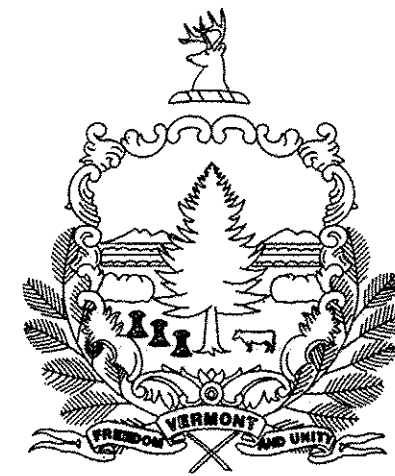


**INDEX OF SHEETS**

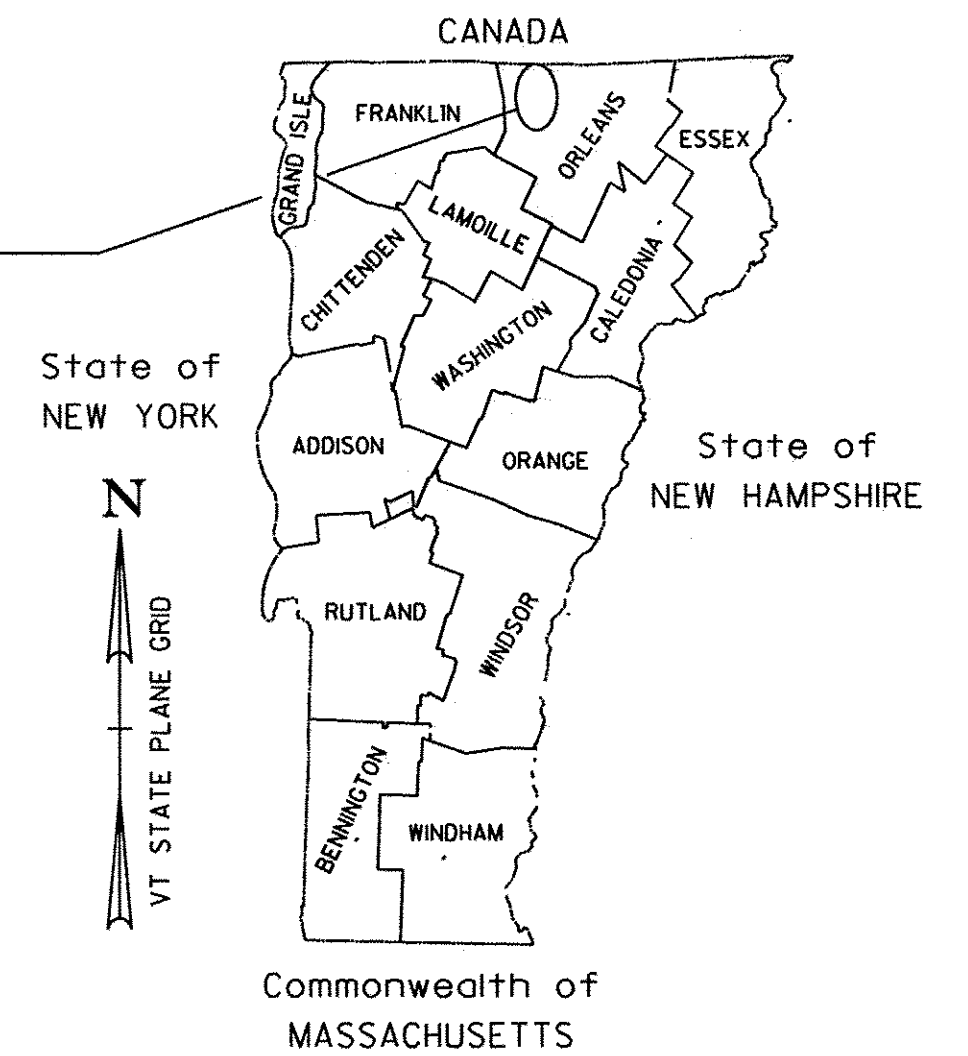
SEE SHEET 2 OF 116

STATE OF VERMONT  
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT  
TOWNS OF NORTH TROY AND TROY  
COUNTY OF ORLEANS

**PROJECT LOCATION**  
STP-HES 2718(1)  
STP 2717(1)  
STP 2620(1)  
STP 2621(1)



**RECORD PLANS**

CONTRACTOR: PIKE INDUSTRIES, INC. - BERLIN, VT

RESIDENT ENGINEER: KEVIN MCCLURE

CONSTRUCTION BEGAN: JUNE 25, 2009

CONSTRUCTION COMPLETE: JULY 8, 2010

RECORD PLANS BY: KEVIN MCCLURE & C. PIERCE

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

BY Kevin McClure RESIDENT ENGINEER

DATE 9-1-11

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

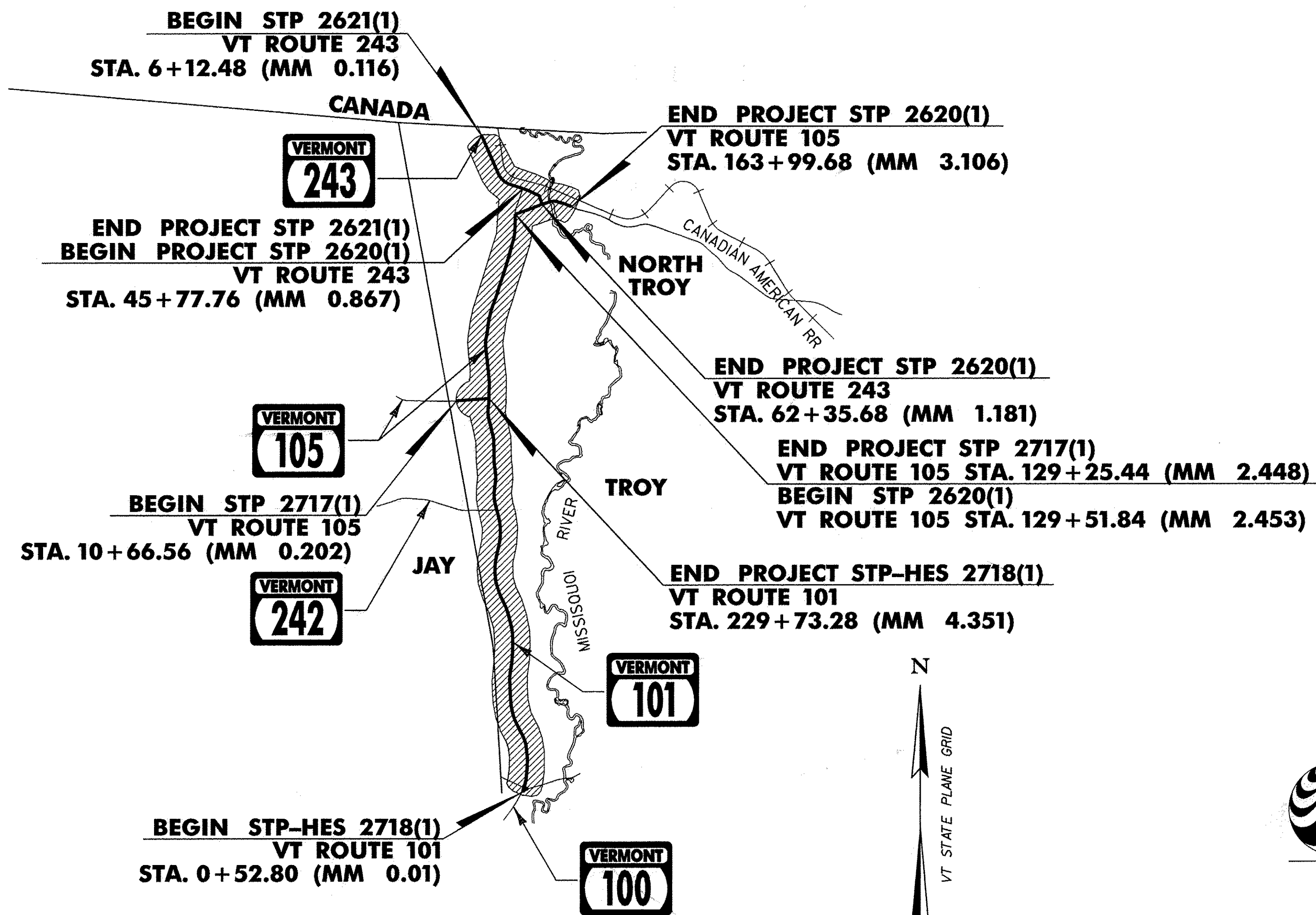
**TROY**  
STP-HES 2718(1)  
VT ROUTE 101

**TROY**  
STP 2717(1)  
VT ROUTE 105

**NORTH TROY**  
STP 2620(1)  
VT ROUTE 105  
VT ROUTE 243

**TROY**  
STP 2621(1)  
VT ROUTE 243

SEE SHEET 8 OF 116 SEE SHEET 47 OF 116 SEE SHEET 76 OF 116 SEE SHEET 101 OF 116



**CONVENTIONAL SYMBOLS**

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

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

DATUM  
VERTICAL N/A  
HORIZONTAL N/A

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 PURPOSES.

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.

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

DIRECTOR OF PROGRAM DEVELOPMENT	
APPROVED <u>Rustad</u> DATE <u>4-13-09</u>	
PROJECT MANAGER : TED DOMEY	
PROJECT NAME : NORTH TROY / TROY	
PROJECT NUMBER : STP-HES 2718(1)/STP 2717(1) STP 2620(1)/ STP 2621(1)	
SHEET 1 OF 116 SHEETS	



Stantec

p07c200.dgn  
p07c200cts.i

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2	COMPOSITE INDEX OF SHEETS
3-5	COMPOSITE QUANTITY SHEETS
6	COMPOSITE TEMPORARY TRAFFIC CONTROL PLAN
7	FRENCH CONSTRUCTION SIGN DETAIL SHEET

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14	DRIVE DETAIL SHEET
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## TROY STP 2621(1) VT ROUTE 243

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## VAOT STANDARDS

B-1	06-01-94
C-2A	10-14-05
C-2B	10-14-05
C-3A	03-10-08
C-3B	03-10-08
C-10	02-11-08
D-6	06-01-94
D-9	06-01-94
D-15	06-01-94
E-100	01-02-04
E-100A	01-02-04
E-101	05-30-03
E-102	06-30-03
E-102A	05-01-04
E-106	03-01-04
E-107	06-30-03
E-107A	08-08-95
E-108	12-08-08
E-108A	12-08-08
E-110	08-08-95
E-120	08-08-95
E-121	08-08-95
E-123	03-16-04
E-127	08-08-95
E-134	08-08-95
E-136B	08-08-95
E-138	05-30-03
E-140	08-30-96
E-141	09-20-95
E-142	09-20-95
E-143	06-15-04
E-150	05-01-04
E-152	05-01-04
E-153	05-01-04
E-154	05-01-04
E-164	05-20-99
E-191	02-01-99
E-192	10-12-00
E-193	08-18-95
G-1	01-03-2000
G-1d	01-03-2000
G-19	11-15-02
J-3	08-07-95



NOT TO SCALE

## COMPOSITE INDEX OF SHEETS

PROJECT NAME: NORTH TROY / TROY  
PROJECT NUMBER: STP-HES 2718(1)/STP 2717(1)  
STP 2620(1) / STP 2621(1)

FILE NAME: p07c200.dgn PLOT DATE: 25-OCT-2011 13:58  
PROJECT LEADER: JLL DRAWN BY: STANTEC  
DESIGNED BY: MCF CHECKED BY: JLL  
IPARM FILE: p07c200ind.i SHEET 2 OF 116

# COMPOSITE QUANTITY SHEET 1

TROY STP HES 2718 (1)					TROY STP 2717 (1)			NORTH TROY STP 2620 (1)				TROY STP 2621 (1)				TOTALS		DESCRIPTIONS				
ROADWAY	EMPLOYEE TRAINEESHIP	EROSION CONTROL	FULL C. E.	HES	ROADWAY	EROSION CONTROL	FULL C. E.	ROADWAY	BRIDGE	EROSION CONTROL	FULL C. E.	ROADWAY	BRIDGE	EROSION CONTROL	FULL C. E.	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NO.	ROUND	
								8								8		CY	COMMON EXCAVATION	203.15	-	
								5								5		CY	SOLID ROCK EXCAVATION	203.16	-	
550					100			25				25				700		CY	EARTH BORROW	203.30	-	
													2450			2450		LF	SHOULDER BERM REMOVAL	203.40	-	
1					1			1				1				4		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-	
1400					950			16800				13000				32150		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	-	
50								8								58		CY	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.26	-	
25					3930											3955		TON	SUBBASE, RAP	301.40	-	
810					1150											1960		TON	AGGREGATE SHOULDERS	402.12	-	
60					1245			100				150				1555		TON	AGGREGATE SHOULDERS, RAP	402.13	-	
370					4			70				55				499		CWT	EMULSIFIED ASPHALT	404.65	-	
1					1			1				1				4		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-	
					5870											5870		CWT	EMULSIFIED ASPHALT, COLD MIX	415.25	-	
																				BEGIN OPTION AA		
10000					4200			2000				1600				17800		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (0% RAP CONTENT)	490.30	-	
10000					4200			2000				1600				17800		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (0% < RAP CONTENT < 15.0%)	490.30	-	
10000					4200			2000				1600				17800		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (15.0% <= RAP CONTENT < 25.0%)	490.30	-	
10000					4200			2000				1600				17800		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (25.0% <= RAP CONTENT <= 50.0%)	490.30	-	
																				END OPTION AA		
1					1			1				1				4		LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-	
1					1							1				3		LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	490.32	-	
1					1							1				3		LU	SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.)	490.33	-	
1					1							1				3		LU	LONGITUDINAL JOINT COMPACTION PAY ADJUSTMENT (N.A.B.I.)	490.34	-	
									67							67		LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	-	
									100							100		CF	RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE	580.20	-	
1								1				1				3		EACH	CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES	604.40	-	
4								6				1				11		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	-	
4								5								9		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II	604.415	-	
3								5								8		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS III	604.418	-	
2								18								20		EACH	CHANGING ELEVATION OF SEWER MANHOLES	604.42	-	
115					60			30				20				225		HR	POWER GRADER RENTAL	608.15	-	
115					60			30				20				225		HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	-	
70					40			20				15				145		HR	POWER BROOM RENTAL, TYPE I	608.30	-	

PROJECT NAME: NORTH TROY / TROY  
PROJECT NUMBER: STP HES 2718(1) / STP 2717(1)  
STP 2620(1) / STP 2621(1)  
FILE NAME: p07c200.dgn PLOT DATE: 25-OCT-2011 13:59  
PROJECT LEADER: JLL DRAWN BY: STANTEC  
DESIGNED BY: STANTEC CHECKED BY: JLL  
**IPARM FILE: p07c200cqs01.i** SHEET 3 OF 116

# COMPOSITE QUANTITY SHEET 2

TROY STP HES 2718 (1)					TROY STP 2717 (1)			NORTH TROY STP 2620 (1)				TROY STP 2621 (1)				TOTALS		DESCRIPTIONS			
ROADWAY	EMPLOYEE TRAINEESHIP	EROSION CONTROL	FULL C. E.	HES	ROADWAY	EROSION CONTROL	FULL C. E.	ROADWAY	BRIDGE	EROSION CONTROL	FULL C. E.	ROADWAY	BRIDGE	EROSION CONTROL	FULL C. E.	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NO.	ROUND
115					60			30				20				225		HR	POWER BROOM RENTAL, TYPE II	608.31	-
115					60			30				20				225		HR	TRUCK RENTAL	608.37	-
115					60			30				20				225		HR	LOADER RENTAL, TYPE I	608.40	-
					2			1								3		MGAL	DUST CONTROL WITH WATER	609.10	-
		1260				1460				160					300	3180		CY	STONE FILL, TYPE I	613.10	-
1750																1750		LF	TREATED TIMBER CURB	616.35	-
					1											1		EACH	RELOCATE MAILBOX, SINGLE SUPPORT	617.10	-
								44								44		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.10	-
								60								60		SF	DETECTABLE WARNING SURFACE	618.30	-
50					22							4				76		EACH	YIELDING MARKER POSTS	619.17	-
4525					62.5							12.5				4600		LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	-
787.5																787.5		LF	STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS	621.205	-
					25											25		LF	STEEL BEAM GUARDRAIL, GALVANIZED/NESTED	621.206	-
					75											75		LF	HD STEEL BEAM GUARDRAIL, GALVANIZED/NESTED	621.216	-
22					4							1				27		EACH	MANUFACTURED TERMINAL SECTION, FLARED	621.50	-
								1								1		EACH	MANUFACTURED TERMINAL SECTION, TANGENT	621.51	-
												80				80		EACH	REPLACE GUARDRAIL POST ASSEMBLY	621.76	-
												40				40		EACH	REPLACE GUARDRAIL BEAM UNIT	621.77	-
5741					252			50				50				6093		LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	-
4								17								21		EACH	ADJUST ELEVATION OF VALVE BOX	629.20	-
900					880			980				460				3220		HR	UNIFORMED TRAFFIC OFFICERS	630.10	-
2700					2640			2940				1380				9660		HR	FLAGGERS	630.15	-
			0.25				0.25				0.25				0.25	1		LS	FIELD OFFICE, ENGINEERS	631.10	-
			0.5								0.5					1		LS	TESTING EQUIPMENT, CONCRETE	631.16	-
			0.25				0.25				0.25				0.25	1		LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-
			0.4				0.3				0.2				0.1	1		LU	FIELD OFFICE TELEPHONE (N. A. B. I.)	631.25	-
	520															520		HR	EMPLOYEE TRAINEESHIP	634.10	-
0.25					0.25			0.25				0.25				1		LS	MOBILIZATION/DEMOBILIZATION	635.11	-
1																1		LS	TRAFFIC CONTROL (STP-HES 2718 (1))	641.10	-
					1											1		LS	TRAFFIC CONTROL (STP 2717 (1))	641.10	-
								1								1		LS	TRAFFIC CONTROL (STP 2620 (1))	641.10	-
												1				1		LS	TRAFFIC CONTROL (STP 2621 (1))	641.10	-
1					1			1								3		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-
45000					24000			9500				7900				86400		LF	DURABLE 4 INCH WHITE LINE, THERMOPLASTIC	646.402	-

PROJECT NAME: NORTH TROY / TROY  
PROJECT NUMBER: STP HES 2718(1) / STP 2717(1)  
STP 2620(1) / STP 2621(1)  
FILE NAME: p07c200.dgn PLOT DATE: 25-OCT-2011 13:59  
PROJECT LEADER: JLL DRAWN BY: STANTEC  
DESIGNED BY: STANTEC CHECKED BY: JLL  
IPARM FILE: p07c200cqs02.i SHEET 4 OF 116

# COMPOSITE QUANTITY SHEET 3

TROY STP HES 2718 (1)					TROY STP 2717 (1)			NORTH TROY STP 2620 (1)				TROY STP 2621 (1)				TOTALS		DESCRIPTIONS			
ROADWAY	EMPLOYEE TRAINEESHIP	EROSION CONTROL	FULL C. E.	HES	ROADWAY	EROSION CONTROL	FULL C. E.	ROADWAY	BRIDGE	EROSION CONTROL	FULL C. E.	ROADWAY	BRIDGE	EROSION CONTROL	FULL C. E.	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NO.	ROUND
37500					19800			9400				8000				74700		LF	DURABLE 4 INCH YELLOW LINE , THERMOPLASTIC	646.412	-
230					60			100								390		LF	DURABLE 24 INCH STOP BAR , THERMOPLASTIC	646.482	-
45					17			35				18				115		EACH	DURABLE LETTER OR SYMBOL , THERMOPLASTIC	646.492	-
								380								380		LF	DURABLE CROSSWALK MARKING , THERMOPLASTIC	646.502	-
45000					48000			19100				15800				127900		LF	TEMPORARY 4 INCH WHITE LINE , PAINT	646.602	-
37500					39500			18800				16000				111800		LF	TEMPORARY 4 INCH YELLOW LINE , PAINT	646.612	-
230					115			200								545		LF	TEMPORARY 24 INCH STOP BAR , PAINT	646.682	-
45					34			70				36				185		EACH	TEMPORARY LETTER OR SYMBOL , PAINT	646.692	-
								760								760		LF	TEMPORARY CROSSWALK MARKING , PAINT	646.702	-
1800					920			500				300				3520		EACH	LINE STRIPING TARGETS	646.76	-
		5600				4950				710				1300		12560		SY	GEOTEXTILE UNDER STONE FILL	649.31	-
30					30			30				30				120		LB	SEED	651.15	-
250					250			250				250				1000		LB	FERTILIZER	651.18	-
1					1			1				1				4		TON	AGRICULTURAL LIMESTONE	651.20	-
25					25			25				25				100		CY	TOPSOIL	651.35	-
		7900				3800				1850				3200		16750		SY	TEMPORARY EROSION MATTING	653.20	-
111				179				213				15				518		SF	TRAFFIC SIGNS , TYPE A	675.20	-
265				535				395				30				1225		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	-
33				62	1			37				4				137		EACH	REMOVING SIGNS	675.50	-
				11												11		EACH	ERECTING SALVAGED SIGNS	675.60	-
26					4							1				31		EACH	DELINEATOR WITH STEEL POST	676.10	-
9												1				10		EACH	REMOVAL OF EXISTING DELINEATOR	676.12	-
1					1			1				1				4		LU	PRICE ADJUSTMENT , FUEL (N. A. B. I.)	690.50	-
					35600											35600		SY	SPECIAL PROVISION (COLD MIXED RECYCLED BITUMINOUS PAVEMENT , PORTLAND CEMENT)	900.675	-
1200					450			970				130				2750		SY	SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL , DRIVES)	900.675	-
					35600											35600		SY	SPECIAL PROVISION (RECLAIMED STABILIZED BASE , PORTLAND CEMENT)	900.675	-
					560											560		TON	SPECIAL PROVISION (PORTLAND CEMENT FOR BASE STABILIZATION)	900.680	-
					160											160		TON	SPECIAL PROVISION (PORTLAND CEMENT FOR COLD MIX RECYCLING)	900.680	-
2																2		EACH	ANCHOR FOR STEEL BEAM RAIL (COD*OI DATED 9-21-09)	621.60	-

PROJECT NAME: NORTH TROY / TROY  
PROJECT NUMBER: STP HES 2718(1) / STP 2717(1)  
STP 2620(1) / STP 2621(1)  
FILE NAME: p07c200.dgn PLOT DATE: 25-OCT-2011 13:59  
PROJECT LEADER: JLL DRAWN BY: STANTEC  
DESIGNED BY: STANTEC CHECKED BY: JLL  
IPARM FILE: p07c200cqs03.i SHEET 5 OF 116

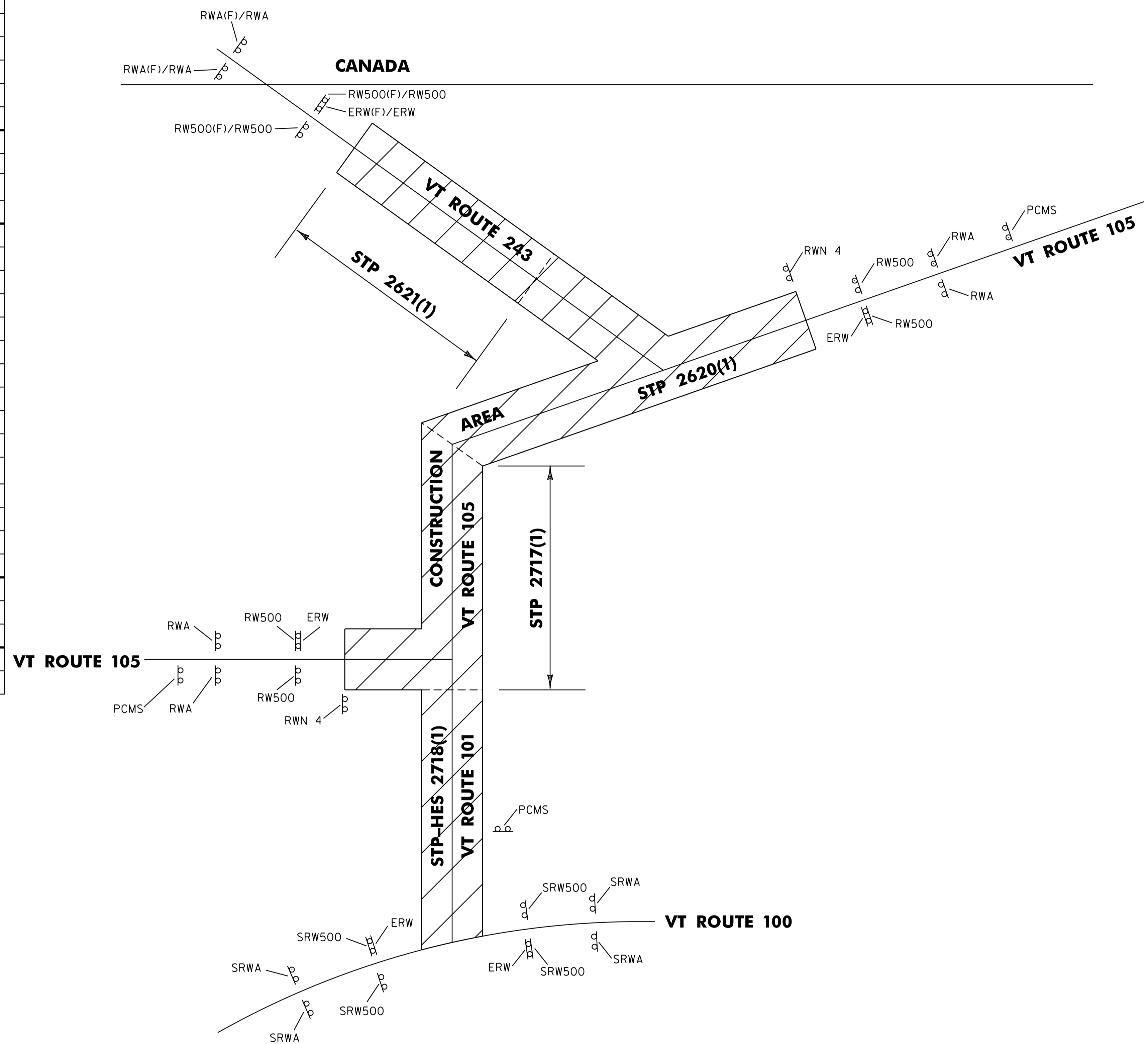
LOCATION	ERW	RW500	RWA	SRWA	SRW500	RWN 4	PCMS	ERW(F)	RW500(F)	RWA(F)
<b>STP-HES 2718 (1)</b>										
VT ROUTE 101 - BEGIN PROJECT							1			
VT ROUTE 100	2			4	4					
MEADOWLANE CIRCLE (T.H. 45)	1		1							
VT ROUTE 242	1			4	4					
BELLA VISTA (T.H. 43)	1		1							
LACHANCE/VIELLEUX RD (T.H. 12)	1		1							
<b>STP-HES 2718 (1) SUBTOTAL</b>	<b>6</b>		<b>3</b>	<b>8</b>	<b>8</b>		<b>1</b>			
<b>STP 2717 (1)</b>										
VT ROUTE 105 - BEGIN PROJECT	1	2	2			1	1			
VINCENT ROAD (T.H. 5)	1		1							
<b>STP 2717 (1) SUBTOTAL</b>	<b>2</b>	<b>2</b>	<b>3</b>			<b>1</b>	<b>1</b>			
<b>STP 2620 (1)</b>										
ROBINSON AVENUE	1		1							
BLAIR ROAD	1		1							
HIGH STREET	1		1							
NASON TERRACE	1		1							
NASON TERRACE	1		1							
ELKINS DRIVE	1		1							
PINE STREET	1		1							
VT ROUTE 105 - END PROJECT	1	2	2			1	1			
DOMINION AVENUE	1		1							
ELM STREET	1		1							
SCHOOL STREET	1		1							
HILL STREET	1		1							
MAIN STREET	1		1							
<b>STP 2620 (1) SUBTOTAL</b>	<b>13</b>	<b>2</b>	<b>14</b>			<b>1</b>	<b>1</b>			
<b>STP 2621 (1)</b>										
VT ROUTE 243 - BEGIN PROJECT	1	2	2					1	2	2
<b>STP 2621 (1) SUBTOTAL</b>	<b>1</b>	<b>2</b>	<b>2</b>					<b>1</b>	<b>2</b>	<b>2</b>
<b>TOTAL</b>	<b>22</b>	<b>6</b>	<b>22</b>	<b>8</b>	<b>8</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>2</b>

NOTES:

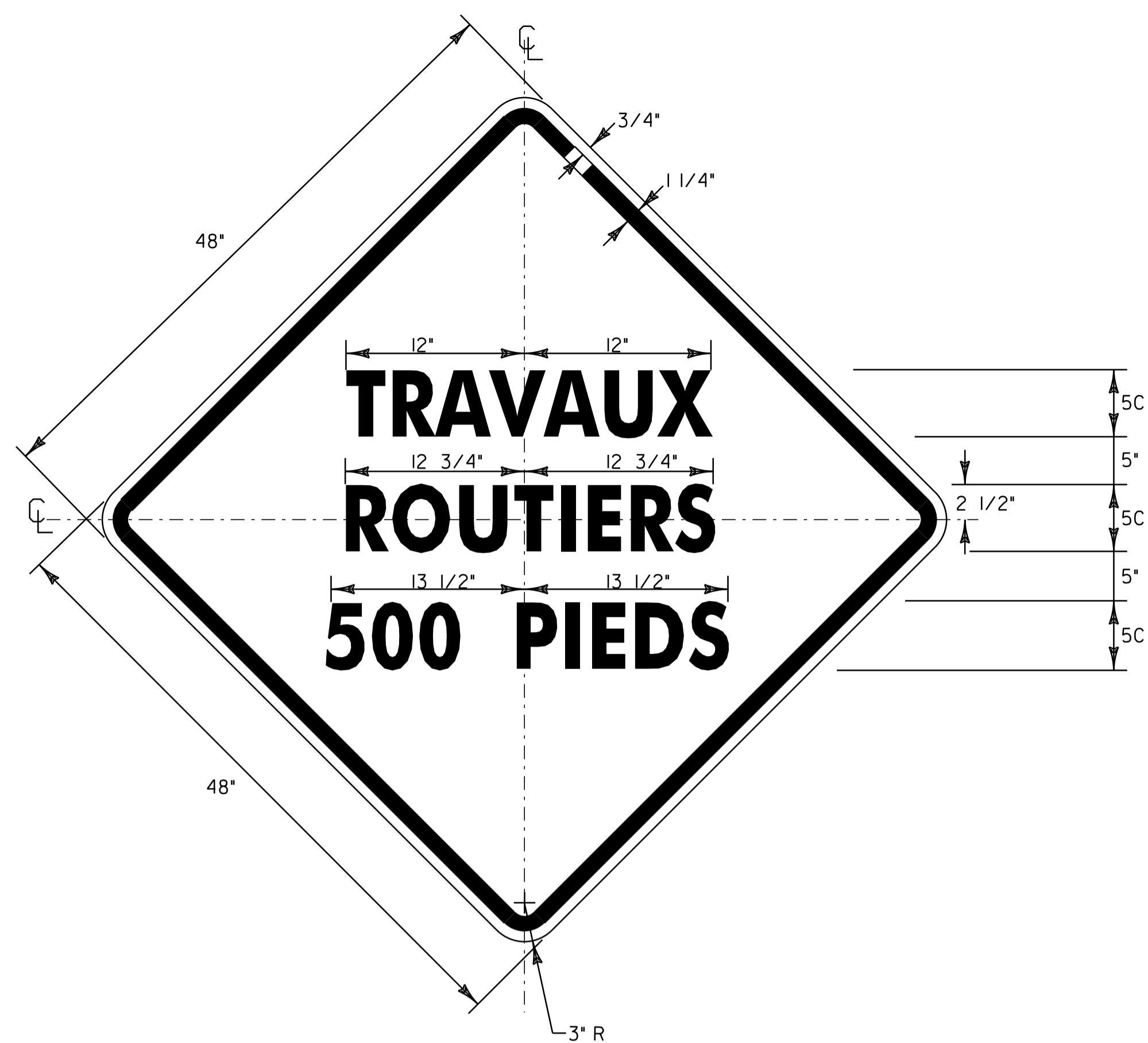
- SEE VAOT STD. E-100 FOR ADDITIONAL SIGN PLACEMENT.
- CONSTRUCTION ZONE SIGN LAYOUT SHALL BE IN ACCORDANCE WITH SECTION 6 OF THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- CONSTRUCTION SIGNS SHALL BE IN NEW OR LIKE NEW CONDITION PER VAOT STANDARDS.
- ALL TEMPORARY CONSTRUCTION SIGNS SHALL BE MOUNTED ON STANDS OR POSTS THAT COMPLY WITH NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM REPORT 350 (NCHRP 350).
- ROLL UP SIGN MATERIAL SHALL HAVE ASTM D 4956-01 TYPE VI FLUORESCENT ORANGE RETRO-REFLECTIVE SHEETING.
- ALL POST MOUNTED SIGNS AND SOLID SUBSTRATE PORTABLE SIGNS SHALL HAVE ASTM D 4956-01 TYPE VII, TYPE VIII, OR TYPE IX FLUORESCENT ORANGE RETRO-REFLECTIVE SHEETING.
- ALL SHEETING ON TRAFFIC CONES, DRUMS AND BARRICADES SHALL BE A MINIMUM ASTM D 4950-01 TYPE III.
- ALL TEMPORARY CONSTRUCTION SIGNS SHALL BE INSTALLED SO AS NOT TO INTERFERE WITH OR OBSTRUCT ANY TRAFFIC CONTROL DEVICE, DRIVE OR TOWN HIGHWAY.
- PORTABLE CHANGEABLE MESSAGE SIGNS ARE OPTIONAL AND ARE TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT WILL BE MADE UNDER ITEM 641.5.
- PAYMENT FOR CONSTRUCTION SIGNING WILL BE MADE UNDER ITEM 641.0 TRAFFIC CONTROL.
- PERMISSION MUST BE OBTAINED PRIOR TO PLACING CONSTRUCTION SIGNING IN CANADA. FOR THE APPROPRIATE PERMISSION AND PROTOCOL CONTACT: MR. MARC BOUCHARD AT CENTRE DE SERVICE DE SHERBROOKE ET COORDINATION TERRITORIALE DE L'EXPLOITATION, DIRECTION DE L'ESTRIE, 125 CHEMIN GEORGES-VALLIERES, SHERBROOKE (QUEBEC), J1H 0B7, (819) 562-2693 POSTE: 234.
- THE FRENCH CONSTRUCTION APPROACH SIGNING WILL BE INSTALLED ABOVE THE ENGLISH SIGNS AS DIRECTED BY THE RESIDENT ENGINEER.
- SEE SHEET 7 OF 116 FOR FRENCH SIGN DETAILS AND THEIR ENGLISH EQUIVALENT.

LEGEND

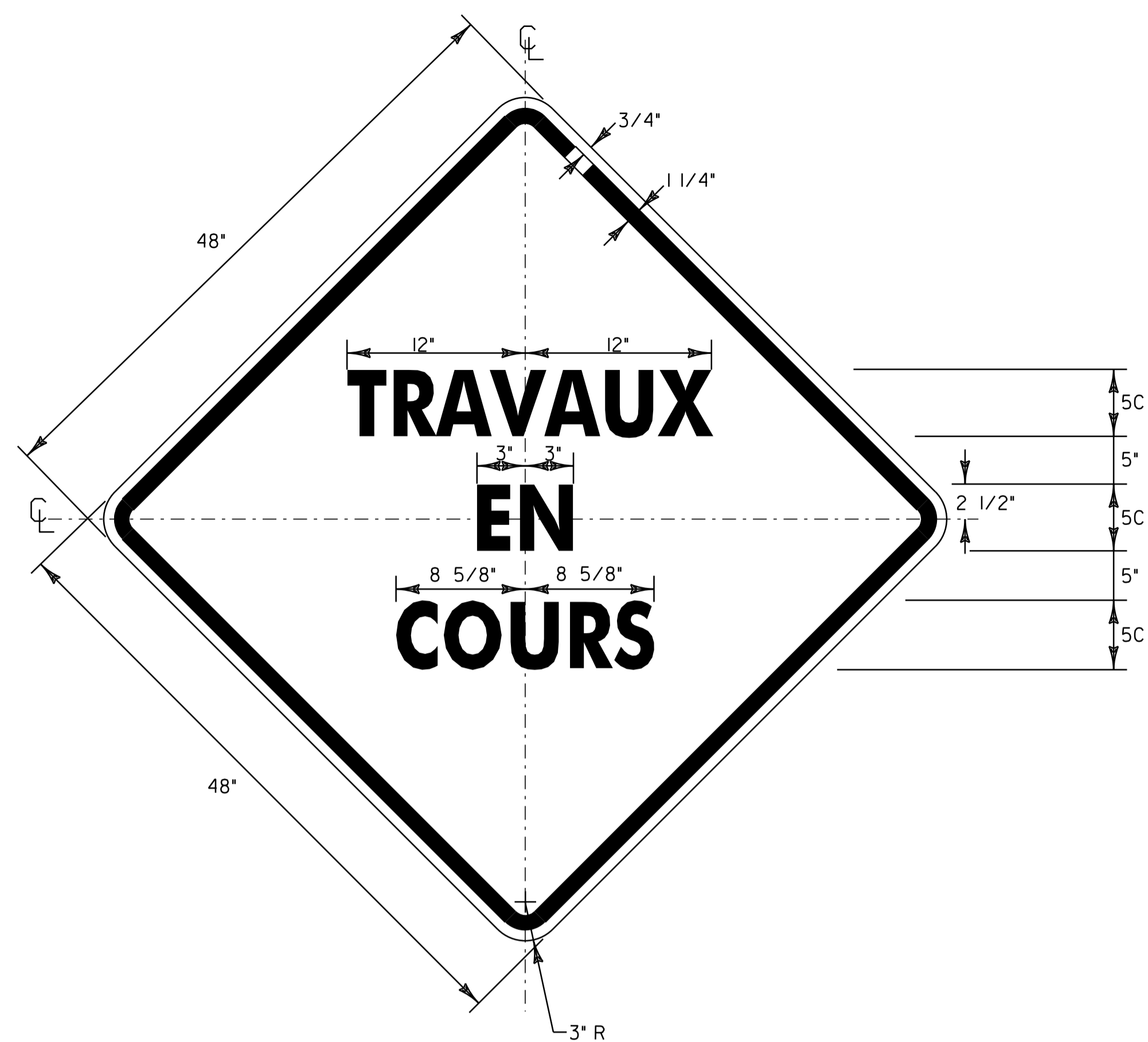
- ERW = END ROAD WORK
- RW500 = ROAD WORK 500 FT
- RWA = ROAD WORK AHEAD
- SRWA = SIDE ROAD WORK AHEAD
- SRW500 = SIDE ROAD WORK 500 FT
- RWN 4 = ROAD WORK NEXT 4 MILES
- PCMS = PORTABLE CHANGEABLE MESSAGE SIGN
- ERW(F) = END ROAD WORK (FRENCH)
- RW500(F) = ROAD WORK 500 FT (FRENCH)
- RWA(F) = ROAD WORK AHEAD (FRENCH)



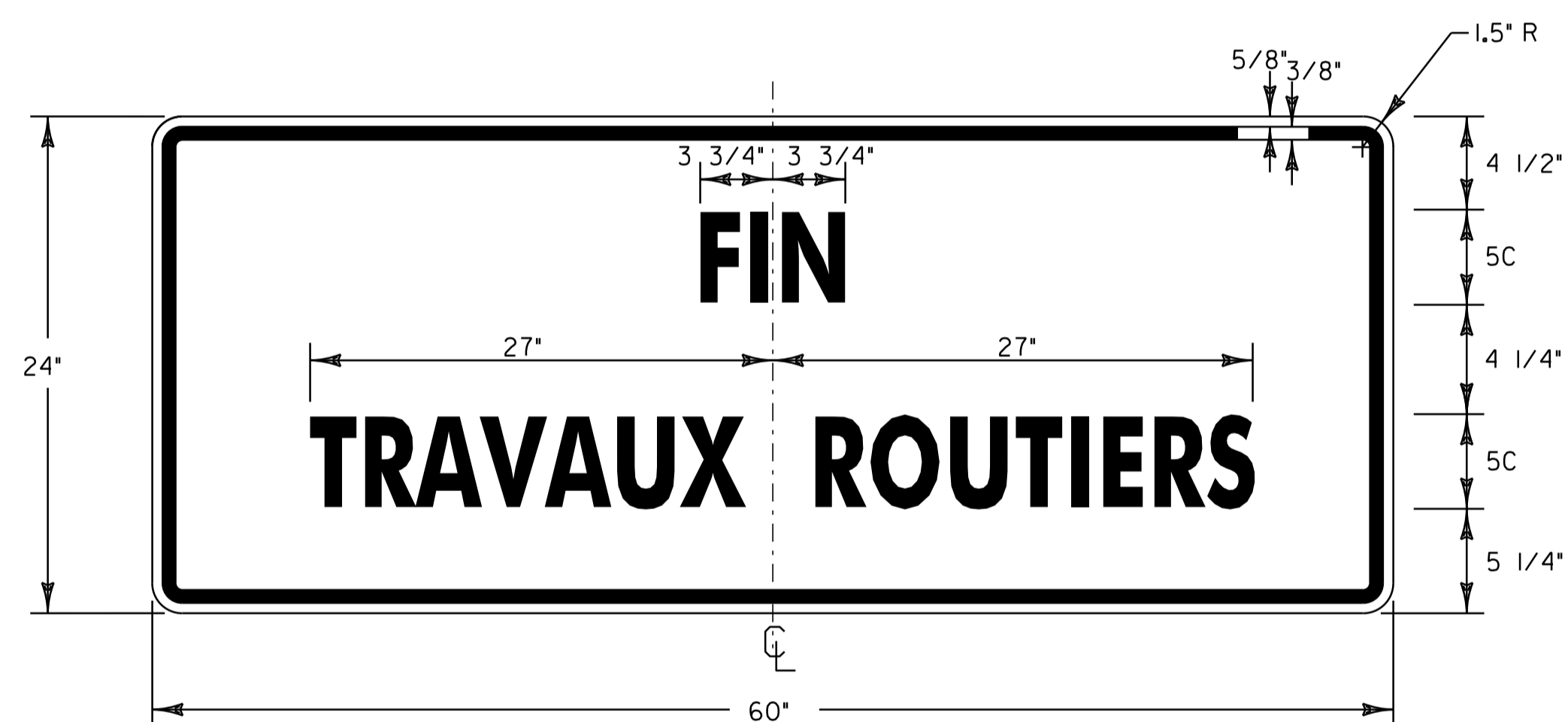
<b>COMPOSITE TEMPORARY TRAFFIC CONTROL PLAN</b>	<b>NOT TO SCALE</b>	
	PROJECT NAME: NORTH TROY / TROY	PLOT DATE: 25-OCT-2011 13:59
	PROJECT NUMBER: STP-HES 2718(1)/STP 2717(1) STP 2620(1) / STP 2621(1)	DRAWN BY: STANTEC
FILE NAME: p07c200.dgn	DESIGNED BY: MCF	CHECKED BY: JLL
IPARM FILE: p07c200ctcp.i		SHEET 6 OF 116



SEE NOTES ON SHEET 6 FOR COLORS & MATERIALS  
(ENGLISH EQUIVALENT: ROAD WORK 500 FT)



SEE NOTES ON SHEET 6 FOR COLORS & MATERIALS  
(ENGLISH EQUIVALENT: ROAD WORK AHEAD)



SEE NOTES ON SHEET 6 FOR COLORS & MATERIALS  
(ENGLISH EQUIVALENT: END ROAD WORK)



NOT TO SCALE  
**FRENCH  
CONSTRUCTION  
SIGN DETAIL  
SHEET**

PROJECT NAME: NORTH TROY / TROY  
PROJECT NUMBER: STP-HES 2718(1)/STP 2717(1)  
STP 2620(1) / STP 2621(1)

FILE NAME: p07c200.dgn  
PROJECT LEADER: JLL  
DESIGNED BY: MCF  
IPARM FILE: p07c200cs.i

PLOT DATE: 25-OCT-2011 13:59  
DRAWN BY: STANTEC  
CHECKED BY: JLL  
SHEET 7 OF 116

# STATE OF VERMONT AGENCY OF TRANSPORTATION



## PROPOSED IMPROVEMENT TOWN OF TROY COUNTY OF ORLEANS VT ROUTE 101 & VT ROUTE 101 APPROACH

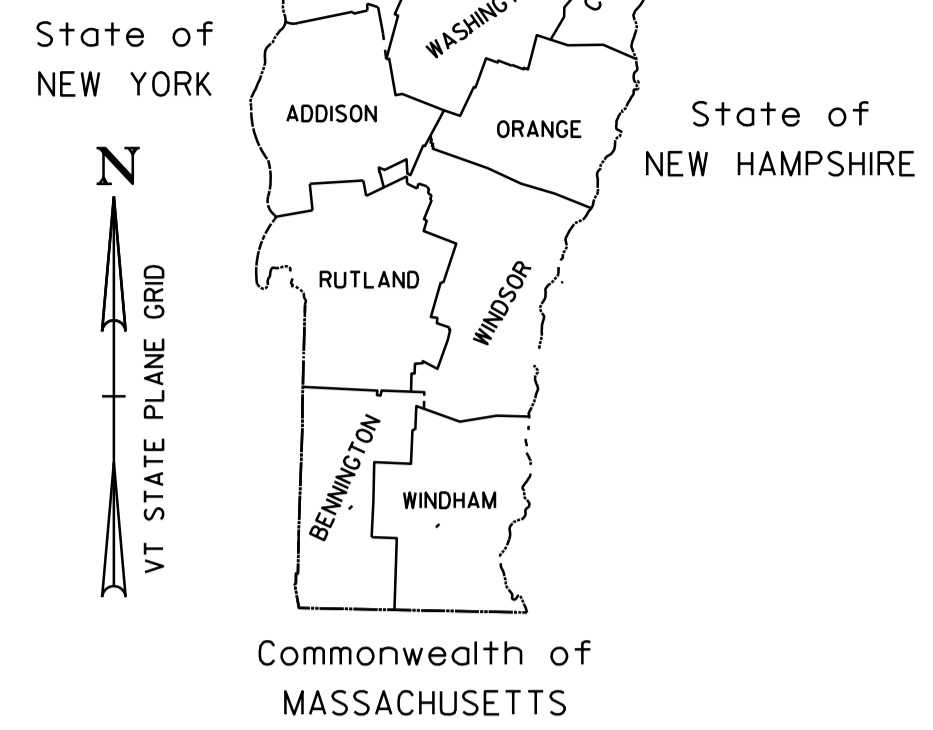
BEGINNING IN THE TOWN OF TROY ON VT ROUTE 101 AT THE INTERSECTION OF VT ROUTE 100 AND EXTENDING NORTHERLY ALONG VT ROUTE 101 FOR A DISTANCE OF 22,920.48 FEET (4.34 MILES) TO STA. 229+73.28 (MM 4.351) AT THE INTERSECTION OF VT ROUTE 105. THIS PROJECT ALSO CONSISTS OF 190.08 FEET (0.036 MILE) OF VT ROUTE 101 APPROACH.

PROJECT DATA:	LENGTH (FEET)	LENGTH (MILES)
TOWN OF TROY		
VT ROUTE 101		
STA. 0+52.80 TO 229+73.28	22,920.48	4.341
MM 0.010 TO 4.351		
VT ROUTE 101 APPROACH		
STA. A 0+17.00 TO A 2+07.08	190.08	0.036
MM 0.000 TO 0.046		

TOTAL LENGTH OF PROJECT: 23,110.56 FEET = 4.377 MILES  
TOTAL LENGTH OF ROADWAY: 23,110.56 FEET = 4.377 MILES

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES RESURFACING OF THE EXISTING HIGHWAY WITH A LEVELING AND WEARING COURSE, NEW PAVEMENT MARKINGS, GUARD RAIL, SIGNS AND OTHER INCIDENTAL ITEMS

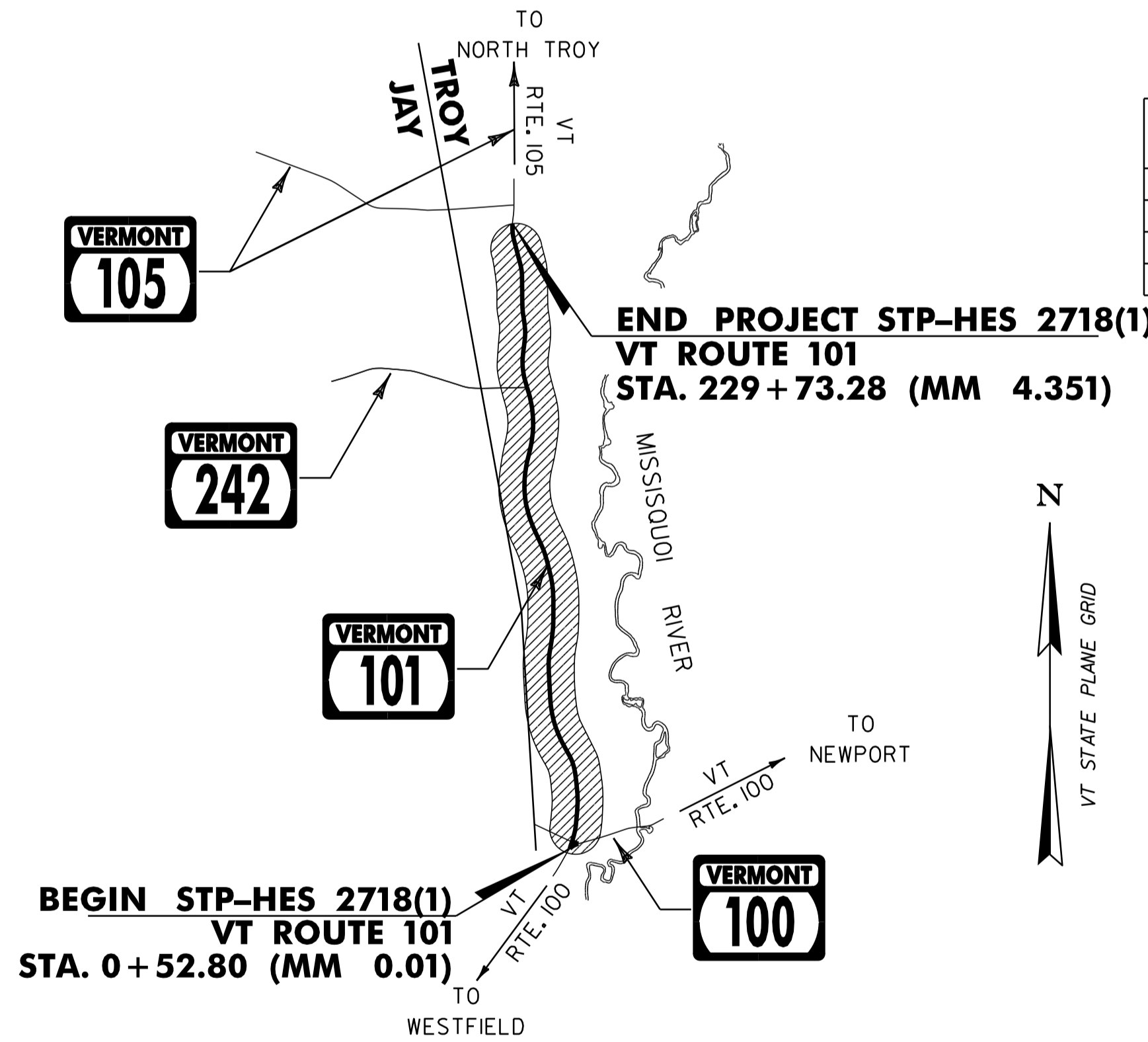
**PROJECT  
STP-HES 2718(1)**



SUPERPAVE BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESALS	1,039,000
DESIGN NUMBER OF GYRATIONS	65
PERFORMANCE GRADE ASPHALT BINDER	SEE SECTION 490 GENERAL SPECIAL PROVISIONS

**TRAFFIC DATA**  
VT ROUTE 101 & VT ROUTE 101 APPROACH

LOCATION	AADT		DHV		ESALS	
	2009	2019	2009	2019	2009-2019	2009-2029
VT 101 FROM VT 100 (MM 0.000) TO VT 242 (MM 3.132)	1,800	2,000	200	220	919,000	2,078,000
VT 101 FROM VT 242 (MM 3.132) TO VT 105 (MM 4.333)	1,200	1,300	130	140	695,000	1,733,000
VT 101 APPROACH FROM MM 0.000 TO MM 0.046	1,300	1,400	140	150	669,000	1,665,000



**CONVENTIONAL SYMBOLS**

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

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

DATUM  
VERTICAL N/A  
HORIZONTAL N/A

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 PURPOSES.

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.

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

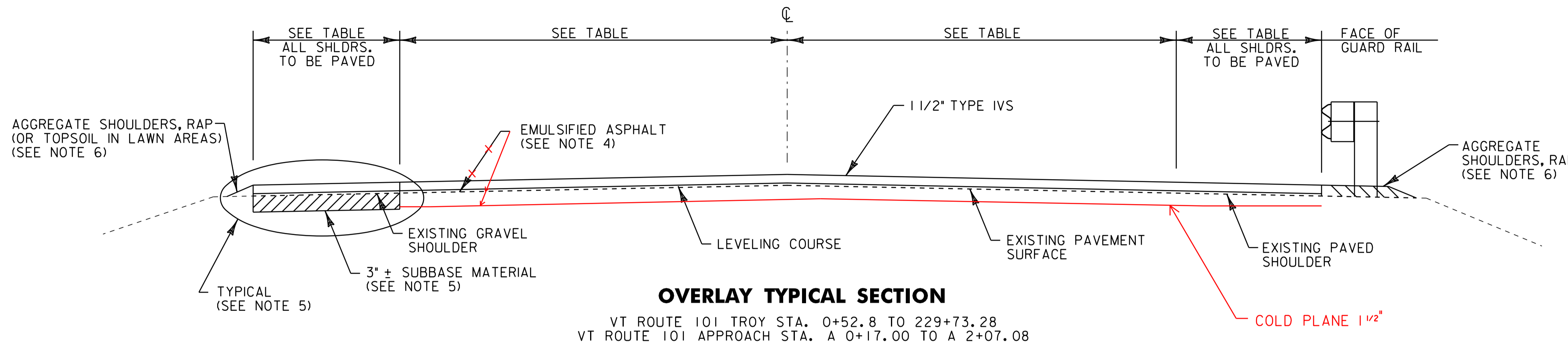


p07c200.dgn  
p07c200+1.s.t

PROJECT NAME : TROY  
PROJECT NUMBER : STP-HES 2718(1)  
SHEET 8 OF 116 SHEETS

**NOTES**

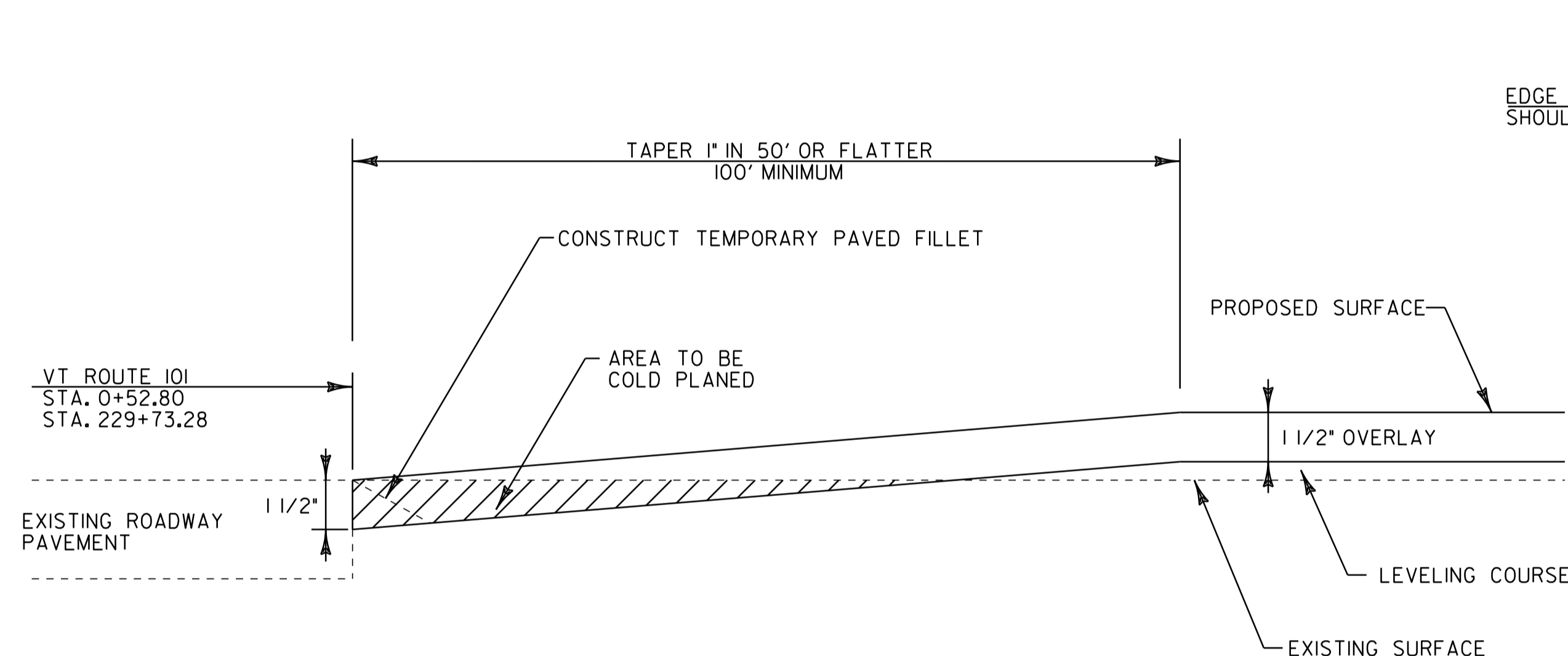
- THE PAVEMENT WEARING COURSE SHALL BE SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TYPE IVS. THE ESTIMATED 1/2" LEVELING COURSE SHALL BE SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TYPE IVS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- GRASS GROWING ADJACENT TO PAVEMENT OR THROUGH CRACKS IN THE PAVEMENT WHICH MAY 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 INCIDENTAL TO ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
- SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = ± 1/4" (TOTAL THICKNESS EXCLUDING LEVELING)
- EMULSIFIED ASPHALT SHALL BE APPLIED ON EXISTING PAVEMENT SURFACES, BETWEEN ALL COURSES OF PAVEMENT AND ON COLD PLANED SURFACES, AT THE RATE OF 0.025 GAL/SY OR AS DIRECTED BY THE ENGINEER.
- EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE RESIDENT ENGINEER, SHALL BE EXCAVATED TO A DEPTH OF 3" OR AS DIRECTED BY THE ENGINEER.  
  
EXCAVATION WILL BE PAID FOR AS ALL PURPOSE EXCAVATOR, TYPE 10R POWER GRADER RENTAL.  
  
MATERIAL REMOVED SHALL BE REPLACED WITH ITEM 301.26 SUBBASE OF CRUSHED GRAVEL, FINE GRADED OR ITEM 301.40 SUBBASE, RAP AS DIRECTED BY THE ENGINEER.  
  
EXCAVATED MATERIAL SHALL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM PROJECT, AS DIRECTED BY THE ENGINEER.
- COLD PLANE GRINDINGS MAY BE USED INSTEAD OF AGGREGATE SHOULDERS TO BACK UP THE NEW PAVEMENT OVERLAY AS DIRECTED BY THE RESIDENT ENGINEER. THIS WILL BE PAID UNDER ITEM 402.J3 AGGREGATE SHOULDERS, RAP. IF THERE IS NOT ENOUGH COLD PLANED MATERIAL AVAILABLE, USE ITEM 402.J2, AGGREGATE SHOULDERS.
- ESTIMATED QUANTITIES OF ITEMS 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE 1, ITEM 608.37 TRUCK RENTAL AND ITEM 608.40 LOADER RENTAL, TYPE 1 HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL END SECTION FLARES WITH EXCAVATED DITCHING MATERIAL. AN ESTIMATED QUANTITY OF 203.30 EARTH BORROW HAS BEEN INCLUDED IN THE CASE THAT THE DITCHING MATERIAL IS NOT SUITABLE TO USE IN THE GUARDRAIL END SECTION FLARE AREA. 25 CUBIC YARDS OF EARTH BORROW HAVE BEEN ESTIMATED FOR EACH NEW GUARDRAIL END SECTION FLARE. ITEM 653.20 TEMPORARY EROSION MATTING SHALL BE PLACED ON ALL SLOPES CREATED BY THE GUARDRAIL END SECTION FLARE. THE QUANTITIES INCLUDED REFLECT 25 SY OF ITEM 653.20 TEMPORARY EROSION MATTING FOR EACH NEW GUARDRAIL END SECTION FLARE.
- THE PROPOSED GUARDRAIL SHALL BE INSTALLED IN A LOCATION THAT MAXIMIZES THE DISTANCE FROM THE CENTER OF THE ROAD TO THE FACE OF GUARDRAIL AS DIRECTED BY THE RESIDENT ENGINEER. 3' OF BACKING IS REQUIRED BEHIND THE FACE OF GUARDRAIL WITH 6' POSTS. IF THIS CANNOT BE OBTAINED, THEN 8' POSTS SHALL BE USED.
- ALL DRIVES SHALL RECEIVE A PAVED APRON AS DIRECTED BY THE RESIDENT VAOT ENGINEER. SEE SHEET 14 FOR DETAILS AND PAYMENT PROVISIONS.
- AN ESTIMATED QUANTITY OF ITEM 619.I7 YIELDING MARKER POSTS HAS BEEN INCLUDED TO DELINEATE PIPE INLETS, PIPE OUTLETS AND DROP INLETS LOCATED OUTSIDE OF THE PAVEMENT SURFACE OR AS DIRECTED BY THE RESIDENT ENGINEER.
- STEEL BEAM GUARDRAIL WITH STEEL POSTS SHALL BE USED ON THIS PROJECT.
- A QUANTITY FOR ITEM 604.412 REHAB, DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I, ITEM 604.415 REHAB, DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II, ITEM 604.418 REHAB, DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS III AND ITEM 604.40 CHANGING ELEVATION OF DI, CB, OR MH HAS BEEN INCLUDED TO BE USED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER. ALL DI'S SHALL BE RAISED OR REHABILITATED SUCH THAT THE NEW GRATE ELEVATION IS EVEN WITH THE SURROUNDING TERRAIN. DRAINAGE STRUCTURES CALLING FOR REHAB HAVE BEEN EVENLY DISTRIBUTED BETWEEN ITEMS 604.412, 604.415, AND 604.418 FOR ESTIMATING PURPOSES.
- THIS PROJECT STP-HES 2718(I) TRANSITIONS INTO PROJECT STP 2717(I) FROM VT ROUTE 101 STATION 228+73 TO 229+73. SEE THE TRANSITION DETAIL ON THE STP 2717(I) PROJECT TYPICAL SHEET (SHEET 48 OF 116).



VT ROUTE 101 TROY STA. 0+52.8 TO 229+73.28  
VT ROUTE 101 APPROACH STA. A 0+17.00 TO A 2+07.08

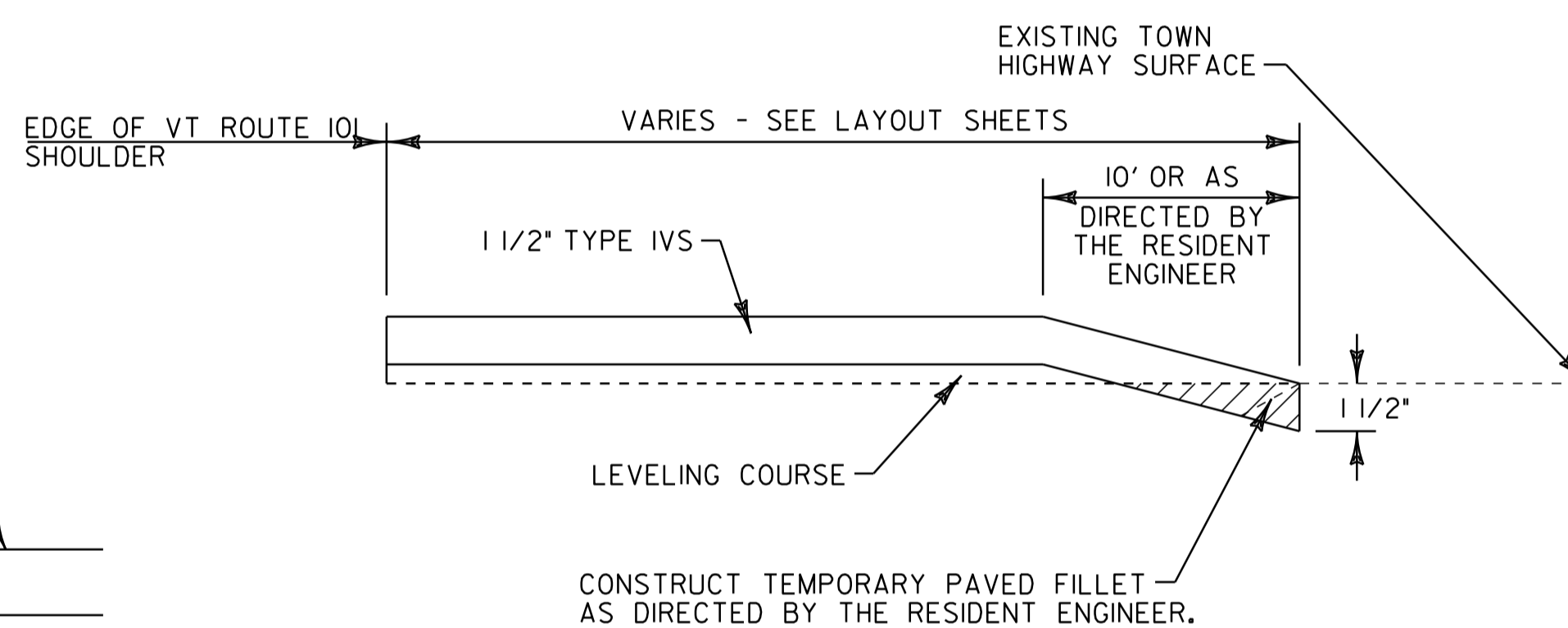
**PROJECT PAVING LIMITS**

TOWN & ROUTE	BEGIN STATION	END STATION	LANE TYPICAL	WEARING DEPTH	LEVELING TONS	NOTES
TROY VT ROUTE 101	1+68	219+00	5'-0" - 12'-0" - 12'-0" - 5'-0"	1 1/2"	2280	LEVEL, AND THEN PAVE WITH 1 1/2" TYPE IVS.
TROY VT ROUTE 101	219+00	220+00	VARIES - SEE LAYOUT SHEET	1 1/2"	10	LEVEL, AND THEN PAVE WITH 1 1/2" TYPE IVS.
TROY VT ROUTE 101	220+00	229+73.28	4'-0" - 12'-0" - 12'-0" - 4'-0"	1 1/2"	96	LEVEL, AND THEN PAVE WITH 1 1/2" TYPE IVS.
TROY VT ROUTE 101 APPROACH	A 0+17.00	A 2+07.08	VARIES - SEE LAYOUT SHEET	1 1/2"	30	LEVEL, AND THEN PAVE WITH 1 1/2" TYPE IVS. COLD PLANE 1 1/2", LEVEL, PAVED WITH 1 1/2" TYPE IV



**APPROACH AREA DETAIL (BEGIN AND END LEVELING AND OVERLAY)**

**FULL ROADWAY WIDTH**  
VT ROUTE 101 STA. 0+52.80 (BEGIN PROJECT)  
VT ROUTE 101 STA. 229+73.28 (END PROJECT)  
VT ROUTE 101 APPROACH STA. A 2+07.08



**APPROACH AREA DETAIL - TOWN HIGHWAYS**

NOTE: THIS DETAIL SHALL BE USED FOR THE SIDE ROADS LISTED BELOW AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT SHALL BE INCIDENTAL TO ITEM 490.30.

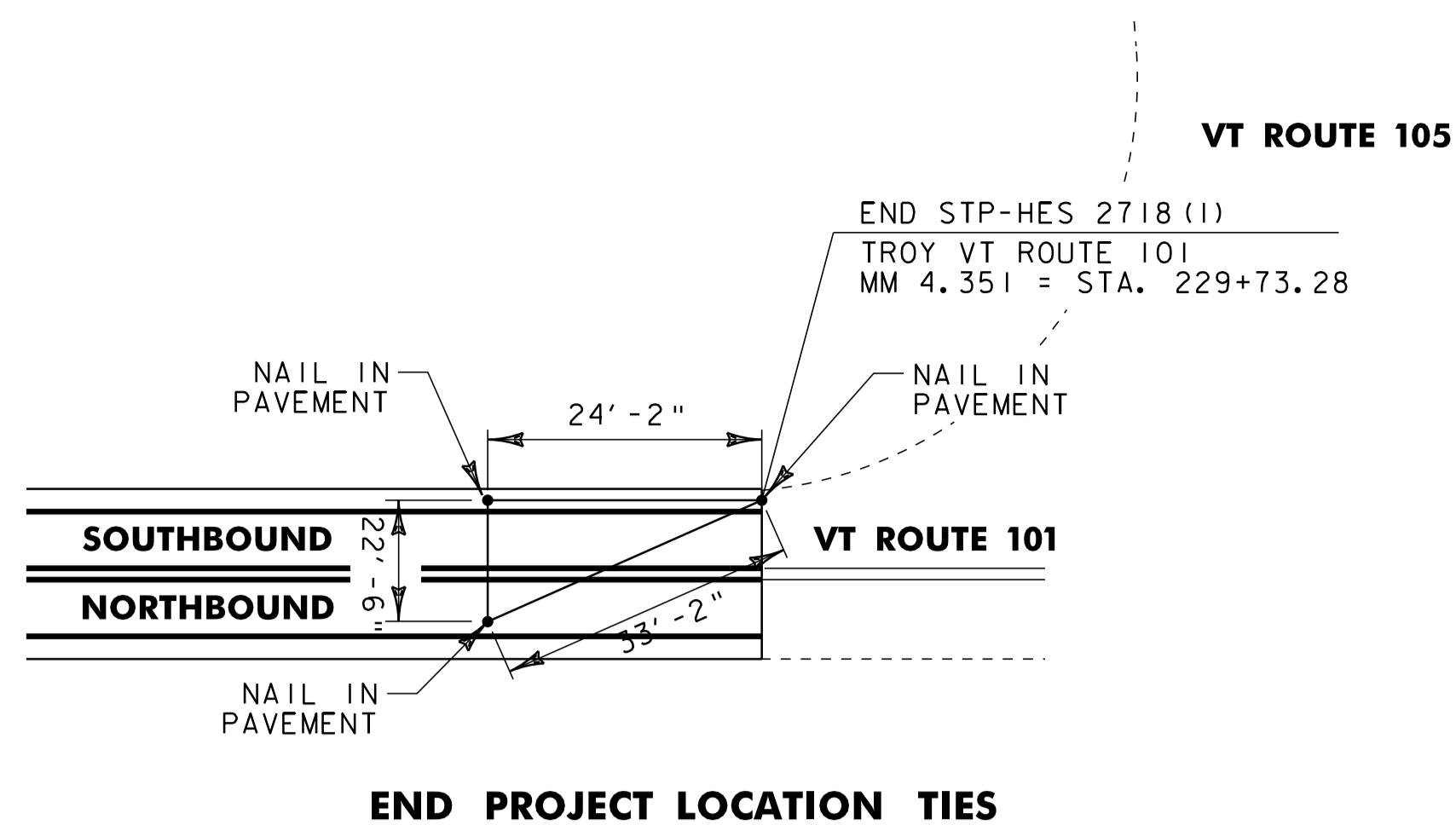
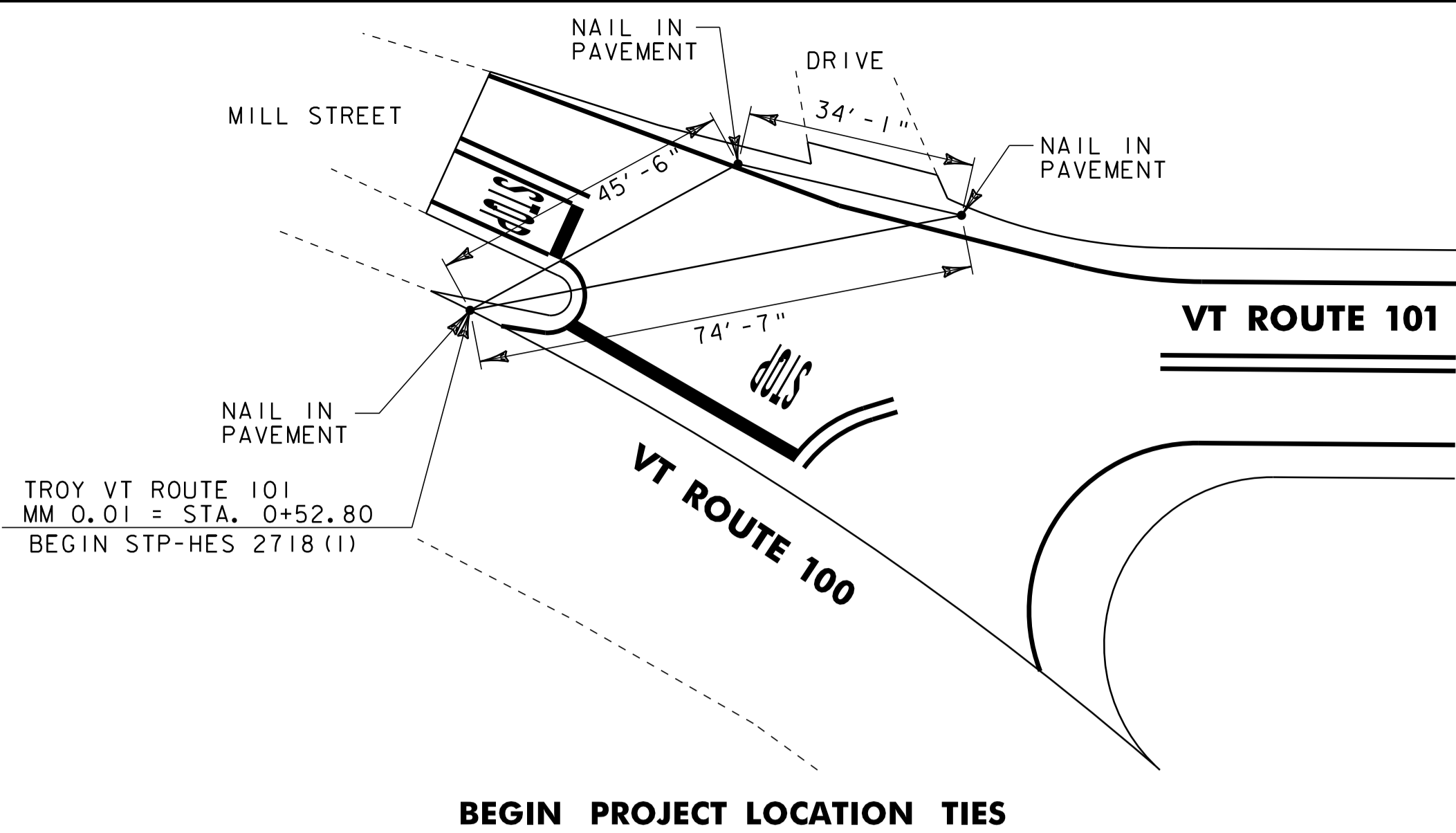
**FULL WIDTH OF TOWN HIGHWAY**  
STA. 1+26.0 (MILL STREET)  
STA. 2+69.0 (SOUTH PLEASANT STREET)  
STA. 2+91.1 (VT ROUTE 101 APPROACH)  
STA. 24+95.0 (MEADOWLANE CIRCLE)  
STA. 33+09.0 (WINDY LANE)  
STA. 165+88 (VT ROUTE 242)  
STA. 211+82.0 (TH-43 BELLE VISTA)  
STA. 227+11.0 (LACHANCE/VIELLEUX ROAD)



NOT TO SCALE

**PROJECT TYPICAL SHEET**

PROJECT NAME: TROY	FILE NAME: p07c200.dgn	PLOT DATE: 25-OCT-2011 13:59
PROJECT NUMBER: STP-HES 2718(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
	DESIGNED BY: MCF	CHECKED BY: JLL
	IPARM FILE: p07c200pts.i	SHEET 9 OF 116



**RURAL AREAS - SEED MIXTURE**

% 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 TREFLOIL	98	85
5.0	3.0	ANNUAL RYEGRASS	95	85
100	60			

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 ENGINEER.

