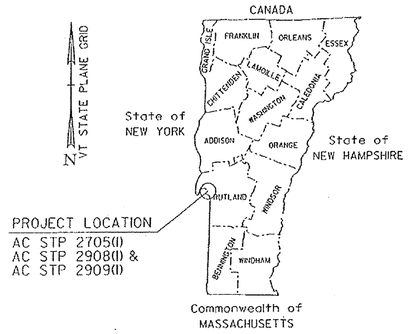
INDEX OF SHEETS
SEE SHEET 2

STATE OF VERMONT
AGENCY OF TRANSPORTATION

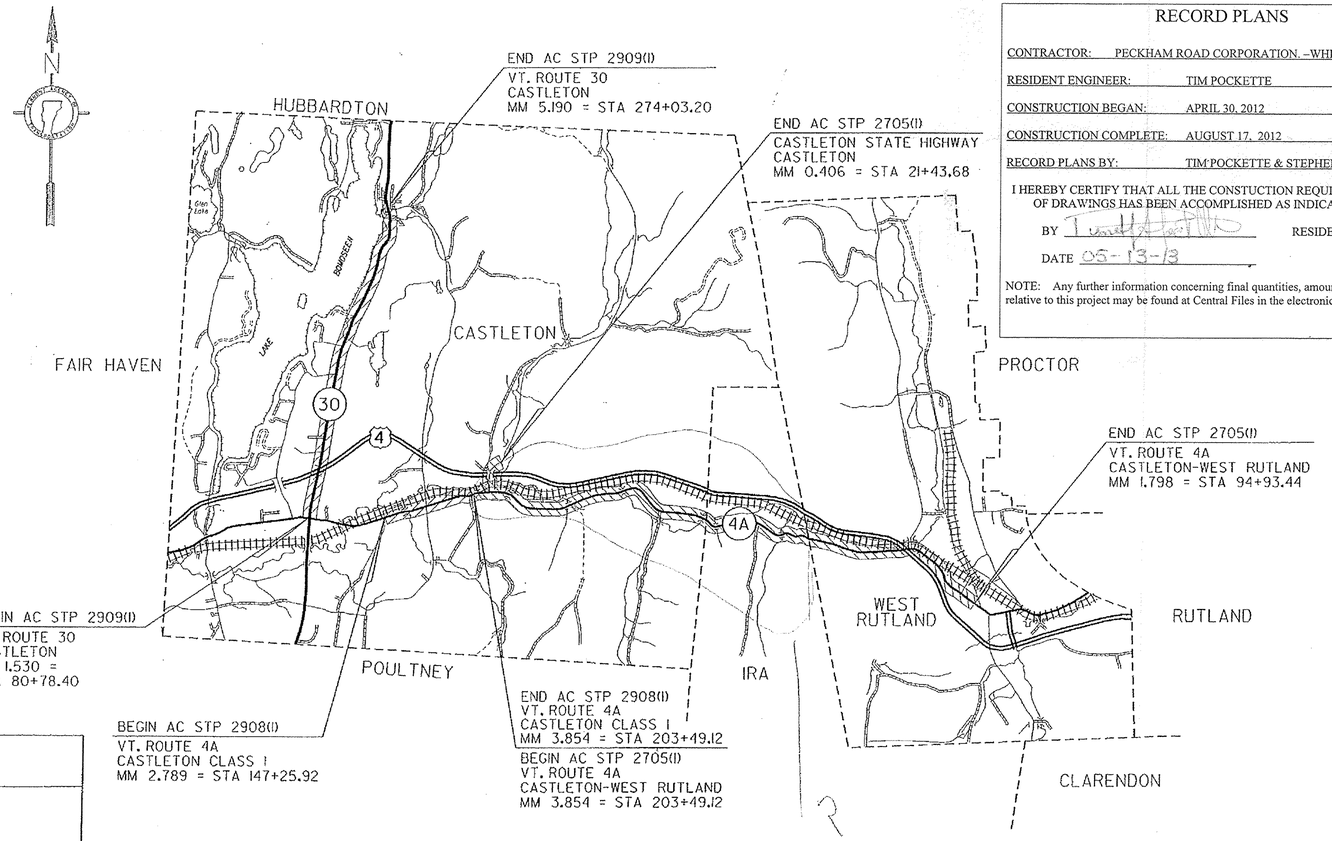


PROPOSED IMPROVEMENT
TOWNS OF CASTLETON, IRA, & WEST RUTLAND
COUNTY OF RUTLAND
VT. ROUTE 4A & VT. ROUTE 30

CASTLETON-WEST RUTLAND
AC STP 2705(I)
SEE SHEET 12
FOR ADDITIONAL PROJECT INFORMATION AND THE SUPERPAVE DESIGN CRITERIA

CASTLETON CLASS I
AC STP 2908(I)
SEE SHEET 90
FOR ADDITIONAL PROJECT INFORMATION AND THE SUPERPAVE DESIGN CRITERIA

CASTLETON
AC STP 2909(I)
SEE SHEET 120
FOR ADDITIONAL PROJECT INFORMATION AND THE SUPERPAVE DESIGN CRITERIA



RECORD PLANS

CONTRACTOR: PECKHAM ROAD CORPORATION. -WHITE PLAINS, NY

RESIDENT ENGINEER: TIM POCKETTE

CONSTRUCTION BEGAN: APRIL 30, 2012

CONSTRUCTION COMPLETE: AUGUST 17, 2012

RECORD PLANS BY: TIM POCKETTE & STEPHEN KENT

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

BY _____ RESIDENT ENGINEER

DATE 05-13-13

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.

STATE OF VERMONT
RODNEY A. BASSO
No. 6581
CIVIL
LICENSED
PROFESSIONAL ENGINEER

PLANS PREPARED BY
Rodney A Basso
CHA

QUALITY ASSURANCE PROGRAM: LEVEL 3

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 (SR SR SR)
TOP OF CUT
TOE OF SLOPE

SURVEYED BY : NA
SURVEYED DATE : NA

DATUM
VERTICAL NA
HORIZONTAL NA

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATOR
APPROVED Mark D. Richter 9-22-11

DIRECTOR OF PROGRAM DEVELOPMENT
APPROVED _____ DATE 9/19/11

PROJECT MANAGER : MIKE FOWLER

PROJECT NAME : CASTLETON-WEST RUTLAND & CASTLETON

PROJECT NUMBER : AC STP 2705(I), AC STP 2908(I) & AC STP 2909(I)

SHEET 1 OF 152 SHEETS

FILE NAME = N:\Projects\VAY\22234\0400_MSTN\870188 Contract Plans.dgn
DATE/TIME = 9/19/2011
USER = 1459

INDEX OF SHEETS

COMPOSITE INDEX

1	COMPOSITE TITLE SHEET
2	COMPOSITE INDEX OF SHEETS
3-6	COMPOSITE QUANTITY SHEETS 1-4
7	COMPOSITE DRIVEWAY HANDWORK DETAILS SHEET
8-10	COMPOSITE MISCELLANEOUS DETAILS SHEETS 1-3
11	COMPOSITE TRAFFIC CONTROL PLAN SHEET

STP 2705(I) CASTLETON-WEST RUTLAND SHEETS

12	TITLE SHEET
13	PROJECT TYPICAL SHEET
14	PAVING DETAILS SHEET
15	DRIVEWAY HANDWORK TABLES SHEET
16-18	QUANTITY SHEETS 1-3
19-20	ITEM DETAIL SUMMARY SHEETS 1-2
21	DITCH CLEANING DETAILS SHEET
22-56	PROJECT LAYOUT SHEETS 1-35
57-73	TRAFFIC SIGN SUMMARY SHEETS 1-17
74	TRAFFIC SIGN DETAILS SHEET
75	TOWN LINE SIGN DETAILS SHEET
76-78	ALUMINUM APPROACH RAILING CONNECTION DETAIL SHEET 1-3
79-80	GUARDRAIL APPROACH SECTION DETAIL SHEETS 1-2
81-86	BRIDGE DETAIL SHEETS 1-6
87	AARDOT 248-907C GRADE CROSSING SCHEMATIC SHEET
88	AARDOT 248-907C GRADE CROSSING DETAIL SHEET
89	AARDOT 248-907C GRADE CROSSING SIGNAL SHEET

STP 2908(I) CASTLETON SHEETS

90	TITLE SHEET
91	PROJECT TYPICAL SHEET
92	PAVING DETAILS SHEET
93	DRIVEWAY HANDWORK TABLES SHEET
94-96	QUANTITY SHEETS 1-3
97	ITEM DETAIL SUMMARY SHEET
98-107	PROJECT LAYOUT SHEETS 1-10
108-115	TRAFFIC SIGN SUMMARY SHEETS 1-8
116	TRAFFIC SIGN DETAILS SHEET
117-119	BRIDGE DETAIL SHEETS 1-3

STP 2909(I) CASTLETON SHEETS

120	TITLE SHEET
121	PROJECT TYPICAL SHEET
122	PAVING DETAILS SHEET
123	DRIVEWAY HANDWORK TABLES SHEET
124-126	QUANTITY SHEETS 1-3
127	ITEM DETAIL SUMMARY SHEET
128	DITCH CLEANING DETAILS SHEET
129-150	PROJECT LAYOUT SHEETS 1-22
151-152	TRAFFIC SIGN SUMMARY SHEETS 1-2

VAOT STANDARDS

C-3A	03-10-08
C-3B	03-10-08
C-10	02-11-08
D-6	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	06-08-09
E-108A	06-08-09
E-110	08-08-95
E-111	03-11-97
E-121	08-08-95
E-123	03-16-04
E-127	08-08-95
E-128A	08-08-95
E-134	08-08-95
E-136B	08-08-95
E-138	05-30-03
E-141	09-20-95
E-145A	12-23-94
E-154	05-01-04
E-164	06-08-09
E-190	06-30-03
E-191	02-01-99
E-192	10-12-00
E-193	08-18-95
G-1	01-03-00
G-1D	01-03-00
G-16	06-01-94
RR-1	06-01-94
SB-R6-82	01-06-95

COMPOSITE INDEX OF SHEETS

PROJECT NAME: CASTLETON - WEST RUTLAND & CASTLETON

PROJECT NUMBER: STP 2705(I), STP 2908(I) & STP 2909(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68cind.i

PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 2 OF 152

COMPOSITE QUANTITY SHEET 1

STATE OF VERMONT
AGENCY OF TRANSPORTATION

STP 2705(I) CASTLETON-W. RUTLAND					STP 2908(I) CASTLETON CL. I			STP 2909(I) CASTLETON			SUMMARY OF ESTIMATED QUANTITIES				
EMPLOYEE TRAINEESHIP	RAILROAD	BRIDGE	FULL C.E.	ROADWAY	BRIDGE	FULL C.E.	ROADWAY	NON-PART.	FULL C.E.	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
							35				35	CY	COMMON EXCAVATION	203.15	
	80										80	CY	UNCLASSIFIED EXCAVATION	203.17	
	30										30	CY	TRENCH EXCAVATION OF EARTH	204.20	
				1			1			1	3	CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	
				116,000			30,750			24,250	171,000	SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	
				175			70			100	345	TON	SUBBASE, RAP	301.40	
				1300			225			725	2250	TON	AGGREGATE SHOULDERS	402.12	
				1			1			1	3	LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	
	95			7930			855			2225	11,105	TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	
				1			1			1	3	LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	
				1						1	2	LU	MAT DENSITY PAY ADJUSTMEMT (N.A.B.I.)	490.32	
				1						1	2	LU	SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.)	490.33	
				1						1	2	LU	LONGITUDINAL JOINT COMPACTION PAY ADJUSTMENT (N.A.B.I.)	490.34	
		150			50						200	LF	REMOVAL OF EXISTING RAILING	525.10	
					50						50	LF	BRIDGE RAILING REPAIR, TYPE I	525.50	
		150									150	LF	BRIDGE RAILING REPAIR, TYPE II	525.55	
				1			11			2	14	EA	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	
				1			2			1	4	EA	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II	604.415	
				1			2			1	4	EA	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS III	604.418	
				1			29			1	31	EA	CHANGING ELEVATION OF SEWER MANHOLES	604.42	
300											300	LF	6 INCH UNDERDRAIN PIPE	605.10	
				175			30			100	305	HR	POWER GRADER RENTAL	608.15	
				150			10			150	310	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	
				55			10			35	100	HR	POWER BROOM RENTAL, TYPE I	608.30	
				300			50			150	500	HR	POWER BROOM RENTAL, TYPE II	608.31	
				225			20			225	470	HR	TRUCK RENTAL	608.37	
				160			30			100	290	HR	LOADER RENTAL, TYPE I	608.40	
				30			25			25	80	CY	STONE FILL, TYPE I	613.10	
							100				100	LF	CAST-IN-PLACE CONCRETE CURB, TYPE B	616.28	
							15				15	LF	REMOVING AND RESETTING CURB	616.40	
							110				110	SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.10	
							180				180	SF	DETECTABLE WARNING SURFACE	618.30	
				85			10			55	150	EA	YIELDING MARKER POSTS	619.17	

DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS

COMPOSITE QUANTITY SHEET #1

PROJECT NAME: CASTLETON - WEST RUTLAND & CASTLETON

PROJECT NUMBER: STP 2705(I), STP 2908(I) & STP 2909(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68cqsl.i

PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 3 OF 152

COMPOSITE QUANTITY SHEET 2

STATE OF VERMONT
AGENCY OF TRANSPORTATION

STP 2705(I) CASTLETON-W. RUTLAND					STP 2908(I) CASTLETON CL I			STP 2909(I) CASTLETON			SUMMARY OF ESTIMATED QUANTITIES				
EMPLOYEE TRAINEESHIP	RAILROAD	BRIDGE	FULL C.E.	ROADWAY	BRIDGE	FULL C.E.	ROADWAY	NON-PART.	FULL C.E.	ROADWAY	QUANTITIES	UNIT	ITEMS	ITEM NO.	ROUNDING
				3950			250			200	4400	LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	
				7800						1400	9200	LF	STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS	621.205	
				130			175				305	LF	HD STEEL BEAM GUARDRAIL, GALVANIZED	621.21	
				350							350	LF	HD STEEL BEAM GUARDRAIL, GALVANIZED/NESTED	621.216	
				175							175	LF	HD STEEL BEAM GUARDRAIL, GALVANIZED/NESTED W/8 FEET POSTS	621.217	
				2			2				4	EA	TERMINAL CONNECTOR FOR STEEL BEAM GUARDRAIL	621.53	
				59			6			8	73	EA	ANCHOR FOR STEEL BEAM RAIL	621.60	
				6							6	EA	GUARDRAIL APPROACH SECTION, GALVANIZED TYPE I	621.70	
				2							2	EA	GUARDRAIL APPROACH SECTION, GALVANIZED TYPE II	621.71	
				30							30	LF	ALUMINUM APPROACH RAILING	621.74	
				12,200			375			1400	13,975	LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	
							26				26	EA	ADJUST ELEVATION OF VALVE BOX	629.20	
				2300			600			1100	4000	HR	UNIFORMED TRAFFIC OFFICERS	630.10	
				3400			900			1600	5900	HR	FLAGGERS	630.15	
			0.34			0.33			0.33		1	LS	FIELD OFFICE, ENGINEERS	631.10	
			0.34			0.33			0.33		1	LS	TESTING EQUIPMENT, CONCRETE	631.16	
			0.34			0.33			0.33		1	LS	TESTING EQUIPMENT, BITUMINOUS	631.17	
			1000			1000			1000		3000	DL	FIELD OFFICE, TELEPHONE (N.A.B.I.)	631.26	
520											520	HR	EMPLOYEE TRAINEESHIP	634.10	
				0.34			0.33			0.33	1	LS	MOBILIZATION/DEMOBILIZATION	635.11	
				1							1	LS	TRAFFIC CONTROL (STP 2705(I))	641.10	
							1				1	LS	TRAFFIC CONTROL (STP 2908(I))	641.10	
										1	1	LS	TRAFFIC CONTROL (STP 2909(I))	641.10	
				0.34			0.33			0.33	1	LS	PUBLIC RELATIONS OFFICER	641.12	
				2			1			2	5	EA	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	
													BEGIN OPTION AA		
				57,250			13,250			40,000	110,500	LF	DURABLE 4 INCH WHITE LINE, THERMOPLASTIC	646.402	
				57,250			13,250			40,000	110,500	LF	DURABLE 4 INCH WHITE LINE, EPOXY PAINT	646.403	
				57,250			13,250			40,000	110,500	LF	DURABLE 4 INCH WHITE LINE, POLYUREA	646.404	
													END OPTION AA		
													BEGIN OPTION BB		
				66,150			11,600			39,250	117,000	LF	DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC	646.412	
				66,150			11,600			39,250	117,000	LF	DURABLE 4 INCH YELLOW LINE, EPOXY PAINT	646.413	
				66,150			11,600			39,250	117,000	LF	DURABLE 4 INCH YELLOW LINE, POLYUREA	646.414	
													END OPTION BB		
													BEGIN OPTION CC		
				500						1100	1600	LF	DURABLE 6 INCH WHITE LINE, THERMOPLASTIC	646.422	
				500						1100	1600	LF	DURABLE 6 INCH WHITE LINE, EPOXY PAINT	646.423	
				500						1100	1600	LF	DURABLE 6 INCH WHITE LINE, POLYUREA	646.424	
													END OPTION CC		
													BEGIN OPTION DD		
				400						700	1100	LF	DURABLE 6 INCH YELLOW LINE, THERMOPLASTIC	646.432	
				400						700	1100	LF	DURABLE 6 INCH YELLOW LINE, EPOXY PAINT	646.433	
				400						700	1100	LF	DURABLE 6 INCH YELLOW LINE, POLYUREA	646.434	
													END OPTION DD		

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

COMPOSITE QUANTITY SHEET #2

PROJECT NAME: CASTLETON - WEST RUTLAND & CASTLETON

PROJECT NUMBER: STP 2705(I), STP 2908(I) & STP 2909(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68cqs2.i

PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 4 OF 152

COMPOSITE QUANTITY SHEET 3

STATE OF VERMONT
AGENCY OF TRANSPORTATION

STP 2705(I) CASTLETON-W. RUTLAND					STP 2908(I) CASTLETON CL I			STP 2909(I) CASTLETON			SUMMARY OF ESTIMATED QUANTITIES				
EMPLOYEE TRAINEESHIP	RAILROAD	FULL BRIDGE	FULL C.E.	ROADWAY	BRIDGE	FULL C.E.	ROADWAY	NON-PART.	FULL C.E.	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
													BEGIN OPTION EE		
							825			250	1075	LF	DURABLE 8 INCH WHITE LINE, THERMOPLASTIC	646.442	
							825			250	1075	LF	DURABLE 8 INCH WHITE LINE, EPOXY PAINT	646.443	
							825			250	1075	LF	DURABLE 8 INCH WHITE LINE, POLYUREA	646.444	
													END OPTION EE		
													BEGIN OPTION FF		
				1300						500	1800	LF	DURABLE 8 INCH YELLOW LINE, THERMOPLASTIC	646.452	
				1300						500	1800	LF	DURABLE 8 INCH YELLOW LINE, EPOXY PAINT	646.453	
				1300						500	1800	LF	DURABLE 8 INCH YELLOW LINE, POLYUREA	646.454	
													END OPTION FF		
													BEGIN OPTION GG		
				200						1925	2125	LF	DURABLE 12 INCH WHITE LINE, THERMOPLASTIC	646.462	
				200						1925	2125	LF	DURABLE 12 INCH WHITE LINE, EPOXY PAINT	646.463	
				200						1925	2125	LF	DURABLE 12 INCH WHITE LINE, POLYUREA	646.464	
													END OPTION GG		
													BEGIN OPTION HH		
				180			90			125	395	LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482	
				180			90			125	395	LF	DURABLE 24 INCH STOP BAR, EPOXY PAINT	646.483	
				180			90			125	395	LF	DURABLE 24 INCH STOP BAR, POLYUREA	646.484	
													END OPTION HH		
													BEGIN OPTION II		
				38			28			53	119	EA	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	
				38			28			53	119	EA	DURABLE LETTER OR SYMBOL, EPOXY PAINT	646.493	
													END OPTION II		
													BEGIN OPTION JJ		
							425				425	LF	DURABLE CROSSWALK MARKING, THERMOPLASTIC	646.502	
							425				425	LF	DURABLE CROSSWALK MARKING, EPOXY PAINT	646.503	
													END OPTION JJ		
				2							2	EA	DURABLE RAILROAD CROSSING SYMBOL, TYPE I TAPE	646.511	
													BEGIN OPTION KK		
				2							2	EA	DURABLE RAILROAD CROSSING SYMBOL, THERMOPLASTIC	646.512	
				2							2	EA	DURABLE RAILROAD CROSSING SYMBOL, EPOXY PAINT	646.513	
													END OPTION KK		
				114,500			26,500			49,750	190,750	LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.602	
				132,300			23,200			48,750	204,250	LF	TEMPORARY 4 INCH YELLOW LINE, PAINT	646.612	
				1000						2200	3200	LF	TEMPORARY 6 INCH WHITE LINE, PAINT	646.622	
				800						1400	2200	LF	TEMPORARY 6 INCH YELLOW LINE, PAINT	646.632	
				360			180			200	740	LF	TEMPORARY 24 INCH STOP BAR, PAINT	646.682	
				68			56			86	210	EA	TEMPORARY LETTER OR SYMBOL, PAINT	646.692	
							850				850	LF	TEMPORARY CROSSWALK MARKING, PAINT	646.702	
				4							4	EA	TEMPORARY RAILROAD CROSSING SYMBOL, PAINT	646.712	
				5300			850			3000	9150	EA	LINE STRIPING TARGETS	646.76	
				275						700	975	LF	PAINTED CURB	646.81	

DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS

COMPOSITE QUANTITY SHEET #3

PROJECT NAME: CASTLETON - WEST RUTLAND & CASTLETON

PROJECT NUMBER: STP 2705(I), STP 2908(I) & STP 2909(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68cqs3.i

PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 5 OF 152

COMPOSITE QUANTITY SHEET 4

STATE OF VERMONT
AGENCY OF TRANSPORTATION

STP 2705(I) CASTLETON-W. RUTLAND					STP 2908(I) CASTLETON CLASS I				STP 2909(I) CASTLETON		SUMMARY OF ESTIMATED QUANTITIES				
EMPLOYEE TRAINEESHIP	RAILROAD	BRIDGE	FULL C.E.	ROADWAY	NON-PART.	BRIDGE	FULL C.E.	ROADWAY	FULL C.E.	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
	85										85	SY	GEOTEXTILE UNDER RAILROAD BALLAST	649.21	
				50				50		75	175	SY	GEOTEXTILE UNDER STONE FILL	649.31	
				140				50		125	315	LB	SEED	651.15	
				400				400		400	1200	LB	FERTILIZER	651.18	
				1				1		1	3	TON	AGRICULTURAL LIMESTONE	651.20	
				1				1		1	3	TON	HAY MULCH	651.25	
				50				50		50	150	CY	TOPSOIL	651.35	
				5400						4500	9900	SY	TEMPORARY EROSION MATTING	653.20	
				617				172		46	835	SF	TRAFFIC SIGNS, TYPE A	675.20	
				2150				550		225	2925	LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	
				161				61		9	231	EA	REMOVING SIGNS	675.50	
				5				2		3	10	EA	ERECTING SALVAGED SIGNS	675.60	
				57				6		8	71	EA	DELINEATOR WITH STEEL POST	676.10	
				1				1		1	3	LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	
	157										157	EA	SPECIAL PROVISION (REMOVAL AND REPLACEMENT OF CROSS TIES)	900.620	
	4										4	EA	SPECIAL PROVISION (THERMITE WELDING)	900.620	
	360										360	LF	SPECIAL PROVISION (CONTINUOUS WELDED RAIL)	900.640	
	400										400	LF	SPECIAL PROVISION (RESURFACE TRACK APPROACHES)	900.640	
	100										100	LF	SPECIAL PROVISION (RUBBER RAIL SEAL)	900.640	
			0.34				0.33		0.33		1	LS	SPECIAL PROVISION (INTELLIGENT COMPACTION EQUIPMENT)	900.645	
	1										1	LS	SPECIAL PROVISION (RAIL - HIGHWAY CROSSING ACTIVE WARNING SYSTEM) (AARDOT 248-907C)	900.645	
	1										1	LU	SPECIAL PROVISION (MAINTENANCE OF RAILROAD TRAFFIC) (N.A.B.I.)	900.650	
				1800				750		2000	4550	SY	SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)	900.675	
				26						14	40	TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE II)	900.680	
	150										150	TON	SPECIAL PROVISION (RAILROAD BALLAST)	900.680	
				5575				2675			8250	TON	SPECIAL PROVISION (WARM-MIX ASPHALT, FOAMING PROCESS)	900.680	
										6200	6200	TON	SPECIAL PROVISION (WARM-MIX ASPHALT, ORGANIC WAX ADDITIVE)	900.680	
				485				130		300	915	CWT	SPECIAL PROVISION (EMULSIFIED ASPHALT)(RS-1H OR CRS-1H)	900.683	

DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS

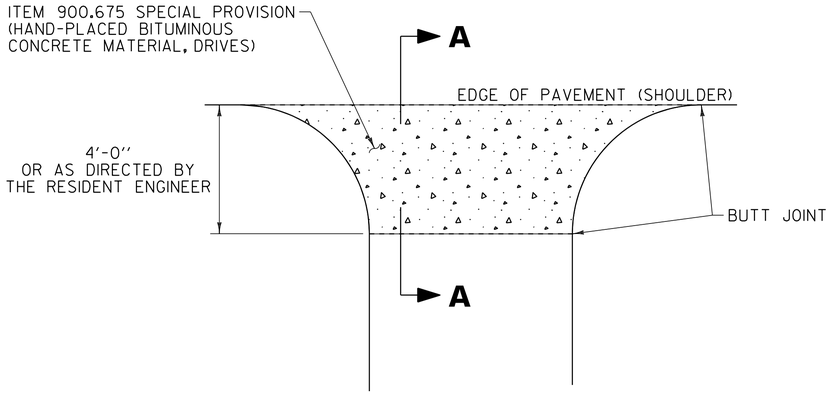
COMPOSITE QUANTITY SHEET #4

PROJECT NAME:

PROJECT NUMBER: STP 2705(I), STP 2908(I) & STP 2909(I)

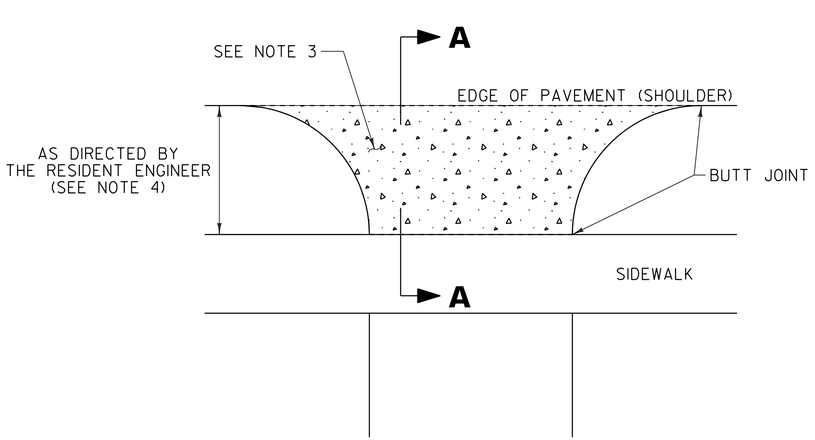
FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE:

PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 6 OF 152



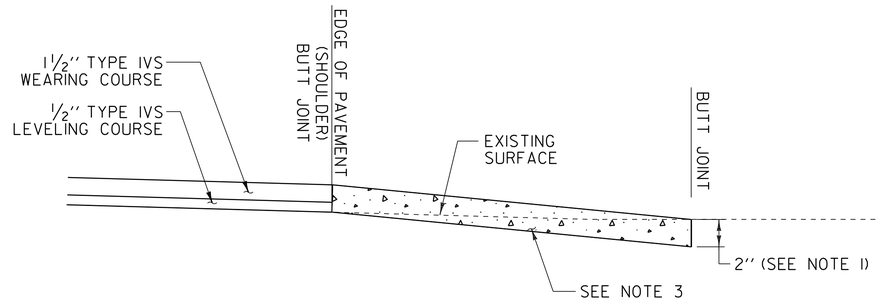
PLAN

DRIVEWAYS IN COLD PLANE AREAS

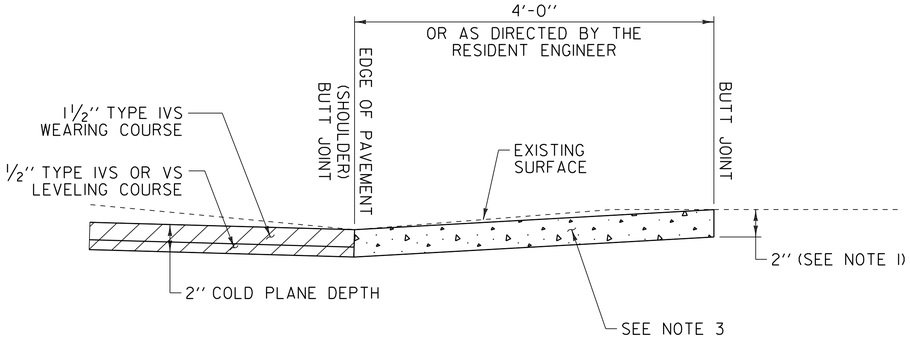


PLAN

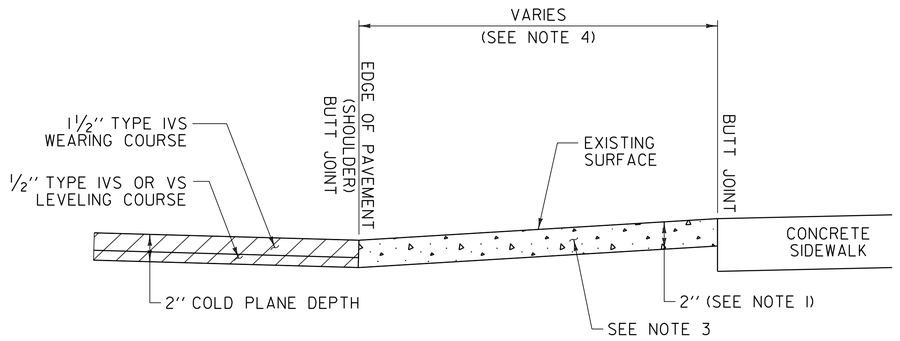
DRIVEWAY WITH SIDEWALK IN COLD PLANE AREAS



SECTION A–A
OVERLAY AREAS



SECTION A–A
DRIVEWAYS IN COLD PLANE AREAS



SECTION A–A

DRIVEWAY WITH SIDEWALK IN COLD PLANE AREAS

NOTES:

1. PAVING LIFT NOT TO EXCEED 2''.
2. THE COST OF PLACING SUBBASE MATERIAL, CLEANING EXISTING PAVED SURFACES, INCLUDING POWER EQUIPMENT, AND FOR FILLING JOINTS, CRACKS AND HOLES WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES).
3. EXCAVATION OR COLD PLANING NEEDED TO ACHIEVE PROPER DRIVE SLOPES WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES).
4. THE CONTRACTOR SHALL PAVE TO THE EXISTING CONCRETE SIDEWALK AS DIRECTED BY THE RESIDENT ENGINEER.

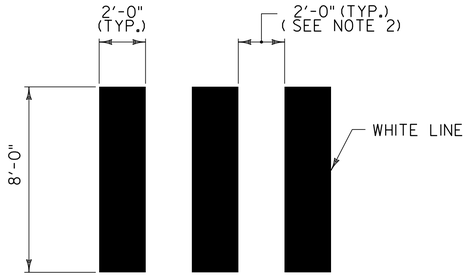
NOT TO SCALE

COMPOSITE DRIVEWAY HANDWORK DETAILS SHEET

PROJECT NAME: CASTLETON - WEST RUTLAND & CASTLETON

PROJECT NUMBER: STP 2705(1), STP 2908(1) & STP 2909(1)

FILE NAME: p07cl68.dgn	PLOT DATE: 04-JUN-2013 09:4
PROJECT LEADER: D.E.G.	DRAWN BY: W.G.P.
DESIGNED BY: M.J.M.	CHECKED BY: D.E.G.
IPARM FILE: p07cl68cdh.i	SHEET 7 OF 152

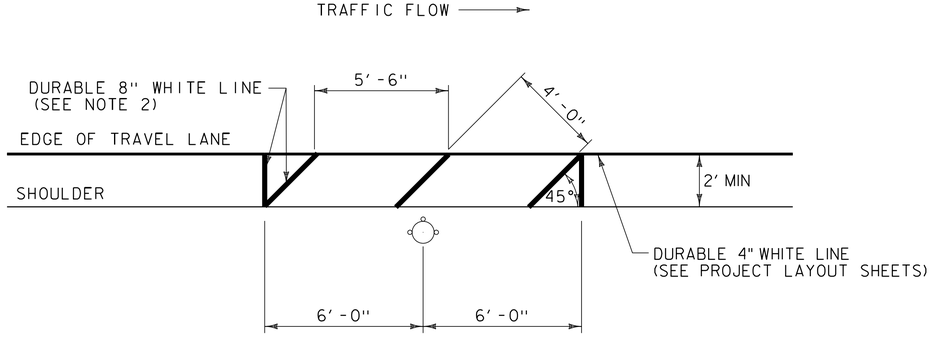


DETAIL OF CROSSWALK MARKINGS

NOTES:

1. THE PER FOOT COST OF INSTALLED CROSSWALK SHALL BE PAID AS ITEM 646.502 DURABLE CROSSWALK MARKING, THERMOPLASTIC, ITEM 646.503 DURABLE CROSSWALK MARKING, EPOXY PAINT OR ITEM 646.702 TEMPORARY CROSSWALK MARKING, PAINT

2. ADJUST SPACING (12" - 24") TO AVOID WHEEL PATHS.



FIRE HYDRANT PAVEMENT MARKING DETAIL

STP 2908(I):

VT. ROUTE 4A CASTLETON:
STA 150+58.0 LT
STA 156+17.0 LT
STA 161+06.0 LT
STA 165+34.0 LT
STA 166+19.0 RT
STA 168+85.0 LT
STA 171+84.0 RT
STA 176+50.0 RT
STA 180+18.0 RT
STA 185+94.0 RT
STA 193+58.0 LT

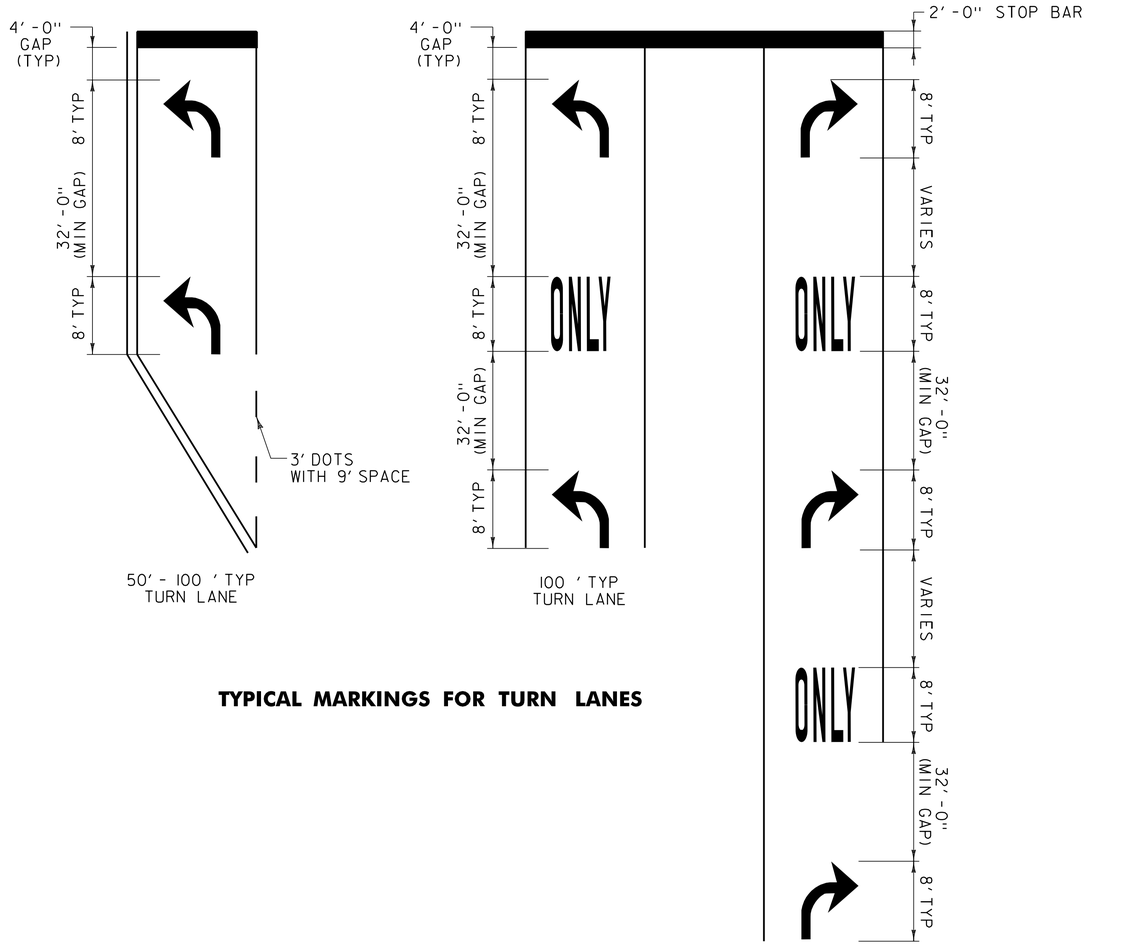
STP 2909(I):

VT. ROUTE 30 CASTLETON:
STA 84+63.0 RT
STA 93+59.0 RT
STA 99+50.0 RT
STA 119+82.0 RT
STA 125+46.0 RT
STA 130+49.0 RT
STA 138+91.0 RT
STA 144+25.0 RT
STA 147+65.0 RT

NOTES:

1. THE CONTRACTOR SHALL ADJUST THE PLACEMENT OF THE EDGE HYDRANT PAVEMENT MARKINGS TO MEET THE EXISTING SITE CONSTRAINTS AS DIRECTED BY THE RESIDENT ENGINEER.

2. THE PER FOOT COST OF INSTALLED FIRE HYDRANT PAVEMENT MARKINGS SHALL BE PAID AS ITEM 646.442 DURABLE 8 INCH WHITE LINE, THERMOPLASTIC, ITEM 646.443 DURABLE 8 INCH WHITE LINE, EPOXY PAINT OR ITEM 646.444 DURABLE 8 INCH WHITE LINE, POLYUREA.



TYPICAL MARKINGS FOR TURN LANES

NOTES:

1. TURN ARROWS SHALL BE PLACED AT THE BEGIN AND END OF THE LEFT OR RIGHT TURN LANE.

2. IF LANE LENGTH IS LESS THAN 100', TURN ARROWS SHOULD BE PLACED AT THE BEGINNING AND END OF THE LEFT OR RIGHT TURN LANE.

3. THE "ONLY" WORD MARKINGS SHALL BE USED TO SUPPLEMENT LANE-USE ARROW MARKINGS FOR TURN LANES 100' OR LONGER.

4. THE LONGITUDINAL SPACE BETWEEN WORD OR SYMBOL MESSAGE MARKINGS, SHOULD BE AT LEAST FOUR TIMES THE HEIGHT OF THE CHARACTERS FOR LOW SPEED ROADS, BUT NOT MORE THAN TEN TIMES THE HEIGHT OF THE CHARACTERS UNDER ANY CONDITIONS.

5. STOP BARS ARE INSTALLED ONLY WHERE A STOP SIGN OR TRAFFIC SIGNAL ARE LOCATED.

6. MORE ARROWS AND ONLYS ARE OPTIONAL WHEN SPACE PERMITS. ARROW MARKINGS START AT THE BEGINNING OF THE SOLID LANE LINE.

7. EXCLUSIVE TURN LANES (LEFT OR RIGHT) LANE LINES SHALL BE SOLID AND EXTEND BACK FROM THE STOP LINE TO THE POINT OF FULL LANE WIDTH OF THE TURN LANE. 3' DOTS WITH A 9' SPACE SHOULD BE EXTENDED THE FULL LENGTH OF THE LANE TAPER.

