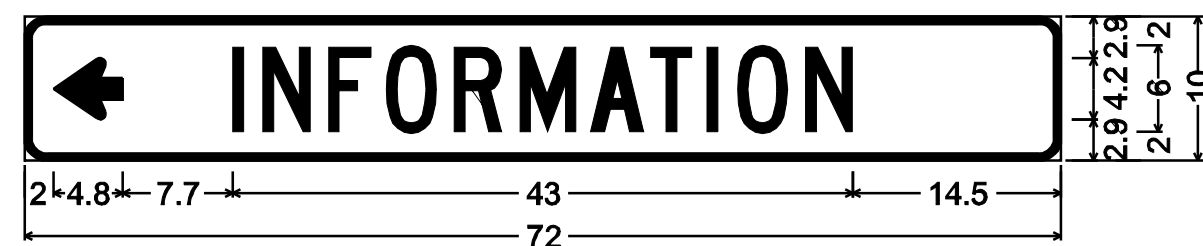
1.5" Radius, 0.5" Border, White on Green; BLUE
 Standard Arrow Custom 4.8" X 4.3" 180°; [GAS/DIESEL] C; [1] C;
 Standard Arrow Custom 4.8" X 4.3" 0°;



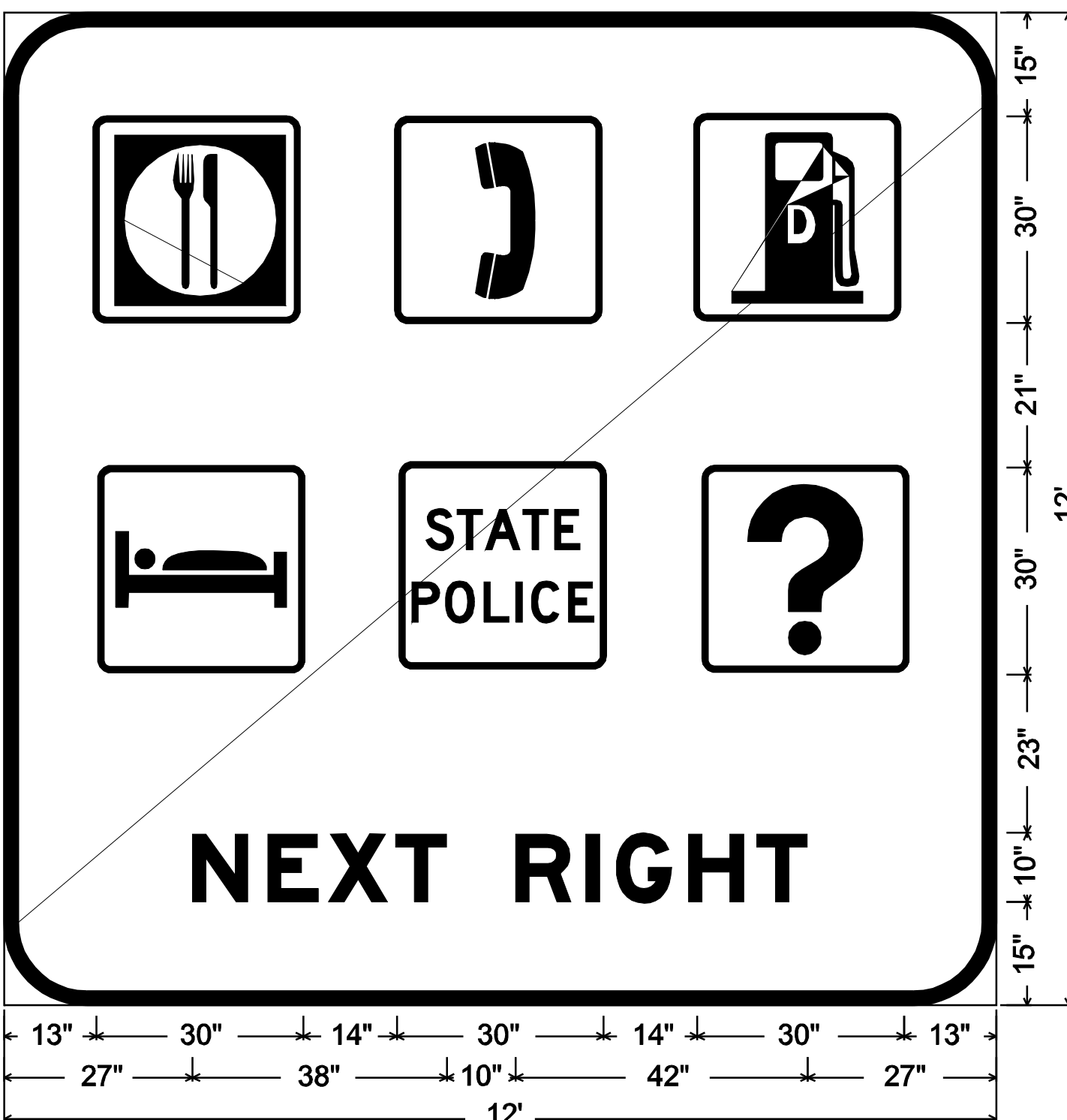
1.5" Radius, 0.5" Border, White on Green; BLUE
 [LODGING] C; [3] C; Standard Arrow Custom 4.8" X 4.3" 0°;



1.5" Radius, 0.5" Border, White on Green; BLUE
 [STATE POLICE] B; [1] B; Standard Arrow Custom 4.8" X 4.3" 0°;

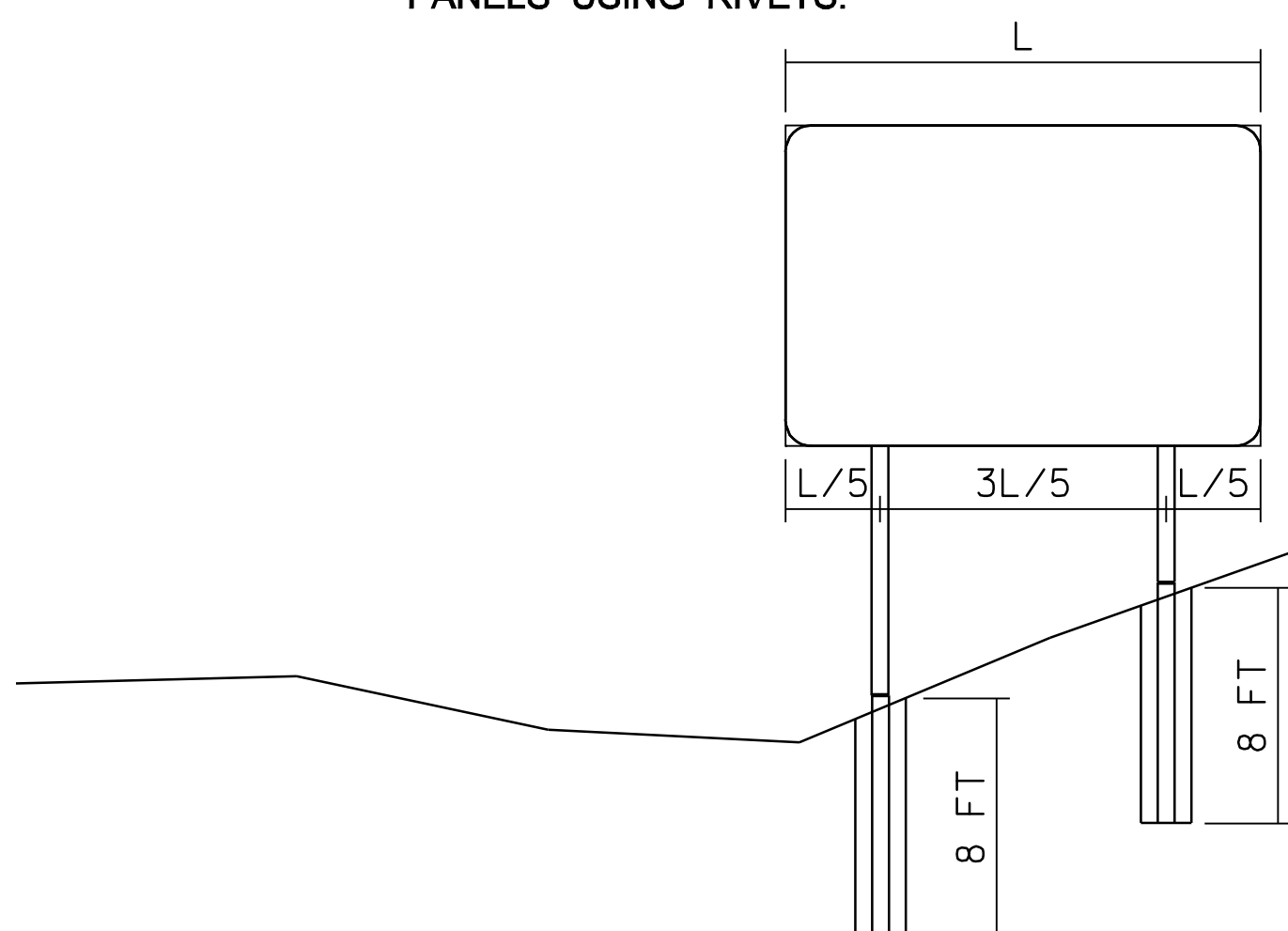


1.5" Radius, 0.5" Border, White on Green; BLUE
 Standard Arrow Custom 4.8" X 4.3" 180°; [INFORMATION] C;



12" Radius, 2" Border, White on Blue;
 [NEXT RIGHT] E Mod 2K;

NOTE:
 INDIVIDUAL SERVICE PANELS SHALL BE MOUNTED
 INDEPENDENTLY ONTO THE TYPE B EXTRUDED
 PANELS USING RIVETS.

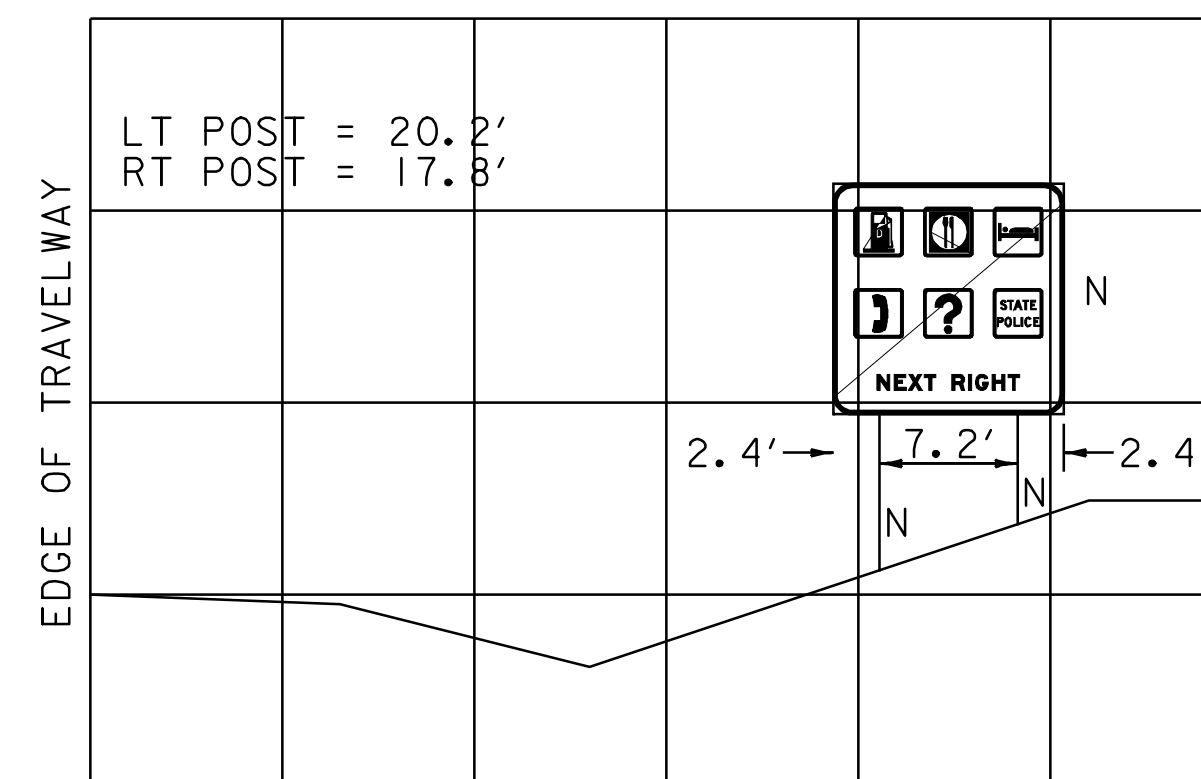


W-SHAPE FOOTING DETAIL

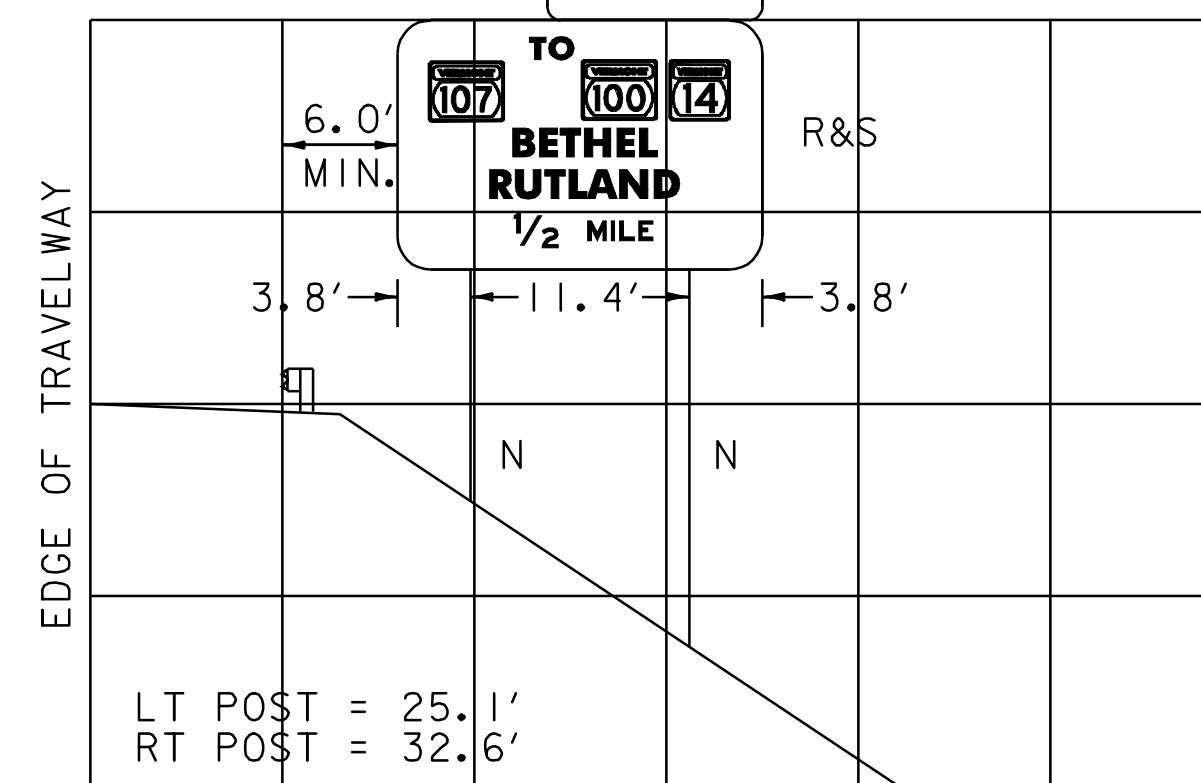
NOTES

1. THE LONGER CONCRETE FOOTINGS SHALL BE USED AT POST LOCATIONS ON STEEP SIDE SLOPES AS IDENTIFIED ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.
2. FORMS/TUBES FOR THE LONGER CONCRETE FOOTINGS SHALL BE SMOOTH. CORRUGATED PIPE SHALL NOT BE USED.
3. REFER TO VTRANS STANDARD E-161 FOR ADDITIONAL NOTES AND DETAILS REGARDING CONCRETE FOOTINGS.
4. PAYMENT FOR THE LONGER CONCRETE FOOTINGS SHALL BE PAID FOR UNDER ITEM 900.620, SPECIAL PROVISION (8' FOUNDATION FOR W-SHAPE STEEL POST, 30 INCH DIAMETER).