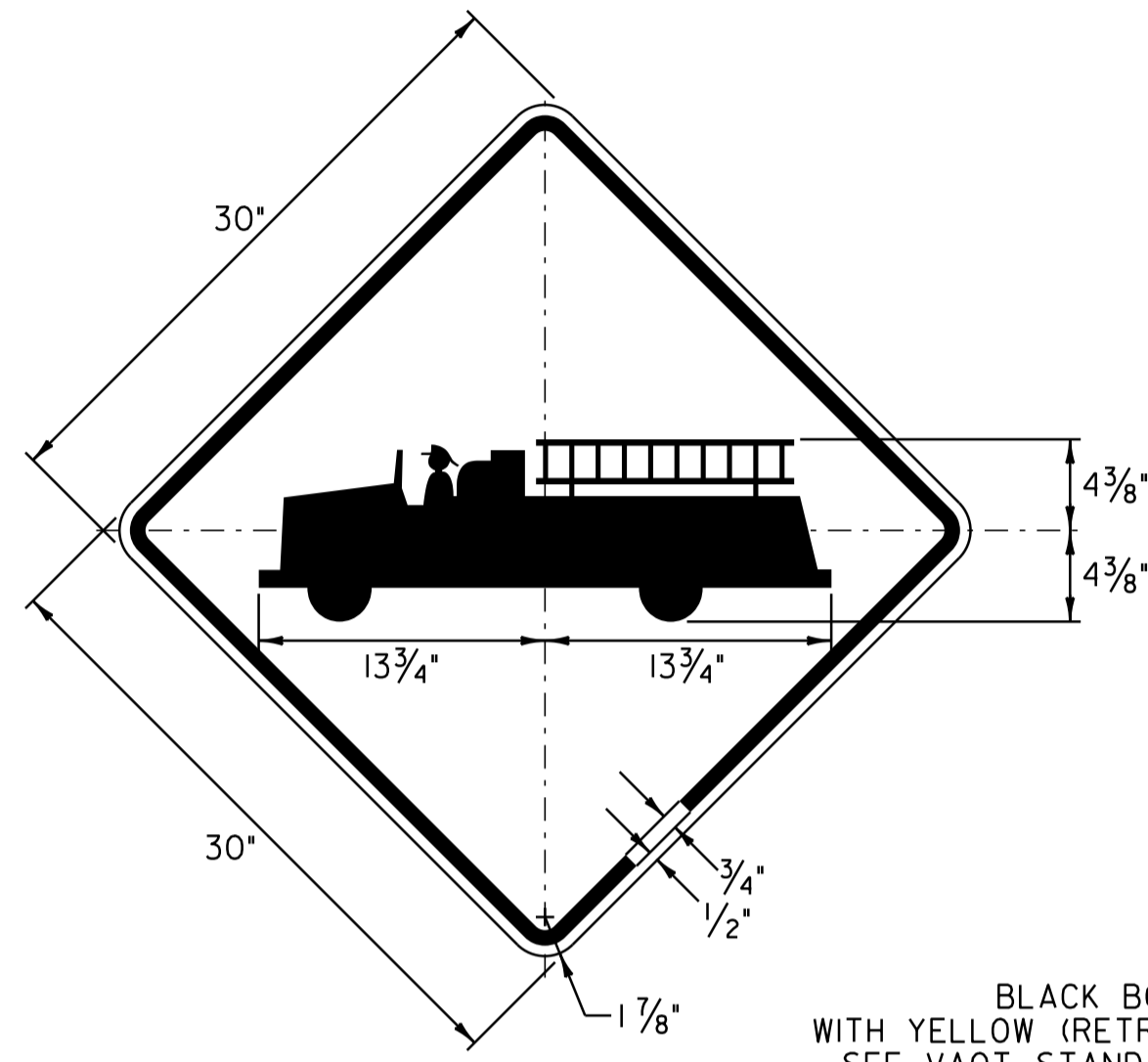
FERTILIZER:  
FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS/ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA.)

AGRICULTURAL LIMESTONE:  
TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE RESIDENT ENGINEER.

TEMPORARY EROSION MATTING (ITEM 653.20):  
TO BE PLACED ON EARTH SLOPES AS DIRECTED BY THE RESIDENT ENGINEER.

TOPSOIL:  
TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER.

**BEGIN PROJECT LOCATION TIES**

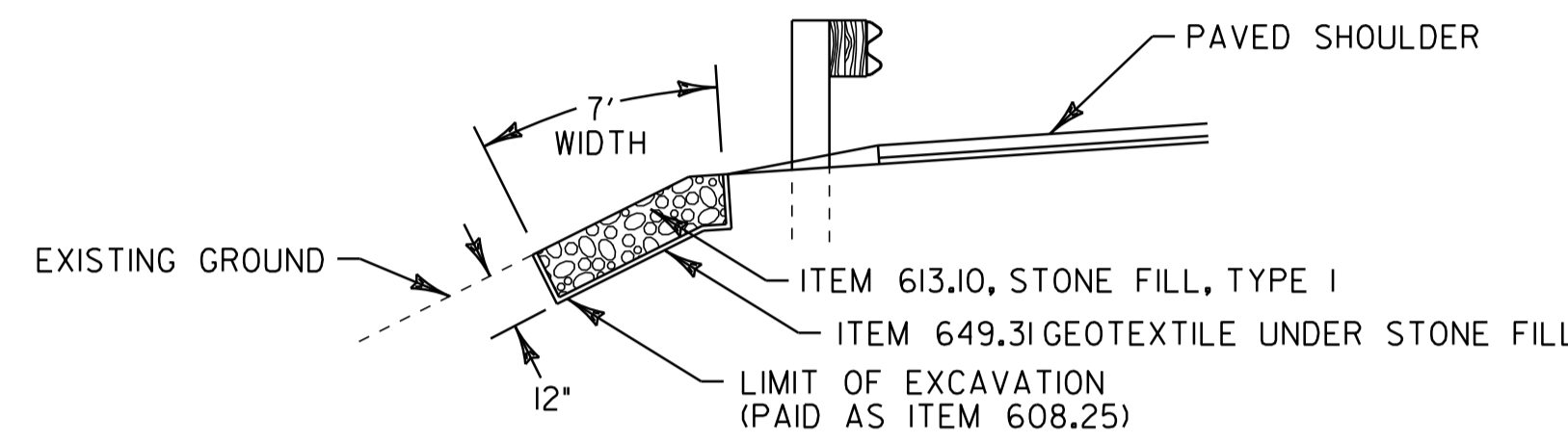


**W11-8**

BLACK BORDER & SYMBOL  
WITH YELLOW (RETRO REFLECTIVE) BACKGROUND  
SEE VAOT STANDARD E-153 FOR MATERIALS

**LOCATION**

VT ROUTE 101 STA. 13+32, LT.



**SLOPE EROSION REPAIR DETAIL**

STA. 222+70 TO 225+00, RT

**REHAB. DI'S, CB'S or MH'S, CLASS I, II, III**  
(ITEM 604.412, 604.415, 604.418)

**VT ROUTE 101**

STATION	POSITION	DESCRIPTION
A 1+14	LT	DI
11+32	LT	DI
12+43	LT	DI
13+13	LT	DI
14+14	LT	DI
29+50	RT	CHANGE WATER MH ELEV.
37+49	RT	DI
58+51	RT	CHANGE DI ELEV.
61+32	RT	DI
63+84	RT	DI
115+66	RT	DI
2+40	LT	DI

**CHANGING ELEVATION OF SEWER MANHOLES**  
(ITEM 604.42)

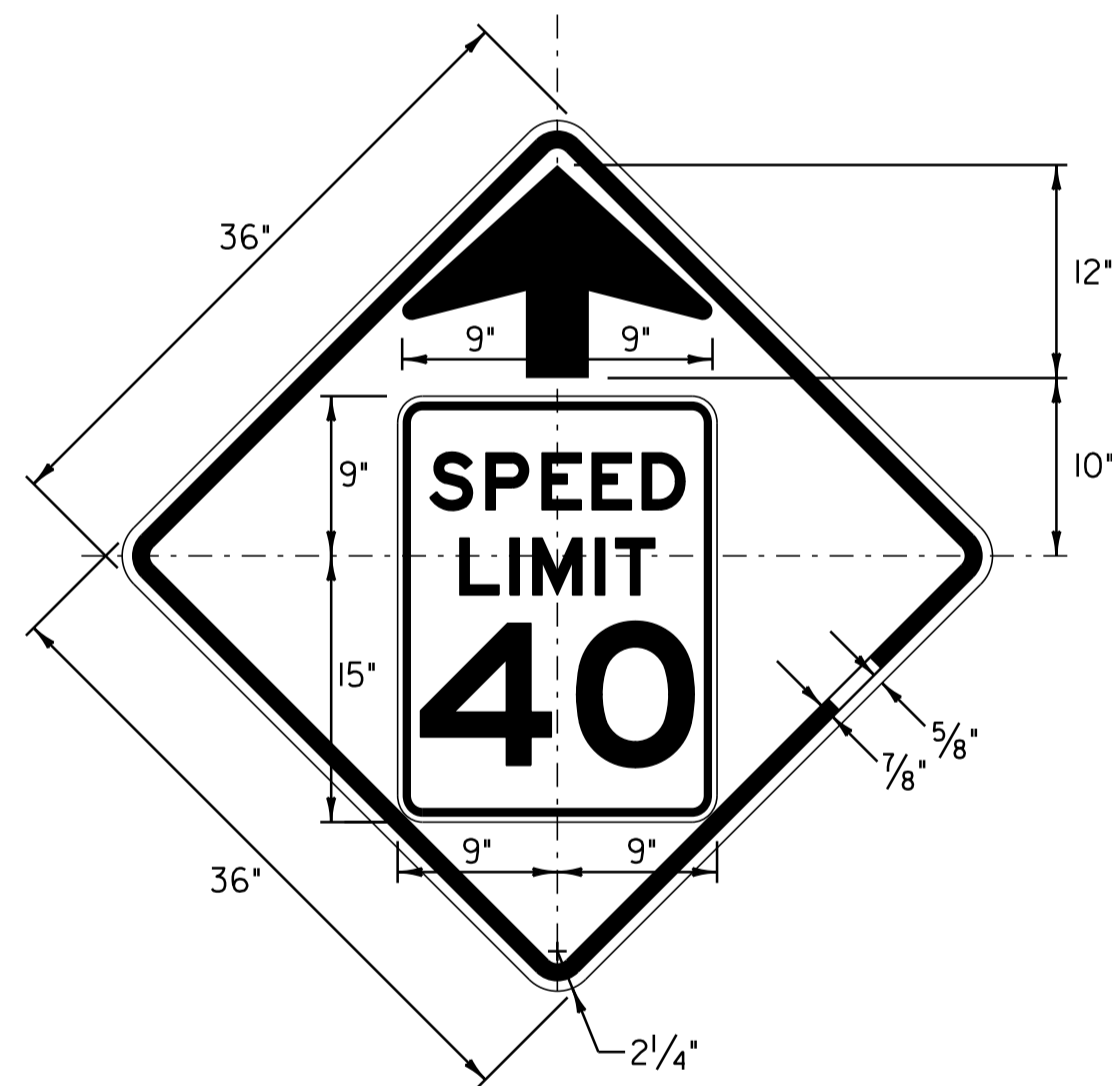
**VT ROUTE 101**

STATION	POSITION	DESCRIPTION
2+80	LT	SMH
2+86	LT	SMH
0+80	LT	SMH

**ADJUST ELEVATION OF VALVE BOX**  
(ITEM 629.20)

**VT ROUTE 101**

STATION	POSITION	DESCRIPTION
2+69	LT	WSO
2+74	LT	WSO
2+87	LT	SEWER CLEAN OUT
24+69	LT	WSO
16+08	LT	WSO

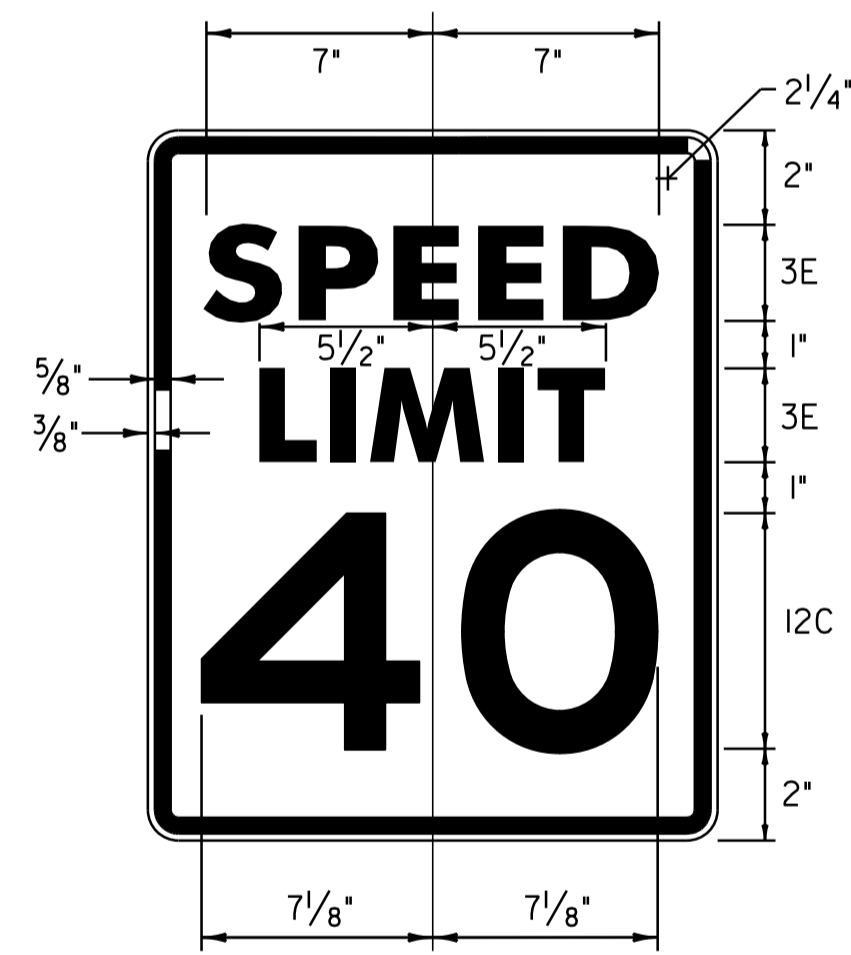


**W3-5**

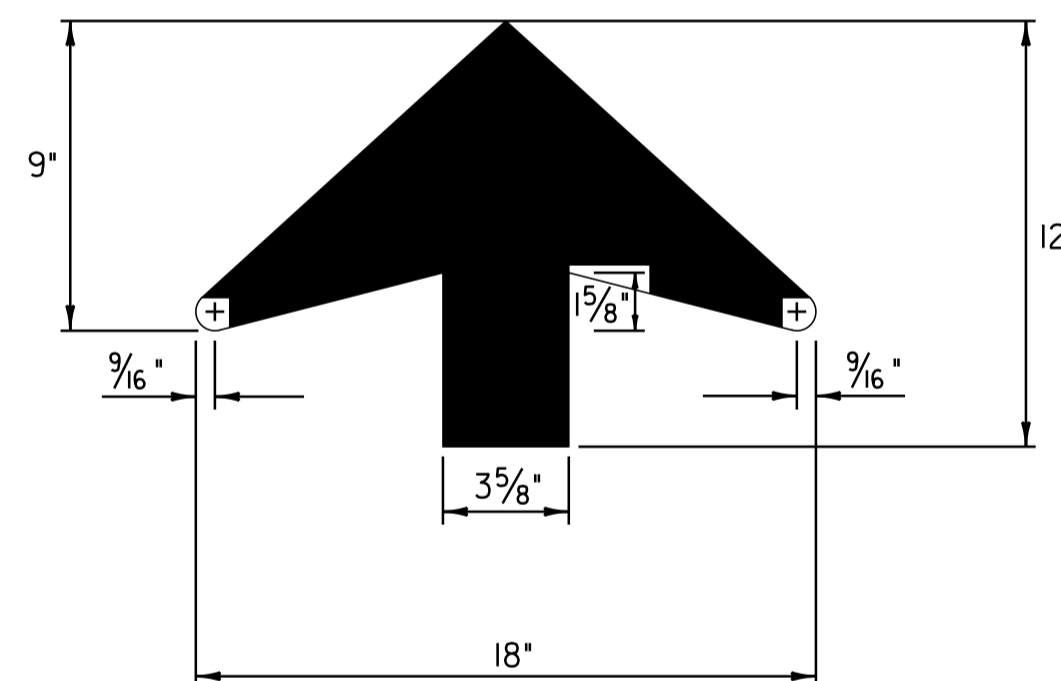
YELLOW BLACK BORDER & ARROW  
WITH ORANGE (RETRO REFLECTIVE) BACKGROUND  
SEE VAOT STANDARD E-150 FOR MATERIALS

**LOCATION**

VT ROUTE 101 STA. 41+69, LT.



BLACK BORDER & TEXT  
WITH YELLOW (RETRO REFLECTIVE) BACKGROUND  
WITH WHITE



**MISCELLANEOUS  
DETAIL  
SHEET**

NOT TO SCALE

PROJECT NAME:	TROY
PROJECT NUMBER:	STP-HES 2718(1)
FILE NAME:	p07c200.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	MCF
IPARM FILE:	p07c200md.i
PLOT DATE:	25-OCT-2011 13:59
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	10 OF 116

# QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES					TOTALS		DESCRIPTIONS			
ROADWAY	EMPLOYEE TRAINEESHIP	EROSION CONTROL	FULL C.E.	HES	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NO.	ROUND
550					550		CY	EARTH BORROW	203.30	EST.
1					1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-
1400					1400		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	19
50					50		CY	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.26	EST.
25					25		TON	SUBBASE, RAP	301.40	EST.
810					810		TON	AGGREGATE SHOULDERS	402.12	4
60					60		TON	AGGREGATE SHOULDERS, RAP	402.13	3
370					370		CWT	EMULSIFIED ASPHALT	404.65	3
1					1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-
								BEGIN OPTION AA		
10000					10000		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (0% RAP CONTENT)	490.30	182
10000					10000		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (0% < RAP CONTENT < 15.0%)	490.30	182
10000					10000		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (15.0% <= RAP CONTENT < 25.0%)	490.30	182
10000					10000		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (25.0% <= RAP CONTENT <= 50.0%)	490.30	182
								END OPTION AA		
1					1		LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-
1					1		LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	490.32	-
1					1		LU	SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.) (NON-LIMITED ACCESS HIGHWAY)	490.33	-
1					1		LU	LONGITUDINAL JOINT COMPACTION PAY ADJUSTMENT (N.A.B.I.)	490.34	-
1					1		EACH	CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES	604.40	EST.
4					4		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	EST.
4					4		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II	604.415	EST.
3					3		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS III	604.418	EST.
2					2		EACH	CHANGING ELEVATION OF SEWER MANHOLES	604.42	-
115					115		HR	POWER GRADER RENTAL	608.15	EST.
115					115		HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST.
70					70		HR	POWER BROOM RENTAL, TYPE I	608.30	EST.
115					115		HR	POWER BROOM RENTAL, TYPE II	608.31	EST.
115					115		HR	TRUCK RENTAL	608.37	EST.
115					115		HR	LOADER RENTAL, TYPE I	608.40	EST.
		1260			1260		CY	STONE FILL, TYPE I	613.10	10
1750					1750		LF	TREATED TIMBER CURB	616.35	15
50					50		EACH	YIELDING MARKER POSTS	619.17	3
4525					4525		LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	-
787.5					787.5		LF	STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS	621.205	-
22					22		EACH	MANUFACTURED TERMINAL SECTION, FLARED	621.50	-

DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS
		COLD PLANING, BITUMINOUS PAVEMENT
792	SY	MAINLINE APPROACHES
589	SY	SIDE ROADS
19	SY	ROUNDING
1400	SY	TOTAL
		SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
7199	TON	MAINLINE WEARING COURSE (TYPE IVS)
165	TON	SIDE ROADS WEARING COURSE (TYPE IVS)
2454	TON	LEVELING (TYPE IVS)
182	TON	ROUNDING
10000	TON	TOTAL
		STONE FILL, TYPE I
60	CY	SLOPE EROSION REPAIR
1190	CY	DITCH CLEANING
10	CY	ROUNDING
1260	CY	TOTAL
		GEOTEXTILE UNDER STONE FILL
232	SY	SLOPE EROSION REPAIR
5355	SY	DITCH CLEANING
13	SY	ROUNDING
5600	SY	TOTAL
		TEMPORARY EROSION MATTING
4853	SY	DITCH CLEANING
550	SY	M.T.S. FLARED CONSTRUCTION
2420	SY	SEED PROTECTION
77	SY	ROUNDING
7900	SY	TOTAL

PROJECT NAME:	TROY	PLOT DATE:	25-OCT-2011 13:59
PROJECT NUMBER:	STP HES 2718(I)	DRAWN BY:	STANTEC
FILE NAME:	p07c200.dgn	CHECKED BY:	JLL
PROJECT LEADER:	JLL	SHEET	II OF II6
DESIGNED BY:	MCF		
<b>IPARM FILE:</b>	<b>p07c200qs01.i</b>		

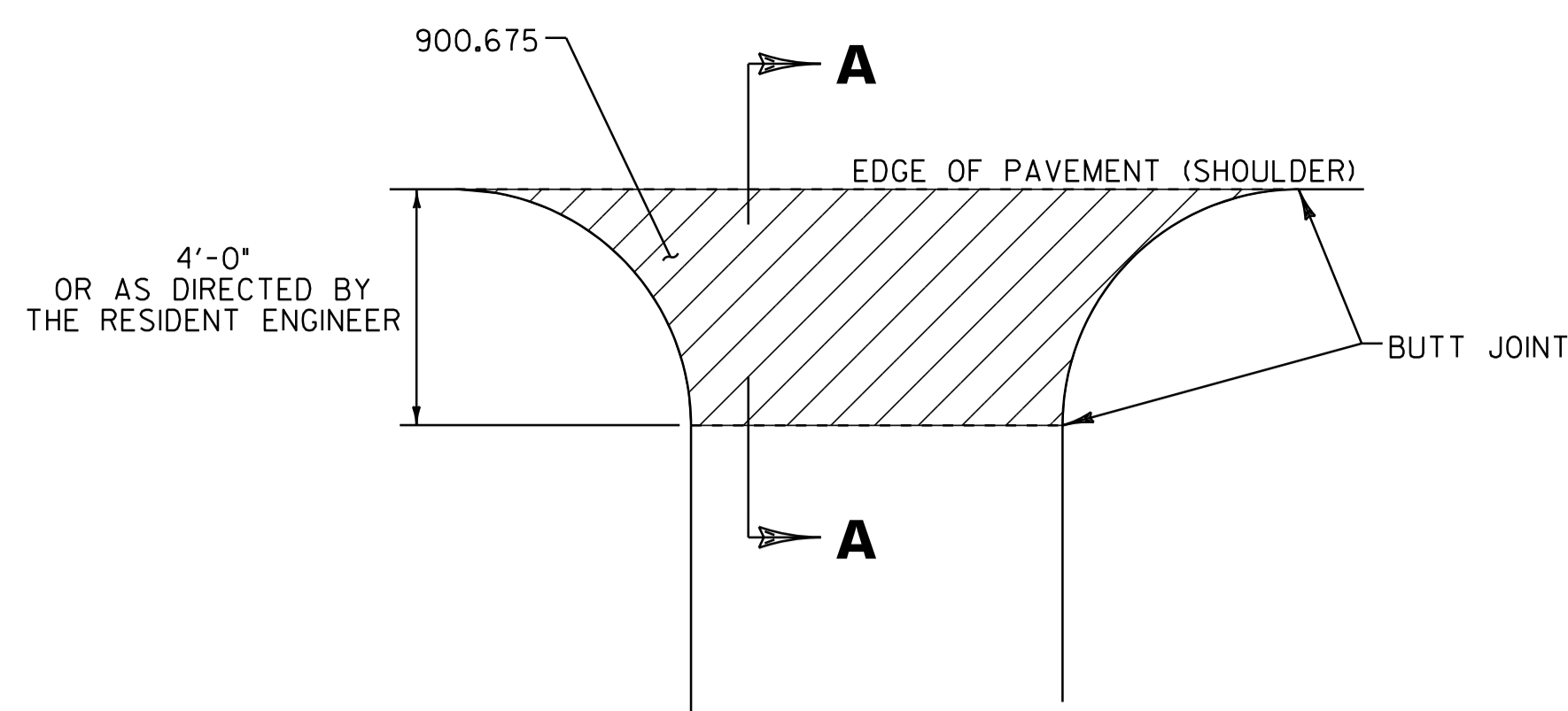


# ITEM DETAIL SUMMARY SHEET

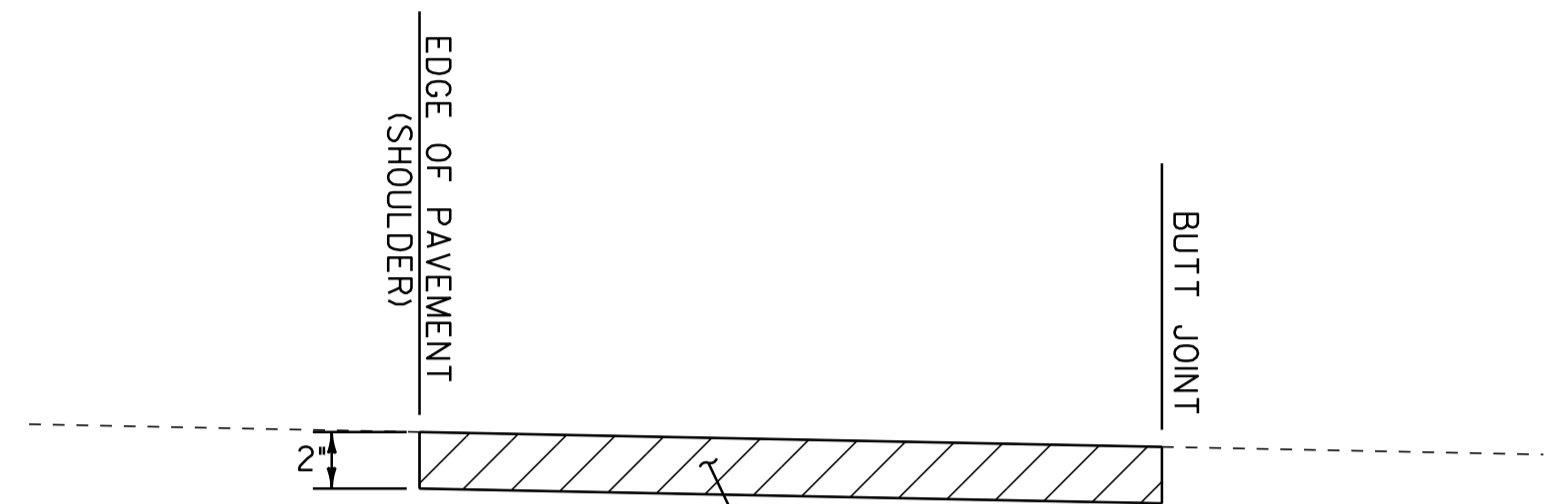
LOCATION			GUARDRAIL				MISCELLANEOUS												REMARKS	
BEGIN STATION	END STATION	POS.	621.20 S.B. GR. GALV. LF	621.205 S.B. G.R. GALV. W/8 FT POSTS LF	621.50 MTS. FLARED EA	621.80 REMOVAL & DISPOSAL OF GUARDRAIL LF	203.30 EARTH BORROW CY	301.26 SUBBASE CRUSHED GRAV. FINE GRADED CY	301.40 SUBBASE, RAP TON	604.40 CHAN ELEV OF DI, CB OR MH EA	604.412 REHAB DI, CB, OR MH, CLASS I EA	604.415 REHAB DI, CB, OR MH, CLASS II EA	604.418 REHAB DI, CB, OR MH, CLASS III EA	613.10 STONE FILL, TYPE I CY	616.35 TREATED TIMBER CURB LF	649.31 GEOTEXTILE UNDER STONE FILL SY	653.20 TEMPORARY EROSION MATTING SY	676.10 DELINEATOR WITH STEEL POST EACH		676.12 REMOVAL OF EXISTING DELINEATOR EACH
VT ROUTE 101 TROY																				
0+53	229+73	LT&RT						50	25	1	4	4	3							QUANTITIES FOR USE AS DIRECTED BY THE RESIDENT ENGINEER
34+67.5	41+05	LT	562.5		2	630	50										50	2	2	INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 34+67.5 TO 35+05, LT INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 40+67.5 TO 41+05, LT
36+92.5	41+05	RT	337.5		2	380	50								328		50	2	1	INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 36+92.5 TO 37+30, RT INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 40+67.5 TO 41+05, RT INSTALL TREATED TIMBER CURB STA. 37+49 TO 40+77, RT
43+35	46+97.5	RT	287.5		2	358	50										50	2		INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 43+35 TO 43+72.5, RT INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 46+60 TO 46+97.5, RT
54+35	64+60	RT	950		2	1021	50								950		50	2	1	INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 54+35 TO 54+72.5, RT INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 64+22.5 TO 64+60, RT INSTALL TREATED TIMBER CURB STA. 54+72.5 TO 64+22.5, RT
71+59	77+35	RT	500		2	570	50										50	2		INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 71+60 TO 71+97.5, RT INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 76+97.5 TO 77+35, RT
108+10	116+72.5	RT		787.5	2	858	50								457		50	2	2	INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 108+10 TO 108+47.5, RT INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 116+35 TO 116+72.5, RT INSTALL TREATED TIMBER CURB STA. 111+10 TO 115+67, RT
126+98	131+60.5	LT	387.5		2	229	50										50	2		INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 126+98 TO 127+35.5, LT INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 131+23 TO 131+60.5, LT
128+25	130+37.5	RT	137.5		2	123	50										50	2		INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 128+25 TO 128+62.5, RT INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 130+00 TO 130+37.5, RT
163+17.5	169+57	RT	562.5		2	629	50										50	2	1	INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 163+17.5 TO 163+55, RT INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 169+17.5 TO 169+55, RT
178+44	198+76	LT&RT																4		INSTALL NEW DELINEATOR WITH STEEL POST IN EXISTING ANCHORS AT STA. 178+44, RT; STA. 183+69, RT; STA. 193+74, LT; STA. 198+76, LT
220+95	225+48	RT	375		2	450	50										50	2	1	INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 220+95 TO 221+31.5, RT INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 225+07.5 TO 225+45, RT
221+10	226+10	LT	425		2	493	50										50	2	1	INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 221+10 TO 221+47.5, LT INSTALL NEW MANUFACTURED TERMINAL SECTION, FLARED FROM STA. 225+72.5 TO 226+10, LT
222+70	225+00	LT&RT												60		232				SLOPE EROSION REPAIR
SHEET SUBTOTALS:			4525	787.5	22	5741	550	50	25	1	4	4	3	60	1735	232	550	26	9	
ROUNDINGS:			-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	
TOTALS:			4525	787.5	22	5741	550	50	25	1	4	4	3	60	1750	232	550	26	9	

**ITEM  
DETAIL  
SUMMARY  
SHEET**

PROJECT NAME: TROY  
 PROJECT NUMBER: STP-HES 2718(1)  
 FILE NAME: p07c200.dgn PLOT DATE: 25-OCT-2011 13:59  
 PROJECT LEADER: JLL DRAWN BY: STANTEC  
 DESIGNED BY: MCF CHECKED BY: JLL  
**IPARM FILE: p07c200ids.i** SHEET 13 OF 116

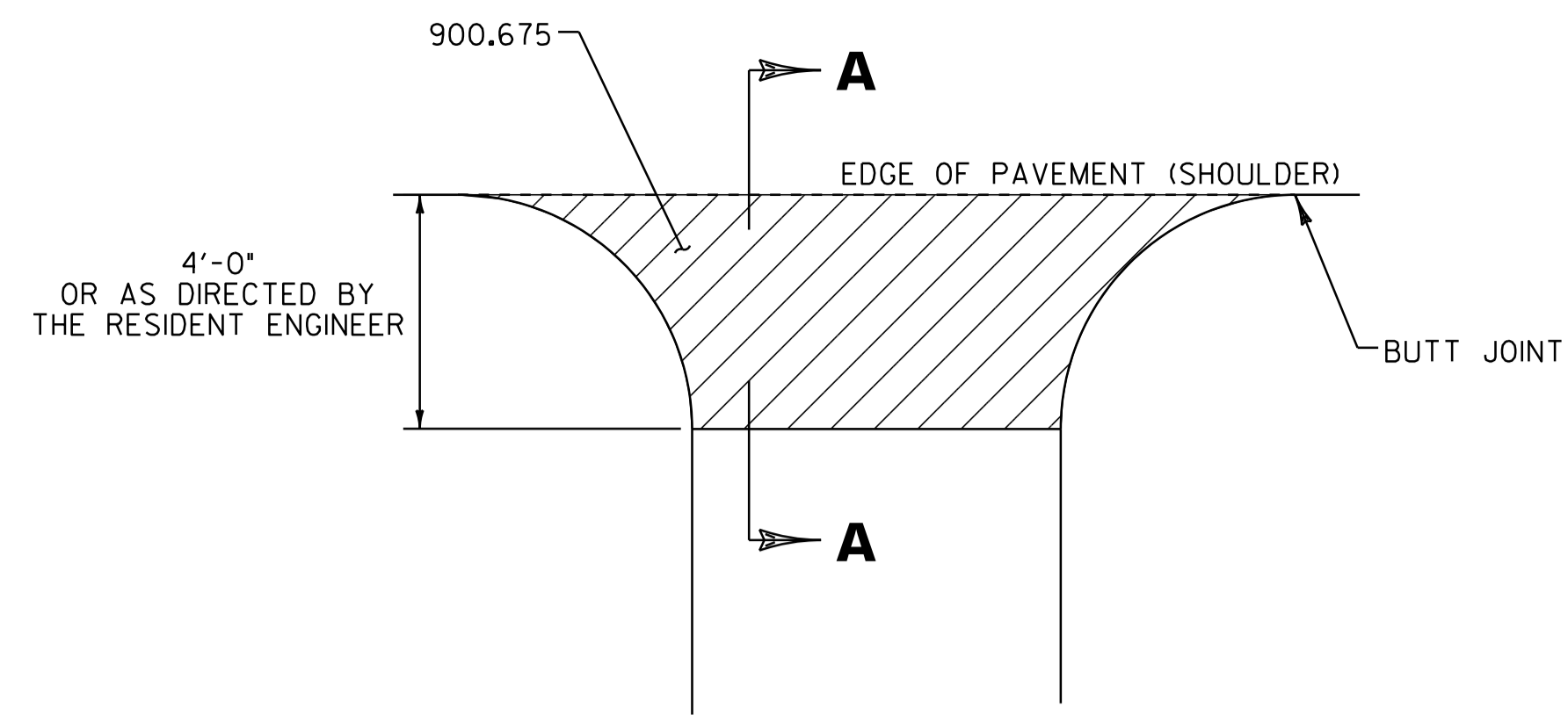


**PLAN**

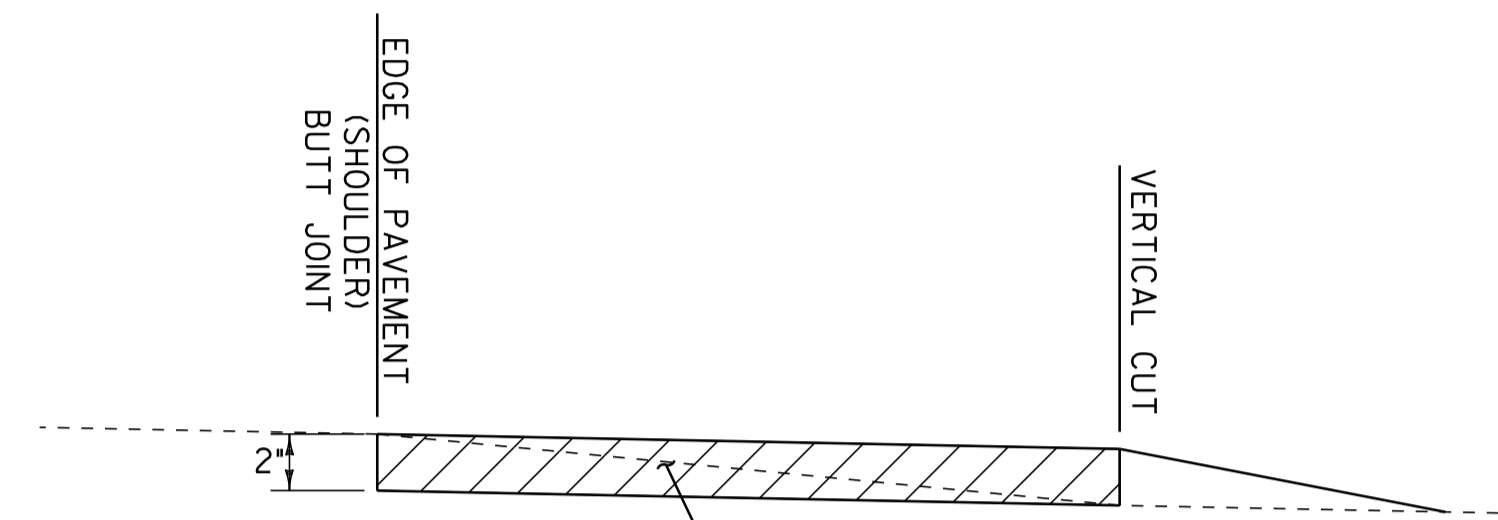


**SECTION**

**HANDWORK DETAILS FOR PAVED DRIVES**



**PLAN**



**SECTION A-A**

**HANDWORK DETAILS FOR GRAVEL DRIVES**

STATION	POSITION	QUANTITY (SY)
<b>STP-HES 2718(1)</b>		
<b>VT ROUTE 101</b>		
4+92	RT	24
4+93	LT	17
6+43	LT	6
6+46	RT	12
6+78	LT	17
7+61	LT	9
8+10	RT	15
8+53	LT	8
9+15	RT	6
10+79	RT	15
11+15	LT	14
12+21	LT	8
12+93	LT	8
13+66	RT	14
13+88	LT	14
15+35	LT	13
18+49	RT	12
19+83	RT	8
21+93	LT	14
24+22	LT	5
26+20	LT	15
27+60	LT	12
28+06	RT	11

STATION	POSITION	QUANTITY (SY)
29+11	LT	12
42+15	LT	13
45+39	LT	7
50+15	LT	8
51+72	LT	10
52+82	LT	11
61+24	LT	11
70+96	LT	10
71+29	RT	8
72+77	LT	15
74+03	LT	11
75+26	LT	10
76+32	LT	10
81+55	LT	15
82+56	RT	14
85+75	LT	11
87+54	LT	10
88+86	LT	16
91+11	LT	8
94+08	LT	14
95+18	LT	10
99+56	LT	12
101+80	LT	15
104+88	RT	12
105+55	LT	11

STATION	POSITION	QUANTITY (SY)
108+74	LT	16
117+04	LT	13
118+30	LT	10
118+49	RT	9
124+19	RT	12
126+43	LT	13
129+08	RT	10
132+85	RT	12
134+19	LT	12
137+14	LT	10
144+67	RT	12
144+80	LT	22
145+75	LT	20
146+19	RT	12
148+00	RT	22
150+83	LT	9
154+32	RT	12
154+43	LT	12
154+75	RT	9
156+26	LT	11
156+61	RT	20
169+74	RT	12
169+97	LT	8
175+97	LT	12
179+51	RT	5

STATION	POSITION	QUANTITY (SY)
184+58	LT	11
188+63	LT	28
190+00	LT	31
192+99	RT	18
194+02	LT	8
196+09	LT	9
197+04	RT	9
197+99	LT	9
200+90	RT	17
201+55	LT	18
209+58	RT	11
210+46	LT	12
211+71	RT	10
212+13	RT	12
214+57	LT	33
216+65	LT	32
218+23	RT	23
220+47	RT	17
220+89	LT	5
227+25	LT	10
SUBTOTAL		1199
ROUNDING		1
TOTAL		1200

**NOTES:**

- PAVING LIFT SHALL BE A MINIMUM OF 1 1/2" AND A MAXIMUM OF 2".
- THE COST OF PROVIDING AND PLACING SUBBASE MATERIAL, CLEANING EXISTING PAVED SURFACES, INCLUDING POWER EQUIPMENT, AND FOR FILLING JOINTS, CRACKS AND HOLES WILL NOT BE PAID DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES).
- EXCAVATION NEEDED TO ACHIEVE PROPER DRIVE SLOPES WILL NOT BE PAID DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES).

**LEGEND**



ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)

NOT TO SCALE

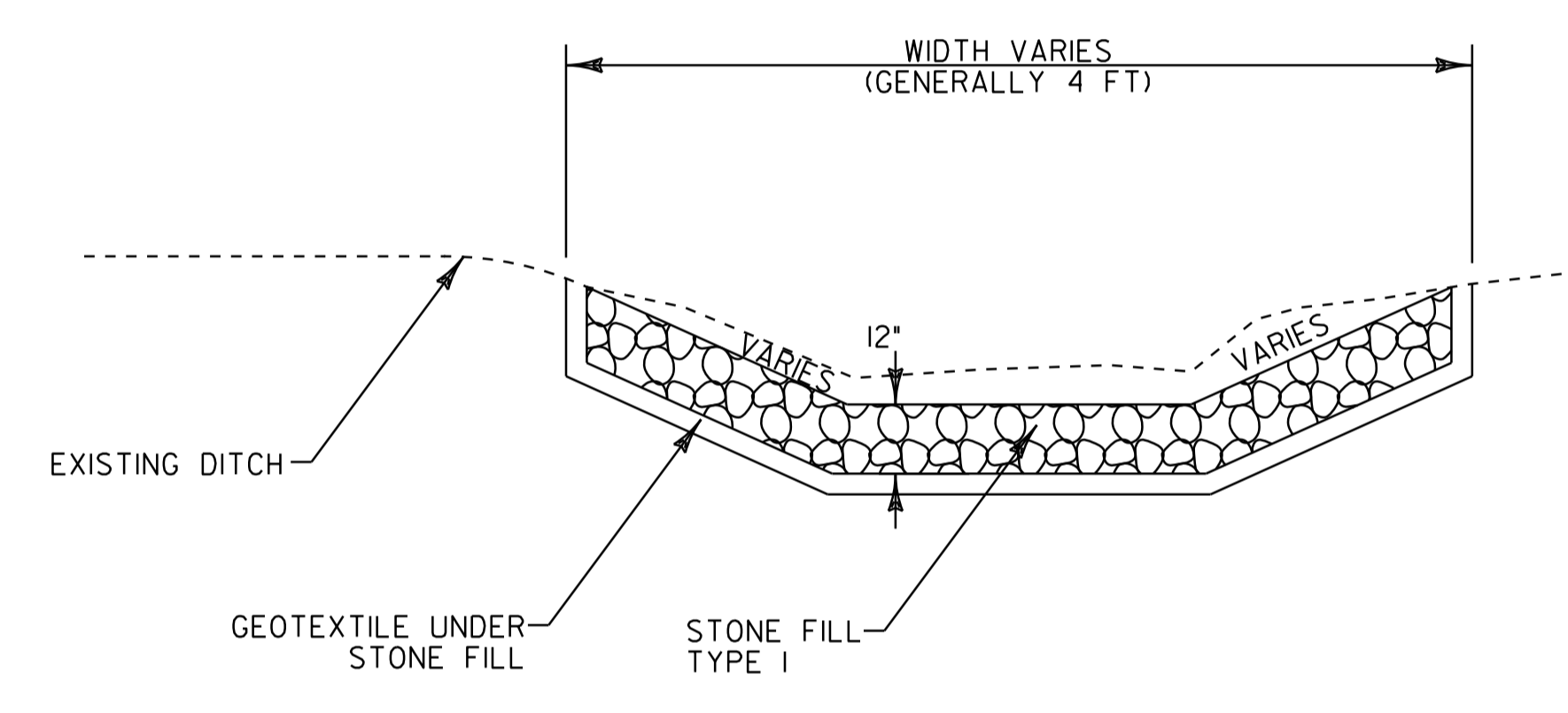


**DRIVE  
DETAIL  
SHEET**

PROJECT NAME:	TROY
PROJECT NUMBER:	STP-HES 2718(1)
FILE NAME:	p07c200.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	MCF
IPARM FILE:	p07c200ds.i
PLOT DATE:	25-OCT-2011 13:59
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	14 OF 116

LOCATION				FEET OF DITCHING			MISC. ITEMS			REMARKS
SITE	STATION	STATION	POS.	PERCENT GRADE			STONE FILL TYP. I	GEOT. UNDER STONE FILL	TEMP. EROS. MATT.	
				0-1	1-2.5	2.5-10				
				CY	SY	SY				
VT ROUTE 101 TROY										
1	8+45	10+56	RT		211	31	141			
2	10+56	17+95	RT		739	110	493			
3	14+78	21+12	LT		634	94	423			
4	21+12	23+76	LT	264				117		
5	40+66	42+24	LT		158	23	105			
6	42+24	47+52	LT	150	378	56	252	67		
7	47+52	52+80	LT	528						
8	52+80	57+55	LT		475			211		
9	63+36	73+92	LT		1056	156	704			
10	73+92	89+76	LT	1584				704		
11	76+03	81+84	RT	581				258		
12	89+76	108+77	LT	1901				845		
13	90+82	96+10	RT	528				235		
14	102+96	108+24	RT	528				235		
15	114+58	163+68	LT	1584	3854	571	2569	704		
16	119+33	123+02	RT	369				164		
17	127+78	132+00	RT		422	63	281			
18	168+96	179+52	LT	1056				469		
19	179+52	190+08	LT	1056						
20	190+08	200+64	LT	1056				469		
21	190+61	197+47	RT	686				305		
22	200+64	205+92	LT	528						
23	205+92	219+12	LT	1320						
24	222+82	225+46	RT		264	39	176			
25	223+87	227+04	LT		317	47	211			
26	227+04	228+62	LT	158				70		
PROJECT SUBTOTALS (EST.)				3432	10920	8033	1190	5355	4853	
ROUNDING				-	-	-	-	-	-	
PROJECT TOTALS				3432	10920	8033	1190	5355	4853	

LOCATION				FEET OF DITCHING			MISC. ITEMS			REMARKS
SITE	STATION	STATION	POS.	PERCENT GRADE			STONE FILL TYP. I	GEOT. UNDER STONE FILL	TEMP. EROS. MATT.	
				0-1	1-2.5	2.5-10				
				CY	SY	SY				



**DITCH DETAIL**

NOTES:

- PIPE INLET AND OUTLET AREAS, AND DITCH CLEANING THROUGH PROJECT, SHALL BE PERFORMED AT LOCATIONS INDICATED ON THIS SHEET AND AS DIRECTED BY THE VAOT RESIDENT ENGINEER. PAYMENT WILL BE UNDER THE APPLICABLE EQUIPMENT RENTAL ITEM(S).
- ESTIMATED QUANTITIES OF TEMPORARY EROSION MATTING, SEED, AND STONE FILL TYPE I HAVE BEEN INCLUDED. DITCHES WITH A GRADE LESS THAN 1 PERCENT SHALL BE SEEDED. TEMPORARY EROSION MATTING SHALL BE USED IN ALL DITCHES WITH A GRADE BETWEEN 1 AND 2.5 PERCENT. STONE FILL, TYPE I SHALL BE USED IN ALL DITCHES WITH A GRADE BETWEEN 2.5 AND 10 PERCENT OR AS DIRECTED BY THE VAOT RESIDENT ENGINEER.



**NOT TO SCALE**

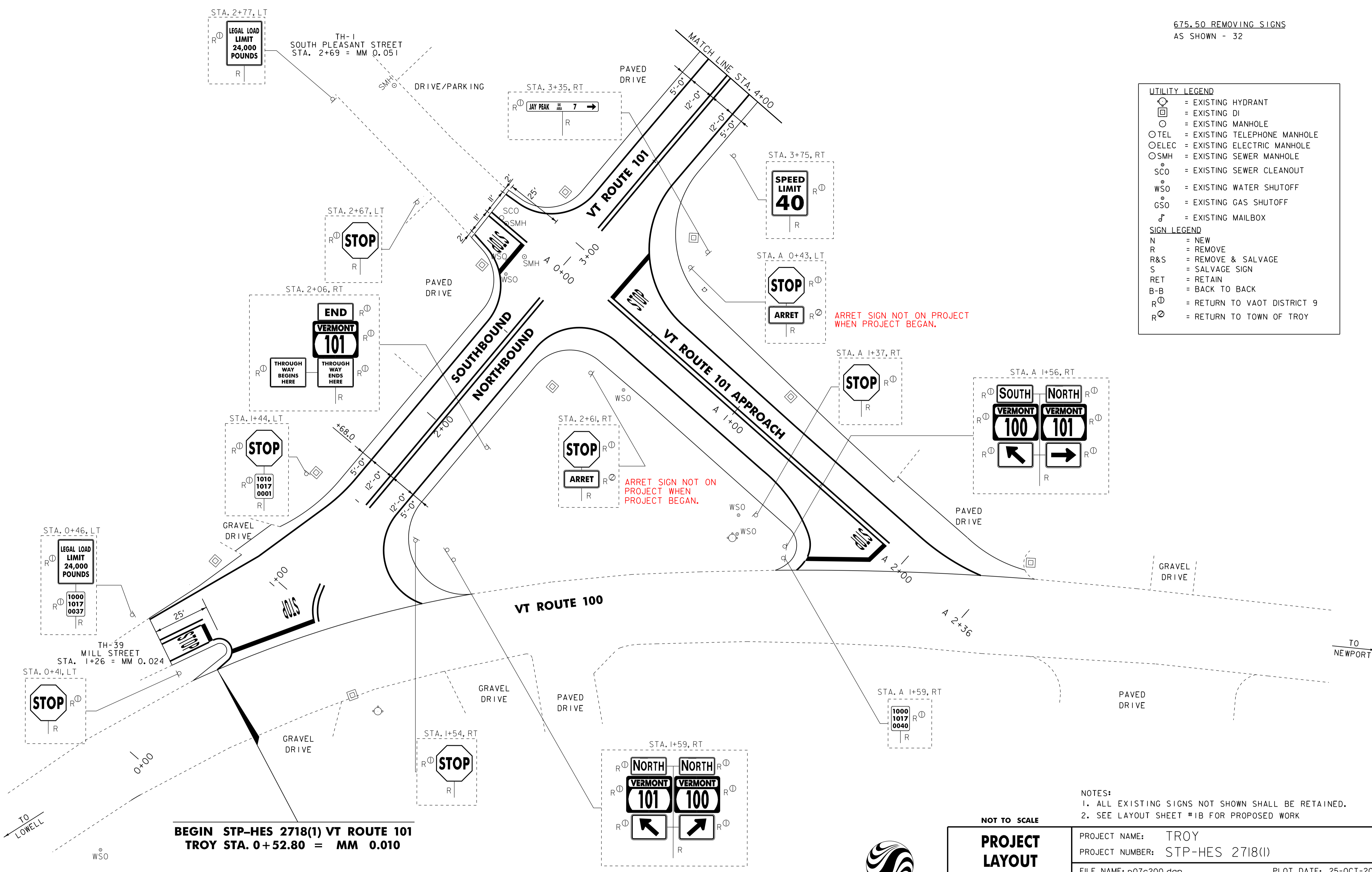
**DITCH CLEANING DETAIL SHEET**

PROJECT NAME: TROY  
PROJECT NUMBER: STP-HES 2718(1)

FILE NAME: p07c200.dgn  
PROJECT LEADER: JLL  
DESIGNED BY: MCF  
IPARM FILE: p07c200dcs.i

PLOT DATE: 25-OCT-2011 13:59  
DRAWN BY: STANTEC  
CHECKED BY: JLL  
SHEET 15 OF 116

UTILITY LEGEND	
	= EXISTING HYDRANT
	= EXISTING DI
	= EXISTING MANHOLE
	= EXISTING TELEPHONE MANHOLE
	= EXISTING ELECTRIC MANHOLE
	= EXISTING SEWER MANHOLE
	= EXISTING SEWER CLEANOUT
	= EXISTING WATER SHUTOFF
	= EXISTING GAS SHUTOFF
	= EXISTING MAILBOX
SIGN LEGEND	
N	= NEW
R	= REMOVE
R&S	= REMOVE & SALVAGE
S	= SALVAGE SIGN
RET	= RETAIN
B-B	= BACK TO BACK
R <sup>Ⓟ</sup>	= RETURN TO VAOT DISTRICT 9
R <sup>Ⓜ</sup>	= RETURN TO TOWN OF TROY



**BEGIN STP-HES 2718(1) VT ROUTE 101  
TROY STA. 0+52.80 = MM 0.010**

NOTES:  
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
2. SEE LAYOUT SHEET #1B FOR PROPOSED WORK



**NOT TO SCALE**  
**PROJECT LAYOUT SHEET #1A**  
**EXISTING SIGNS**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 13:59
PROJECT NUMBER: STP-HES 2718(1)	DRAWN BY: STANTEC
FILE NAME: p07c200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 16 OF 116
DESIGNED BY: MCF	
IPARM FILE: p07c200i01a.i	

604.412, 604.415, OR 604.418 REHAB. DI'S, CB'S OR MH'S, CLASS I, II OR III  
 VT RTE 101 APPROACH STA. A1+14, LT 2+40 LT

604.42 CHANGING ELEVATION OF SEWER MANHOLES  
 STA. 2+80, LT  
 STA. 2+86, LT  
 STA. 0+80 LT  
 629.20 ADJUST ELEVATION OF VALVE BOX  
 STA. 2+69, LT  
 STA. 2+74, LT  
 STA. 2+87, LT

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 VT RTE 101 APP. STA. A 0+13 TO A 2+30, SOLID LT & RT  
 STA. 0+50, DOUBLE SOLID LT (MILL ST)  
 STA. 0+53 TO 4+00, SOLID LT & RT  
 STA. 2+69, DOUBLE SOLID LT (SO. PLEASANT ST)

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC  
 VT RTE 101 APP. STA. A 0+26 LT  
 VT RTE 101 APP. STA. A 1+67 TO A 1+89, RT  
 STA. 0+62 TO 0+96, RT  
 STA. 0+62, LT (MILL ST)  
 STA. 2+69, LT (S. PLEASANT ST)

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 VT RTE 101 APP. STA. A 0+25 TO A 1+90, SOLID LT & RT  
 STA. 0+95 TO 4+00, DOUBLE SOLID RT  
 (ALL LINES WILL INCLUDE C BREAKS FOR SIDE ROADS)  
 STA. 0+50, DOUBLE SOLID LT (MILL ST)  
 STA. 2+69, DOUBLE SOLID LT (S. PLEASANT ST)

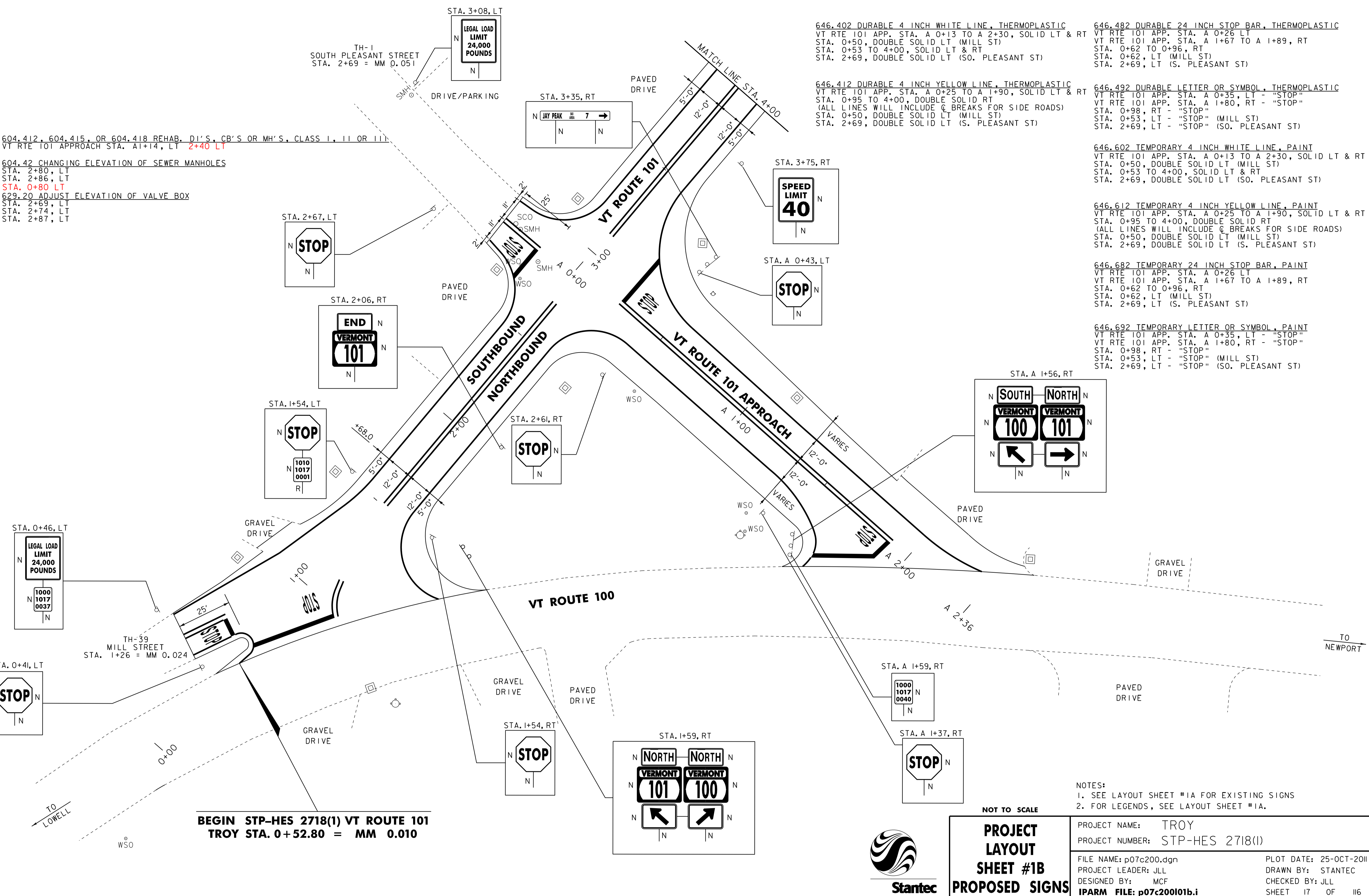
646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC  
 VT RTE 101 APP. STA. A 0+35, LT - "STOP"  
 VT RTE 101 APP. STA. A 1+80, RT - "STOP"  
 STA. 0+98, RT - "STOP"  
 STA. 0+53, LT - "STOP" (MILL ST)  
 STA. 2+69, LT - "STOP" (SO. PLEASANT ST)

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 VT RTE 101 APP. STA. A 0+13 TO A 2+30, SOLID LT & RT  
 STA. 0+50, DOUBLE SOLID LT (MILL ST)  
 STA. 0+53 TO 4+00, SOLID LT & RT  
 STA. 2+69, DOUBLE SOLID LT (SO. PLEASANT ST)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 VT RTE 101 APP. STA. A 0+25 TO A 1+90, SOLID LT & RT  
 STA. 0+95 TO 4+00, DOUBLE SOLID RT  
 (ALL LINES WILL INCLUDE C BREAKS FOR SIDE ROADS)  
 STA. 0+50, DOUBLE SOLID LT (MILL ST)  
 STA. 2+69, DOUBLE SOLID LT (S. PLEASANT ST)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT  
 VT RTE 101 APP. STA. A 0+26 LT  
 VT RTE 101 APP. STA. A 1+67 TO A 1+89, RT  
 STA. 0+62 TO 0+96, RT  
 STA. 0+62, LT (MILL ST)  
 STA. 2+69, LT (S. PLEASANT ST)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT  
 VT RTE 101 APP. STA. A 0+35, LT - "STOP"  
 VT RTE 101 APP. STA. A 1+80, RT - "STOP"  
 STA. 0+98, RT - "STOP"  
 STA. 0+53, LT - "STOP" (MILL ST)  
 STA. 2+69, LT - "STOP" (SO. PLEASANT ST)



**BEGIN STP-HES 2718(1) VT ROUTE 101  
 TROY STA. 0+52.80 = MM 0.010**

NOTES:  
 1. SEE LAYOUT SHEET #1A FOR EXISTING SIGNS  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1A.



**PROJECT LAYOUT SHEET #1B  
 PROPOSED SIGNS**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 13:59
PROJECT NUMBER: STP-HES 2718(1)	DRAWN BY: STANTEC
FILE NAME: p07c200.dgn	CHECKED BY: JLL
DESIGNED BY: MCF	SHEET 17 OF 116
IPARM FILE: p07c200i01b.i	

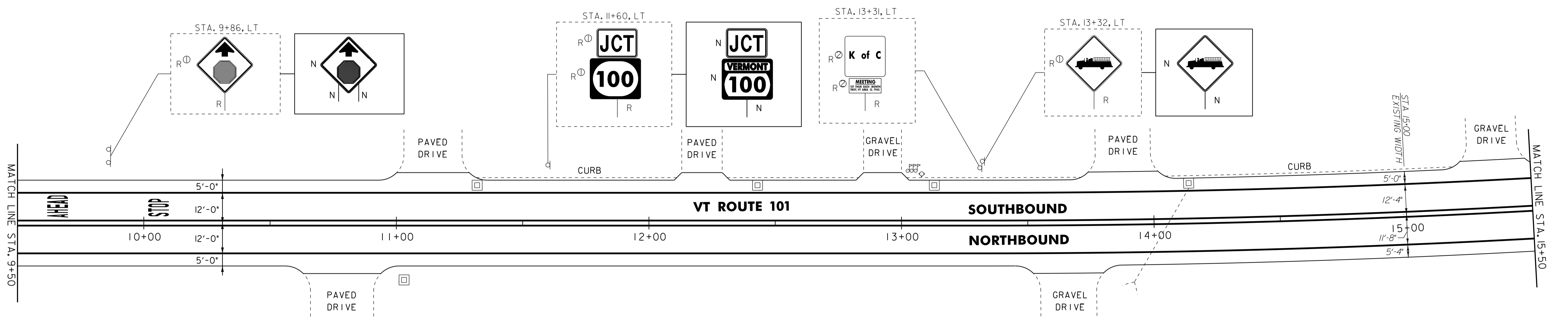
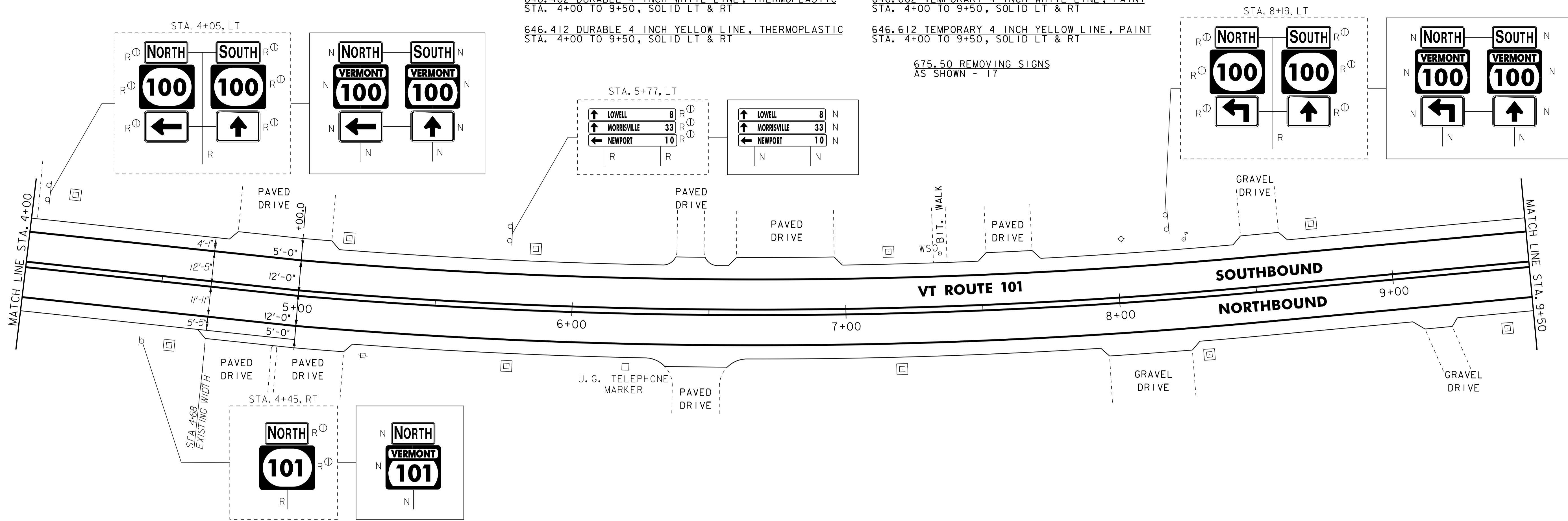
646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
STA. 4+00 TO 9+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
STA. 4+00 TO 9+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
STA. 4+00 TO 9+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
STA. 4+00 TO 9+50, SOLID LT & RT

675.50 REMOVING SIGNS  
AS SHOWN - 17



604.412, 604.415, OR 604.418 REHAB.  
DI'S, CB'S OR MH'S, CLASS I, II OR III  
STA. 11+32, LT  
STA. 12+43, LT  
STA. 13+13, LT  
STA. 14+14, LT

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
STA. 9+50 TO 15+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
STA. 9+50 TO 15+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
STA. 9+50 TO 15+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
STA. 9+50 TO 15+50, SOLID LT & RT

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC  
STA. 9+66, LT - "AHEAD"  
STA. 10+06, LT - "STOP"

646.692 TEMPORARY LETTER OR SYMBOL, PAINT  
STA. 9+66, LT - "AHEAD"  
STA. 10+06, LT - "STOP"

675.50 REMOVING SIGNS  
AS SHOWN - 6

NOTES:  
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
2. FOR LEGENDS, SEE LAYOUT SHEET #1A.



NOT TO SCALE

**PROJECT LAYOUT SHEET #2**

PROJECT NAME: TROY  
PROJECT NUMBER: STP-HES 2718(1)

FILE NAME: p07c200.dgn  
PROJECT LEADER: JLL  
DESIGNED BY: MCF  
IPARM FILE: p07c200i02.i

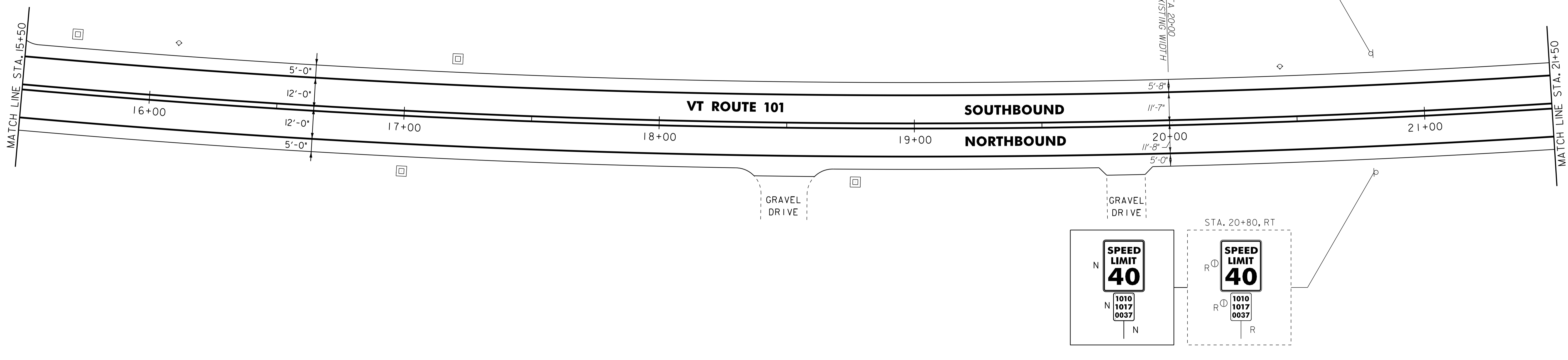
PLOT DATE: 25-OCT-2011 13:59  
DRAWN BY: STANTEC  
CHECKED BY: JLL  
SHEET 18 OF 116

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 15+50 TO 21+50, SOLID LT & RT  
 646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 15+50 TO 21+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 15+50 TO 21+50, SOLID LT & RT  
 646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 15+50 TO 21+50, SOLID LT & RT

675.50 REMOVING SIGNS  
 AS SHOWN - 3

629.20 ADJUST ELEVATION OF VALVE BOX  
 STA. 16+08 LT



629.20 ADJUST ELEVATION OF VALVE BOX  
 STA. 24+69, LT

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC  
 STA. 24+95, RT (TH-45)

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 21+50 TO 27+50, SOLID LT & RT

646.682 TEMPORARY 24 INCH STOP BAR, PAINT  
 STA. 24+95, RT (TH-45)

675.50 REMOVING SIGNS  
 AS SHOWN - 3

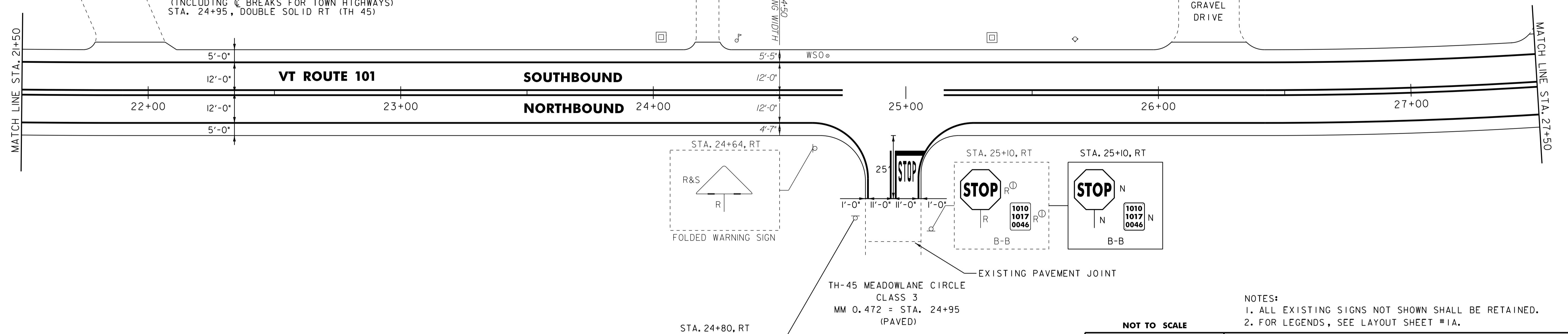
646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 21+50 TO 27+50, SOLID LT & RT  
 STA. 24+95, DOUBLE SOLID RT (TH 45)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC  
 STA. 24+95, RT - "STOP"

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 21+50 TO 27+50, SOLID LT & RT  
 (INCLUDING C BREAKS FOR TOWN HIGHWAYS)  
 STA. 24+95, DOUBLE SOLID RT (TH 45)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT  
 STA. 24+95, RT - "STOP"

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 21+50 TO 27+50, SOLID LT & RT  
 (INCLUDING C BREAKS FOR TOWN HIGHWAYS)  
 STA. 24+95, DOUBLE SOLID RT (TH 45)



NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1A.

NOT TO SCALE

**PROJECT LAYOUT SHEET #3**



PROJECT NAME:	TROY
PROJECT NUMBER:	STP-HES 2718(1)
FILE NAME:	p07c200.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	MCF
IPARM FILE:	p07c200i03.i
PLOT DATE:	25-OCT-2011 13:59
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	19 OF 116

604.40 CHANGING ELEVATION OF WMH  
~~604.412, 604.415, OR 604.418 REHAB.~~  
 DI'S, CB'S OR MH'S, CLASS 1, II OR III  
 STA. 29+50, RT

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 27+50 TO 33+50, SOLID LT & RT

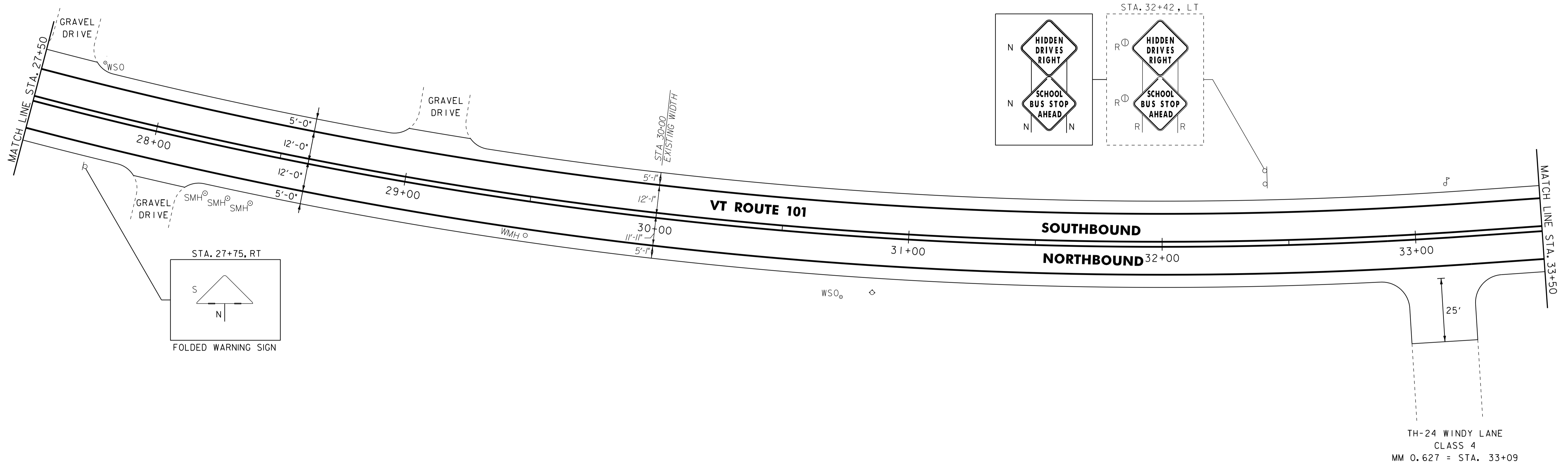
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 27+50 TO 33+50, SOLID LT & RT

675.50 REMOVING SIGNS  
 AS SHOWN - 2

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 27+50 TO 33+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 27+50 TO 33+50, SOLID LT & RT

675.60 ERECTING SALVAGED SIGNS  
 AS SHOWN - 1



- NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1A.