NOT TO SCALE

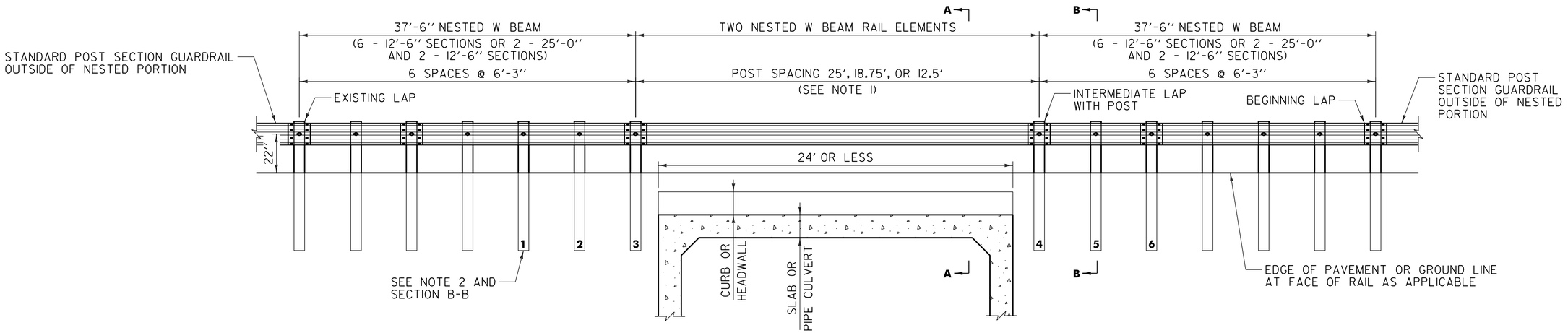
COMPOSITE MISCELLANEOUS DETAILS SHEET #1

PROJECT NAME: CASTLETON - WEST RUTLAND & CASTLETON

PROJECT NUMBER: STP 2705(I), STP 2908(I) & STP 2909(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68cmdl.i

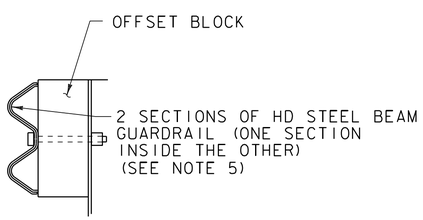
PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 8 OF 152



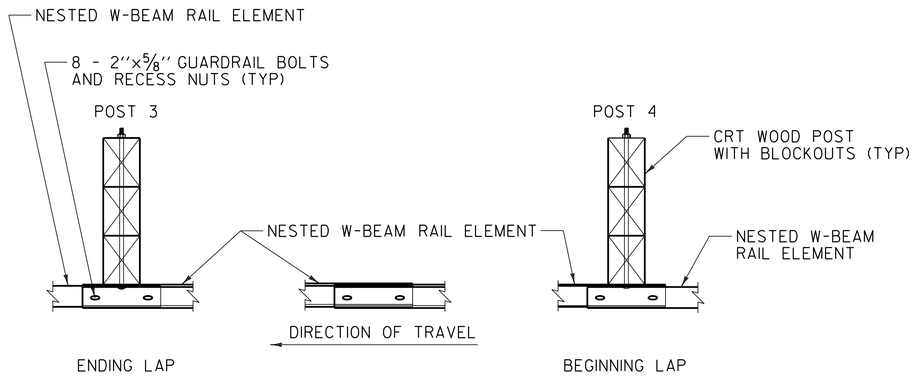
STEEL BEAM GUARDRAIL AT LARGE CULVERT DETAIL
ELEVATION

STP 2705(I):

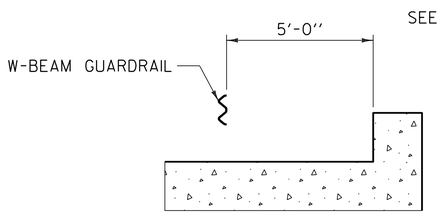
VT. ROUTE 4A CASTLETON	STA 263+72.3 TO STA 264+59.8 RT (87.5 LF)
VT. ROUTE 4A CASTLETON	STA 263+72.3 TO STA 264+59.8 LT (87.5 LF)
VT. ROUTE 4A IRA	STA 50+20.3 TO STA 51+07.8 RT (87.5 LF)
VT. ROUTE 4A IRA	STA 50+20.3 TO STA 51+07.8 LT (87.5 LF)
VT. ROUTE 4A WEST RUTLAND	STA 66+08.8 TO STA 66+93.3 RT (84.5 LF)



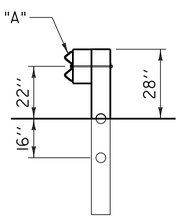
DETAIL A



INTERMEDIATE LAP WITHOUT POST



SECTION A–A
(SEE NOTE 3)



SECTION B–B
(SEE NOTE 2)

NOTES:

1. 25'-0" RAIL LENGTHS MAY BE USED TO ELIMINATE THE INTERMEDIATE LAP WITHOUT A POST. DO NOT PLACE A LAP WITHOUT A POST UNLESS NEEDED DUE TO LENGTH OF GAP.
2. POSTS 1 THRU 6 ARE CRT POSTS WITH TWO BLOCKOUTS. SEE SECTION B-B FOR DETAILS.
3. INSTALL THE BACK FACE OF THE NESTED GUARDRAIL A MINIMUM OF 5'-0" FROM THE FACE OF THE CURB-LIKE HEADWALL.
4. SEE STANDARD G-1 FOR STEEL BEAM GUARDRAIL DETAILS.
5. THIS WORK SHALL BE PAID UNDER ITEM 621.216 HD STEEL BEAM GUARDRAIL, GALVANIZED/NESTED OR ITEM 621.217 HD STEEL BEAM GUARDRAIL, GALVANIZED/NESTED W/8 FEET POSTS AT A PAY FACTOR OF 1.0 AS DIRECTED BY THE RESIDENT ENGINEER.
6. THIS DETAIL TO BE USED AS INDICATED ON THE ITEM DETAIL SUMMARY SHEET AT THE STATIONS INDICATED ABOVE OR AS DIRECTED BY THE RESIDENT ENGINEER.

DOUBLE–NESTED STEEL BEAM GUARDRAIL SYSTEM

NOT TO SCALE

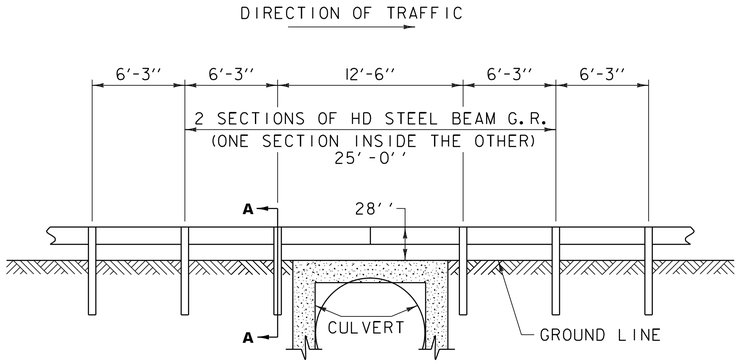
COMPOSITE MISCELLANEOUS DETAILS SHEET #2

PROJECT NAME: CASTLETON - WEST RUTLAND & CASTLETON

PROJECT NUMBER: STP 2705(I), STP 2908(I) & STP 2909(I)

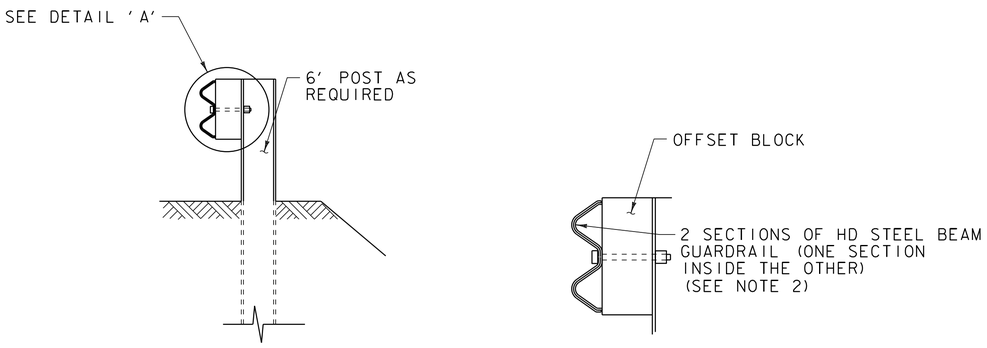
FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68cmd2.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 9 OF 152



STEEL BEAM GUARDRAIL AT SMALL CULVERT DETAIL

STP 2705(I):
VT. ROUTE 4A CASTLETON STA 269+84.0 TO STA 270+09.0 RT (25' LF)
VT. ROUTE 4A CASTLETON STA 269+84.0 TO STA 270+09.0 LT (25' LF)
VT. ROUTE 4A WEST RUTLAND STA 66+40.0 TO STA 66+65.0 LT (25' LF)

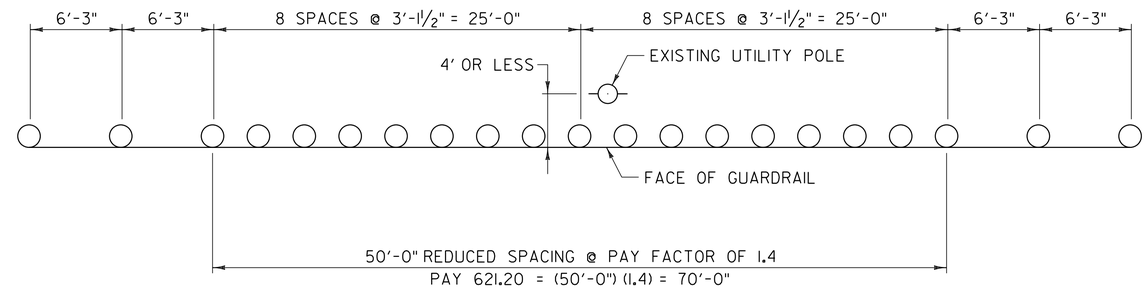


SECTION A–A **DETAIL A**

DOUBLE–NESTED STEEL BEAM GUARDRAIL SYSTEM

NOTES

1. SEE STANDARD G-1FOR STEEL BEAM GUARDRAIL DETAILS.
2. THIS WORK SHALL BE PAID UNDER ITEM 621.216 HD STEEL BEAM GUARDRAIL, GALVANIZED/NESTED AT A PAY FACTOR OF 1.0.
3. THIS DETAIL TO BE USED AS INDICATED ON THE ITEM DETAIL SUMMARY SHEET OR AS DIRECTED BY THE RESIDENT ENGINEER.



REDUCED STEEL BEAM GUARDRAIL POST SPACING AT UTILITY POLE DETAIL

STP 2705(I):
VT. ROUTE 4A IRA STA 47+54.0 LT

STP 2909(I):
VT. ROUTE 30 CASTLETON STA 259+16.0 LT
VT. ROUTE 30 CASTLETON STA 260+00.0 LT
VT. ROUTE 30 CASTLETON STA 262+05.0 LT
VT. ROUTE 30 CASTLETON STA 262+18.0 LT
VT. ROUTE 30 CASTLETON STA 263+19.0 LT
VT. ROUTE 30 CASTLETON STA 265+03.0 LT
VT. ROUTE 30 CASTLETON STA 270+80.0 LT

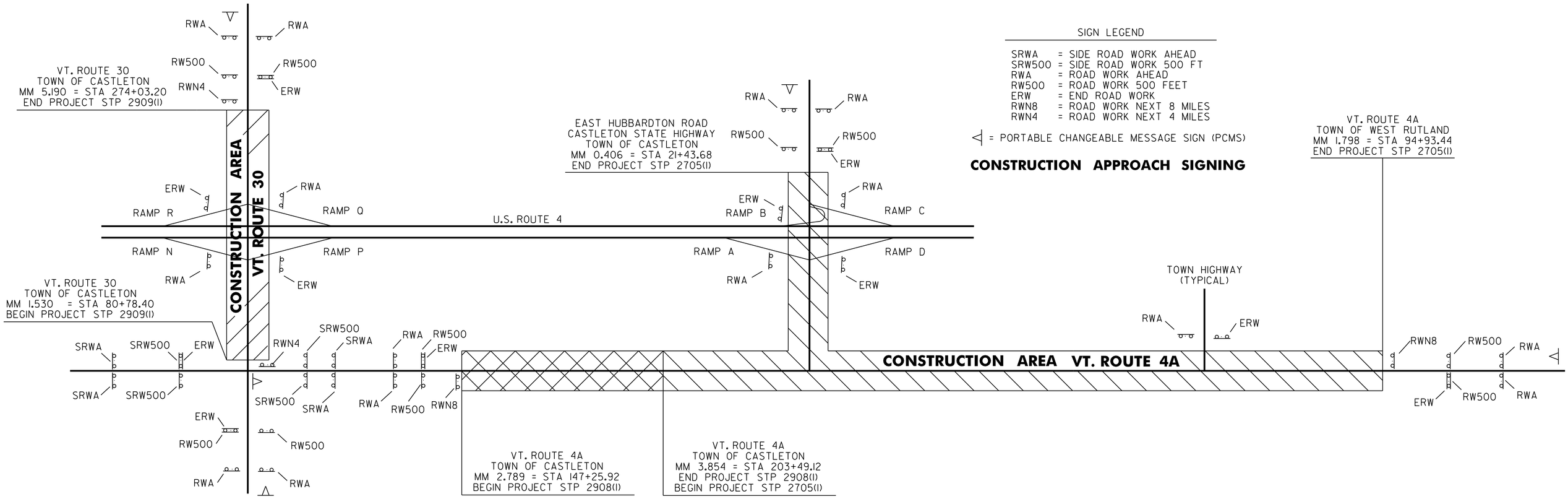
NOT TO SCALE

COMPOSITE MISCELLANEOUS DETAILS SHEET #3

PROJECT NAME: CASTLETON - WEST RUTLAND & CASTLETON

PROJECT NUMBER: STP 2705(I), STP 2908(I) & STP 2909(I)

FILE NAME: p07cl68.dgn PLOT DATE: 04-JUN-2013 09:
PROJECT LEADER: D.E.G. DRAWN BY: W.G.P.
DESIGNED BY: M.J.M. CHECKED BY: D.E.G.
IPARM FILE: p07cl68cmd3.i SHEET 10 OF 152



SIGN LEGEND

SRWA = SIDE ROAD WORK AHEAD
SRW500 = SIDE ROAD WORK 500 FT
RWA = ROAD WORK AHEAD
RW500 = ROAD WORK 500 FEET
ERW = END ROAD WORK
RWN8 = ROAD WORK NEXT 8 MILES
RWN4 = ROAD WORK NEXT 4 MILES