1203 + 70



1211 + 70



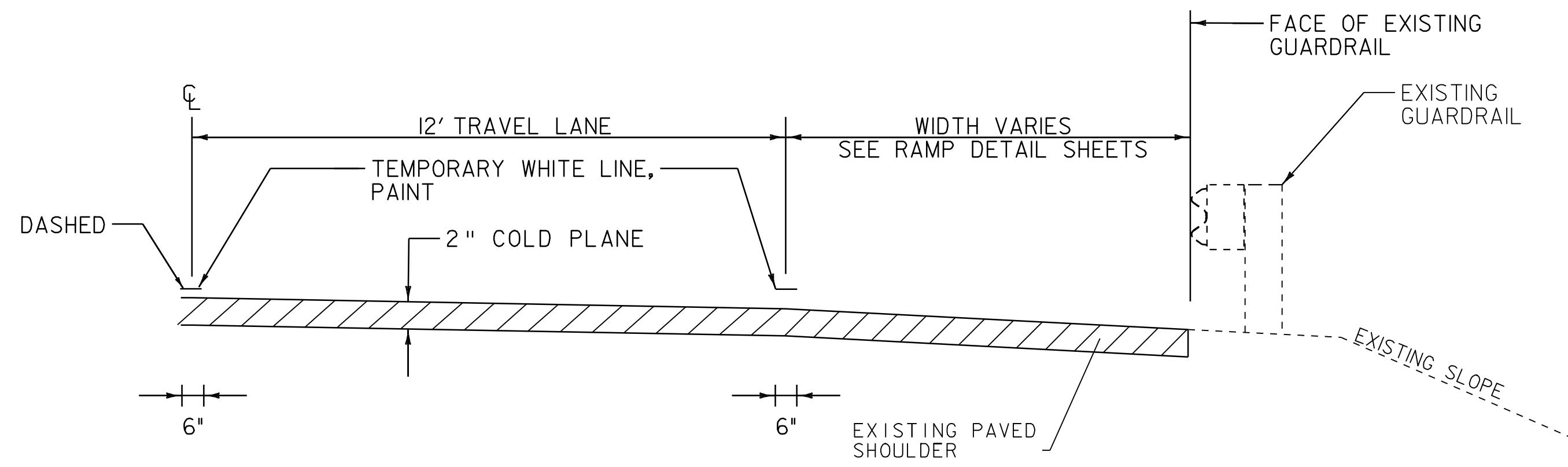
GENERAL NOTES

1. ALL NEW SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THESE PLANS, MUTCD, APPLICABLE VTRANS E-SERIES STANDARDS OR AS DIRECTED BY THE RESIDENT ENGINEER.
2. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH APPLICABLE VTRANS E-SERIES STANDARDS AND PART 6 OF THE MUTCD OR AS DIRECTED BY THE RESIDENT ENGINEER.
3. TEXT LAYOUT DIMENSIONS AND DESIGN OF SYMBOLS FOR STANDARD SIGNS NOT DETAILED ON THESE PLANS OR IN THE E-SERIES STANDARDS CAN BE FOUND IN THE LATEST PUBLICATION OF THE MUTCD STANDARD HIGHWAY SIGNS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO PRIVATE OR PUBLIC PROPERTY CAUSED BY THE CONTRACTOR, AT THE SOLE COST OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL ERECT NEW POSTS AND MOUNT NEW SIGNS BEHIND EXISTING SIGNS PRIOR TO REMOVING THE OLD SIGN AND POST, WHERE APPLICABLE, OR AS DIRECTED BY THE RESIDENT ENGINEER.
6. ANY REFERENCE TO "LEFT" OR "RIGHT" REFERS TO THE DIRECTION OF STATIONING AND NOT THE DIRECTION OF TRAFFIC.
7. DELINEATORS: NEW MAINLINE DELINEATORS WITH OR WITHOUT MILEPOST PLAQUES ARE NOT SHOWN ON THE PLANS. REFER TO STANDARD E-197 AND SHEETS 19 - 27 FOR GENERAL PLACEMENT AND SPACING CRITERIA. AN ESTIMATED QUANTITY OF DELINEATORS W/STEEL POSTS AND REMOVAL OF EXISTING DELINEATORS HAS BEEN INCLUDED. DELINEATORS TO BE REMOVED SHALL NOT BE CUT BUT SHALL BE COMPLETELY REMOVED FROM THE GROUND.

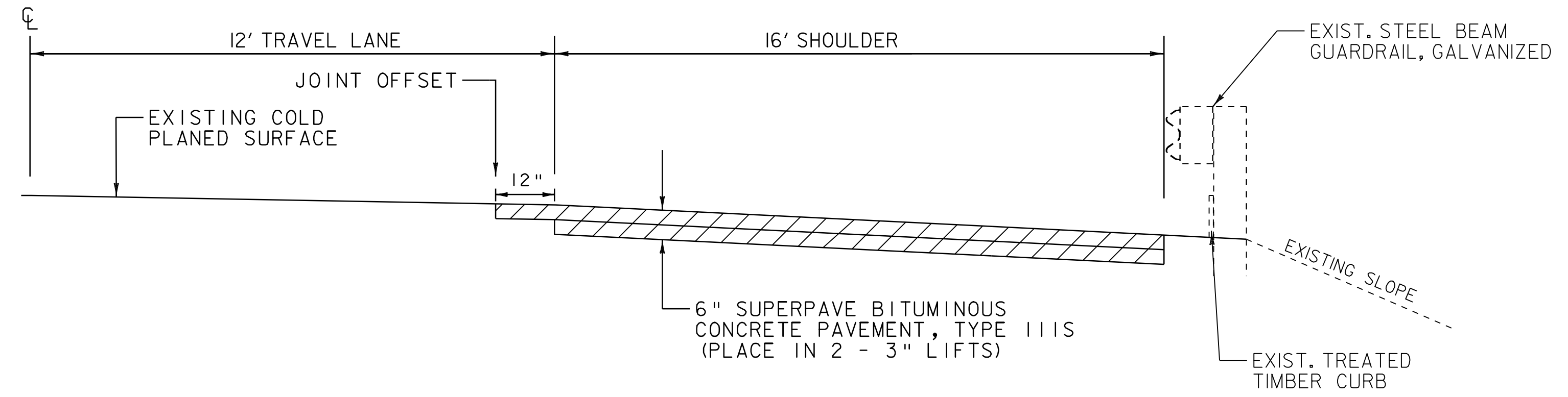
NOT TO SCALE

SIGN DETAILS

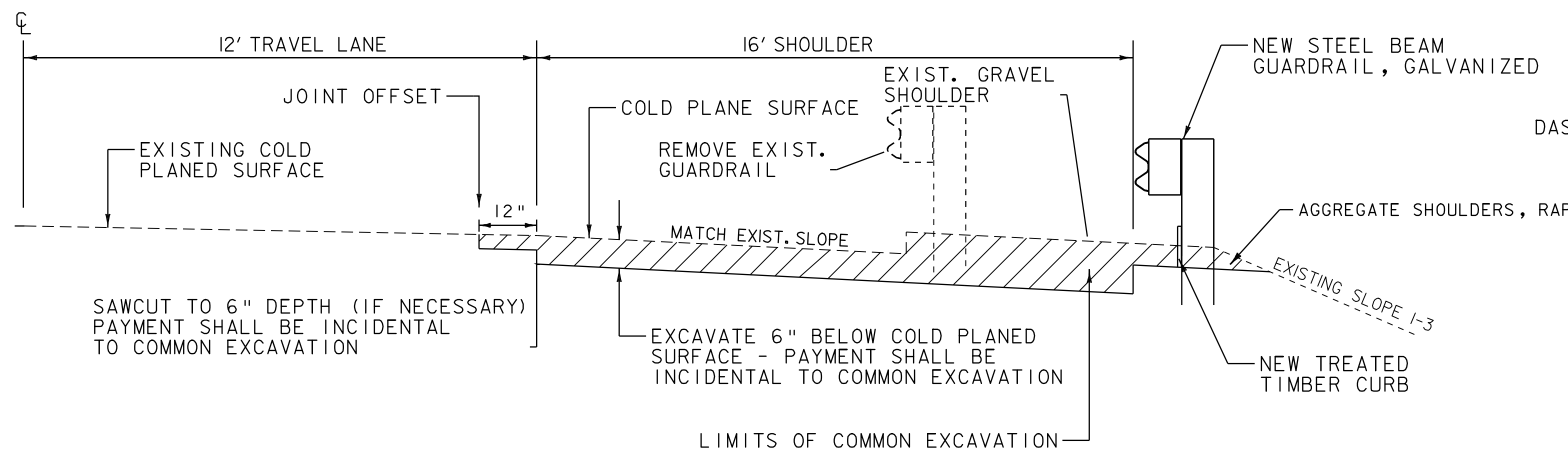
PROJECT NAME:	ROYALTON-BETHEL
PROJECT NUMBER:	IM 089-1(54)
FILE NAME:	p06a198.dgn
PROJECT LEADER:	PTS
DESIGNED BY:	NULL
IPARM FILE NAME:	p06a198sd1
PLOT DATE:	28-JUN-2010 15:12
DRAWN BY:	MRS
CHECKED BY:	PTS
SHEET	29 OF 37



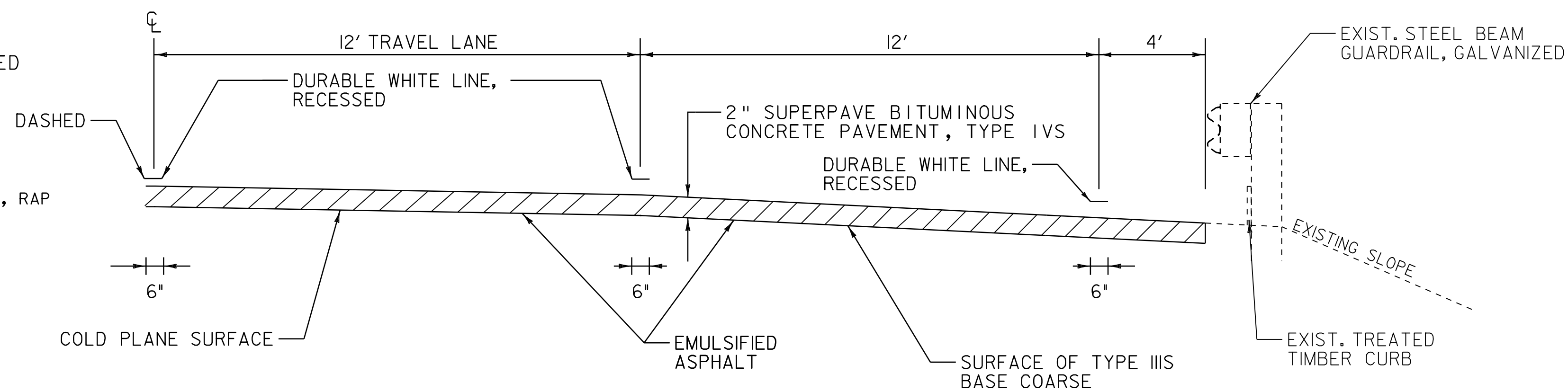
PHASE I



PHASE III



PHASE II



PHASE IV

NOTE:

- I. THE CONTRACTOR SHALL NOT LEAVE THE UNPROTECTED 6" DROP OFF EXPOSED TO VEHICULAR TRAFFIC. THE CONTRACTOR SHALL EXCAVATE TO A 6" DEPTH AND OVERLAY WITH 6" OF SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE III S IN THE SAME WORKDAY, UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER.

NOT TO SCALE

STA 1185+70 TO 1190+00
DECEL LANE WIDENING DETAILS

PROJECT NAME: ROYALTON-BETHEL	
PROJECT NUMBER: IM 089-1(54)	
FILE NAME: p06a198.dgn	PLOT DATE: 28-JUN-2010 15:12
PROJECT LEADER: PTS	DRAWN BY: MRS
DESIGNED BY: NULL	CHECKED BY: PTS
IPARM FILE NAME: p06a198d1wd.1	SHEET 30 OF 37

GUARDRAIL TREATMENT AT BULLNOSE LOCATION - BRIDGE

BRIDGE 26 NORTHBOUND & SOUTHBOUND MM 21.918
INTERSTATE 89 OVER WHITE RIVER AND VT 107

REMOVAL AND DISPOSAL OF GUARDRAIL
 NB 1155+58.0 TO 1157+80.0 LT
 NB 1168+20.5 TO 1170+34.0 LT
 SB 1156+70.0 TO 1157+80.0 RT
 SB 1168+20.5 TO 1170+34.0 RT

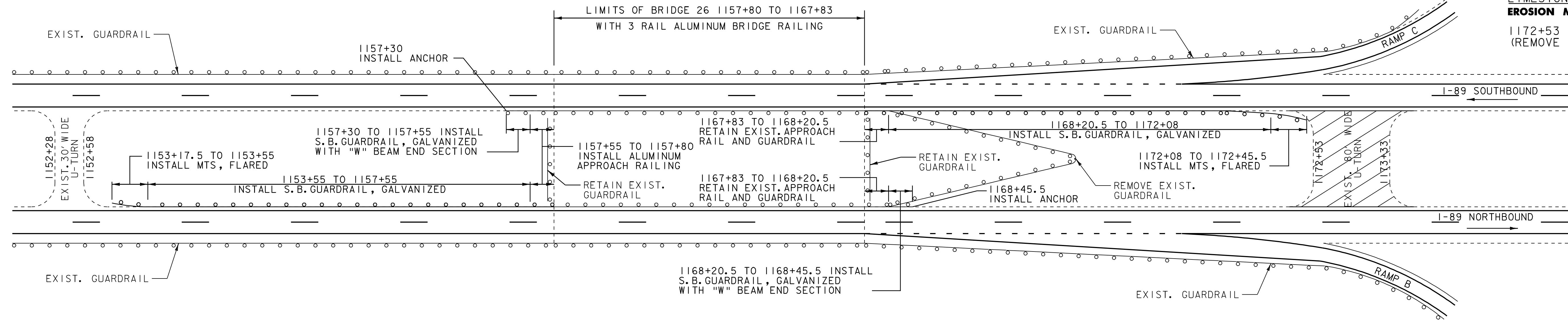
STEEL BEAM GUARDRAIL, GALVANIZED
 NB 1153+55.0 TO 1157+55.0 LT
 NB 1168+20.5 TO 1168+45.5 LT
 SB 1157+30.0 TO 1157+55.0 RT
 SB 1168+20.5 TO 1172+08.0 RT

ALUMINUM APPROACH RAILING
 NB 1157+55.0 TO 1157+80.0 LT
 SB 1157+55.0 TO 1157+80.0 RT

MANUFACTURED TERMINAL SECTION, FLARED DELINEATOR WITH STEEL POST
 NB 1153+17.5 TO 1153+55.0 LT
 SB 1172+08.0 TO 1172+45.5 RT

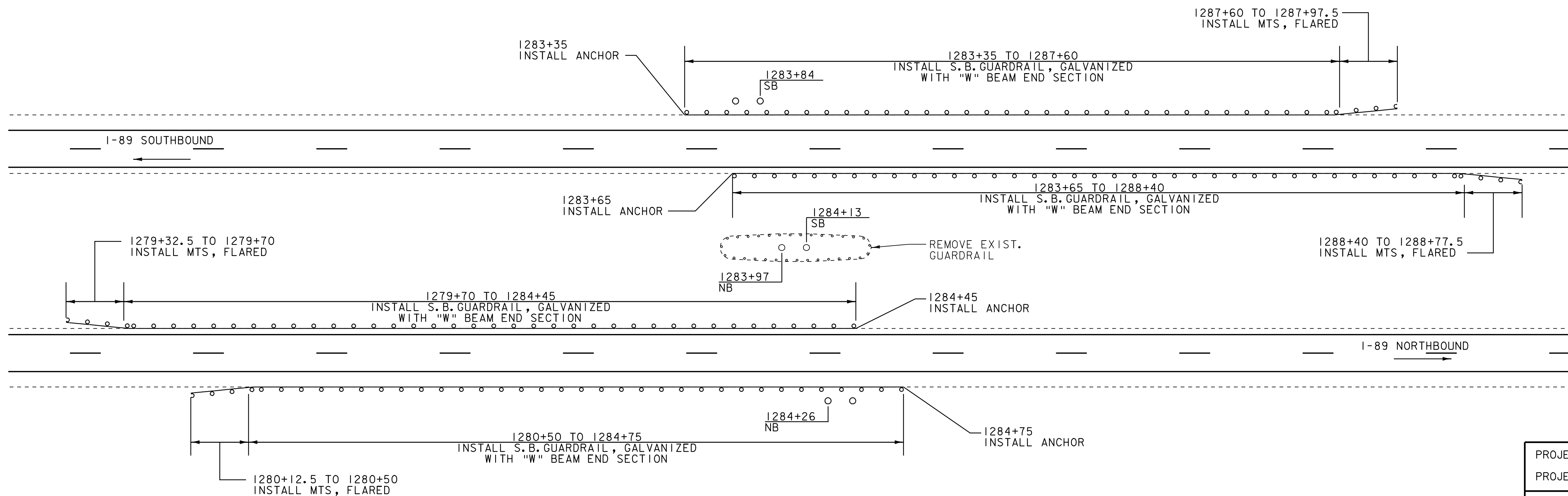
ANCHOR FOR STEEL BEAM RAIL
 NB 1168+45.5 LT
 SB 1157+30.0 RT

EXCAVATION OF SURFACES AND PAVEMENTS (PLACE 4" TOPSOIL, SEED, FERTILIZER, LIMESTONE AND **TEMPORARY EROSION MATTING**)
 1172+53 TO 1173+33
 (REMOVE U-TURN)



GUARDRAIL LOCATIONS - OVERPASS

BRIDGE 28 MM 24.348
TH 6 OVER INTERSTATE 89



REMOVAL AND DISPOSAL OF GUARDRAIL
 NB 1281+28.0 TO 1284+76.0 RT
 NB 1283+65.0 TO 1284+55.0 LT
 SB 1279+41.0 TO 1285+84.0 LT
 SB 1283+65.0 TO 1284+55.0 RT

STEEL BEAM GUARDRAIL, GALVANIZED
 NB 1279+70.0 TO 1284+45.0 LT
 NB 1280+50.0 TO 1284+75.0 RT
 SB 1283+35.0 TO 1287+60.0 LT
 SB 1283+65.0 TO 1288+40.0 RT

MANUFACTURED TERMINAL SECTION, FLARED DELINEATOR WITH STEEL POST
 NB 1279+32.5 TO 1279+70.0 LT
 NB 1280+12.5 TO 1280+50.0 RT
 SB 1287+60.0 TO 1287+97.5 LT
 SB 1288+40.0 TO 1288+77.5 RT

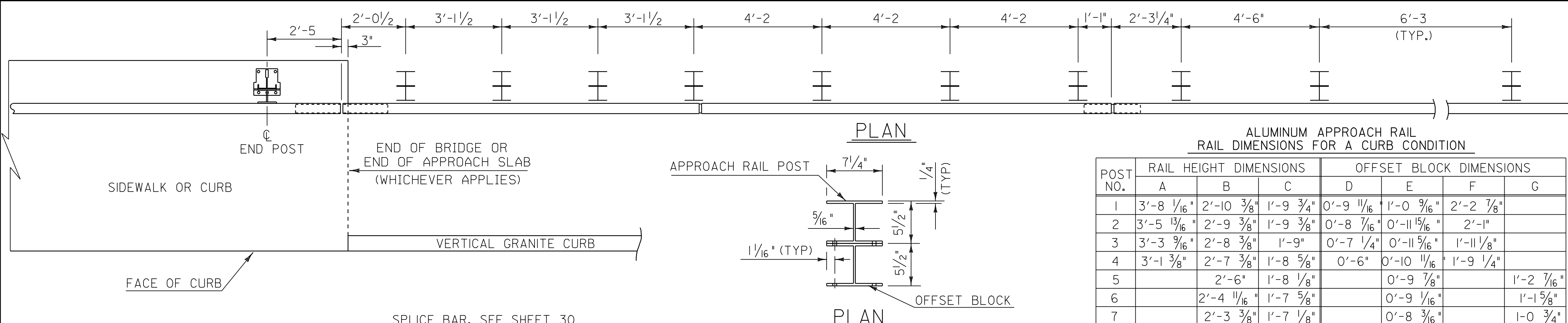
ANCHOR FOR STEEL BEAM RAIL
 NB 1284+45 LT
 NB 1284+75 RT
 SB 1283+35 LT
 SB 1283+65 RT