NOT TO SCALE



**PROJECT  
 LAYOUT  
 SHEET #4**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 13:59
PROJECT NUMBER: STP-HES 2718(1)	DRAWN BY: STANTEC
FILE NAME: p07c200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 20 OF 116
DESIGNED BY: MCF	
IPARM FILE: p07c200i04.i	

604.40 CHANGING ELEVATION OF DI  
 604.412, 604.415, OR 604.418 REHAB.  
 DI'S, CB'S OR MH'S, CLASS I, II OR III  
 STA. 37+49, RT

616.35 TREATED TIMBER CURB  
 STA. 37+49 TO 39+50, RT  
 44

621.20 STEEL BEAM GUARDRAIL, GALVANIZED  
 STA. 35+05 TO 39+50, LT  
 STA. 37+30 TO 39+50, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED  
 STA. 34+67.5 TO 35+05, LT  
 STA. 36+92.5 TO 37+30, RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL  
 STA. 34+75 TO 39+50, LT  
 STA. 36+97 TO 39+50, RT  
 55

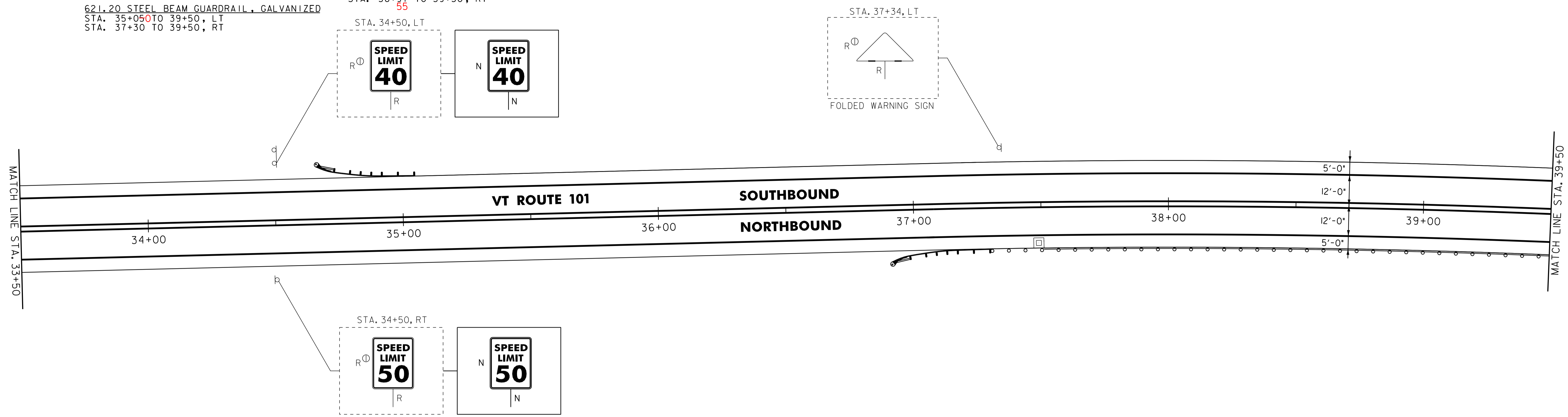
646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 33+50 TO 39+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 33+50 TO 39+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 33+50 TO 39+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 33+50 TO 39+50, SOLID LT & RT

675.50 REMOVING SIGNS  
 AS SHOWN - 3



616.35 TREATED TIMBER CURB  
 STA. 39+50 TO 40+77, RT  
 56.5

621.20 STEEL BEAM GUARDRAIL, GALVANIZED  
 STA. 39+50 TO 40+67.5, LT 40+50  
 STA. 39+50 TO 40+67.5, RT 40+55  
 STA. 43+72.5 TO 45+50, RT  
 78

621.50 MANUFACTURED TERMINAL SECTION, FLARED  
 STA. 40+67.5 TO 41+05, LT 40+87.5  
 STA. 40+67.5 TO 41+05, RT 40+92.5  
 STA. 43+35 TO 43+72.5, RT  
 40.5 78

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL  
 STA. 39+50 TO 40+77, RT 92.5  
 STA. 39+50 TO 41+05, LT 40+87.5  
 STA. 43+35 TO 45+50, RT  
 40

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 39+50 TO 45+50, SOLID LT & RT

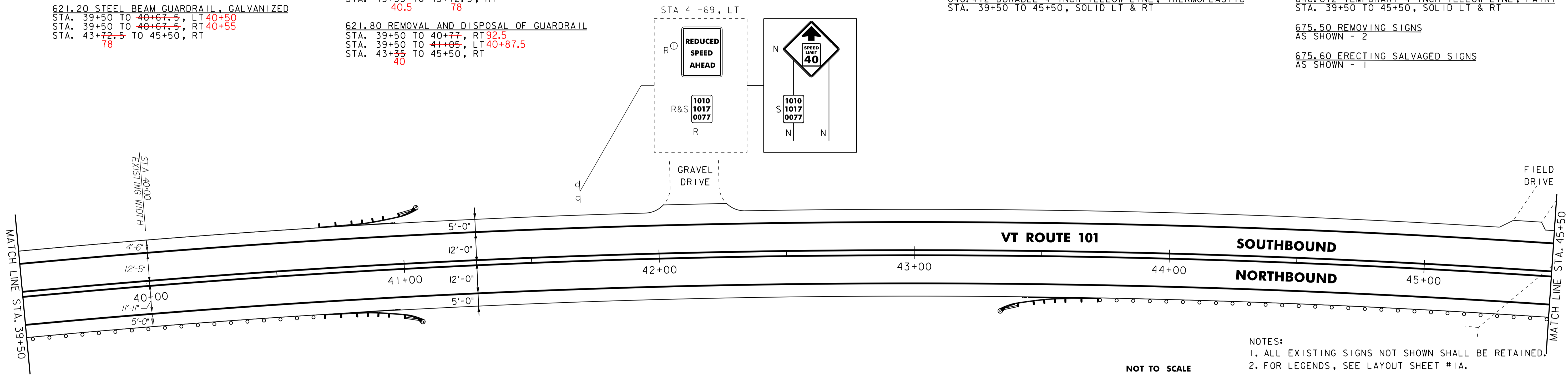
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 39+50 TO 45+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 39+50 TO 45+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 39+50 TO 45+50, SOLID LT & RT

675.50 REMOVING SIGNS  
 AS SHOWN - 2

675.60 ERECTING SALVAGED SIGNS  
 AS SHOWN - 1



NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1A.



NOT TO SCALE

**PROJECT LAYOUT SHEET #5**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 13:59
PROJECT NUMBER: STP-HES 2718(1)	DRAWN BY: STANTEC
FILE NAME: p07c200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 21 OF 116
DESIGNED BY: MCF	
IPARM FILE: p07c200i05.i	

621.20 STEEL BEAM GUARDRAIL, GALVANIZED

STA. 45+50 TO 46+60, RT

46+53

621.50 MANUFACTURED TERMINAL SECTION, FLARED

STA. 46+60 TO 46+97.5, RT

46+52.5 46+90

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL

STA. 45+50 TO 46+90, RT

90

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC

STA. 45+50 TO 51+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC

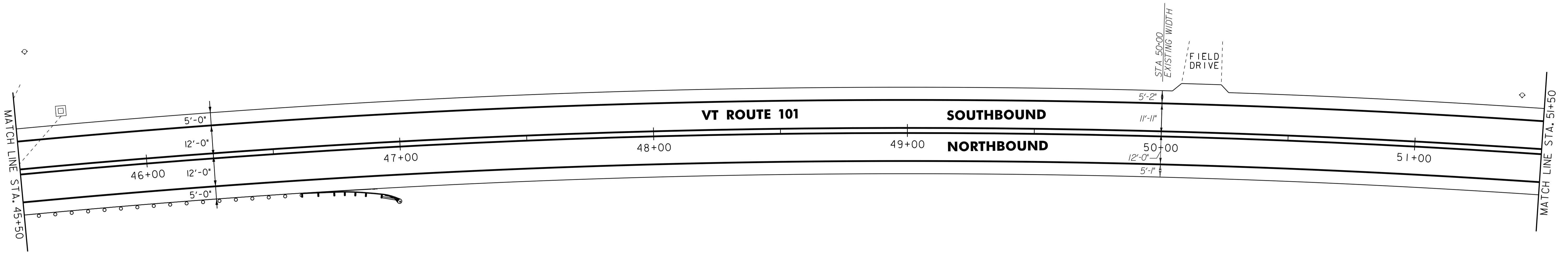
STA. 45+50 TO 51+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT

STA. 45+50 TO 51+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT

STA. 45+50 TO 51+50, SOLID LT & RT



616.35 TREATED TIMBER CURB

STA. 54+73 TO 57+50, RT

75

621.20 STEEL BEAM GUARDRAIL, GALVANIZED

STA. 54+72.5 TO 57+50, RT

65.5

621.50 MANUFACTURED TERMINAL SECTION, FLARED

STA. 54+35 TO 54+72.5, RT

28 65.5

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL

STA. 54+36 TO 57+50, RT

28

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC

STA. 51+50 TO 57+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC

STA. 51+50 TO 52+27, SOLID LT & RT

STA. 52+27 TO 57+50, SOLID LT, DASHED RT

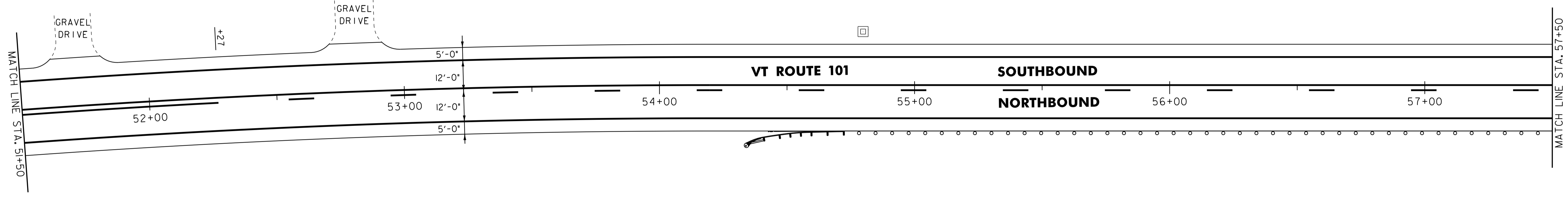
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT

STA. 51+50 TO 57+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT

STA. 51+50 TO 52+27, SOLID LT & RT

STA. 52+27 TO 57+50, SOLID LT, DASHED RT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
  2. FOR LEGENDS, SEE LAYOUT SHEET #1A.



NOT TO SCALE

**PROJECT LAYOUT SHEET #6**

PROJECT NAME: TROY  
PROJECT NUMBER: STP-HES 2718(1)

FILE NAME: p07c200.dgn	PLOT DATE: 25-OCT-2011 13:59
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: MCF	CHECKED BY: JLL
<b>IPARM FILE: p07c200i06.i</b>	SHEET 22 OF 116

604.412, 604.415, OR 604.418 REHAB.  
 D1'S, CB'S OR MH'S, CLASS I, II OR III  
 STA. 58+51, RT  
 STA. 61+32, RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL  
 STA. 57+50 TO 63+50, RT

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 57+50 TO 63+50, SOLID LT & RT

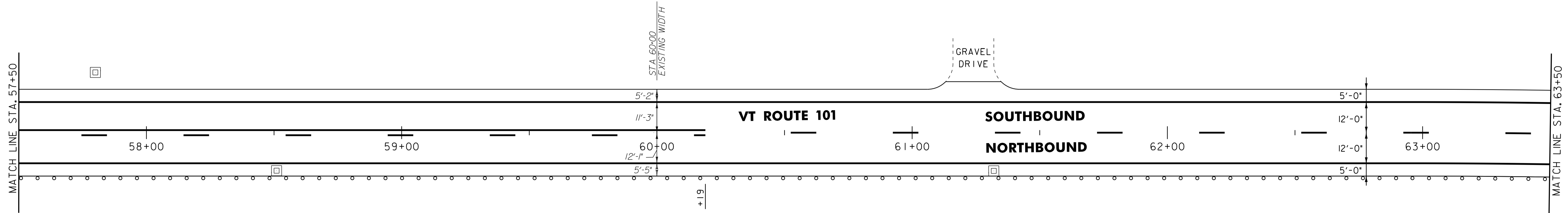
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 57+50 TO 63+50, SOLID LT & RT

616.35 TREATED TIMBER CURB  
 STA. 57+50 TO 63+50, RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 57+50 TO 60+19, SOLID LT, DASHED RT  
 STA. 60+19 TO 63+50, DASHED C

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 57+50 TO 60+19, SOLID LT, DASHED RT  
 STA. 60+19 TO 63+50, DASHED C

621.20 STEEL BEAM GUARDRAIL, GALVANIZED  
 STA. 57+50 TO 63+50, RT



604.412, 604.415, OR 604.418 REHAB.  
 D1'S, CB'S OR MH'S, CLASS I, II OR III  
 STA. 63+84, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED  
 STA. 64+22.5 TO 64+60, RT

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 63+50 TO 69+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 63+50 TO 69+50, SOLID LT & RT

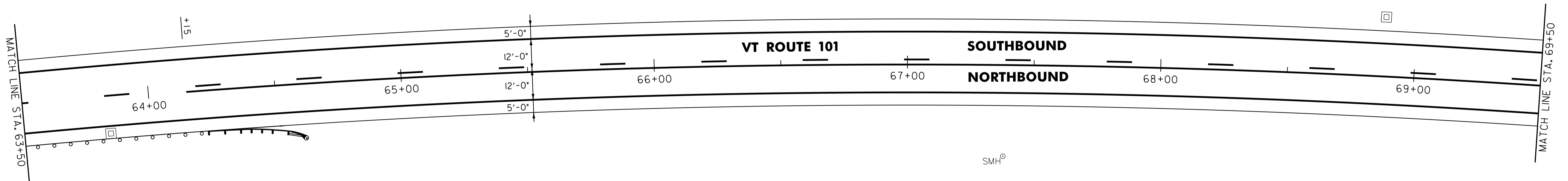
616.35 TREATED TIMBER CURB  
 STA. 63+50 TO 64+23, RT  
 STA. 63+87.5

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL  
 STA. 63+50 TO 64+57, RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 63+50 TO 64+15, DASHED C  
 STA. 64+15 TO 69+50, DASHED LT, SOLID RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 63+50 TO 64+15, DASHED C  
 STA. 64+15 TO 69+50, DASHED LT, SOLID RT

621.20 STEEL BEAM GUARDRAIL, GALVANIZED  
 STA. 63+50 TO 64+22.5, RT



- NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1A.



NOT TO SCALE

**PROJECT LAYOUT SHEET #7**

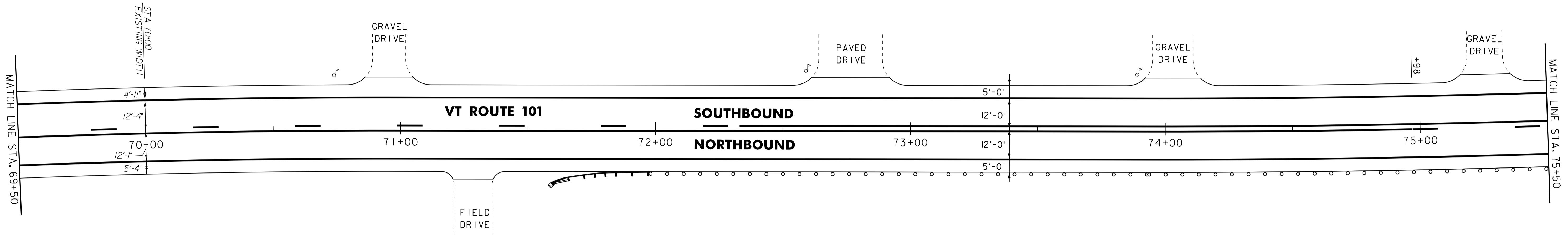
PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 14:00
PROJECT NUMBER: STP-HES 2718(1)	DRAWN BY: STANTEC
FILE NAME: p07c200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 23 OF 116
DESIGNED BY: MCF	
IPARM FILE: p07c200i07.i	

621.20 STEEL BEAM GUARDRAIL, GALVANIZED  
 STA. 71+97.5 TO 75+50, RT  
 96.5  
 621.50 MANUFACTURED TERMINAL SECTION, FLARED  
 STA. 71+60 TO 71+97.5  
 59 96.5

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL  
 STA. 71+59 TO 75+50, RT

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 69+50 TO 75+50, SOLID LT & RT  
 646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 69+50 TO 72+34, DASHED LT, SOLID RT  
 STA. 72+33 TO 74+98, SOLID LT & RT  
 STA. 74+98 TO 75+50, SOLID LT, DASHED RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 69+50 TO 75+50, SOLID LT & RT  
 646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 69+50 TO 72+34, DASHED LT, SOLID RT  
 STA. 72+33 TO 74+98, SOLID LT & RT  
 STA. 74+98 TO 75+50, SOLID LT, DASHED RT

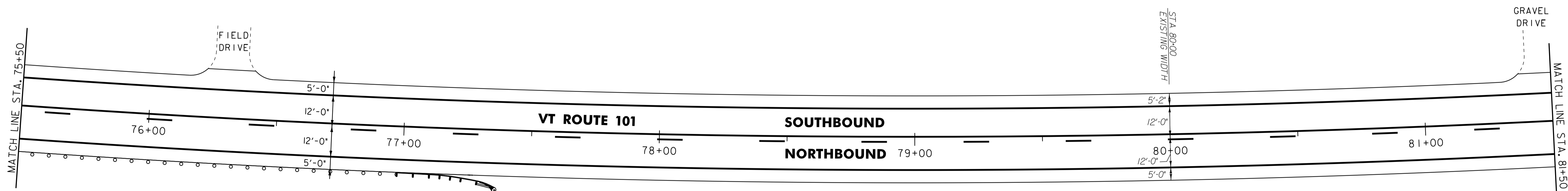


621.20 STEEL BEAM GUARDRAIL, GALVANIZED  
 STA. 75+50 TO 76+97.5, RT  
 84  
 621.50 MANUFACTURED TERMINAL SECTION, FLARED  
 STA. 76+97.5 TO 77+35, RT  
 84 21

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL  
 STA. 75+50 TO 77+29, RT  
 12.5

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 75+50 TO 81+50, SOLID LT & RT  
 646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 75+50 TO 81+50, SOLID LT, DASHED RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 75+50 TO 81+50, SOLID LT & RT  
 646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 75+50 TO 81+50, SOLID LT, DASHED RT



NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1A.



NOT TO SCALE

**PROJECT LAYOUT SHEET #8**

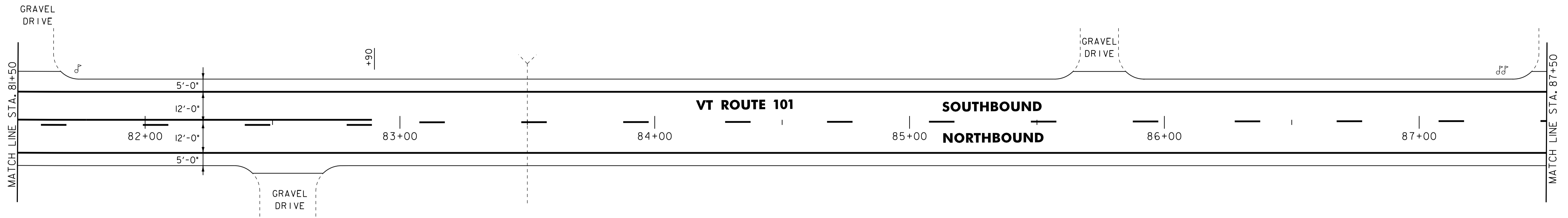
PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 4:00
PROJECT NUMBER: STP-HES 2718(1)	DRAWN BY: STANTEC
FILE NAME: p07c200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 24 OF 116
DESIGNED BY: MCF	
IPARM FILE: p07c200i08.i	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 81+50 TO 87+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 81+50 TO 87+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 81+50 TO 82+90, SOLID LT, DASHED RT  
 STA. 82+90 TO 87+50, DASHED C

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 81+50 TO 82+90, SOLID LT, DASHED RT  
 STA. 82+90 TO 87+50, DASHED C

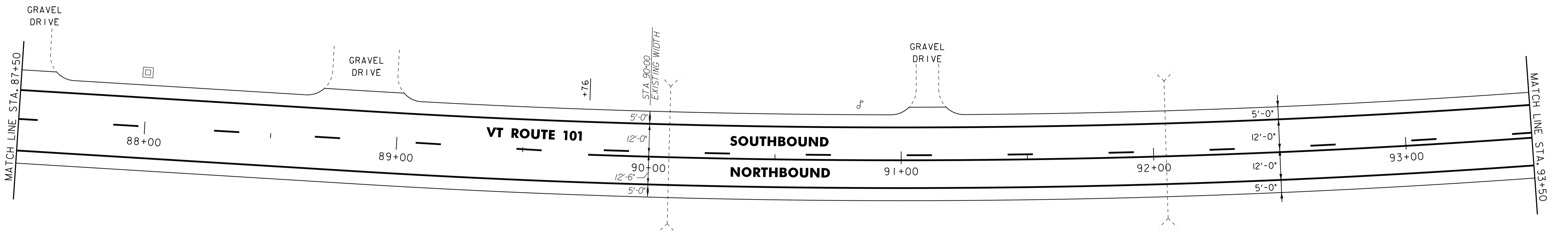


646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 87+50 TO 93+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 87+50 TO 93+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 87+50 TO 89+76, DASHED C  
 STA. 89+76 TO 93+50, DASHED LT, SOLID RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 87+50 TO 89+76, DASHED C  
 STA. 89+76 TO 93+50, DASHED LT, SOLID RT



- NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1A.



NOT TO SCALE

**PROJECT  
 LAYOUT  
 SHEET #9**

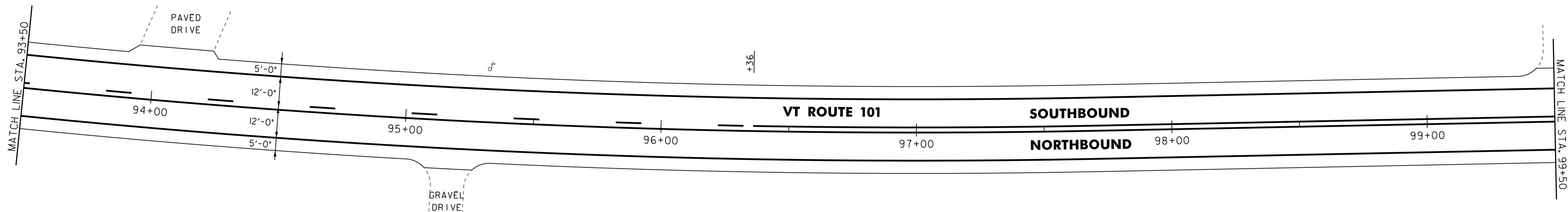
PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 14:00
PROJECT NUMBER: STP-HES 2718(1)	DRAWN BY: STANTEC
FILE NAME: p07c200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 25 OF 116
DESIGNED BY: MCF	
IPARM FILE: p07c200i09.i	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
STA. 93+50 TO 99+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
STA. 93+50 TO 99+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
STA. 93+50 TO 96+36, DASHED LT, SOLID RT  
STA. 96+36 TO 99+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
STA. 93+50 TO 96+36, DASHED LT, SOLID RT  
STA. 96+36 TO 99+50, SOLID LT & RT

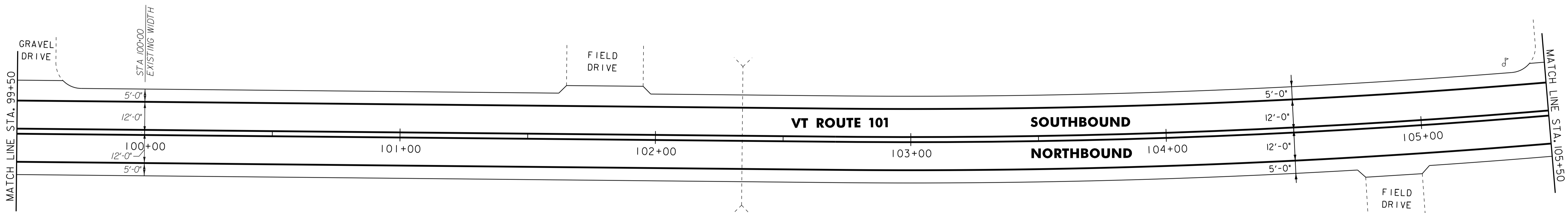


646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
STA. 99+50 TO 105+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
STA. 99+50 TO 105+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
STA. 99+50 TO 105+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
STA. 99+50 TO 105+50, SOLID LT & RT



- NOTES:  
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
2. FOR LEGENDS, SEE LAYOUT SHEET #1A.



**PROJECT  
LAYOUT  
SHEET #10**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 4:00
PROJECT NUMBER: STP-HES 2718(1)	DRAWN BY: STANTEC
FILE NAME: p07c200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 26 OF 116
DESIGNED BY: MCF	
IPARM FILE: p07c200i10.i	

616.35 TREATED TIMBER CURB  
STA. 111+10 TO 111+50, RT

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS  
STA. 108+47.5 TO 111+50, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED  
STA. 108+10 TO 108+47.5, RT

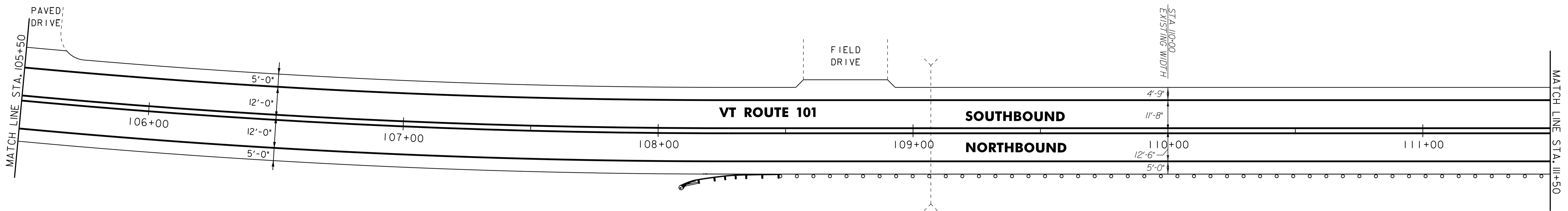
621.80 REMOVAL AND DISPOSAL OF GUARDRAIL  
STA. 108+10 TO 111+50, RT

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
STA. 105+50 TO 111+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
STA. 105+50 TO 111+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
STA. 105+50 TO 111+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
STA. 105+50 TO 111+50, SOLID LT & RT



604.412, 604.415, OR 604.418 REHAB.  
D1'S, CB'S OR MH'S, CLASS 1, II OR III  
STA. 115+66, RT

616.35 TREATED TIMBER CURB  
STA. 111+50 TO 115+67, RT

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS  
STA. 111+50 TO 116+35, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED  
STA. 116+35 TO 116+72.5, RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL  
STA. 111+50 TO 116+68, RT

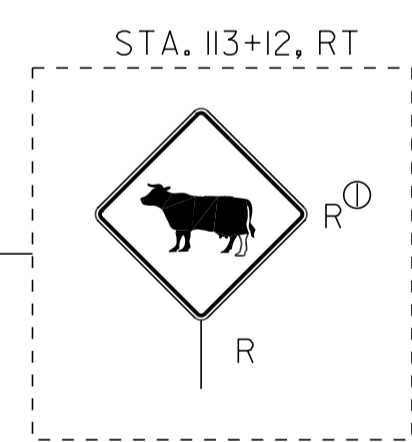
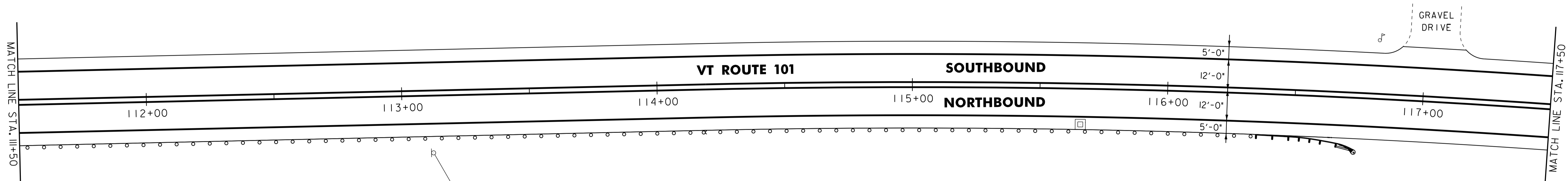
646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
STA. 111+50 TO 117+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
STA. 111+50 TO 117+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
STA. 111+50 TO 117+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
STA. 111+50 TO 117+50, SOLID LT & RT

675.50 REMOVING SIGNS  
AS SHOWN - 1



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
  2. FOR LEGENDS, SEE LAYOUT SHEET #1A.



NOT TO SCALE

**PROJECT  
LAYOUT  
SHEET #11**

PROJECT NAME: TROY  
PROJECT NUMBER: STP-HES 2718(1)

FILE NAME: p07c200.dgn  
PROJECT LEADER: JLL  
DESIGNED BY: MCF  
IPARM FILE: p07c20011.i

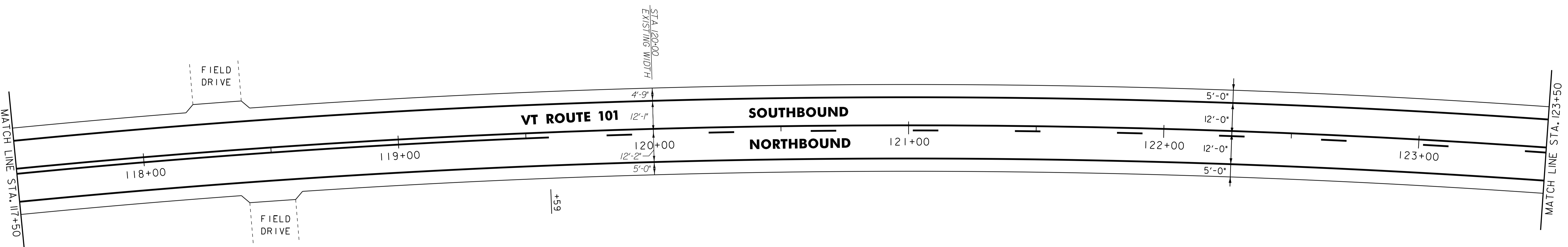
PLOT DATE: 25-OCT-2011 4:00  
DRAWN BY: STANTEC  
CHECKED BY: JLL  
SHEET 27 OF 116

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 117+50 TO 123+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 117+50 TO 123+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 117+50 TO 119+59, SOLID LT & RT  
 STA. 119+59 TO 123+50, SOLID LT, DASHED RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 117+50 TO 119+59, SOLID LT & RT  
 STA. 119+59 TO 123+50, SOLID LT, DASHED RT



621.20 STEEL BEAM GUARDRAIL, GALVANIZED  
 STA. ~~127+35.5~~ TO 129+50, LT  
 STA. ~~128+62.5~~ TO 129+50, RT  
 25.5

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL  
 STA. 127+78 TO 129+50, LT  
 STA. 128+27 TO 129+50, RT

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 123+50 TO 129+50, SOLID LT & RT

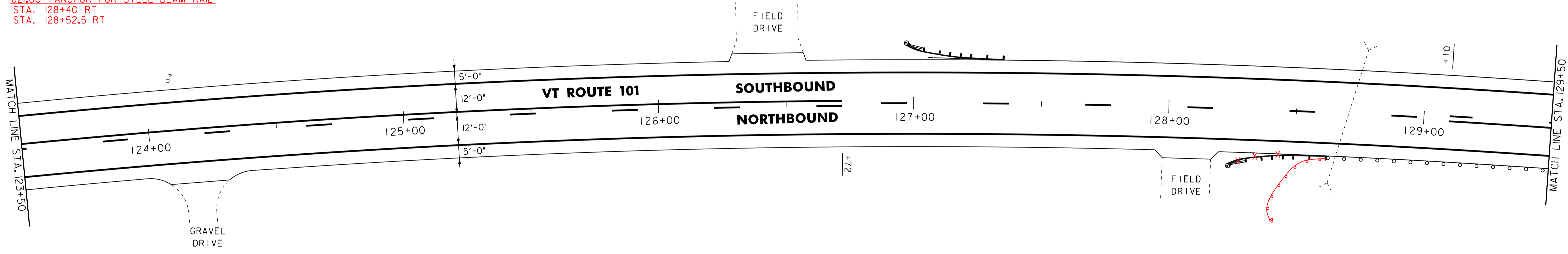
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 123+50 TO 129+50, SOLID LT & RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED  
 STA. ~~126+98~~ TO ~~127+35.5~~, LT  
 STA. ~~126+85.5~~ TO 127+23, RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 123+50 TO 126+72, SOLID LT, DASHED RT  
 STA. 126+72 TO 129+10, DASHED LT  
 STA. 129+10 TO 129+50, DASHED LT, SOLID RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 123+50 TO 126+72, SOLID LT, DASHED RT  
 STA. 126+72 TO 129+10, DASHED LT  
 STA. 129+10 TO 129+50, DASHED LT, SOLID RT

621.60 ANCHOR FOR STEEL BEAM RAIL  
 STA. 128+40 RT  
 STA. 128+52.5 RT



NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1A.



<b>NOT TO SCALE</b>	
<b>PROJECT LAYOUT SHEET #12</b>	
PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 4:00
PROJECT NUMBER: STP-HES 2718(1)	DRAWN BY: STANTEC
FILE NAME: p07c200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 28 OF 116
DESIGNED BY: MCF	
IPARM FILE: p07c200i12.i	

621.20 STEEL BEAM GUARDRAIL, GALVANIZED

STA. 129+50 TO 130+00, RT 130+02.5  
STA. 129+50 TO 131+23, LT  
130+73

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL

STA. 129+50 TO 130+07, LT  
05  
STA. 129+50 TO 130+40 RT

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC

STA. 129+50 TO 135+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT

STA. 129+50 TO 135+50, SOLID LT & RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED

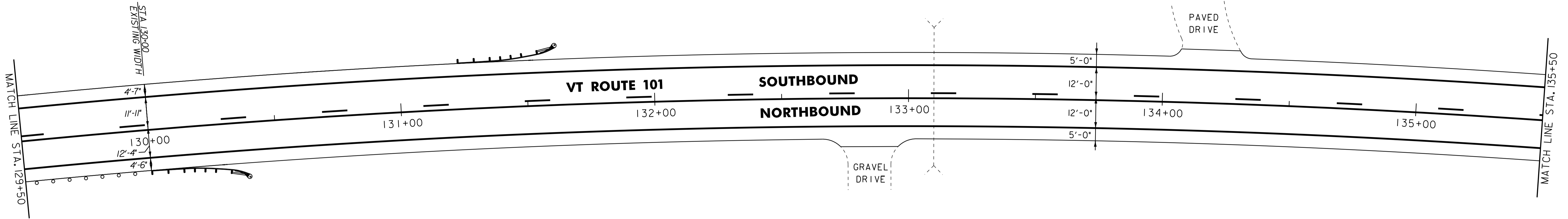
STA. 130+00 TO 130+37.5, RT 130+02.5 TO 130+40 RT  
STA. 131+23 TO 131+60.5, LT  
130+73 131+10.5

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC

STA. 129+50 TO 135+50, DASHED LT, SOLID RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT

STA. 129+50 TO 135+50, DASHED LT, SOLID RT



646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC

STA. 135+50 TO 141+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT

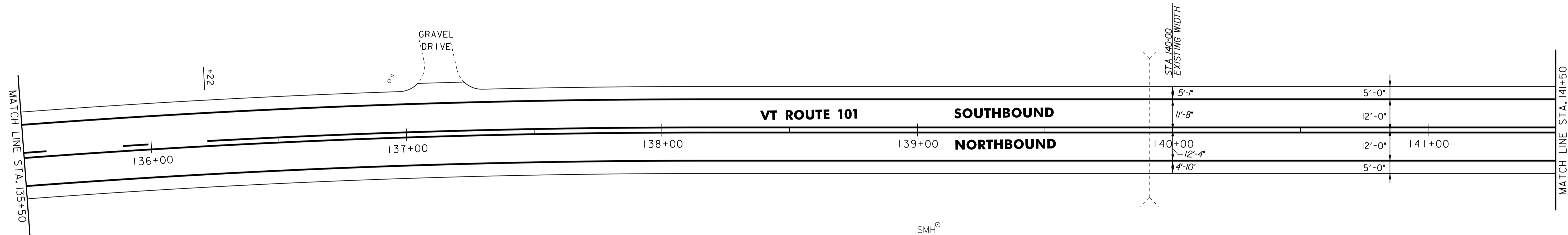
STA. 135+50 TO 141+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC

STA. 135+50 TO 136+22, DASHED LT, SOLID RT  
STA. 136+22 TO 141+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT

STA. 135+50 TO 136+22, DASHED LT, SOLID RT  
STA. 136+22 TO 141+50, SOLID LT & RT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
  2. FOR LEGENDS, SEE LAYOUT SHEET #1A.

NOT TO SCALE



**PROJECT  
LAYOUT  
SHEET #13**

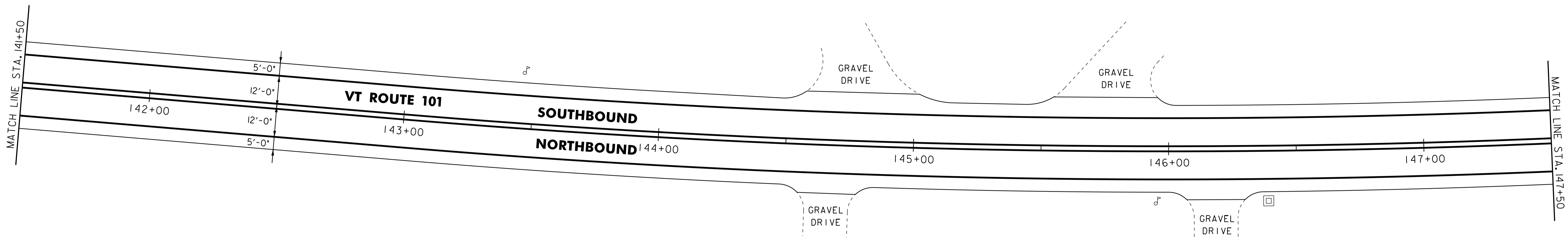
PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 14:00
PROJECT NUMBER: STP-HES 2718(1)	DRAWN BY: STANTEC
FILE NAME: p07c200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 29 OF 116
DESIGNED BY: MCF	
IPARM FILE: p07c200i13.i	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
STA. 141+50 TO 147+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
STA. 141+50 TO 147+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
STA. 141+50 TO 147+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
STA. 141+50 TO 147+50, SOLID LT & RT

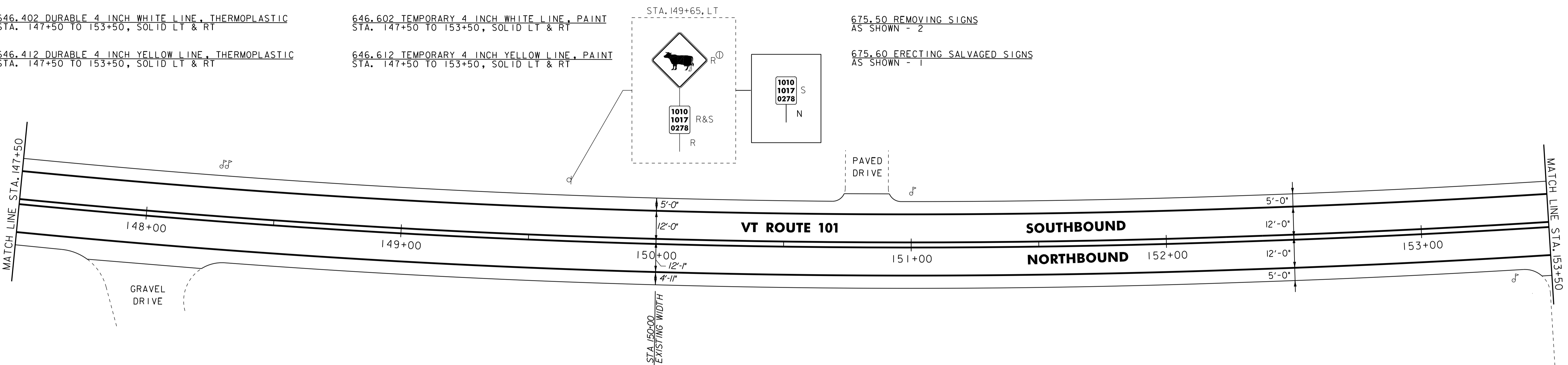


646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
STA. 147+50 TO 153+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
STA. 147+50 TO 153+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
STA. 147+50 TO 153+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
STA. 147+50 TO 153+50, SOLID LT & RT



675.50 REMOVING SIGNS  
AS SHOWN - 2

675.60 ERECTING SALVAGED SIGNS  
AS SHOWN - 1

- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
  2. FOR LEGENDS, SEE LAYOUT SHEET #1A.

NOT TO SCALE



**PROJECT  
LAYOUT  
SHEET #14**

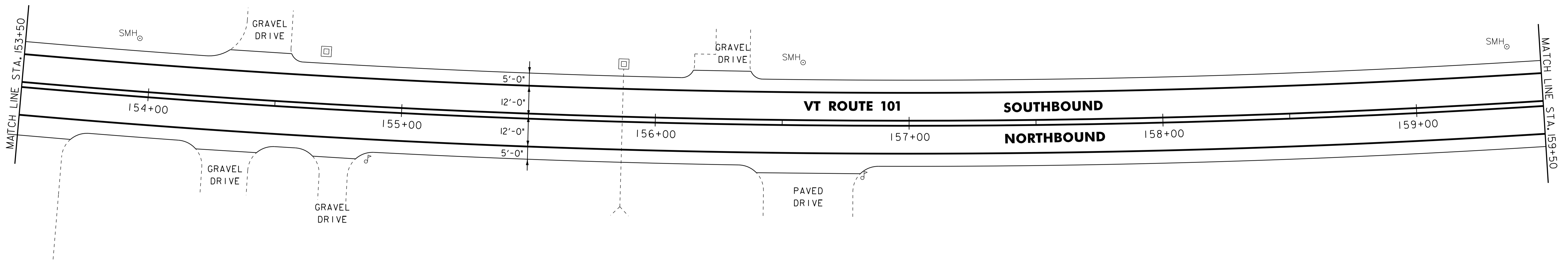
PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 4:00
PROJECT NUMBER: STP-HES 2718(1)	DRAWN BY: STANTEC
FILE NAME: p07c200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 30 OF 116
DESIGNED BY: MCF	
IPARM FILE: p07c200i14.i	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 153+50 TO 159+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 153+50 TO 159+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 153+50 TO 159+50, SOLID LT & RT

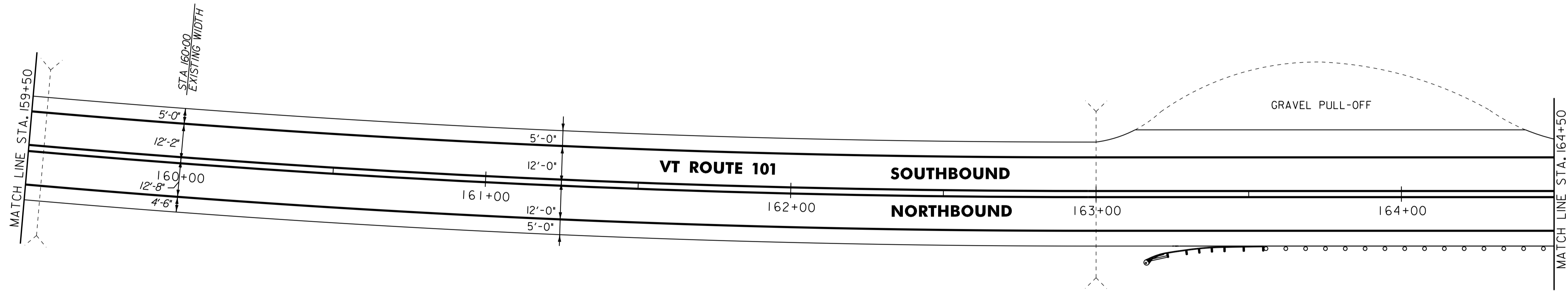
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 153+50 TO 159+50, SOLID LT & RT



621.20 STEEL BEAM GUARDRAIL, GALVANIZED  
 STA. 163+55 TO 164+50, RT  
 48.5

621.50 MANUFACTURED TERMINAL SECTION, FLARED  
 STA. 163+17.5 TO 163+55, RT  
 11 48.5

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL  
 STA. 163+28 TO 164+50, RT  
 11



NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1A.

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 159+50 TO 164+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 159+50 TO 164+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 159+50 TO 164+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 159+50 TO 164+50, SOLID LT & RT



NOT TO SCALE

**PROJECT  
 LAYOUT  
 SHEET #15**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 14:00
PROJECT NUMBER: STP-HES 2718(1)	DRAWN BY: STANTEC
FILE NAME: p07c200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 31 OF 116
DESIGNED BY: MCF	
IPARM FILE: p07c200i15.i	

621.20 STEEL BEAM GUARDRAIL, GALVANIZED  
 STA. 164+50 TO +69+17.5, RT  
 168+98.5

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL  
 STA. 164+50 TO 169+57, RT  
 36

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 164+50 TO 170+50, SOLID LT & RT  
 (ALL LINES WILL INCLUDE EDGE LINE RADIUS FOR  
 SIDE ROADS)

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC  
 STA. 165+88, LT (VT ROUTE 242)

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 164+50 TO 170+50, SOLID LT & RT  
 (ALL LINES WILL INCLUDE EDGE LINE RADIUS FOR  
 SIDE ROADS)

621.50 MANUFACTURED TERMINAL SECTION, FLARED  
 STA. +69+17.5 TO +69+55, RT  
 168+98.5 169+36

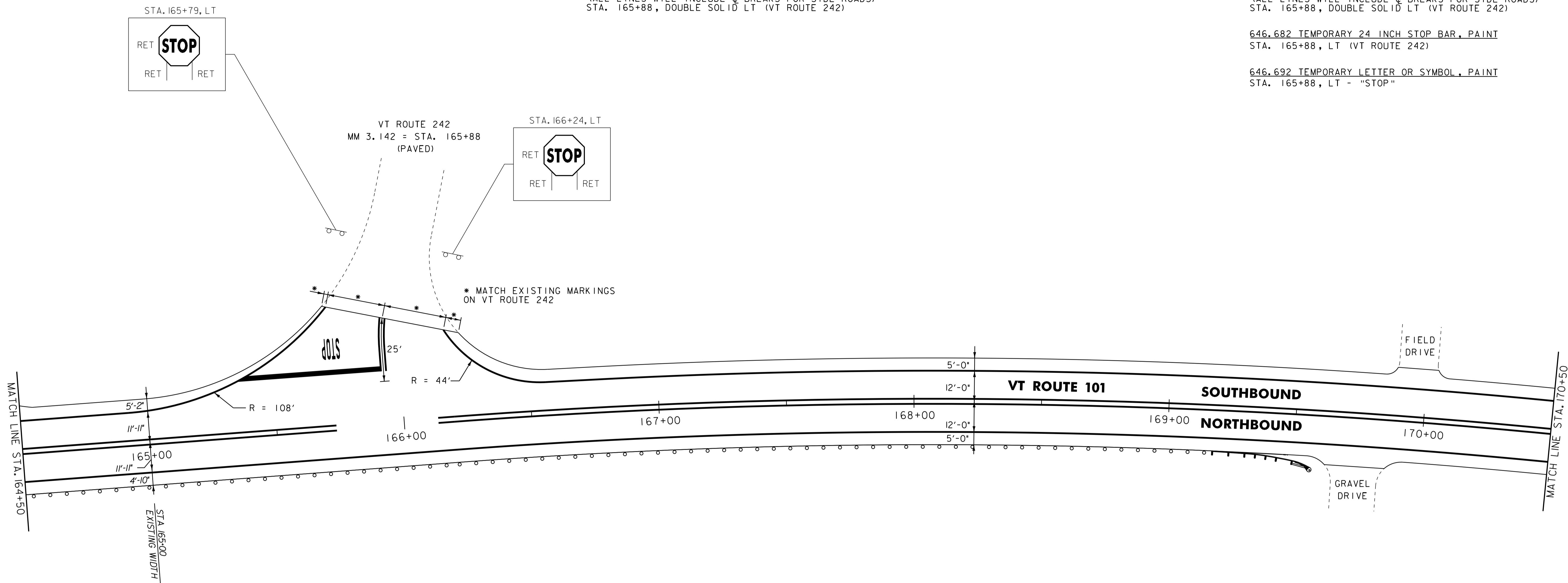
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 164+50 TO 170+50, SOLID LT & RT  
 (ALL LINES WILL INCLUDE @ BREAKS FOR SIDE ROADS)  
 STA. 165+88, DOUBLE SOLID LT (VT ROUTE 242)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC  
 STA. 165+88, LT - "STOP"

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 164+50 TO 170+50, SOLID LT & RT  
 (ALL LINES WILL INCLUDE @ BREAKS FOR SIDE ROADS)  
 STA. 165+88, DOUBLE SOLID LT (VT ROUTE 242)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT  
 STA. 165+88, LT (VT ROUTE 242)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT  
 STA. 165+88, LT - "STOP"



NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1A.

NOT TO SCALE



**PROJECT  
 LAYOUT  
 SHEET #16**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 4:00
PROJECT NUMBER: STP-HES 2718(1)	DRAWN BY: STANTEC
FILE NAME: p07c200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 32 OF 116
DESIGNED BY: MCF	
IPARM FILE: p07c200i16.i	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 170+50 TO 176+50, SOLID LT & RT

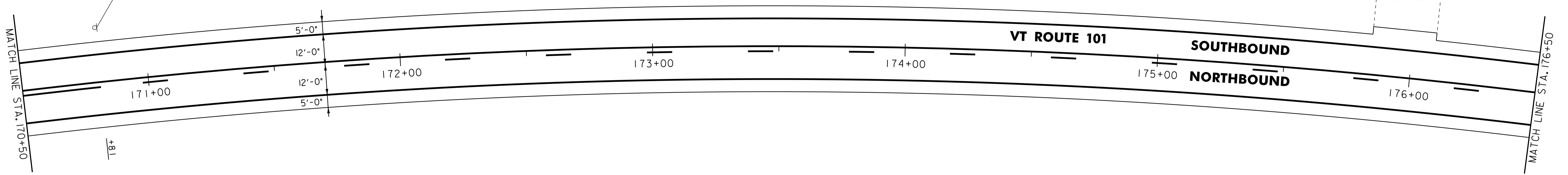
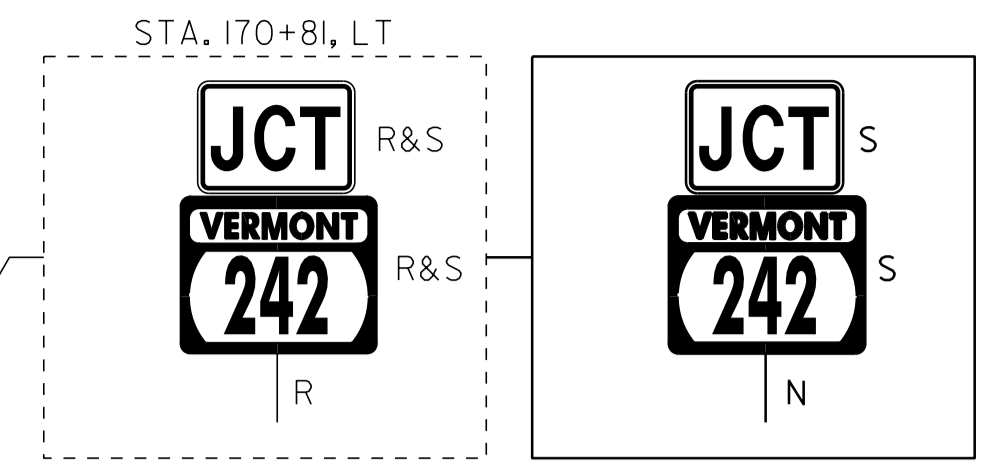
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 170+50 TO 170+81, SOLID LT & RT  
 STA. 170+81 TO 176+50, SOLID LT, DASHED RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 170+50 TO 176+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 170+50 TO 170+81, SOLID LT & RT  
 STA. 170+81 TO 176+50, SOLID LT, DASHED RT

675.50 REMOVING SIGNS  
 AS SHOWN - 2

675.60 ERECTING SALVAGED SIGNS  
 AS SHOWN - 2



646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 176+50 TO 182+50, SOLID LT & RT

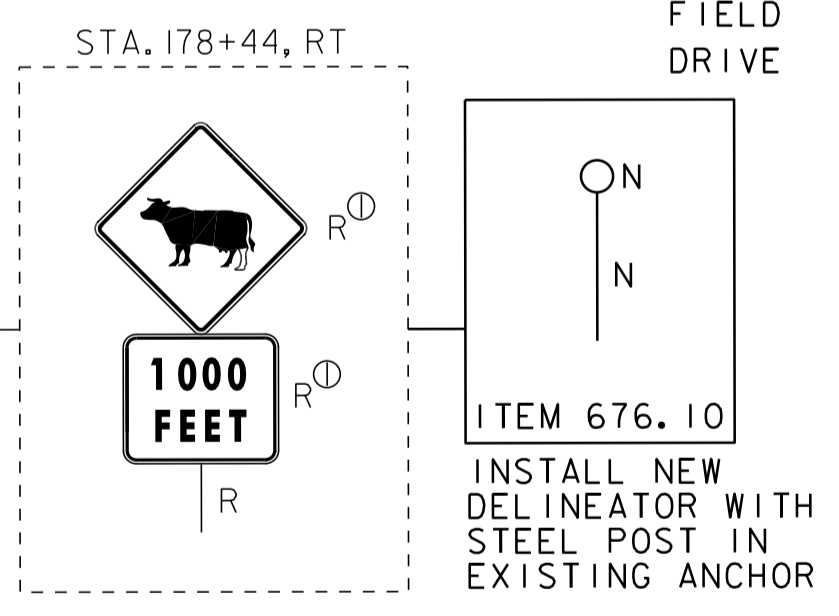
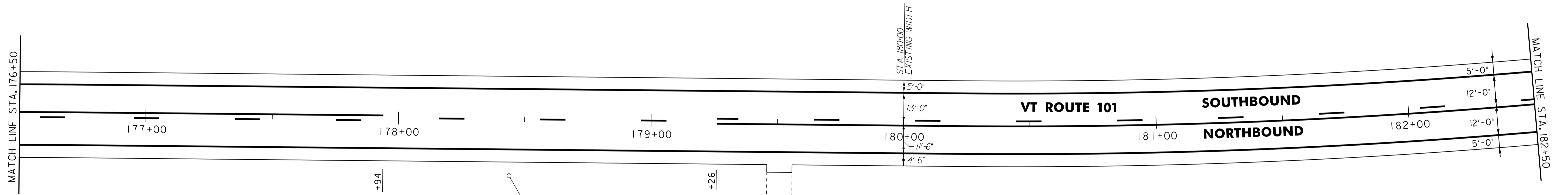
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 176+50 TO 177+94, SOLID LT, DASHED RT  
 STA. 177+94 TO 179+26, DASHED C  
 STA. 179+26 TO 182+50, DASHED LT, SOLID RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 176+50 TO 182+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 176+50 TO 177+94, SOLID LT, DASHED RT  
 STA. 177+94 TO 179+26, DASHED C  
 STA. 179+26 TO 182+50, DASHED LT, SOLID RT

675.50 REMOVING SIGNS  
 AS SHOWN - 2

676.10 DELINEATOR WITH STEEL POST  
 STA. 178+44, RT



NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1A.



**NOT TO SCALE**

**PROJECT LAYOUT SHEET #17**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 4:00
PROJECT NUMBER: STP-HES 2718(1)	DRAWN BY: STANTEC
FILE NAME: p07c200.dgn	CHECKED BY: JLL
DESIGNED BY: MCF	SHEET 33 OF 116
IPARM FILE: p07c200i17.i	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 182+50 TO 188+50, SOLID LT & RT

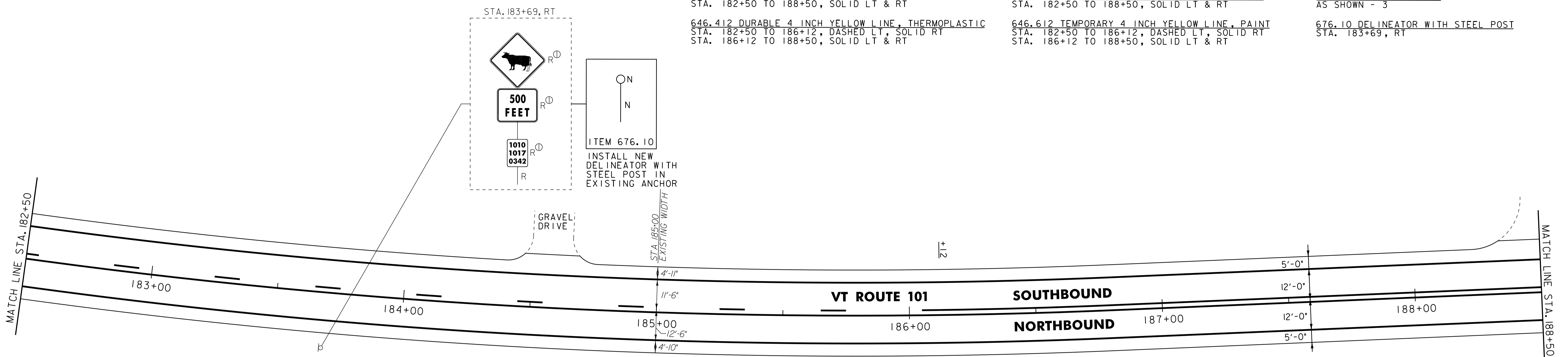
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 182+50 TO 188+50, SOLID LT & RT

675.50 REMOVING SIGNS  
 AS SHOWN - 3

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 182+50 TO 186+12, DASHED LT, SOLID RT  
 STA. 186+12 TO 188+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 182+50 TO 186+12, DASHED LT, SOLID RT  
 STA. 186+12 TO 188+50, SOLID LT & RT

676.10 DELINEATOR WITH STEEL POST  
 STA. 183+69, RT



646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 188+50 TO 194+50, SOLID LT & RT

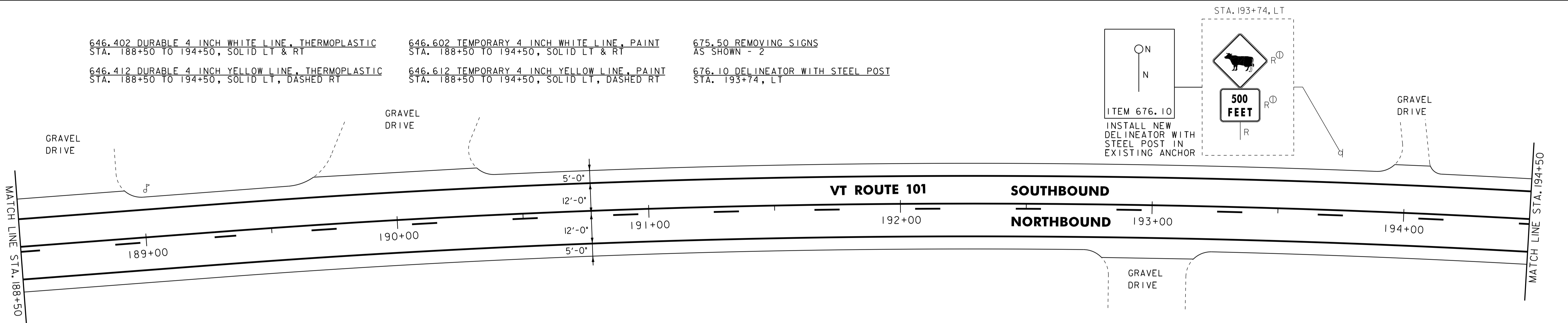
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 188+50 TO 194+50, SOLID LT & RT

675.50 REMOVING SIGNS  
 AS SHOWN - 2

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 188+50 TO 194+50, SOLID LT, DASHED RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 188+50 TO 194+50, SOLID LT, DASHED RT

676.10 DELINEATOR WITH STEEL POST  
 STA. 193+74, LT



- NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1A.

NOT TO SCALE



**PROJECT  
 LAYOUT  
 SHEET #18**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 14:00
PROJECT NUMBER: STP-HES 2718(1)	DRAWN BY: STANTEC
FILE NAME: p07c200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 34 OF 116
DESIGNED BY: MCF	
IPARM FILE: p07c200118.i	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 194+50 TO 200+50, SOLID LT & RT

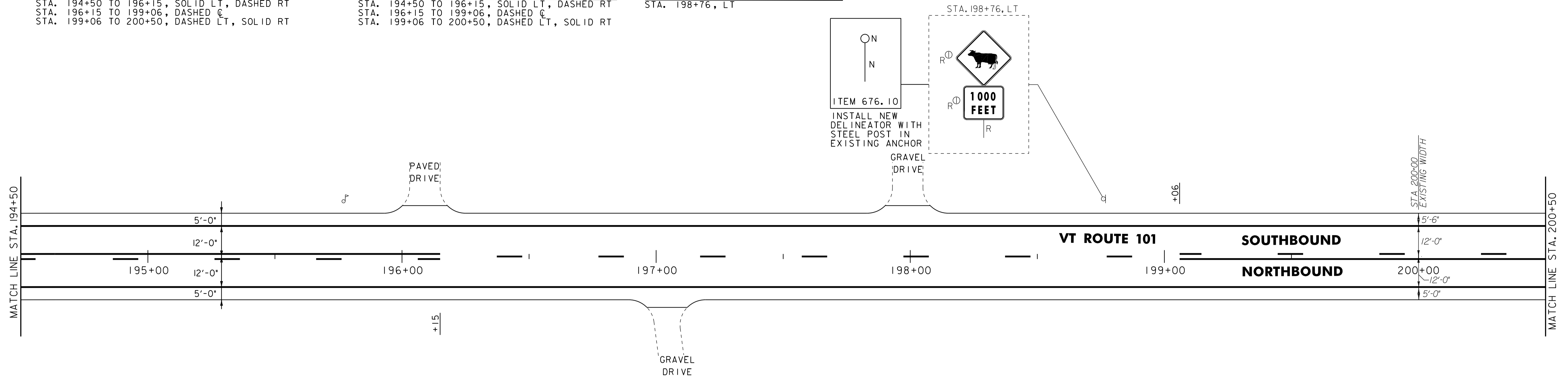
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 194+50 TO 200+50, SOLID LT & RT

675.50 REMOVING SIGNS  
 AS SHOWN - 2

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 194+50 TO 196+15, SOLID LT, DASHED RT  
 STA. 196+15 TO 199+06, DASHED C  
 STA. 199+06 TO 200+50, DASHED LT, SOLID RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 194+50 TO 196+15, SOLID LT, DASHED RT  
 STA. 196+15 TO 199+06, DASHED C  
 STA. 199+06 TO 200+50, DASHED LT, SOLID RT

676.10 DELINEATOR WITH STEEL POST  
 STA. 198+76, LT



646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 200+50 TO 206+50, SOLID LT & RT

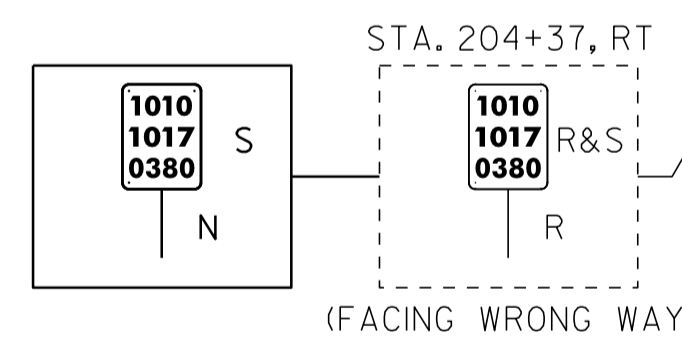
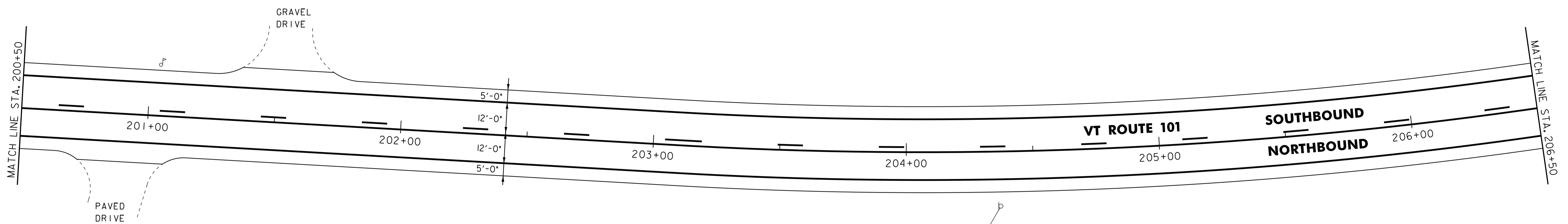
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 200+50 TO 206+50, SOLID LT & RT

675.50 REMOVING SIGNS  
 AS SHOWN - 1

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 200+50 TO 206+50, DASHED LT, SOLID RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 200+50 TO 206+50, DASHED LT, SOLID RT

675.60 ERECTING SALVAGED SIGNS  
 AS SHOWN - 1



NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1A.



NOT TO SCALE

**PROJECT LAYOUT SHEET #19**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 4:00
PROJECT NUMBER: STP-HES 2718(1)	DRAWN BY: STANTEC
FILE NAME: p07c200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 35 OF 116
DESIGNED BY: MCF	
IPARM FILE: p07c200119.i	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 206+50 TO 212+50, SOLID LT & RT  
 STA. 211+82, DOUBLE SOLID LT (TH-43 EDGELINES)

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 206+50 TO 206+98, DASHED LT, SOLID RT  
 STA. 206+98 TO 212+50, SOLID LT & RT  
 (ALL LINE WILL INCLUDE @ BREAKS FOR SIDE ROADS)  
 STA. 211+82, DOUBLE SOLID LT (TH-43)

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC  
 STA. 211+82, LT (TH-43)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC  
 STA. 211+82, LT "STOP"

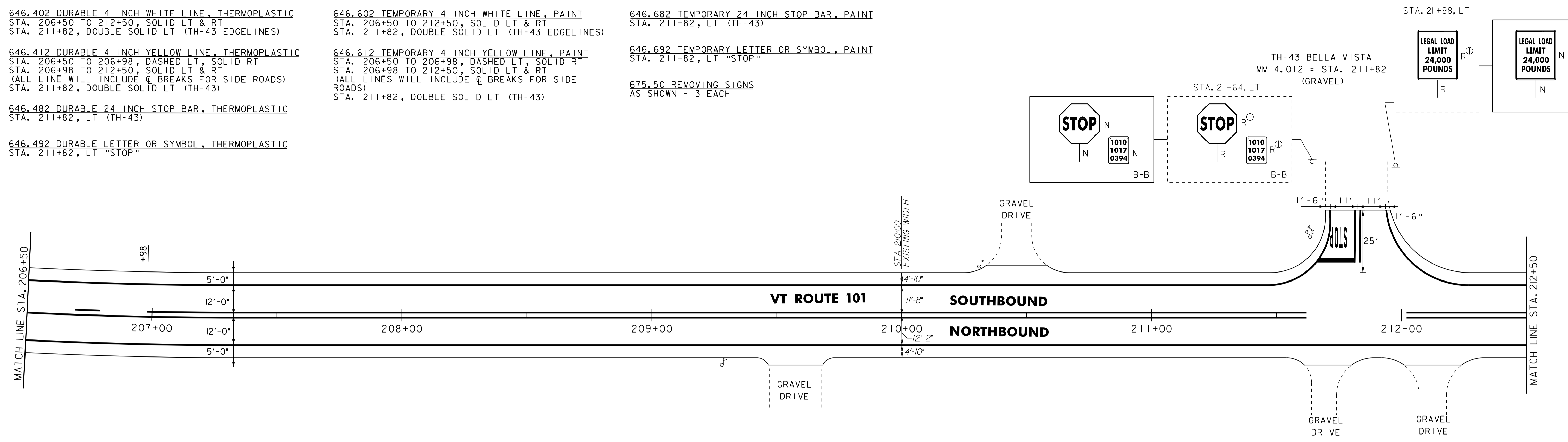
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 206+50 TO 212+50, SOLID LT & RT  
 STA. 211+82, DOUBLE SOLID LT (TH-43 EDGELINES)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 206+50 TO 206+98, DASHED LT, SOLID RT  
 STA. 206+98 TO 212+50, SOLID LT & RT  
 (ALL LINES WILL INCLUDE @ BREAKS FOR SIDE ROADS)  
 STA. 211+82, DOUBLE SOLID LT (TH-43)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT  
 STA. 211+82, LT (TH-43)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT  
 STA. 211+82, LT "STOP"

675.50 REMOVING SIGNS  
 AS SHOWN - 3 EACH

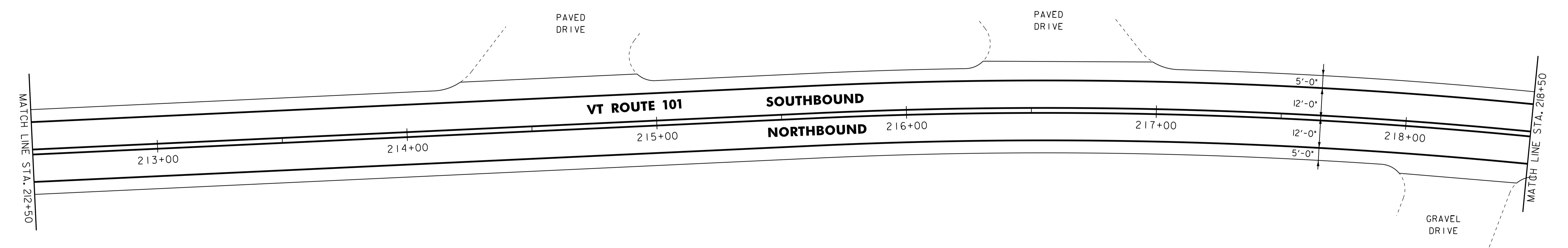


646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 212+50 TO 218+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 212+50 TO 218+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 212+50 TO 218+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 212+50 TO 218+50, SOLID LT & RT



- NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1A.



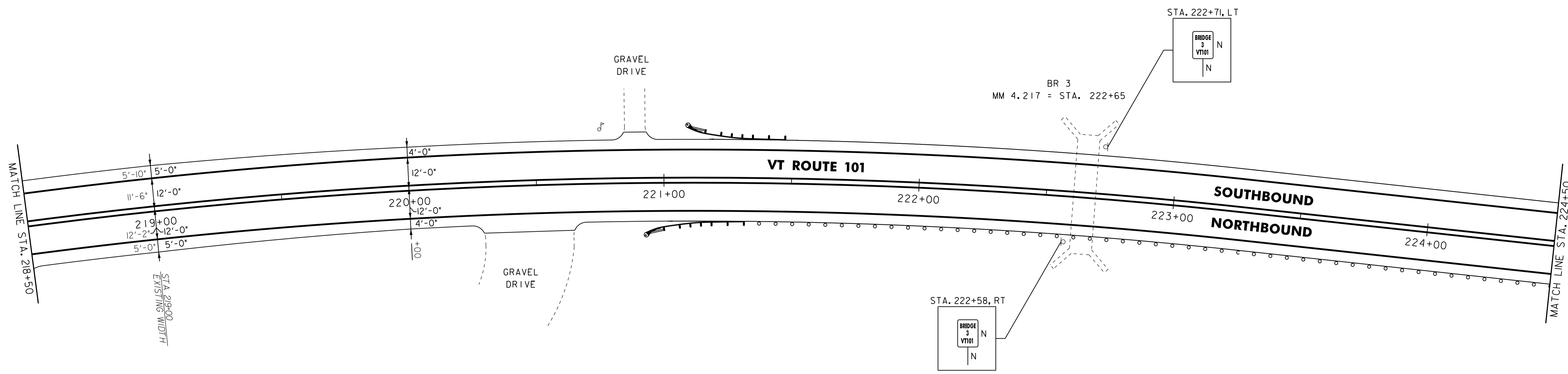
**PROJECT LAYOUT SHEET #20**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 14:00
PROJECT NUMBER: STP-HES 2718(1)	DRAWN BY: STANTEC
FILE NAME: p07c200.dgn	CHECKED BY: JLL
DESIGNED BY: MCF	SHEET 36 OF 116
IPARM FILE: p07c200i20.i	

221+29.5  
 621.20 STEEL BEAM GUARDRAIL, GALVANIZED  
 STA. 221+32.5 TO 224+50, RT  
 STA. 221+47.5 TO 224+50, LT  
 621.50 MANUFACTURED TERMINAL SECTION, FLARED  
 STA. 220+95.2 TO 221+32.5, RT  
 STA. 221+10.2 TO 221+47.5, LT  
 621.80 REMOVAL AND DISPOSAL OF GUARDRAIL  
 STA. 220+98.2 TO 224+50, RT  
 STA. 221+1+2 TO 224+50, LT

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 218+50 TO 224+50, SOLID LT & RT  
 646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 218+50 TO 224+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 218+50 TO 224+50, SOLID LT & RT  
 646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 218+50 TO 224+50, SOLID LT & RT



NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1A.