◁ = PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

CONSTRUCTION APPROACH SIGNING

STP 2705(I) CASTLETON - WEST RUTLAND

STP 2908(I) CASTLETON

STP 2909(I) CASTLETON

CONSTRUCTION AREA

STP 2909(I) CASTLETON							
HIGHWAY NAME	RWA	ERW	RW500	RWN4	SRW500	SRWA	OTHER
VT. ROUTE 30 - BEGIN PROJECT	2	1	2	1			1-PCMS
VT. ROUTE 4A		2			4	4	
CASTLETON MEADOWS LN (TH-71)	1	1					
PRESTON LANE (TH-85)	1	1					
U.S. ROUTE 4 RAMP P		1					
U.S. ROUTE 4 RAMP N	1						
U.S. ROUTE 4 RAMP Q	1						
U.S. ROUTE 4 RAMP R		1					
ELEMENTARY SCHOOL RD (TH-68)	1	1					
SHELDON ROAD (TH-35)	1	1					
DRAKE ROAD (TH-24)	1	1					
VT. ROUTE 30 - END PROJECT	2	1	2	1			1-PCMS
TOTAL	11	11	4	2	4	4	2-PCMS

STP 2908(I) CASTLETON					
HIGHWAY NAME	RWA	ERW	RW500	RWN8	OTHER
VT. ROUTE 4A - BEGIN PROJECT	2		2	1	1-PCMS
CEMETERY ROAD (TH-5)	1	1			
GLENBROOK ROAD (TH-11)	1	1			
SOUTH STREET (TH-4)	1	1			
NORTH ROAD (TH-5)	1	1			
SEMINARY STREET (TH-10)	1	1			
ELM STREET (TH-9)	1	1			
MECHANIC STREET (TH-6)	1	1			
HILL STREET (TH-7)	1	1			
TOTAL	10	8	2	1	1-PCMS

STP 2705(I) CASTLETON - WEST RUTLAND					
HIGHWAY NAME	RWA	ERW	RW500	RWN8	OTHER
CRAMPTON ROAD (TH-8)	1	1			
PIONTEK ROAD (TH-46)	1	1			
BIRDS EYE ROAD (TH-48)	1	1			
BIRDS EYE ROAD (TH-5)	1	1			
WHIPPLE HOLLOW ROAD (TH-4)	1	1			
VT. ROUTE 4A - END PROJECT	2	1	2	1	1-PCMS
U.S. ROUTE 4 RAMP A	1				
U.S. ROUTE 4 RAMP B		1			
FRISBIE HILL ROAD (TH-31)	1	1			
U.S ROUTE 4 RAMP C	1				
U.S. ROUTE 4 RAMP D		1			
CASTLETON STATE HIGHWAY	2	1	2		1-PCMS
TOTAL	12	10	4	1	2-PCMS

NOTES:

1. SEE VAOT STD. E-100 FOR ADDITIONAL SIGN PLACEMENT DETAILS.
2. TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH SECTION 6 OF THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
3. CONSTRUCTION SIGNS SHALL BE IN NEW OR LIKE NEW CONDITION PER VAOT STANDARDS.
4. DIAMOND SHAPED SIGNS SHALL BE 4' X 4' WITH BLACK LEGEND ON FLUORESCENT ORANGE BACKGROUND.
5. PORTABLE CHANGEABLE MESSAGE SIGNS ARE TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER.
6. PAYMENT FOR ALL CONSTRUCTION, FLAGGER AND LANE CLOSURE SIGNING AND CONES WILL BE MADE UNDER ITEM 641.10 TRAFFIC CONTROL (STP 2705(I)), ITEM 641.10 TRAFFIC CONTROL (STP 2908(I)) AND ITEM 641.10 TRAFFIC CONTROL (STP 2909(I)).
7. CONES SHALL BE USED FOR DELINEATING THE TRAVEL SPACE ALONG THE TANGENT FOR THE ENTIRE LENGTH OF ANY LANE CLOSURE.
8. FLAGGER STATIONS SHALL BE A MAXIMUM OF 1500 FEET FROM THE FLAGGER AHEAD SIGN. WHEN FLAGGER STATIONS ARE MOVED BEYOND THIS DISTANCE, THE FLAGGER AHEAD SIGN SHALL BE MOVED ACCORDINGLY.
9. FLAGGER AHEAD SIGNS SHALL BE TURNED OR REMOVED WHEN FLAGGING OPERATIONS CEASE FOR MORE THAN 15 MINUTES.
10. TEMPORARY PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION OF THE CURB RAMPS IN CONFORMANCE WITH THE CURRENT MUTCD AND ADA ACCESSIBILITY GUIDELINES. THE CONTRACTOR SHALL PREPARE A PLAN THAT ADDRESSES INTENDED METHODS OF MAINTAINING TEMPORARY PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION SITE AND SUBMIT IT TO THE RESIDENT ENGINEER FOR REVIEW AND APPROVAL PRIOR TO BEGINNING THIS WORK.

NOT TO SCALE

COMPOSITE TRAFFIC CONTROL PLAN SHEET

PROJECT NAME: CASTLETON - WEST RUTLAND & CASTLETON

PROJECT NUMBER: STP 2705(I), STP 2908(I) & STP 2909(I)

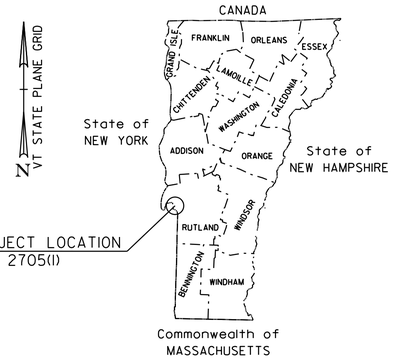
FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68ctc.i

PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 11 OF 152

STATE OF VERMONT

AGENCY OF TRANSPORTATION

INDEX OF SHEETS
SEE SHEET 2

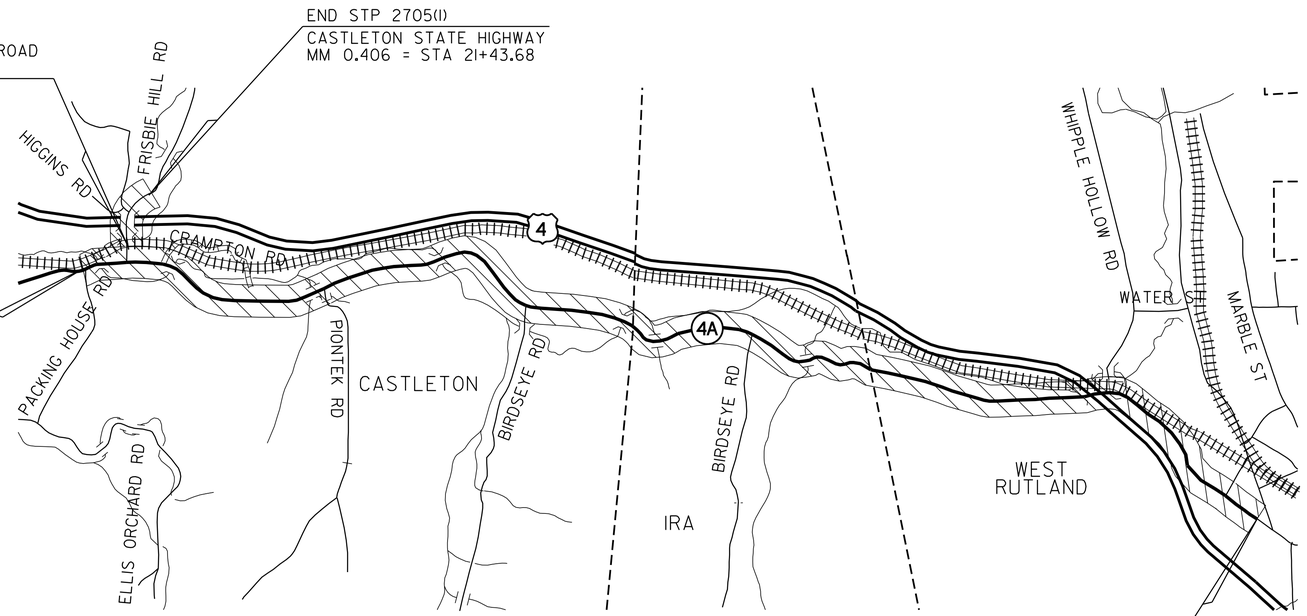


PROPOSED IMPROVEMENT
TOWNS OF CASTLETON, IRA, & WEST RUTLAND
COUNTY OF RUTLAND
VT. ROUTE 4A
MAJOR COLLECTOR

BEGINNING IN THE TOWN OF CASTLETON ON VT. ROUTE 4A AT MILE MARKER 3.854 = STA 203+49.12 AND EXTENDING EAST FOR A DISTANCE OF 32,635.68 FEET (6.181 MILES) TO A POINT IN THE TOWN OF WEST RUTLAND AT MILE MARKER 1.798 = STA 94+93.44. THE PROJECT RESUMES IN THE TOWN OF CASTLETON ON THE CASTLETON STATE HIGHWAY AT MILE MARKER 0.000 = STA 0+00.00 AND EXTENDING NORTHERLY FOR A DISTANCE OF 2143.68 FEET (0.406 MILE) TO A POINT IN THE TOWN OF CASTLETON AT MILE MARKER 0.406 = STA 21+43.68.

LENGTH OF ROADWAY 34,779.36 FT (6.587 MILES)
LENGTH OF PROJECT 34,779.36 FT (6.587 MILES)

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING AND RESURFACING OF THE EXISTING HIGHWAY WITH A SHIM/LEVELING COURSE AND WEARING COURSE, NEW PAVEMENT MARKINGS, DRAINAGE IMPROVEMENTS, GUARDRAIL IMPROVEMENTS, AT-GRADE RAIL CROSSING REHABILITATION, NEW SIGNS AND INCIDENTAL ITEMS.



QUALITY ASSURANCE PROGRAM: LEVEL 3

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 (SR SR SR)
TOP OF CUT
TOE OF SLOPE

SURVEYED BY : NA
SURVEYED DATE : NA

DATUM
VERTICAL NA
HORIZONTAL NA

BITUMINOUS CONCRETE SUPERPAVE MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESAL	58-28
DESIGN NUMBER OF GYRATIONS	65
PERFORMANCE GRADE ASPHALT BINDER	SEE SECTION 490 GENERAL SPECIAL PROVISIONS & SPECIAL PROVISIONS

TRAFFIC DATA

LOCATION	AADT		DHV		ESALs	ESALs
	2012	2022	2012	2022	2012~2022	2012~2032
BEGIN PROJECT TO CASTLETON STATE HIGHWAY	4100	4300	460	480	492,000	1,131,000
CASTLETON STATE HIGHWAY TO WHIPPLE HOLLOW ROAD	1700	1800	210	230	190,000	429,000
WHIPPLE HOLLOW ROAD TO END PROJECT	2600	2800	290	320	402,000	894,000
BEGIN PROJECT TO US 4 EXIT 5 RAMPS A & D	2200	2300	270	280	366,000	918,000
US 4 EXIT 5 RAMPS A & D TO US 4 EXIT 5 RAMPS B & C	1800	1900	230	240	355,000	894,000
US 4 EXIT 5 RAMPS B & C TO END PROJECT	1200	1200	160	160	246,000	599,000

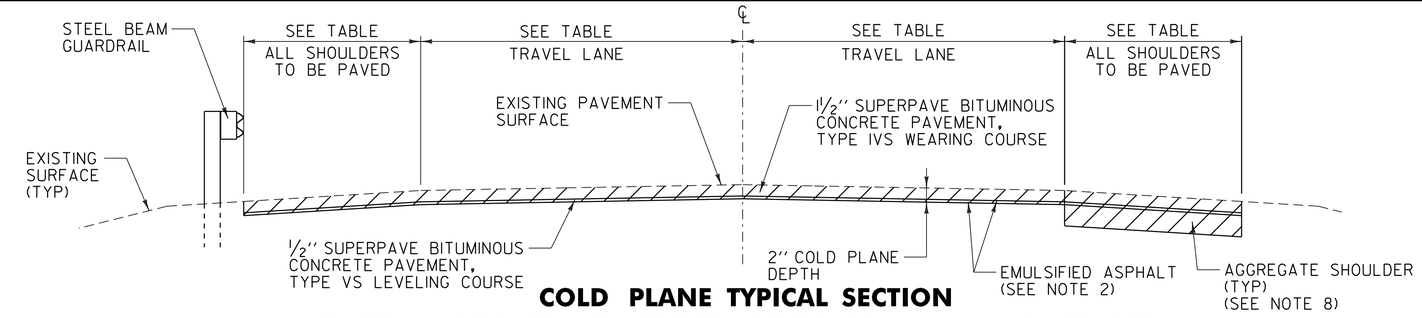
THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.

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.