BRIDGE/GUARDRAIL TREATMENT DETAILS

PROJECT NAME: ROYALTON-BETHEL	
PROJECT NUMBER: IM 089-1(54)	
FILE NAME: p06a198.dgn	PLOT DATE: 28-JUN-2010 15:2
PROJECT LEADER: PTS	DRAWN BY: MRS
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: p06a198bg+td.l	SHEET 31 OF 37

NOT TO SCALE

REVISED 02-17-09

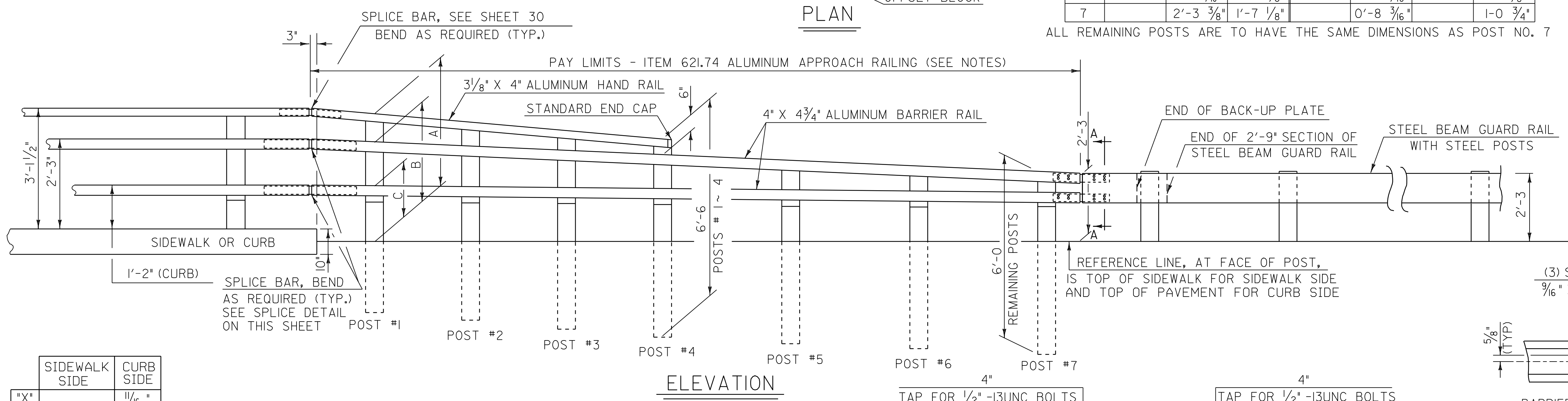


**ALUMINUM APPROACH RAIL
RAIL DIMENSIONS FOR A CURB CONDITION**

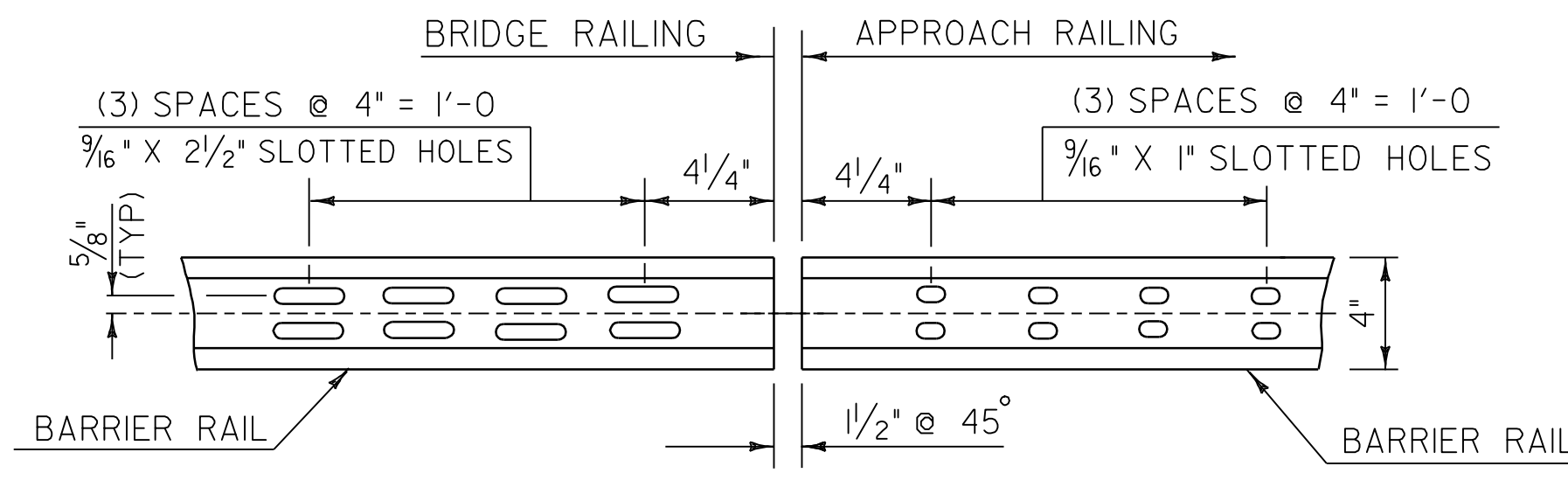
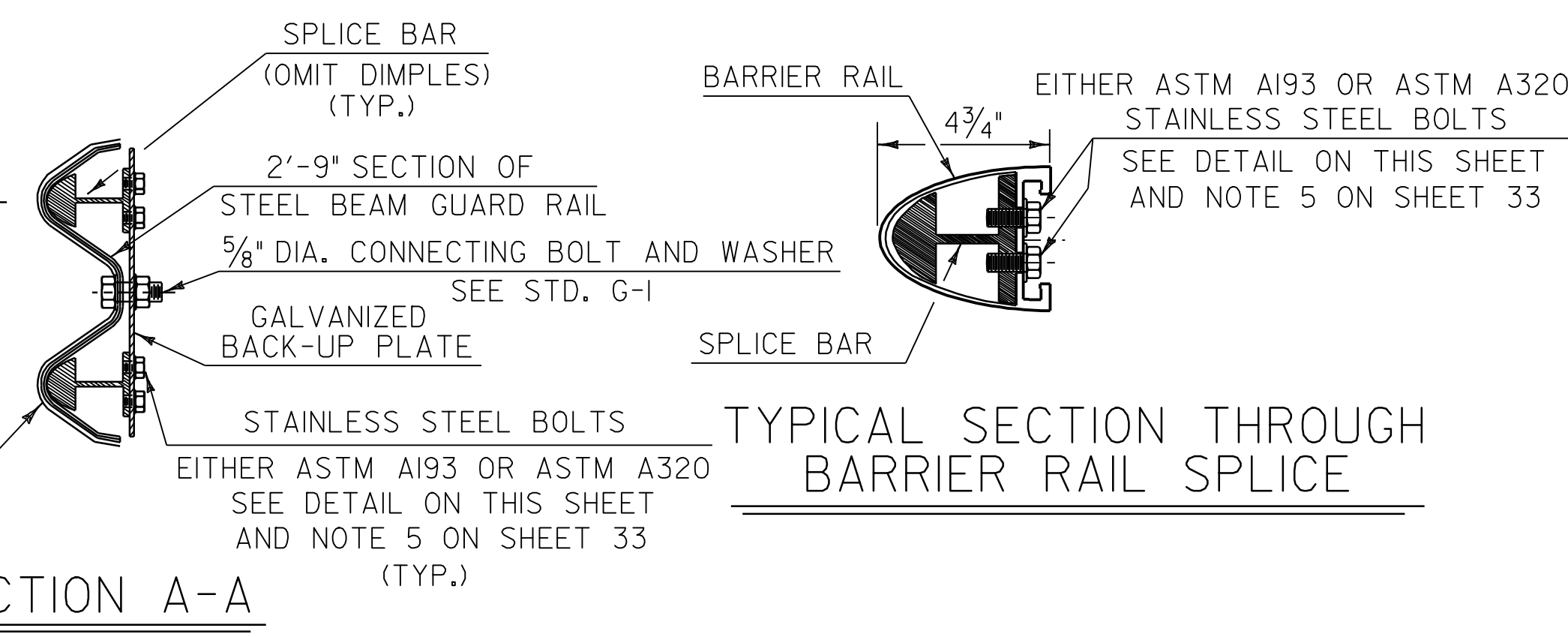
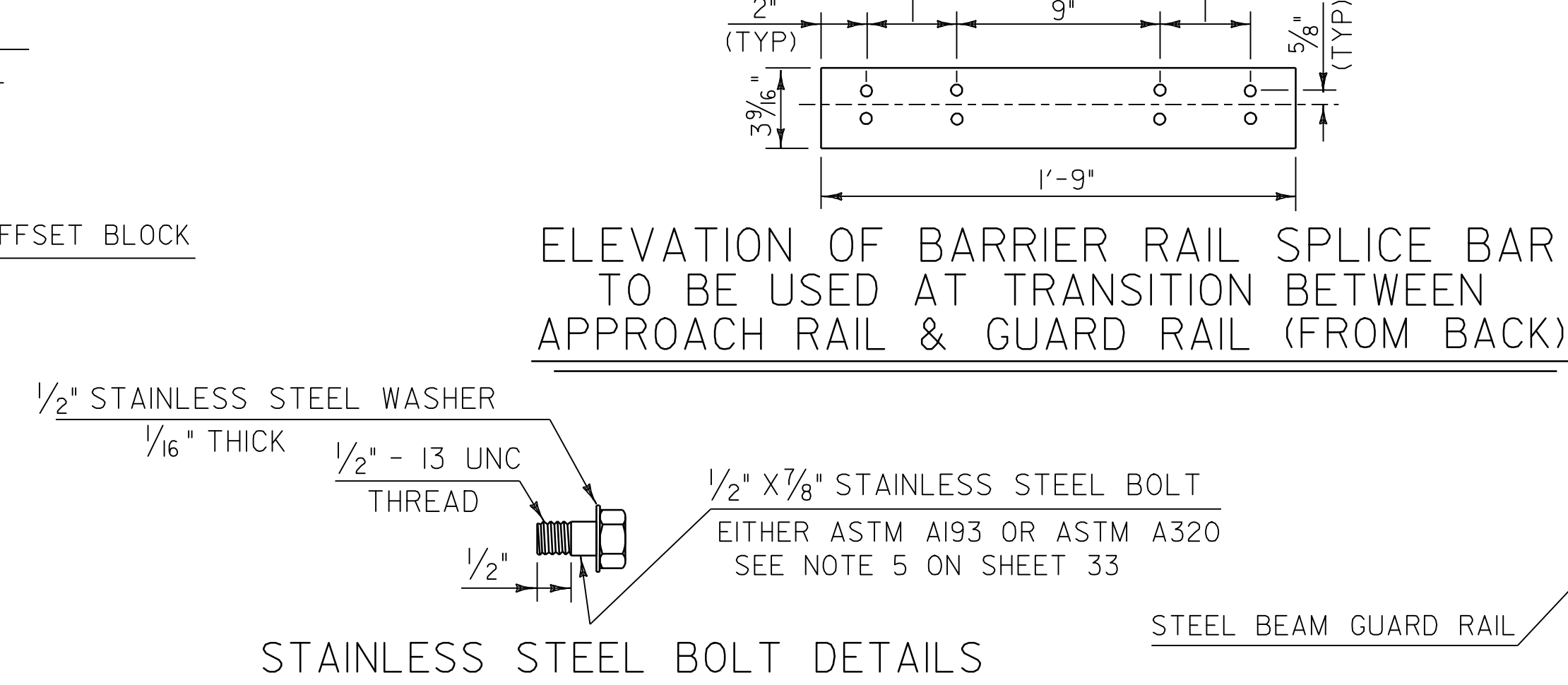
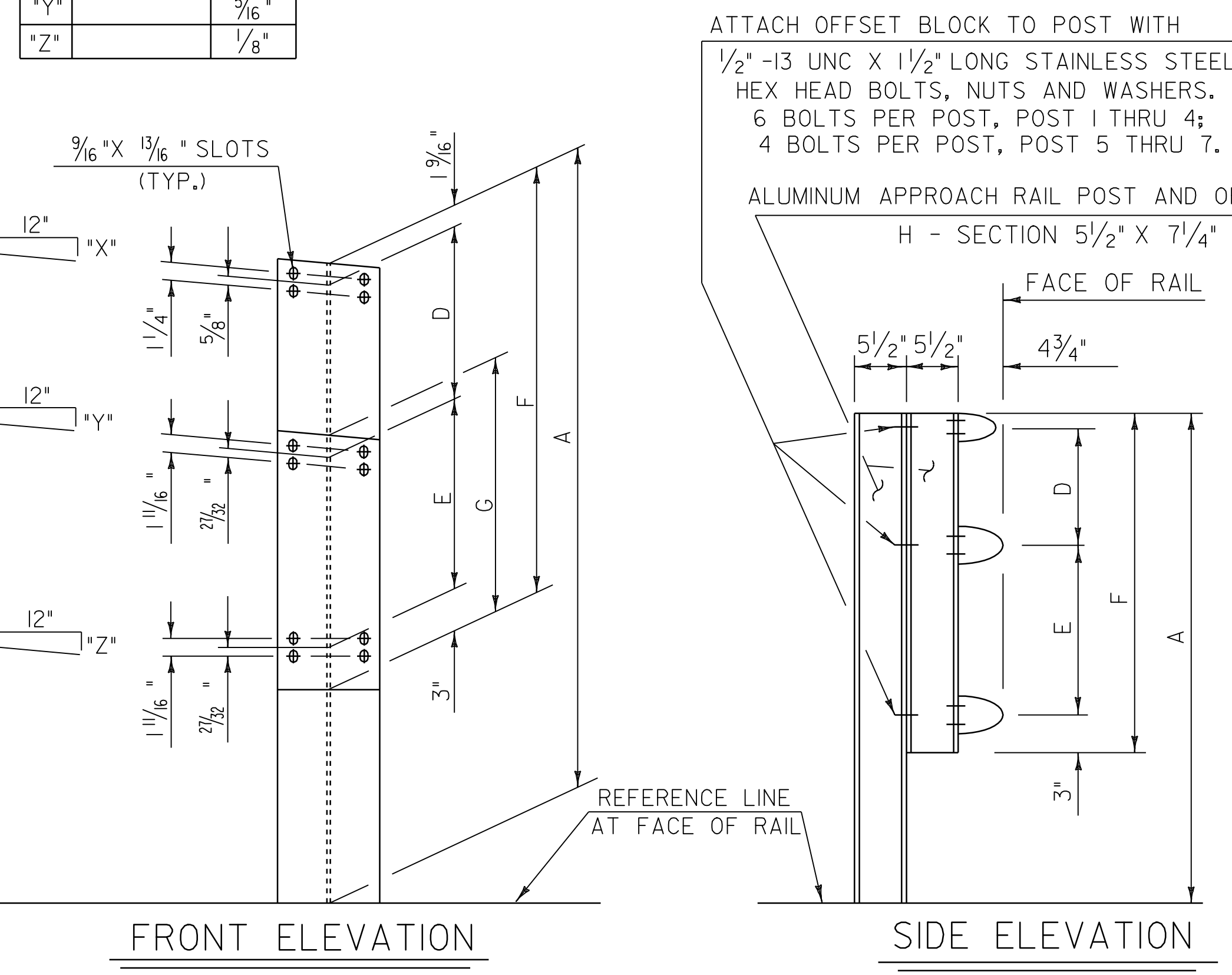
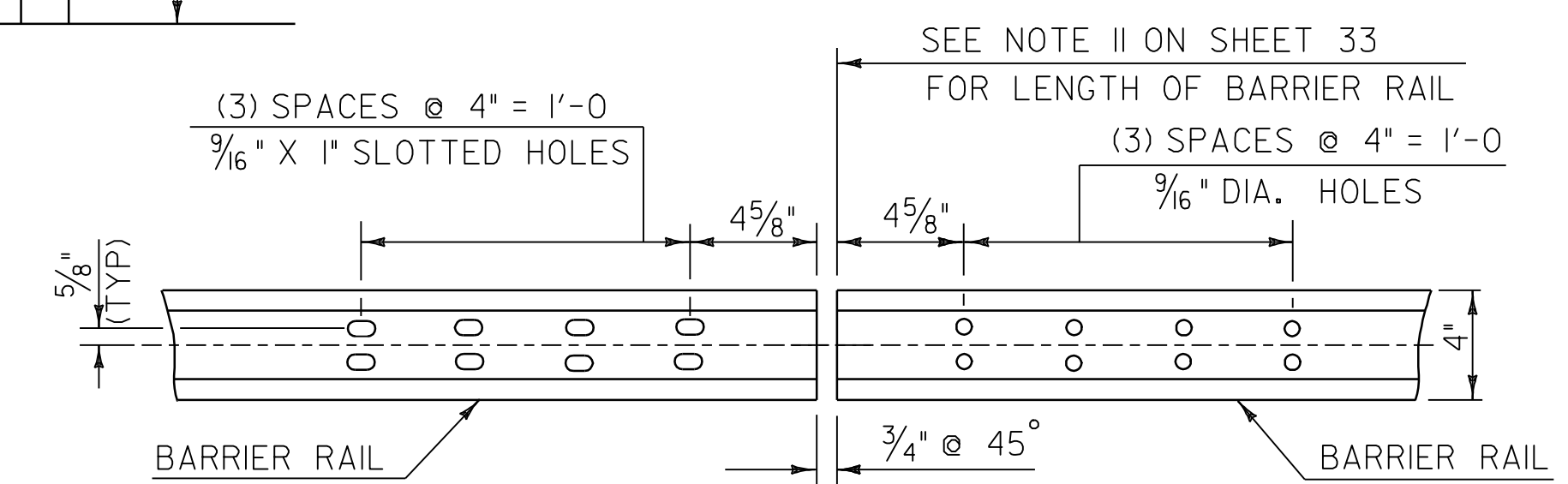
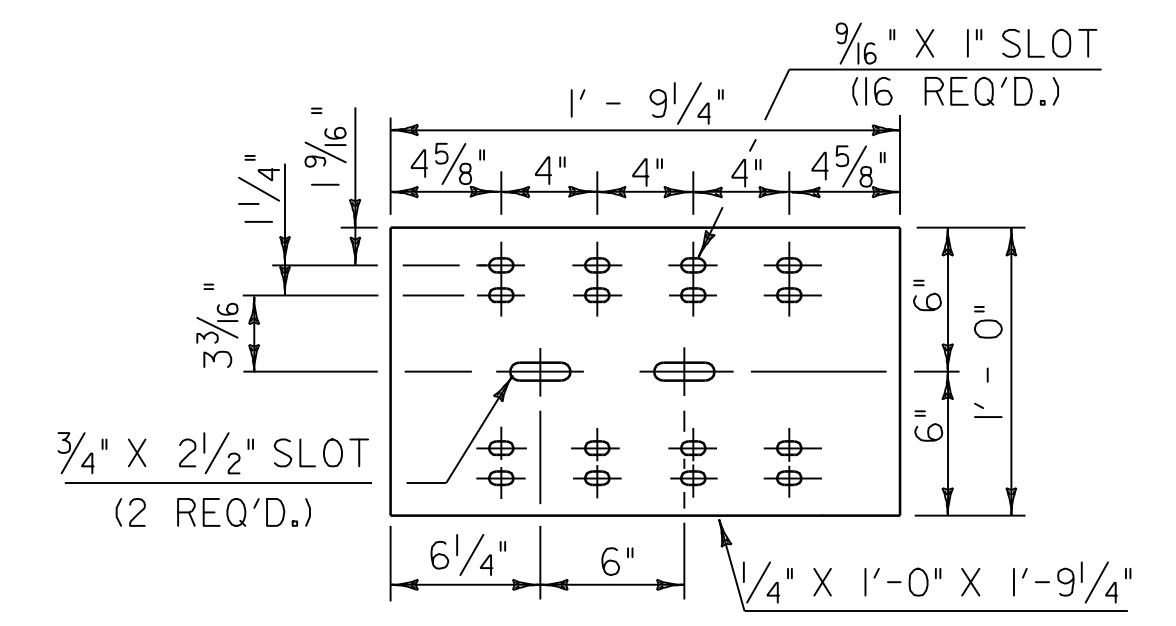
POST NO.	RAIL HEIGHT DIMENSIONS			OFFSET BLOCK DIMENSIONS			
	A	B	C	D	E	F	G
1	3'-8 1/16"	2'-10 3/8"	1'-9 3/4"	0'-9 1/16"	1'-0 9/16"	2'-2 7/8"	
2	3'-5 13/16"	2'-9 3/8"	1'-9 3/8"	0'-8 7/16"	0'-11 5/16"	2'-1"	
3	3'-3 9/16"	2'-8 3/8"	1'-9"	0'-7 1/4"	0'-11 5/16"	1'-11 1/8"	
4	3'-1 3/8"	2'-7 3/8"	1'-8 5/8"	0'-6"	0'-10 1/16"	1'-9 1/4"	
5		2'-6"	1'-8 1/8"		0'-9 7/8"		1'-2 7/16"
6		2'-4 1/16"	1'-7 5/8"		0'-9 1/16"		1'-1 5/8"
7		2'-3 3/8"	1'-7 1/8"		0'-8 3/16"		1-0 3/4"