NOT TO SCALE



**PROJECT LAYOUT SHEET #21**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 14:00
PROJECT NUMBER: STP-HES 2718(1)	DRAWN BY: STANTEC
FILE NAME: p07c200.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 37 OF 116
DESIGNED BY: MCF	
IPARM FILE: p07c200i21.i	

621.20 STEEL BEAM GUARDRAIL, GALVANIZED  
 STA. 224+50 TO 225+07.5, RT 224+92  
 STA. 224+50 TO 225+72.5, LT 62

621.50 MANUFACTURED TERMINAL SECTION, FLARED  
 STA. 225+07.5 TO 225+45, RT  
 STA. 225+72.5 TO 226+10, LT 62

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL  
 STA. 224+50 TO 225+48, RT 29.5  
 STA. 224+50 TO 226+04, LT 225+99.5

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 224+50 TO 229+73.28, SOLID LT & RT  
 STA. 227+11, DOUBLE SOLID RT (TH-12 EDGELINES)

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 224+50 TO 229+73.28, SOLID LT & RT  
 (ALL LINES WILL INCLUDE C BREAKS FOR SIDE ROADS)

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC  
 STA. 227+11, RT (TH-12)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC  
 STA. 227+11, RT "STOP"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 224+50 TO 229+73.28, SOLID LT & RT  
 STA. 227+11, DOUBLE SOLID RT (TH-12 EDGELINES)

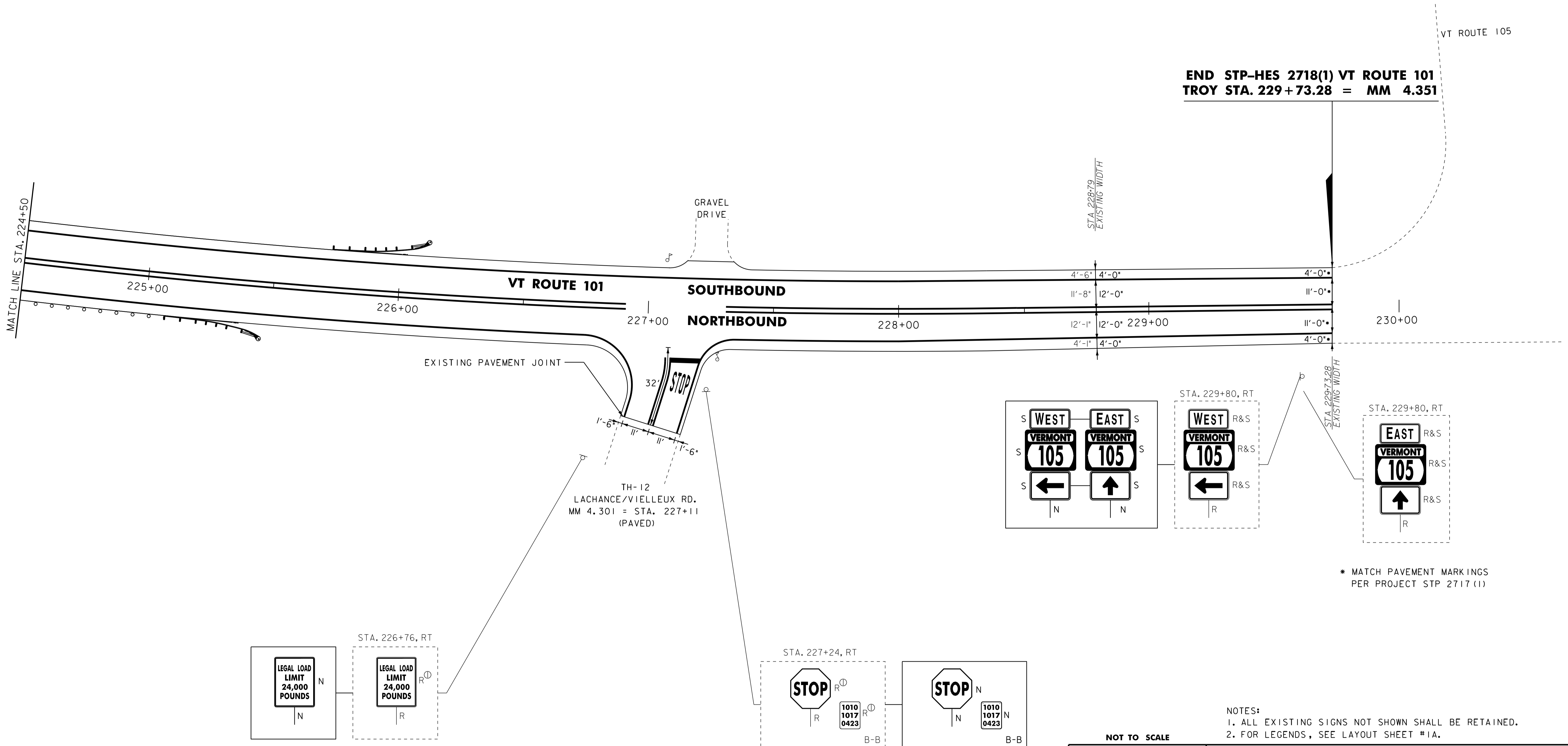
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 224+50 TO 229+73.28, SOLID LT & RT  
 (ALL LINES WILL INCLUDE C BREAKS FOR SIDE ROADS)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT  
 STA. 227+11, RT (TH-12)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT  
 STA. 227+11, RT "STOP"

675.50 REMOVING SIGNS  
 AS SHOWN - 9

675.60 ERECTING SALVAGED SIGNS  
 AS SHOWN - 6



**END STP-HES 2718(1) VT ROUTE 101  
 TROY STA. 229+73.28 = MM 4.351**

\* MATCH PAVEMENT MARKINGS  
 PER PROJECT STP 2717 (1)

NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1A.



**PROJECT LAYOUT SHEET #22**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 4:00
PROJECT NUMBER: STP-HES 2718(1)	DRAWN BY: STANTEC
FILE NAME: p07c200.dgn	CHECKED BY: JLL
DESIGNED BY: MCF	SHEET 38 OF 116
IPARM FILE: p07c200122.i	













# TRAFFIC SIGN SUMMARY SHEET 7

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST POST RETAIN	NO. OF POSTS	NEW SIGN POSTS																REMARKS	SIGN DETAIL				
		EA	WIDTH (in)	HEIGHT (in)	"A"	"B"	REMOVE SALV SIGN			SALV TIS	FLANGED CHANNEL			SQUARE STEEL (in)			TUBULAR ALUMINUM Ø (in)			TUBULAR STEEL Ø (in)				W-SHAPE STEEL			SIGN NUMBER	STD. SHEET NUMBER			
											lb/ft			lb/ft			lb/ft			lb/ft				FTG. SIZE					WEIGHT	POST SIZE	
											1.12	2.0	3.0	1.75	2.0	2.5	3.0	4.0	4.0 MOD	3.0	3.5	4.0	5.0	24"	30"						
VT ROUTE 101 (CONT.)										OPTION ITEMS																					
222+58, RT		I	6	8	0.33				I																				SIGN ID CODE VD-701	•HES	E-134
193+74 LT																															
222+71, LT		I	6	8	0.33				I																				SIGN ID CODE VD-701	•HES	E-134
198+76 LT																															
226+76, RT		I	24	30	5.0				I																				SIGN ID CODE VR-017		E-141
227+24, RT	 	I	30	30	6.25				I																				SIGN ID CODE RI-1		E-143
																													MOUNT MM PLAQUE BACK TO BACK AND BELOW STOP SIGN		E-138
229+80, RT	  																												SALVAGED SIGNS TO BE MOUNTED ON NEW POSTS	•HES •HES •HES •HES	



# STATE OF VERMONT AGENCY OF TRANSPORTATION



## PROPOSED IMPROVEMENT TOWN OF TROY COUNTY OF ORLEANS VT ROUTE 105

BEGINNING IN THE TOWN OF TROY ON VT ROUTE 105 AT STA. 10+66.56 (MM 0.202) AND EXTENDING EASTERLY ALONG VT ROUTE 105 FOR A DISTANCE OF 11,858.88 FEET (2.246 MILES) TO THE INTERSECTION OF HIGHLAND AVE AND NO. PLEASANT STREETS IN NORTH TROY AT STA. 129+25.44 (MM 2.448).

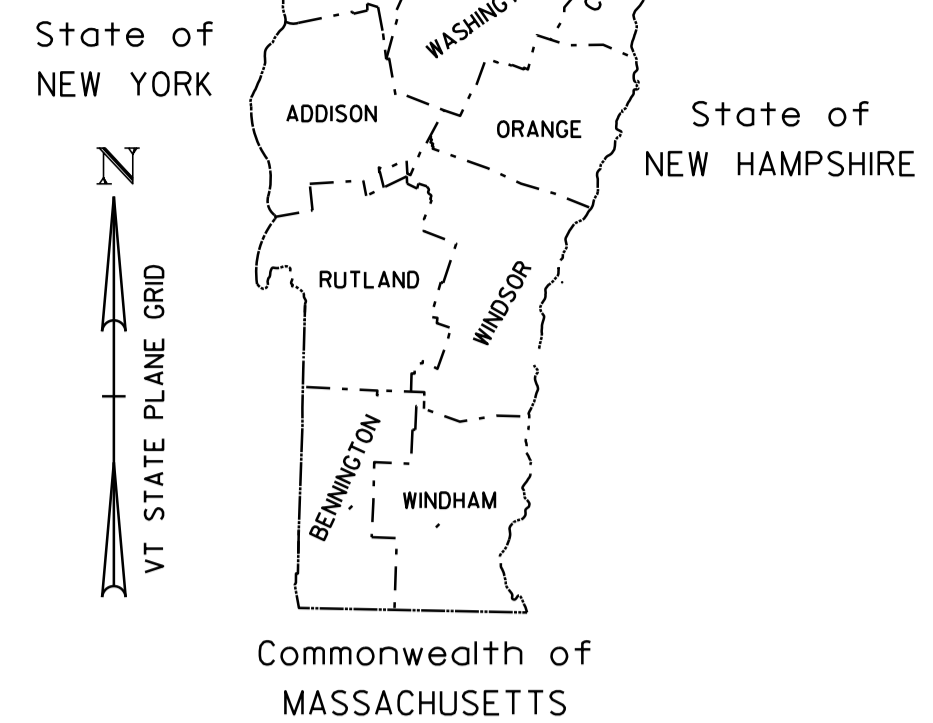
PROJECT DATA:	LENGTH (FEET)	LENGTH (MILES)
---------------	---------------	----------------

TOWN OF TROY		
VT ROUTE 105		
STA. 10+66.56 TO 129+25.44	11,858.88	
MM 0.202 TO 2.448		2.246

TOTAL LENGTH OF PROJECT:	11,858.88 FEET = 2.246 MILES
TOTAL LENGTH OF ROADWAY:	11,858.88 FEET = 2.246 MILES

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING, RECLAIMING AND RESURFACING OF THE EXISTING HIGHWAY WITH A COLD MIXED RECYCLED PAVEMENT COURSE, LEVELING COURSE AND WEARING COURSE, NEW PAVEMENT MARKINGS, GUARD RAIL, SIGNS AND OTHER INCIDENTAL ITEMS

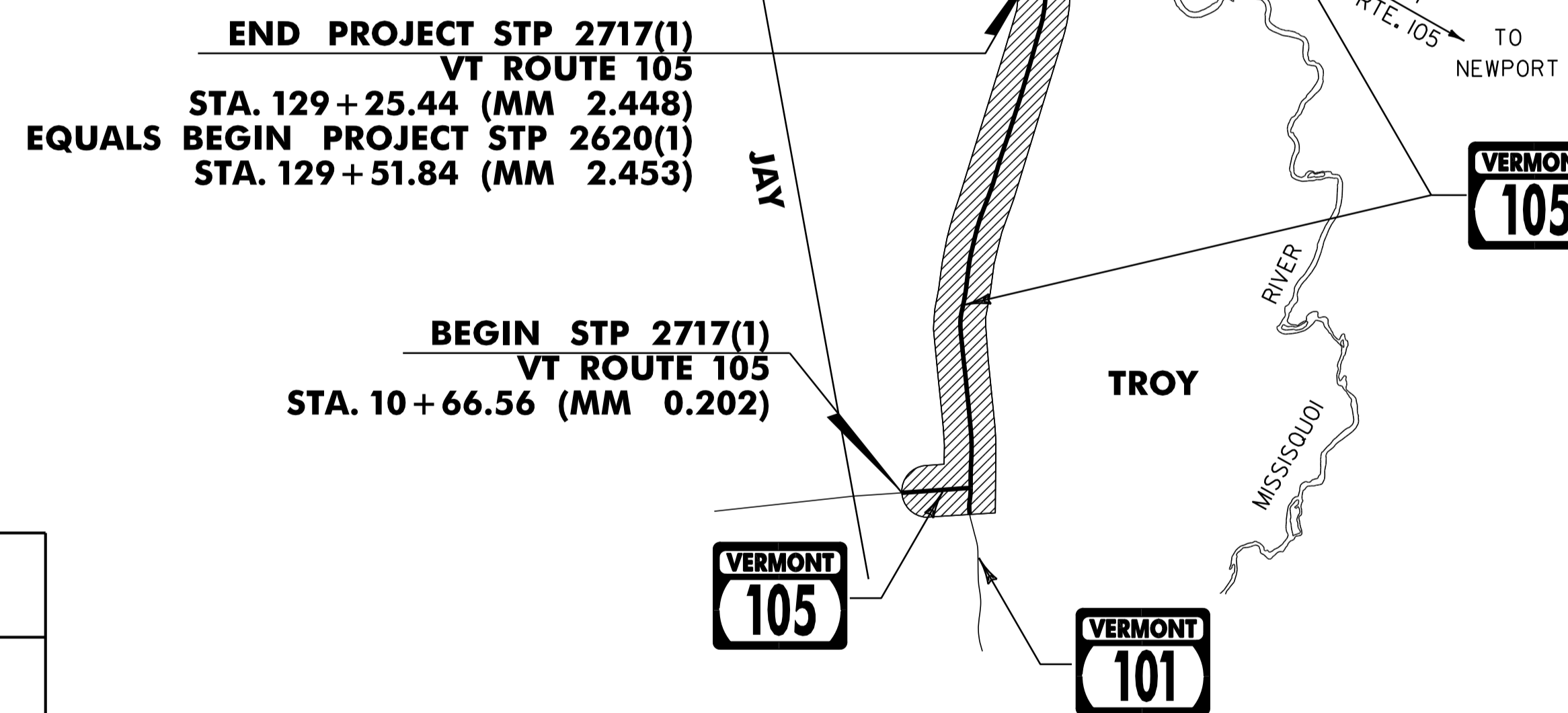
**PROJECT  
STP 2717(1)**



SUPERPAVE BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESALS	758,500
DESIGN NUMBER OF GYRATIONS	65
PERFORMANCE GRADE ASPHALT BINDER	SEE SECTION 490 GENERAL SPECIAL PROVISIONS

### TRAFFIC DATA VT ROUTE 105

LOCATION	AADT		DHV		ESALS	
	2009	2019	2009	2019	2009-2019	2009-2029
BEGIN PROJECT TO VT ROUTE 101	1,000	1,100	110	120	600,000	1,517,000
VT ROUTE 101 TO END PROJECT	1,400	1,600	160	180	443,000	1,075,000



### CONVENTIONAL SYMBOLS

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

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

DATUM  
VERTICAL N/A  
HORIZONTAL N/A

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 PURPOSES.

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

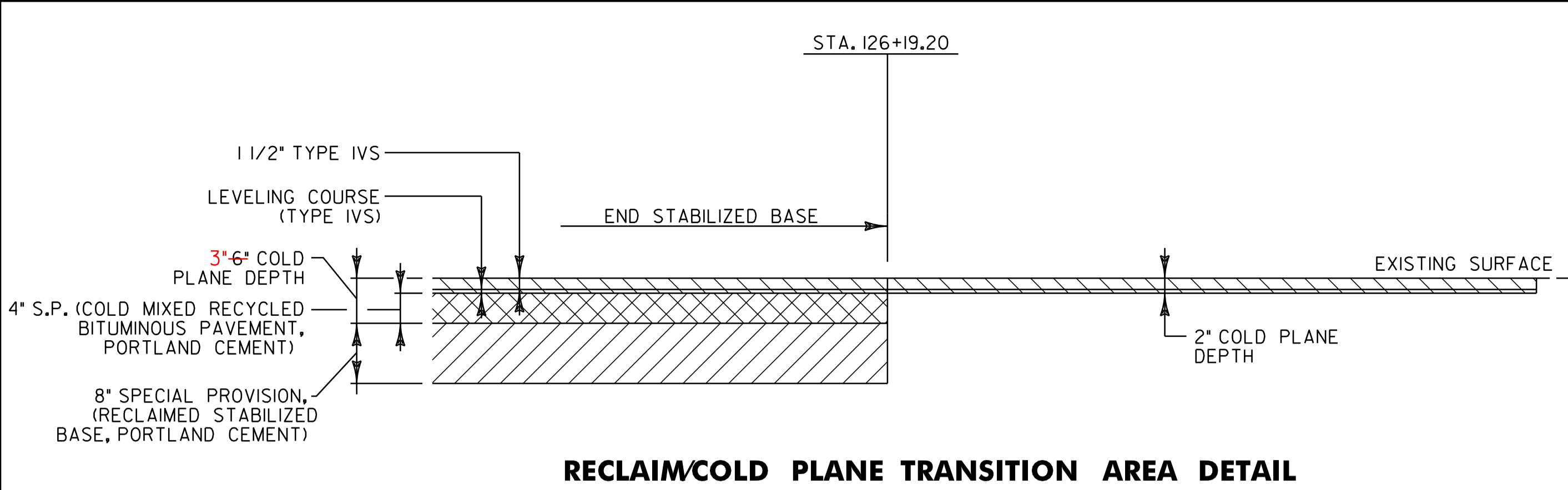
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2006, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 15, 2006 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

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



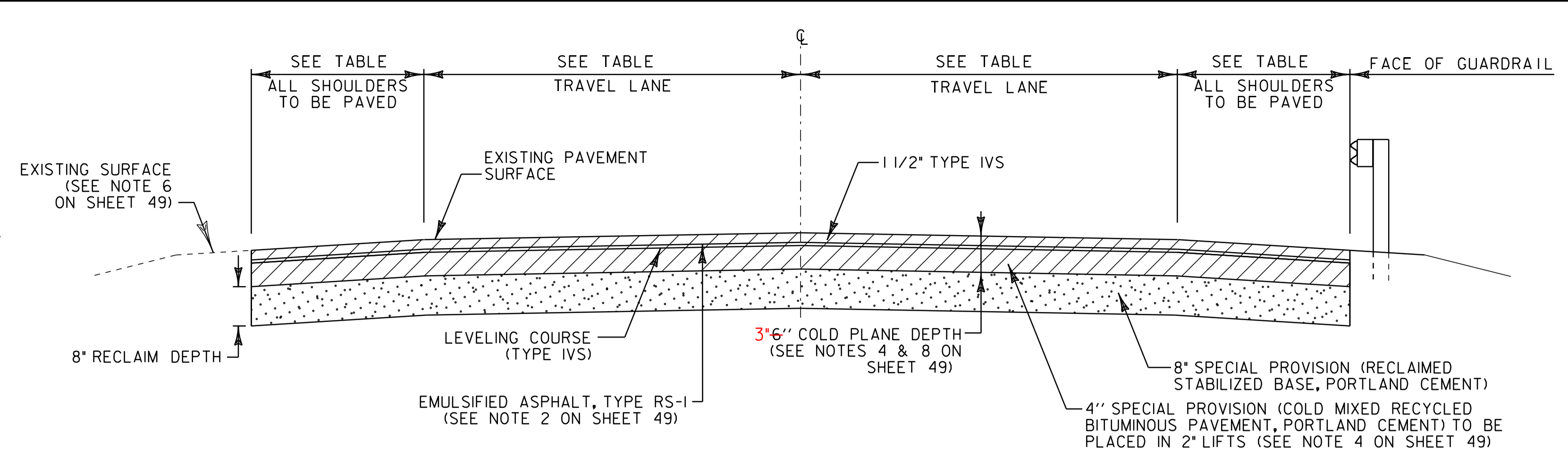
p07b198.dgn  
p07b1981s.1

PROJECT NAME : TROY  
PROJECT NUMBER : STP 2717(1)  
SHEET 47 OF 116 SHEETS



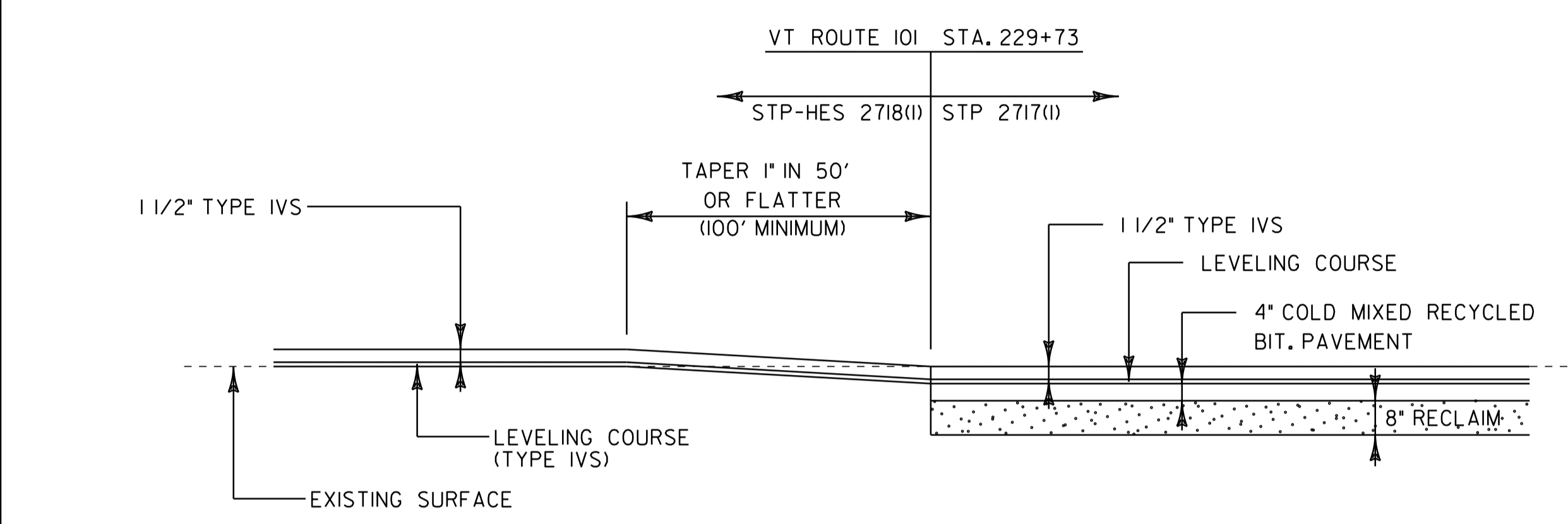
**RECLAIM/COLD PLANE TRANSITION AREA DETAIL**

FULL ROADWAY WIDTH  
VT ROUTE 105 TROY STA. 126+19.20



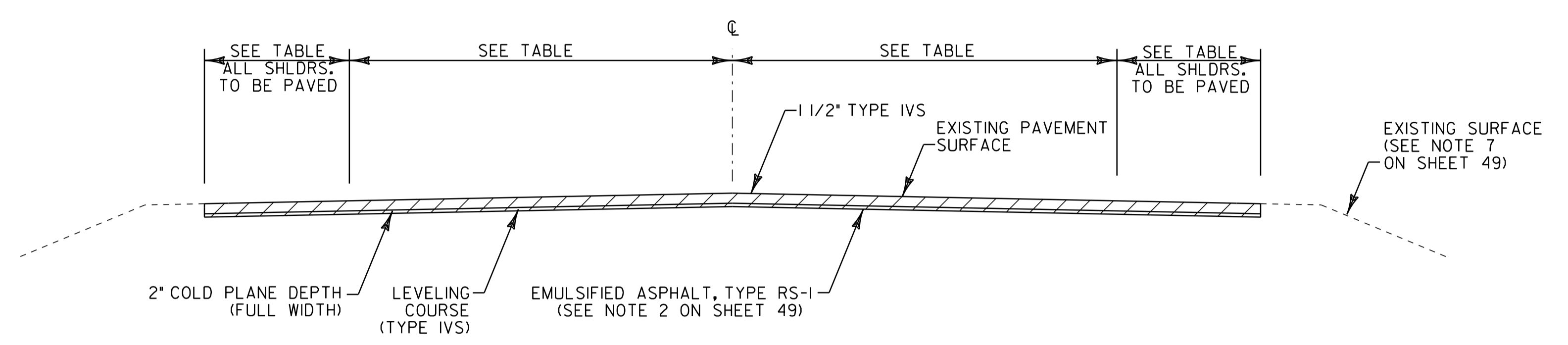
**RECLAIM TYPICAL SECTION**

VT ROUTE 105 TROY STA. 10+66.56 TO 126+19.20



**OVERLAY/COLD PLANE TRANSITION AREA DETAIL**

FULL ROADWAY WIDTH  
VT ROUTE 105/VT ROUTE 101 INTERSECTION



**COLD PLANE TYPICAL SECTION**

VT ROUTE 105 TROY STA. 126+19.20 TO 129+25.44

**PROJECT PAVING LIMITS**

TOWN & ROUTE	BEGIN STATION	END STATION	LANE TYPICAL	WEARING DEPTH	LEVELING TONS	NOTES
TROY, VT ROUTE 105	11+17	21+85	4'-0" - 11'-0" - 11'-0" - 4'-0"	1 1/2"	100	COLD PLANE -6", RECLAIM 8" WITH S.P. (RECLAIMED STABILIZED BASE, PORTLAND CEMENT), THEN PAVE WITH 4" S.P. (COLD MIXED RECYCLED BITUMINOUS PAVEMENT), THEN LEVEL AND PAVE WITH 1 1/2" TYPE IVS
TROY, VT ROUTE 105	21+85	22+35	VARIABLES - SEE PLAN	1 1/2"	21	COLD PLANE -6", RECLAIM 8" WITH S.P. (RECLAIMED STABILIZED BASE, PORTLAND CEMENT), THEN PAVE WITH 4" S.P. (COLD MIXED RECYCLED BITUMINOUS PAVEMENT), THEN LEVEL AND PAVE WITH 1 1/2" TYPE IVS
TROY, VT ROUTE 105	22+35	30+30	4'-0" - 11'-0" - 11'-0" - 4'-0"	1 1/2"	67	COLD PLANE -6", RECLAIM 8" WITH S.P. (RECLAIMED STABILIZED BASE, PORTLAND CEMENT), THEN PAVE WITH 4" S.P. (COLD MIXED RECYCLED BITUMINOUS PAVEMENT), THEN LEVEL AND PAVE WITH 1 1/2" TYPE IVS
TROY, VT ROUTE 105	30+30	35+00	VARIABLES - SEE PLAN	1 1/2"	41	COLD PLANE -6", RECLAIM 8" WITH S.P. (RECLAIMED STABILIZED BASE, PORTLAND CEMENT), THEN PAVE WITH 4" S.P. (COLD MIXED RECYCLED BITUMINOUS PAVEMENT), THEN LEVEL AND PAVE WITH 1 1/2" TYPE IVS
TROY, VT ROUTE 105	35+00	94+00	2'-0" - 11'-0" - 11'-0" - 2'-0"	1 1/2"	478	COLD PLANE -6", RECLAIM 8" WITH S.P. (RECLAIMED STABILIZED BASE, PORTLAND CEMENT), THEN PAVE WITH 4" S.P. (COLD MIXED RECYCLED BITUMINOUS PAVEMENT), THEN LEVEL AND PAVE WITH 1 1/2" TYPE IVS
TROY, VT ROUTE 105	94+00	95+00	VARIABLES - SEE PLAN	1 1/2"	8	COLD PLANE -6", RECLAIM 8" WITH S.P. (RECLAIMED STABILIZED BASE, PORTLAND CEMENT), THEN PAVE WITH 4" S.P. (COLD MIXED RECYCLED BITUMINOUS PAVEMENT), THEN LEVEL AND PAVE WITH 1 1/2" TYPE IVS
TROY, VT ROUTE 105	95+00	126+19.20	3'-0" - 11'-0" - 11'-0" - 3'-0"	1 1/2"	276	COLD PLANE -6", RECLAIM 8" WITH S.P. (RECLAIMED STABILIZED BASE, PORTLAND CEMENT), THEN PAVE WITH 4" S.P. (COLD MIXED RECYCLED BITUMINOUS PAVEMENT), THEN LEVEL AND PAVE WITH 1 1/2" TYPE IVS
TROY, VT ROUTE 105	126+19.20	127+50	3'-0" - 11'-0" - 11'-0" - 3'-0"	1 1/2"	11	COLD PLANE 2", LEVEL AND PAVE WITH 1 1/2" TYPE IVS
TROY, VT ROUTE 105	127+50	129+25.44	VARIABLES - SEE PLAN	1 1/2"	15	COLD PLANE 2", LEVEL AND PAVE WITH 1 1/2" TYPE IVS



NOT TO SCALE

**PROJECT TYPICAL SHEET**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 14:01
PROJECT NUMBER: STP 2717(1)	DRAWN BY: STANTEC
FILE NAME: p07b198.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 48 OF 116
DESIGNED BY: STANTEC	
IPARM FILE: p07b198pts.i	

**NOTES**

- THE PAVEMENT WEARING COURSE SHALL BE SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TYPE IVS. THE ESTIMATED 1/2" LEVELING COURSE SHALL BE SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TYPE IVS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- EMULSIFIED ASPHALT, TYPE RS-1, SHALL BE APPLIED ON ALL EXISTING PAVEMENT SURFACES AND BETWEEN ALL COURSES OF PAVEMENT (NOT INCLUDING RECLAIMED SURFACES) AT THE RATE OF 0.025 GAL/SY OR AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT WILL BE UNDER ITEM 404.65, EMULSIFIED ASPHALT.
- SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = ±1/4". (TOTAL THICKNESS EXCLUDING LEVELING)
- THE PORTLAND CEMENT STABILIZED COLD MIX SHALL BE PRODUCED FROM THE COLD PLANE GRINDINGS GENERATED FROM THE PROJECT AND PAID FOR UNDER ITEM 900.675 SPECIAL PROVISION (COLD MIXED RECYCLED BITUMINOUS PAVEMENT, PORTLAND CEMENT), AND PLACED IN 2" LIFTS. IF THERE IS NOT A SUFFICIENT AMOUNT OF COLD PLANE GRINDINGS AVAILABLE TO PRODUCE THE 4" DEPTH OF PORTLAND CEMENT STABILIZED COLD MIX, THE CONTRACTOR SHALL OBTAIN COLD PLANE GRINDINGS FROM ANOTHER SOURCE. THE COST ASSOCIATED WITH PROVIDING ADDITIONAL COLD PLANE GRINDINGS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 900.675. ALL COLD PLANING PERFORMED WITHIN THE LIMITS OF THE PORTLAND CEMENT STABILIZED BASE SHALL BE CONSIDERED INCIDENTAL TO ITEM 900.675 SPECIAL PROVISION (COLD MIXED RECYCLED BITUMINOUS PAVEMENT, PORTLAND CEMENT). AN ESTIMATED QUANTITY OF ITEM 900.680 SPECIAL PROVISION (PORTLAND CEMENT FOR COLD MIXED RECYCLING) AT A QUANTITY OF 2% OF PORTLAND CEMENT FOR COLD MIXED RECYCLING, HAS BEEN INCLUDED.
- ITEM 415.25 EMULSIFIED ASPHALT, COLD MIX SHALL BE USED AS A LIQUID BINDER IN THE PORTLAND CEMENT STABILIZED COLD MIX AS DIRECTED BY THE RESIDENT ENGINEER. AN ESTIMATED QUANTITY OF EMULSIFIED ASPHALT AT A RATE OF 2.0 GAL/SY FOR FULL DEPTH OF 4" HAS BEEN INCLUDED IN THE PLANS.
- PRIOR TO RECLAIMING, ANY EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE RESIDENT ENGINEER WILL BE EXCAVATED TO THE DEPTH OF RECLAIMING OR AS DIRECTED BY THE RESIDENT ENGINEER. EXCAVATED MATERIAL WILL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM THE PROJECT AS DIRECTED BY THE RESIDENT ENGINEER. THIS WORK WILL BE PAID FOR USING THE APPROPRIATE RENTAL ITEMS. THE METHOD OF REMOVAL AND THE USE OF RENTAL ITEMS SHALL BE APPROVED BY THE RESIDENT ENGINEER PRIOR TO ANY WORK BEING DONE. MATERIAL REMOVED SHALL BE REPLACED WITH ITEM 301.40 SUBBASE, RAP. AN ADDITIONAL QUANTITY OF ITEM 301.40 SUBBASE, RAP HAS BEEN INCLUDED TO CORRECT SUPERELEVATION AND GRADATION DEFICIENCIES WITHIN THE RECLAIMED SECTION. AN ESTIMATED THICKNESS OF 2" HAS BEEN INCLUDED FOR THE ENTIRE RECLAIMED SURFACE AREA. IF THERE IS NOT A SUFFICIENT AMOUNT OF COLD PLANE GRINDINGS AVAILABLE TO COMPLETE THESE REPAIRS, THE CONTRACTOR SHALL OBTAIN COLD PLANE GRINDINGS FROM ANOTHER SOURCE. THE COST ASSOCIATED WITH PROVIDING ADDITIONAL COLD PLANE GRINDINGS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 301.40 SUBBASE, RAP.
- PRIOR TO PAVING IN COLD PLANE AREAS, ANY EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE RESIDENT ENGINEER SHALL BE EXCAVATED TO A DEPTH OF 3" OR AS DIRECTED BY THE RESIDENT ENGINEER. EXCAVATION WILL BE PAID FOR AS ALL PURPOSE EXCAVATOR RENTAL, TYPE I. MATERIAL REMOVED SHALL BE REPLACED WITH SUBBASE, RAP. EXCAVATED MATERIAL SHALL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM THE PROJECT AREA AS DIRECTED BY THE RESIDENT ENGINEER.
- COLD PLANING TO BE COMPLETED ACCORDING TO TYPICAL OR AS NOTED OTHERWISE ON THE PLANS. THE COLD PLANING AND PAVING SHALL MATCH THE EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AREAS BY THE USE OF A VERTICAL COLD PLANE JOINT. SEE DETAIL ON THIS SHEET.
- ALL EDGES OF PAVEMENT WITHIN THE COLD PLANE SECTION SHALL BE BACKED UP TO FULL HEIGHT WITH COLD PLANE GRINDINGS AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER ITEM 402.13 AGGREGATE SHOULDERS, RAP. ADDITIONAL MATERIAL REQUIRED AFTER THE COLD PLANE GRINDINGS HAVE BEEN USED WILL BE PAID FOR UNDER ITEM 402.12 AGGREGATE SHOULDERS.
- ESTIMATED QUANTITIES OF ITEMS 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I, ITEM 608.37 TRUCK RENTAL AND ITEM 608.40 LOADER RENTAL, TYPE I HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL END SECTION FLARES WITH EXCAVATED DITCHING MATERIAL. AN ESTIMATED QUANTITY OF 203.30 EARTH BORROW HAS BEEN INCLUDED IN THE CASE THAT THE DITCHING MATERIAL IS NOT SUITABLE TO USE IN THE GUARDRAIL END SECTION FLARE AREA. 25 CUBIC YARDS OF EARTH BORROW HAVE BEEN ESTIMATED FOR EACH NEW GUARDRAIL END SECTION FLARE. ITEM 653.20 TEMPORARY EROSION MATTING SHALL BE PLACED ON ALL SLOPES CREATED BY THE GUARDRAIL END SECTION FLARE. THE QUANTITIES INCLUDED REFLECT 25 SY OF ITEM 653.20 TEMPORARY EROSION MATTING FOR EACH NEW GUARDRAIL END SECTION FLARE.
- THE PROPOSED GUARDRAIL SHALL BE INSTALLED IN A LOCATION THAT MAXIMIZES THE DISTANCE FROM THE CENTER OF THE ROAD TO THE FACE OF GUARDRAIL AS DIRECTED BY THE RESIDENT ENGINEER.
- ALL DRIVES SHALL RECEIVE A PAVED APRON AS DIRECTED BY THE RESIDENT ENGINEER. SEE SHEET 54 FOR DETAILS AND PAYMENT PROVISIONS.

- ITEM 609.10 DUST CONTROL WITH WATER IS AN ESTIMATED QUANTITY TO BE USED AS DUST CONTROL ALONG THE RECLAIMED SECTION.
- STABILIZING AGENT FOR THE RECLAIMED STABILIZED BASE WILL BE PORTLAND CEMENT. PAYMENT WILL BE MADE UNDER ITEM 900.680 SPECIAL PROVISION (PORTLAND CEMENT FOR BASE STABILIZATION)
- 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 INCIDENTAL TO ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
- AN ESTIMATED QUANTITY OF ITEM 619.17 YIELDING MARKER POSTS HAS BEEN INCLUDED TO DELINEATE PIPE INLETS, PIPE OUTLETS AND DROP INLETS LOCATED OUTSIDE OF THE PAVEMENT SURFACE OR AS DIRECTED BY THE RESIDENT ENGINEER.
- STEEL BEAM GUARDRAIL WITH STEEL POSTS SHALL BE USED ON THIS PROJECT.

**RURAL AREAS - SEED MIXTURE**

% 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 TREFLOIL	98	85
5.0	3.0	ANNUAL RYEGRASS	95	85
100	60			

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

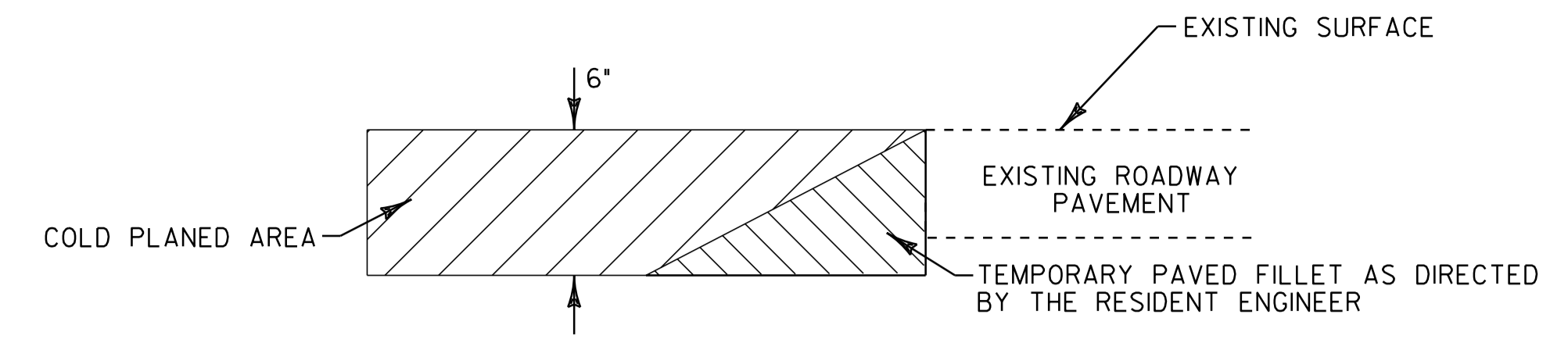
SEED:  
TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.

FERTILIZER:  
FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS/ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA.)

AGRICULTURAL LIMESTONE:  
TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE RESIDENT ENGINEER.

TEMPORARY EROSION MATTING (ITEM 653.20):  
TO BE PLACED ON EARTH SLOPES AS DIRECTED BY THE RESIDENT ENGINEER.

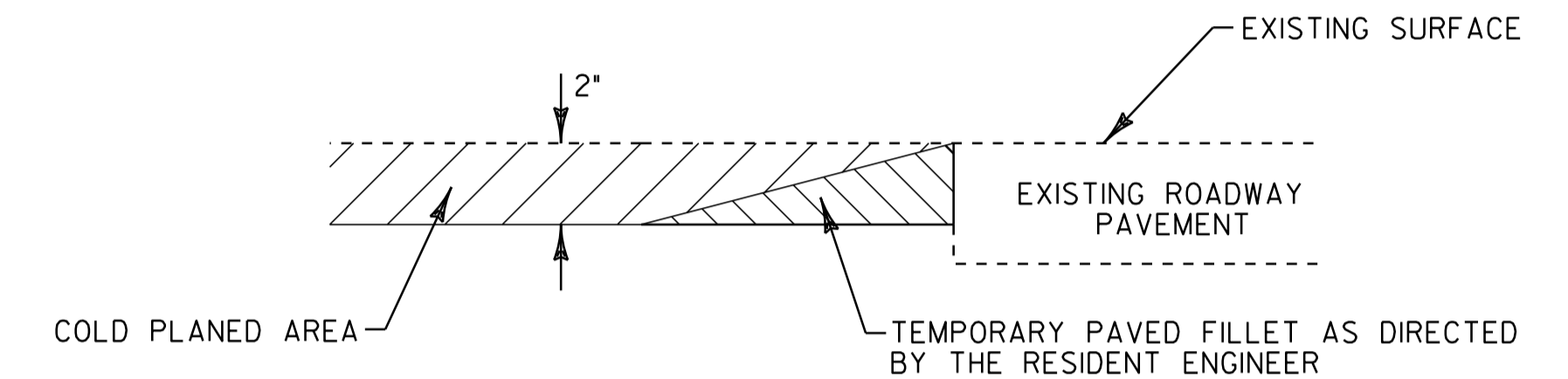
TOPSOIL:  
TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER.



**DETAIL AT VERTICAL COLD PLANE JOINTS (6" DEPTH)**

NOTE: THIS DETAIL SHALL BE USED AT THE LOCATIONS LISTED BELOW AND AT ALL DRIVES BETWEEN STA. 10+66.56 AND STA. 126+19.20 AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 210.10.

**FULL ROADWAY WIDTH**  
STA. 10+66.56 (BEGIN PROJECT)  
STA. 99+25.0, RT (VINCENT ROAD)

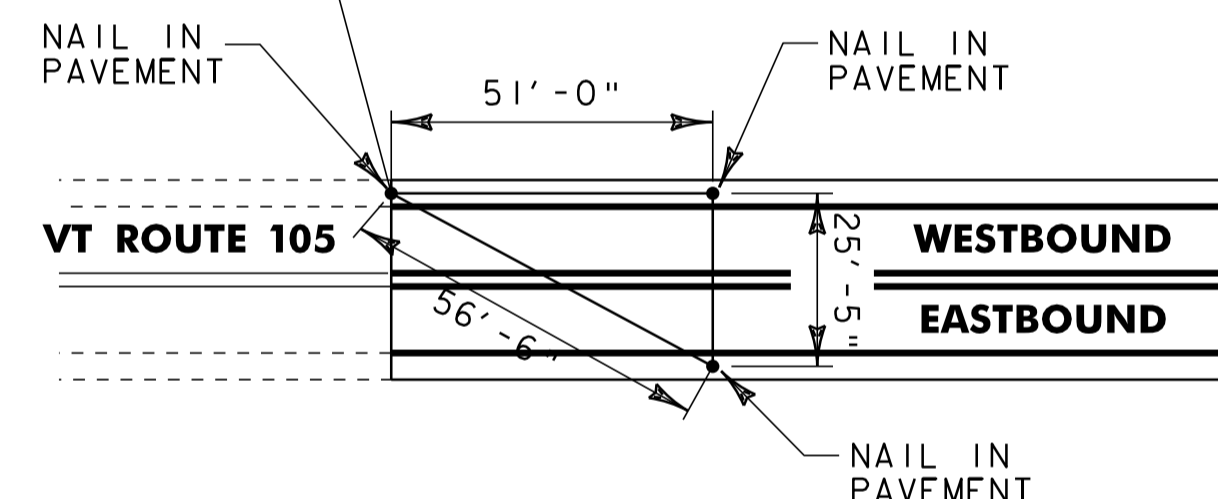


**DETAIL AT VERTICAL COLD PLANE JOINTS (2" DEPTH)**

NOTE: THIS DETAIL SHALL BE USED AT THE LOCATIONS LISTED BELOW AND AT ALL DRIVES BETWEEN STA. 10+66.56 AND STA. 23+23.20 AND BETWEEN 126+19.20 AND 129+25.44, AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 210.10.

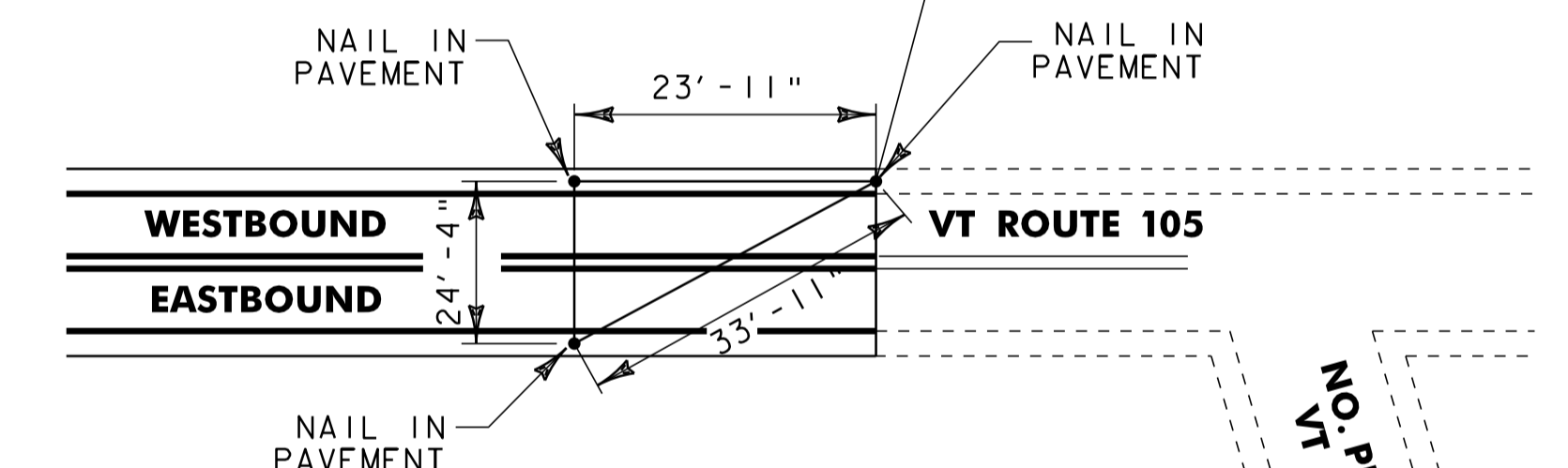
**FULL ROADWAY WIDTH**  
STA. 129+25.44 (END PROJECT)

BEGIN STP 2717 (I)  
TROY VT ROUTE 105  
MM 0.202 = STA. 10+66.56



**BEGIN PROJECT LOCATION TIES**

END STP 2717 (I)  
TROY VT ROUTE 105  
MM 2.448 = STA. 129+25.44

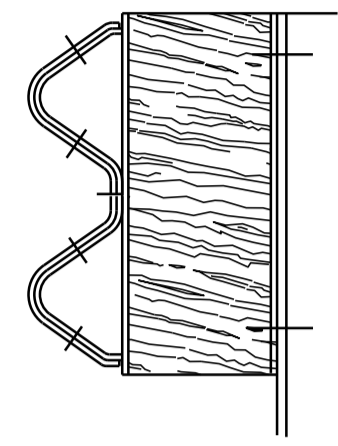


**END PROJECT LOCATION TIES**

NO. PRESENT ST. VT ROUTE 105.

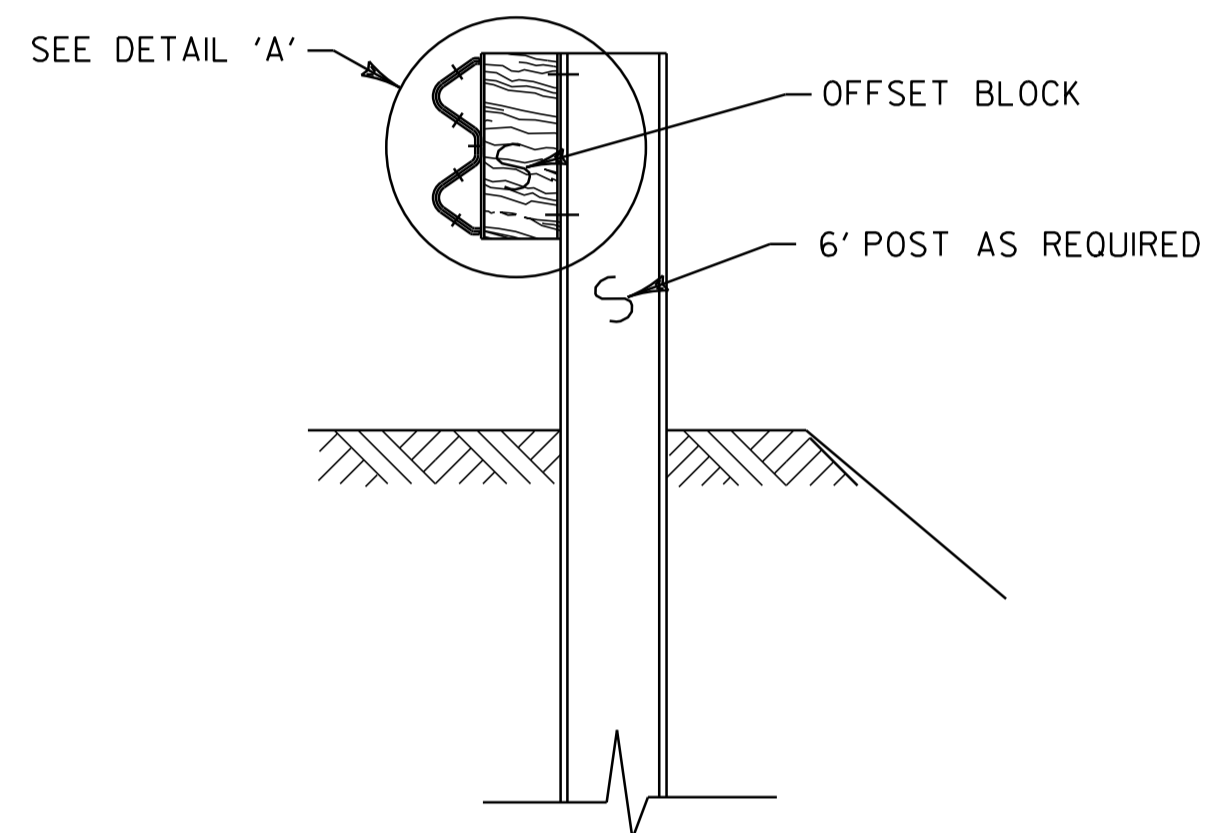


NOT TO SCALE	
<b>MISCELLANEOUS DETAILS AND NOTES SHEET</b>	PROJECT NAME: TROY
	PROJECT NUMBER: STP 2717(I)
FILE NAME: p07b198.dgn	PLOT DATE: 25-OCT-2011 14:01
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p07b198md.i	SHEET 49 OF 116

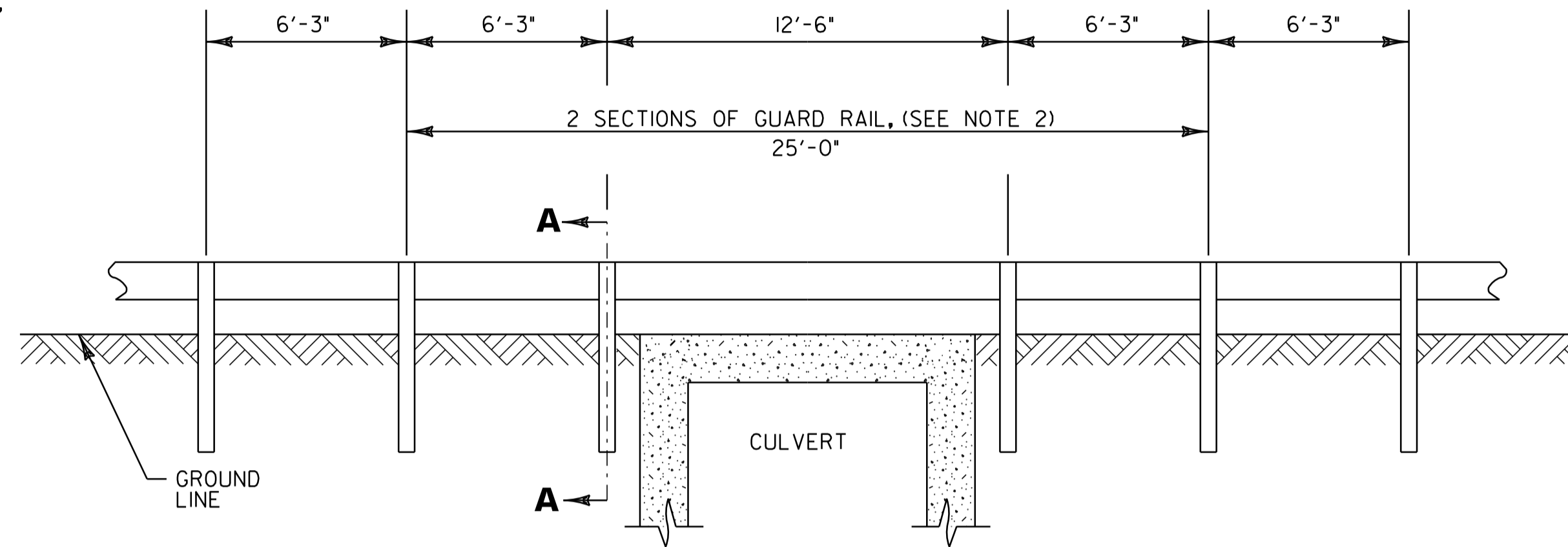


2 SECTIONS OF STEEL BEAM GUARD RAIL,  
GALVANIZED/NESTED OR HD STEEL BEAM GUARD RAIL,  
GALVANIZED/NESTED (ONE SECTION INSIDE THE OTHER)

**DETAIL A**



**SECTION A-A**



**DETAIL OF STEEL BEAM GUARD  
RAIL AT LARGE CULVERTS (BRIDGE #53)**

VT ROUTE 105, TROY STA. 27+36, RT (ITEM 62L206)  
VT ROUTE 105, TROY STA. 27+44, LT (ITEM 62L216)

**NOTES:**

1. SEE VAOT STANDARDS G-1 & G-1d FOR STEEL BEAM GUARD RAIL DETAILS
2. THIS WORK SHALL BE PAID UNDER ITEM 62L206, STEEL BEAM GUARDRAIL, GALVANIZED/NESTED FOR THE RIGHT SIDE, AND ITEM 62L216, HD STEEL BEAM GUARDRAIL, GALVANIZED/NESTED FOR THE LEFT SIDE.
3. THIS DETAIL TO BE USED AS INDICATED ON THE ITEM DETAIL SUMMARY SHEET OR AS DIRECTED BY THE RESIDENT ENGINEER.

THIS DETAIL WAS NOT NEEDED OR  
USED FOR THIS PROJECT.

NOT TO SCALE



**GUARDRAIL  
DETAIL SHEET**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 4:01
PROJECT NUMBER: STP 2717(I)	DRAWN BY: STANTEC
FILE NAME: p07b198.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 50 OF 116
DESIGNED BY: STANTEC	
<b>IPARM FILE: p07b198gcds.i</b>	

# QUANTITY SHEET 1

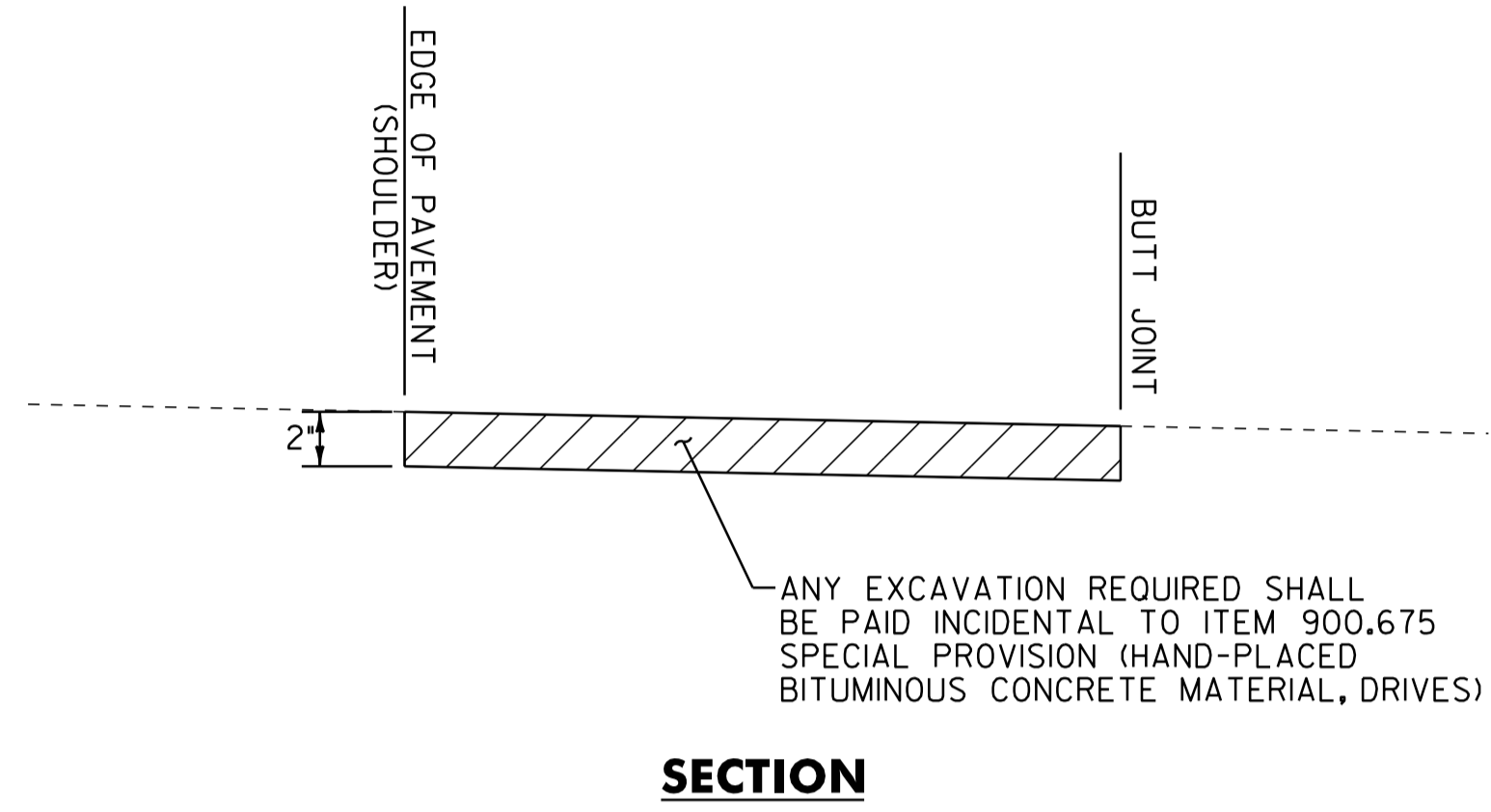
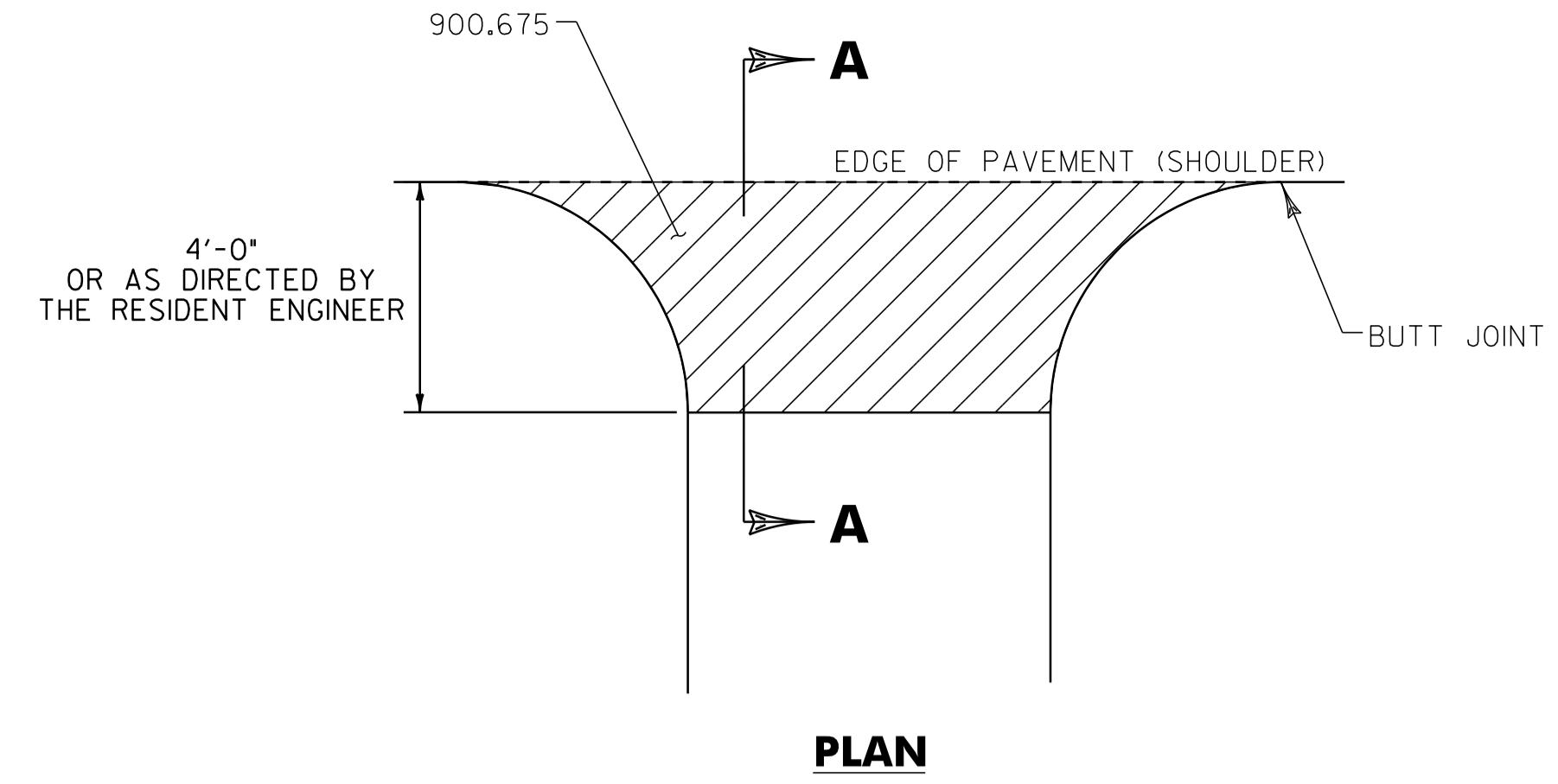
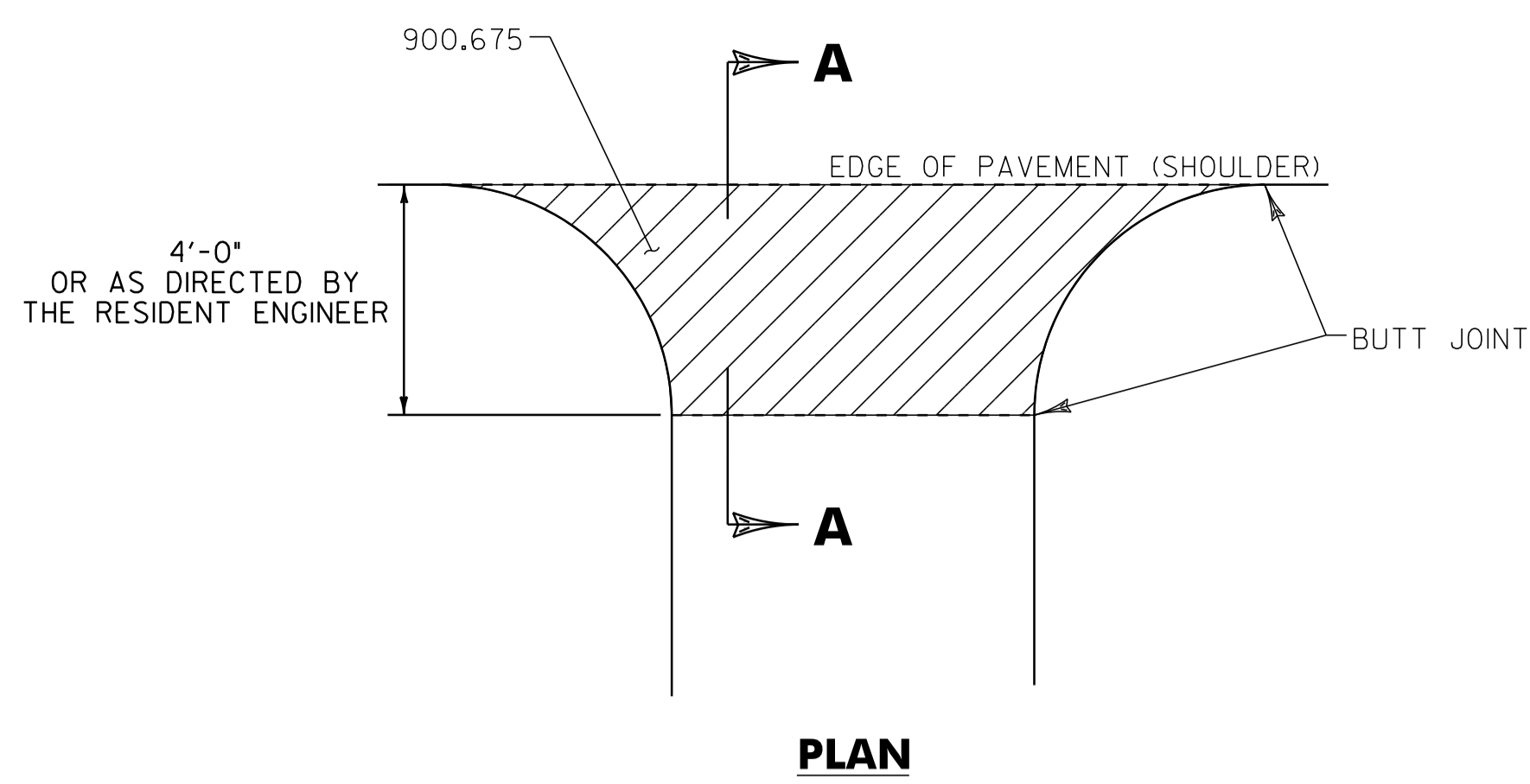
SUMMARY OF ESTIMATED QUANTITIES				TOTALS		DESCRIPTORS		
ROADWAY	EROSION CONTROL	FULL C. E.	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NO.	ROUND
100			100		CY	EARTH BORROW	203.30	-
1			1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-
950			950		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	17
3930			3930		TON	SUBBASE, RAP	301.40	4
1150			1150		TON	AGGREGATE SHOULDERS	402.12	13
1245			1245		TON	AGGREGATE SHOULDERS, RAP	402.13	4
4			4		CWT	EMULSIFIED ASPHALT	404.65	0.1
1			1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	EST.
5870			5870		CWT	EMULSIFIED ASPHALT, COLD MIX	415.25	4
						BEGIN OPTION AA		
4200			4200		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (0% RAP CONTENT)	490.30	168
4200			4200		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (0% < RAP CONTENT < 15.0%)	490.30	168
4200			4200		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (15.0% <= RAP CONTENT < 25.0%)	490.30	168
4200			4200		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (25.0% <= RAP CONTENT <= 50.0%)	490.30	168
						END OPTION AA		
1			1		LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	EST.
1			1		LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	490.32	EST.
1			1		LU	SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.) (NON-LIMITED ACCESS HIGHWAY)	490.33	EST.
1			1		LU	LONGITUDINAL JOINT COMPACTION PAY ADJUSTMENT (N.A.B.I.)	490.34	EST.
60			60		HR	POWER GRADER RENTAL	608.15	EST.
60			60		HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST.
40			40		HR	POWER BROOM RENTAL, TYPE I	608.30	EST.
60			60		HR	POWER BROOM RENTAL, TYPE II	608.31	EST.
60			60		HR	TRUCK RENTAL	608.37	EST.
60			60		HR	LOADER RENTAL, TYPE I	608.40	EST.
2			2		MGAL	DUST CONTROL WITH WATER	609.10	0.4
	1460		1460		CY	STONE FILL, TYPE I	613.10	5
1			1		EACH	RELOCATE MAILBOX, SINGLE SUPPORT	617.10	-
22			22		EACH	YIELDING MARKER POSTS	619.17	-
62.5			62.5		LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	-
25			25		LF	STEEL BEAM GUARDRAIL, GALVANIZED/NESTED	621.206	-
75			75		LF	HD STEEL BEAM GUARDRAIL, GALVANIZED/NESTED	621.216	-
4			4		EACH	MANUFACTURED TERMINAL SECTION, FLARED	621.50	-
252			252		LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	-
880			880		HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.
2640			2640		HR	FLAGGERS	630.15	EST.
		0.25	0.25		LS	FIELD OFFICE, ENGINEERS	631.10	EST.

DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS
		COLD PLANING - BITUMINOUS PAVEMENT
933	SY	MAINLINE
17	SY	ROUNDING
950	SY	TOTAL
		SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
3015	TON	MAINLINE WEARING COURSE (TYPE IVS)
8	TON	SIDE ROAD WEARING COURSE (TYPE IVS)
1009	TON	LEVELING (TYPE IVS)
168	TON	ROUNDING
4200	TON	TOTAL
		TEMPORARY EROSION MATTING
1253	SY	DITCH CLEANING
100	SY	M.T.S. FLARED CONSTRUCTION
2420	SY	SEED PROTECTION
27	SY	ROUNDING
3800	SY	TOTAL

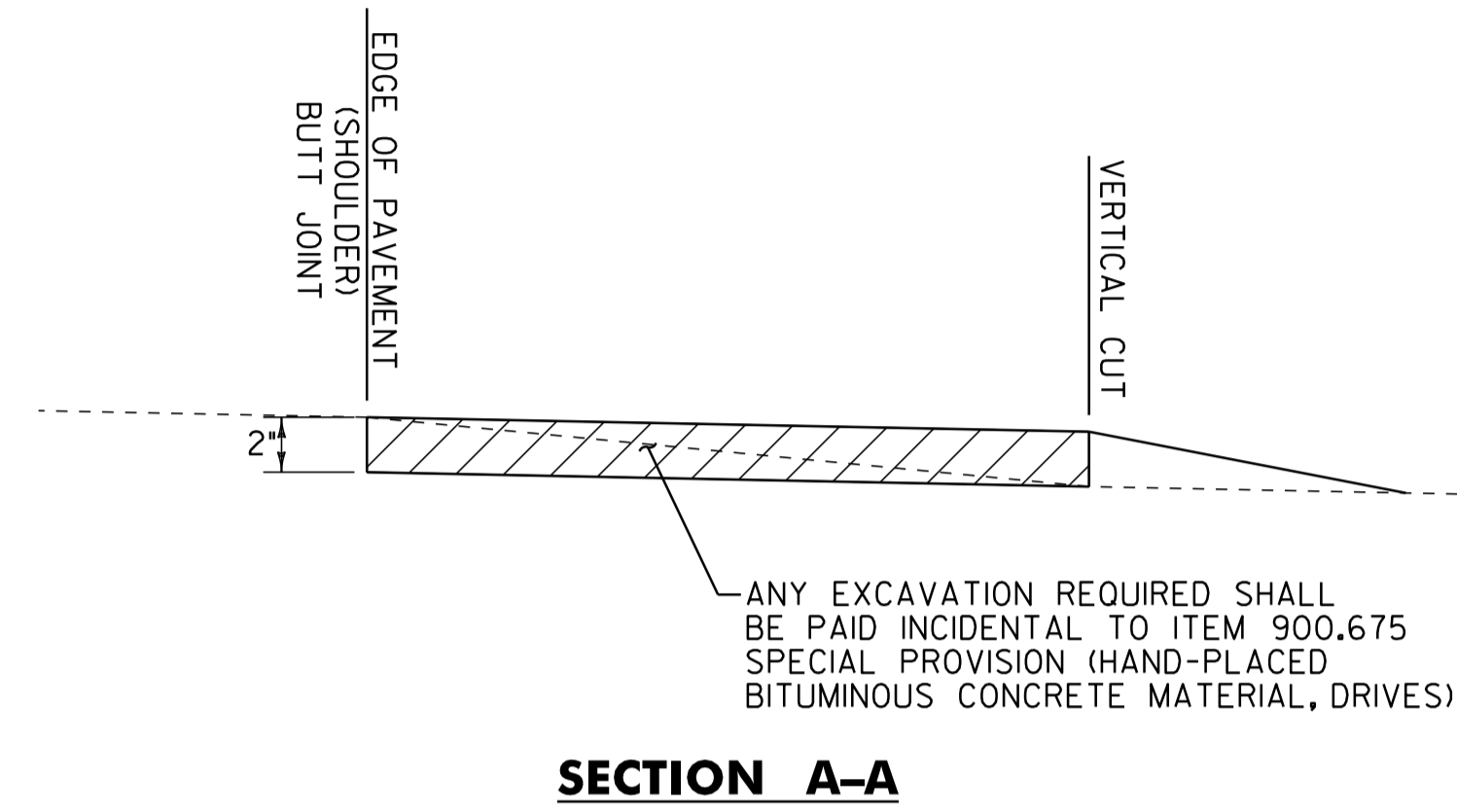
PROJECT NAME: TROY  
 PROJECT NUMBER: STP 2717(I)  
 FILE NAME: p07b198.dgn PLOT DATE: 25-OCT-2011 14:01  
 PROJECT LEADER: JLL DRAWN BY: STANTEC  
 DESIGNED BY: MCF CHECKED BY: JLL  
**IPARM FILE: p07b198qs01.i** SHEET 51 OF 116







**HANDWORK DETAILS FOR PAVED DRIVES**

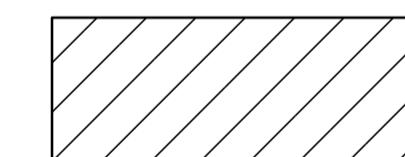


**HANDWORK DETAILS FOR GRAVEL DRIVES**

**NOTES:**

- PAVING LIFT SHALL BE A MINIMUM OF 1 1/2" AND A MAXIMUM OF 2".
- THE COST OF PROVIDING AND PLACING SUBBASE MATERIAL, CLEANING EXISTING PAVED SURFACES, INCLUDING POWER EQUIPMENT, AND FOR FILLING JOINTS, CRACKS AND HOLES WILL NOT BE PAID DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES).
- EXCAVATION NEEDED TO ACHIEVE PROPER DRIVE SLOPES WILL NOT BE PAID DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES).