PROJECT MANAGER : MIKE FOWLER

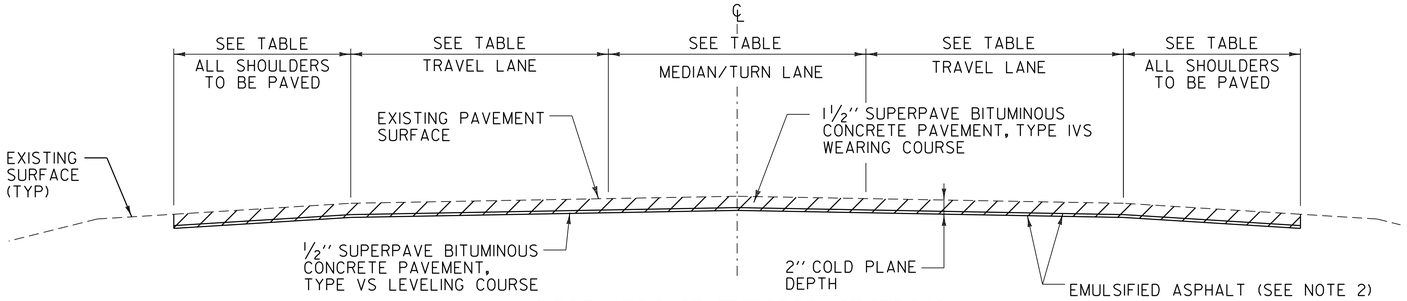
PROJECT NAME : CASTLETON - WEST RUTLAND
PROJECT NUMBER : STP 2705(I)

SHEET 12 OF 152 SHEETS



COLD PLANE TYPICAL SECTION

VT. ROUTE 4A CASTLETON	STA 216+25.00	TO CASTLETON	STA 219+40.00
VT. ROUTE 4A CASTLETON	STA 224+75.00	TO CASTLETON	STA 302+00.00
VT. ROUTE 4A CASTLETON	STA 302+00.00	TO CASTLETON	STA 302+23.00
VT. ROUTE 4A CASTLETON	STA 303+27.00	TO CASTLETON	STA 364+85.00
VT. ROUTE 4A CASTLETON	STA 366+02.00	TO CASTLETON	STA 366+22.08
VT. ROUTE 4A IRA	STA 0+00.00	TO IRA	STA 68+69.28
VT. ROUTE 4A WEST RUTLAND	STA 0+00.00	TO WEST RUTLAND	STA 94+93.44
CASTLETON STATE HIGHWAY	STA 3+25.00	TO CASTLETON STATE HIGHWAY	STA 3+80.00



COLD PLANE TYPICAL SECTION

VT. ROUTE 4A CASTLETON STA 205+45.00 TO CASTLETON STA 216+25.00
CASTLETON STATE HIGHWAY STA 0+00.00 TO CASTLETON STATE HIGHWAY STA 3+25.00

PROJECT PAVING LIMITS

TOWN & ROUTE	BEGIN STATION	END STATION	WARM-MIX TECHNOLOGIES	LANE TYPICAL	WEARING DEPTH	LEVELING TON	NOTES
CASTLETON:							
VT. ROUTE 4A	203+49.12	203+81.00	FOAMING PROCESS	4'-0" - 12'-0" - 12'-0" - 4'-0"	1½"	3	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	203+81.00	204+50.00	FOAMING PROCESS	4'-0" - 12'-0" - 12'-0" - 4'-0"	1¼"	-	BR 7 COLD PLANE 1¼" & PAVE WITH 1¼" TYPE IVS
VT. ROUTE 4A	204+50.00	205+45.00	FOAMING PROCESS	4'-0" - 12'-0" - 12'-0" - 4'-0"	1½"	12	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	205+45.00	216+25.00	FOAMING PROCESS	VARIES - SEE LAYOUT	1½"	170	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	216+25.00	219+40.00	FOAMING PROCESS	9'-0" - 12'-0" - 12'-0" - 9'-0"	1½"	43	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	219+40.00	224+75.00	-	-	-	-	NO PAVING WORK (BR 8 AND APPROACH AREA)
VT. ROUTE 4A	224+75.00	302+00.00	FOAMING PROCESS	3'-0" - 11'-0" - 11'-0" - 3'-0"	1½"	702	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	302+00.00	302+23.00	FOAMING PROCESS	6'-0" - 11'-0" - 11'-0" - 6'-0"	1½"	3	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	302+23.00	303+27.00	-	-	-	-	NO PAVING WORK (BR 11 AND APPROACH AREA)
VT. ROUTE 4A	303+27.00	306+25.00	FOAMING PROCESS	5'-0" - 12'-0" - 12'-0" - 5'-0"	1½"	31	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	306+25.00	363+50.00	FOAMING PROCESS	3'-0" - 11'-0" - 11'-0" - 3'-0"	1½"	536	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	363+50.00	364+85.00	FOAMING PROCESS	6'-0" - 11'-0" - 11'-0" - 6'-0"	1½"	28	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	364+85.00	366+02.00	-	-	-	-	NO PAVING WORK (BR 12 AND APPROACH AREA)
VT. ROUTE 4A	366+02.00	366+22.08	-	6'-0" - 11'-0" - 11'-0" - 6'-0"	1½"	2	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
IRA:							
VT. ROUTE 4A	0+00.00	6+85.00	-	6'-0" - 11'-0" - 11'-0" - 6'-0"	1½"	74	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	6+85.00	68+69.28	-	3'-0" - 11'-0" - 11'-0" - 3'-0"	1½"	561	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
WEST RUTLAND:							
VT. ROUTE 4A	0+00.00	55+75.00	-	3'-0" - 11'-0" - 11'-0" - 3'-0"	1½"	507	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	55+75.00	66+30.00	-	7'-0" - 11'-0" - 11'-0" - 7'-0"	1½"	122	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	66+30.00	94+93.44	-	3'-0" - 11'-0" - 11'-0" - 3'-0"	1½"	260	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
CASTLETON:							
STATE HIGHWAY	0+00.00	3+25.00	FOAMING PROCESS	VARIES - SEE LAYOUT	1½"	47	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
STATE HIGHWAY	3+25.00	3+80.00	FOAMING PROCESS	5'-0" - 12'-0" - 12'-0" - 5'-0"	1½"	6	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
STATE HIGHWAY	3+80.00	4+75.00	-	-	-	-	NO PAVING WORK (BR 1 AND APPROACH AREA)
STATE HIGHWAY	4+75.00	7+20.00	FOAMING PROCESS	VARIES - SEE LAYOUT	1½"	29	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
STATE HIGHWAY	7+20.00	9+34.00	FOAMING PROCESS	9'-0" - 12'-0" - 12'-0" - 9'-0"	1½"	29	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
STATE HIGHWAY	9+34.00	11+93.00	FOAMING PROCESS	9'-0" - 12'-0" - 12'-0" - 9'-0"	1¼"	-	BR 2 COLD PLANE 1¼" & PAVE WITH 1¼" TYPE IVS
STATE HIGHWAY	11+93.00	12+25.00	FOAMING PROCESS	9'-0" - 12'-0" - 12'-0" - 9'-0"	1½"	3	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
STATE HIGHWAY	12+25.00	15+00.00	FOAMING PROCESS	4'-0" - 12'-0" - 12'-0" - 4'-0"	1½"	29	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
STATE HIGHWAY	15+00.00	21+43.68	FOAMING PROCESS	7'-0" - 12'-0" - 12'-0" - 7'-0"	1½"	79	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS

NOTES

1. THE WEARING COURSE SHALL BE TYPE IVS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT. THE LEVELING COURSE SHALL BE TYPE VS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT. COLD PLANED SURFACES SHALL HAVE A TACK COAT APPLICATION RATE OF 0.08 GAL/SQ. YD. OF CRSI-H OR RSI-H. TACK COAT APPLICATION RATE ON ALL OTHER PAVED SURFACES SHALL BE 0.025 TO 0.040 GAL/SQ. YD. OF CRSI-H OR RSI-H.
2. THE COLD PLANED SURFACE SHALL HAVE SURFACE PREP BEFORE THE LEVELING COURSE IS LAID. SURFACE PREP SHALL CONSIST OF POTHOLE PATCHING AND PATCHING OF ALL LARGE CRACKS THAT ARE AT LEAST 1" IN WIDTH AND PAID FOR UNDER ITEM 900.680 SPECIAL PROVISIONS (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE II).
3. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = +/- ¼" (TOTAL PAVEMENT THICKNESS EXCLUDING LEVELING).
4. COLD PLANING SHALL BE COMPLETED AS NOTED ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.
5. ALL EDGES OF PAVEMENT SHALL BE BACKED UP TO FULL HEIGHT WITH AGGREGATE SHOULDER MATERIAL AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER ITEM 402.12 AGGREGATE SHOULDERS.
6. THE PROPOSED GUARDRAIL SHALL BE INSTALLED IN A LOCATION THAT MAXIMIZES THE DISTANCE FROM THE CENTER OF THE ROAD TO THE FACE OF GUARDRAIL. 3'-7" OF BACKING IS REQUIRED BEHIND THE FACE OF GUARDRAIL WITH 6' POSTS, ITEM 621.20 STEEL BEAM GUARDRAIL, GALVANIZED. IF THIS CANNOT BE OBTAINED, THEN ITEM 621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/ 8 FEET POSTS SHALL BE USED AS DIRECTED BY THE RESIDENT ENGINEER.
7. 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.
8. 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 ITEM 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I OR ITEM 608.15 POWER GRADER RENTAL. MATERIAL REMOVED SHALL BE REPLACED WITH ITEM 301.40 SUBBASE, RAP. EXCAVATED MATERIAL SHALL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM THE PROJECT AS DIRECTED BY THE RESIDENT ENGINEER.
9. THE WEARING COURSE OF ALL OF CONTRACT ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, SHALL UTILIZE THE REQUIREMENTS OF ITEM 900.645, SPECIAL PROVISION (INTELLIGENT COMPACTION EQUIPMENT) AS CONTAINED WITHIN THE CONTRACT DOCUMENTS. ALL OTHER CONTRACT PROVISIONS ASSOCIATED WITH ITEM 490.30 SHALL APPLY IN CONJUNCTION WITH THE REQUIREMENTS OF ITEM 900.645.

SEEDING FORMULA

RATE: DOUBLE IF HYDROSEEDING

% WT.	LBS./A.	NAME	PUR %	GERM %
38	32	CREEPING RED FESCUE	98	90
29	24	SPARTAN HARD FESCUE	95	85
15	12	AZAY SHEEP'S FESCUE	95	87
15	12	ANNUAL RYE GRASS	95	90
3	--	INERTS	--	--
100.0	80			

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

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

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

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

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

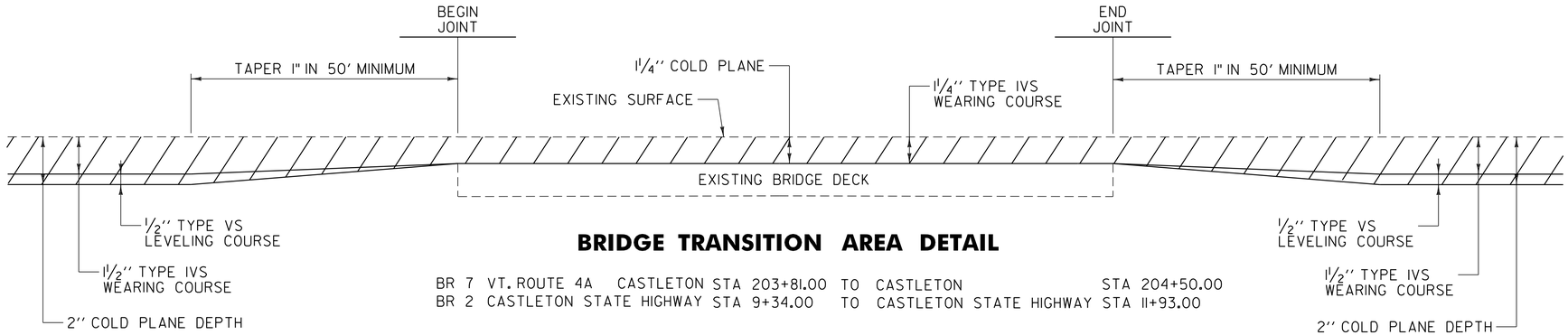
HAY MULCH:
TO BE APPLIED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE RESIDENT ENGINEER.

NOT TO SCALE

PROJECT TYPICAL SHEET

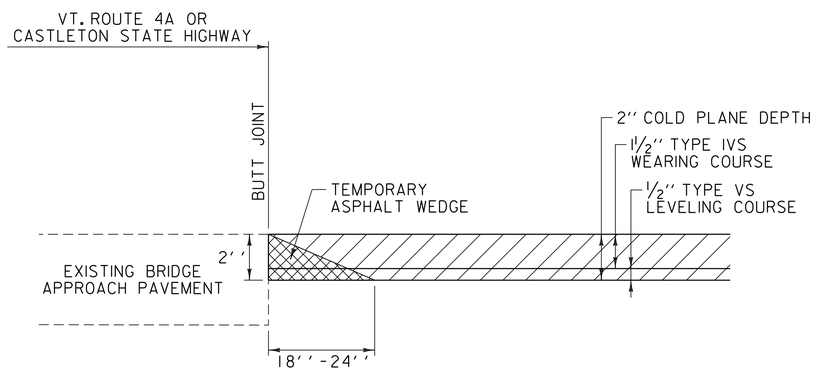
PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168typ.i
PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 13 OF 152



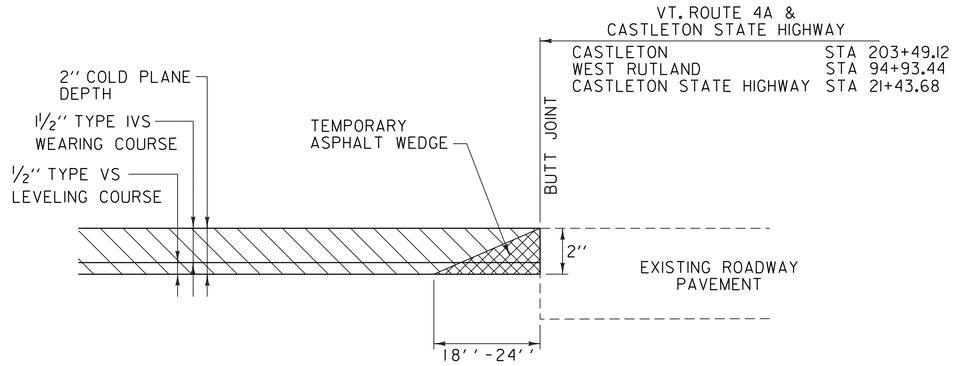
BRIDGE TRANSITION AREA DETAIL

BR 7 VT. ROUTE 4A CASTLETON STA 203+81.00 TO CASTLETON STA 204+50.00
BR 2 CASTLETON STATE HIGHWAY STA 9+34.00 TO CASTLETON STATE HIGHWAY STA 11+93.00