ALL REMAINING POSTS ARE TO HAVE THE SAME DIMENSIONS AS POST NO. 7

- NOTES**
- POST 1 THROUGH 7 SHALL BE EXTRUDED ALUMINUM.
 - ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 36 GALVANIZED AFTER FABRICATION.
 - ALL ITEMS NOT OTHERWISE INDICATED SHALL MEET THE SPECIFICATION REQUIREMENTS OF THE STANDARD SHEETS ON WHICH THEY ARE DETAILED.
 - SEE STANDARD G-1 FOR STEEL BEAM GUARD RAIL DETAILS. SEE SHEETS 32 AND 33 FOR ALUMINUM BRIDGE RAILING DETAILS.
 - THE COST OF ALL MATERIALS AND LABOR FOR THE SPLICE BETWEEN THE ALUMINUM APPROACH RAILING AND THE STEEL BEAM GUARD RAIL SHALL BE INCIDENTAL TO ITEM 621.74, ALUMINUM APPROACH RAILING.
 - DETAILS ARE SHOWN FOR TRANSITION TO A 3 RAIL ALUMINUM BRIDGE RAILING.
 - DIMENSIONS SHOWN ARE FROM A REFERENCE LINE AT THE FACE OF POST FOR A NORMAL CROWNED SECTION. APPROPRIATE CORRECTIONS SHALL BE MADE FOR CROSS SLOPES OTHER THAN A NORMAL SECTION.



	SIDEWALK SIDE	CURB SIDE
"X"		1 1/16"
"Y"		5/16"
"Z"		1/8"



**BRIDGE 26N & 26S
ALUMINUM APPROACH RAILING DETAILS**

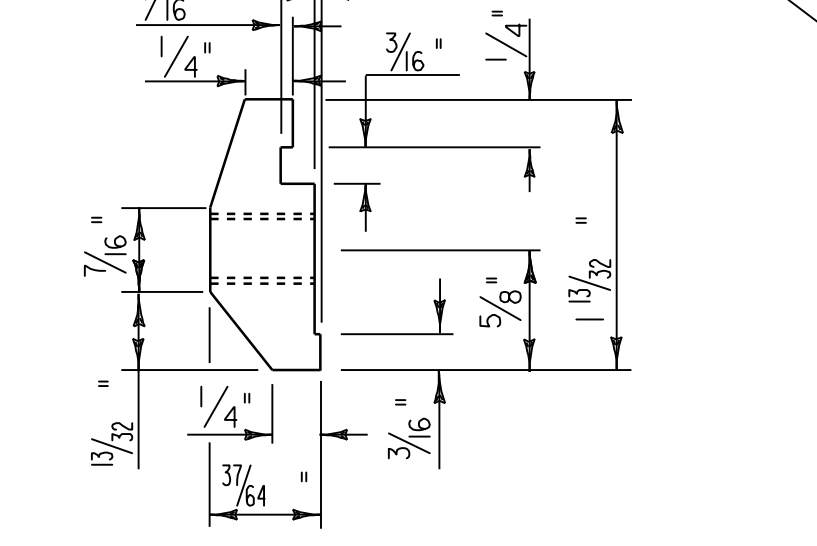
PROJECT NAME: ROYALTON-BETHEL	PLOT DATE: 28-JUN-2010 15:21
PROJECT NUMBER: IM 089-1(54)	DRAWN BY: MRS
FILE NAME: p06a198.dgn	DESIGNED BY: NLL
PROJECT LEADER: PTS	CHECKED BY: PTS
IPARM FILE NAME: p06a198aard.l	SHEET 32 OF 37

NOT TO SCALE

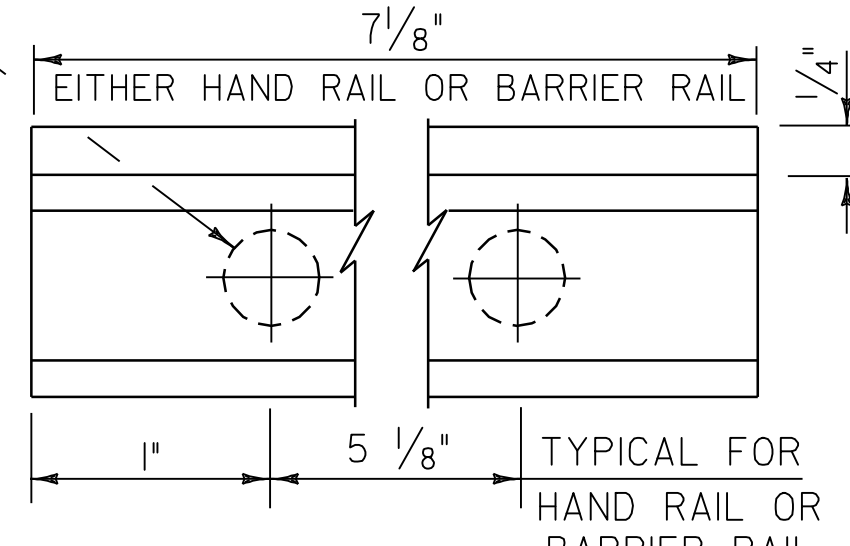
NOTES

- ANCHOR BOLTS, WASHERS AND HEAVY HEX NUTS MAY BE ANY OF THE FOLLOWING:
 - ASTM A449 GALVANIZED, OR
 - AASHTO M164 (ASTM A325) GALVANIZED
 - BOLTS AND WASHERS OF STAINLESS STEEL ASTM A276, TYPE 304 (MINIMUM ULTIMATE STRENGTH OF 100,000 PSI) WITH STAINLESS STEEL NUTS OF ASTM A194, GRADE 8NA.
- ALUMINUM POSTS, POST BASES, SPLICE BARS, CONNECTION BARS, RAILS AND BALUSTER FRAMES SHALL CONFORM TO ASTM B212 ALLOY 6061-T6 OR ALLOY 6351-T5. MINIMUM ALLOWABLE STRESS $F_y = 35,000$ PSI.
- ALUMINUM BALUSTER TUBES SHALL CONFORM TO ASTM B210 ALLOY 6061-T5 OR 6063-T5.
- ALUMINUM RAIL END CAPS SHALL CONFORM TO ASTM B26 ALLOY 356-T6.
- THE POST, RAIL, AND OFFSET BLOCK CONNECTION BOLTS SHALL BE EITHER ASTM A193 OR ASTM A320. EITHER ONE SHALL BE CLASS 1, B8 GRADE AISI 304 WITH AN ULTIMATE TENSILE STRENGTH OF 75,000 PSI. NUTS FOR EITHER OF THE ABOVE BOLTS SHALL BE ASTM A194, GRADE 8, STAINLESS STEEL WITH AN ULTIMATE TENSILE STRENGTH OF 75,000 PSI.
- SET SCREWS FOR ATTACHING BALUSTERS TO RAILING SHALL BE ASTM F880, TYPE 303 MATERIAL.
- RIVETS SHALL BE COLD DRIVEN HIGH BUTTON HEAD "CONE POINT", CONFORMING TO ASTM B316 ALLOY 6061-T6.
- THE ANCHOR PLATE FOR THE POST ANCHOR ASSEMBLY SHALL BE ASTM A36 STRUCTURAL STEEL.
- WELDING SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 506.10 USING THE GMAW-INERT GAS PROCESS AND AWS ER 5356 ELECTRODE WIRE.
- UNLESS OTHERWISE SPECIFIED, ANCHOR BOLTS SHALL BE CAST INTO THE CONCRETE AS DETAILED.
- WHENEVER FEASIBLE BARRIER RAIL AND HAND RAIL SECTIONS, SHALL BE FULL LENGTH SECTIONS (40' ±) AND WHEN POSSIBLE SHALL BE ATTACHED TO THREE POSTS. RAILS SHALL BE SPLICED AT EACH DECK JOINT AND INTERMITTENTLY AS REQUIRED. SPLICES SHALL OCCUR WITHIN THE SAME PANEL.
- ENDS OF RAILS SHALL BE CUT SQUARE AND GROUND FREE OF BURRS OR RAGGED EDGES. EXPOSED ENDS SHALL BE CAPPED.
- THE CONCRETE CONTACT SURFACE AT THE POST BASE SHALL BE BUSH HAMMERED AND/OR SHIMMED AS REQUIRED FOR PROPER POST ALIGNMENT. POST HEIGHT ADJUSTMENTS LESS THAN 1/4" SHALL BE WITH 1/16" AND 1/8" SHIMS. CORRECTIONS EXCEEDING 1/4" SHALL BE WITH EPOXY MORTAR CONFORMING WITH SECTION 524. FABRIC BEARING PADS AND ANY REQUIRED SHIMS OR EPOXY MORTAR ARE INCIDENTAL TO THE UNIT PRICE BID FOR THE RAILING.
- SHIMS AND 1/8" FABRIC BEARING PADS SHALL BE 10 3/4" SQUARE WITH SLOTTED HOLES SIZED AND LOCATED THE SAME AS THE POST BASE DETAIL. FABRIC BEARING PADS SHALL CONFORM TO SUBSECTION 731.01 OR 731.02, SHIM MATERIAL SHALL BE ASTM B 209 ALLOY 1100-0.
- EXTRUDED SECTIONS ARE DETAILED TO COMPLY WITH CURRENT AASHTO-AGC-ARTBA STANDARDS. MINOR VARIATIONS OF THE DETAILS SHOWN MAY BE CONSIDERED PROVIDING THEY DO NOT REDUCE THE STRENGTH CAPACITY OF THE RAIL SYSTEM.

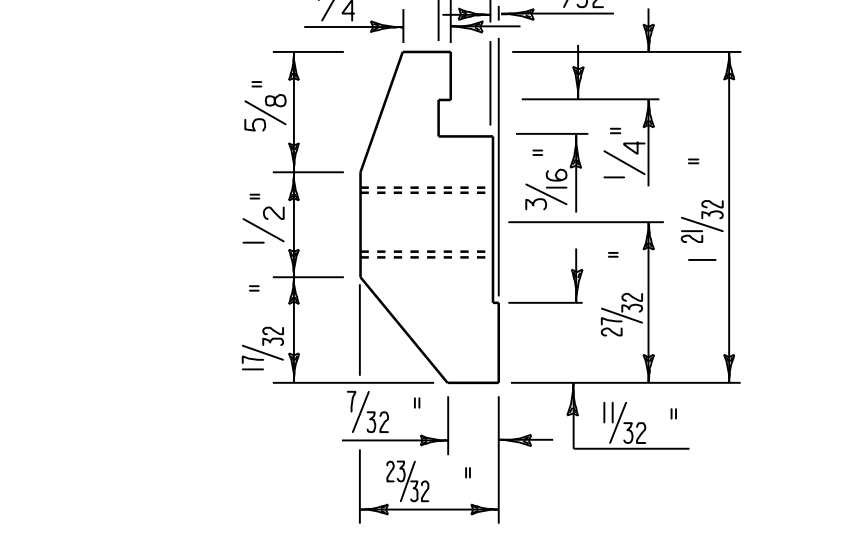
(2) 1/2" - 13 UNC THREADED HOLES FOR (2) 1/2" - 13 UNC X 1" STAINLESS STEEL HEX HEAD BOLTS WITH 1/16" O. D. X 17/32" I. D. X 3/32" THICK ALUMINUM WASHERS.