**LEGEND**

 ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)

STATION	POSITION	QUANTITY (SY)
<b>STP 2717(I)</b>		
<b>VT ROUTE 105</b>		
13+65	LT	15
14+34	RT	15
18+89	RT	13
26+43	LT	15
28+39	RT	25
28+50	LT	12
29+30	RT	7
30+15	LT	15
32+98	RT	4
37+78	LT	12
40+75	LT	7
44+59	LT	8
48+75	LT	6
52+43	LT	8
53+80	RT	6
59+51	LT	6
60+09	RT	12
63+87	RT	6
67+06	RT	8
73+65	LT	7
82+75	LT	13
87+87	RT	12
91+17	RT	22

STATION	POSITION	QUANTITY (SY)
93+59	LT	14
99+76	LT	8
100+44	LT	9
102+28	LT	7
104+26	LT	7
107+38	LT	13
109+35	LT	12
112+26	LT	10
115+12	RT	8
115+12	LT	6
115+77	LT	11
117+27	LT	10
117+28	RT	14
119+56	LT	9
119+92	LT	8
120+86	LT	8
123+85	LT	11
124+79	LT	11
128+14	LT	12
129+05	LT	7
SUBTOTAL		449
ROUNDING		1
TOTAL		450



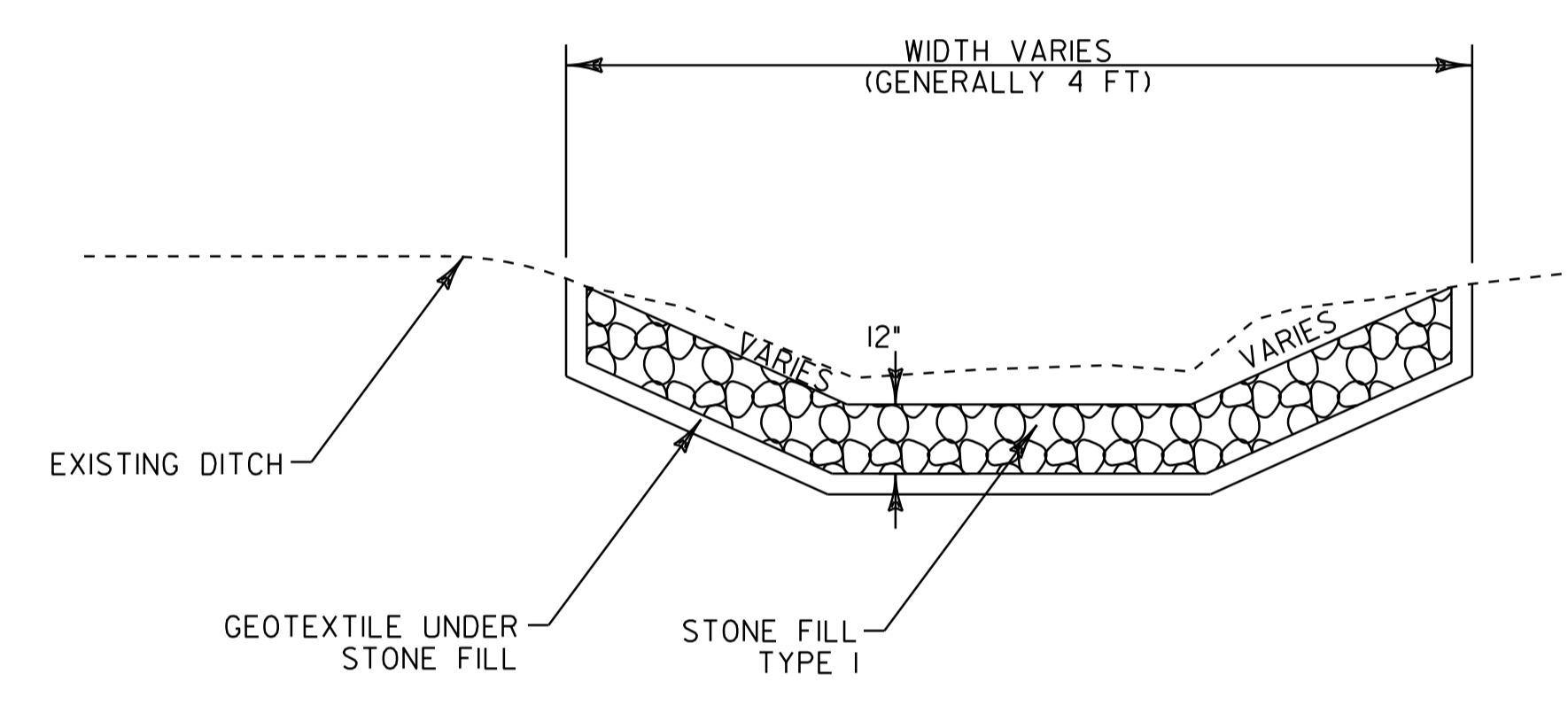
NOT TO SCALE

**DRIVE  
DETAIL  
SHEET**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 4:01
PROJECT NUMBER: STP 2717(I)	DRAWN BY: STANTEC
FILE NAME: p07b198.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 54 OF 116
DESIGNED BY: STANTEC	
<b>IPARM FILE: p07b198ds.i</b>	

LOCATION				FEET OF DITCHING			MISC. ITEMS			REMARKS
SITE	STATION	STATION	POS.	PERCENT GRADE			613.10	649.31	653.20	
				0-1	1-2.5	2.5-10	STONE FILL TYP. 1	GEOT. UNDER STONE FILL	TEMP. EROS. MATT.	
							CY	SY	SY	
VT ROUTE 105							CY	SY	SY	
TROY										
1	11+09	14+50	RT&LT			341	51	227		
2	14+50	21+50	RT&LT			700	467	467		
3	21+50	26+40	RT&LT		490				218	
4	26+40	31+68	RT&LT		528				235	
5	31+68	36+96	RT&LT	528						
6	36+96	42+24	RT		528	78	352			
7	36+96	44+00	LT		704	104	469			
8	44+00	47+52	LT		352	52	235			
9	47+52	52+80	LT		530				236	
10	52+80	58+08	LT	528						
11	58+08	68+64	LT		1056	156	704			
12	68+64	73+92	LT		528				235	
13	73+92	84+48	LT	1056						
14	84+48	89+76	LT		528	78	352			
15	89+76	121+44	RT		3168	469	2112			
16	121+44	126+72	RT		528				235	
17	126+72	128+83	RT		211				94	
PROJECT SUBTOTALS (EST.)				2112	2815	7377	1455	4918	1253	
ROUNDING				-	-	-	5	32	-	
PROJECT TOTALS				2112	2815	7377	1460	4950	1253	

LOCATION				FEET OF DITCHING			MISC. ITEMS			REMARKS
SITE	STATION	STATION	POS.	PERCENT GRADE			613.10	649.31	653.20	
				0-1	1-2.5	2.5-10	STONE FILL TYP. 1	GEOT. UNDER STONE FILL	TEMP. EROS. MATT.	
							CY	SY	SY	
							CY	SY	SY	



**DITCH DETAIL**

NOTES:

- PIPE INLET AND OUTLET AREAS, AND DITCH CLEANING THROUGH PROJECT, SHALL BE PERFORMED AT LOCATIONS INDICATED ON THIS SHEET AND AS DIRECTED BY THE VAOT RESIDENT ENGINEER. PAYMENT WILL BE UNDER THE APPLICABLE EQUIPMENT RENTAL ITEM(S).
- ESTIMATED QUANTITIES OF TEMPORARY EROSION MATTING, SEED, AND STONE FILL TYPE I HAVE BEEN INCLUDED. DITCHES WITH A GRADE LESS THAN 1 PERCENT SHALL BE SEEDED. TEMPORARY EROSION MATTING SHALL BE USED IN ALL DITCHES WITH A GRADE BETWEEN 1 AND 2.5 PERCENT. STONE FILL, TYPE I SHALL BE USED IN ALL DITCHES WITH A GRADE BETWEEN 2.5 AND 10 PERCENT OR AS DIRECTED BY THE VAOT RESIDENT ENGINEER.



**DITCH CLEANING  
DETAIL SHEET**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 14:01
PROJECT NUMBER: STP 2717(1)	DRAWN BY: STANTEC
FILE NAME: p07b198.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 55 OF 116
DESIGNED BY: STANTEC	
<b>IPARM FILE: p07b198dcs.i</b>	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 10+67 TO 14+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 10+67 TO 13+73, DASHED LT & SOLID RT  
 STA. 13+73 TO 14+50, SOLID LT & RT

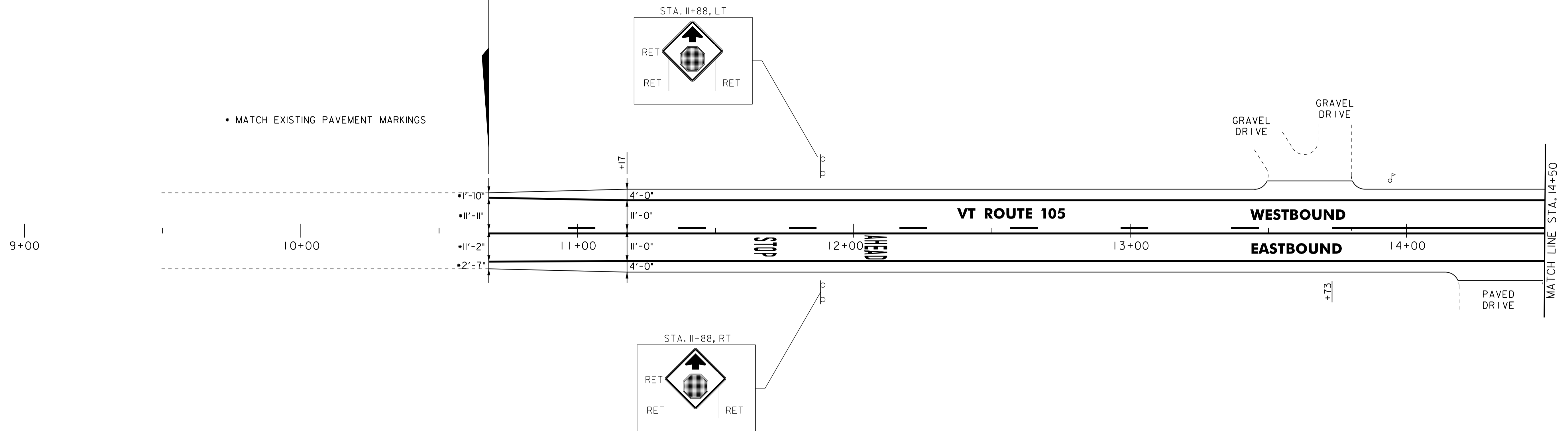
646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC  
 STA. 11+68, RT - "STOP"  
 STA. 12+08, RT - "AHEAD"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 10+67 TO 14+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 10+67 TO 13+73, DASHED LT & SOLID RT  
 STA. 13+73 TO 14+50, SOLID LT & RT

646.692 TEMPORARY LETTER OR SYMBOL, PAINT  
 STA. 11+68, RT - "STOP"  
 STA. 12+08, RT - "AHEAD"

**BEGIN STP 2717(1) VT ROUTE 105  
 TROY STA. 10+66.56=MM 0.202**



UTILITY LEGEND	
	= EXISTING HYDRANT
	= EXISTING DI
	= EXISTING MANHOLE
	= EXISTING TELEPHONE MANHOLE
	= EXISTING ELECTRIC MANHOLE
	= EXISTING SEWER MANHOLE
	= EXISTING WATER SHUTOFF
	= EXISTING GAS SHUTOFF
	= EXISTING MAILBOX
	= EXISTING POWER POLE
	= EXISTING TELEPHONE POLE
	= EXISTING UTILITY POLE
	= EXISTING SIGNAL HEAD
	= EXISTING PULL BOX
	= EXISTING VEHICLE DETECTOR LOOP
	= EXISTING GUARDRAIL
	= EXISTING RAILROAD

SIGN LEGEND	
N	= NEW
R	= REMOVE
R&S	= REMOVE & SALVAGE
S	= SALVAGE SIGN
RET	= RETAIN
B-B	= BACK TO BACK
	= RETURN TO VAOT DISTRICT 9



**PROJECT LAYOUT SHEET #1**

NOTE:  
 ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.

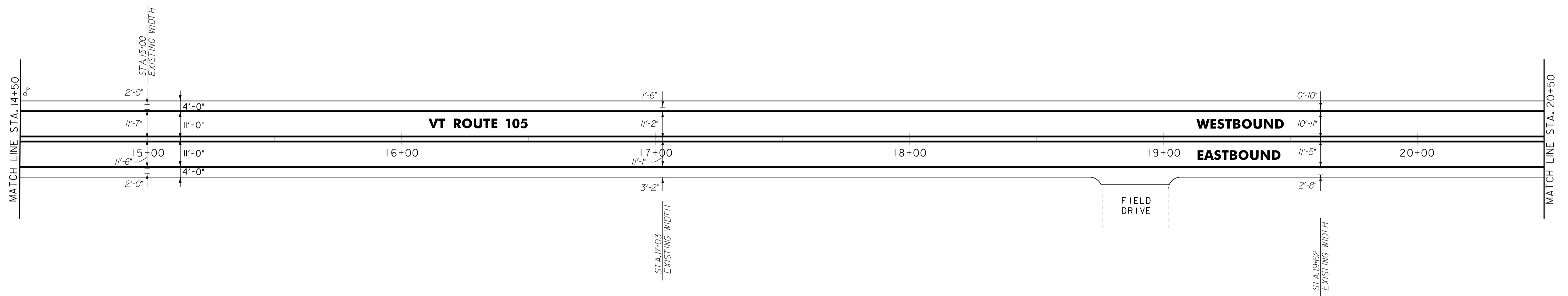
PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 14:01
PROJECT NUMBER: STP 2717(1)	DRAWN BY: STANTEC
FILE NAME: p07b198.dgn	CHECKED BY: JLL
DESIGNED BY: STANTEC	SHEET 56 OF 116
IPARM FILE: p07b198i01.i	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 14+50 TO 20+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 14+50 TO 20+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 14+50 TO 20+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 14+50 TO 20+50, SOLID LT & RT



- NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1

NOT TO SCALE



**PROJECT  
 LAYOUT  
 SHEET #2**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 4:01
PROJECT NUMBER: STP 2717(1)	DRAWN BY: STANTEC
FILE NAME: p07b198.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 57 OF 116
DESIGNED BY: STANTEC	
<b>IPARM FILE: p07b198102.i</b>	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 20+50 TO 25+50, SOLID LT & RT  
 (INCLUDING EDGE LINE BREAKS FOR TOWN HIGHWAYS)

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 20+50 TO 25+50, SOLID LT & RT  
 (INCLUDING  $\frac{1}{4}$  BREAKS FOR TOWN HIGHWAYS)

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC  
 STA. 22+31, RT

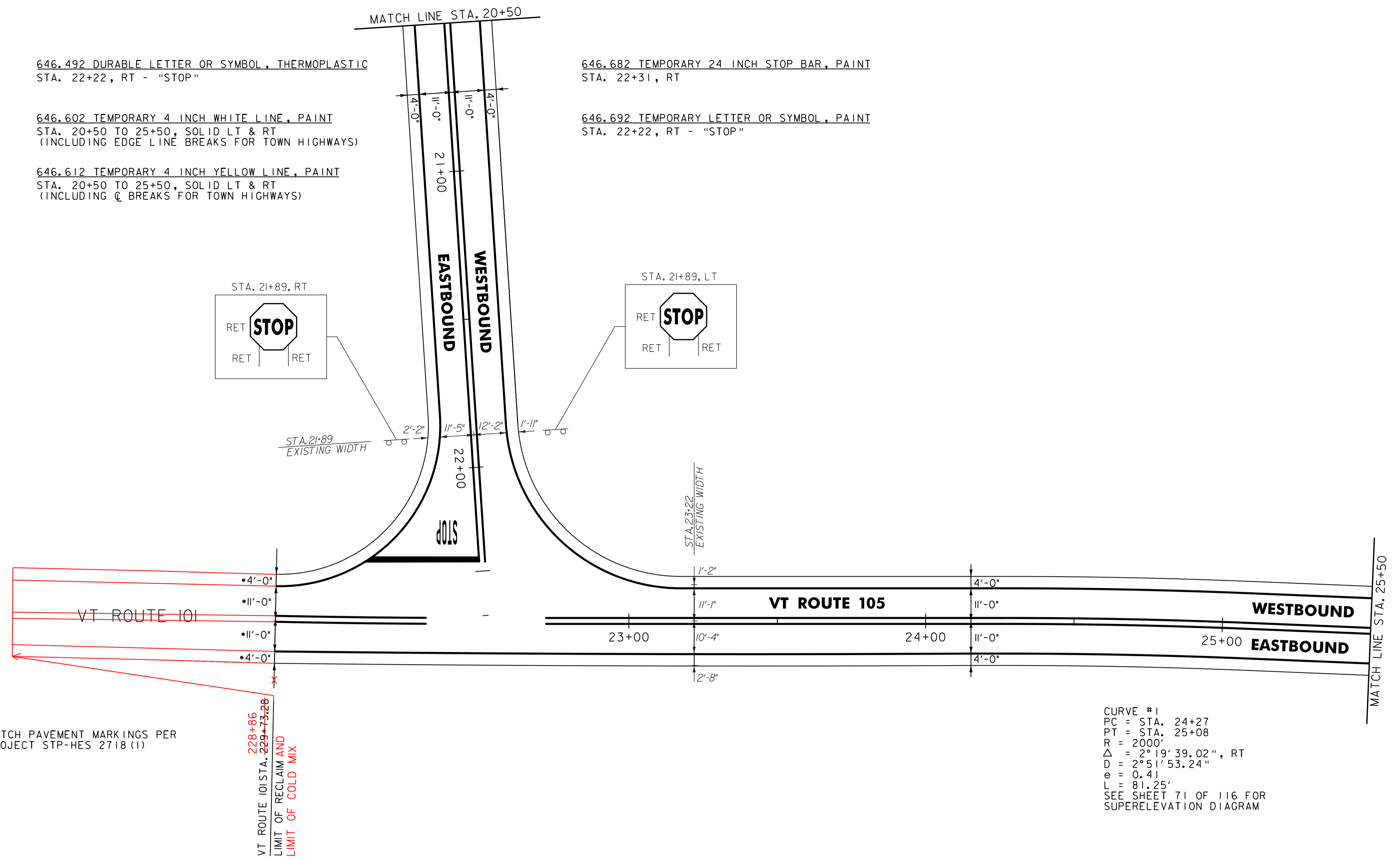
646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC  
 STA. 22+22, RT - "STOP"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 20+50 TO 25+50, SOLID LT & RT  
 (INCLUDING EDGE LINE BREAKS FOR TOWN HIGHWAYS)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 20+50 TO 25+50, SOLID LT & RT  
 (INCLUDING  $\frac{1}{4}$  BREAKS FOR TOWN HIGHWAYS)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT  
 STA. 22+31, RT

646.692 TEMPORARY LETTER OR SYMBOL, PAINT  
 STA. 22+22, RT - "STOP"



\* MATCH PAVEMENT MARKINGS PER  
 PROJECT STP-HES 2718 (1)

228+86  
 229+73.28  
 VT ROUTE 101 STA.  
 LIMIT OF RECLAIM AND  
 LIMIT OF COLD MIX

CURVE #1  
 PC = STA. 24+27  
 PT = STA. 25+08  
 R = 2000'  
 $\Delta$  = 2° 19' 39.02", RT  
 D = 2° 51' 53.24"  
 e = 0.41  
 L = 81.25'  
 SEE SHEET 71 OF 116 FOR  
 SUPERELEVATION DIAGRAM

- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
  2. FOR LEGENDS, SEE LAYOUT SHEET #1

NOT TO SCALE



**PROJECT  
 LAYOUT  
 SHEET #3**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 4:01
PROJECT NUMBER: STP 2717(1)	DRAWN BY: STANTEC
FILE NAME: p07b198.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 58 OF 116
DESIGNED BY: STANTEC	
IPARM FILE: p07b198i03.i	

617.10 RELOCATE MAILBOX, SINGLE SUPPORT  
STA. 26+69, LT

621.20 STEEL BEAM GUARDRAIL, GALVANIZED  
STA. ~~26+68~~ TO ~~27+18~~, RT ~~27+47.5~~ - ~~27+97.5~~ LT  
STA. ~~27+43~~ TO ~~27+55.5~~, RT ~~26+68~~ - ~~27+55~~ RT  
(SEE GUARDRAIL DETAIL SHEET)

~~621.206 STEEL BEAM GUARDRAIL, GALVANIZED/NESTED~~  
~~STA. 27+18 TO 27+43, RT~~  
~~(SEE GUARDRAIL DETAIL SHEET)~~

~~621.216 HD STEEL BEAM GUARDRAIL, GALVANIZED/NESTED~~  
~~STA. 27+11 TO 27+86, LT~~  
~~(SEE GUARDRAIL DETAIL SHEET)~~

621.50 MANUFACTURED TERMINAL SECTION, FLARED  
STA. 26+30.5 TO 26+68, RT  
STA. ~~26+73.5~~ TO ~~27+11~~, LT ~~27+10~~ - ~~27+47.5~~ LT  
STA. 27+55.5 TO 27+93, RT  
STA. ~~27+86~~ TO ~~28+23.5~~, LT ~~27+97.5~~ - ~~28+35~~ LT

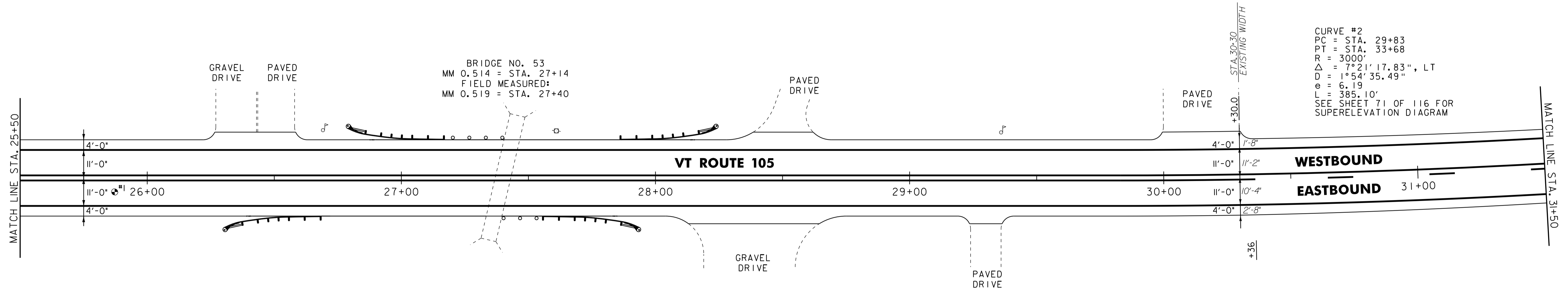
621.80 REMOVAL AND DISPOSAL OF GUARDRAIL  
STA. 26+31 TO 27+93, RT  
STA. 27+16 TO 28+06, LT

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
STA. 25+50 TO 31+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
STA. 25+50 TO 30+36, SOLID LT & RT  
STA. 30+36 TO 31+50, SOLID LT, DASHED RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
STA. 25+50 TO 31+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
STA. 25+50 TO 30+36, SOLID LT & RT  
STA. 30+36 TO 31+50, SOLID LT, DASHED RT



- NOTES:  
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
2. FOR LEGENDS, SEE LAYOUT SHEET #1

PAVEMENT CORES =  $\odot$

#	TOTAL DEPTH (INCH)	PCC	COMMENTS
1	8	NO	RECENTLY LEVELED



NOT TO SCALE

**PROJECT LAYOUT SHEET #4**

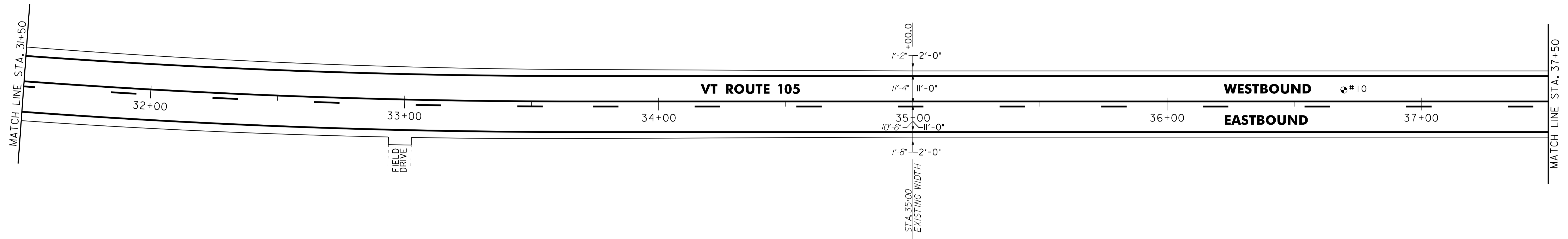
PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 4:01
PROJECT NUMBER: STP 2717(1)	DRAWN BY: STANTEC
FILE NAME: p07b198.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 59 OF 116
DESIGNED BY: STANTEC	
IPARM FILE: p07b198i04.i	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
STA. 31+50 TO 37+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
STA. 31+50 TO 37+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
STA. 31+50 TO 37+50, SOLID LT, DASHED RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
STA. 31+50 TO 37+50, SOLID LT, DASHED RT



PAVEMENT CORES =

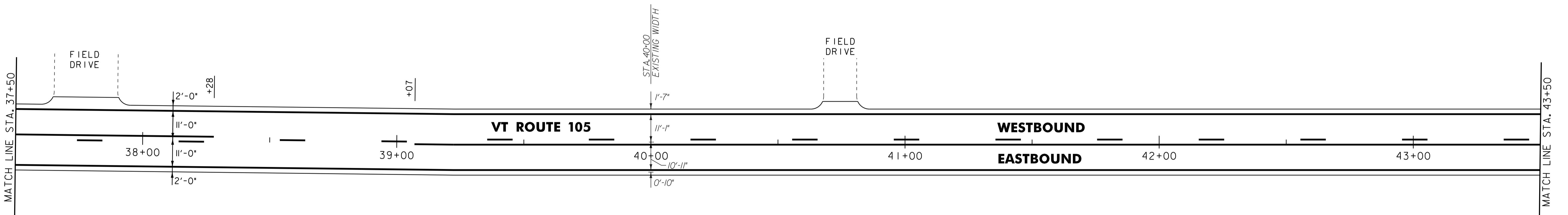
#	TOTAL DEPTH (INCH)	PCC	COMMENTS
10	9"	NO	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
STA. 37+50 TO 43+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
STA. 37+50 TO 43+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
STA. 37+50 TO 38+28, SOLID LT, DASHED RT  
STA. 38+28 TO 39+07, DASHED LT  
STA. 39+07 TO 43+50, DASHED LT, SOLID RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
STA. 37+50 TO 38+28, SOLID LT, DASHED RT  
STA. 38+28 TO 39+07, DASHED LT  
STA. 39+07 TO 43+50, DASHED LT, SOLID RT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
  2. FOR LEGENDS, SEE LAYOUT SHEET #1



NOT TO SCALE

**PROJECT LAYOUT SHEET #5**

PROJECT NAME: TROY  
PROJECT NUMBER: STP 2717(1)

FILE NAME: p07b198.dgn  
PROJECT LEADER: JLL  
DESIGNED BY: STANTEC  
IPARM FILE: p07b198i05.i

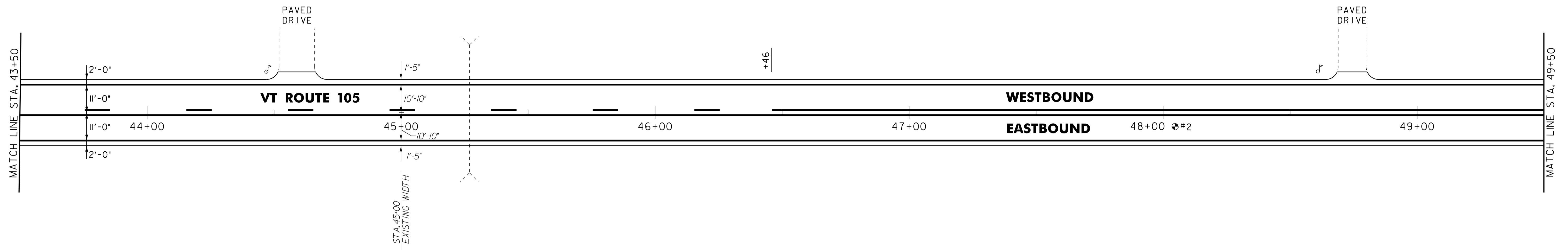
PLOT DATE: 25-OCT-2011 4:01  
DRAWN BY: STANTEC  
CHECKED BY: JLL  
SHEET 60 OF 116

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 43+50 TO 49+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 43+50 TO 49+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 43+50 TO 46+46, DASHED LT, SOLID RT  
 STA. 46+46 TO 49+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 43+50 TO 46+46, DASHED LT, SOLID RT  
 STA. 46+46 TO 49+50, SOLID LT & RT



PAVEMENT CORES = ④

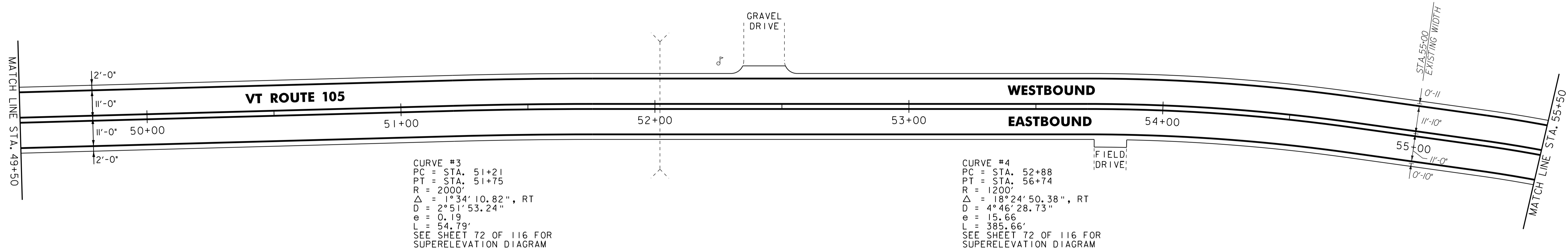
* TOTAL DEPTH (INCH)	PCC	COMMENTS
2 11/2"	NO	RECENTLY LEVELED

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 49+50 TO 55+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 49+50 TO 55+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 49+50 TO 55+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 49+50 TO 55+50, SOLID LT & RT



CURVE #3  
 PC = STA. 51+21  
 PT = STA. 51+75  
 R = 2000'  
 $\Delta = 1^{\circ}34'10.82''$ , RT  
 D =  $2^{\circ}51'53.24''$   
 e = 0.19  
 L = 54.79'  
 SEE SHEET 72 OF 116 FOR SUPERELEVATION DIAGRAM

CURVE #4  
 PC = STA. 52+88  
 PT = STA. 56+74  
 R = 1200'  
 $\Delta = 18^{\circ}24'50.38''$ , RT  
 D =  $4^{\circ}46'28.73''$   
 e = 15.66  
 L = 385.66'  
 SEE SHEET 72 OF 116 FOR SUPERELEVATION DIAGRAM

- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
  2. FOR LEGENDS, SEE LAYOUT SHEET #1



**PROJECT LAYOUT SHEET #6**

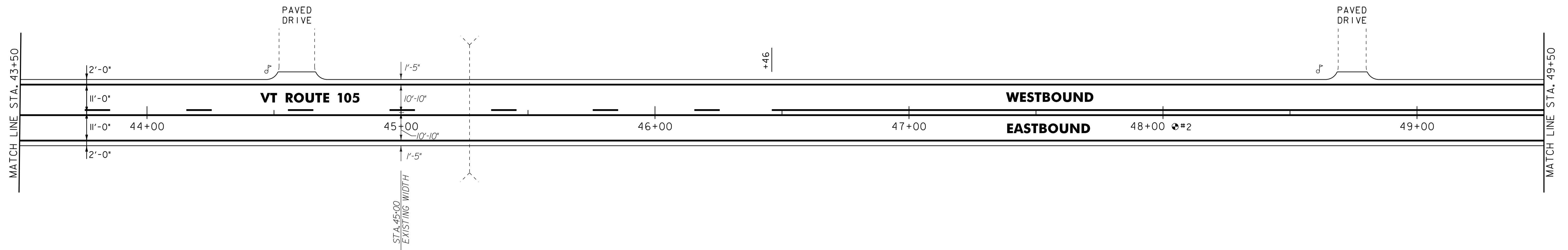
PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 14:01
PROJECT NUMBER: STP 2717(1)	DRAWN BY: STANTEC
FILE NAME: p07b198.dgn	CHECKED BY: JLL
DESIGNED BY: STANTEC	SHEET 61 OF 116
IPARM FILE: p07b198i06.i	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 43+50 TO 49+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 43+50 TO 49+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 43+50 TO 46+46, DASHED LT, SOLID RT  
 STA. 46+46 TO 49+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 43+50 TO 46+46, DASHED LT, SOLID RT  
 STA. 46+46 TO 49+50, SOLID LT & RT



PAVEMENT CORES = ④

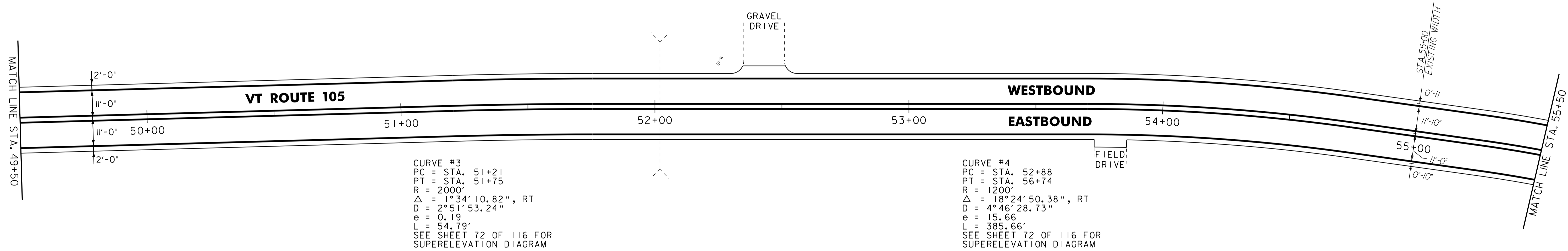
* TOTAL DEPTH (INCH)	PCC	COMMENTS
2 11/2"	NO	RECENTLY LEVELED

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 49+50 TO 55+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 49+50 TO 55+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 49+50 TO 55+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 49+50 TO 55+50, SOLID LT & RT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
  2. FOR LEGENDS, SEE LAYOUT SHEET #1



**PROJECT LAYOUT SHEET #6**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 14:01
PROJECT NUMBER: STP 2717(1)	DRAWN BY: STANTEC
FILE NAME: p07b198.dgn	CHECKED BY: JLL
DESIGNED BY: STANTEC	SHEET 61 OF 116
IPARM FILE: p07b198i06.i	

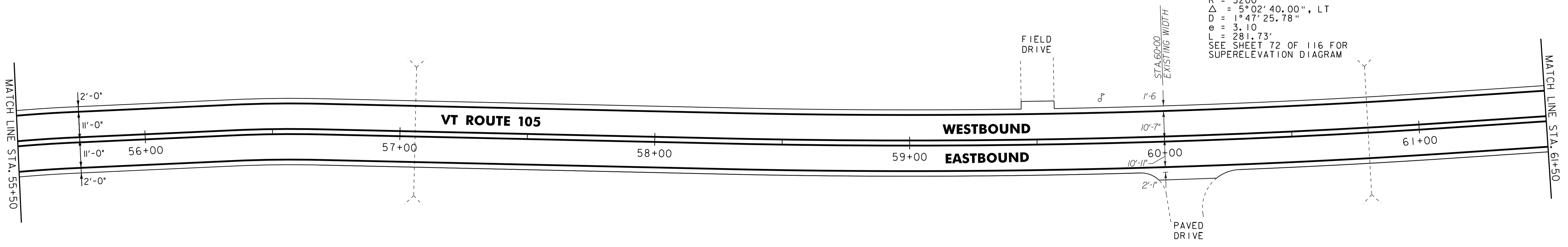
646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 55+50 TO 61+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 55+50 TO 61+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 55+50 TO 61+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 55+50 TO 61+50, SOLID LT & RT

CURVE #5  
 PC = STA. 58+29  
 PT = STA. 61+11  
 R = 3200'  
 $\Delta = 5^{\circ}02'40.00"$ , LT  
 D = 1^{\circ}47'25.78"  
 e = 3.10  
 L = 281.73'  
 SEE SHEET 72 OF 116 FOR  
 SUPERELEVATION DIAGRAM



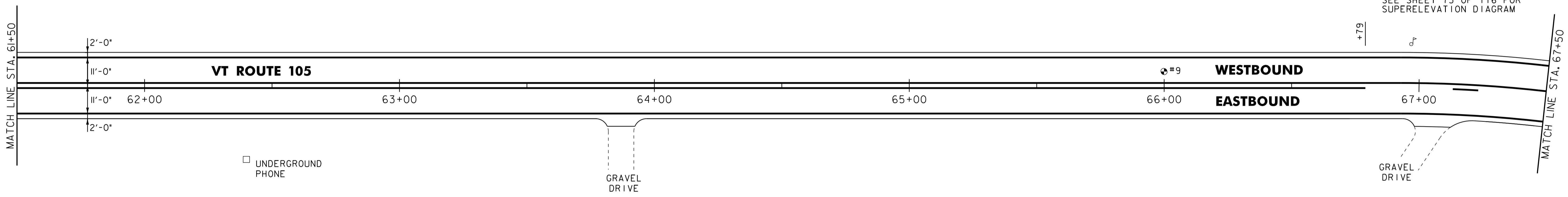
646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 61+50 TO 67+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 61+50 TO 66+79, SOLID LT & RT  
 STA. 66+79 TO 67+50, SOLID LT, DASHED RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 61+50 TO 67+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 61+50 TO 66+79, SOLID LT & RT  
 STA. 66+79 TO 67+50, SOLID LT, DASHED RT

CURVE #6  
 PC = STA. 66+34  
 PT = STA. 67+97  
 R = 1500'  
 $\Delta = 6^{\circ}13'17.44"$ , RT  
 D = 3^{\circ}49'10.99"  
 e = 2.21  
 L = 162.88'  
 SEE SHEET 73 OF 116 FOR  
 SUPERELEVATION DIAGRAM



- NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1

PAVEMENT CORES =  $\odot$

#	TOTAL DEPTH (INCH)	PCC	COMMENTS
9	8 1/2"	NO	TOP 7" SOLID



NOT TO SCALE

**PROJECT LAYOUT SHEET #7**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 14:02
PROJECT NUMBER: STP 2717(I)	DRAWN BY: STANTEC
FILE NAME: p07b198.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 62 OF 116
DESIGNED BY: STANTEC	
IPARM FILE: p07b198i07.i	

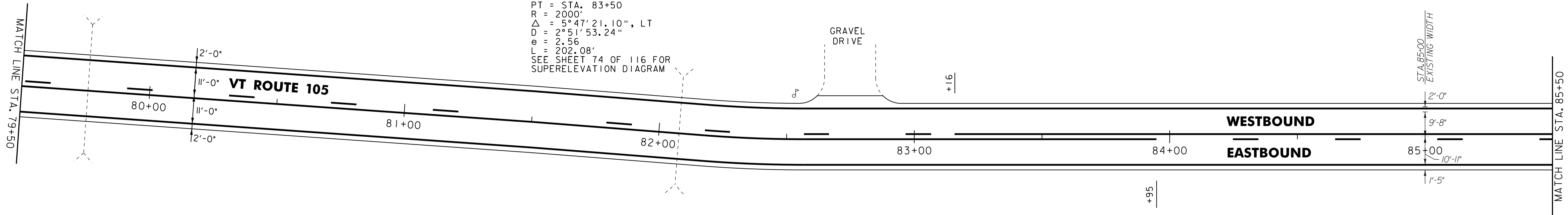
646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 79+50 TO 85+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 79+50 TO 85+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 79+50 TO 83+16, DASHED LT, SOLID RT  
 STA. 83+16 TO 83+95, SOLID LT & RT  
 STA. 83+95 TO 85+50, SOLID LT, DASHED RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 79+50 TO 83+16, DASHED LT, SOLID RT  
 STA. 83+16 TO 83+95, SOLID LT & RT  
 STA. 83+95 TO 85+50, SOLID LT, DASHED RT

CURVE #9  
 PC = STA. 81+47  
 PT = STA. 83+50  
 R = 2000'  
 $\Delta = 5^{\circ}47'21.10''$ , LT  
 $D = 2^{\circ}51'53.24''$   
 e = 2.56  
 L = 202.08'  
 SEE SHEET 74 OF 116 FOR  
 SUPERELEVATION DIAGRAM



646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 85+50 TO 91+50, SOLID LT & RT

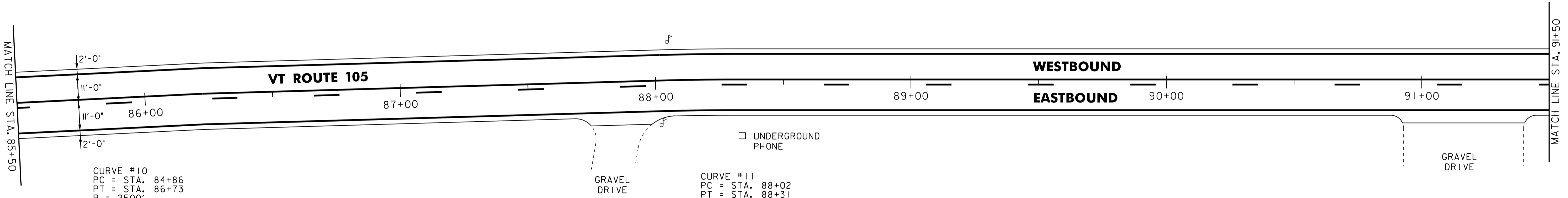
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 85+50 TO 91+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 85+50 TO 91+50, SOLID LT, DASHED RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 85+50 TO 91+50, SOLID LT, DASHED RT

CURVE #10  
 PC = STA. 84+86  
 PT = STA. 86+73  
 R = 2500'  
 $\Delta = 4^{\circ}17'26.92''$ , RT  
 $D = 2^{\circ}17'30.59''$   
 e = 1.75  
 L = 187.22'  
 SEE SHEET 74 OF 116 FOR  
 SUPERELEVATION DIAGRAM

CURVE #11  
 PC = STA. 88+02  
 PT = STA. 88+31  
 R = 1000'  
 $\Delta = 1^{\circ}39'00.81''$ , RT  
 $D = 5^{\circ}43'46.48''$   
 e = 0.10  
 L = 28.80'  
 SEE SHEET 74 OF 116 FOR  
 SUPERELEVATION DIAGRAM



NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1



NOT TO SCALE

**PROJECT  
 LAYOUT  
 SHEET #9**

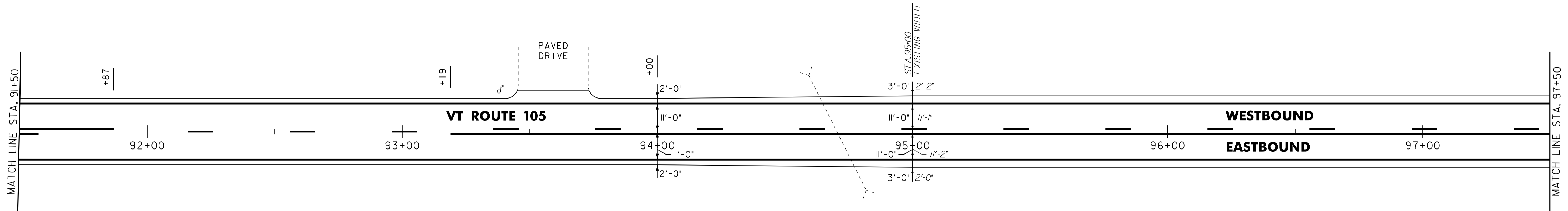
PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 4:02
PROJECT NUMBER: STP 2717(1)	DRAWN BY: STANTEC
FILE NAME: p07b198.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 64 OF 116
DESIGNED BY: STANTEC	
<b>IPARM FILE: p07b198i09.i</b>	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 91+50 TO 97+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 91+50 TO 97+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 91+50 TO 91+87, SOLID LT, DASHED RT  
 STA. 91+87 TO 93+19, DASHED C  
 STA. 93+19 TO 97+50, DASHED LT, SOLID RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 91+50 TO 91+87, SOLID LT, DASHED RT  
 STA. 91+87 TO 93+19, DASHED C  
 STA. 93+19 TO 97+50, DASHED LT, SOLID RT



NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1

NOT TO SCALE



**PROJECT  
 LAYOUT  
 SHEET #10**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 4:02
PROJECT NUMBER: STP 2717(1)	DRAWN BY: STANTEC
FILE NAME: p07b198.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 65 OF 116
DESIGNED BY: STANTEC	
<b>IPARM FILE: p07b198I10.i</b>	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 97+50 TO 103+50, SOLID LT & RT  
 STA 99+25, DOUBLE SOLID RT (VINCENT ROAD)

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC  
 STA. 99+25, RT (VINCENT ROAD)

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 97+50 TO 103+50, SOLID LT & RT  
 STA 99+25, DOUBLE SOLID RT (VINCENT ROAD)

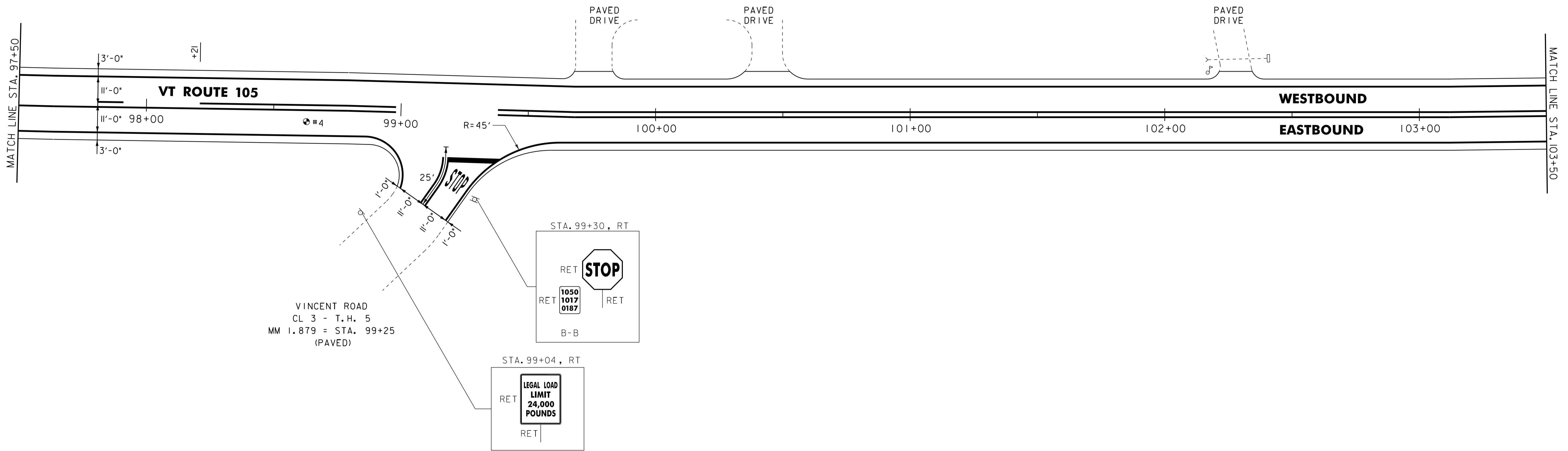
646.682 TEMPORARY 24 INCH STOP BAR, PAINT  
 STA. 99+25, RT (VINCENT ROAD)

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 97+50 TO 98+21, DASHED LT, SOLID RT  
 STA. 98+21 TO 103+50, SOLID LT & RT  
 (INCLUDE C BREAKS FOR TOWN HIGHWAYS)  
 STA 99+25, DOUBLE SOLID RT (VINCENT ROAD)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC  
 STA. 99+25, RT - "STOP"

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 97+50 TO 98+21, DASHED LT, SOLID RT  
 STA. 98+21 TO 103+50, SOLID LT & RT  
 (INCLUDE C BREAKS FOR TOWN HIGHWAYS)  
 STA 99+25, DOUBLE SOLID RT (VINCENT ROAD)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT  
 STA. 99+25, RT - "STOP"



VINCENT ROAD  
 CL 3 - T.H. 5  
 MM 1.879 = STA. 99+25  
 (PAVED)

- NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1

NOT TO SCALE

PAVEMENT CORES = 4

#	TOTAL DEPTH (INCH)	PCC	COMMENTS
4	8 3/4"	NO	RECENTLY LEVELED



**PROJECT LAYOUT SHEET #11**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 4:02
PROJECT NUMBER: STP 2717(1)	DRAWN BY: STANTEC
FILE NAME: p07b198.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 66 OF 116
DESIGNED BY: STANTEC	
<b>IPARM FILE: p07b198I11.i</b>	

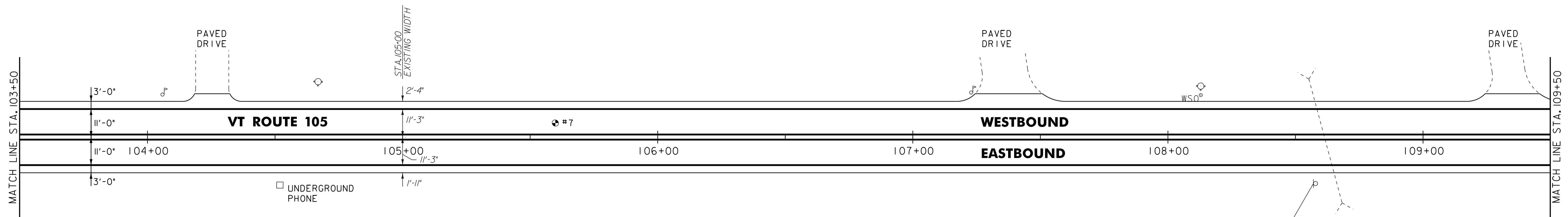
646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
STA. 103+50 TO 109+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
STA. 103+50 TO 109+50, SOLID LT & RT

675.50 REMOVING SIGNS  
AS SHOWN - 1

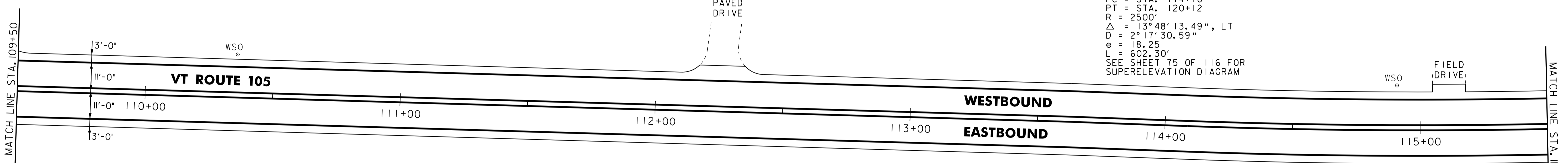
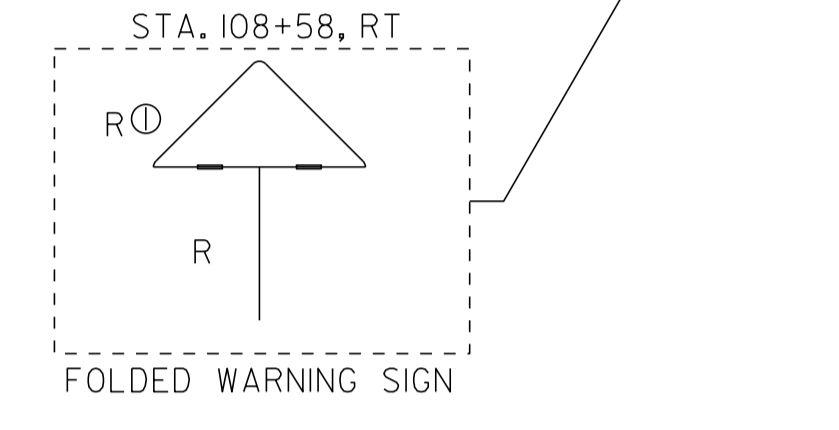
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
STA. 103+50 TO 109+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
STA. 103+50 TO 109+50, SOLID LT & RT



PAVEMENT CORES =

#	TOTAL DEPTH (INCH)	PCC	COMMENTS
7	9 1/2"	NO	



CURVE #12  
PC = STA. 114+10  
PT = STA. 120+12  
R = 2500'  
 $\Delta = 13^\circ 48' 13.49"$ , LT  
D =  $2^\circ 17' 30.59"$   
e = 18.25'  
L = 602.30'  
SEE SHEET 75 OF 116 FOR SUPERELEVATION DIAGRAM

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
STA. 109+50 TO 115+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
STA. 109+50 TO 115+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
STA. 109+50 TO 115+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
STA. 109+50 TO 115+50, SOLID LT & RT

- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
  2. FOR LEGENDS, SEE LAYOUT SHEET #1



NOT TO SCALE

**PROJECT LAYOUT SHEET #12**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 4:02
PROJECT NUMBER: STP 2717(1)	DRAWN BY: STANTEC
FILE NAME: p07b198.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 67 OF 116
DESIGNED BY: STANTEC	
<b>IPARM FILE: p07b198I12.i</b>	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 115+50 TO 121+50, SOLID LT & RT

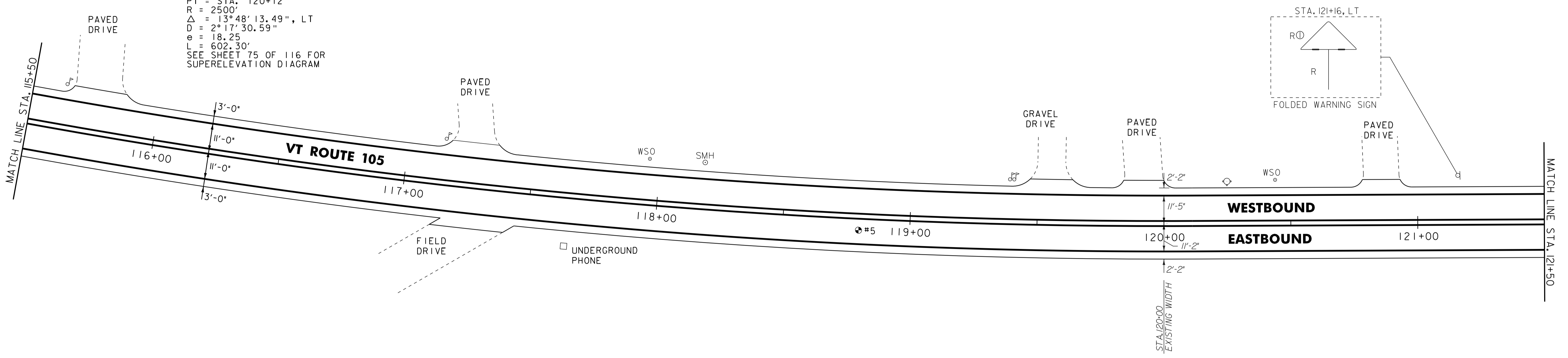
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 115+50 TO 121+50, SOLID LT & RT

675.50 REMOVING SIGNS  
 AS SHOWN - 1

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 115+50 TO 121+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 115+50 TO 121+50, SOLID LT & RT

CURVE #12  
 PC = STA. 114+10  
 PT = STA. 120+12  
 R = 2500'  
 $\Delta = 13^\circ 48' 13.49''$ , LT  
 $D = 2^\circ 17' 30.59''$   
 $e = 18.25'$   
 $L = 602.30'$   
 SEE SHEET 75 OF 116 FOR  
 SUPERELEVATION DIAGRAM



NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1

NOT TO SCALE

PAVEMENT CORES =

#	TOTAL DEPTH (INCH)	PCC	COMMENTS
5	7 1/2"	NO	



**PROJECT LAYOUT SHEET #13**

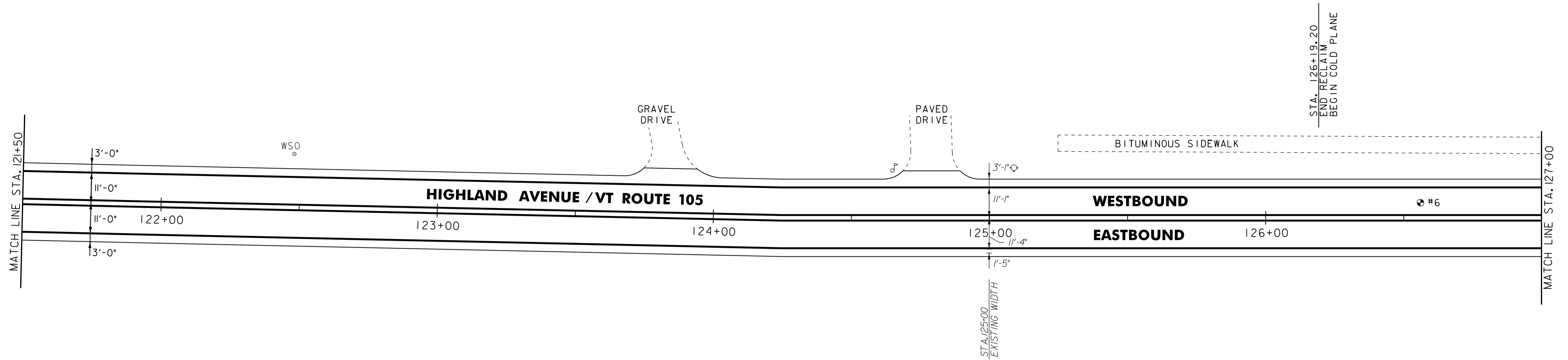
PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 4:02
PROJECT NUMBER: STP 2717(1)	DRAWN BY: STANTEC
FILE NAME: p07b198.dgn	CHECKED BY: JLL
DESIGNED BY: STANTEC	SHEET 68 OF 116
IPARM FILE: p07b198I13.i	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 121+50 TO 127+00, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 121+50 TO 127+00, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 121+50 TO 127+00, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 121+50 TO 127+00, SOLID LT & RT



NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1

NOT TO SCALE

PAVEMENT CORES = 6

#	TOTAL DEPTH (INCH)	PCC	COMMENTS
6	3 3/4"	NO	



**PROJECT LAYOUT SHEET #14**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 4:02
PROJECT NUMBER: STP 2717(1)	DRAWN BY: STANTEC
FILE NAME: p07b198.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 69 OF 116
DESIGNED BY: STANTEC	
<b>IPARM FILE: p07b198I14.i</b>	

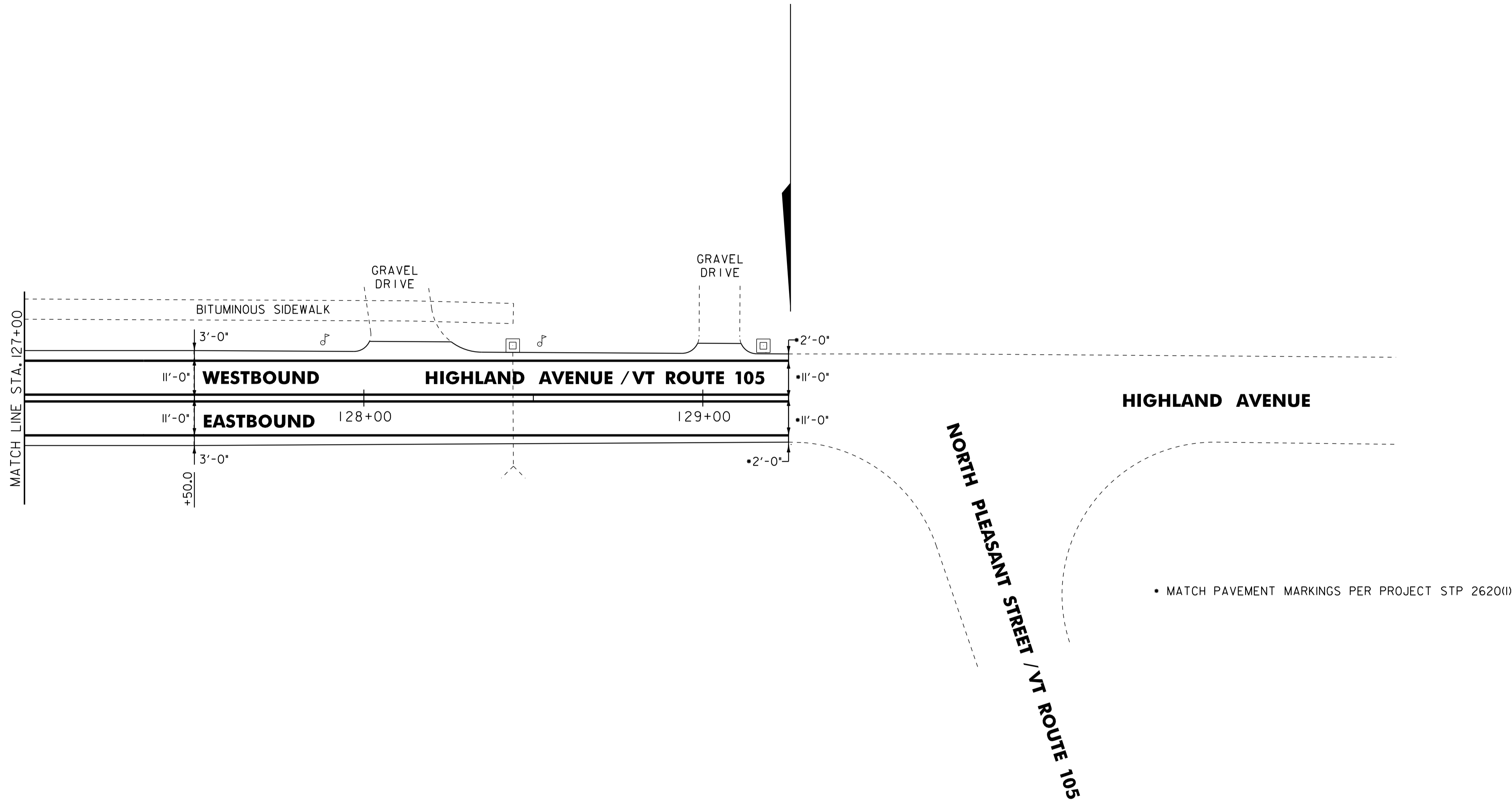
646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
STA. 127+00 TO 129+26, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
STA. 127+00 TO 129+26, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
STA. 127+00 TO 129+26, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
STA. 127+00 TO 129+26, SOLID LT & RT

**END STP 2717(1) VT ROUTE 105  
TROY STA. 129+25.44 = MM 2.448  
EQUALS BEGIN STP 2620(1) VT ROUTE 105  
NORTH TROY STA 129+51.84 = MM 2.453**



- NOTES:  
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
2. FOR LEGENDS, SEE LAYOUT SHEET #1

NOT TO SCALE

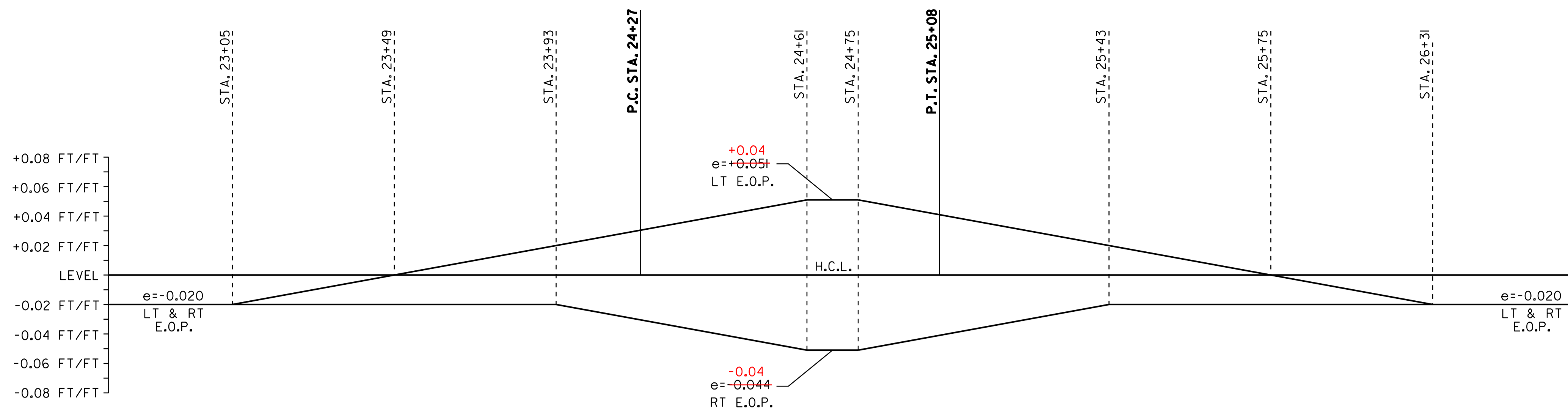


**PROJECT  
LAYOUT  
SHEET #15**

PROJECT NAME: TROY  
PROJECT NUMBER: STP 2717(1)

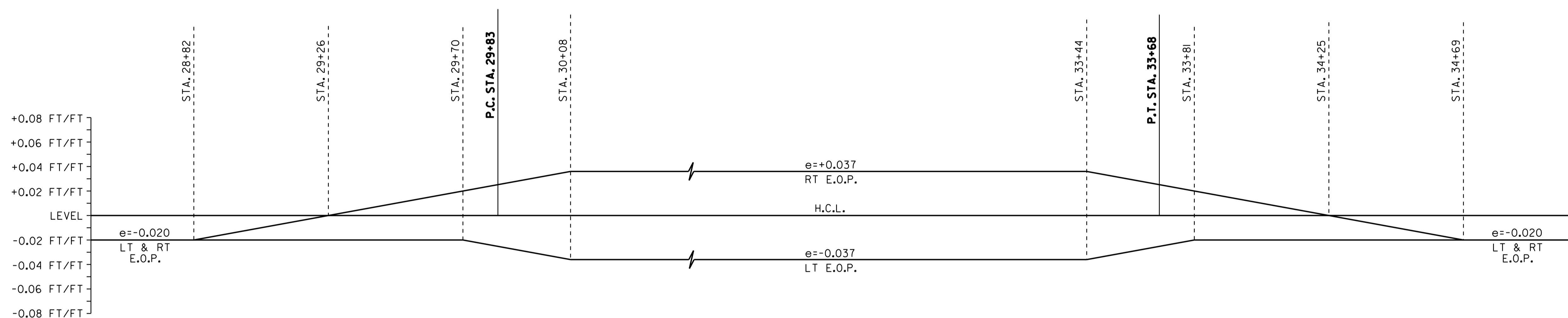
FILE NAME: p07b198.dgn  
PROJECT LEADER: JLL  
DESIGNED BY: STANTEC  
IPARM FILE: p07b198I15.i

PLOT DATE: 25-OCT-2011 4:02  
DRAWN BY: STANTEC  
CHECKED BY: JLL  
SHEET 70 OF 116



**CURVE 1 BANKING DIAGRAM**  
CURVE 1 RADIUS = 2000' RIGHT

CURVE DATA	
PC	= 24+27
PT	= 25+08
R	= 2000'
$\Delta$	= 2° 19' 39.02", RT
D	= 2° 51' 53.24"
e	= 0.4
L	= 81.25'



**CURVE 2 BANKING DIAGRAM**  
CURVE 2 RADIUS = 3000' LEFT

CURVE DATA	
PC	= 29+83
PT	= 33+68
R	= 3000'
$\Delta$	= 7° 21' 17.83", LT
D	= 1° 54' 35.49"
e	= 6.19
L	= 385.10'

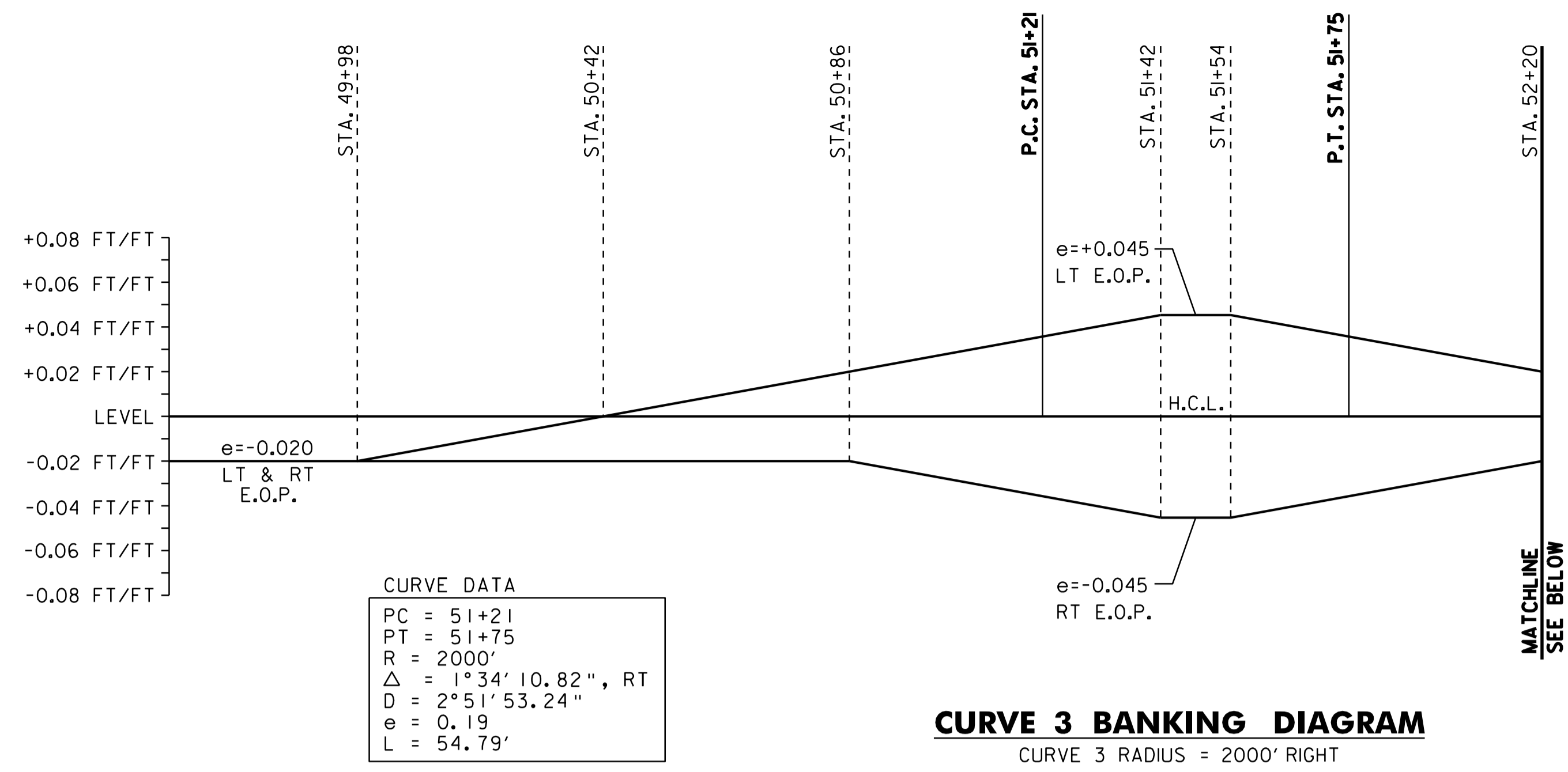
**SUPERELEVATION BANKING NOTES:**

1. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THE HORIZONTAL AND VERTICAL GEOMETRY OF THE EXISTING ROADWAY.
2. THE MAXIMUM ROLL-OVER BETWEEN LANE AND SHOULDER CROSS SLOPES ON THE OUTSIDE (HIGH SIDE) OF A SUPERELEVATED CURVE SHALL BE SEVEN PERCENT. SHOULDER CROSS SLOPE ON THE INSIDE (LOW SIDE) OF A SUPERELEVATED CURVE SHALL BE A MINIMUM OF SIX PERCENT AND MATCH THE ADJACENT LANE CROSS SLOPE WHEN THE LANE CROSS SLOPE EXCEEDS SIX PERCENT.
3. SUPERELEVATION RATES AND RUNOFF LENGTHS WERE DETERMINED USING A DESIGN SPEED EQUAL TO THE POSTED SPEED AND A MAXIMUM SUPERELEVATION RATE OF 0.08. SEE VAOT STANDARD B-1 FOR MORE INFORMATION.