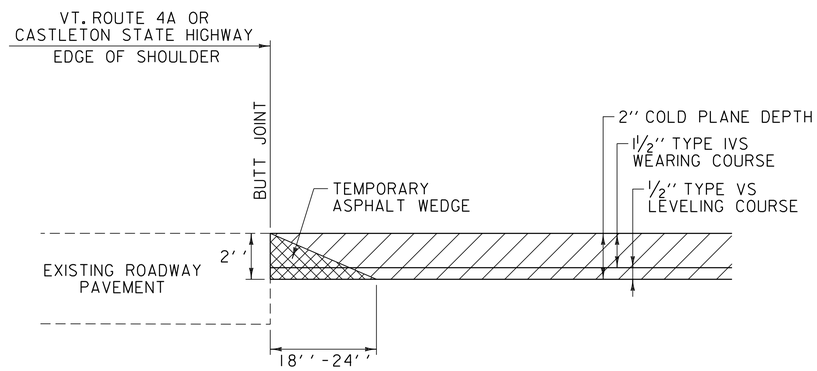
BRIDGE APPROACH AREA DETAIL

CASTLETON:	BR 8	STA 219+40.0
	BR 8	STA 224+75.0
	BR 11	STA 302+23.0
	BR 11	STA 303+27.0
	BR 12	STA 364+85.0
	BR 12	STA 366+02.0
CASTLETON STATE HIGHWAY:	BR 1	STA 3+80.0
	BR 1	STA 4+75.0



COLD PLANE APPROACH AREA DETAIL

VT. ROUTE 4A CASTLETON	STA 203+49.12 - BEGIN PROJECT
VT. ROUTE 4A WEST RUTLAND	STA 94+93.44 - END PROJECT
CASTLETON STATE HIGHWAY	STA 21+43.68 - END PROJECT



COLD PLANE SIDE ROAD DETAIL

CASTLETON:	TH-46	STA 270+91.68	RT
	TH-48	STA 334+22.40	RT
IRA:	TH-48	STA 33+51.84	RT
WEST RUTLAND:	TH-4	STA 64+99.68	LT
CASTLETON STATE HIGHWAY:	RAMP A	STA 6+50.00	LT
	RAMP D	STA 6+50.00	RT
	TH-31	STA 14+41.44	LT
	RAMP B	STA 18+42.79	RT
	RAMP C	STA 18+77.37	RT

NOT TO SCALE

PAVING DETAILS SHEET

PROJECT NAME: CASTLETON - WEST RUTLAND

PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn PLOT DATE: 04-JUN-2013 09:4
PROJECT LEADER: D.E.G. DRAWN BY: W.G.P.
DESIGNED BY: M.J.M. CHECKED BY: D.E.G.
IPARM FILE: p07c168pd.i SHEET 14 OF 152

STATION	POSITION	QUANTITY (SY)	TYPE OF HANDWORK
CASTLETON VT. ROUTE 4A:			
210+47	LT	24	ASPHALT DRIVE
211+45	RT	39	ASPHALT DRIVE
214+13	LT	7	ASPHALT DRIVE
215+32	LT	7	GRAVEL DRIVE
216+62	LT	12	GRAVEL DRIVE
218+75	LT	16	ASPHALT DRIVE
245+05	LT	13	GRAVEL DRIVE
249+36	LT	22	GRAVEL DRIVE
262+15	RT	9	GRAVEL DRIVE
263+08	RT	13	GRAVEL DRIVE
269+12	RT	7	GRAVEL DRIVE
270+39	LT	11	GRAVEL DRIVE
274+27	RT	7	GRAVEL DRIVE
278+94	RT	2	FIELD ACCESS
279+24	LT	7	GRAVEL DRIVE
281+53	RT	7	GRAVEL DRIVE
283+35	LT	22	GRAVEL DRIVE
284+78	LT	70	GRAVEL DRIVE
286+13	LT	50	GRAVEL DRIVE
286+69	RT	7	GRAVEL DRIVE
290+03	LT	18	GRAVEL DRIVE
290+54	RT	2	FIELD ACCESS
291+03	LT	13	GRAVEL DRIVE
293+77	LT	18	GRAVEL DRIVE
296+79	LT	13	GRAVEL DRIVE
297+17	RT	27	GRAVEL DRIVE
300+10	LT	4	ASPHALT DRIVE
307+07	LT	33	GRAVEL DRIVE
311+07	LT	13	GRAVEL DRIVE
313+41	LT	22	GRAVEL DRIVE
314+12	LT	2	FIELD ACCESS
316+55	RT	11	GRAVEL DRIVE
317+87	LT	11	GRAVEL DRIVE
319+04	LT	4	GRAVEL DRIVE
319+79	LT	4	GRAVEL DRIVE
320+33	RT	4	GRAVEL DRIVE
320+64	LT	4	GRAVEL DRIVE
321+38	LT	4	GRAVEL DRIVE
322+62	LT	2	FIELD ACCESS
323+21	RT	4	GRAVEL DRIVE
323+68	RT	4	GRAVEL DRIVE
323+77	LT	4	GRAVEL DRIVE
325+40	RT	4	GRAVEL DRIVE
325+98	RT	11	GRAVEL DRIVE
326+86	LT	4	FIELD ACCESS
326+86	RT	2	GRAVEL DRIVE
328+05	RT	18	GRAVEL DRIVE
329+59	LT	33	GRAVEL DRIVE
329+94	RT	18	GRAVEL DRIVE
331+82	LT	22	GRAVEL DRIVE
336+92	LT	11	GRAVEL DRIVE
339+41	LT	9	ASPHALT DRIVE
340+39	LT	2	FIELD ACCESS
342+48	RT	2	FIELD ACCESS
342+61	LT	11	GRAVEL DRIVE
343+47	LT	11	GRAVEL DRIVE
346+22	LT	11	GRAVEL DRIVE
347+09	RT	7	ASPHALT DRIVE
348+31	LT	4	GRAVEL DRIVE
349+70	LT	2	FIELD ACCESS
350+52	RT	7	ASPHALT DRIVE
350+97	LT	7	GRAVEL DRIVE
353+18	LT	9	GRAVEL DRIVE

STATION	POSITION	QUANTITY (SY)	TYPE OF HANDWORK
CASTLETON VT. ROUTE 4A (CONTINUED):			
354+80	LT	7	GRAVEL DRIVE
354+84	RT	7	GRAVEL DRIVE
356+42	LT	4	GRAVEL DRIVE
361+34	LT	13	GRAVEL DRIVE
362+37	LT	18	ASPHALT DRIVE
364+24	LT	2	FIELD ACCESS
SUBTOTAL:		829	

STATION	POSITION	QUANTITY (SY)	TYPE OF HANDWORK
CASTLETON STATE HIGHWAY:			
1+50	LT	18	ASPHALT DRIVE
SUBTOTAL:		18	

STATION	POSITION	QUANTITY (SY)	TYPE OF HANDWORK
CASTLETON VT. ROUTE 4A FOR RECORD PLANS			
247+50	RT	10	ASPHALT DRIVE
249+87	RT	14	ASPHALT DRIVE
250+00	LT	9	ASPHALT DRIVE
251+85	RT	15	ASPHALT DRIVE
351+65	RT	14	ASPHALT DRIVE
354+34	RT	11	GRAVEL DRIVE

STATION	POSITION	QUANTITY (SY)	TYPE OF HANDWORK
IRA VT. ROUTE 4A:			
9+72	LT	4	GRAVEL DRIVE
9+87	RT	18	1109 BLUE STAR DR (ASPHALT)
11+83	RT	18	GRAVEL DRIVE
20+39	LT	13	GRAVEL DRIVE
20+81	LT	4	GRAVEL DRIVE
21+86	RT	4	GRAVEL DRIVE
22+13	LT	4	GRAVEL DRIVE
23+29	LT	38	GRAVEL DRIVE
23+87	LT	14	ASPHALT DRIVE
25+36	RT	9	GRAVEL DRIVE
25+63	LT	4	GRAVEL DRIVE
29+06	LT	7	GRAVEL DRIVE
30+98	LT	7	GRAVEL DRIVE
33+16	LT	13	GRAVEL DRIVE
34+44	LT	13	GRAVEL DRIVE
38+01	LT	7	GRAVEL DRIVE
39+04	LT	13	GRAVEL DRIVE
41+53	RT	4	GRAVEL DRIVE
44+00	LT	22	ASPHALT DRIVE
45+14	LT	20	GRAVEL DRIVE
45+36	RT	4	ASPHALT DRIVE
49+28	RT	21	GRAVEL DRIVE
53+61	RT	59	GRAVEL DRIVE
54+97	RT	13	ASPHALT DRIVE
55+85	RT	9	ASPHALT DRIVE
57+58	RT	4	ASPHALT DRIVE
59+45	RT	4	ASPHALT DRIVE
60+95	RT	9	GRAVEL DRIVE
61+95	LT	14	GRAVEL DRIVE
62+53	RT	2	FIELD ACCESS
SUBTOTAL:		375	

STATION	POSITION	QUANTITY (SY)	TYPE OF HANDWORK
WEST RUTLAND VT. ROUTE 4A:			
8+79	LT	9	GRAVEL DRIVE
11+66	LT	22	GRAVEL DRIVE
12+99	LT	2	FIELD ACCESS
14+06	LT	16	GRAVEL DRIVE
14+40	RT	22	GRAVEL DRIVE
16+45	RT	4	ASPHALT DRIVE
22+28	RT	2	FIELD ACCESS
26+07	RT	4	GRAVEL DRIVE
27+30	RT	4	GRAVEL DRIVE
27+39	LT	21	GRAVEL DRIVE
28+00	RT	2	FIELD ACCESS
28+39	LT	2	FIELD ACCESS
29+86	LT	22	GRAVEL DRIVE
30+41	RT	117	GRAVEL DRIVE
32+11	RT	2	FIELD ACCESS
32+12	LT	2	FIELD ACCESS
41+72	RT	2	FIELD ACCESS
56+56	RT	2	FIELD ACCESS
60+57	RT	2	FIELD ACCESS
61+05	LT	13	GRAVEL DRIVE
66+95	LT	12	~~GRAVEL DRIVE~~ ASPHALT DRIVE
68+93	RT	4	~~GRAVEL DRIVE~~ ASPHALT DRIVE
70+83	LT	20	~~GRAVEL DRIVE~~ ASPHALT DRIVE
71+43	RT	4	ASPHALT DRIVE
72+13	LT	4	ASPHALT DRIVE
73+36	LT	19	ASPHALT DRIVE
73+68	RT	9	GRAVEL DRIVE
76+00	RT	7	ASPHALT DRIVE
78+43	RT	4	GRAVEL DRIVE
82+62	RT	18	GRAVEL DRIVE
84+08	LT	4	GRAVEL DRIVE
84+91	RT	16	ASPHALT DRIVE
87+18	LT	15	GRAVEL DRIVE
89+26	LT	4	GRAVEL DRIVE
89+88	RT	4	ASPHALT DRIVE
90+66	LT	14	GRAVEL DRIVE
93+72	LT	11	ASPHALT DRIVE
94+14	RT	19	GRAVEL DRIVE
94+62	LT	10	ASPHALT DRIVE
94+95	RT	11	ASPHALT DRIVE
SUBTOTAL:		481	

SUMMARY BY TOWN	
TOWN	QUANTITY (SY)
CASTLETON (4A)	829
CASTLETON ST. HWY.	18
IRA	375
WEST RUTLAND	481
SUBTOTAL:	1703
ROUNDING:	97
TOTAL ITEM 900.675:	1800

NOTE:

1. SEE SHEET 7 FOR DRIVEWAY HANDWORK DETAILS.

DRIVEWAY HANDWORK TABLES SHEET

PROJECT NAME: CASTLETON - WEST RUTLAND

PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168dht.i

PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 15 OF 152

QUANTITY SHEET 1

STATE OF VERMONT
AGENCY OF TRANSPORTATION

SUMMARY OF ESTIMATED QUANTITIES

EMPLOYEE TRAINEESHIP	RAILROAD	BRIDGE	FULL C.E.	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
	80				80	CY	UNCLASSIFIED EXCAVATION	203.17	2.5
	30				30	CY	TRENCH EXCAVATION OF EARTH	204.20	2.6
				1	1	CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	
				116,000	116,000	SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	338
				175	175	TON	SUBBASE, RAP	301.40	EST.
				1300	1300	TON	AGGREGATE SHOULDERS	402.12	EST.
				1	1	LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	
	95			7930	8025	TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	34
				1	1	LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	
				1	1	LU	MAT DENSITY PAY ADJUSTMEMT (N.A.B.I.)	490.32	
				1	1	LU	SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.)	490.33	
				1	1	LU	LONGITUDINAL JOINT COMPACTION PAY ADJUSTMENT (N.A.B.I.)	490.34	
		150			150	LF	REMOVAL OF EXISTING RAILING	525.10	
		150			150	LF	BRIDGE RAILING REPAIR, TYPE II	525.55	
				1	1	EA	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	
				1	1	EA	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II	604.415	
				1	1	EA	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS III	604.418	
				1	1	EA	CHANGING ELEVATION OF SEWER MANHOLES	604.42	
300					300	LF	6 INCH UNDERDRAIN PIPE	605.10	
				175	175	HR	POWER GRADER RENTAL	608.15	EST.
				150	150	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST.
				55	55	HR	POWER BROOM RENTAL, TYPE I	608.30	EST.
				300	300	HR	POWER BROOM RENTAL, TYPE II	608.31	EST.
				225	225	HR	TRUCK RENTAL	608.37	EST.
				160	160	HR	LOADER RENTAL, TYPE I	608.40	EST.
				30	30	CY	STONE FILL, TYPE I	613.10	3
				85	85	EA	YIELDING MARKER POSTS	619.17	EST.
				3950	3950	LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	40
				7800	7800	LF	STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS	621.205	58
				130	130	LF	HD STEEL BEAM GUARDRAIL, GALVANIZED	621.21	
				350	350	LF	HD STEEL BEAM GUARDRAIL, GALVANIZED/NESTED	621.216	12.5
				175	175	LF	HD STEEL BEAM GUARDRAIL, GALVANIZED/NESTED W/8 FEET POST	621.217	
				2	2	EA	TERMINAL CONNECTOR FOR STEEL BEAM GUARDRAIL	621.53	
				59	59	EA	ANCHOR FOR STEEL BEAM RAIL	621.60	
				6	6	EA	GUARDRAIL APPROACH SECTION, GALVANIZED TYPE I	621.70	
				2	2	EA	GUARDRAIL APPROACH SECTION, GALVANIZED TYPE II	621.71	
				30	30	LF	ALUMINUM APPROACH RAILING	621.74	2.8