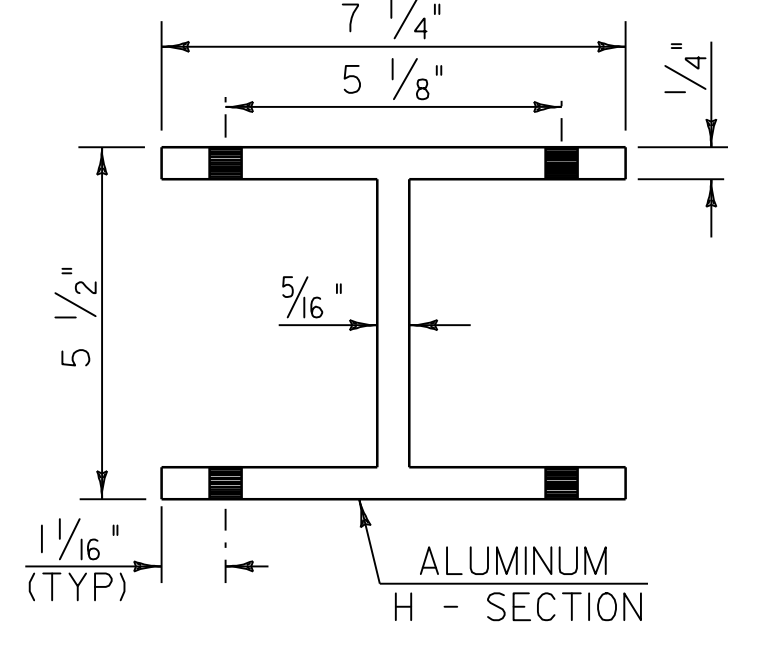
POST CONNECTION HAND RAIL SECTION



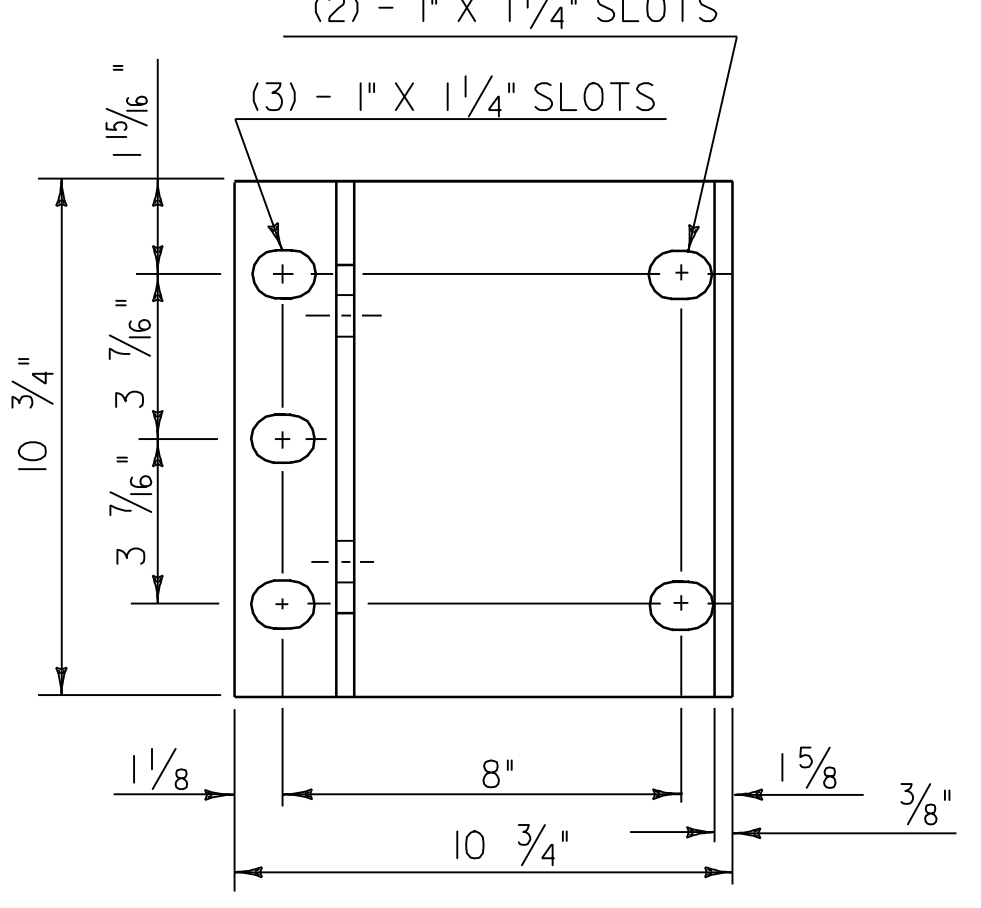
POST CONNECTION ELEVATION



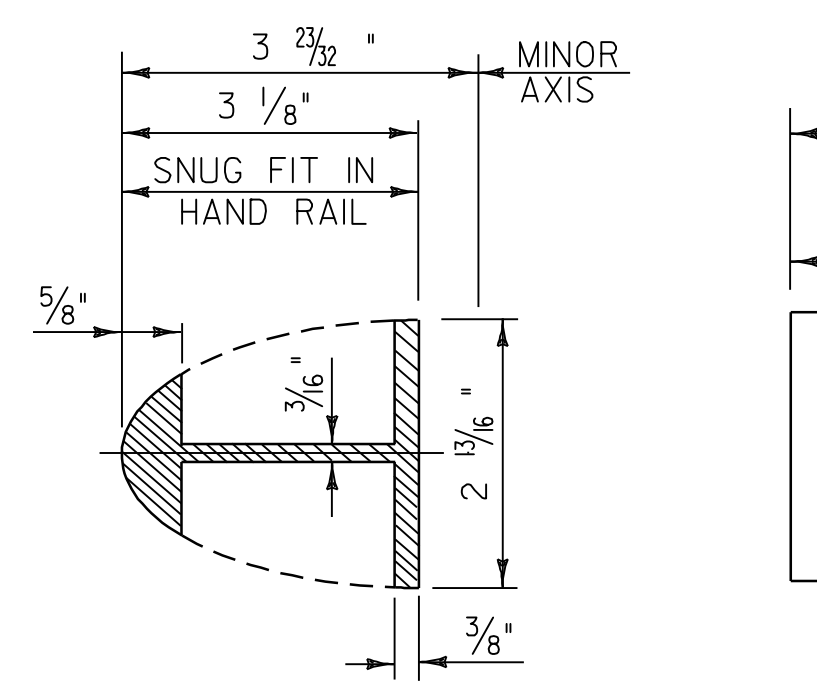
POST CONNECTION BARRIER RAIL SECTION



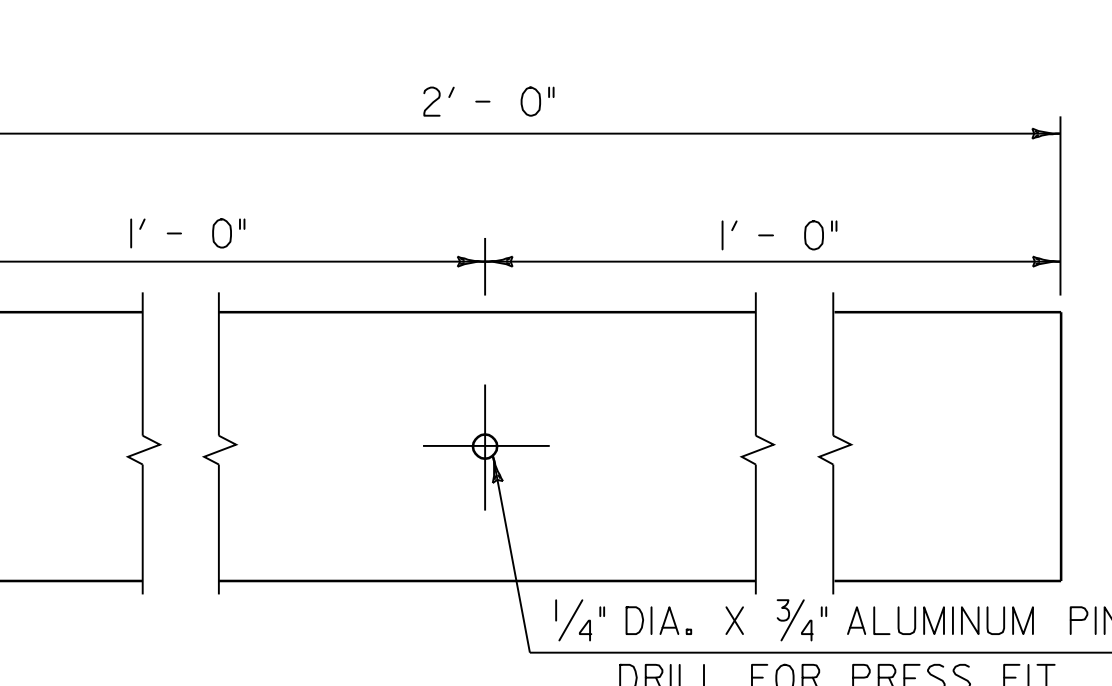
PLAN VIEW OF OFFSET BLOCK (TO BE USED ON SUPERSTRUCTURE ON CURB SIDE)



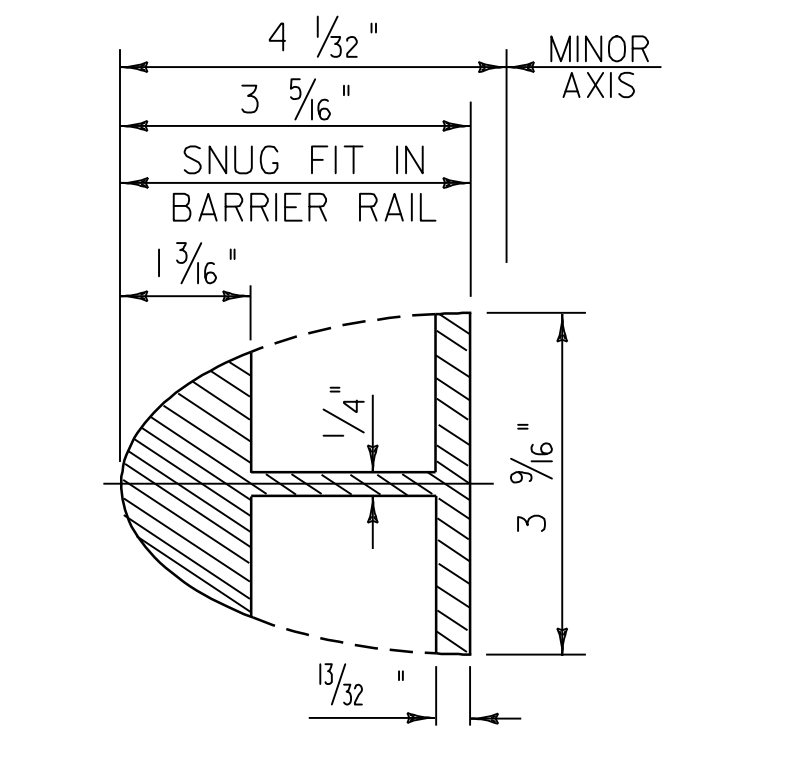
POST BASE PLAN



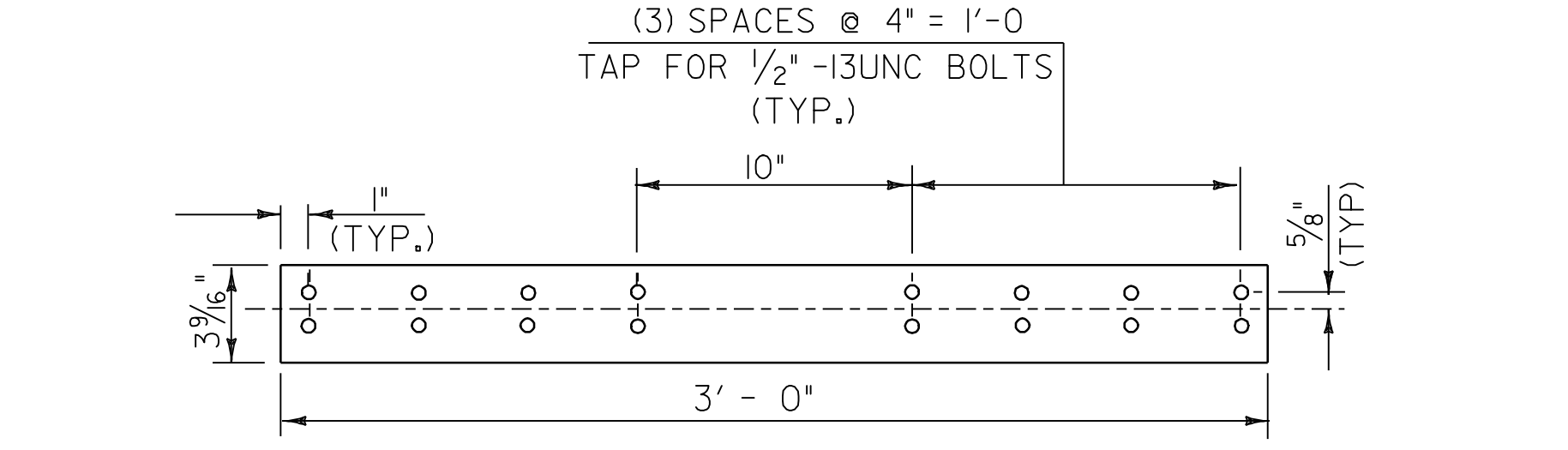
HAND RAIL SPLICE SECTION



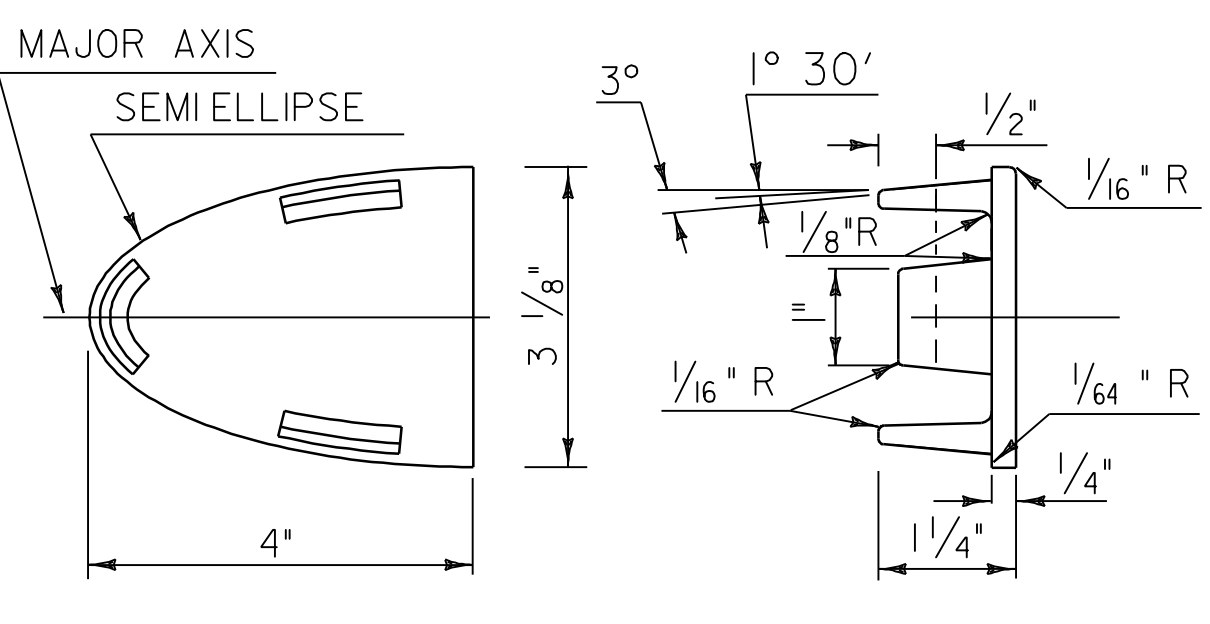
ELEVATION OF HAND RAIL SPLICE BAR



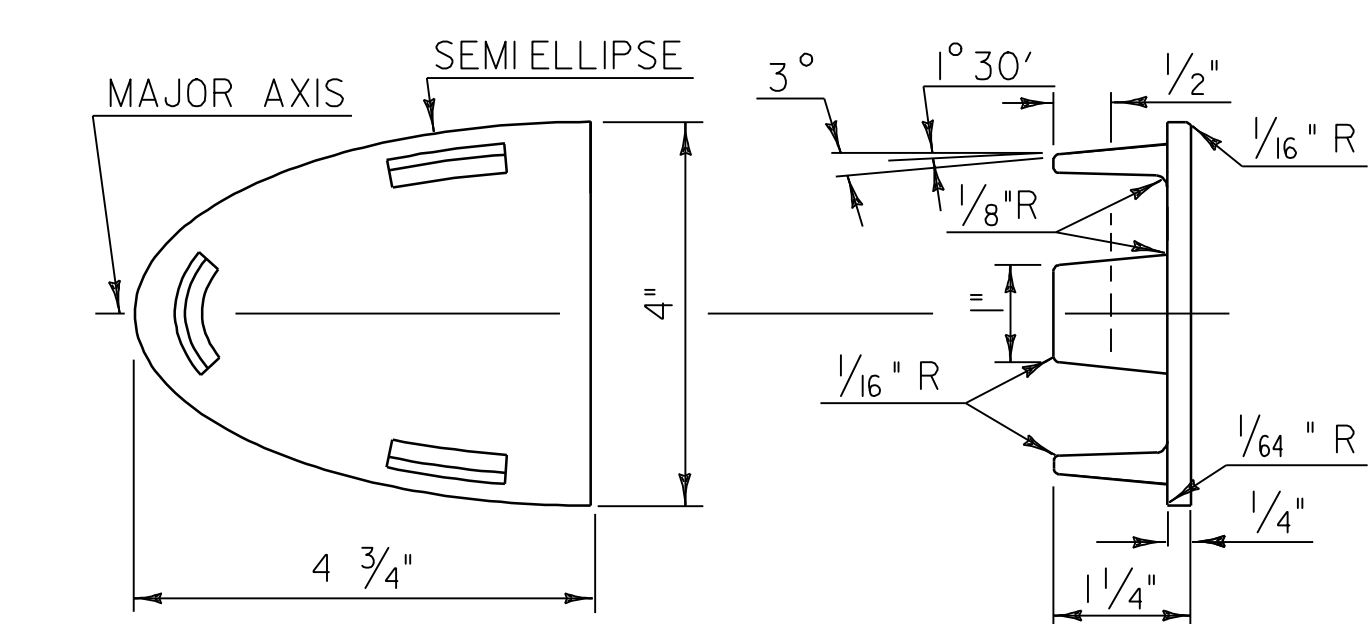
BARRIER RAIL SPLICE SECTION



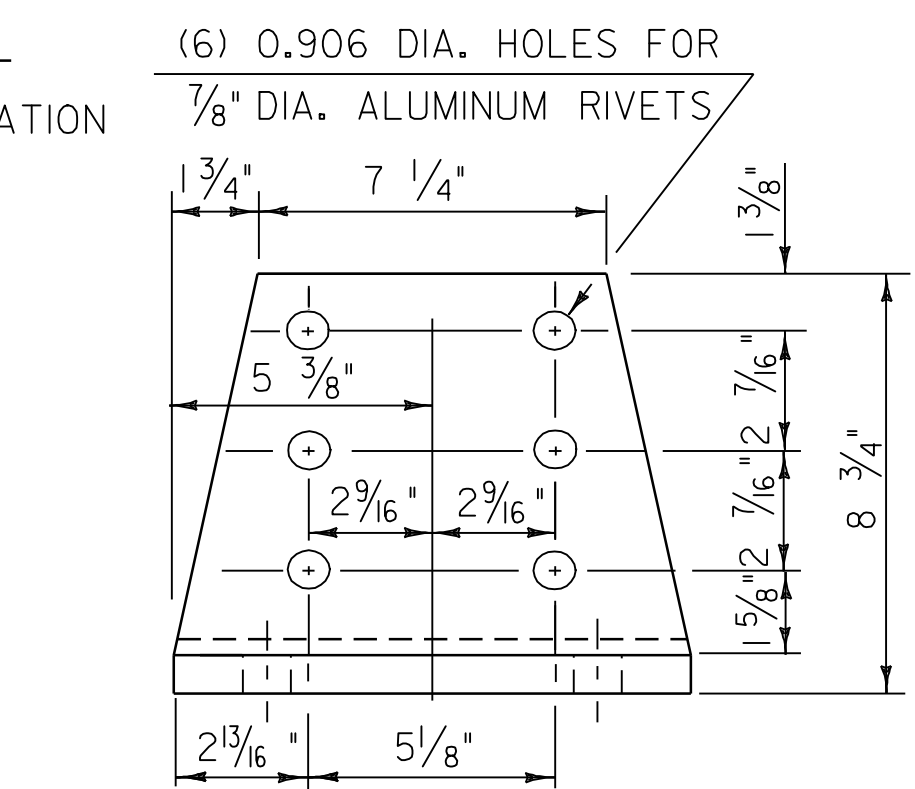
ELEVATION OF STD. BARRIER RAIL SPLICE BAR (FROM BACK)