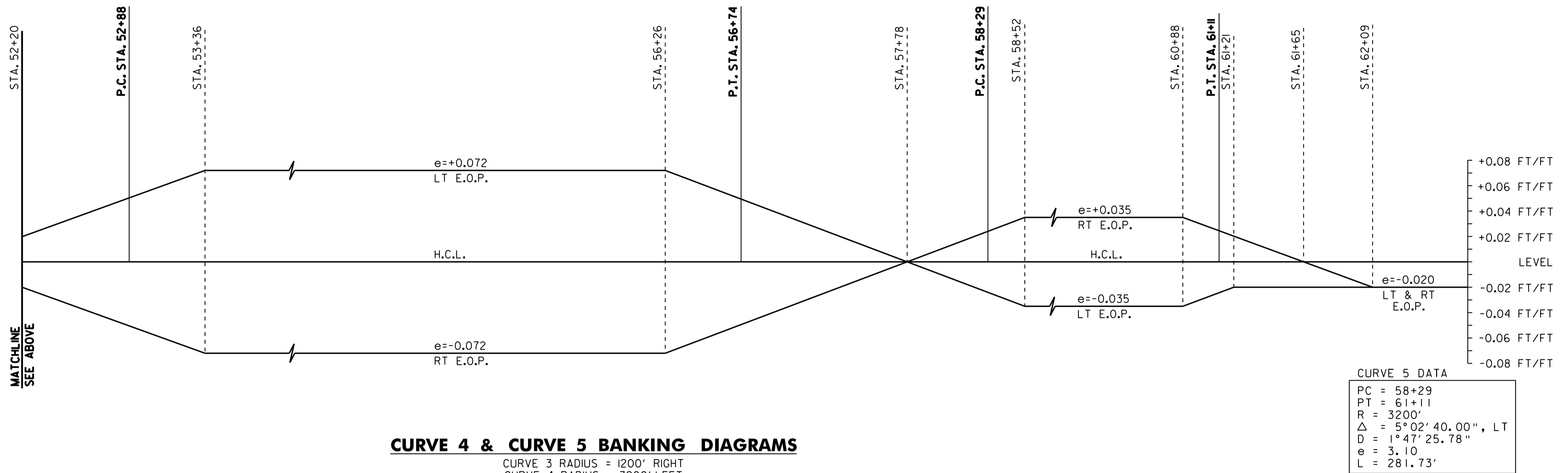
**NOT TO SCALE**  
**SUPERELEVATION BANKING DIAGRAMS SHEET #1**

PROJECT NAME:	TROY	FILE NAME:	p07b198.dgn	PLOT DATE:	25-OCT-2011 4:02
PROJECT NUMBER:	STP 2717(I)	PROJECT LEADER:	JLL	DRAWN BY:	STANTEC
		DESIGNED BY:	STANTEC	CHECKED BY:	JLL
		IPARM FILE:	p07b198sbd1.i	SHEET	71 OF 116



**CURVE DATA**  
 PC = 51+21  
 PT = 51+75  
 R = 2000'  
 $\Delta = 1^{\circ}34'10.82''$ , RT  
 $D = 2^{\circ}51'53.24''$   
 e = 0.19  
 L = 54.79'

**CURVE 3 BANKING DIAGRAM**  
 CURVE 3 RADIUS = 2000' RIGHT



**CURVE 4 DATA**  
 PC = 52+88  
 PT = 56+74  
 R = 1200'  
 $\Delta = 18^{\circ}24'50.38''$ , RT  
 $D = 4^{\circ}46'28.73''$   
 e = 15.66  
 L = 385.66'

**CURVE 5 DATA**  
 PC = 58+29  
 PT = 61+11  
 R = 3200'  
 $\Delta = 5^{\circ}02'40.00''$ , LT  
 $D = 1^{\circ}47'25.78''$   
 e = 3.10  
 L = 281.73'

**CURVE 4 & CURVE 5 BANKING DIAGRAMS**  
 CURVE 3 RADIUS = 1200' RIGHT  
 CURVE 4 RADIUS = 3200' LEFT

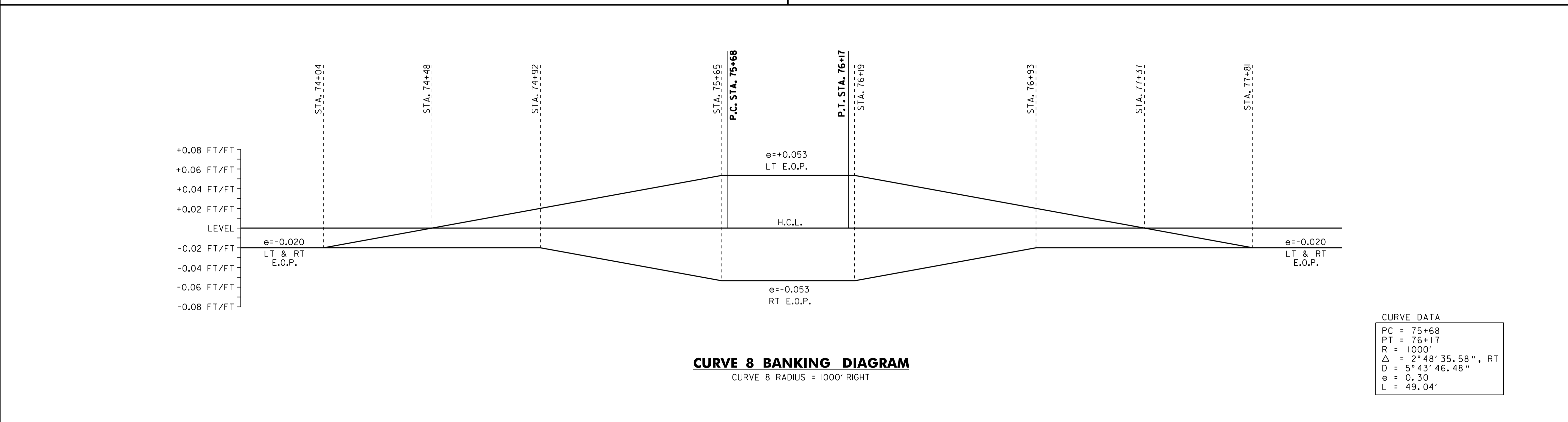
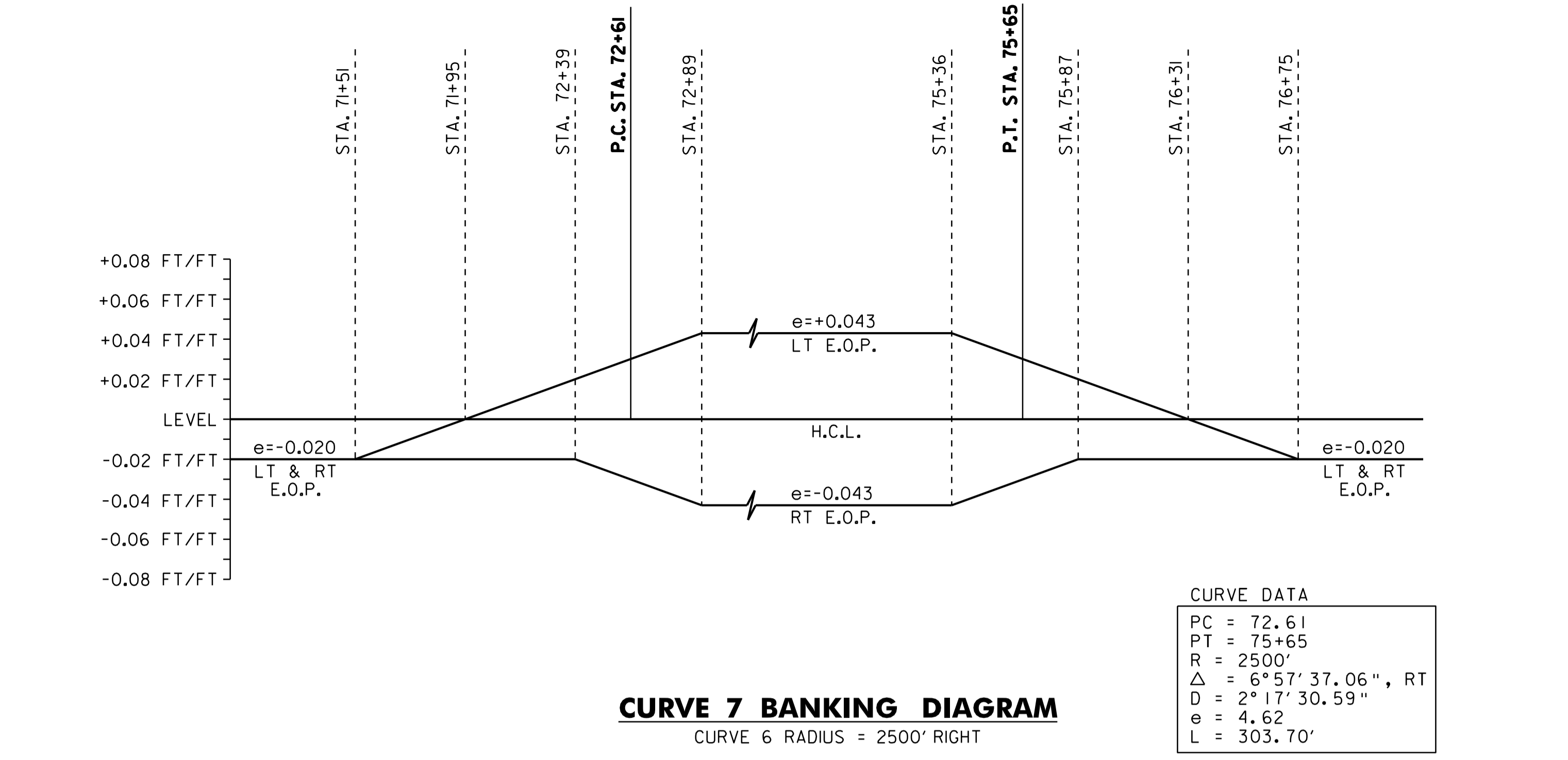
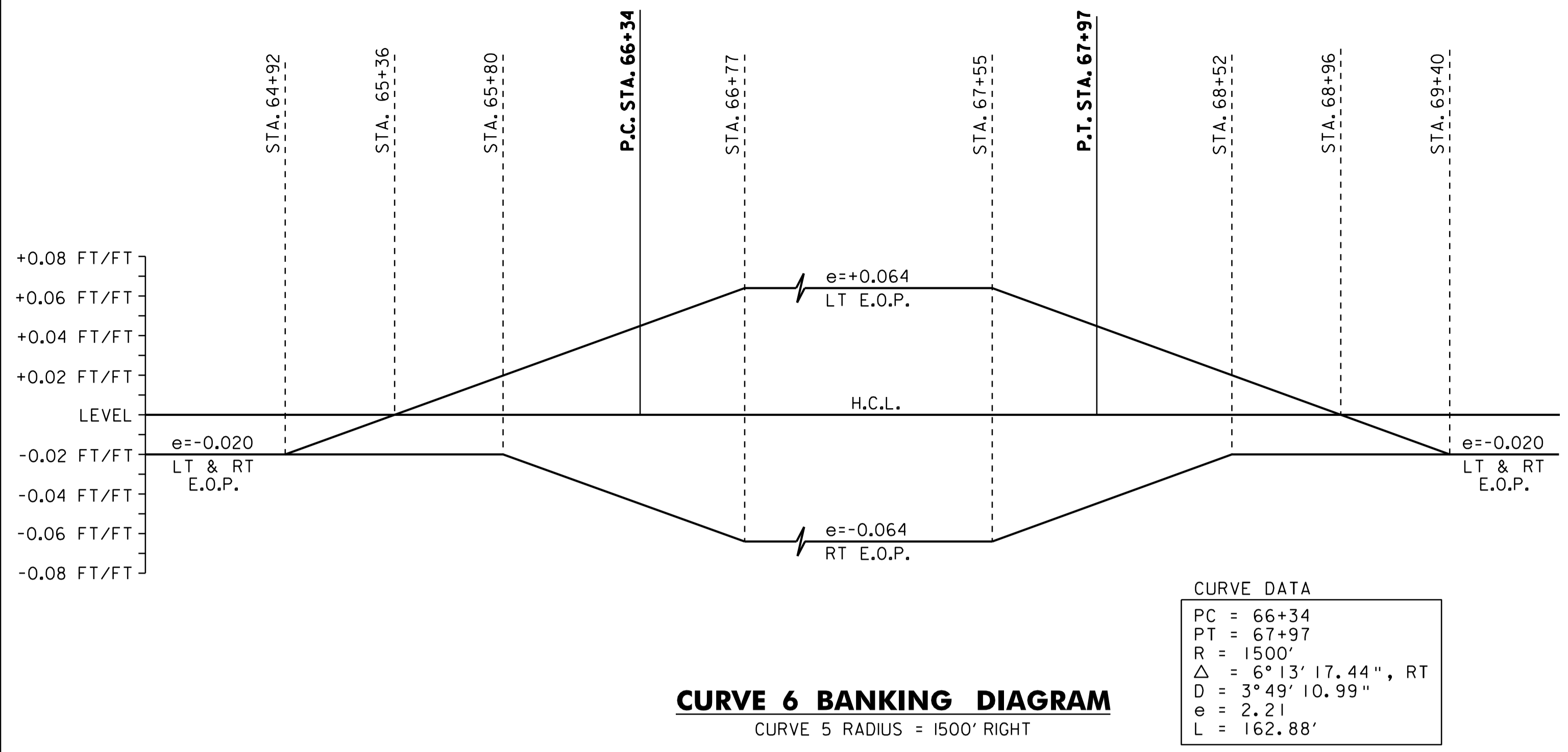
**SUPERELEVATION BANKING NOTES:**

1. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THE HORIZONTAL AND VERTICAL GEOMETRY OF THE EXISTING ROADWAY.
2. THE MAXIMUM ROLL-OVER BETWEEN LANE AND SHOULDER CROSS SLOPES ON THE OUTSIDE (HIGH SIDE) OF A SUPERELEVATED CURVE SHALL BE SEVEN PERCENT. SHOULDER CROSS SLOPE ON THE INSIDE (LOW SIDE) OF A SUPERELEVATED CURVE SHALL BE A MINIMUM OF SIX PERCENT AND MATCH THE ADJACENT LANE CROSS SLOPE WHEN THE LANE CROSS SLOPE EXCEEDS SIX PERCENT.
3. SUPERELEVATION RATES AND RUNOFF LENGTHS WERE DETERMINED USING A DESIGN SPEED EQUAL TO THE POSTED SPEED AND A MAXIMUM SUPERELEVATION RATE OF 0.08. SEE VAOT STANDARD B-1 FOR MORE INFORMATION.



**NOT TO SCALE**  
**SUPERELEVATION BANKING DIAGRAMS SHEET #2**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 4:02
PROJECT NUMBER: STP 2717(I)	DRAWN BY: STANTEC
FILE NAME: p07b198.dgn	CHECKED BY: JLL
DESIGNED BY: STANTEC	SHEET 72 OF 116
IPARM FILE: p07b198sbd2.i	



**SUPERELEVATION BANKING NOTES:**

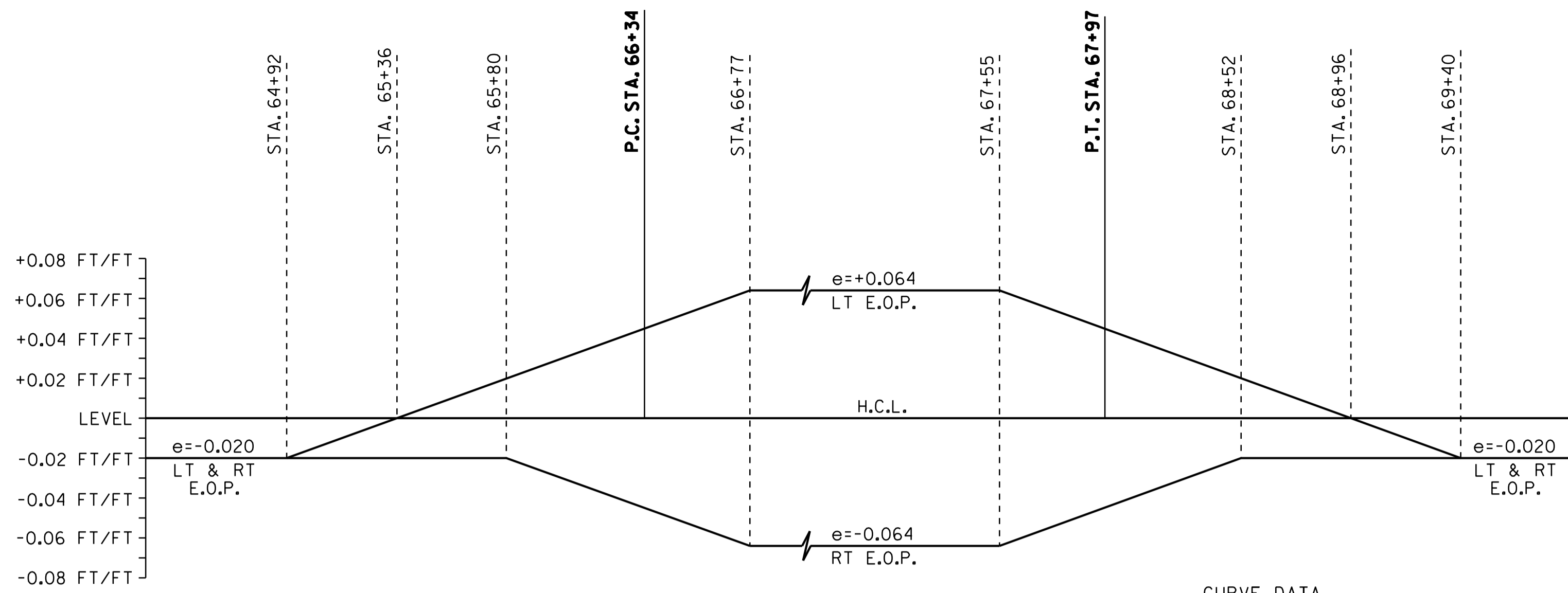
1. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THE HORIZONTAL AND VERTICAL GEOMETRY OF THE EXISTING ROADWAY.
2. THE MAXIMUM ROLL-OVER BETWEEN LANE AND SHOULDER CROSS SLOPES ON THE OUTSIDE (HIGH SIDE) OF A SUPERELEVATED CURVE SHALL BE SEVEN PERCENT. SHOULDER CROSS SLOPE ON THE INSIDE (LOW SIDE) OF A SUPERELEVATED CURVE SHALL BE A MINIMUM OF SIX PERCENT AND MATCH THE ADJACENT LANE CROSS SLOPE WHEN THE LANE CROSS SLOPE EXCEEDS SIX PERCENT.
3. SUPERELEVATION RATES AND RUNOFF LENGTHS WERE DETERMINED USING A DESIGN SPEED EQUAL TO THE POSTED SPEED AND A MAXIMUM SUPERELEVATION RATE OF 0.08. SEE VAOT STANDARD B-1 FOR MORE INFORMATION.



**NOT TO SCALE**  
**SUPERELEVATION BANKING DIAGRAMS SHEET #3**

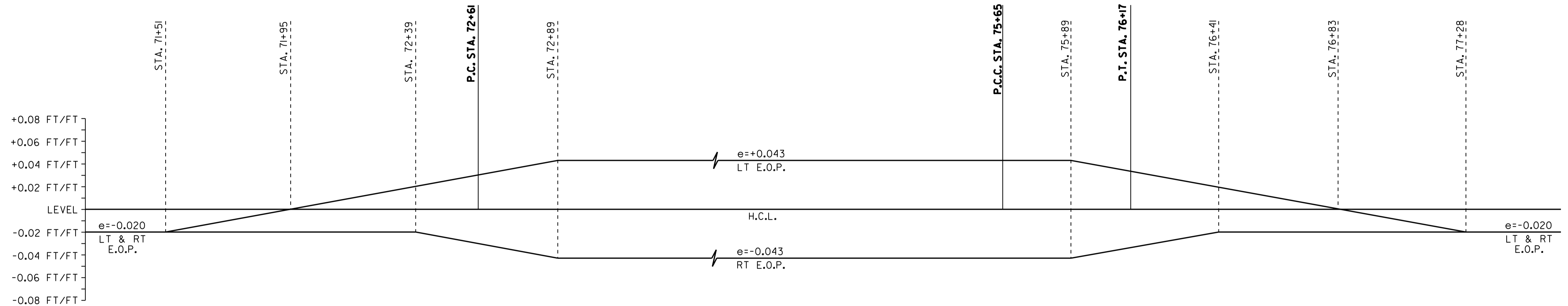
PROJECT NAME:	TROY	PLOT DATE:	25-OCT-2011 4:02
PROJECT NUMBER:	STP 2717(I)	DRAWN BY:	STANTEC
FILE NAME:	p07b198.dgn	DESIGNED BY:	STANTEC
PROJECT LEADER:	JLL	CHECKED BY:	JLL
IPARM FILE:	p07b198sbd3.i	SHEET	73 OF 116

THIS SHEET NOT USED.  
SEE REVISED SHEET PLOT DATE 10-12-11.



**CURVE 6 BANKING DIAGRAM**  
 CURVE 5 RADIUS = 1500' RIGHT

CURVE DATA	
PC	= 66+34
PT	= 67+97
R	= 1500'
$\Delta$	= 6° 13' 17.44", RT
D	= 3° 49' 10.99"
e	= 2.21
L	= 162.88'



CURVE 7 DATA	
PC	= 72.61
PT	= 75+65
R	= 2500'
$\Delta$	= 6° 57' 37.06", RT
D	= 2° 17' 30.59"
e	= 4.62
L	= 303.70'

**CURVE 7 & CURVE 8 BANKING DIAGRAM**  
 CURVE 7 RADIUS = 2500' RIGHT  
 CURVE 8 RADIUS = 1000' RIGHT

CURVE 8 DATA	
PC	= 75+68
PT	= 76+17
R	= 1000'
$\Delta$	= 2° 48' 35.58", RT
D	= 5° 43' 46.48"
e	= 0.30
L	= 49.04'

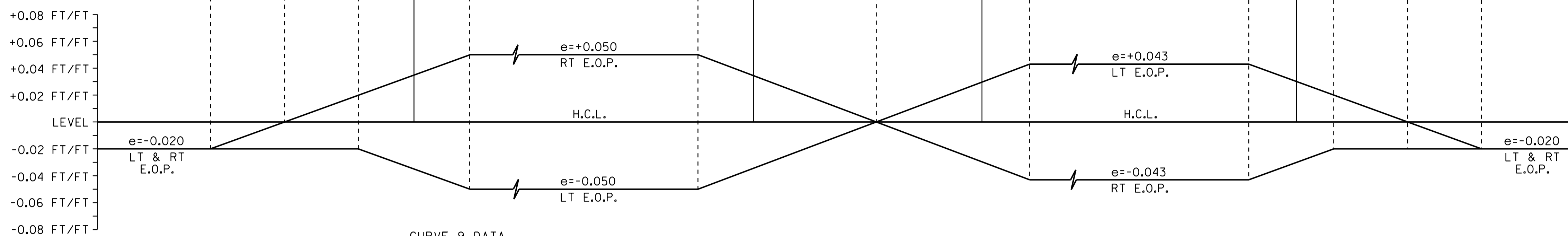
**SUPERELEVATION BANKING NOTES:**

1. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THE HORIZONTAL AND VERTICAL GEOMETRY OF THE EXISTING ROADWAY.
2. THE MAXIMUM ROLL-OVER BETWEEN LANE AND SHOULDER CROSS SLOPES ON THE OUTSIDE (HIGH SIDE) OF A SUPERELEVATED CURVE SHALL BE SEVEN PERCENT. SHOULDER CROSS SLOPE ON THE INSIDE (LOW SIDE) OF A SUPERELEVATED CURVE SHALL BE A MINIMUM OF SIX PERCENT AND MATCH THE ADJACENT LANE CROSS SLOPE WHEN THE LANE CROSS SLOPE EXCEEDS SIX PERCENT.
3. SUPERELEVATION RATES AND RUNOFF LENGTHS WERE DETERMINED USING A DESIGN SPEED EQUAL TO THE POSTED SPEED AND A MAXIMUM SUPERELEVATION RATE OF 0.08. SEE VAOT STANDARD B-1 FOR MORE INFORMATION.



**NOT TO SCALE**  
**SUPERELEVATION BANKING DIAGRAMS SHEET #3**

PROJECT NAME:	TROY	PLOT DATE:	25-OCT-2011 4:02
PROJECT NUMBER:	STP 2717(I)	DRAWN BY:	STANTEC
FILE NAME:	p07b198.dgn	CHECKED BY:	JLL
PROJECT LEADER:	JLL	SHEET	73 OF 116
DESIGNED BY:	STANTEC		
IPARM FILE:	p07b198sbd3.i		



**CURVE 9 DATA**

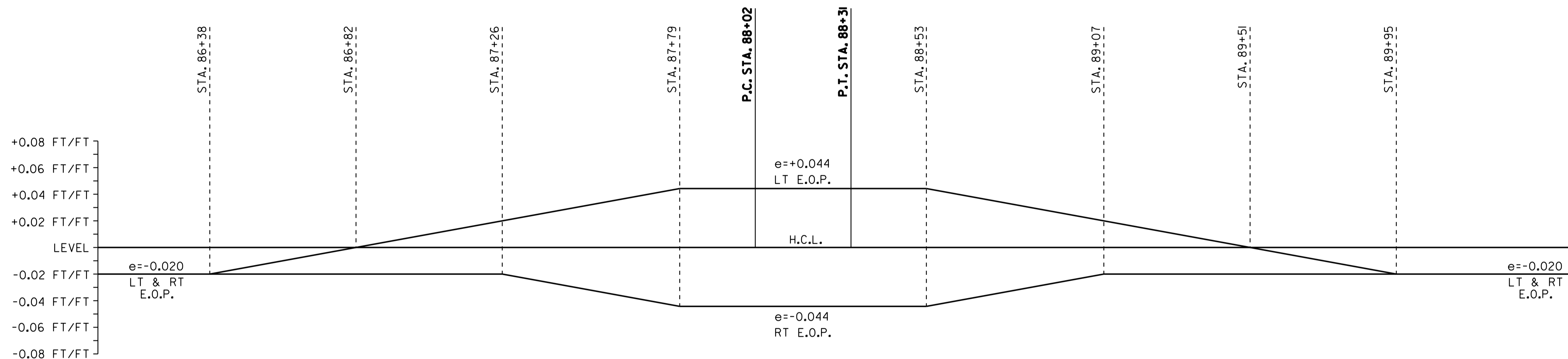
PC	= 81+47
PT	= 83+50
R	= 2000'
Δ	= 5° 47' 21.10", LT
D	= 2° 51' 53.24"
e	= 2.56
L	= 202.08'

**CURVE 9 & CURVE 10 BANKING DIAGRAMS**

CURVE 8 RADIUS = 2000' LEFT  
 CURVE 9 RADIUS = 2500' RIGHT

**CURVE 10 DATA**

PC	= 84+86
PT	= 86+73
R	= 2500'
Δ	= 4° 17' 26.92", RT
D	= 2° 17' 30.59"
e	= 1.75
L	= 187.22'



**CURVE DATA**

PC	= 88+02
PT	= 88+31
R	= 1000'
Δ	= 1° 39' 00.81", RT
D	= 5° 43' 46.48"
e	= 0.10
L	= 28.80'

**CURVE 11 BANKING DIAGRAM**

CURVE 11 RADIUS = 1000' RIGHT

**SUPERELEVATION BANKING NOTES:**

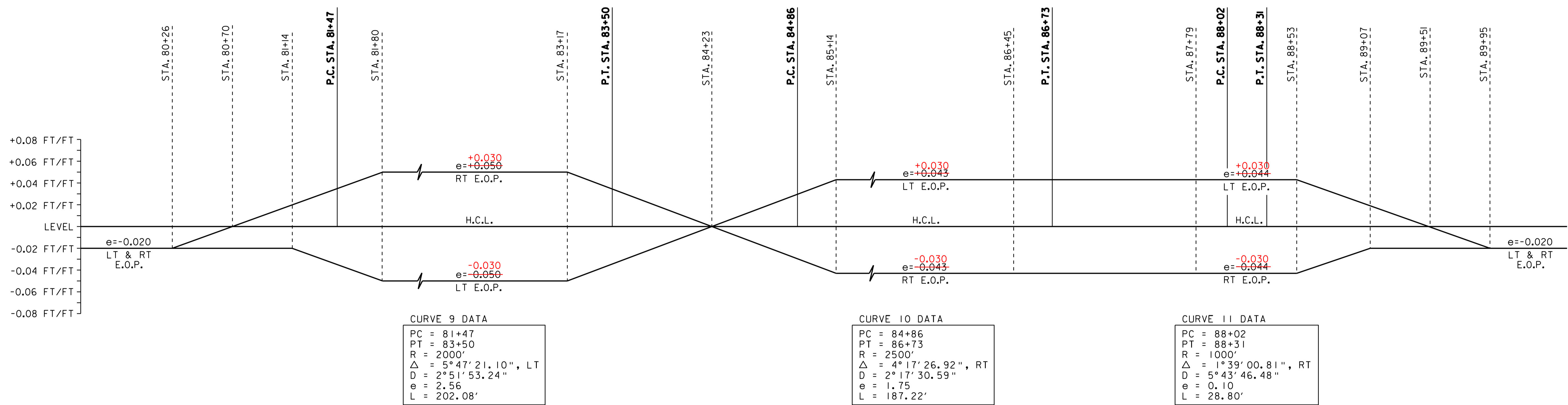
1. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THE HORIZONTAL AND VERTICAL GEOMETRY OF THE EXISTING ROADWAY.
2. THE MAXIMUM ROLL-OVER BETWEEN LANE AND SHOULDER CROSS SLOPES ON THE OUTSIDE (HIGH SIDE) OF A SUPERELEVATED CURVE SHALL BE SEVEN PERCENT. SHOULDER CROSS SLOPE ON THE INSIDE (LOW SIDE) OF A SUPERELEVATED CURVE SHALL BE A MINIMUM OF SIX PERCENT AND MATCH THE ADJACENT LANE CROSS SLOPE WHEN THE LANE CROSS SLOPE EXCEEDS SIX PERCENT.
3. SUPERELEVATION RATES AND RUNOFF LENGTHS WERE DETERMINED USING A DESIGN SPEED EQUAL TO THE POSTED SPEED AND A MAXIMUM SUPERELEVATION RATE OF 0.08. SEE VAOT STANDARD B-1 FOR MORE INFORMATION.

THIS SHEET NOT USED.  
 SEE REVISED SHEET PLOT DATE 10-12-11.



**NOT TO SCALE**  
**SUPERELEVATION BANKING DIAGRAMS SHEET #4**

PROJECT NAME:	TROY
PROJECT NUMBER:	STP 2717(1)
FILE NAME:	p07b198.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	p07b198sbd4.i
PLOT DATE:	25-OCT-2011 4:02
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	74 OF 116



**CURVE 9, CURVE 10, & CURVE 11 BANKING DIAGRAMS**

CURVE 9 RADIUS = 2000' LEFT  
 CURVE 10 RADIUS = 2500' RIGHT  
 CURVE 11 RADIUS = 1000' RIGHT

**SUPERELEVATION BANKING NOTES:**

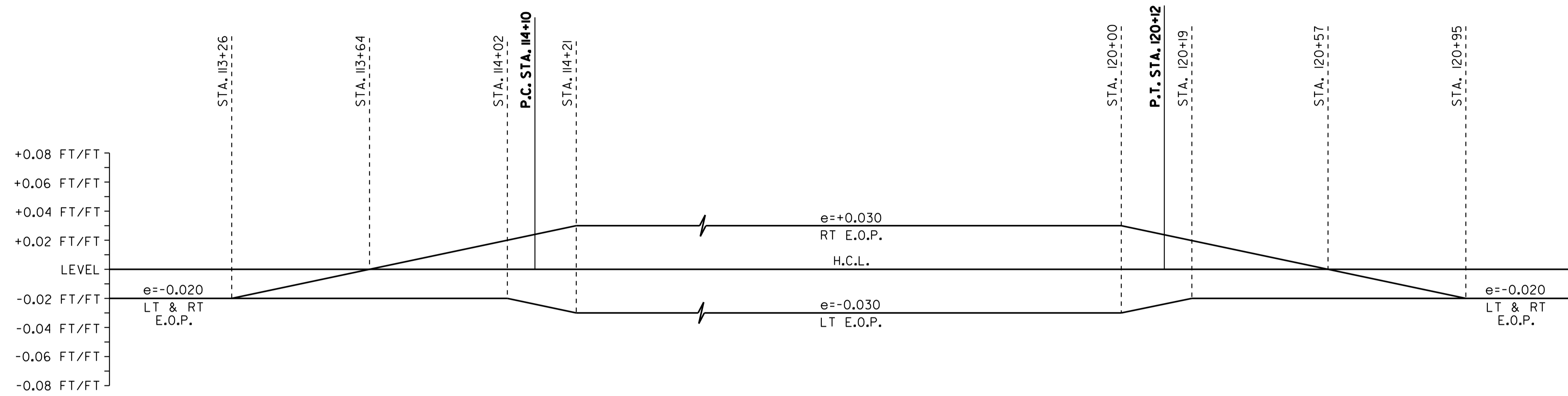
1. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THE HORIZONTAL AND VERTICAL GEOMETRY OF THE EXISTING ROADWAY.
2. THE MAXIMUM ROLL-OVER BETWEEN LANE AND SHOULDER CROSS SLOPES ON THE OUTSIDE (HIGH SIDE) OF A SUPERELEVATED CURVE SHALL BE SEVEN PERCENT. SHOULDER CROSS SLOPE ON THE INSIDE (LOW SIDE) OF A SUPERELEVATED CURVE SHALL BE A MINIMUM OF SIX PERCENT AND MATCH THE ADJACENT LANE CROSS SLOPE WHEN THE LANE CROSS SLOPE EXCEEDS SIX PERCENT.
3. SUPERELEVATION RATES AND RUNOFF LENGTHS WERE DETERMINED USING A DESIGN SPEED EQUAL TO THE POSTED SPEED AND A MAXIMUM SUPERELEVATION RATE OF 0.08. SEE VAOT STANDARD B-1 FOR MORE INFORMATION.



**NOT TO SCALE**  
**SUPERELEVATION BANKING DIAGRAMS SHEET #4**

PROJECT NAME: TROY  
 PROJECT NUMBER: STP 2717(I)  
 FILE NAME: p07b198.dgn  
 PROJECT LEADER: JLL  
 DESIGNED BY: STANTEC  
 IPARM FILE: p07b198sbd4.i

PLOT DATE: 25-OCT-2011 4:03  
 DRAWN BY: STANTEC  
 CHECKED BY: JLL  
 SHEET 74 OF 116



**CURVE 12 BANKING DIAGRAM**  
 CURVE II RADIUS = 2500' LEFT

CURVE DATA	
PC	= 114+10
PT	= 120+12
R	= 2500'
$\Delta$	= 13° 48' 13.49", LT
D	= 2° 17' 30.59"
e	= 18.25
L	= 602.30'

**SUPERELEVATION BANKING NOTES:**

1. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING THE HORIZONTAL AND VERTICAL GEOMETRY OF THE EXISTING ROADWAY.
2. THE MAXIMUM ROLL-OVER BETWEEN LANE AND SHOULDER CROSS SLOPES ON THE OUTSIDE (HIGH SIDE) OF A SUPERELEVATED CURVE SHALL BE SEVEN PERCENT. SHOULDER CROSS SLOPE ON THE INSIDE (LOW SIDE) OF A SUPERELEVATED CURVE SHALL BE A MINIMUM OF SIX PERCENT AND MATCH THE ADJACENT LANE CROSS SLOPE WHEN THE LANE CROSS SLOPE EXCEEDS SIX PERCENT.
3. SUPERELEVATION RATES AND RUNOFF LENGTHS WERE DETERMINED USING A DESIGN SPEED EQUAL TO THE POSTED SPEED AND A MAXIMUM SUPERELEVATION RATE OF 0.08. SEE VAOT STANDARD B-1 FOR MORE INFORMATION.



**NOT TO SCALE**  
**SUPERELEVATION BANKING DIAGRAMS SHEET #5**

PROJECT NAME:	TROY	PLOT DATE:	25-OCT-2011 4:03
PROJECT NUMBER:	STP 2717(1)	DRAWN BY:	STANTEC
FILE NAME:	p07b198.dgn	CHECKED BY:	JLL
PROJECT LEADER:	JLL	SHEET	75 OF 116
DESIGNED BY:	STANTEC		
IPARM FILE:	p07b198sbd5.i		

# STATE OF VERMONT AGENCY OF TRANSPORTATION



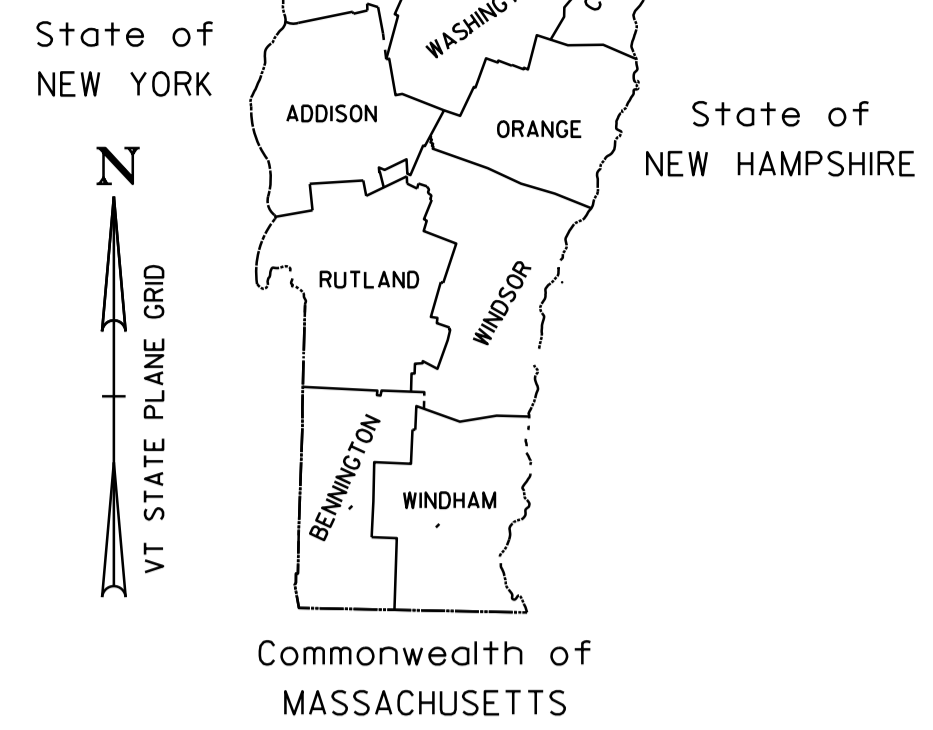
## PROPOSED IMPROVEMENT CLASS I TOWN HIGHWAY VILLAGE OF NORTH TROY COUNTY OF ORLEANS VT ROUTE 105 & VT ROUTE 243

BEGINNING IN THE VILLAGE OF NORTH TROY ON VT ROUTE 105 AT HIGHLAND AVE. (STA. 129+51.84) (MM 2.453) AND EXTENDING EASTERLY ALONG VT ROUTE 105 FOR A DISTANCE OF 3,447.84 FEET (0.653 MILE) TO STA. 163+99.68 (MM 3.106) AT THE INTERSECTION OF PINE ST. ALSO BEGINNING IN THE VILLAGE OF NORTH TROY ON VT ROUTE 243 NEAR DOMINION AVE. (STA. 45+77.76) (MM 0.867) AND EXTENDING EASTERLY ALONG VT ROUTE 243 FOR A DISTANCE OF 1,657.92 FEET (0.314 MILE) TO STA. 62+35.68 (MM 1.181) AT THE INTERSECTION OF VT ROUTE 105

PROJECT DATA:	LENGTH (FEET)	LENGTH (MILES)
VILLAGE OF NORTH TROY VT ROUTE 105 STA. 129+51.84 TO 163+99.68 MM 2.453 TO 3.106	3,447.84	0.653
VT ROUTE 243 APPROACH STA 45+77.76 TO 62+35.68 MM 0.867 TO 1.181	1,657.92	0.314
TOTAL LENGTH OF PROJECT:	5,105.76 FEET	= 0.967 MILE
TOTAL LENGTH OF ROADWAY:	5,105.76 FEET	= 0.967 MILE

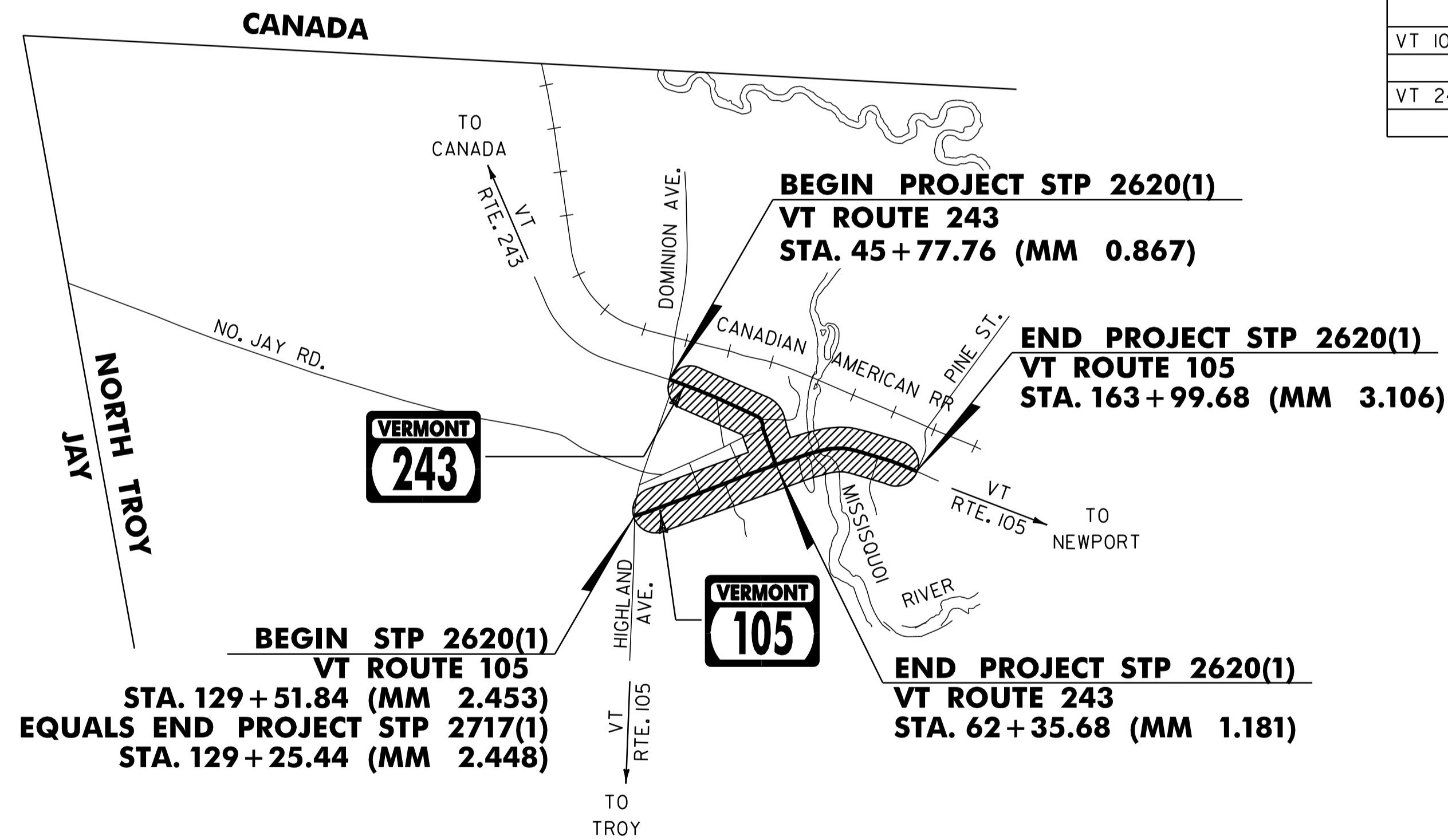
WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING AND RESURFACING OF THE EXISTING HIGHWAY WITH A LEVELING COURSE AND WEARING COURSE, NEW PAVEMENT MARKINGS, GUARD RAIL, SIGNS AND OTHER INCIDENTAL ITEMS

**PROJECT  
STP 2620(1)**



SUPERPAVE BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESALS (VT ROUTE 105)	672,500
DESIGN LANE/DESIGN LIFE ESALS (VT ROUTE 243)	440,000
DESIGN NUMBER OF GYRATIONS	65
PERFORMANCE GRADE ASPHALT BINDER	SEE SECTION 490 GENERAL SPECIAL PROVISIONS

LOCATION	AADT		DHV		ESALS	
	2009	2019	2009	2019	2009-2019	2009-2029
VT 105: BEGIN PROJECT TO VT 243	1,100	1,200	120	130	319,000	762,000
VT 243 TO END PROJECT	2,100	2,400	230	260	557,000	1,345,000
VT 243: BEGIN PROJECT TO MAIN STREET	820	900	90	100	207,000	523,000
MAIN STREET TO END PROJECT	1,300	1,500	150	170	334,000	880,000



### CONVENTIONAL SYMBOLS

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

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

DATUM  
VERTICAL N/A  
HORIZONTAL N/A

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 PURPOSES.

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.

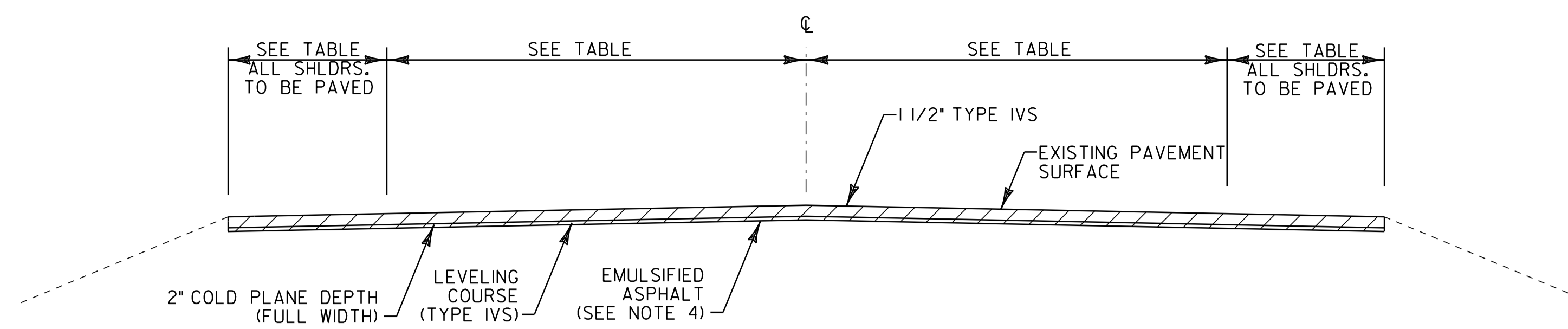
UNLESS OTHERWISE NOTED, ALL DRAWINGS AND DETAILS ON THESE PLANS ARE DRAWN "NOT TO SCALE".



**Stantec**

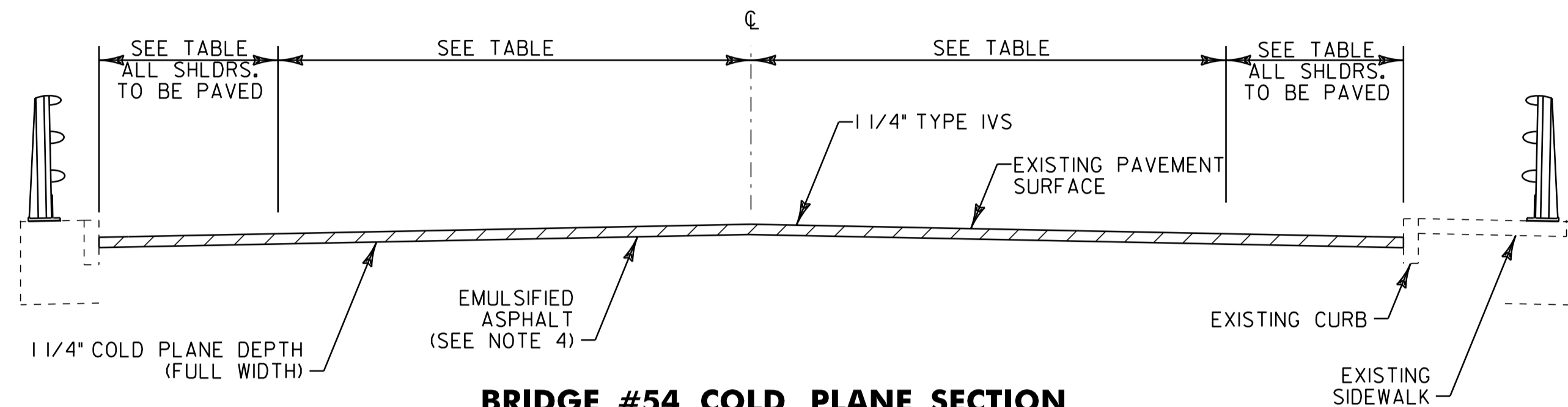
p06b208.dgn  
p06b2081.s1

PROJECT NAME : NORTH TROY  
PROJECT NUMBER : STP 2620(1)  
SHEET 76 OF 116 SHEETS



**COLD PLANE TYPICAL SECTION**

VT ROUTE 105 STA. 129+51.84 TO 149+88  
 VT ROUTE 105 STA. 151+49 TO 163+99.68  
 VT ROUTE 243 TROY STA. 45+77.76 TO 62+35.68



**BRIDGE #54 COLD PLANE SECTION**

VT ROUTE 105 STA. 149+88 TO 151+49  
 SEE BRIDGE COLD PLANE DETAIL AND SPECIFIC NOTES ON SHEET 78.

**PROJECT PAVING LIMITS**

TOWN & ROUTE	BEGIN STATION	END STATION	LANE TYPICAL	WEARING DEPTH	LEVELING		NOTES
					TONS		
NORTH TROY VT ROUTE 105	129+51.84	130+32	VARIES - 11'-0" - 11'-0" - VARIES	1 1/2"	14		COLD PLANE 2", LEVEL, AND THEN PAVE WITH 1 1/2" TYPE IVS
NORTH TROY VT ROUTE 105	130+32	130+82	VARIES - 11'-0" - 11'-0" - VARIES	1 1/2"	5		COLD PLANE 2", LEVEL, AND THEN PAVE WITH 1 1/2" TYPE IVS
NORTH TROY VT ROUTE 105	130+82	132+57	VARIES - 11'-0" - 11'-0" - VARIES	1 1/2"	15		COLD PLANE 2", LEVEL, AND THEN PAVE WITH 1 1/2" TYPE IVS
NORTH TROY VT ROUTE 105	132+57	144+14	1'-0" - 11'-0" - 11'-0" - 1'-0"	1 1/2"	95		COLD PLANE 2", LEVEL, AND THEN PAVE WITH 1 1/2" TYPE IVS
NORTH TROY VT ROUTE 105	144+14	149+88	VARIES - 11'-0" - 11'-0" - VARIES	1 1/2"	56		COLD PLANE 2", LEVEL, AND THEN PAVE WITH 1 1/2" TYPE IVS
NORTH TROY VT ROUTE 105	149+88	151+49	5'-6" - 11'-0" - 11'-0" - 5'-6"	1 1/4"	-		BR54-COLD PLANE 1 1/4 AND PAVE WITH 1 1/4 TYPE IVS
NORTH TROY VT ROUTE 105	151+49	155+65	VARIES - 11'-0" - 11'-0" - VARIES	1 1/2"	39		COLD PLANE 2", LEVEL, AND THEN PAVE WITH 1 1/2" TYPE IVS
NORTH TROY VT ROUTE 105	155+65	163+99.68	2'-0" - 11'-0" - 11'-0" - 2'-0"	1 1/2"	71		COLD PLANE 2", LEVEL, AND THEN PAVE WITH 1 1/2" TYPE IVS
NORTH TROY VT ROUTE 243	45+77.76	62+35.68	VARIES - 11'-0" - 11'-0" - VARIES	1 1/2"	168		COLD PLANE 2", LEVEL, AND THEN PAVE WITH 1 1/2" TYPE IVS

**URBAN AREAS - SEED MIXTURE**

% WT	LBS/A	NAME	PUR %	GERM %
42.5	34	CREeping RED FESCUE	98	85
10.0	8	PERENNIAL RYE GRASS	95	90
42.5	34	KENTUCKY BLUE GRASS	85	85
0	4	ANNUAL RYE GRASS	95	85
100	80			

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

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

FERTILIZER:  
 FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS/ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA.)

AGRICULTURAL LIMESTONE:  
 TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE RESIDENT ENGINEER.

TEMPORARY EROSION MATTING (ITEM 653.20):  
 TO BE PLACED ON EARTH SLOPES AS DIRECTED BY THE RESIDENT ENGINEER.

TOPSOIL:  
 TO BE USED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER.

**NOTES**

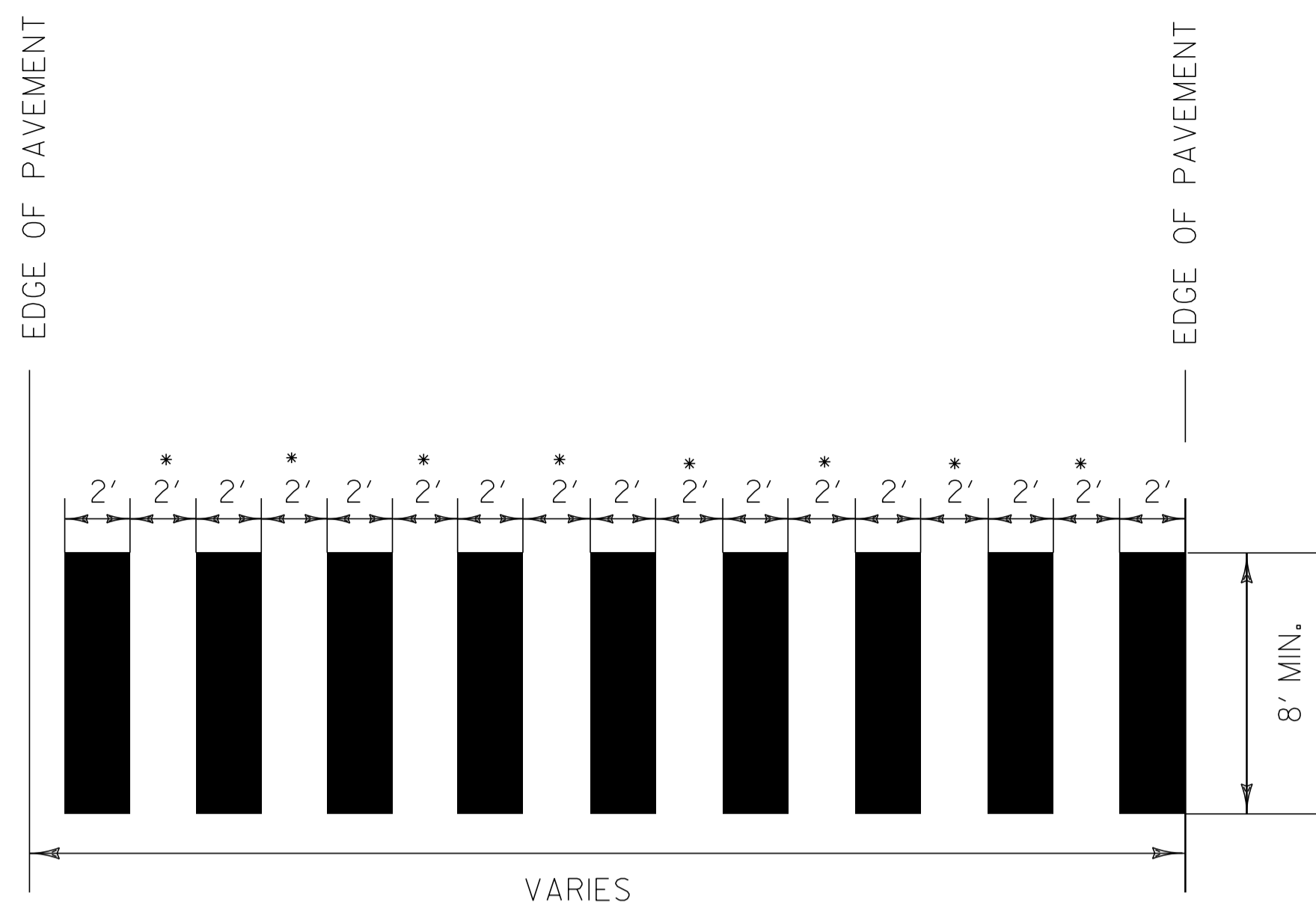
- THE PAVEMENT WEARING COURSE SHALL BE SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TYPE IVS. THE ESTIMATED 1/2" LEVELING COURSE SHALL BE SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TYPE IVS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- GRASS GROWING ADJACENT TO PAVEMENT OR THROUGH CRACKS IN THE PAVEMENT WHICH MAY 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 INCIDENTAL TO ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
- SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = ±1/4". (TOTAL THICKNESS EXCLUDING LEVELING)
- EMULSIFIED ASPHALT SHALL BE APPLIED ON EXISTING PAVEMENT SURFACES, BETWEEN ALL COURSES OF PAVEMENT AND ON COLD PLANED SURFACES, AT THE RATE OF 0.025 GAL/SY OR AS DIRECTED BY THE ENGINEER.
- COLD PLANING TO BE COMPLETED ACCORDING TO TYPICAL OR AS NOTED OTHERWISE ON THE PLANS. THE COLD PLANING AND PAVING SHALL MATCH THE EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AREAS BY THE USE OF A VERTICAL COLD PLANE JOINT. SEE DETAIL ON SHEET 78.
- ALL EDGES OF PAVEMENT WITHIN THE COLD PLANE SECTION SHALL BE BACKED UP TO FULL HEIGHT WITH COLD PLANE GRINDINGS AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER ITEM 402.13 AGGREGATE SHOULDERS, RAP.
- ESTIMATED QUANTITIES OF ITEMS 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I, ITEM 608.37 TRUCK RENTAL AND ITEM 608.40 LOADER RENTAL, TYPE I HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL END SECTION FLARES WITH EXCAVATED DITCHING MATERIAL. AN ESTIMATED QUANTITY OF 203.30 EARTH BORROW HAS BEEN INCLUDED IN THE CASE THAT THE DITCHING MATERIAL IS NOT SUITABLE TO USE IN THE GUARDRAIL END SECTION FLARE AREA. 25 CUBIC YARDS OF EARTH BORROW HAVE BEEN ESTIMATED FOR EACH NEW GUARDRAIL END SECTION FLARE. ITEM 653.20 TEMPORARY EROSION MATTING SHALL BE PLACED ON ALL SLOPES CREATED BY THE GUARDRAIL END SECTION FLARE. THE QUANTITIES INCLUDED REFLECT 25 SY OF ITEM 653.20 TEMPORARY EROSION MATTING FOR EACH NEW GUARDRAIL END SECTION FLARE.
- ALL DRIVES SHALL RECEIVE A PAVED APRON AS DIRECTED BY THE RESIDENT ENGINEER. SEE SHEET 83 FOR DETAILS AND PAYMENT PROVISIONS.
- SIDEWALK RAMP DETECTABLE WARNING SURFACES SHALL BE TRUNCATED DOME DETECTABLE WARNING PLATES FROM THE AGENCY'S APPROVED PRODUCT LIST.
- A QUANTITY FOR ITEM 604.412 REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I, ITEM 604.415 REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II, ITEM 604.418 REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS III AND ITEM 604.40 CHANGING ELEVATION OF DI, CB, OR MH HAS BEEN INCLUDED TO BE USED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER. ALL DI'S SHALL BE RAISED OR REHABILITATED SUCH THAT THE NEW GRATE ELEVATION IS EVEN WITH THE SURROUNDING TERRAIN. DRAINAGE STRUCTURES CALLING FOR REHAB HAVE BEEN EVENLY DISTRIBUTED BETWEEN ITEMS 604.412, 604.415, AND 604.418 FOR ESTIMATING PURPOSES.



NOT TO SCALE

**PROJECT TYPICAL SHEET**

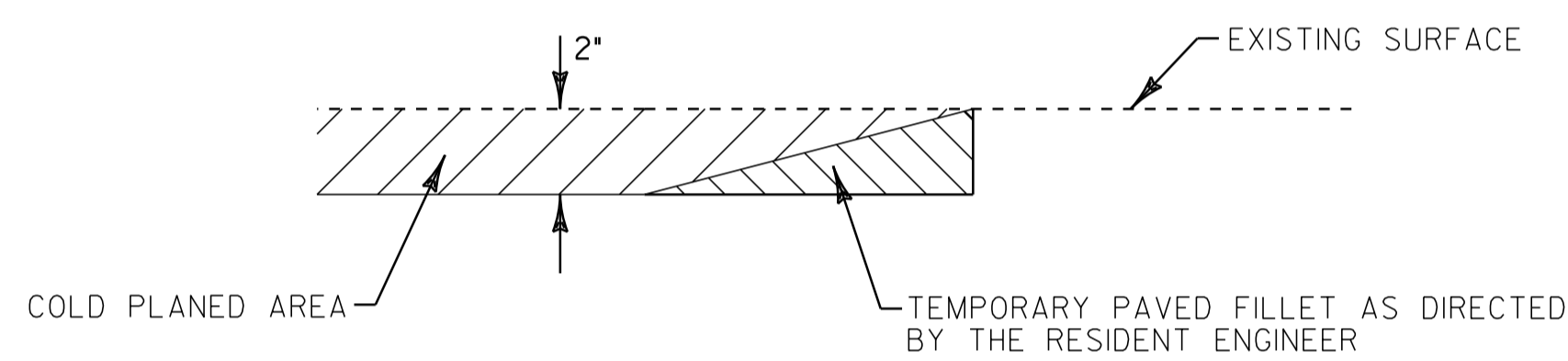
PROJECT NAME: NORTH TROY	
PROJECT NUMBER: STP 2620(1)	
FILE NAME: p06b208.dgn	PLOT DATE: 25-OCT-2011 14:03
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: MCF	CHECKED BY: JLL
IPARM FILE: p06b208pts.i	SHEET 77 OF 116



\* ADJUST SPACING (12"-24") TO AVOID WHEEL PATHS

### BLOCK PATTERN CROSSWALK DETAIL

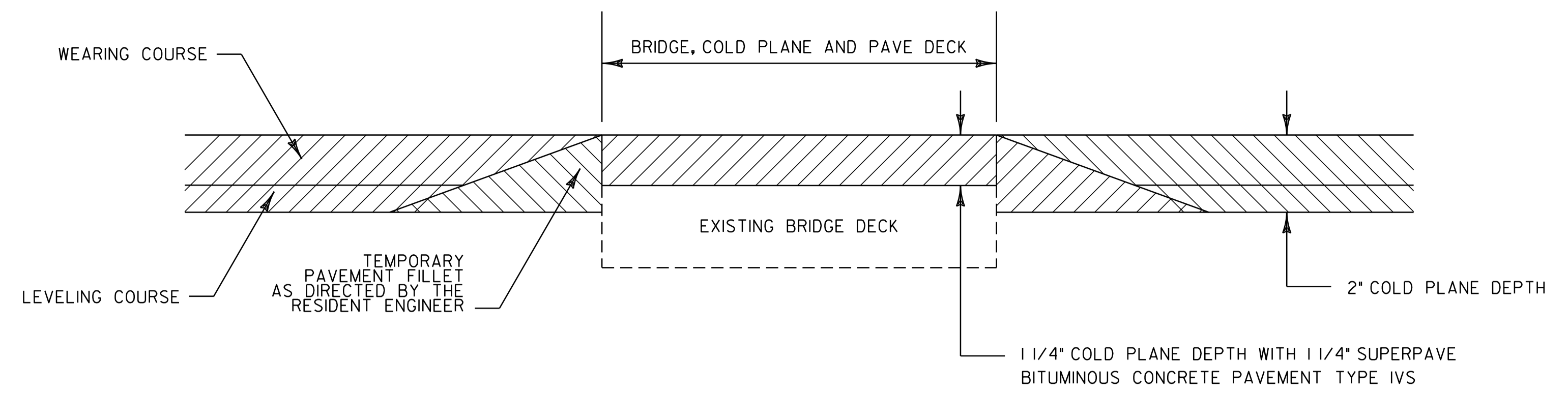
SEE LAYOUT SHEETS FOR LOCATIONS  
ALL BLOCK PATTERN CROSSWALKS SHALL BE  
INSTALLED PARALLEL WITH WHEEL PATHS.



### DETAIL AT VERTICAL COLD PLANE JOINTS

NOTE: THIS DETAIL SHALL BE USED FOR THE SIDE ROADS LISTED BELOW AND AT ALL DRIVES AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 210.10.

- FULL ROADWAY WIDTH
- VT ROUTE 105
  - STA. 129+51.84 (BEGIN PROJECT)
  - STA. 129+73 (HIGHLAND AVENUE)
  - STA. 137+29 (ROBINSON AVENUE)
  - STA. 140+08 (BLAIR ROAD)
  - STA. 142+38 (HIGH STREET)
  - STA. 148+53 (NASON TERRACE)
  - STA. 149+48 (NASON TERRACE)
  - STA. 157+64 (ELKINS DRIVE)
  - STA. 162+17 (PINE STREET)
  - STA. 163+99.68 (END PROJECT)
  - VT ROUTE 243
  - STA. 45+77.76 (BEGIN PROJECT)
  - STA. 46+18 (DOMINION AVENUE)
  - STA. 46+76 (ELM STREET)
  - STA. 51+68 (SCHOOL STREET)
  - STA. 57+21 (HILL STREET)
  - STA. 58+29 (MAIN STREET)

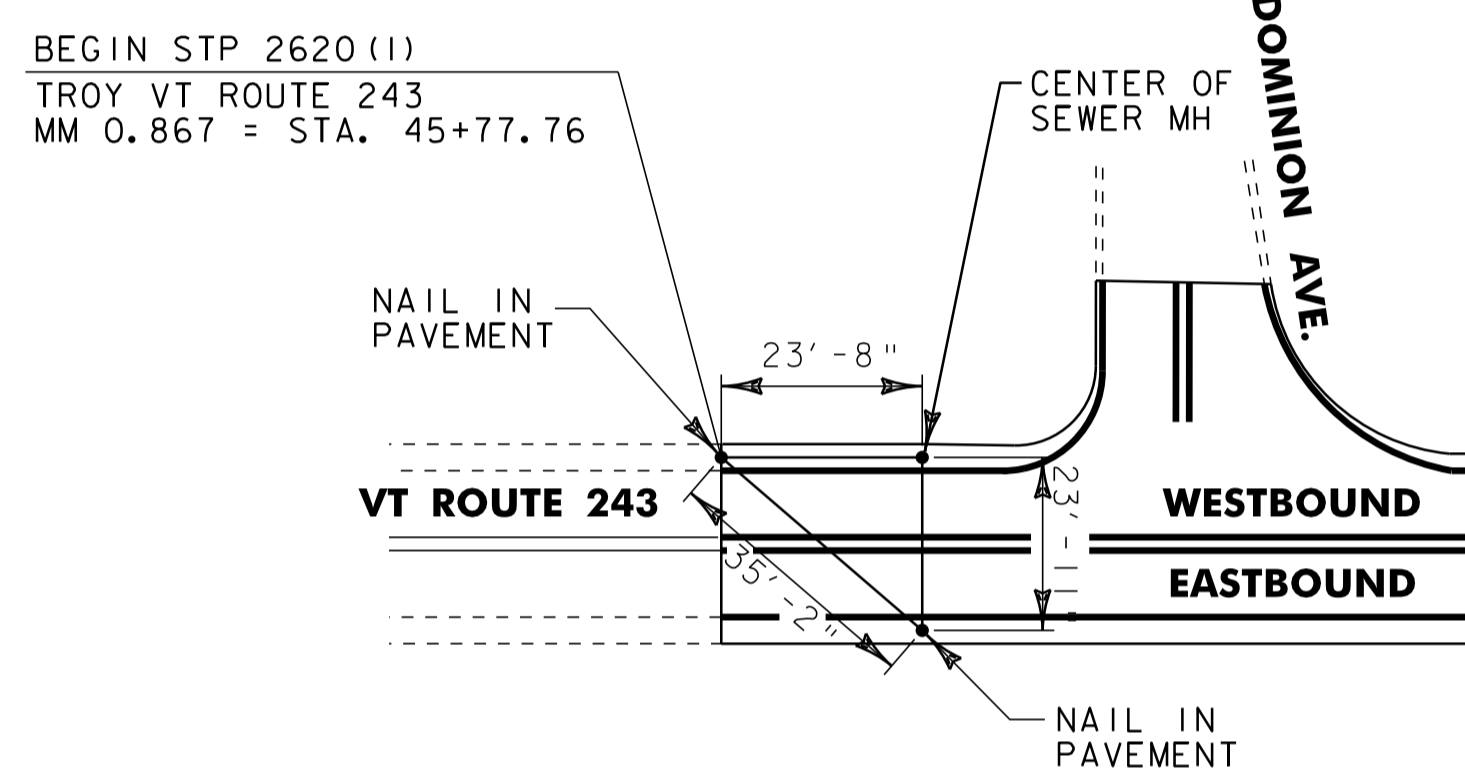


### BRIDGE COLD PLANE DETAIL

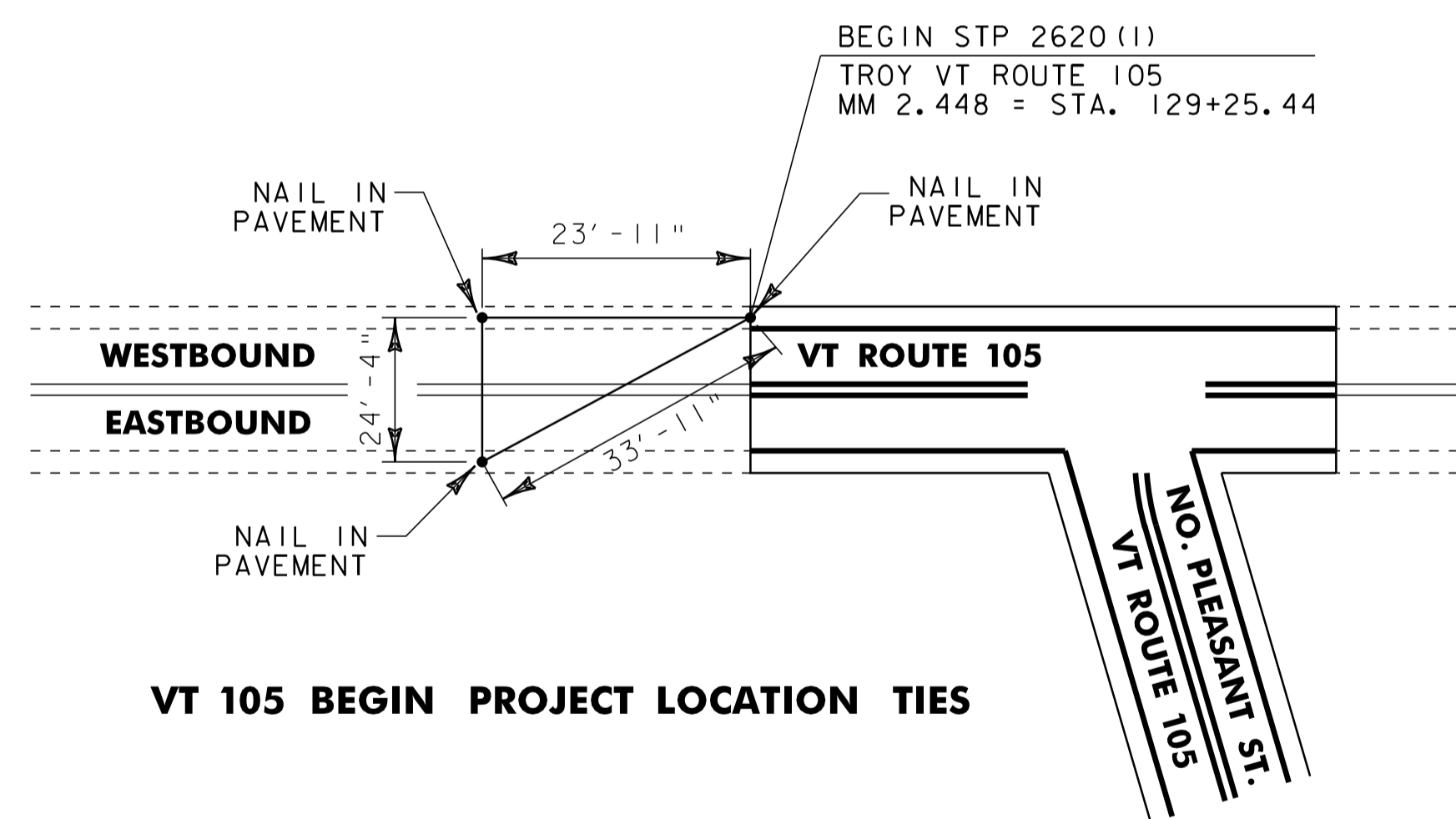
BR 54 STA. 150+69

#### NOTES:

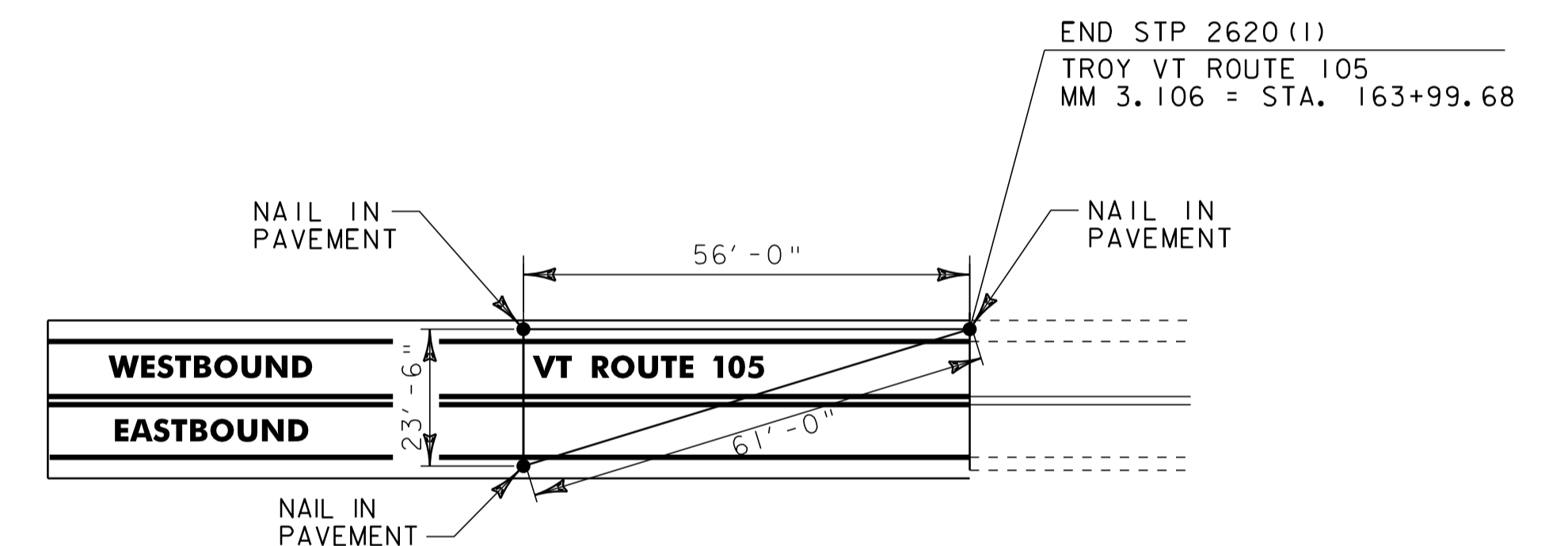
1. SEE SHEET 79 FOR ASPHALTIC PLUG JOINT DETAILS. ALL NEW JOINTS TO BE PAID UNDER ITEM 516.10 BRIDGE EXPANSION JOINT, ASPHALTIC PLUG.
2. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGING DRAINAGE STRUCTURES AND EXPANSION JOINTS. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE EXPENSE OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID THE ACCUMULATIONS OF DEBRIS IN THE DRAINAGE STRUCTURES LOCATED AT CURB LINE AND IN THE EXPANSION JOINTS. THE CONTRACTOR SHALL EXAMINE THESE BRIDGE FEATURES ON A REGULAR BASIS TO ENSURE THAT DEBRIS HAS NOT ACCUMULATED. ANY DEBRIS WHICH IS PRESENT SHALL BE REMOVED BY THE CONTRACTOR AT THE EXPENSE OF THE CONTRACTOR.
4. THE CONTRACTOR SHALL PERFORM COLD PLANING WITH CAUTION. ANY DAMAGE OCCURRING TO THE MEMBRANE AS A RESULT OF COLD PLANING OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE MEMBRANE SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR.