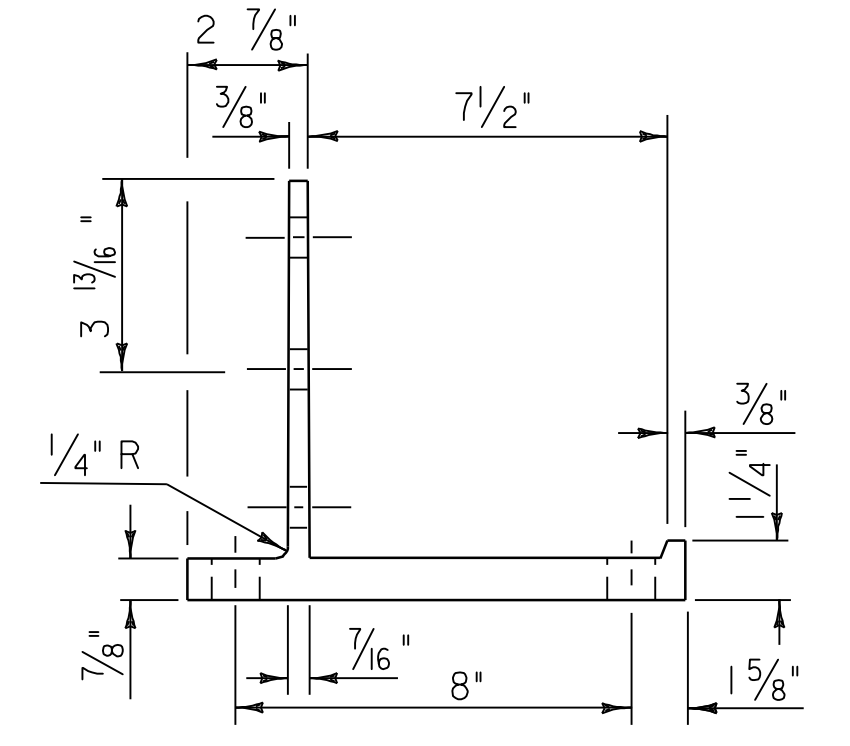
HAND RAIL END CAP



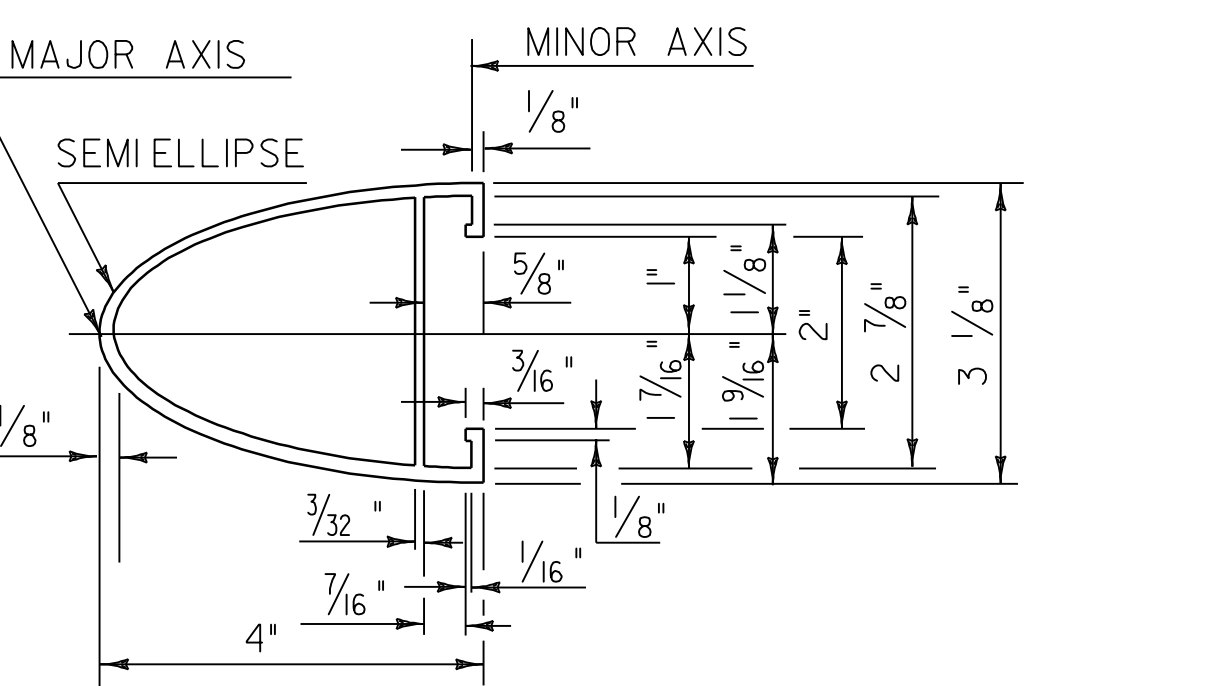
BARRIER RAIL END CAP



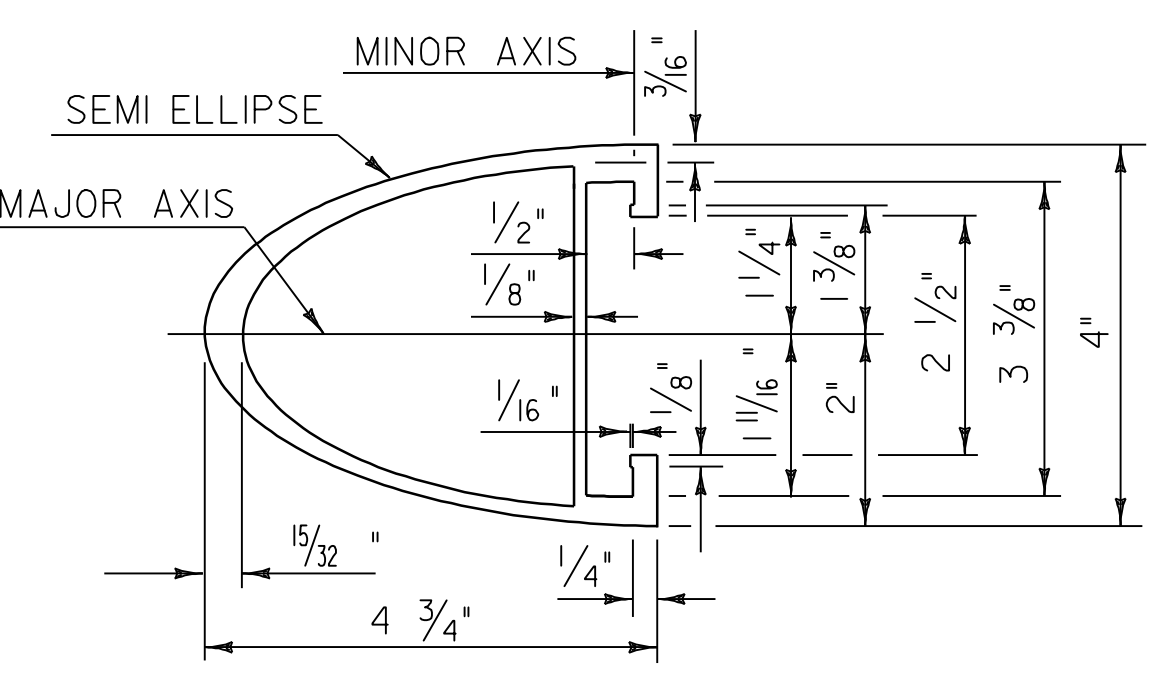
POST BASE FRONT ELEVATION



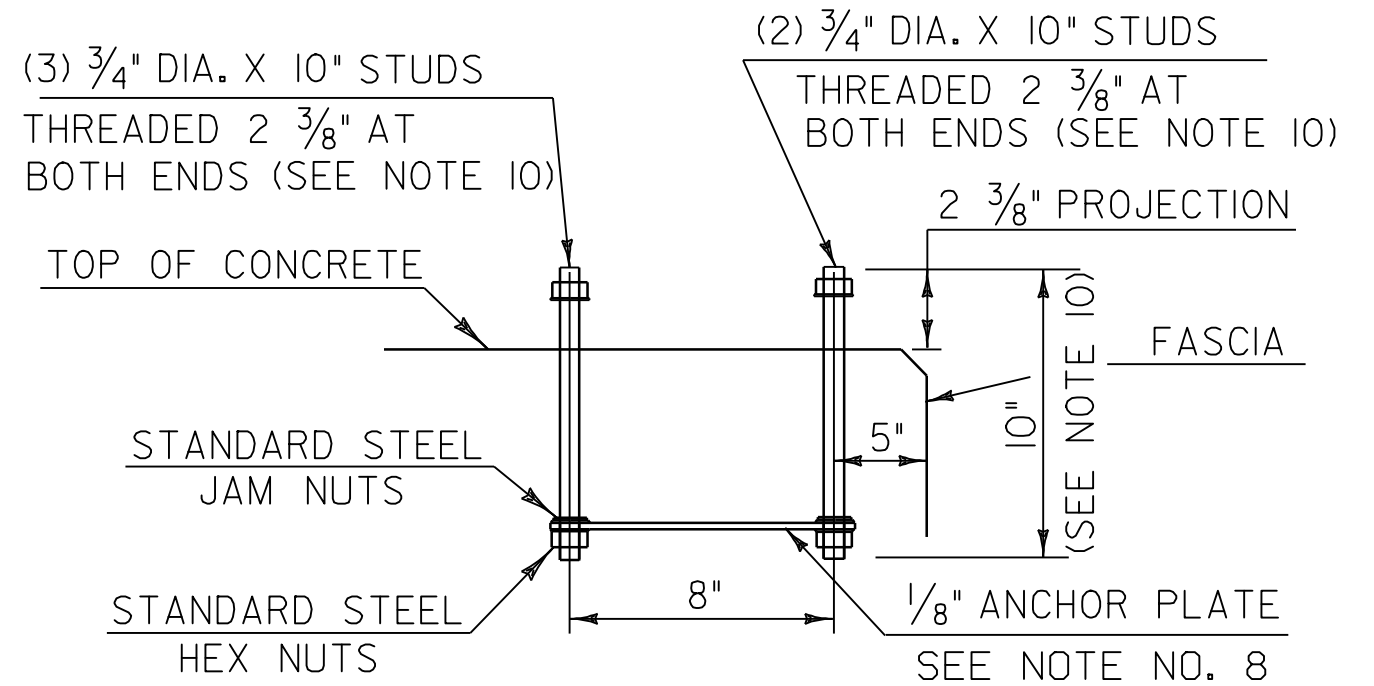
POST BASE SECTION



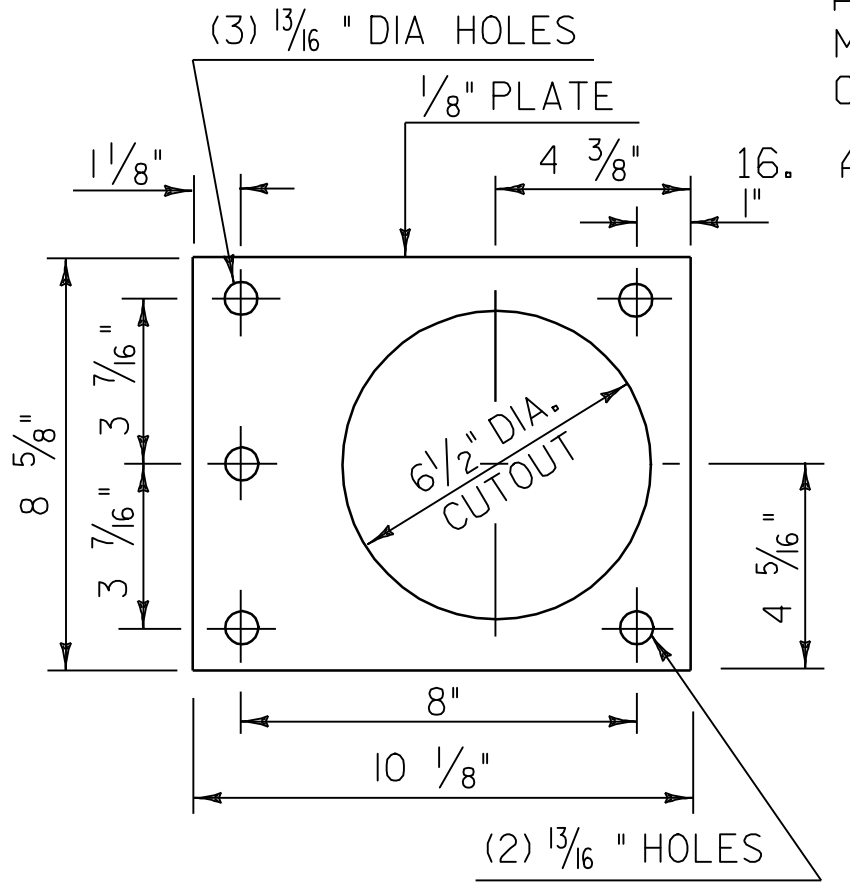
HAND RAIL SECTION



BARRIER RAIL SECTION



POST ANCHOR ASSEMBLY

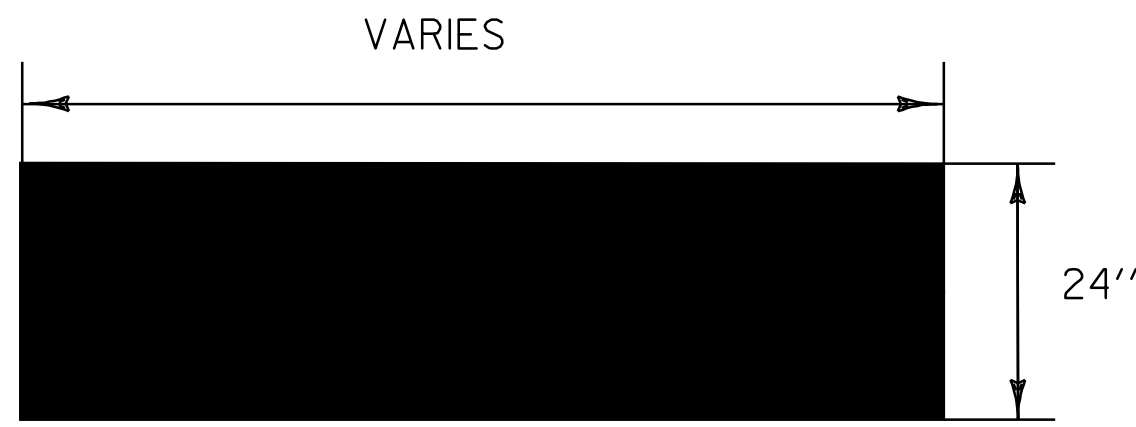
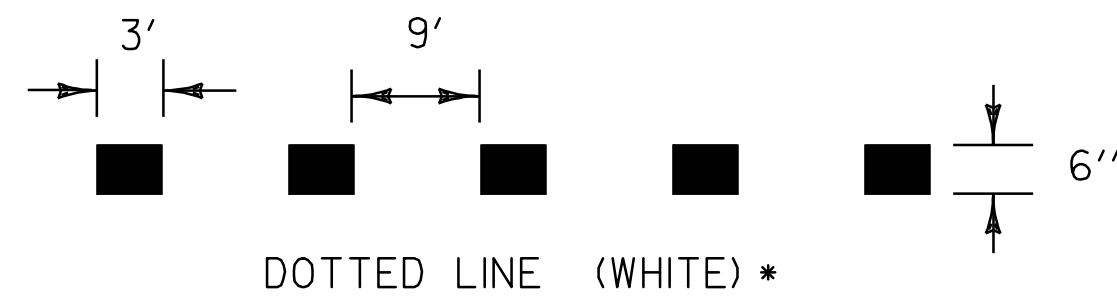


ANCHOR PLATE

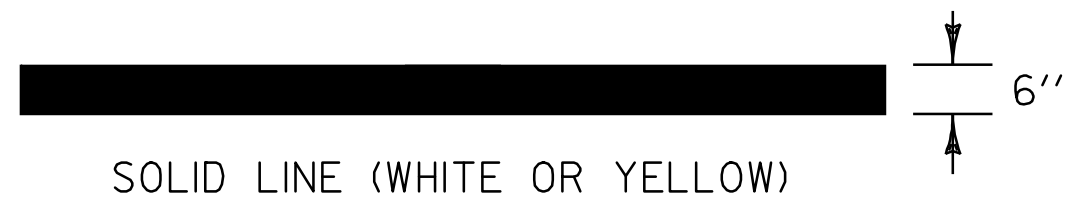
NOT TO SCALE
BRIDGE 26 N & S
ALUMINUM APPROACH RAILING DETAILS

PROJECT NAME: ROYALTON-BETHEL	PLOT DATE: 28-JUN-2010 15:12
PROJECT NUMBER: IM 089-1(54)	DRAWN BY: MRS
FILE NAME: p06a198.dgn	CHECKED BY: PTS
PROJECT LEADER: PTS	SHEET 33 OF 37
DESIGNED BY: NLL	
IPARM FILE NAME: pal98aar.d3.1	

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



STOP BAR DETAIL

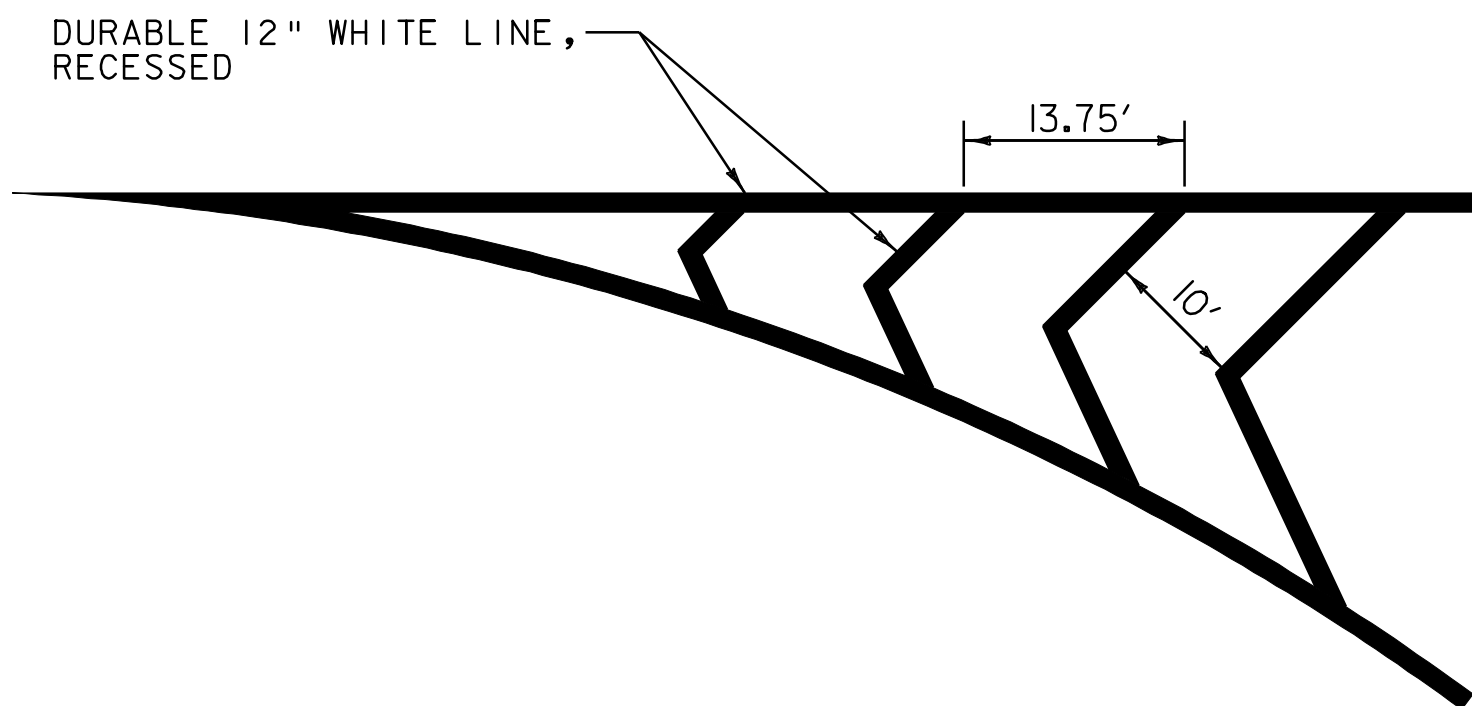


SOLID LINE (WHITE OR YELLOW)

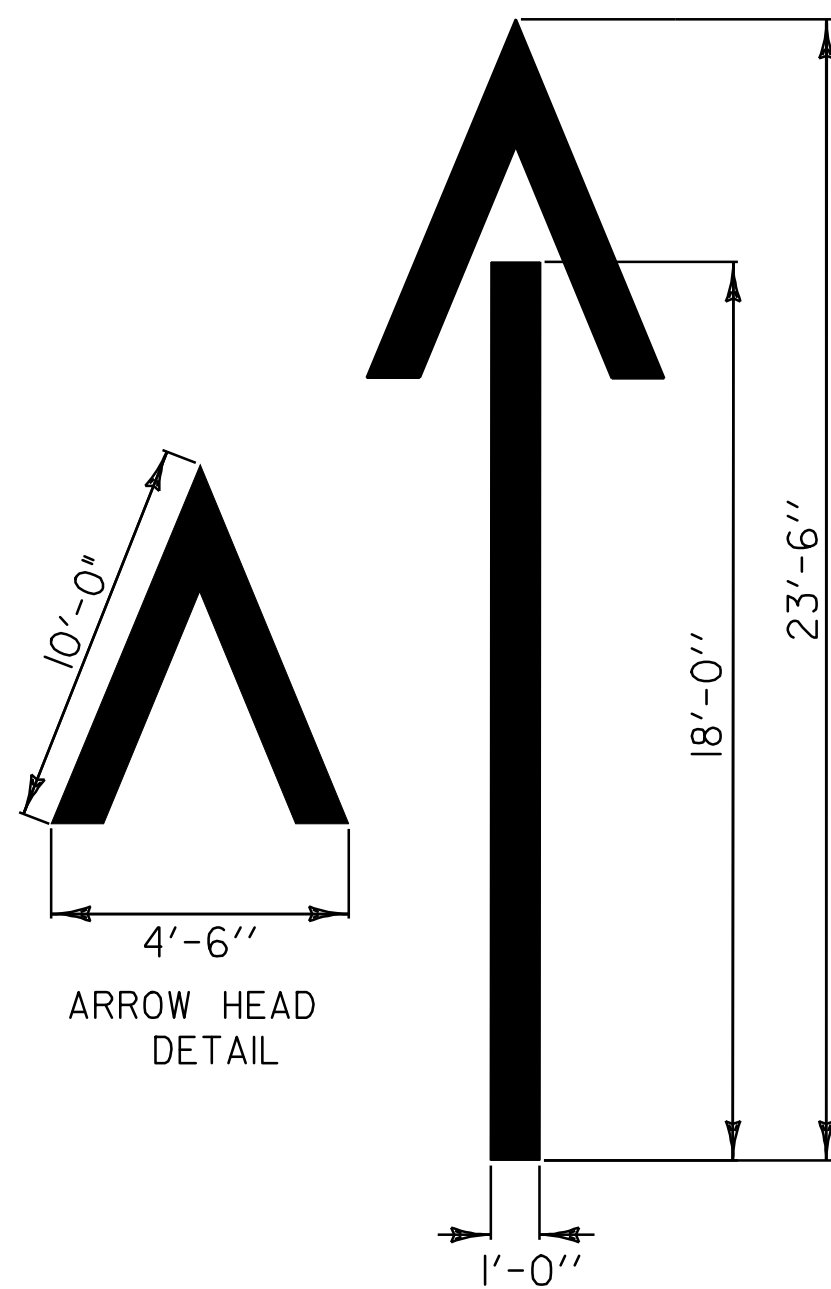


CHANNELIZING LINE (WHITE)

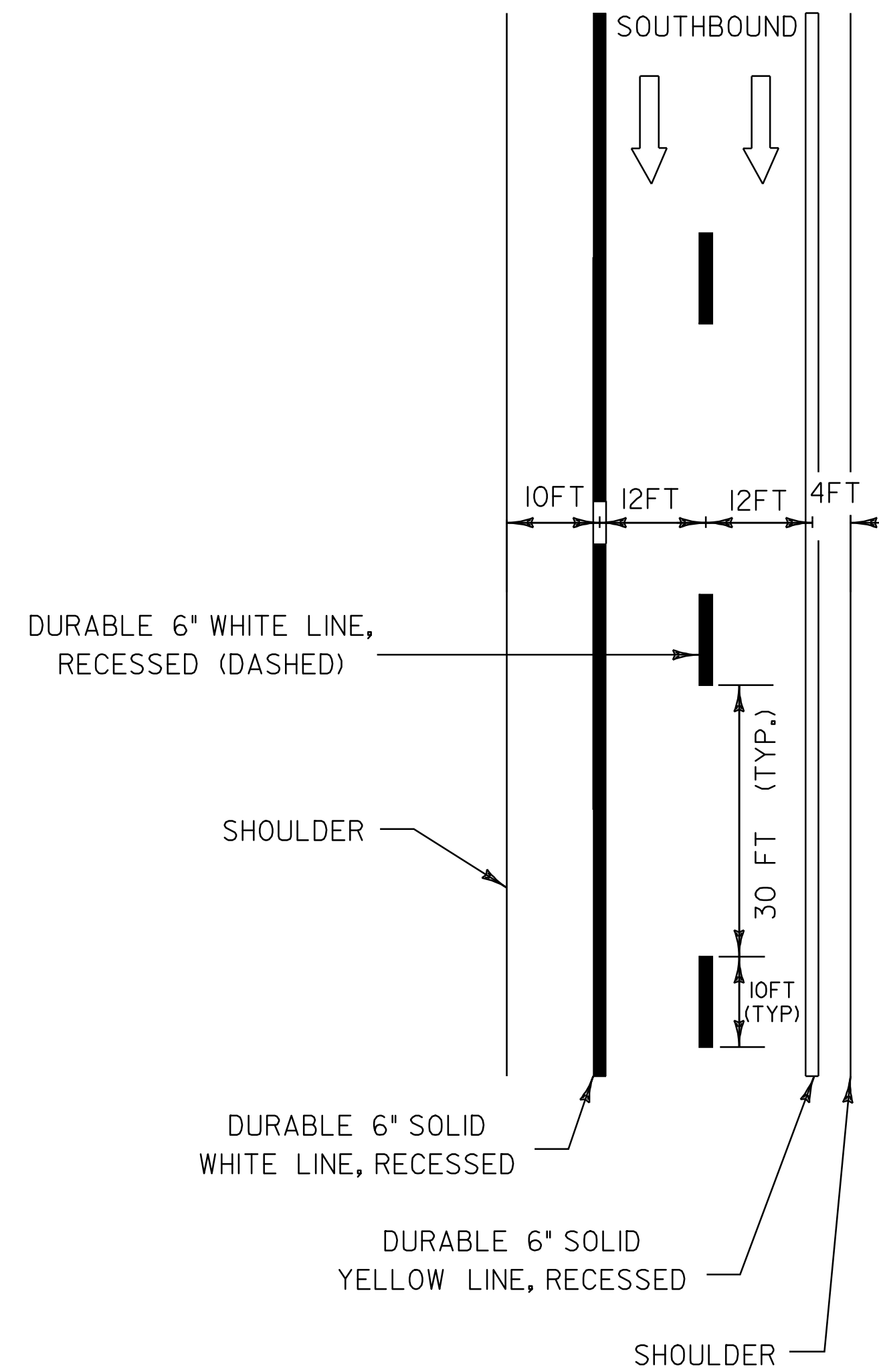
PAVEMENT MARKING LINE DETAILS



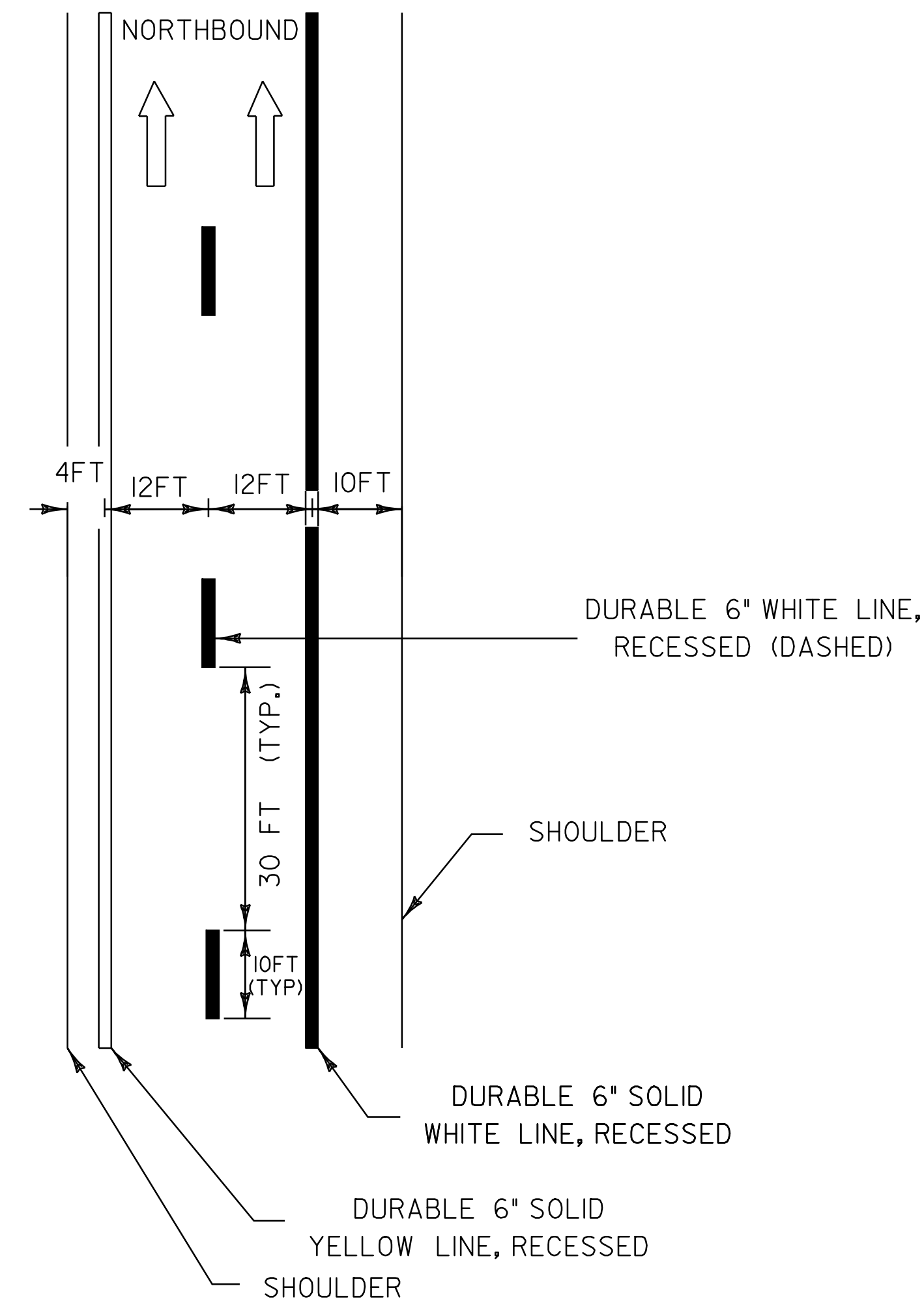
GORE MARKING DETAIL



WRONG-WAY ARROW DETAILS



TYPICAL MAINLINE MARKING PLAN



LEGEND

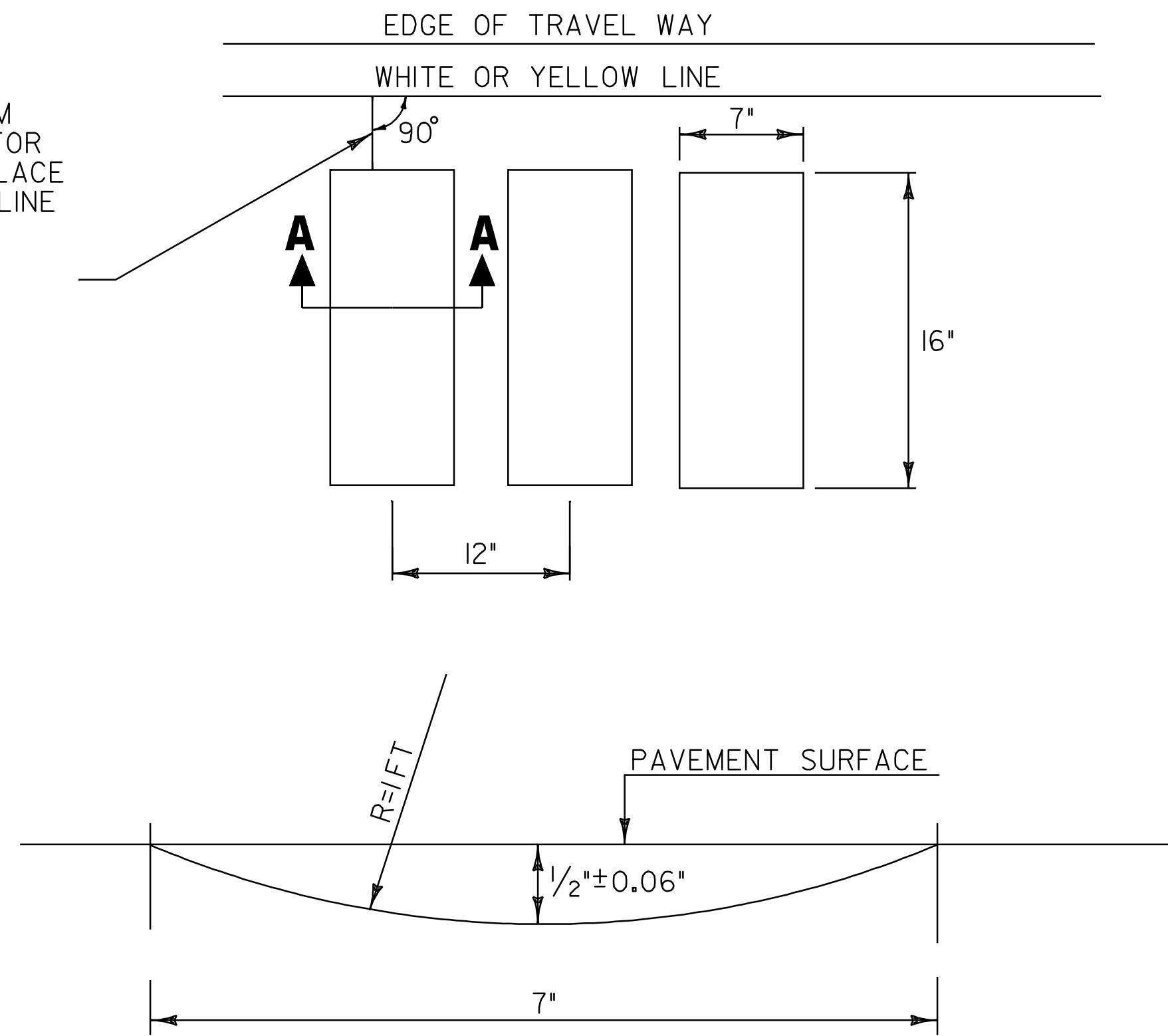
- 6" WHITE LINES
- 6" YELLOW LINES
- DIRECTION OF TRAFFIC FLOW