### VT 243 BEGIN PROJECT LOCATION TIES



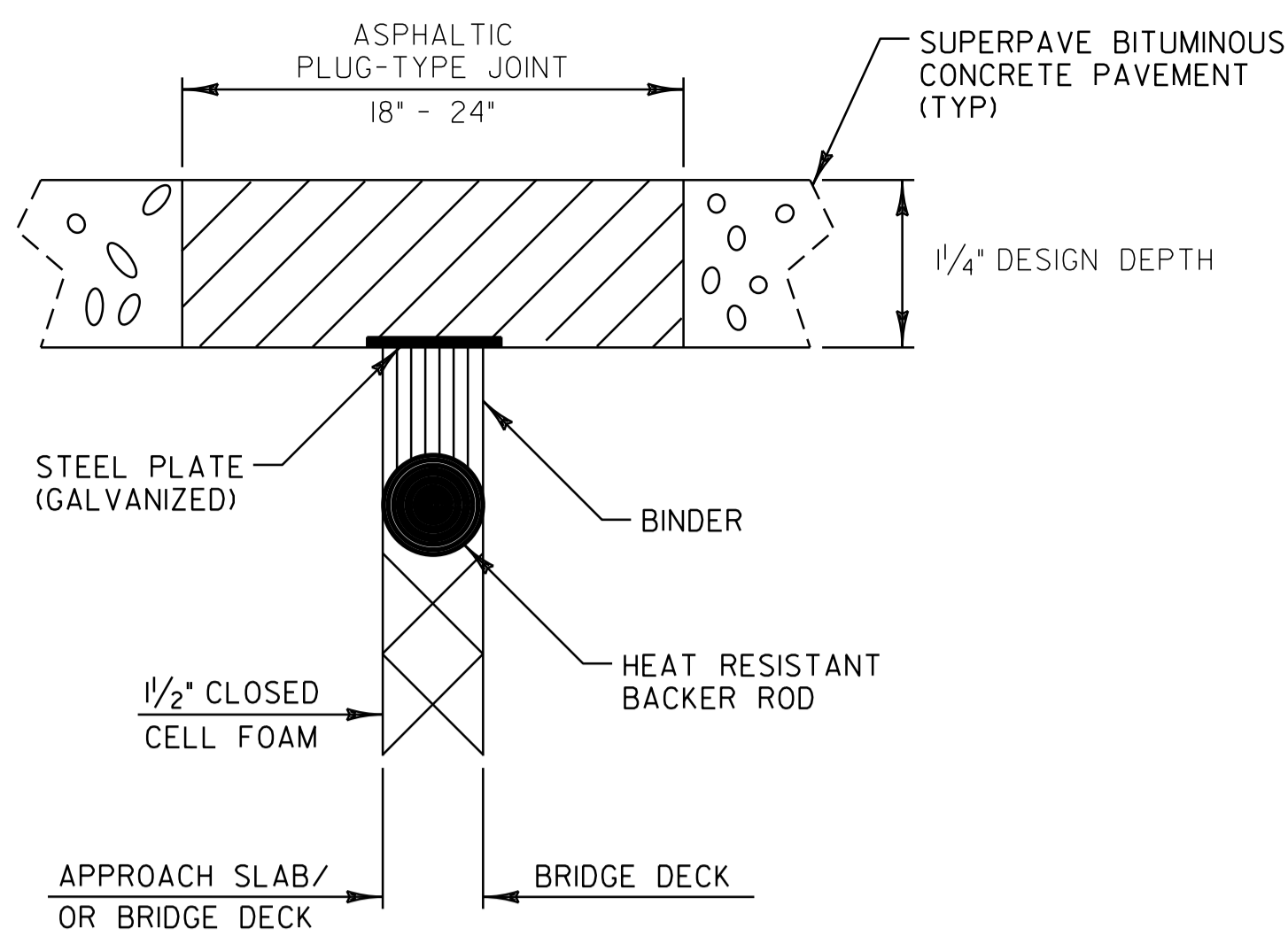
### VT 105 BEGIN PROJECT LOCATION TIES



### END PROJECT LOCATION TIES



NOT TO SCALE	
<b>MISCELLANEOUS DETAIL SHEET</b>	PROJECT NAME: NORTH TROY
	PROJECT NUMBER: STP 2620(1)
	FILE NAME: p06b208.dgn
	IPARM FILE: p06b208md.i
	PLOT DATE: 25-OCT-2011 14:03
	DRAWN BY: STANTEC
	CHECKED BY: JLL
	SHEET 78 OF 116



### ASPHALTIC PLUG-TYPE JOINT DETAIL

BR 54 VT ROUTE 105 NORTH TROY STA. 149+88 (33 LF)  
BR 54 VT ROUTE 105 NORTH TROY STA. 151+49 (33 LF)

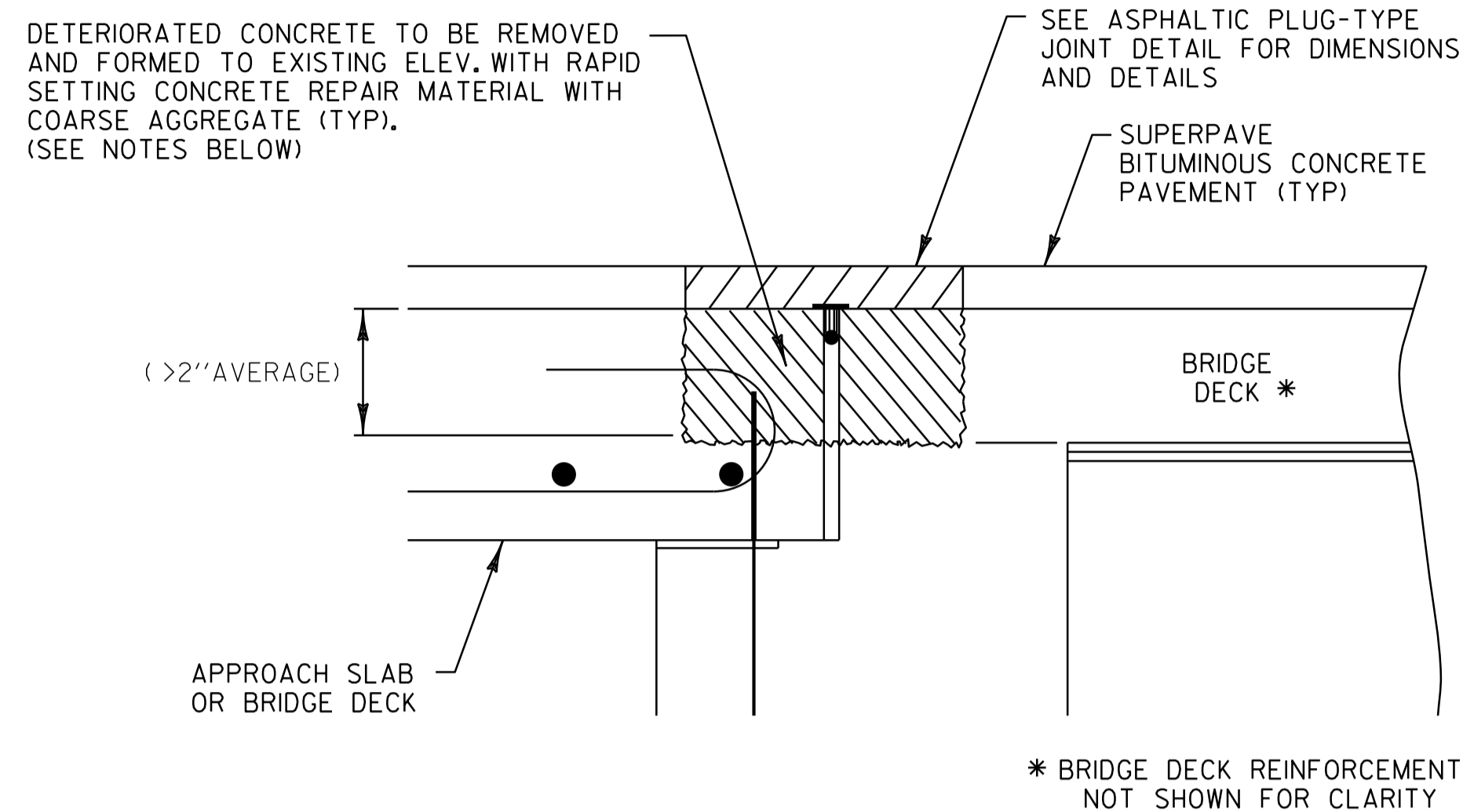
#### NOTES:

1. THE JOINT SHALL BE LOCATED CENTRALLY OVER THE DECK EXPANSION GAP OR FIXED JOINT MARKED OUT TO THE MANUFACTURER'S RECOMMENDED WIDTH.
2. THE JOINT SHALL BE EXCAVATED AS SHOWN ON THE PLANS BY USE OF SAWS AND PNEUMATIC HAMMER OR A HAMMER AND CHISEL.
3. THE JOINT AREA SHALL BE BLAST CLEANED OF DEBRIS AND ASPHALT. THE JOINT AREA SHALL BE THOROUGHLY DRIED USING HOT COMPRESSED AIR PRIOR TO APPLYING BINDER MATERIAL.
4. SPALLED AND DEFECTIVE CONCRETE SHALL BE REPAIRED WITH AN APPROVED MATERIAL AS AGREED UPON BY THE RESIDENT ENGINEER.
5. PROPERLY SIZED HEAT RESISTANT BACKER ROD SHALL BE PLACED IN THE MOVEMENT GAP ALLOWING FOR 1 INCH +/- OF BINDER ABOVE THE ROD.
6. THE BINDER MATERIAL SHALL BE HEATED AND PLACED AS RECOMMENDED BY THE MANUFACTURER.
7. PLACE 1/4 INCH THICK BY 8 INCH WIDE SECTIONS OF STEEL PLATE OVER THE CENTER OF THE MOVEMENT GAP. SECURE PLATES FROM MOVING BY INSERTING LOCATING PINS THROUGH THE PRESTAMPED HOLES INTO BACKER ROD AND COVER WITH HOT BINDER.
  - A. THE STEEL PLATES MAY BE OMITTED WHERE THE APPROACH SLAB IS COVERED WITH A STONE BASE OR BITUMINOUS PAVEMENT AND VERTICAL MOVEMENT OF THE PLATES MIGHT OCCUR.
8. THE BINDER MATERIAL AND AGGREGATE SHALL BE HEATED AND MIXED AS RECOMMENDED BY THE MANUFACTURER.
9. THE INSTALLATION OF MATERIAL, COMPACTION, AND TOPCOATING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
10. IMMEDIATELY AFTER TOPCOATING, AN ANTI-SKID MATERIAL SHALL BE CAST OVER THE JOINT TO REDUCE THE RISK OF TRACKING.
11. JOINT SHALL BE PROTECTED FROM TRAFFIC UNTIL THE MATERIAL HAS COOLED TO 125°F ±.

#### WEATHER LIMITATIONS

BINDER MATERIAL SHALL BE APPLIED ONLY WHEN THE FOLLOWING CONDITIONS PREVAIL:

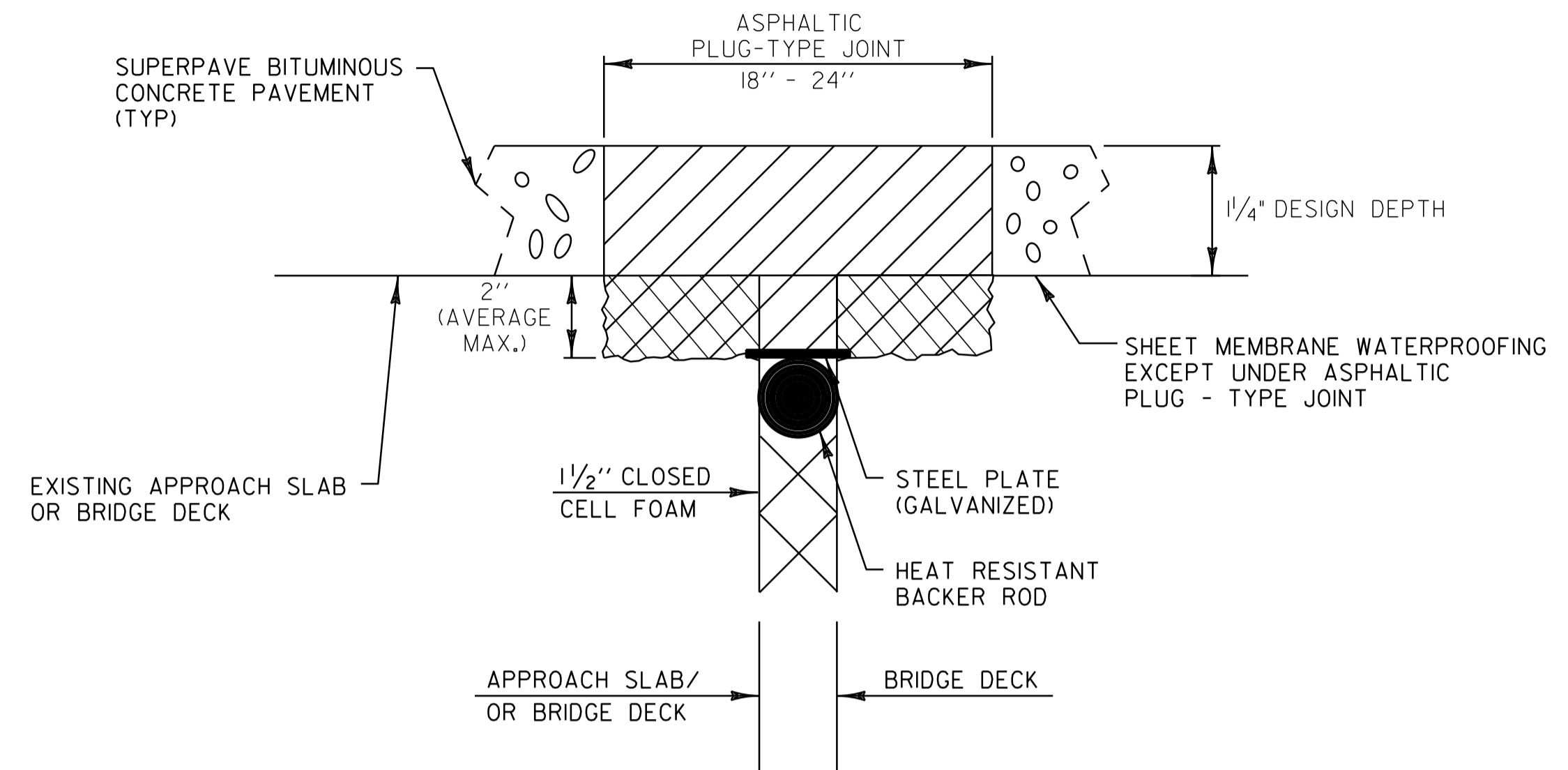
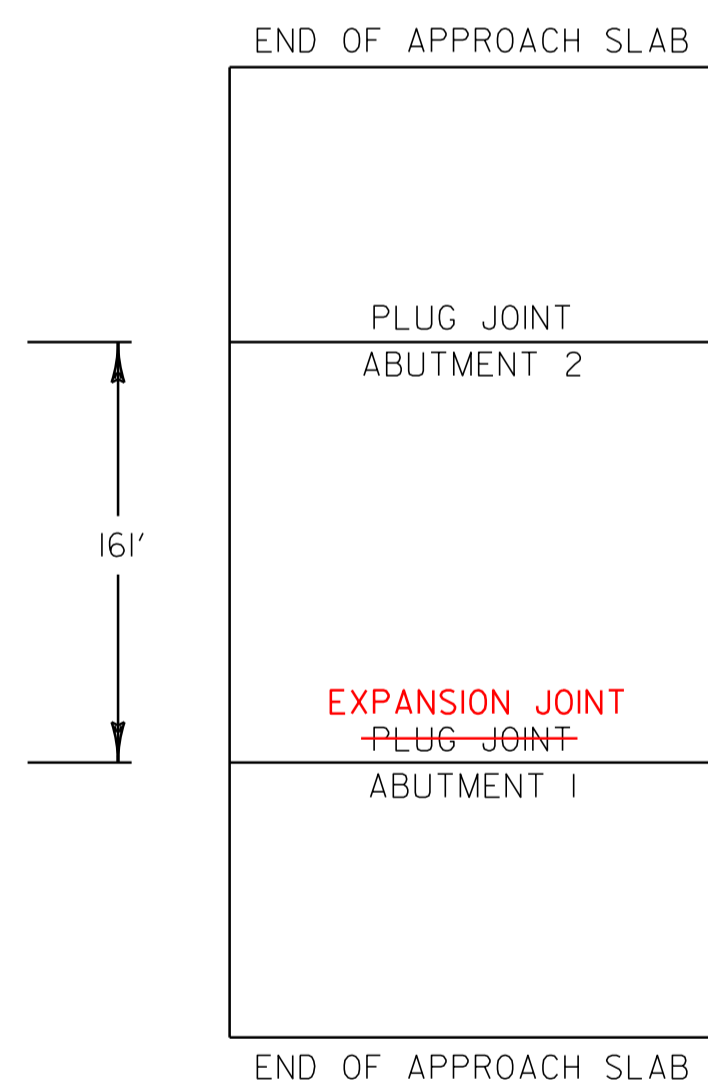
- A. THE AMBIENT AIR TEMPERATURE IS AT LEAST 50 F AND RISING.
- B. THE ROAD SURFACE IS SUFFICIENTLY DRY.
- C. WEATHER CONDITIONS OR OTHER CONDITIONS ARE FAVORABLE AND ARE EXPECTED TO REMAIN SO FOR THE PERFORMANCE OF SATISFACTORY WORK.



### ASPHALTIC PLUG-TYPE JOINT DETAIL REMOVAL OF >2" DETERIORATED CONCRETE

#### NOTES:

1. UPON ENCOUNTERING GREATER THAN 2" AVERAGE OF DETERIORATED CONCRETE, THE CONTRACTOR SHALL REMOVE THE DETERIORATED MATERIAL AND REPLACE IT WITH RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE.
2. REMOVAL OF THE DETERIORATED CONCRETE WILL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 580.20 RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE.
3. THE STEEL PLATE IN THE ASPHALTIC PLUG JOINT MAY BE OMITTED ONLY IF THE REPAIRED SURFACE IS SO IRREGULAR IT WILL CAUSE VERTICAL MOVEMENT AND IT IS DIRECTED BY THE RESIDENT ENGINEER.



### ASPHALTIC PLUG-TYPE JOINT DETAIL REMOVAL OF UP TO 2" DETERIORATED CONCRETE

#### NOTES:

1. UPON ENCOUNTERING UP TO 2" AVERAGE OF DETERIORATED CONCRETE, THE CONTRACTOR SHALL REMOVE THE DETERIORATED MATERIAL AND REPLACE IT WITH THE ASPHALTIC PLUG JOINT MATERIAL AS DIRECTED BY THE RESIDENT ENGINEER.
2. REMOVAL OF THE DETERIORATED CONCRETE WILL NOT BE PAID SEPARATELY BUT WILL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE BID FOR ITEM 516.10. THE ADDITIONAL PLUG JOINT MATERIAL BELOW THE DESIGN DEPTH REQUIRED TO REPLACE THE DETERIORATED CONCRETE WILL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE BID FOR THE ITEM 516.10.
3. THE STEEL PLATE IN THE ASPHALTIC PLUG JOINT MAY BE OMITTED ONLY IF THE REPAIRED SURFACE IS SO IRREGULAR IT WILL CAUSE VERTICAL MOVEMENT AND IT IS DIRECTED BY THE RESIDENT ENGINEER.



### ASPHALTIC PLUG JOINT DETAIL SHEET

NOT TO SCALE

PROJECT NAME: NORTH TROY  
PROJECT NUMBER: STP 2620(1)

FILE NAME: p06b208.dgn  
PROJECT LEADER: JLL  
DESIGNED BY: MCF  
IPARM FILE: p06b208apjds.i

PLOT DATE: 25-OCT-2011 14:03  
DRAWN BY: STANTEC  
CHECKED BY: JLL  
SHEET 79 OF 116

# QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES					TOTALS		DESCRIPTIONS			
ROADWAY	BRIDGE	EROSION CONTROL	FULL C.E.	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NO.	ROUND	
8				8		CY	COMMON EXCAVATION	203.15	-	
5				5		CY	SOLID ROCK EXCAVATION	203.16	0.8	
25				25		CY	EARTH BORROW	203.30	-	
1				1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	EST.	
16800				16800		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	173	
8				8		CY	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.26	0.7	
100				100		TON	AGGREGATE SHOULDERS, RAP	402.13	7	
70				70		CWT	EMULSIFIED ASPHALT	404.65	2.2	
1				1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-	
							BEGIN OPTION AA			
2000				2000		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (0% RAP CONTENT)	490.30	177	
2000				2000		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (0% < RAP CONTENT < 15.0%)	490.30	177	
2000				2000		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (15.0% <= RAP CONTENT < 25.0%)	490.30	177	
2000				2000		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (25.0% <= RAP CONTENT <= 50.0%)	490.30	177	
							END OPTION AA			
1				1		LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-	
	67			67		LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	1	
	100			100		CF	RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE	580.20	EST.	
1				1		EACH	CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES	604.40	EST.	
6				6		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	EST.	
5				5		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II	604.415	EST.	
5				5		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS III	604.418	EST.	
18				18		EACH	CHANGING ELEVATION OF SEWER MANHOLES	604.42	-	
30				30		HR	POWER GRADER RENTAL	608.15	EST.	
30				30		HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST.	
20				20		HR	POWER BROOM RENTAL, TYPE I	608.30	EST.	
30				30		HR	POWER BROOM RENTAL, TYPE II	608.31	EST.	
30				30		HR	TRUCK RENTAL	608.37	EST.	
30				30		HR	LOADER RENTAL, TYPE I	608.40	EST.	
1				1		MGAL	DUST CONTROL WITH WATER	609.10	0.3	
		160		160		CY	STONE FILL, TYPE I	613.10	4	
44				44		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.10	0.4	
60				60		SF	DETECTABLE WARNING SURFACE	618.30	4	
1				1		EACH	MANUFACTURED TERMINAL SECTION, TANGENT	621.51	-	
50				50		LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	-	
17				17		EACH	ADJUST ELEVATION OF VALVE BOX	629.20	-	
980				980		HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.	
2940				2940		HR	FLAGGERS	630.15	EST.	

DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS
		COLD PLANING - BITUMINOUS PAVEMENT
9267	SY	MAINLINE - VT ROUTE 105
590	SY	BRIDGE #54
5338	SY	MAINLINE - VT ROUTE 243
1432	SY	SIDE ROADS AND INTERSECTIONS
173	SY	ROUNDING
16800	SY	TOTAL
		SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
772	TON	MAINLINE - VT ROUTE 105 WEARING COURSE (TYPE IVS)
41	TON	BRIDGE #54 WEARING COURSE (TYPE IVS)
445	TON	MAINLINE - VT ROUTE 243 WEARING COURSE (TYPE IVS)
119	TON	SIDE ROADS WEARING COURSE (TYPE IVS)
446	TON	LEVELING (TYPE IVS)
177	TON	ROUNDING
2000	TON	TOTAL
		TEMPORARY EROSION MATTING
25	SY	M.T.S. TANGENT CONSTRUCTION
1815	SY	SEED PROTECTION
10	SY	ROUNDING
1850	SY	TOTAL

PROJECT NAME:	NORTH TROY	PLOT DATE:	25-OCT-2011 4:03
PROJECT NUMBER:	STP 2620(1)	DRAWN BY:	STANTEC
FILE NAME:	p06b208.dgn	CHECKED BY:	JLL
DESIGNED BY:	MCF	SHEET	80 OF 116
<b>IPARM FILE:</b>	<b>p06b208qs01.i</b>		

# QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES						TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
ROADWAY	BRIDGE	EROSION CONTROL	FULL C.E.	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NO.	ROUND	QUANTITIES	UNIT	ITEMS		
			0.25	0.25		LS	FIELD OFFICE, ENGINEERS	631.10	-					
			0.5	0.5		LS	TESTING EQUIPMENT, CONCRETE	631.16	-					
			0.25	0.25		LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-					
			0.2	0.2		LU	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.25	-					
			0.25	0.25		LS	MOBILIZATION/DEMOBILIZATION	635.11	-					
			1	1		LS	TRAFFIC CONTROL (STP 2620(I))	641.10	-					
			1	1		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-					
			9500	9500		LF	DURABLE 4 INCH WHITE LINE, THERMOPLASTIC	646.402	18					
			9400	9400		LF	DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC	646.412	91					
			100	100		LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482	6					
			35	35		EACH	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	2					
			380	380		LF	DURABLE CROSSWALK MARKING, THERMOPLASTIC	646.502	4					
			19100	19100		LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.602	136					
			18800	18800		LF	TEMPORARY 4 INCH YELLOW LINE, PAINT	646.612	182					
			200	200		LF	TEMPORARY 24 INCH STOP BAR, PAINT	646.682	12					
			70	70		EACH	TEMPORARY LETTER OR SYMBOL, PAINT	646.692	4					
			760	760		LF	TEMPORARY CROSSWALK MARKING, PAINT	646.702	8					
			500	500		EACH	LINE STRIPING TARGETS	646.76	11					
			710	710		SY	GEOTEXTILE UNDER STONE FILL	649.31	6					
			30	30		LB	SEED	651.15	EST.					
			250	250		LB	FERTILIZER	651.18	EST.					
			1	1		TON	AGRICULTURAL LIMESTONE	651.20	EST.					
			25	25		CY	TOPSOIL	651.35	EST.					
			1850	1850		SY	TEMPORARY EROSION MATTING	653.20	10					
			213	213		SF	TRAFFIC SIGNS, TYPE A	675.20	1.66					
			395	395		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	5					
			37	37		EACH	REMOVING SIGNS	675.50	-					
			1	1		LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	-					
			970	970		SY	SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)	900.675	10					

PROJECT NAME:	NORTH TROY
PROJECT NUMBER:	STP 2620(I)
FILE NAME:	p06b208.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	MCF
<b>IPARM FILE:</b>	<b>p06b208qs02.i</b>
PLOT DATE:	25-OCT-2011 4:03
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	81 OF 116

# ITEM DETAIL SUMMARY SHEET

LOCATION			GUARDRAIL		MISCELLANEOUS											
BEGIN STATION	END STATION	POS.	621.51	621.80	203.15	203.16	203.30	301.26	402.13	604.40	604.412	604.415	604.418	618.10	618.30	653.20
			MTS. TANGENT EA	REMOVAL & DISPOSAL OF GUARDRAIL LF	COMMON EXCAVATION CY	SOLID ROCK EXCAVATION CY	EARTH BORROW CY	SUBBASE CRUSHED GRAVEL FINE GRADED CY	AGGREGATE SHOULDERS, RAP TON	CHAN. ELEV. OF DI, CB OR MH EA	REHAB. DI, CB, OR MH, CLASS I EA	REHAB. DI, CB, OR MH, CLASS II EA	REHAB. DI, CB, OR MH, CLASS III EA	PORT. CEM. CONC. SIDEWALK, 5 INCH SY	DET. WARNING SURFACE SF	TEMPORARY EROSION MATTING SY
VT ROUTE 105																
129+51.8	163+99.7	LT-RT								1	4	3	3			
139+85	163+58	LT-RT							52							
148+42		RT			0.6			0.5						2.8	8	
148+64		RT			1.2			0.9						5.6	8	
149+35		RT			0.5	0.4		0.5						2.8	8	
149+70		RT			0.9	0.8		0.9						5.6	8	
151+80	152+30	RT	1	50				25								25
161+80		RT			1.8	1.5		1.8						10.6	8	
VT ROUTE 243																
44+77.8	62+20	LT-RT							41							
46+59	60+29	LT-RT									2	2	2			
51+35		LT			1.8	1.5		1.8						10.6	8	
58+57		RT			1.2			0.9						5.6	8	
SHEET SUBTOTALS:			1	50	8	4.2	25	7.3	93	1	6	5	5	43.6	56	25
ROUNDINGS:			-	-	-	0.8	-	0.7	7	-	-	-	-	0.4	4	-
TOTALS:			1	50	8	5	25	8	100	1	6	5	5	44	60	25

THIS SHEET NOT USED FOR RECORD PLANS. SEE LAYOUT SHEETS FOR DETAILS.

## REMARKS

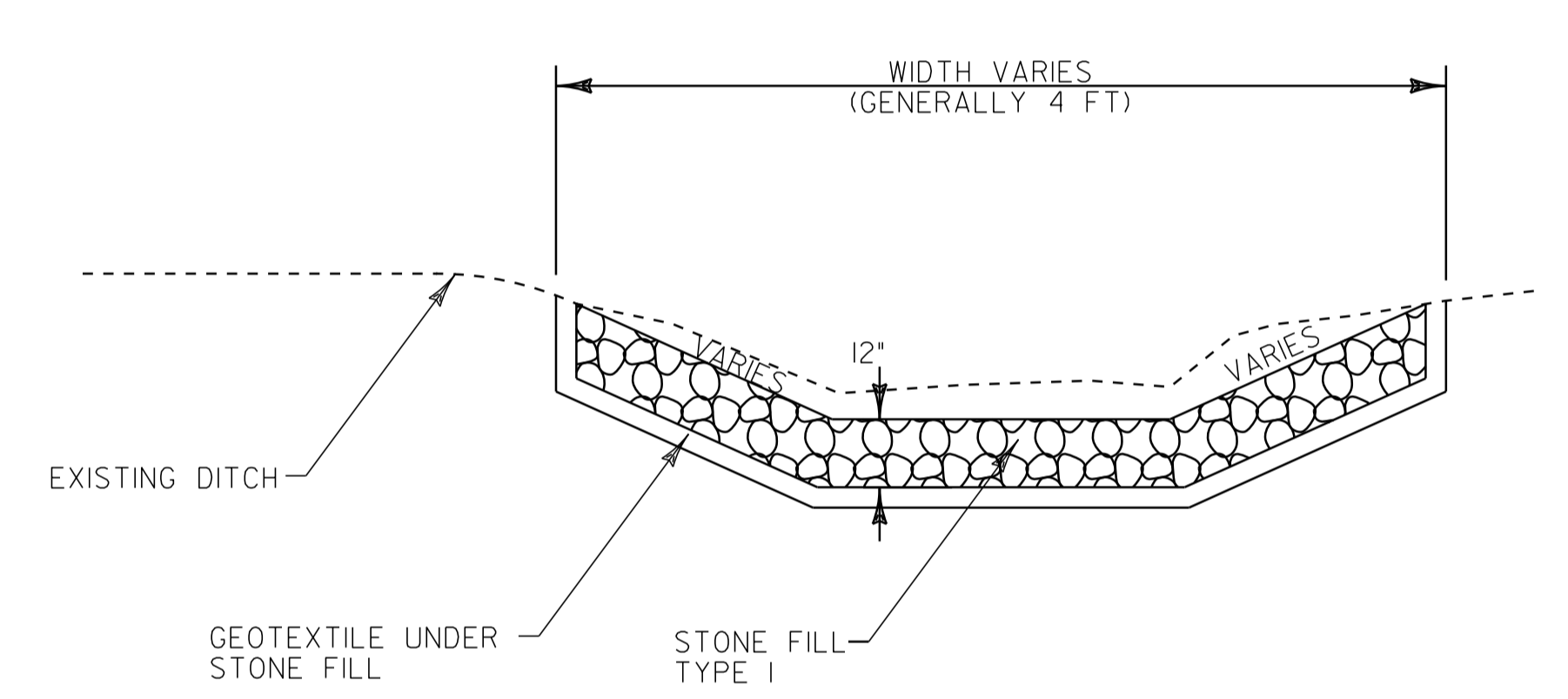
<b>ITEM DETAIL SUMMARY SHEET</b>	PROJECT NAME: NORTH TROY
	PROJECT NUMBER: STP 2620(1)
	FILE NAME: p06b208.dgn
	DESIGNED BY: MCF
	PLOT DATE: 25-OCT-2011 14:03
	DRAWN BY: STANTEC
	CHECKED BY: JLL
	SHEET 82 OF 116



LOCATION				FEET OF DITCHING			MISC. ITEMS			REMARKS
SITE	STATION	STATION	POS.	PERCENT GRADE			613.10	649.31	653.20	
				0-1	1-2.5	2.5-10	STONE FILL TYP. 1	GEOT. UNDER STONE FILL	TEMP. EROS. MATT.	
							CY	SY	SY	
VT ROUTE 105 TROY										
1	I51+54	I62+10	LT			1056	I56	704		
PROJECT SUBTOTALS (EST.)						1056	I56	704		
ROUNDING						-	4	6		
PROJECT TOTALS						1056	I60	710		

LOCATION				FEET OF DITCHING			MISC. ITEMS			REMARKS
SITE	STATION	STATION	POS.	PERCENT GRADE			613.10	649.31	653.20	
				0-1	1-2.5	2.5-10	STONE FILL TYP. 1	GEOT. UNDER STONE FILL	TEMP. EROS. MATT.	
							CY	SY	SY	
VT ROUTE 105 TROY										
1	I51+54	I62+10	LT			1056	I56	704		
PROJECT SUBTOTALS (EST.)						1056	I56	704		
ROUNDING						-	4	6		
PROJECT TOTALS						1056	I60	710		

LOCATION				FEET OF DITCHING			MISC. ITEMS			REMARKS
SITE	STATION	STATION	POS.	PERCENT GRADE			613.10	649.31	653.20	
				0-1	1-2.5	2.5-10	STONE FILL TYP. 1	GEOT. UNDER STONE FILL	TEMP. EROS. MATT.	
							CY	SY	SY	
VT ROUTE 105 TROY										
1	I51+54	I62+10	LT			1056	I56	704		
PROJECT SUBTOTALS (EST.)						1056	I56	704		
ROUNDING						-	4	6		
PROJECT TOTALS						1056	I60	710		



**DITCH DETAIL**

- NOTES:
- PIPE INLET AND OUTLET AREAS, AND DITCH CLEANING THROUGH PROJECT, SHALL BE PERFORMED AT LOCATIONS INDICATED ON THIS SHEET AND AS DIRECTED BY THE VAOT RESIDENT ENGINEER. PAYMENT WILL BE UNDER THE APPLICABLE EQUIPMENT RENTAL ITEM(S).
  - ESTIMATED QUANTITIES OF TEMPORARY EROSION MATTING, SEED, AND STONE FILL TYPE I HAVE BEEN INCLUDED. DITCHES WITH A GRADE LESS THAN 1 PERCENT SHALL BE SEEDED. TEMPORARY EROSION MATTING SHALL BE USED IN ALL DITCHES WITH A GRADE BETWEEN 1 AND 2.5 PERCENT. STONE FILL, TYPE I SHALL BE USED IN ALL DITCHES WITH A GRADE BETWEEN 2.5 AND 10 PERCENT OR AS DIRECTED BY THE VAOT RESIDENT ENGINEER.



<b>DITCH CLEANING DETAIL SHEET</b>	PROJECT NAME: NORTH TROY	PLOT DATE: 25-OCT-2011 4:03
	PROJECT NUMBER: STP 2620(1)	DRAWN BY: STANTEC
	FILE NAME: p06b208.dgn	CHECKED BY: JLL
	PROJECT LEADER: JLL DESIGNED BY: MCF IPARM FILE: p06b208dcs.i	SHEET 84 OF 116

604.42 CHANGING ELEVATION OF SEWER MANHOLES  
 STA. 129+78, LT  
 STA. 131+85, LT

629.20 ADJUST ELEVATION OF VALVE BOX  
 STA. 129+75, LT

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 129+52 TO 133+00, SOLID LT & RT  
 (INCLUDING SMALL SECTION OF HIGHLAND AVE.)

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 129+52 TO 133+00, SOLID LT & RT  
 (INCLUDING SMALL SECTION OF HIGHLAND AVE.)

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC  
 STA. 129+91, LT

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC  
 STA. 130+04, LT "STOP"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 129+52 TO 133+00, SOLID LT & RT  
 (INCLUDING SMALL SECTION OF HIGHLAND AVE.)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 129+52 TO 133+00, SOLID LT & RT  
 (INCLUDING SMALL SECTION OF HIGHLAND AVE.)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT  
 STA. 129+91, LT

646.692 TEMPORARY LETTER OR SYMBOL, PAINT  
 STA. 130+04, LT "STOP"

675.50 REMOVING SIGNS  
 AS SHOWN - 7

**BEGIN STP 2620(1)**  
**VT ROUTE 105 NORTH TROY**  
**STA. 129+51.84=MM 2.453**  
**EQUALS END STP 2717(1)**  
**STA. 129+25.44=MM 2.448**

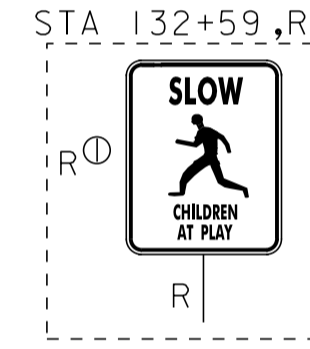
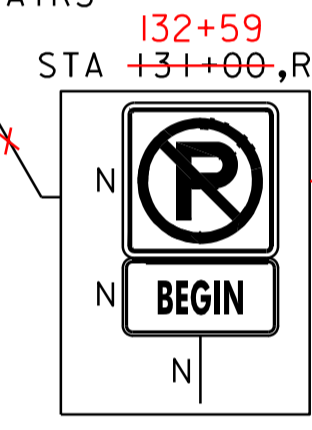
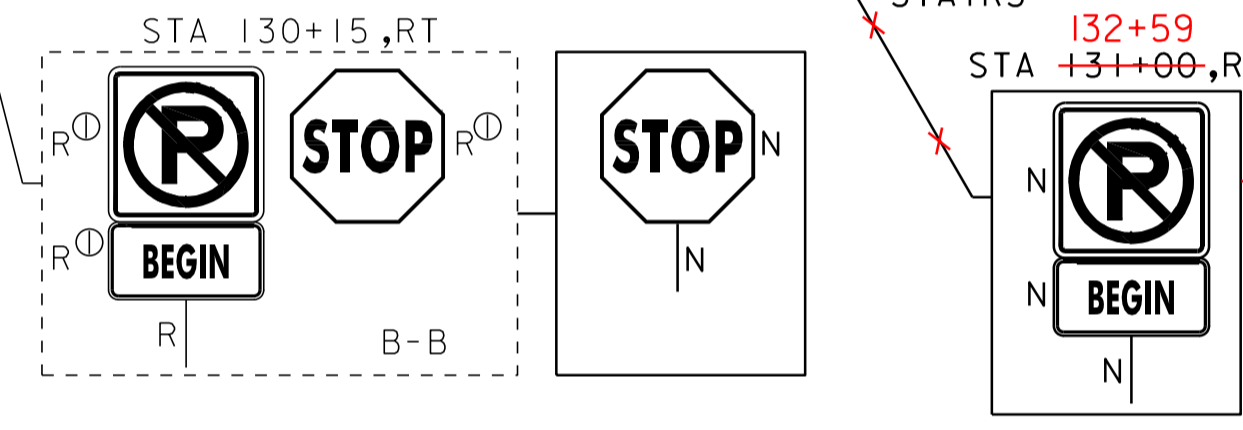
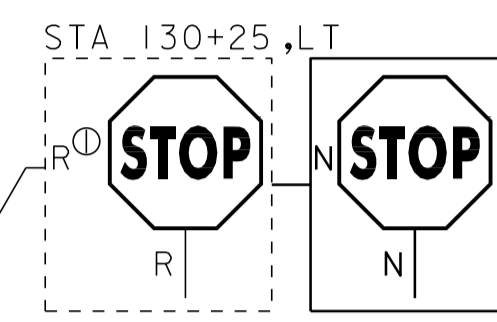
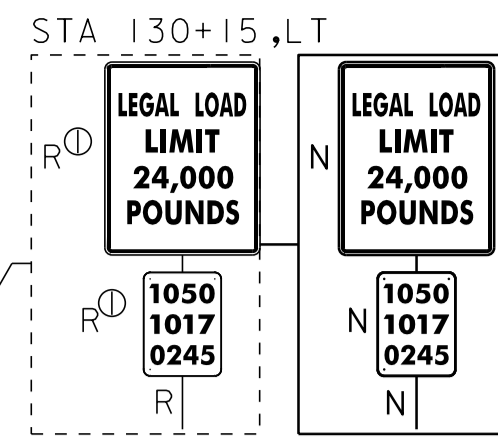
# MATCH EXISTING  
 PAVEMENT MARKINGS

# 1'-0" # 1'-0" # 1'-0" # 2'-0"

# 2'-0" # 1'-0" # 1'-0" # 2'-0"

\* MATCH PAVEMENT MARKINGS  
 PER PROJECT STP 2717 (1)

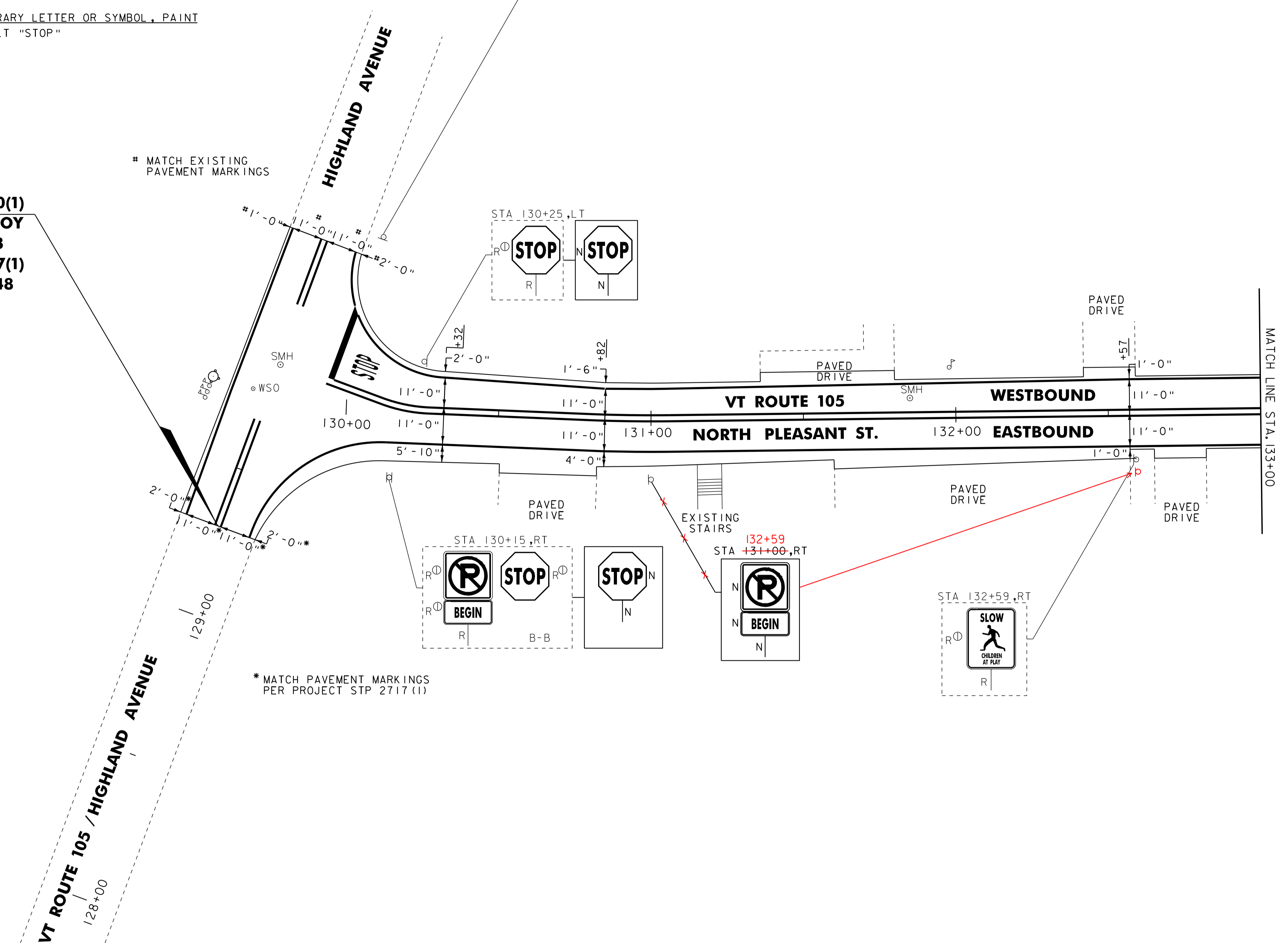
VT ROUTE 105 / HIGHLAND AVENUE  
 128+00  
 129+00



SIGN LEGEND	
N	= NEW
R	= REMOVE
R&S	= REMOVE & SALVAGE
S	= SALVAGE SIGN
RET	= RETAIN
B-B	= BACK TO BACK
R⊕	= REMOVE AND RETURN TO VILLAGE OF NORTH TROY

UTILITY LEGEND	
	= EXISTING HYDRANT
	= EXISTING DI
	= EXISTING MANHOLE
	= EXISTING TELEPHONE MANHOLE
	= EXISTING ELECTRIC MANHOLE
	= EXISTING SEWER MANHOLE
	= EXISTING WATER SHUTOFF
	= EXISTING GAS SHUTOFF
	= EXISTING MAILBOX
	= EXISTING POWER POLE
	= EXISTING TELEPHONE POLE
	= EXISTING SIGNAL HEAD
	= EXISTING PULL BOX
	= EXISTING VEHICLE DETECTOR LOOP
	= EXISTING GUARDRAIL
	= EXISTING RAILROAD



NOTE:  
 ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.



<b>PROJECT LAYOUT SHEET #1</b>	PROJECT NAME: NORTH TROY	PLOT DATE: 25-OCT-2011 4:03
	PROJECT NUMBER: STP 2620(1)	DRAWN BY: STANTEC
	FILE NAME: p06b208.dgn	CHECKED BY: JLL
	DESIGNED BY: MCF	SHEET 85 OF 116
	IPARM FILE: p06b208101.i	

604.42 CHANGING ELEVATION OF SEWER MANHOLES  
 STA. 134+84, LT  
 STA. 137+99, LT

629.20 ADJUST ELEVATION OF VALVE BOX  
 STA. 137+25, RT

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 (ALL LINES WILL INCLUDE EDGE LINE AND LANE LINE  
 BREAKS AND RADII FOR SIDE ROADS)  
 STA. 133+00 TO 138+00, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 (ALL LINES WILL INCLUDE C BREAKS FOR SIDE ROADS)  
 STA. 133+00 TO 138+00, SOLID LT & RT

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC  
 STA. 133+80, LT - "AHEAD"  
 STA. 134+20, LT - "STOP"

646.502 DURABLE CROSSWALK MARKING, THERMOPLASTIC  
 STA. 137+04, LT & RT

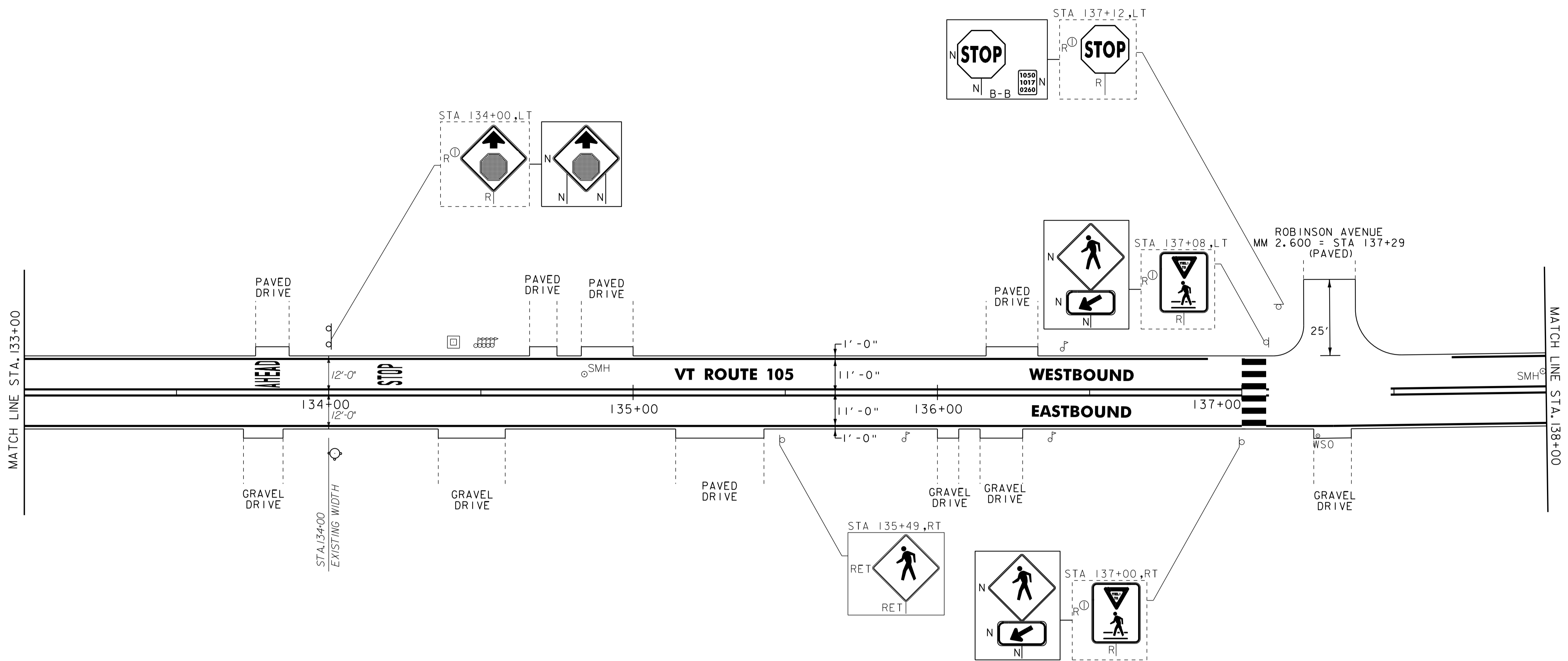
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 (ALL LINES WILL INCLUDE EDGE LINE AND LANE LINE  
 BREAKS AND RADII FOR SIDE ROADS)  
 STA. 133+00 TO 138+00, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 (ALL LINES WILL INCLUDE C BREAKS FOR SIDE ROADS)  
 STA. 133+00 TO 138+00, SOLID LT & RT

646.692 TEMPORARY LETTER OR SYMBOL, PAINT  
 STA. 133+80, LT - "AHEAD"  
 STA. 134+20, LT - "STOP"

646.702 TEMPORARY CROSSWALK MARKING, PAINT  
 STA. 137+04, LT & RT

675.50 REMOVING SIGNS  
 AS SHOWN - 4



NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1.

NOT TO SCALE



**PROJECT  
 LAYOUT  
 SHEET #2**

PROJECT NAME: NORTH TROY	PLOT DATE: 25-OCT-2011 14:03
PROJECT NUMBER: STP 2620(1)	DRAWN BY: STANTEC
FILE NAME: p06b208.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 86 OF 116
DESIGNED BY: MCF	
IPARM FILE: p06b208i02.i	

604.412, 604.415 OR 604.418 REHAB,  
Dis. CBS OR MHS, CLASS I, II OR III  
STA. 139+85, LT & RT  
STA. 141+83, LT & RT

604.42 CHANGING ELEVATION OF SEWER MANHOLES  
STA. 140+10, LT  
STA. 143+20, LT

629.20 ADJUST ELEVATION OF VALVE BOX  
STA. 139+95, RT  
STA. 142+30, RT

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
(ALL LINES WILL INCLUDE EDGE LINE AND LANE LINE  
BREAKS AND RADII FOR SIDE ROADS)  
STA. 138+00 TO 143+50, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
(ALL LINES WILL INCLUDE C BREAKS FOR SIDE ROADS)  
STA. 138+00 TO 143+50, SOLID LT & RT

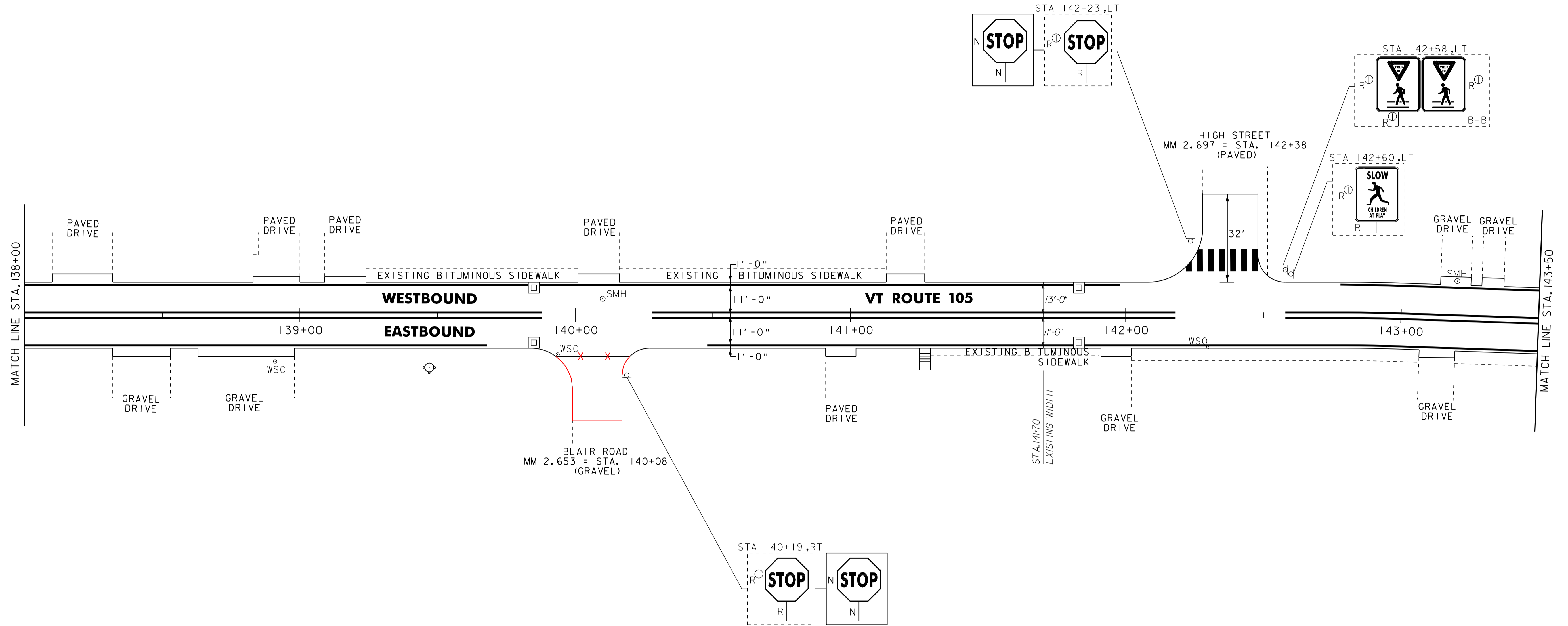
646.502 DURABLE CROSSWALK MARKING, THERMOPLASTIC  
STA. 142+20 TO 142+50, LT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
(ALL LINES WILL INCLUDE EDGE LINE AND LANE LINE  
BREAKS AND RADII FOR SIDE ROADS)  
STA. 138+00 TO 143+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
(ALL LINES WILL INCLUDE C BREAKS FOR SIDE ROADS)  
STA. 138+00 TO 143+50, SOLID LT & RT

646.702 TEMPORARY CROSSWALK MARKING, PAINT  
STA. 142+20 TO 142+50, LT

675.50 REMOVING SIGNS  
AS SHOWN - 5



NOTES:  
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
2. FOR LEGENDS, SEE LAYOUT SHEET #1.



NOT TO SCALE

**PROJECT  
LAYOUT  
SHEET #3**

PROJECT NAME: NORTH TROY	PLOT DATE: 25-OCT-2011 14:03
PROJECT NUMBER: STP 2620(1)	DRAWN BY: STANTEC
FILE NAME: p06b208.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 87 OF 116
DESIGNED BY: MCF	
IPARM FILE: p06b208103.i	

604.412, 604.415 OR 604.418 REHAB,  
DIS. CBS OR MHS, CLASS I, II OR III  
VT 105 STA. 144+92, LT

604.42 CHANGING ELEVATION OF SEWER MANHOLES  
VT 105 STA. 146+21, LT  
VT 105 STA. 148+66, LT

629.20 ADJUST ELEVATION OF VALVE BOX  
VT 105 STA. 148+57, RT

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
(ALL LINES WILL INCLUDE EDGE LINE AND LANE LINE  
BREAKS AND RADII FOR SIDE ROADS)  
VT 105 STA. 143+50 TO 149+00, SOLID LT & RT  
VT 243 STA. 60+50 TO 62+24, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
(ALL LINES WILL INCLUDE C BREAKS FOR SIDE ROADS)  
VT 105 STA. 143+50 TO 149+00, SOLID LT & RT  
VT 243 STA. 60+50 TO 62+21, SOLID LT & RT

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC  
VT 243 STA. 62+20, RT

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC  
VT 243 STA. 62+11, RT - "STOP"

646.502 DURABLE CROSSWALK MARKING, THERMOPLASTIC  
VT 105 STA. 145+81, LT & RT  
VT 105 STA. 148+44 TO 148+62, RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
(ALL LINES WILL INCLUDE EDGE LINE AND LANE LINE  
BREAKS AND RADII FOR SIDE ROADS)  
VT 105 STA. 143+50 TO 149+00, SOLID LT & RT  
VT 243 STA. 60+50 TO 62+24, SOLID LT & RT

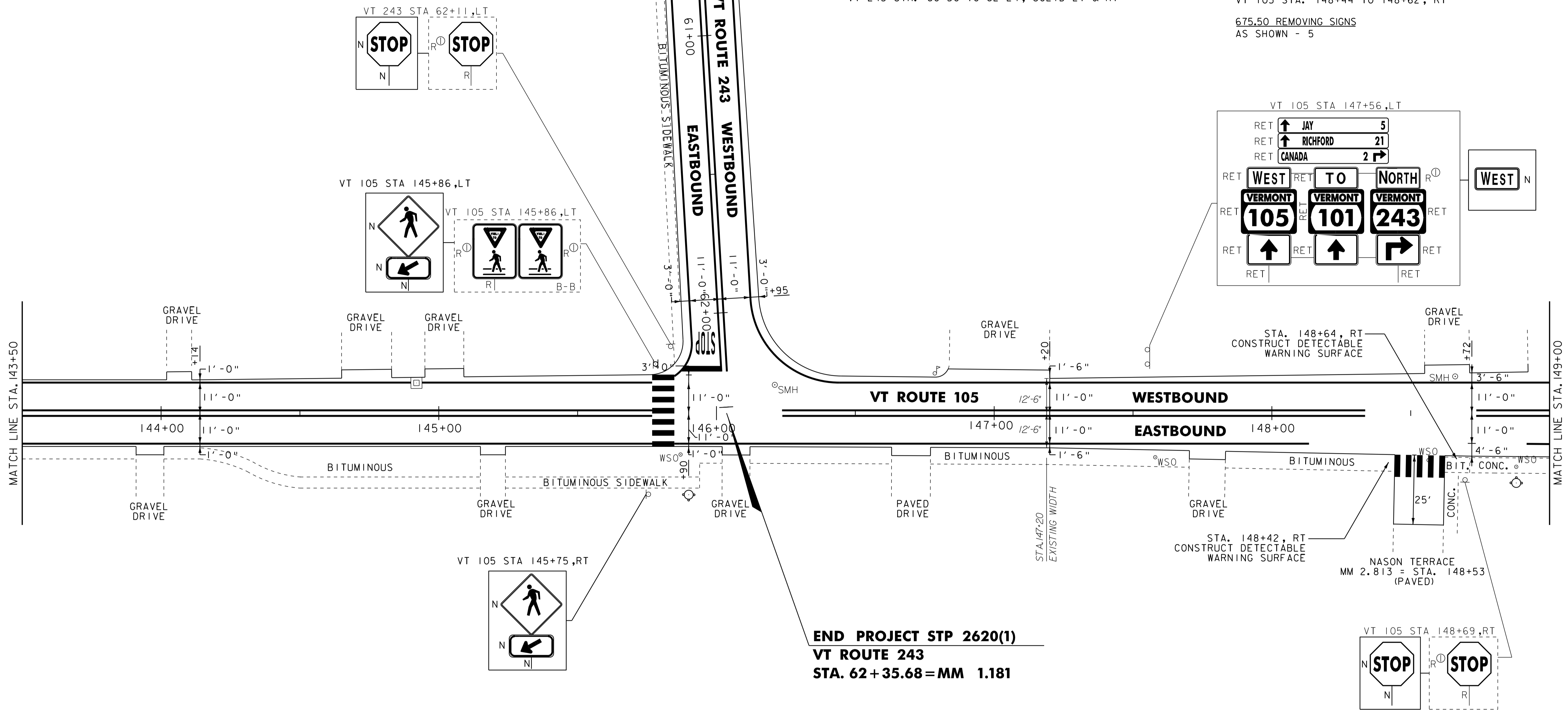
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
(ALL LINES WILL INCLUDE C BREAKS FOR SIDE ROADS)  
VT 105 STA. 143+50 TO 149+00, SOLID LT & RT  
VT 243 STA. 60+50 TO 62+21, SOLID LT & RT

646.682 TEMPORARY 24 INCH STOP BAR, PAINT  
VT 243 STA. 62+20, RT

646.692 TEMPORARY LETTER OR SYMBOL, PAINT  
VT 243 STA. 62+11, RT - "STOP"

646.702 TEMPORARY CROSSWALK MARKING, PAINT  
VT 105 STA. 145+81, LT & RT  
VT 105 STA. 148+44 TO 148+62, RT

675.50 REMOVING SIGNS  
AS SHOWN - 5



**END PROJECT STP 2620(1)**  
**VT ROUTE 243**  
**STA. 62+35.68 = MM 1.181**

- NOTES:  
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
2. FOR LEGENDS, SEE LAYOUT SHEET #1.



NOT TO SCALE

**PROJECT LAYOUT SHEET #4**

PROJECT NAME: NORTH TROY	PLOT DATE: 25-OCT-2011 14:03
PROJECT NUMBER: STP 2620(1)	DRAWN BY: STANTEC
FILE NAME: p06b208.dgn	CHECKED BY: JLL
DESIGNED BY: MCF	SHEET 88 OF 116
IPARM FILE: p06b208104.i	



629.20 ADJUST ELEVATION OF VALVE BOX  
 STA. 156+32, RT  
 STA. 156+33, RT  
 STA. 157+74, RT

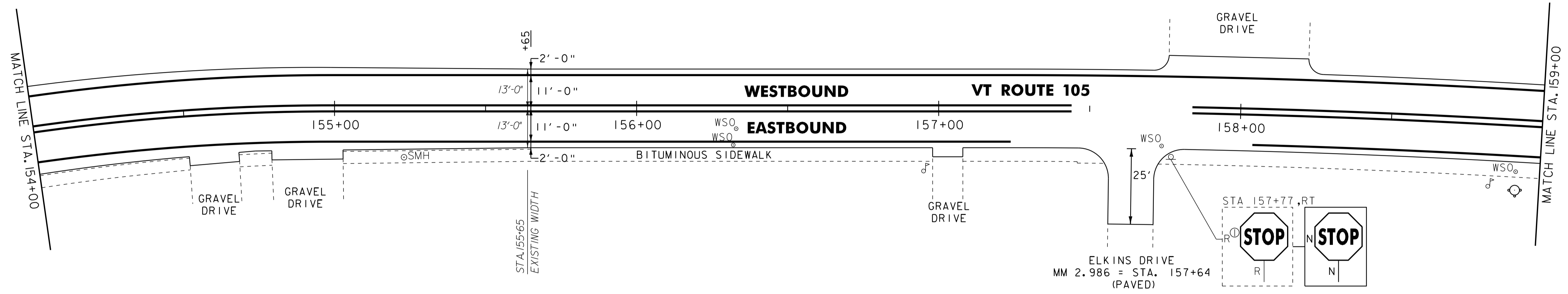
646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 (ALL LINES WILL INCLUDE EDGE LINE AND LANE LINE  
 BREAKS AND RADII FOR SIDE ROADS)  
 STA. 154+00 TO 159+00, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 (ALL LINES WILL INCLUDE EDGE LINE AND LANE LINE  
 BREAKS AND RADII FOR SIDE ROADS)  
 STA. 154+00 TO 159+00, SOLID LT & RT

675.50 REMOVING SIGNS  
 AS SHOWN - 1

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 (ALL LINES WILL INCLUDE  $\odot$  BREAKS FOR SIDE ROADS)  
 STA. 154+00 TO 159+00, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 (ALL LINES WILL INCLUDE  $\odot$  BREAKS FOR SIDE ROADS)  
 STA. 154+00 TO 159+00, SOLID LT & RT



NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1.



NOT TO SCALE

**PROJECT  
 LAYOUT  
 SHEET #6**

PROJECT NAME: NORTH TROY	PLOT DATE: 25-OCT-2011 14:03
PROJECT NUMBER: STP 2620(1)	DRAWN BY: STANTEC
FILE NAME: p06b208.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 90 OF 116
DESIGNED BY: MCF	
IPARM FILE: p06B208106.i	

604.42 CHANGING ELEVATION OF SEWER MANHOLES  
 STA. 160+12, LT  
 STA. 162+12, LT  
 STA. 163+65, LT

618.10 PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH  
 STA. 161+80, RT

618.30 DETECTABLE WARNING SURFACE  
 STA. 161+80, RT  
 162+10, LT

629.20 ADJUST ELEVATION OF VALVE BOX  
 STA. 162+13, RT  
 STA. 162+24, RT

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 (ALL LINES WILL INCLUDE EDGE LINE AND LANE LINE  
 BREAKS AND RADII FOR SIDE ROADS)  
 STA. 159+00 TO 164+00, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 (ALL LINES WILL INCLUDE C BREAKS FOR SIDE ROADS)  
 STA. 159+00 TO 164+00, SOLID LT & RT

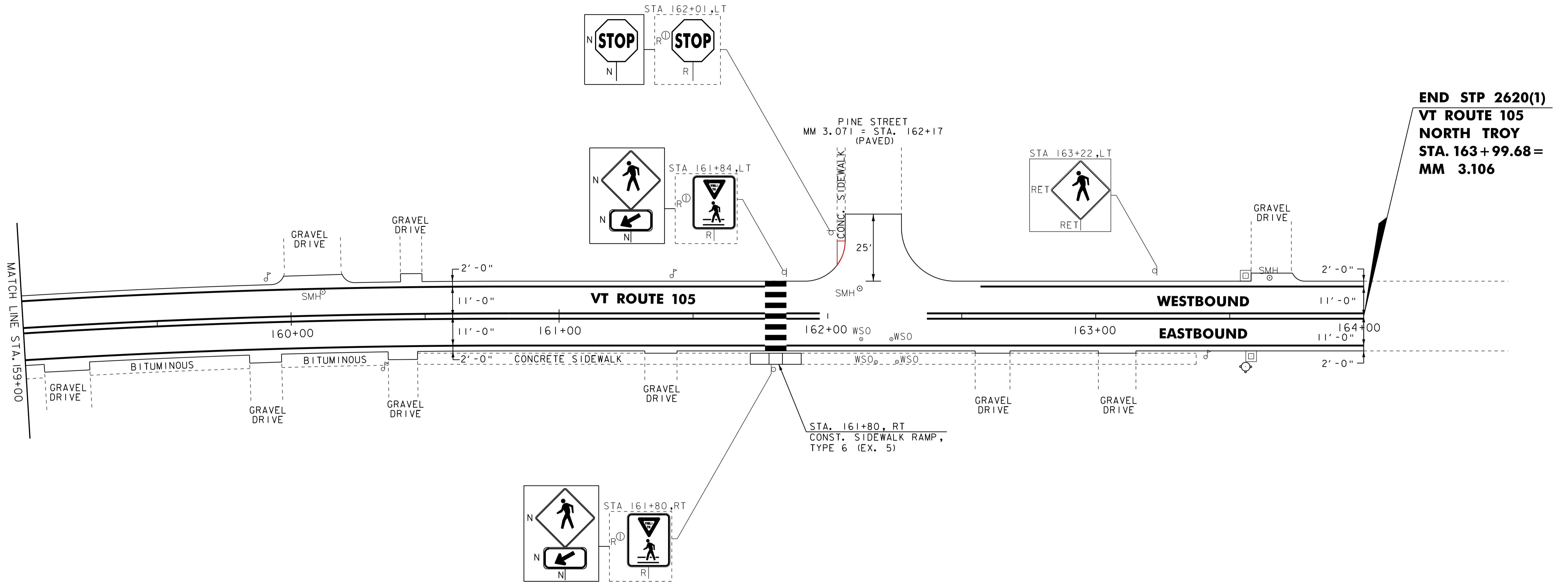
646.502 DURABLE CROSSWALK MARKING, THERMOPLASTIC  
 STA. 161+81, LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 (ALL LINES WILL INCLUDE EDGE LINE AND LANE LINE  
 BREAKS AND RADII FOR SIDE ROADS)  
 STA. 159+00 TO 164+00, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 (ALL LINES WILL INCLUDE C BREAKS FOR SIDE ROADS)  
 STA. 159+00 TO 164+00, SOLID LT & RT

646.702 TEMPORARY CROSSWALK MARKING, PAINT  
 STA. 161+81, LT & RT

675.50 REMOVING SIGNS  
 AS SHOWN - 3



NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1.

NOT TO SCALE



**PROJECT  
 LAYOUT  
 SHEET #7**

PROJECT NAME: NORTH TROY	PLOT DATE: 25-OCT-2011 4:03
PROJECT NUMBER: STP 2620(1)	DRAWN BY: STANTEC
FILE NAME: p06b208.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 91 OF 116
DESIGNED BY: MCF	
IPARM FILE: p06b208107.i	



604.412, 604.415 OR 604.418 REHAB.  
Dis. CBS OR MHS, CLASS I, II OR III  
STA. 50+55, RT  
STA. 50+72, LT

604.42 CHANGING ELEVATION OF SEWER MANHOLES  
STA. 51+93, LT

618.10 PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH  
STA. 51+35, LT

618.30 DETECTABLE WARNING SURFACE  
STA. 51+35, LT

629.20 ADJUST ELEVATION OF VALVE BOX  
STA. 51+56, RT  
STA. 51+59, RT

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
STA. 48+50 TO 54+50, SOLID LT & RT  
STA. 51+68, DOUBLE SOLID RT (SCHOOL ST. EDGELINES)

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
(ALL LINES WILL INCLUDE C BREAKS FOR SIDE ROADS)  
STA. 48+50 TO 54+50, SOLID LT & RT  
STA. 51+68, DOUBLE SOLID RT (SCHOOL ST.)

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC  
STA. 51+70, RT (SCHOOL ST.)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC  
STA. 51+79, RT - "STOP"

646.502 DURABLE CROSSWALK MARKING, THERMOPLASTIC  
STA. 48+87, LT & RT  
STA. 51+35, LT & RT  
STA. 51+44 TO 51+96, RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
STA. 48+50 TO 54+50, SOLID LT & RT  
STA. 51+68, DOUBLE SOLID RT (SCHOOL ST. EDGELINES)

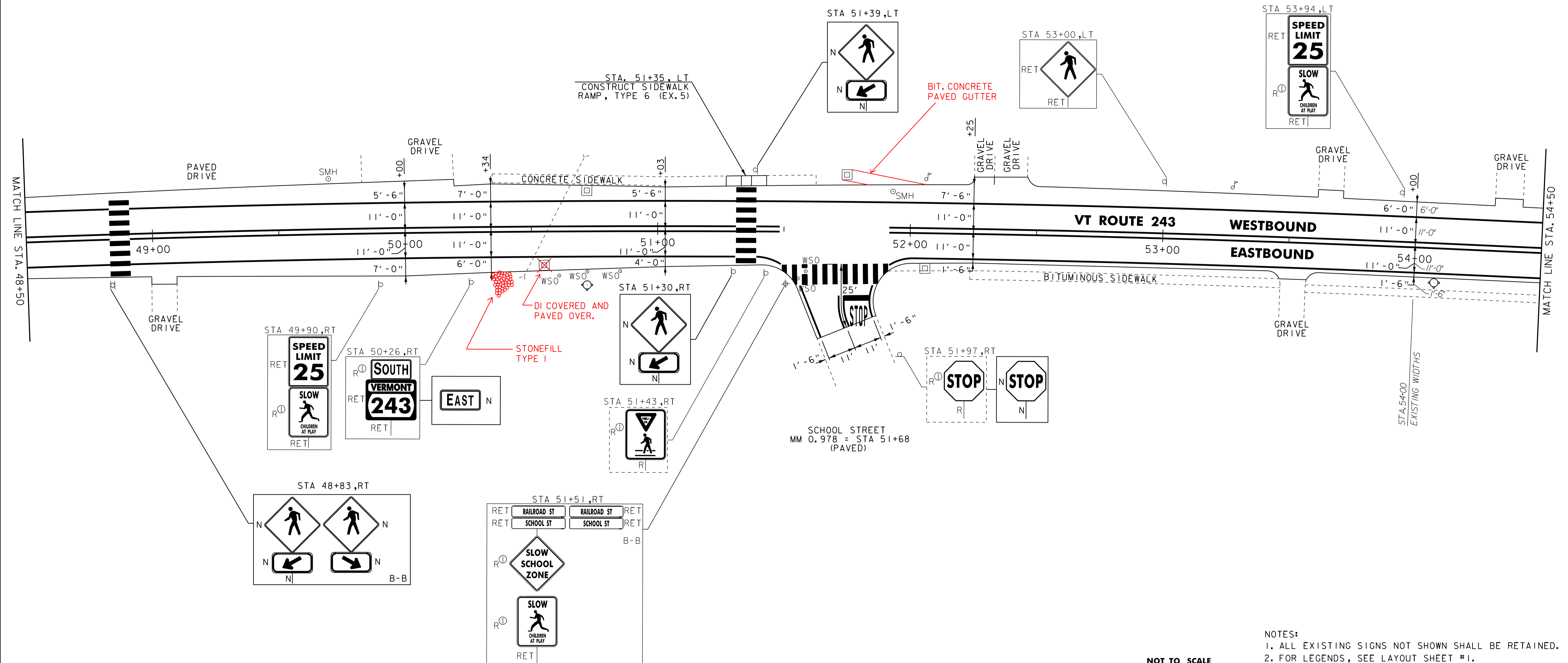
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
(ALL LINES WILL INCLUDE C BREAKS FOR SIDE ROADS)  
STA. 48+50 TO 54+50, SOLID LT & RT

646.682 TEMPORARY 24 INCH STOP BAR, PAINT  
STA. 51+70, RT (SCHOOL ST.)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT  
STA. 51+79, RT - "STOP"

646.702 TEMPORARY CROSSWALK MARKING, PAINT  
STA. 48+87, LT & RT  
STA. 51+35, LT & RT  
STA. 51+44 TO 51+96, RT

675.50 REMOVING SIGNS  
AS SHOWN - 7



NOTES:  
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
2. FOR LEGENDS, SEE LAYOUT SHEET #1.



NOT TO SCALE

**PROJECT LAYOUT SHEET #9**

PROJECT NAME: NORTH TROY	PLOT DATE: 25-OCT-2011 14:04
PROJECT NUMBER: STP 2620(1)	DRAWN BY: STANTEC
FILE NAME: p06b208.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 93 OF 116
DESIGNED BY: MCF	
IPARM FILE: p06b208109.i	

604.412, 604.415 OR 604.418 REHAB.  
DIS, CBS OR MHS, CLASS I, II OR III  
STA. 57+22, RT  
STA. 58+58, RT  
STA. 60+29, RT

604.42 CHANGING ELEVATION OF SEWER MANHOLES  
STA. 55+15, LT  
STA. 57+15, LT  
STA. 58+39, LT

618.10 PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH  
STA. 58+57, RT

618.30 DETECTABLE WARNING SURFACE  
STA. 58+57, RT

629.20 ADJUST ELEVATION OF VALVE BOX  
STA. 58+50, RT

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
(ALL LINES WILL INCLUDE EDGE LINE AND LANE LINE  
BREAKS AND RADII FOR SIDE ROADS)  
STA. 54+50 TO 60+50, SOLID LT & RT  
STA. 58+29, DOUBLE SOLID RT (MAIN ST.)