TYPICAL PAVEMENT MARKINGS

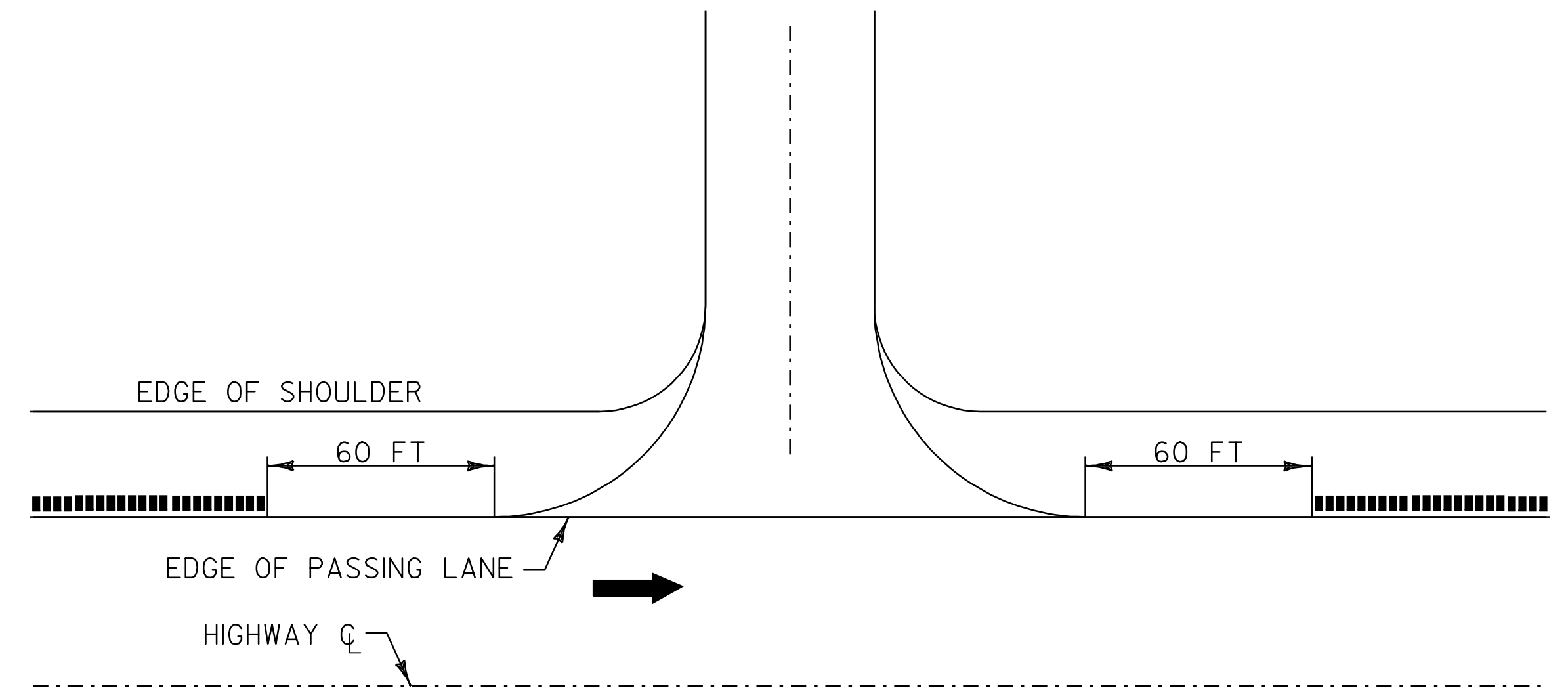
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PROJECT LEADER: PTS	SHEET 34 OF 37
DESIGNED BY: NULL	
IPARM FILE NAME: p06a198+pm.l	

NOT TO SCALE

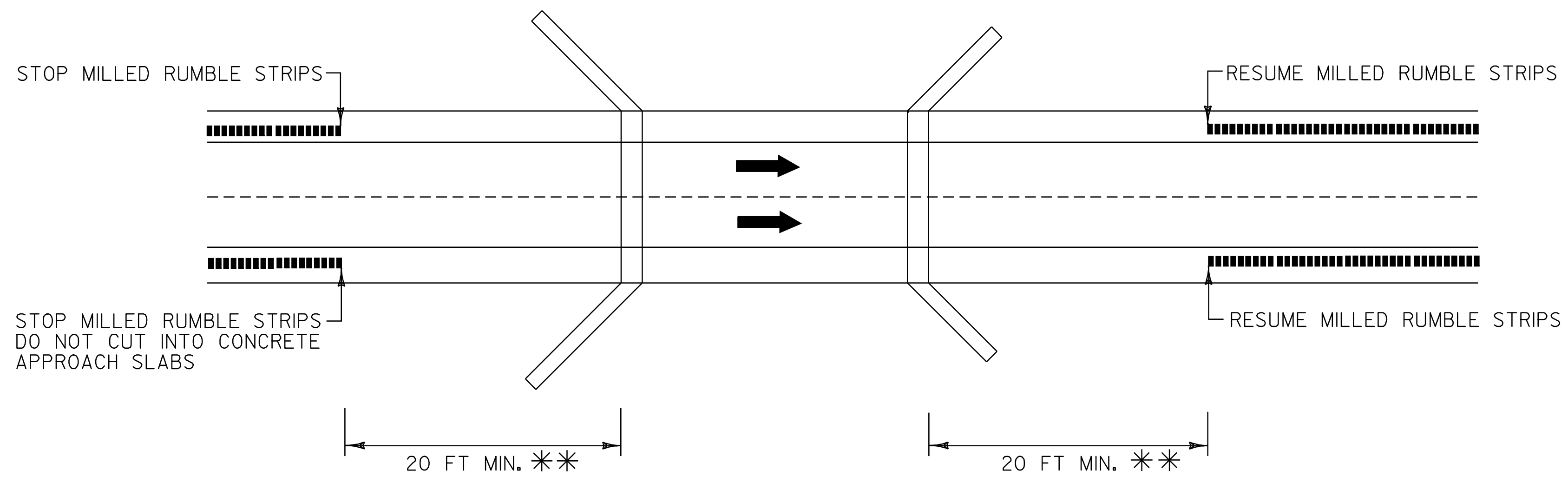
PLACE RUMBLE STRIPS 30" FROM EDGE LINE (WHITE OR YELLOW) FOR ALL SHOULDERS 6' OR WIDER, PLACE RUMBLE STRIPS 6" FROM EDGE LINE (WHITE OR YELLOW) FOR ALL SHOULDERS LESS THAN 6' WIDE WITH NO GUARDRAIL



SECTION A-A
TYPICAL MILLING DETAIL



U-TURN DETAIL



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

BRIDGE DETAIL

LEGEND

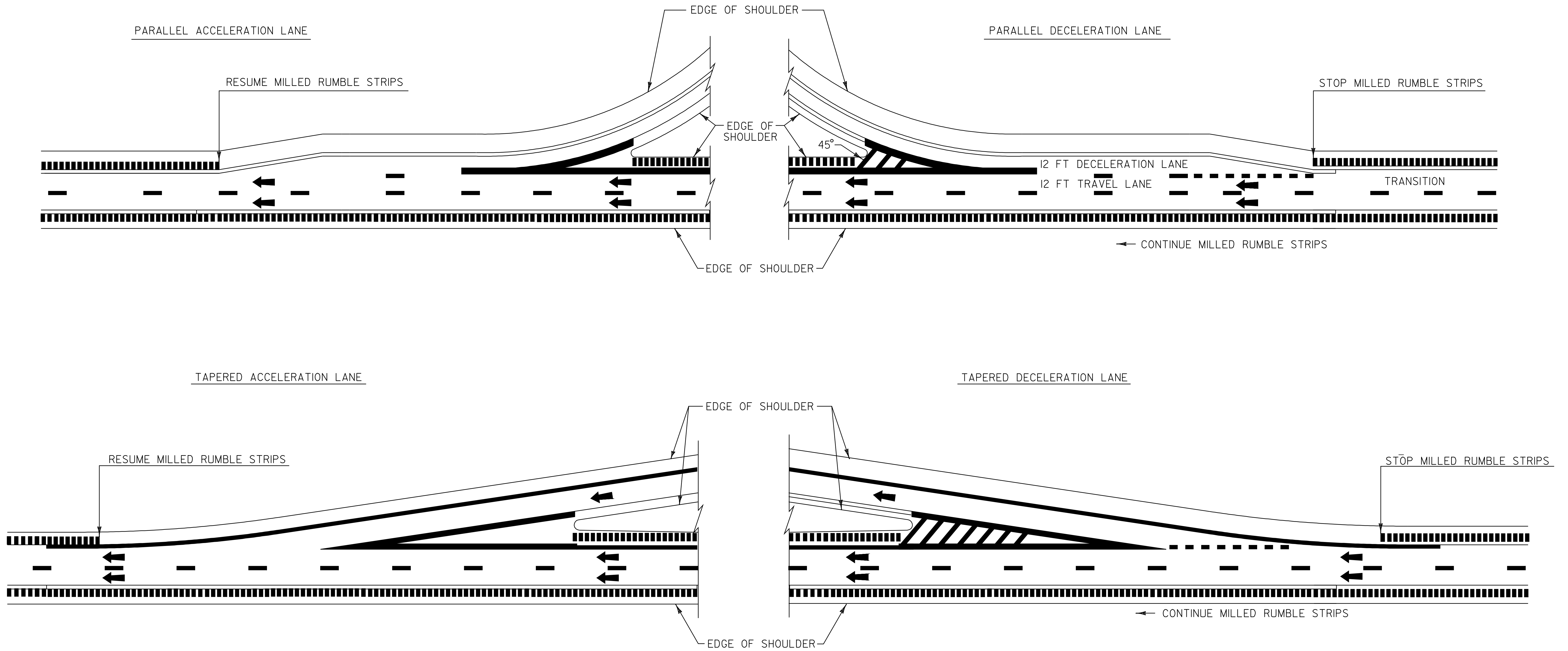
- DIRECTION OF TRAFFIC FLOW
- MILLED RUMBLE STRIPS

NOT TO SCALE

MILLED RUMBLE STRIP DETAILS SHEET 1

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PROJECT LEADER: PTS	SHEET 35 OF 37
DESIGNED BY: NULL	
IPARM FILE NAME: p06a198mrsdl.t	

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.

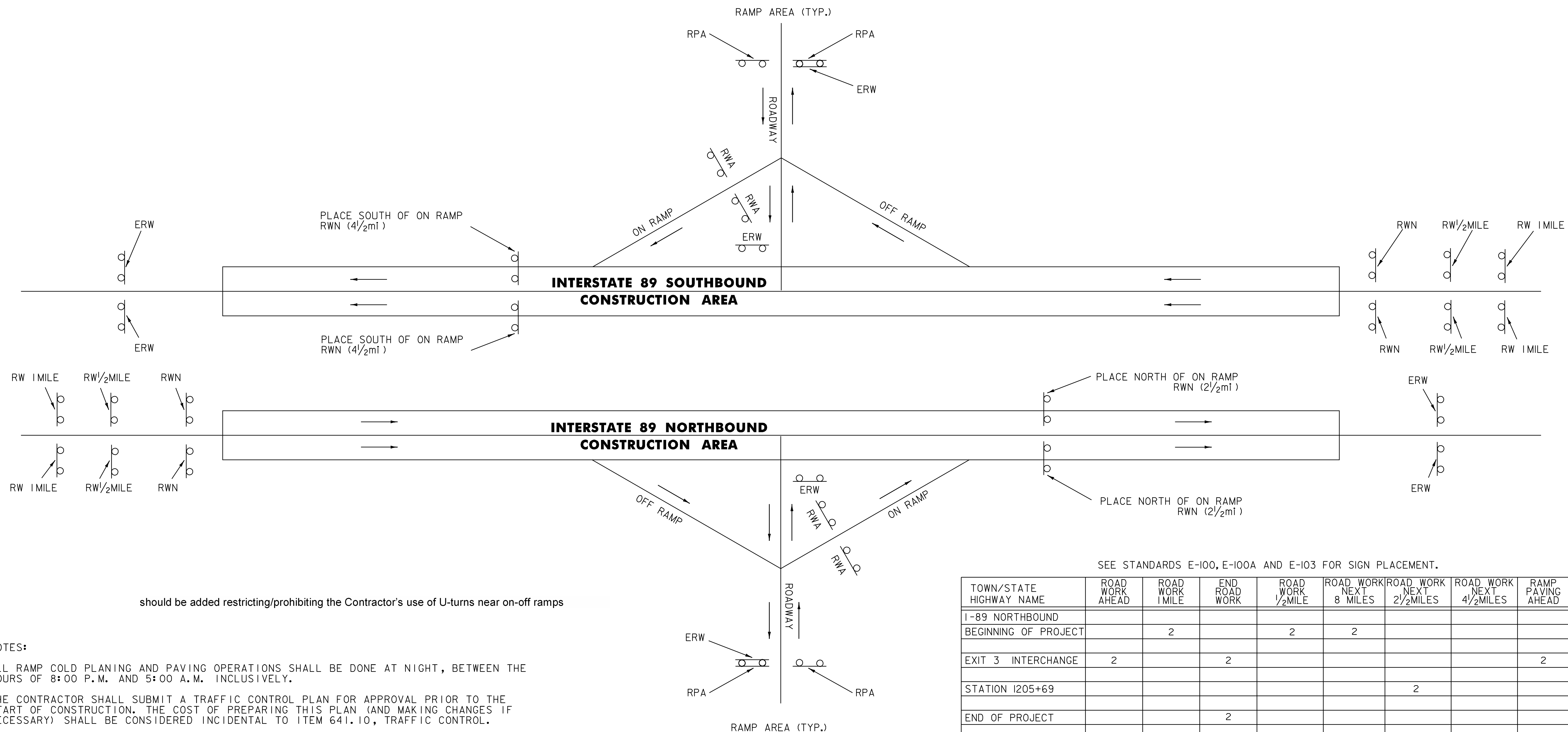
NOT TO SCALE

LEGEND

-  DIRECTION OF TRAFFIC FLOW
-  MILLED RUMBLE STRIPS

MILLED RUMBLE STRIP DETAILS SHEET 2

PROJECT NAME: ROYALTON-BETHEL	PLOT DATE: 28-JUN-2010 15:12
PROJECT NUMBER: IM 089-1(54)	DRAWN BY: MRS
FILE NAME: p06a198.dgn	CHECKED BY: PTS
PROJECT LEADER: PTS	SHEET 36 OF 37
DESIGNED BY: NLL	
IPARM FILE NAME: p06a198mrsd2.1	



SEE STANDARDS E-100, E-100A AND E-103 FOR SIGN PLACEMENT.

TOWN/STATE HIGHWAY NAME	ROAD WORK AHEAD	ROAD WORK 1 MILE	END ROAD WORK	ROAD WORK 1/2 MILE	ROAD WORK NEXT 8 MILES	ROAD WORK NEXT 2 1/2 MILES	ROAD WORK NEXT 4 1/2 MILES	RAMP PAVING AHEAD
I-89 NORTHBOUND								
BEGINNING OF PROJECT		2		2	2			
EXIT 3 INTERCHANGE	2		2					2
STATION 1205+69						2		
END OF PROJECT			2					
I-89 SOUTHBOUND								
BEGINNING OF PROJECT		2		2	2			
EXIT 3 INTERCHANGE	2		2					2
STATION 115+440							2	
END OF PROJECT			2					
TOTAL	4	4	8	4	4	2	2	4

NOTES:

1. ALL RAMP COLD PLANING AND PAVING OPERATIONS SHALL BE DONE AT NIGHT, BETWEEN THE HOURS OF 8:00 P.M. AND 5:00 A.M. INCLUSIVELY.
2. 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 BE CONSIDERED INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL.
3. DURING CONSTRUCTION IT WILL BE NECESSARY FOR THE CONTRACTOR TO MAINTAIN ONE-LANE TRAFFIC FOR EXTENDED PERIODS OF TIME. IN NO CASE SHALL THE PAVED WIDTH FOR THIS ONE-LANE TRAFFIC, INCLUDING SHOULDERS, BE REDUCED TO LESS THAN 15 FEET. THIS PAVED WIDTH SHALL REMAIN FREE OF OBSTRUCTIONS AND OBSTACLES AT ALL TIMES.
4. FOUR (4) PORTABLE CHANGEABLE MESSAGE SIGNS WILL BE PROVIDED FOR USE ALONG THIS PROJECT. THE CONTRACTOR SHALL POSITION A PORTABLE CHANGEABLE MESSAGE SIGN ON I-89 PRIOR TO THE PROJECT NORTHBOUND AND SOUTHBOUND, AND ON VT ROUTE 107 EASTBOUND AND WESTBOUND PRIOR TO THE I-89 INTERCHANGE WARNING MOTORISTS OF THE COLD PLANED SURFACE AND REDUCED ROADWAY WIDTHS AHEAD. THE MESSAGE TO BE DISPLAYED SHALL BE SUBMITTED TO THE RESIDENT ENGINEER IN ADVANCE FOR APPROVAL. THE CONTRACTOR SHALL ALSO INSTALL AND MAINTAIN THE APPROPRIATE CONSTRUCTION SIGNING WHICH WARNS THE TRAVELING PUBLIC OF THE ROUGH ROADWAY SURFACE. THE COST OF PROVIDING THESE MESSAGE SIGNS SHALL BE PAID UNDER CONTRACT ITEM 641.15, PORTABLE CHANGEABLE MESSAGE SIGN.
5. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH STANDARD E-103. PAYMENT FOR PROVIDING THIS PACKAGE SHALL BE INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL.
6. PAYMENT FOR TEMPORARY CONSTRUCTION SIGNING WILL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 641.10.
7. THE CONTRACTOR SHALL BE RESTRICTED FROM USING U-TURNS UNLESS THEY GET A U-TURN PERMIT FROM THE VAOT CONSTRUCTION DIVISION.

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

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 DESIGNED BY: NULL CHECKED BY: PTS
 IPARM FILE NAME: p06a198+top.1 SHEET 37 OF 37

NOT TO SCALE