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
(ALL LINES WILL INCLUDE C BREAKS FOR SIDE ROADS)  
STA. 54+50 TO 60+50, SOLID LT & RT  
STA. 58+29, DOUBLE SOLID RT (MAIN ST.)

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC  
STA. 58+31, RT (MAIN ST.)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC  
STA. 58+41, RT - "STOP"

646.502 DURABLE CROSSWALK MARKING, THERMOPLASTIC  
STA. 57+88 TO 58+62, RT  
STA. 58+57, LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
(ALL LINES WILL INCLUDE EDGE LINE AND LANE LINE  
BREAKS AND RADII FOR SIDE ROADS)  
STA. 54+50 TO 60+50, SOLID LT & RT  
STA. 58+29, DOUBLE SOLID RT (MAIN ST.)

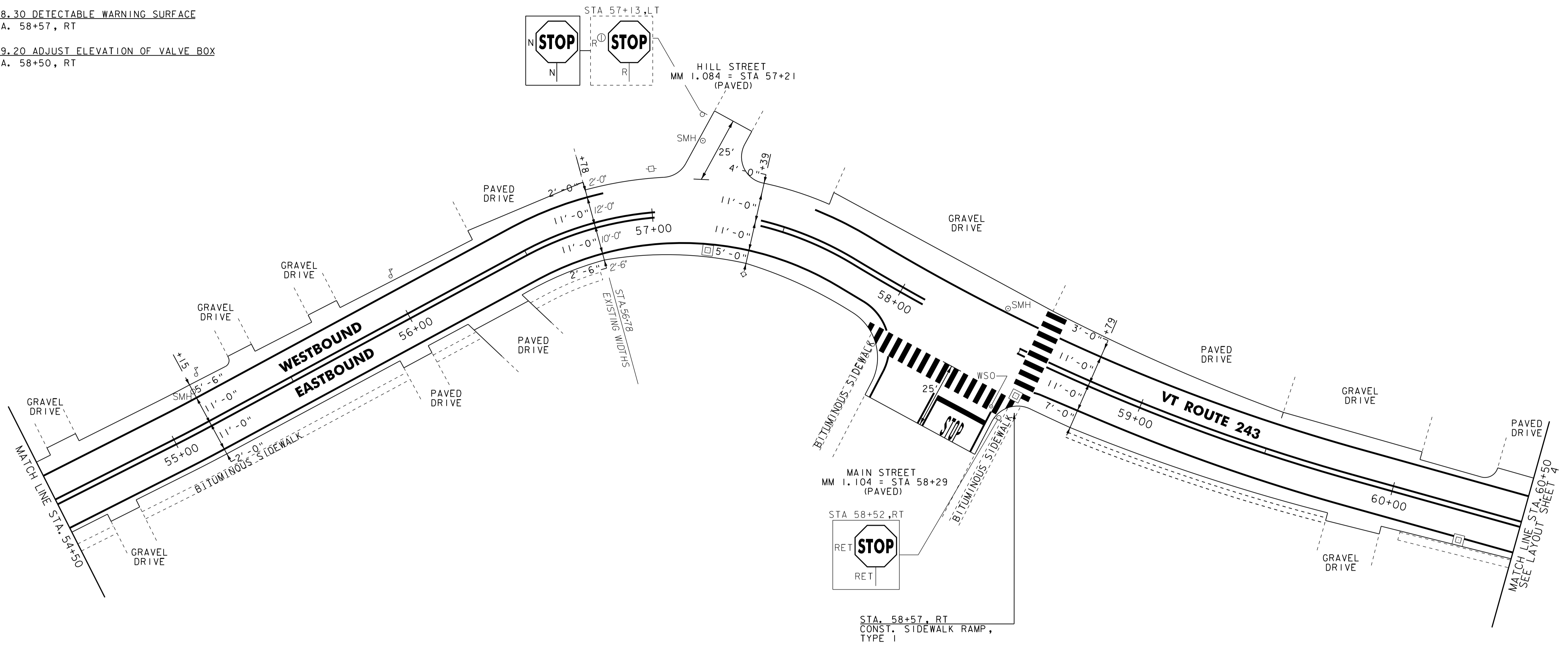
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
(ALL LINES WILL INCLUDE C BREAKS FOR SIDE ROADS)  
STA. 54+50 TO 60+50, SOLID LT & RT  
STA. 58+29, DOUBLE SOLID RT (MAIN ST.)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT  
STA. 58+31, RT (MAIN ST.)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT  
STA. 58+41, RT - "STOP"

646.702 TEMPORARY CROSSWALK MARKING, PAINT  
STA. 57+88 TO 58+62, RT  
STA. 58+57, LT & RT

675.50 REMOVING SIGNS  
AS SHOWN - 1



NOTES:  
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
2. FOR LEGENDS, SEE LAYOUT SHEET #1.



NOT TO SCALE

**PROJECT  
LAYOUT  
SHEET #10**

PROJECT NAME: NORTH TROY	PLOT DATE: 25-OCT-2011 14:04
PROJECT NUMBER: STP 2620(1)	DRAWN BY: STANTEC
FILE NAME: p06b208.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 94 OF 116
DESIGNED BY: MCF	
IPARM FILE: p06b208i10.i	



# TRAFFIC SIGN SUMMARY SHEET 2

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST. POST RETAIN	NO. OF POSTS	NEW SIGN POSTS																REMARKS	SIGN DETAIL						
		E A	WIDTH (in)	HEIGHT (in)	"A"	"B"	REMOVE SALV SIGN			SALV TIS	FLANGED CHANNEL			SQUARE STEEL (in)			TUBULAR ALUMINUM Ø (in)			TUBULAR STEEL Ø (in)				W-SHAPE STEEL			SIGN NUMBER	STD. SHEET NUMBER					
											lb/ft			1.75	2.0	2.5	3.0	4.0	4.0 MOD	3.0	3.5	4.0	5.0	FTG. SIZE					WEIGHT	POST SIZE			
											1.2	2.0	3.0	1.88	2.42	3.35	ANCHOR	FOUND-ATION	3.0	3.5	4.0	5.0	24"	30"									
VT ROUTE 105 CONT.																OPTION ITEMS																	
I37+12, LT		I	30	30	6.25		I		I				X		X											SIGN ID CODE RI-I	E-143						
		I	6	10	0.42		I						14.9													MOUNT MILE MARKER PLAQUE BACK TO BACK AND BELOW STOP SIGN	E-138						
I40+19, RT		I	30	30	6.25		I		I				13.5	X	X											SIGN ID CODE RI-I	E-143						
I42+58 LT																																	
I42+60 LT																																	
I42+23, LT		I	30	30	6.25		I		I				13.5	X	X											SIGN ID CODE RI-I	E-143						
I45+75, RT		I	30	30	6.25				I				15.0	X	X											SIGN ID CODE W11-2 (FLUORESCENT YELLOW-GREEN)	E-152						
		I	24	12	2.00																					SIGN ID CODE W16-7P (FLUORESCENT YELLOW-GREEN)	E-152						
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VAOT "SIGN POST DESIGN GUIDELINE."																																	
<b>TOTALS</b>				SF	SF	EA.	SF																										
				27.42		7																											



PROJECT NAME: NORTH TROY  
 PROJECT NUMBER: STP 2620(I)  
 FILE NAME: p06b208.dgn  
 PROJECT LEADER: JLL  
 DESIGNED BY: MCF  
 IPARM FILE: p06b208tss02.i  
 PLOT DATE: 25-OCT-2011 14:04  
 DRAWN BY: STANTEC  
 CHECKED BY: JLL  
 SHEET 96 OF 116

# TRAFFIC SIGN SUMMARY SHEET 3

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST. POST RETAIN	NO. OF POSTS	NEW SIGN POSTS																REMARKS	SIGN DETAIL						
		EA	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN			SALV TIS	FLANGED CHANNEL			SQUARE STEEL (in)			TUBULAR ALUMINUM Ø (in)			TUBULAR STEEL Ø (in)				W-SHAPE STEEL			SIGN NUMBER	STD. SHEET NUMBER					
											lb/ft	lb/ft	lb/ft	ANCHOR	S	FOUNDA-TION	3.0	4.0	4.0 MOD	3.0	3.5	4.0	5.0	FTG. SIZE	WEIGHT				POST SIZE				
																														1.12	2.0	3.0	1.88
VT ROUTE 105 CONT.																OPTION ITEMS																	
145+86, LT		I	30	30	6.25		2		I					15.0	X	X										SIGN ID CODE W11-2 (FLUORESCENT YELLOW-GREEN)	E-152						
		I	24	12	2.00																					SIGN ID CODE W16-7P (FLUORESCENT YELLOW-GREEN)	E-152						
147+56, LT		I	24	12	2.00		1																			MOUNT NEW SIGN ON EXISTING SIGN ASSEMBLY	E-136B						
148+69, RT		I	30	30	6.25		1		I				13.5	X	X											SIGN ID CODE RI-1	E-143						
151+85 RT			24	30	5.0		1																										
149+77, RT		I	30	30	6.25		1		I				13.5	X	X											SIGN ID CODE RI-1	E-143						
							1																										
157+77, RT		I	30	30	6.25		1		I				13.5	X	X											SIGN ID CODE RI-1	E-143						
154+90 LT			24	30	5.0		1																										
161+80, RT		I	30	30	6.25		1		I				15.0	X	X											SIGN ID CODE W11-2 (FLUORESCENT YELLOW-GREEN)	E-152						
		I	24	12	2.00																					SIGN ID CODE W16-7P (FLUORESCENT YELLOW-GREEN)	E-152						
161+84, LT		I	30	30	6.25		1		I				15.0	X	X											SIGN ID CODE W11-2 (FLUORESCENT YELLOW-GREEN)	E-152						
		I	24	12	2.00																					SIGN ID CODE W16-7P (FLUORESCENT YELLOW-GREEN)	E-152						
162+01, LT		I	30	30	6.25		1		I				13.5	X	X											SIGN ID CODE RI-1	E-143						
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VAOT "SIGN POST DESIGN GUIDELINE."												FT	FT	FT	FT	FT	FT	EA	LB	LB	LB	LB	LB	EA	EA	LB							
<b>TOTALS</b>				SF	SF	EA	SF				FT			99.0	FT			EA		LB		EA	EA	LB									
				51.75		12								105																			
				61.75																													



PROJECT NAME: NORTH TROY  
 PROJECT NUMBER: STP 2620(I)  
 FILE NAME: p06b208.dgn  
 PROJECT LEADER: JLL  
 DESIGNED BY: MCF  
 IPARM FILE: p06b208tss03.i  
 PLOT DATE: 25-OCT-2011 14:04  
 DRAWN BY: STANTEC  
 CHECKED BY: JLL  
 SHEET 97 OF 116

# TRAFFIC SIGN SUMMARY SHEET 4

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST. POST RETAIN	NO. OF POSTS	NEW SIGN POSTS																REMARKS	SIGN DETAIL		
		E A	WIDTH (in)	HEIGHT (in)	"A"	"B"	REMOVE SALV SIGN			SALV TIS	FLANGED CHANNEL			SQUARE STEEL (in)			TUBULAR ALUMINUM Ø (in)			TUBULAR STEEL Ø (in)				W-SHAPE STEEL			SIGN NUMBER	STD. SHEET NUMBER	
											lb/ft			1.75	2.0	2.5	3.0	4.0	4.0 MOD	3.0	3.5	4.0	5.0	FTG. SIZE	WEIGHT				POST SIZE
											1.12	2.0	3.0	1.88	2.42	3.35	1.3	1.7	1.7	7.6	9.0	10.8	14.6	24"	30"				
VT ROUTE 243										OPTION ITEMS																			
46+01, LT		I	30	30	6.25		I																			SIGN ID CODE RI-1	E-143		
46+55, LT		I	30	30	6.25		I																			MOUNT SIGNS BACK TO BACK SIGN ID CODE W11-2 (FLUORESCENT YELLOW-GREEN) SIGN ID CODE W11-2 (FLUORESCENT YELLOW-GREEN) SIGN ID CODE W16-7P (FLUORESCENT YELLOW-GREEN) SIGN ID CODE W16-7P (FLUORESCENT YELLOW-GREEN)	E-152 E-152 E-152 E-152		
46+91, RT		I	30	30	6.25		I																			SIGN ID CODE RI-1 - INSTALL NEW SIGN ON EXISTING POST	E-143		
49+90 RT																													
48+83, RT		I	30	30	6.25		I																			MOUNT SIGNS BACK TO BACK SIGN ID CODE W11-2 (FLUORESCENT YELLOW-GREEN) SIGN ID CODE W11-2 (FLUORESCENT YELLOW-GREEN) SIGN ID CODE W16-7P (FLUORESCENT YELLOW-GREEN) SIGN ID CODE W16-7P (FLUORESCENT YELLOW-GREEN)	E-152 E-152 E-152 E-152		
50+26, RT		I	24	12	2.00																					MOUNT NEW SIGN ON EXISTING SIGN ASSEMBLY	E-136B		
51+30, RT		I	30	30	6.25		I																			SIGN ID CODE W11-2 (FLUORESCENT YELLOW-GREEN) SIGN ID CODE W16-7P (FLUORESCENT YELLOW-GREEN)	E-152 E-152		
51+51 RT																													
51+39, LT		I	30	30	6.25		I																			SIGN ID CODE W11-2 (FLUORESCENT YELLOW-GREEN) SIGN ID CODE W16-7P (FLUORESCENT YELLOW-GREEN)	E-152 E-152		
51+43 RT																													
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VAOT "SIGN POST DESIGN GUIDELINE."																													
<b>TOTALS</b>		SF	SF	EA.	SF																								
		64.0																											

PROJECT NAME: NORTH TROY  
PROJECT NUMBER: STP 2620(I)

FILE NAME: p06b208.dgn  
PROJECT LEADER: JLL  
DESIGNED BY: MCF  
IPARM FILE: p06b208tss04.i

PLOT DATE: 25-OCT-2011 14:04  
DRAWN BY: STANTEC  
CHECKED BY: JLL  
SHEET 98 OF 116

# TRAFFIC SIGN SUMMARY SHEET 5

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST POST RETAIN	NO. OF POSTS	NEW SIGN POSTS														REMARKS	SIGN DETAIL									
		EA	WIDTH (in)	HEIGHT (in)	"A"	"B"	REMOVE SALV SIGN			SALV TIS	FLANGED CHANNEL			SQUARE STEEL (in)			TUBULAR ALUMINUM Ø (in)			TUBULAR STEEL Ø (in)					W-SHAPE STEEL			SIGN MATERIAL	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER				
											1.2	2.0	3.0	1.75	2.0	2.5	ANCHOR	S	E	3.0	4.0	4.0 MOD	FOUNDATION		3.0	3.5	4.0				5.0	FTG. SIZE	WEIGHT	POST SIZE
														lb/ft	lb/ft	lb/ft																		
5I+97, RT		1	30	30	6.25		I		I				13.5	X													SIGN ID CODE RI-I	E-143						
53+94 LT							I																											
57+13, LT		1	30	30	6.25		I		I				13.5	X													SIGN ID CODE RI-I	E-143						
62+11, RT		1	30	30	6.25		I		I				14.5	X													SIGN ID CODE RI-I	E-143						
SHEET 95 SUBTOTALS						54.42							116.6																					
SHEET 96 SUBTOTALS						27.42							105.9																					
SHEET 97 SUBTOTALS						61.75							99.0																					
SHEET 98 SUBTOTALS						64.00							87.75																					
SHEET 99 SUBTOTALS						18.75							41.5																					
PROJECT SUBTOTALS						211.34							401																					
ROUNDING						-1.66							-5																					



# STATE OF VERMONT AGENCY OF TRANSPORTATION

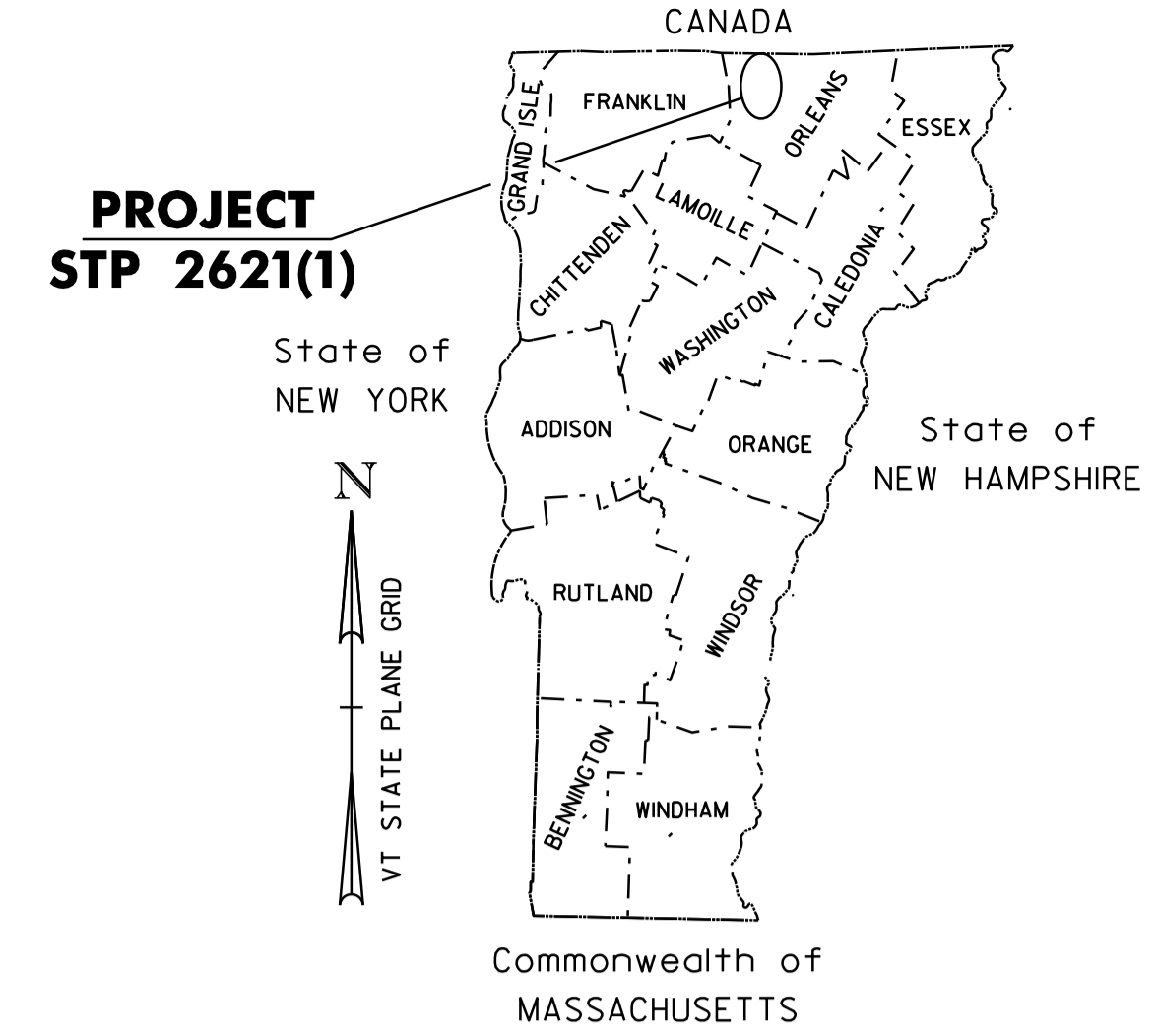


## PROPOSED IMPROVEMENT TOWN OF TROY COUNTY OF ORLEANS VT ROUTE 243

BEGINNING IN THE TOWN OF TROY ON VT ROUTE 243 AT STA. 6+12.48 (MM 0.116) AND EXTENDING EASTERLY ALONG VT ROUTE 243 FOR A DISTANCE OF 3,965.20 FEET (0.751 MILE) TO STA. 45+77.76 (MM 0.867) AT THE INTERSECTION OF DOMINION AVE.

PROJECT DATA:	LENGTH (FEET)	LENGTH (MILES)
TOWN OF TROY VT ROUTE 243 STA. 6+12.48 TO 45+77.76 MM 0.116 TO 0.867	3,965.28	0.751
TOTAL LENGTH OF PROJECT:	3,965.28 FEET =	0.751 MILE
TOTAL LENGTH OF ROADWAY:	3,965.28 FEET =	0.751 MILE

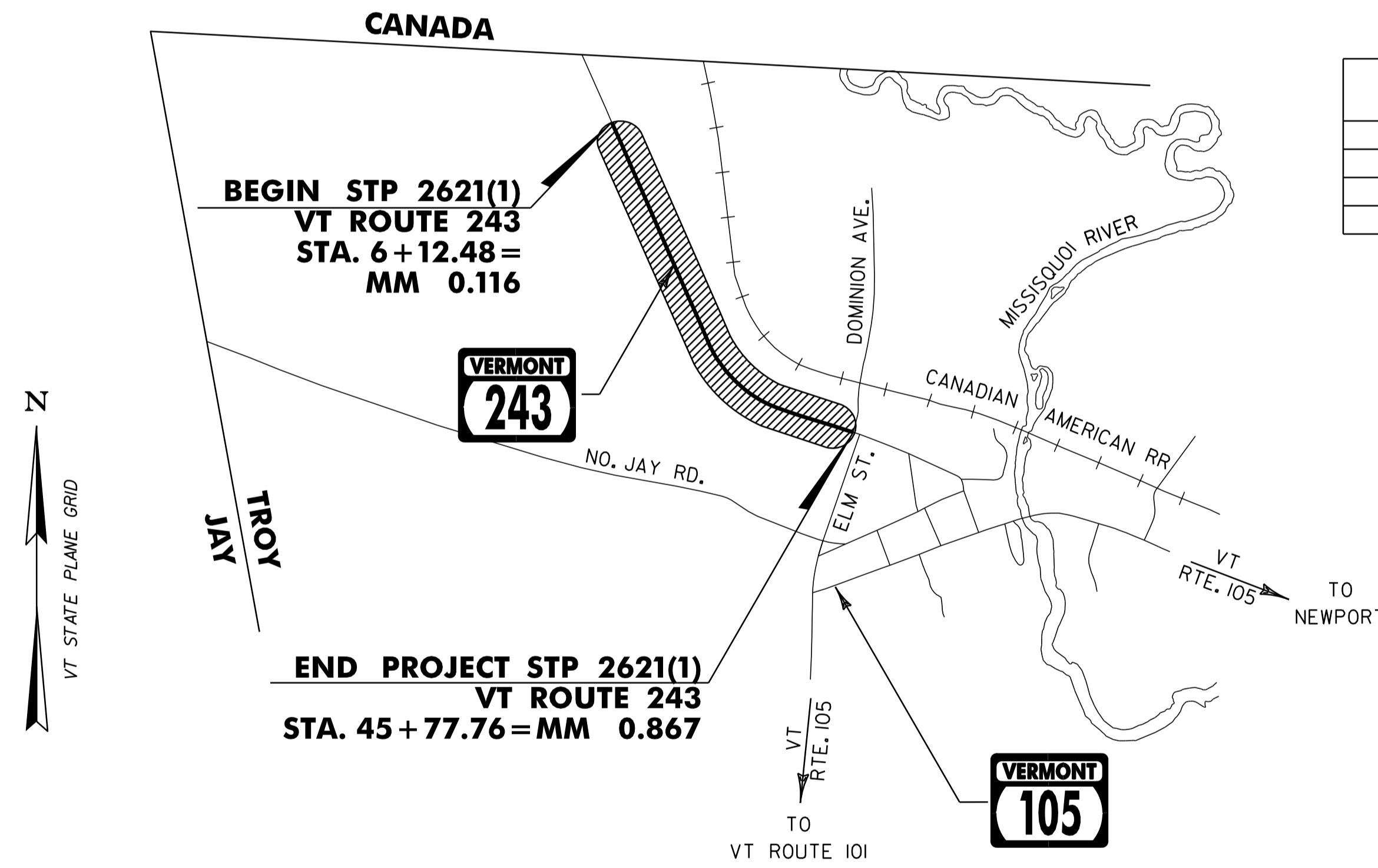
WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING AND RESURFACING OF THE EXISTING HIGHWAY, NEW PAVEMENT MARKINGS, GUARD RAIL, SIGNS AND OTHER INCIDENTAL ITEMS



SUPERPAVE BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESALS	340,500
DESIGN NUMBER OF GYRATIONS	65
PERFORMANCE GRADE ASPHALT BINDER	SEE SECTION 490 GENERAL SPECIAL PROVISIONS

### TRAFFIC DATA VT ROUTE 243

LOCATION	AADT		DHV		ESALS	
	2009	2019	2009	2019	2009-2019	2009-2029
BEGIN PROJECT TO END PROJECT	490	540	80	100	306,000	681,000



### CONVENTIONAL SYMBOLS

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

SURVEYED BY : N/A
SURVEYED DATE : N/A
DATUM
VERTICAL N/A
HORIZONTAL N/A

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 PURPOSES.

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.

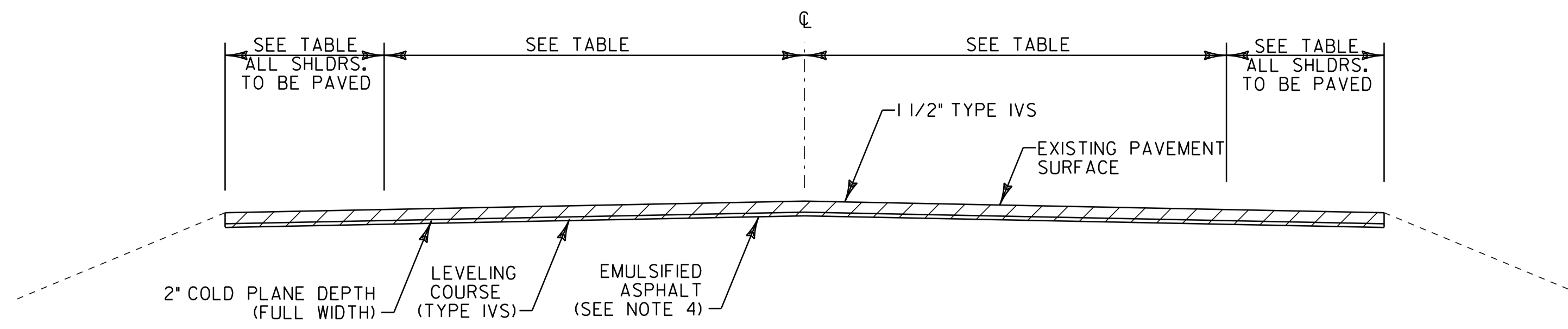
UNLESS OTHERWISE NOTED, ALL DRAWINGS AND DETAILS ON THESE PLANS ARE DRAWN "NOT TO SCALE".



**Stantec**

p06c210.dgn  
p06c210ts.1

PROJECT NAME : TROY
PROJECT NUMBER : STP 2621(1)
SHEET 101 OF 116 SHEETS



**COLD PLANE TYPICAL SECTION**

VT ROUTE 243 TROY STA. 6+12.48 TO 45+77.76

**PROJECT PAVING LIMITS**

TOWN & ROUTE	BEGIN STATION	END STATION	LANE TYPICAL	WEARING DEPTH	LEVELING	NOTES
					TONS	
TROY VT ROUTE 243	6+12.48	7+33	3'-6" - 11'-0" - 17'-6" - 0	1 1/2"	12	COLD PLANE 2", LEVEL AND PAVE WITH 1 1/2" TYPE IVS
TROY VT ROUTE 243	7+33	8+02	VARIABLES - SEE LAYOUT SHEETS	1 1/2"	7	COLD PLANE 2", LEVEL AND PAVE WITH 1 1/2" TYPE IVS
TROY VT ROUTE 243	8+02	40+00	3'-6" - 11'-0" - 11'-0" - 3'-6"	1 1/2"	288	COLD PLANE 2", LEVEL AND PAVE WITH 1 1/2" TYPE IVS
TROY VT ROUTE 243	40+00	45+77.76	VARIABLES - SEE LAYOUT SHEETS	1 1/2"	53	COLD PLANE 2", LEVEL AND PAVE WITH 1 1/2" TYPE IVS

**RURAL AREAS - SEED MIXTURE**

% 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	60			

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

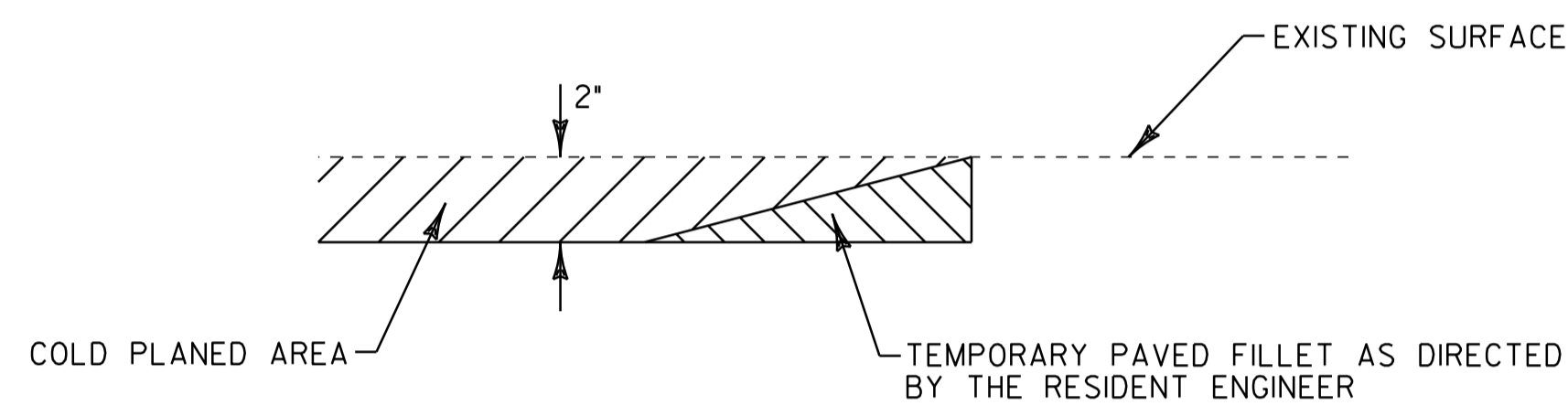
SEED:  
TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.

FERTILIZER:  
FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS/ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA.)

AGRICULTURAL LIMESTONE:  
TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE RESIDENT ENGINEER.

TEMPORARY EROSION MATTING (ITEM 653.20):  
TO BE PLACED ON EARTH SLOPES AS DIRECTED BY THE RESIDENT ENGINEER.

TOPSOIL:  
TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER.



**DETAIL AT VERTICAL COLD PLANE JOINTS**

NOTE: THIS DETAIL SHALL BE USED AT THE LOCATIONS LISTED BELOW AND AT ALL DRIVES AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 210.10.

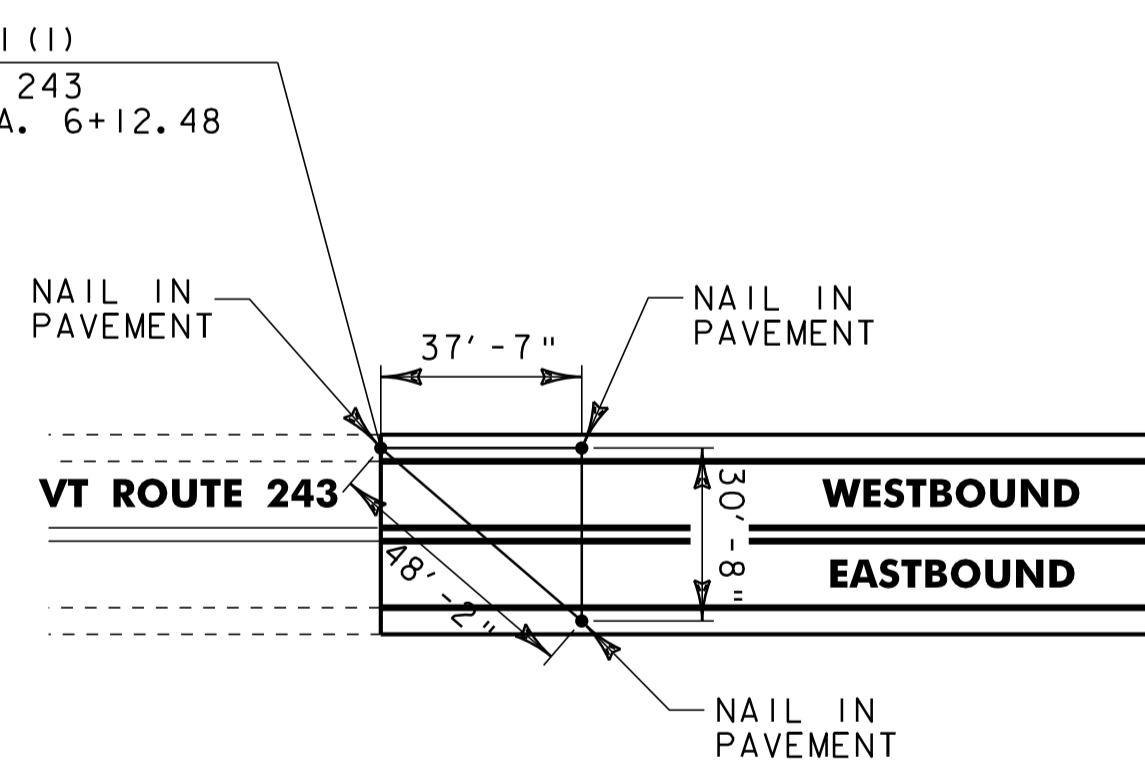
**FULL ROADWAY WIDTH**

STA. 6+12.48 (BEGIN PROJECT)  
STA. 45+77.76 (END PROJECT)

**NOTES**

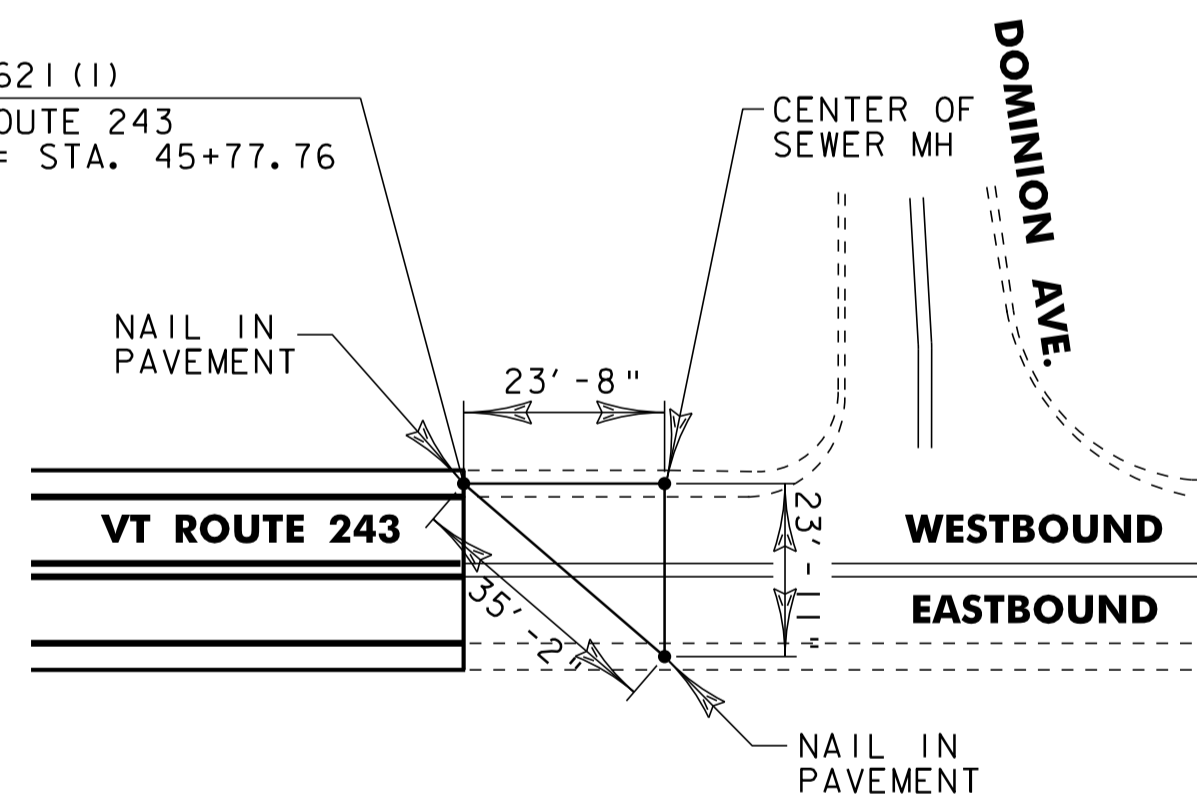
- THE PAVEMENT WEARING COURSE SHALL BE SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TYPE IVS. THE ESTIMATED 1/2" LEVELING COURSE SHALL BE SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TYPE IVS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- GRASS GROWING ADJACENT TO PAVEMENT OR THROUGH CRACKS IN THE PAVEMENT WHICH MAY 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 INCIDENTAL TO ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
- SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = ±1/4". (TOTAL THICKNESS EXCLUDING LEVELING)
- EMULSIFIED ASPHALT SHALL BE APPLIED ON EXISTING PAVEMENT SURFACES, BETWEEN ALL COURSES OF PAVEMENT AND ON COLD PLANED SURFACES, AT THE RATE OF 0.025 GAL/SY OR AS DIRECTED BY THE ENGINEER.
- COLD PLANING TO BE COMPLETED ACCORDING TO TYPICAL OR AS NOTED OTHERWISE ON THE PLANS. THE COLD PLANING AND PAVING SHALL MATCH THE EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AREAS BY THE USE OF A VERTICAL COLD PLANE JOINT. SEE DETAIL ON THIS SHEET.
- ALL EDGES OF PAVEMENT WITHIN THE COLD PLANE SECTION SHALL BE BACKED UP TO FULL HEIGHT WITH COLD PLANE GRINDINGS AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER ITEM 402.13 AGGREGATE SHOULDERS, RAP.
- ESTIMATED QUANTITIES OF ITEMS 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE 1, ITEM 608.37 TRUCK RENTAL AND ITEM 608.40 LOADER RENTAL, TYPE 1 HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL END SECTION FLARES WITH EXCAVATED DITCHING MATERIAL. AN ESTIMATED QUANTITY OF 203.30 EARTH BORROW HAS BEEN INCLUDED IN THE CASE THAT THE DITCHING MATERIAL IS NOT SUITABLE TO USE IN THE GUARDRAIL END SECTION FLARE AREA. 25 CUBIC YARDS OF EARTH BORROW HAVE BEEN ESTIMATED FOR EACH NEW GUARDRAIL END SECTION FLARE. ITEM 653.20 TEMPORARY EROSION MATTING SHALL BE PLACED ON ALL SLOPES CREATED BY THE GUARDRAIL END SECTION FLARE. THE QUANTITIES INCLUDED REFLECT 25 SY OF ITEM 653.20 TEMPORARY EROSION MATTING FOR EACH NEW GUARDRAIL END SECTION FLARE.
- THE PROPOSED GUARDRAIL SHALL BE INSTALLED IN A LOCATION THAT MAXIMIZES THE DISTANCE FROM THE CENTER OF THE ROAD TO THE FACE OF GUARDRAIL AS DIRECTED BY THE RESIDENT ENGINEER.
- ALL DRIVES SHALL RECEIVE A 4 FOOT PAVED APRON AS DIRECTED BY THE RESIDENT ENGINEER. SEE SHEET 106 FOR DETAILS AND PAYMENT PROVISIONS.
- AN ESTIMATED QUANTITY OF ITEM 619.17 YIELDING MARKER POSTS HAS BEEN INCLUDED TO DELINEATE PIPE INLETS, PIPE OUTLETS AND DROP INLETS LOCATED OUTSIDE OF THE PAVEMENT SURFACE OR AS DIRECTED BY THE RESIDENT ENGINEER.
- STEEL BEAM GUARDRAIL WITH STEEL POSTS SHALL BE USED ON THIS PROJECT.
- A QUANTITY FOR ITEM 604.412 REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS 1, AND ITEM 604.40 CHANGING ELEVATION OF DI, CB, OR MH HAS BEEN INCLUDED TO BE USED AS INDICATED ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER. ALL DI'S SHALL BE RAISED OR REHABILITATED SUCH THAT THE NEW GRATE ELEVATION IS EVEN WITH THE SURROUNDING TERRAIN.

BEGIN STP 2621 (1)  
TROY VT ROUTE 243  
MM 0.116 = STA. 6+12.48



**VT 243 BEGIN PROJECT LOCATION TIES**

END STP 2621 (1)  
TROY VT ROUTE 243  
MM 0.867 = STA. 45+77.76



**VT 243 END PROJECT LOCATION TIES**

**REHAB. DI'S, CB'S or MH'S, CLASS I**  
(ITEM 604.412)

**VT ROUTE 243**

STATION	POSITION	DESCRIPTION
7+74		DI



**PROJECT TYPICAL SHEET**

PROJECT NAME: TROY	
PROJECT NUMBER: STP 2621(1)	
FILE NAME: p06c210.dgn	PLOT DATE: 25-OCT-2011 14:04
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: MCF	CHECKED BY: JLL
IPARM FILE: p06c210pts.i	SHEET 102 OF 116

# QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES				TOTALS			DESCRIPTIONS		
ROADWAY	EROSION CONTROL	FULL C.E.	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NO.	ROUND	
25			25		CY	EARTH BORROW	203.30	-	
2450			2450		LF	SHOULDER BERM REMOVAL	203.40	30	
1			1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	EST.	
13000			13000		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	133	
150			150		TON	AGGREGATE SHOULDERS, RAP	402.13	5	
55			55		CWT	EMULSIFIED ASPHALT	404.65	1.6	
1			1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-	
						BEGIN OPTION AA			
1600			1600		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (0% RAP CONTENT)	490.30	170	
1600			1600		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (0% < RAP CONTENT < 15.0%)	490.30	170	
1600			1600		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (15.0% <= RAP CONTENT < 25.0%)	490.30	170	
1600			1600		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (25.0% <= RAP CONTENT <= 50.0%)	490.30	170	
						END OPTION AA			
1			1		LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-	
1			1		LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	490.32	-	
1			1		LU	SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.) (NON-LIMITED ACCESS HIGHWAY)	490.33	-	
1			1		LU	LONGITUDINAL JOINT COMPACTION PAY ADJUSTMENT (N.A.B.I.)	490.34	-	
1			1		EA	CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES	604.40	EST.	
1			1		EA	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	EST.	
20			20		HR	POWER GRADER RENTAL	608.15	EST.	
20			20		HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST.	
15			15		HR	POWER BROOM RENTAL, TYPE I	608.30	EST.	
20			20		HR	POWER BROOM RENTAL, TYPE II	608.31	EST.	
20			20		HR	TRUCK RENTAL	608.37	EST.	
20			20		HR	LOADER RENTAL, TYPE I	608.40	EST.	
	300		300		CY	STONE FILL, TYPE I	613.10	15	
4			4		EACH	YIELDING MARKER POSTS	619.17	-	
12.5			12.5		LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	-	
1			1		EACH	MANUFACTURED TERMINAL SECTION, FLARED	621.50	-	
80			80		EACH	REPLACE GUARDRAIL POST ASSEMBLY	621.76	EST.	
40			40		EACH	REPLACE GUARDRAIL BEAM UNIT	621.77	EST.	
50			50		LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	-	
460			460		HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.	
1380			1380		HR	FLAGGERS	630.15	EST.	
		0.25	0.25		LS	FIELD OFFICE, ENGINEERS	631.10	-	
		0.25	0.25		LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-	
		0.1	0.1		LU	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.25	-	

DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS
		COLD PLANING, BITUMINOUS PAVEMENT
12867	SY	MAINLINE
133	SY	ROUNDING
13000	SY	TOTAL
		SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
1072	TON	MAINLINE WEARING COURSE (TYPE IVS)
358	TON	LEVELING (TYPE IVS)
170	TON	ROUNDING
1600	TON	TOTAL
		TEMPORARY EROSION MATTING
704	SY	DITCH CLEANING
25	SY	M.T.S. FLARED CONSTRUCTION
2420	SY	SEED PROTECTION
51	SY	ROUNDING
3200	SY	TOTAL

PROJECT NAME: TROY  
 PROJECT NUMBER: STP 2621(1)  
 FILE NAME: p06c210.dgn PLOT DATE: 25-OCT-2011 14:04  
 PROJECT LEADER: JLL DRAWN BY: STANTEC  
 DESIGNED BY: MCF CHECKED BY: JLL  
**IPARM FILE: p06c210qs01.i** SHEET 103 OF 116

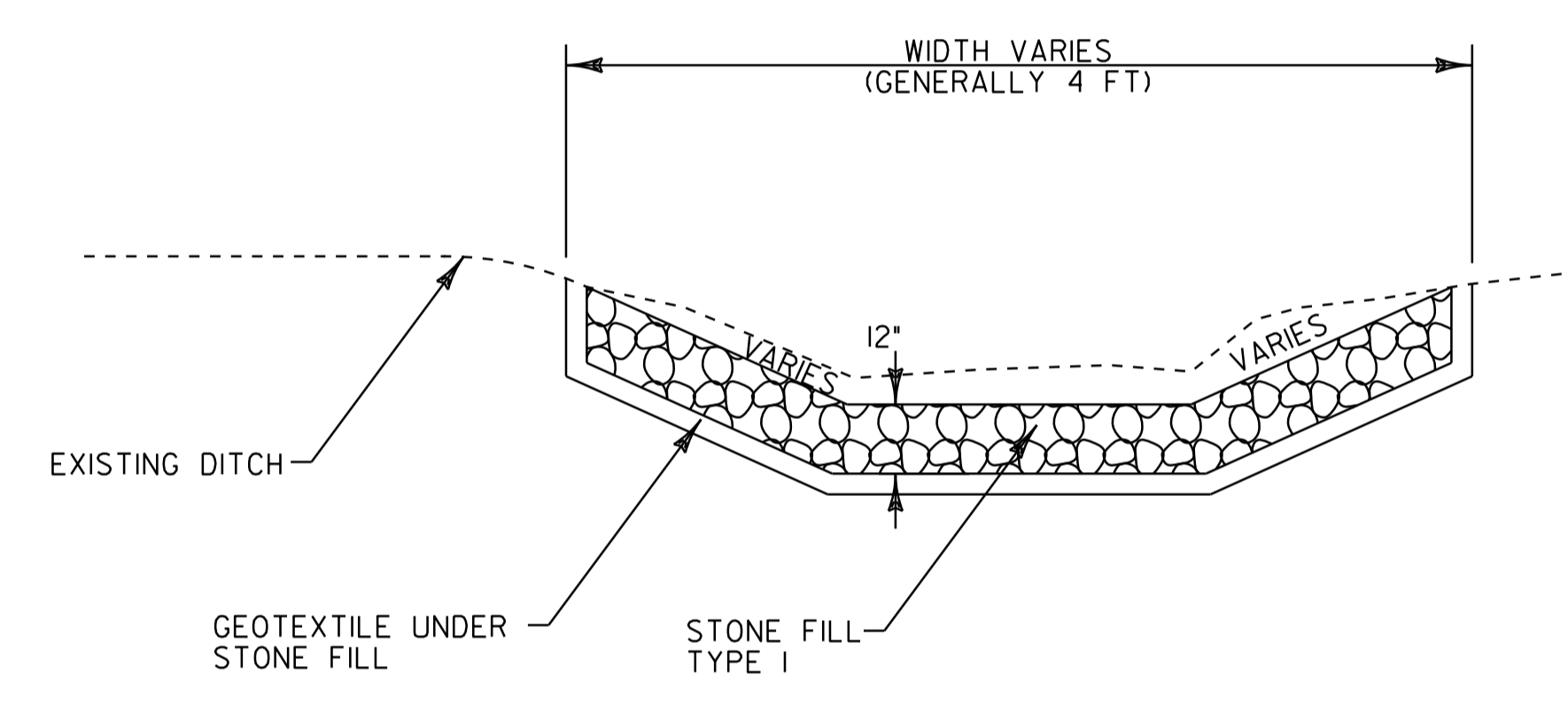






LOCATION				FEET OF DITCHING			MISC. ITEMS			REMARKS
SITE	STATION	STATION	POS.	PERCENT GRADE			613.10	649.31	653.20	
				0-1	1-2.5	2.5-10	STONE FILL TYP. 1	GEOT. UNDER STONE FILL	TEMP. EROS. MATT.	
							CY	SY	SY	
VT ROUTE 243 TROY							CY	SY	SY	
1	6+12	10+56	RT	444						
2	10+56	23+76	RT		1320				587	
3	23+76	45+67	RT		264	1927	285	1285	117	
<b>PROJECT SUBTOTALS (EST.)</b>				444	1584	1927	285	1285	704	
ROUNDING				-	-	-	15	15	-	
<b>PROJECT TOTALS</b>				444	1584	1927	300	1300	704	

LOCATION				FEET OF DITCHING			MISC. ITEMS			REMARKS
SITE	STATION	STATION	POS.	PERCENT GRADE			613.10	649.31	653.20	
				0-1	1-2.5	2.5-10	STONE FILL TYP. 1	GEOT. UNDER STONE FILL	TEMP. EROS. MATT.	
							CY	SY	SY	
							CY	SY	SY	



**DITCH DETAIL**

NOTES:

1. PIPE INLET AND OUTLET AREAS, AND DITCH CLEANING THROUGH PROJECT, SHALL BE PERFORMED AT LOCATIONS INDICATED ON THIS SHEET AND AS DIRECTED BY THE VAOT RESIDENT ENGINEER. PAYMENT WILL BE UNDER THE APPLICABLE EQUIPMENT RENTAL ITEM(S).
2. ESTIMATED QUANTITIES OF TEMPORARY EROSION MATTING, SEED, AND STONE FILL TYPE 1 HAVE BEEN INCLUDED. DITCHES WITH A GRADE LESS THAN 1 PERCENT SHALL BE SEEDED. TEMPORARY EROSION MATTING SHALL BE USED IN ALL DITCHES WITH A GRADE BETWEEN 1 AND 2.5 PERCENT. STONE FILL, TYPE 1 SHALL BE USED IN ALL DITCHES WITH A GRADE BETWEEN 2.5 AND 10 PERCENT OR AS DIRECTED BY THE VAOT RESIDENT ENGINEER.



**DITCH CLEANING  
DETAIL SHEET**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 14:04
PROJECT NUMBER: STP 2621(1)	DRAWN BY: STANTEC
FILE NAME: p06c210.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 107 OF 116
DESIGNED BY: MCF	
<b>IPARM FILE: p06c210dcs.i</b>	

604.412 REHAB. DIS, CBs OR MHS, CLASS 1  
STA. 7+74, RT

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
STA. 6+12 TO 9+00, SOLID LT  
STA. ~~7+33~~ TO 9+00, SOLID RT  
6+12

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
STA. 6+12 TO 9+00, SOLID LT & RT

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC  
STA. 6+30, LT - "AHEAD"  
STA. 6+70, LT - "STOP"

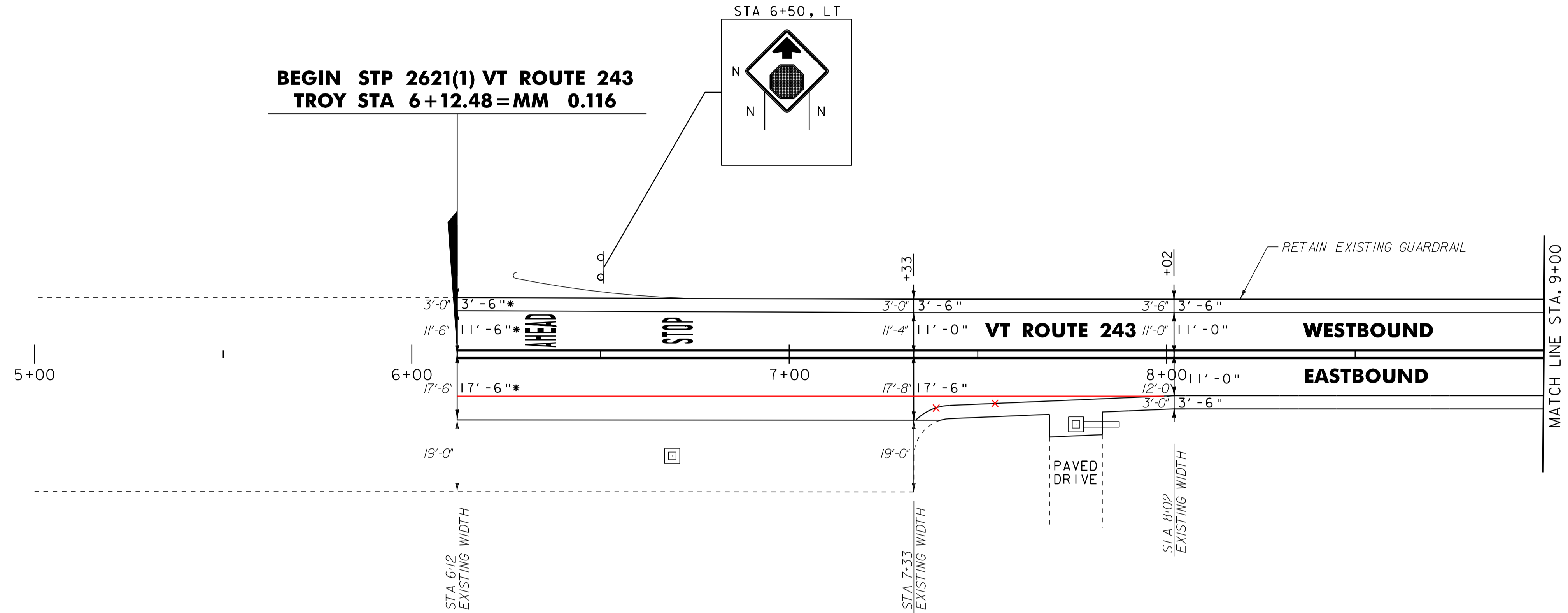
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
STA. 6+12 TO 9+00, SOLID LT  
STA. 7+33 TO 9+00, SOLID RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
STA. 6+12 TO 9+00, SOLID LT & RT

646.692 TEMPORARY LETTER OR SYMBOL, PAINT  
STA. 6+30, LT - "AHEAD"  
STA. 6+70, LT - "STOP"

621.80 REMOVAL & DISPOSAL OF GUARDRAIL  
STA. 6+27.5 TO 6+65 LT

621.50 MANUFACTURED TERMINAL SECTION, FLARED  
STA. 6+27.5 TO 6+65 LT



\* MATCH EXISTING PAVEMENT MARKINGS

**UTILITY LEGEND**

- ⊙ = EXISTING HYDRANT
- ⊠ = EXISTING DI
- = EXISTING MANHOLE
- ⊙TEL = EXISTING TELEPHONE MANHOLE
- ⊙ELEC = EXISTING ELECTRIC MANHOLE
- ⊙SMH = EXISTING SEWER MANHOLE
- WSO = EXISTING WATER SHUTOFF
- GSO = EXISTING GAS SHUTOFF
- ♣ = EXISTING MAILBOX
- R⊙ = REMOVE AND RETURN TO VILLAGE OF NORTH TROY

**SIGN LEGEND**

- N = NEW
- R = REMOVE
- R&S = REMOVE & SALVAGE
- S = SALVAGE SIGN
- RET = RETAIN
- B-B = BACK TO BACK
- R⊙ = RETURN TO TOWN OF TROY

NOTE:  
ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.



NOT TO SCALE

**PROJECT  
LAYOUT  
SHEET #1**

PROJECT NAME: TROY  
PROJECT NUMBER: STP 2621(1)

FILE NAME: p06c210.dgn  
PROJECT LEADER: JLL  
DESIGNED BY: MCF  
IPARM FILE: p06c210101.i

PLOT DATE: 25-OCT-2011 14:04  
DRAWN BY: STANTEC  
CHECKED BY: JLL  
SHEET 108 OF 116

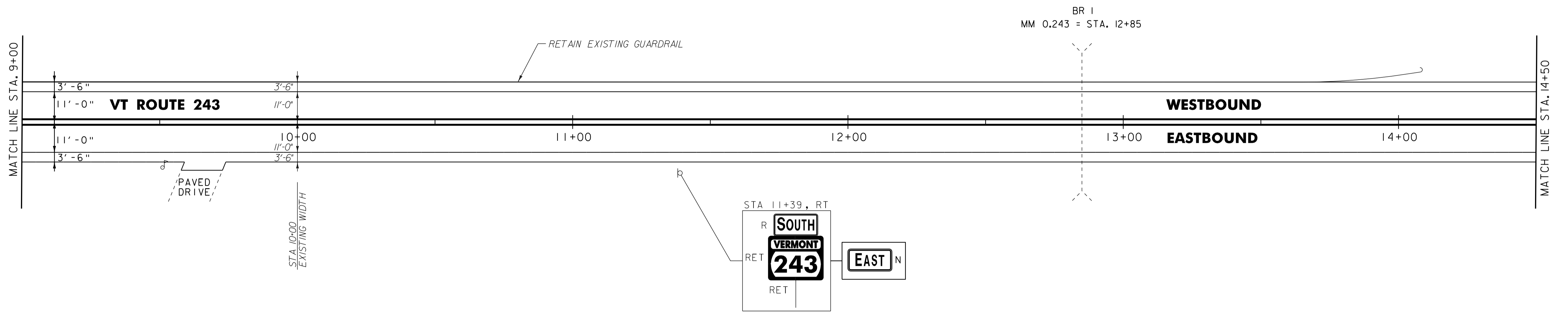
646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
STA. 9+00 TO 14+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
STA. 9+00 TO 14+50, SOLID LT & RT

675.50 REMOVING SIGNS  
AS SHOWN - 1

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
STA. 9+00 TO 14+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
STA. 9+00 TO 14+50, SOLID LT & RT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
  2. FOR LEGENDS, SEE LAYOUT SHEET #1.

NOT TO SCALE



**PROJECT  
LAYOUT  
SHEET #2**

PROJECT NAME: TROY  
PROJECT NUMBER: STP 2621(1)

FILE NAME: p06c210.dgn  
PROJECT LEADER: JLL  
DESIGNED BY: MCF  
IPARM FILE: p06c210102.i

PLOT DATE: 25-OCT-2011 14:04  
DRAWN BY: STANTEC  
CHECKED BY: JLL  
SHEET 109 OF 116

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 14+50 TO 20+00, SOLID LT & RT

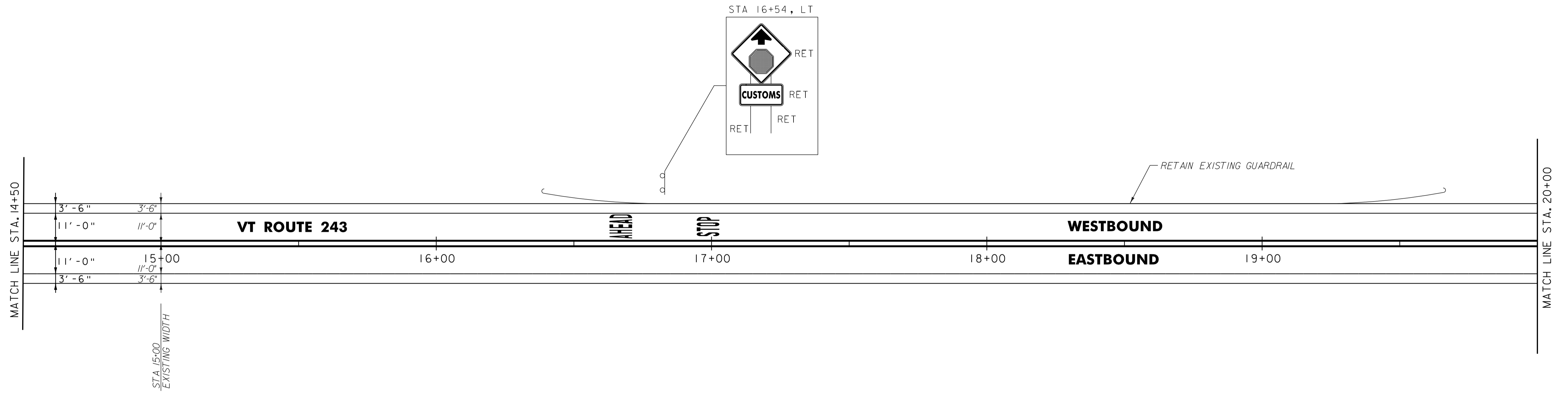
646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC  
 STA. 16+34, LT - "AHEAD"  
 STA. 16+74, LT - "STOP"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 14+50 TO 20+00, SOLID LT & RT

646.692 TEMPORARY LETTER OR SYMBOL, PAINT  
 STA. 16+34, LT - "AHEAD"  
 STA. 16+74, LT - "STOP"

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 14+50 TO 20+00, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 14+50 TO 20+00, SOLID LT & RT



- NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1.

NOT TO SCALE



**PROJECT  
 LAYOUT  
 SHEET #3**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 14:04
PROJECT NUMBER: STP 2621(1)	DRAWN BY: STANTEC
FILE NAME: p06c210.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 110 OF 116
DESIGNED BY: MCF	
<b>IPARM FILE: p06c210103.i</b>	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
STA. 20+00 TO 25+50, SOLID LT & RT

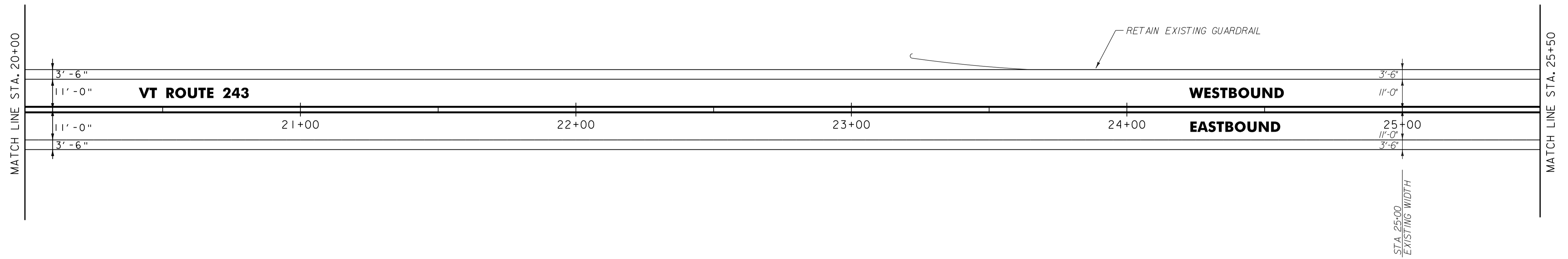
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
STA. 20+00 TO 25+50, SOLID LT & RT

621.80 REMOVAL & DISPOSAL OF GUARDRAIL  
STA 23+21.5 TO 23+59 LT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
STA. 20+00 TO 25+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
STA. 20+00 TO 25+50, SOLID LT & RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED  
STA 23+21.5 TO 23+59 LT



- NOTES:  
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
2. FOR LEGENDS, SEE LAYOUT SHEET #1.

NOT TO SCALE



**PROJECT  
LAYOUT  
SHEET #4**

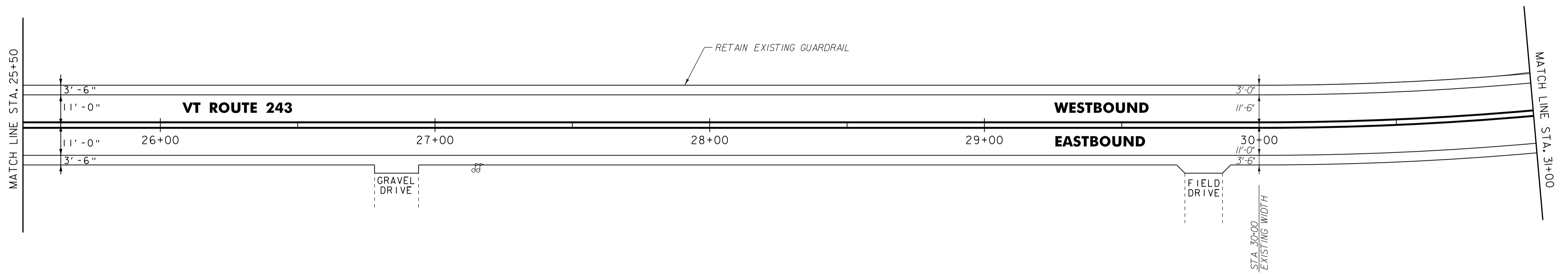
PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 14:04
PROJECT NUMBER: STP 2621(I)	DRAWN BY: STANTEC
FILE NAME: p06c210.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET III OF 116
DESIGNED BY: MCF	
<b>IPARM FILE: p06c210104.i</b>	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
STA. 25+50 TO 31+00, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
STA. 25+50 TO 31+00, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
STA. 25+50 TO 31+00, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
STA. 25+50 TO 31+00, SOLID LT & RT



- NOTES:  
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
2. FOR LEGENDS, SEE LAYOUT SHEET #1.

NOT TO SCALE



**PROJECT  
LAYOUT  
SHEET #5**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 14:04
PROJECT NUMBER: STP 2621(1)	DRAWN BY: STANTEC
FILE NAME: p06c210.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 112 OF 116
DESIGNED BY: MCF	
<b>IPARM FILE: p06c210105.i</b>	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
STA. 31+00 TO 36+50, SOLID LT & RT

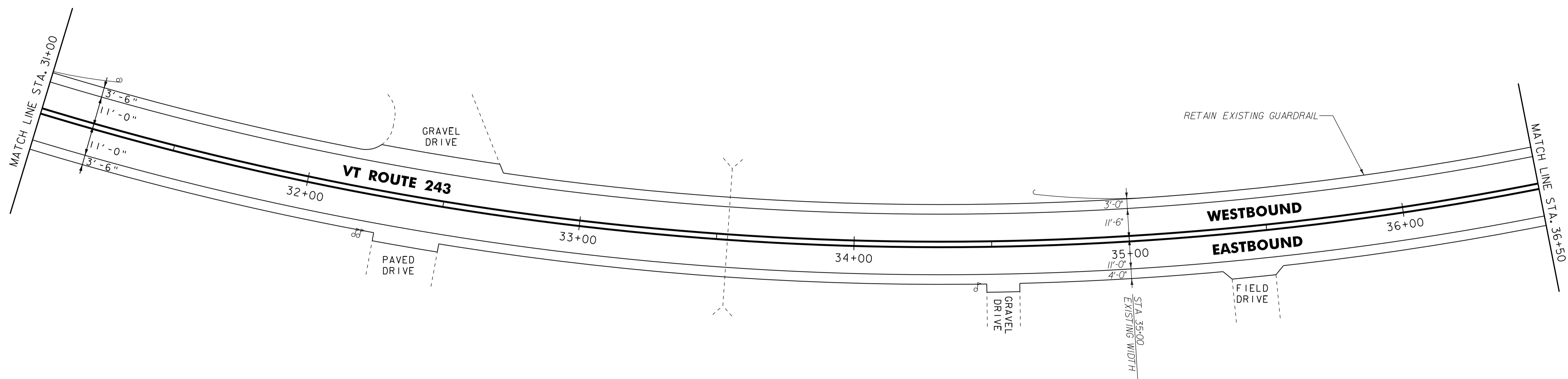
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
STA. 31+00 TO 36+50, SOLID LT & RT

621.80 REMOVAL & DISPOSAL OF GUARDRAIL  
STA 31+00 TO 31+37.5 LT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
STA. 31+00 TO 36+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
STA. 31+00 TO 36+50, SOLID LT & RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED  
STA 31+00 TO 31+37.5 LT



- NOTES:  
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
2. FOR LEGENDS, SEE LAYOUT SHEET #1.

NOT TO SCALE



**PROJECT  
LAYOUT  
SHEET #6**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 14:05
PROJECT NUMBER: STP 2621(1)	DRAWN BY: STANTEC
FILE NAME: p06c210.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 113 OF 116
DESIGNED BY: MCF	
IPARM FILE: p06c210106.i	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
STA. 36+50 TO 42+00, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
STA. 36+50 TO 42+00, SOLID LT & RT

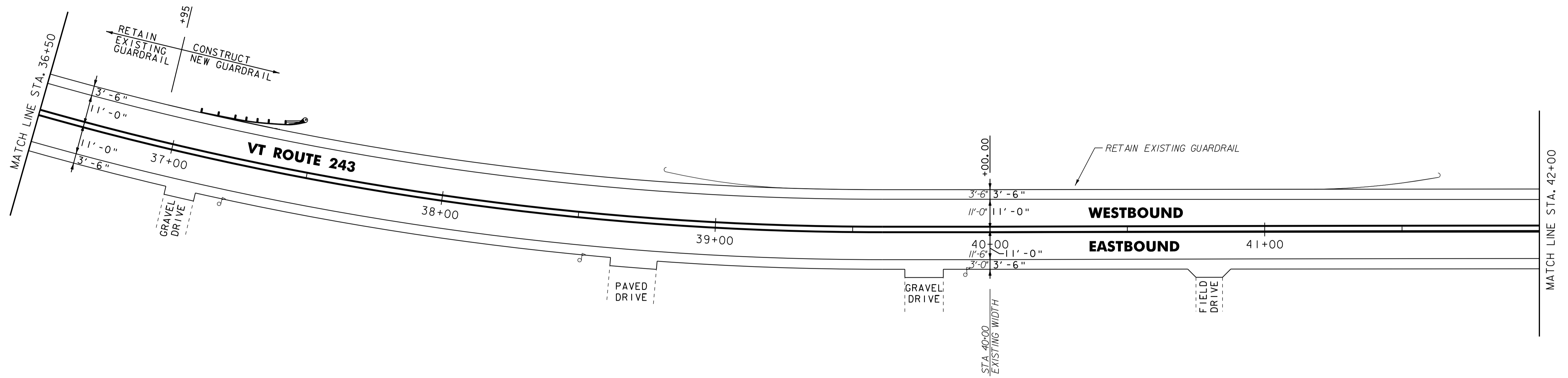
~~621.20 STEEL BEAM GUARDRAIL, GALVANIZED~~  
~~STA. 36+95 TO 37+07.5, LT~~

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL  
STA. ~~36+95~~ TO 37+45, LT  
37+07

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
STA. 36+50 TO 42+00, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
STA. 36+50 TO 42+00, SOLID LT & RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED  
STA. 37+07.5 TO 37+45, LT



- NOTES:  
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
2. FOR LEGENDS, SEE LAYOUT SHEET #1.

NOT TO SCALE



**PROJECT  
LAYOUT  
SHEET #7**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 14:05
PROJECT NUMBER: STP 2621(I)	DRAWN BY: STANTEC
FILE NAME: p06c210.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 114 OF 116
DESIGNED BY: MCF	
IPARM FILE: p06c210107.i	

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 STA. 42+00 TO 45+77.76, SOLID LT & RT

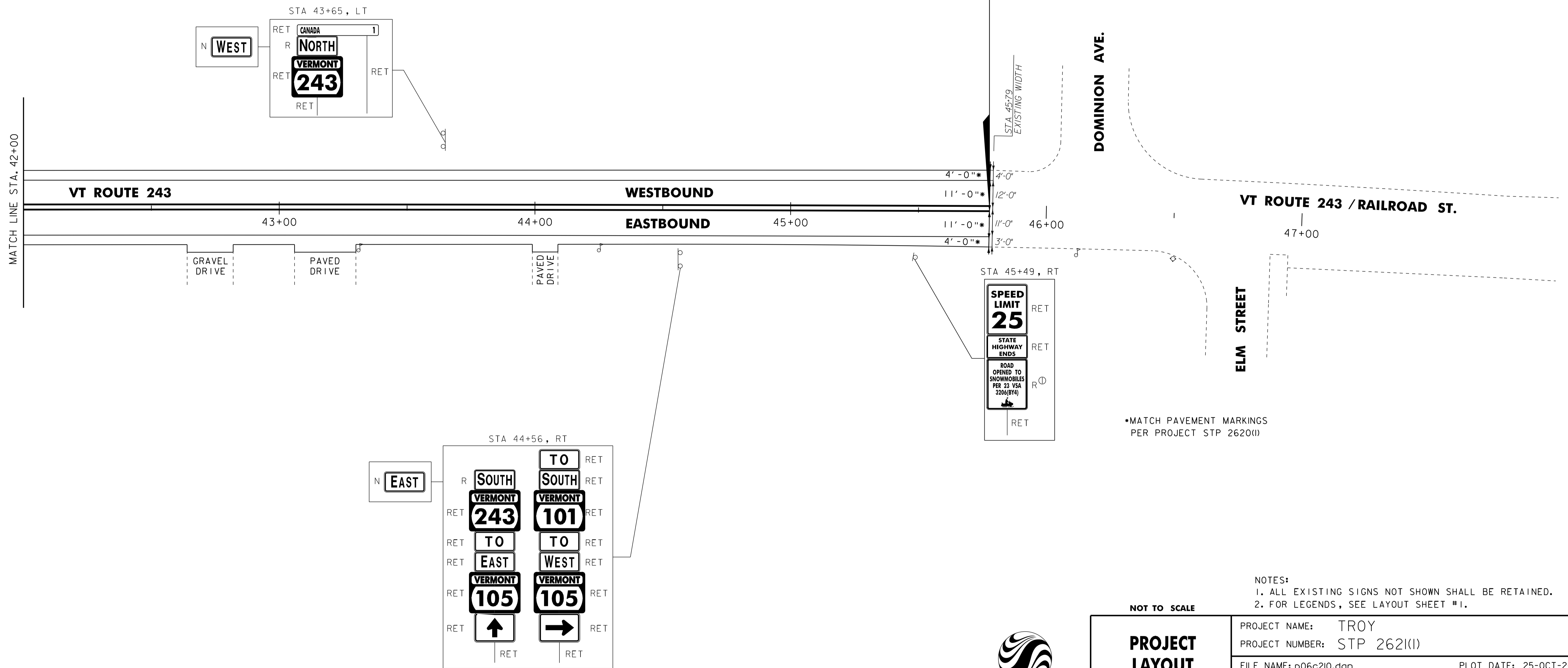
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 STA. 42+00 TO 45+77.76, SOLID LT & RT

675.50 REMOVING SIGNS  
 AS SHOWN - 3

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 STA. 42+00 TO 45+77.76, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 STA. 42+00 TO 45+77.76, SOLID LT & RT

END STP 2621(1) VT ROUTE 243  
 TROY STA 45+77.76=MM 0.867



NOTES:  
 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.  
 2. FOR LEGENDS, SEE LAYOUT SHEET #1.



**PROJECT LAYOUT SHEET #8**

PROJECT NAME: TROY	PLOT DATE: 25-OCT-2011 14:05
PROJECT NUMBER: STP 2621(1)	DRAWN BY: STANTEC
FILE NAME: p06c210.dgn	CHECKED BY: JLL
DESIGNED BY: MCF	SHEET 115 OF 116
IPARM FILE: p06c210108.i	