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		COLD PLANING, BITUMINOUS PAVEMENT
114,072	SY	MAINLINE
1590	SY	SIDEROADS
338	SY	ROUNDING
116,000	SY	TOTAL
		SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
4579	TON	WEARING COURSE (TYPE IVS)
3276	TON	LEVELING COURSE (TYPE VS)
23	TON	SIDE ROADS
18	TON	PULLOUTS
95	TON	GRADE CROSSING BASE COURSE (TYPE IIS)
34	TON	ROUNDING
8025	TON	TOTAL
		AGGREGATE SHOULDERS
1300	TON	SHOULDER BACKUPS
1300	TON	TOTAL

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

QUANTITY SHEET #1

PROJECT NAME: CASTLETON - WEST RUTLAND

PROJECT NUMBER: STP 2705(I)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168qsl.i

PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 16 OF 152

QUANTITY SHEET 2

STATE OF VERMONT
AGENCY OF TRANSPORTATION

SUMMARY OF ESTIMATED QUANTITIES

EMPLOYEE TRAINEESHIP	RAILROAD	BRIDGE	FULL C.E.	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
				12,200	12,200	LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	94.3
				2300	2300	HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.
				3400	3400	HR	FLAGGERS	630.15	EST.
			0.34		0.34	LS	FIELD OFFICE, ENGINEERS	631.10	
			0.34		0.34	LS	TESTING EQUIPMENT, CONCRETE	631.16	
			0.34		0.34	LS	TESTING EQUIPMENT, BITUMINOUS	631.17	
			1000		1000	DL	FIELD OFFICE, TELEPHONE (N.A.B.I.)	631.26	
520					520	HR	EMPLOYEE TRAINEESHIP	634.10	
				0.34	0.34	LS	MOBILIZATION/DEMOBILIZATION	635.11	
				1	1	LS	TRAFFIC CONTROL (STP 2705(I))	641.10	
				0.34	0.34	LS	PUBLIC RELATIONS OFFICER	641.12	
				2	2	EA	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	
							BEGIN OPTION AA		
				57,250	57,250	LF	DURABLE 4 INCH WHITE LINE, THERMOPLASTIC	646.402	280
				57,250	57,250	LF	DURABLE 4 INCH WHITE LINE, EPOXY PAINT	646.403	280
				57,250	57,250	LF	DURABLE 4 INCH WHITE LINE, POLYUREA	646.404	280
							END OPTION AA		
							BEGIN OPTION BB		
				66,150	66,150	LF	DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC	646.412	325
				66,150	66,150	LF	DURABLE 4 INCH YELLOW LINE, EPOXY PAINT	646.413	325
				66,150	66,150	LF	DURABLE 4 INCH YELLOW LINE, POLYUREA	646.414	325
							END OPTION BB		
							BEGIN OPTION CC		
				500	500	LF	DURABLE 6 INCH WHITE LINE, THERMOPLASTIC	646.422	10
				500	500	LF	DURABLE 6 INCH WHITE LINE, EPOXY PAINT	646.423	10
				500	500	LF	DURABLE 6 INCH WHITE LINE, POLYUREA	646.424	10
							END OPTION CC		
							BEGIN OPTION DD		
				400	400	LF	DURABLE 6 INCH YELLOW LINE, THERMOPLASTIC	646.432	30
				400	400	LF	DURABLE 6 INCH YELLOW LINE, EPOXY PAINT	646.433	30
				400	400	LF	DURABLE 6 INCH YELLOW LINE, POLYUREA	646.434	30
							END OPTION DD		
							BEGIN OPTION FF		
				1300	1300	LF	DURABLE 8 INCH YELLOW LINE, THERMOPLASTIC	646.452	47
				1300	1300	LF	DURABLE 8 INCH YELLOW LINE, EPOXY PAINT	646.453	47
				1300	1300	LF	DURABLE 8 INCH YELLOW LINE, POLYUREA	646.454	47
							END OPTION FF		
							BEGIN OPTION GG		
				200	200	LF	DURABLE 12 INCH WHITE LINE, THERMOPLASTIC	646.462	17
				200	200	LF	DURABLE 12 INCH WHITE LINE, EPOXY PAINT	646.463	17
				200	200	LF	DURABLE 12 INCH WHITE LINE, POLYUREA	646.464	17
							END OPTION GG		
							BEGIN OPTION HH		
				180	180	LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482	10
				180	180	LF	DURABLE 24 INCH STOP BAR, EPOXY PAINT	646.483	10
				180	180	LF	DURABLE 24 INCH STOP BAR, POLYUREA	646.484	10
							END OPTION HH		
							BEGIN OPTION II		
				38	38	EA	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	
				38	38	EA	DURABLE LETTER OR SYMBOL, EPOXY PAINT	646.493	
							END OPTION II		
				2	2	EA	DURABLE RAILROAD CROSSING SYMBOL, TYPE I TAPE	646.511	
							BEGIN OPTION KK		
				2	2	EA	DURABLE RAILROAD CROSSING SYMBOL, THERMOPLASTIC	646.512	
				2	2	EA	DURABLE RAILROAD CROSSING SYMBOL, EPOXY PAINT	646.513	
							END OPTION KK		

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

QUANTITY SHEET #2

PROJECT NAME: CASTLETON - WEST RUTLAND

PROJECT NUMBER: STP 2705(I)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168qs2.i

PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 17 OF 152

QUANTITY SHEET 3

STATE OF VERMONT
AGENCY OF TRANSPORTATION

SUMMARY OF ESTIMATED QUANTITIES

EMPLOYEE TRAINEESHIP	RAILROAD	BRIDGE	FULL C.E.	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
				114,500	114,500	LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.602	EST.
				132,300	132,300	LF	TEMPORARY 4 INCH YELLOW LINE, PAINT	646.612	EST.
				1000	1000	LF	TEMPORARY 6 INCH WHITE LINE, PAINT	646.622	EST.
				800	800	LF	TEMPORARY 6 INCH YELLOW LINE, PAINT	646.632	EST.
				360	360	LF	TEMPORARY 24 INCH STOP BAR, PAINT	646.682	EST.
				68	68	EA	TEMPORARY LETTER OR SYMBOL, PAINT	646.692	EST.
				4	4	EA	TEMPORARY RAILROAD CROSSING SYMBOL, PAINT	646.712	EST.
				5300	5300	EA	LINE STRIPING TARGETS	646.76	EST.
				275	275	LF	PAINTED CURB	646.81	9
	85				85	SY	GEOTEXTILE UNDER RAILROAD BALLAST	649.21	3.5
				50	50	SY	GEOTEXTILE UNDER STONE FILL	649.31	EST.
				140	140	LB	SEED	651.15	4
				400	400	LB	FERTILIZER	651.18	EST.
				1	1	TON	AGRICULTURAL LIMESTONE	651.20	EST.
				1	1	TON	HAY MULCH	651.25	EST.
				50	50	CY	TOPSOIL	651.35	EST.
				5400	5400	SY	TEMPORARY EROSION MATTING	653.20	41
				617	617	SF	TRAFFIC SIGNS, TYPE A	675.20	0.39
				2150	2150	LF	SQUARE TUBE SIGN POSTS AND ANCHOR	675.341	36
				161	161	EA	REMOVING SIGNS	675.50	
				5	5	EA	ERECTING SALVAGED SIGNS	675.60	
				57	57	EA	DELINEATOR WITH STEEL POST	676.10	
				1	1	LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	
	157				157	EA	SPECIAL PROVISION (REMOVAL AND REPLACEMENT OF CROSS TIES)	900.620	
	4				4	EA	SPECIAL PROVISION (THERMITE WELDING)	900.620	
	360				360	LF	SPECIAL PROVISION (CONTINUOUS WELDED RAIL)	900.640	
	400				400	LF	SPECIAL PROVISION (RESURFACE TRACK APPROACHES)	900.640	
	100				100	LF	SPECIAL PROVISION (RUBBER RAIL SEAL)	900.640	
			0.34		0.34	LS	SPECIAL PROVISION (INTELLIGENT COMPACTION EQUIPMENT)	900.645	
	1				1	LS	SPECIAL PROVISION (RAIL - HIGHWAY CROSSING ACTIVE WARNING SYSTEM) (AARDOT 248-907C)	900.645	
	1				1	LU	SPECIAL PROVISION (MAINTENANCE OF RAILROAD TRAFFIC) (N.A.B.I.)	900.650	
				1800	1800	SY	SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)	900.675	97
				26	26	TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE II)	900.680	EST.
	150				150	TON	SPECIAL PROVISION (RAILROAD BALLAST)	900.680	2.2
				5575	5575	TON	SPECIAL PROVISION (WARM-MIX ASPHALT, FOAMING PROCESS)	900.680	32
				485	485	CWT	SPECIAL PROVISION (EMULSIFIED ASPHALT) (RS-1H OR CRS-1H)	900.683	6

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		SEED
86	TON	DITCH CLEANING
50	TON	REST OF PROJECT
4	TON	ROUNDING
140	TON	TOTAL
		SPECIAL PROVISION (WARM-MIX ASPHALT, FOAMING PROCESS)
5377	TON	WEARING COURSE (TYPE IVS)
159	TON	SIDE ROADS
7	TON	PULLOUTS
32	TON	ROUNDING
5575	TON	TOTAL

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

QUANTITY SHEET #3

PROJECT NAME: CASTLETON - WEST RUTLAND

PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68qs3.i

PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 18 OF 152

ITEM DETAIL SUMMARY SHEET

LOCATION			GUARDRAIL (GALVANIZED)										MISCELLANEOUS						REMARKS
			621.20	621.205	621.21	621.216	621.217	621.53	621.60	621.70	621.71	621.74	621.80	604.412	604.415	604.418	613.10	651.15	676.10	
BEGIN STATION	END STATION	POS.	S.B. GR GAL.	S.B. GR, GALV. W/ 8' POSTS	HD S.B. GR GAL.	HD S.B. GR, GALV. NESTED	HD S.B. GR, GALV. NESTED W/8 FT POST	TERM CONNECT FOR S.B. GR	ANCHOR FOR S.B. RAIL	GR APPROACH SECTION, GALV. TYPE I	GR APPROACH SECTION, GALV. TYPE II	ALUMINUM APPROACH RAILING	REMOVAL & DISPOSAL OF GUARDRAIL	REHABING DI'S, CB'S OR MH'S			STONE FILL, TYPE I	SEED	DELINEATOR WITH STEEL POST	
			LF	LF	LF	LF	LF	EA	EA	EA	EA	LF	LF	EA	EA	EA	CY	LB	EA	
CASTLETON:																				
203+49.1	366+22.1	LT/RT															12	25		SHALL BE PERFORMED AS DIRECTED BY THE RESIDENT ENGINEER.
204+48.0	205+27.0	LT	52.0		32.5			1	1				70.0						1	SEE VAOT STANDARD SHEET G-ID. CONNECT NEW HD STEEL BEAM GUARDRAIL TO EXISTING BRIDGE RAIL AT STA 204+50.0. PROVIDE ANCHOR AT STA 205+20.5. SEE SHEET 82 FOR BR 7 DETAILS.
204+48.0	205+27.0	RT	52.0		32.5			1	1				75.0						1	SEE VAOT STANDARD SHEET G-ID. CONNECT NEW HD STEEL BEAM GUARDRAIL TO EXISTING BRIDGE RAIL AT STA 204+50.0. PROVIDE ANCHOR AT STA 205+20.5. SEE SHEET 82 FOR BR 7 DETAILS.
223+08.0	360+65.0	LT/RT																41		SEE SHEET 21 FOR DITCH CLEANING DETAILS SHEET.
224+72.0	241+99.0	LT		1727.0					1				1718.0						1	CONNECT PROPOSED RAIL TO EXISTING RAIL AT STA 224+72.0. SEE VAOT STANDARD SHEET G-ID. PROVIDE ANCHOR AT STA 241+92.5.
251+31.5	262+10.5	LT		1079.0					2				1068.0						2	SEE VAOT STANDARD SHEET G-ID. PROVIDE ANCHORS AT STA 251+38.0 AND STA 262+04.0.
258+42.0		RT															2			FOR THE REPAIR OF THE EXISTING SLOPE AS DIRECTED BY THE RESIDENT ENGINEER.
263+45.3	264+86.8	RT	54.0			87.5			2				124.0						2	SEE VAOT STANDARD SHEET G-ID. PROVIDE ANCHORS AT STA 263+51.8 AND STA 264+80.3. SEE SHEET 9 FOR DOUBLE NESTED GUARDRAIL SYSTEM.
263+57.8	265+11.8	LT	66.5			87.5			2				137.0						2	SEE VAOT STANDARD SHEET G-ID. PROVIDE ANCHORS AT STA 263+64.3 AND STA 265+05.3. SEE SHEET 9 FOR DOUBLE NESTED GUARDRAIL SYSTEM.
269+07.0	270+23.5	LT	91.5			25.0			2				97.0						2	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHORS AT STA 269+13.5 AND STA 270+17.0. SEE SHEET 10 FOR STEEL BEAM GUARDRAIL AT SMALL CULVERT DETAIL.
269+32.0	270+48.5	RT	91.5			25.0			2				110.0						2	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHORS AT STA 269+38.5 AND STA 270+42.0. SEE SHEET 10 FOR STEEL BEAM GUARDRAIL AT SMALL CULVERT DETAIL.
300+95.5	302+35.0	LT	89.5						1	1			138.0						1	SEE VAOT STANDARD SHEET G-ID. PROVIDE ANCHOR AT STA 301+02.0. BEGIN APPROACH SECTION, TYPE I AT STA 301+85.0 AND CONNECT TO EXISTING BRIDGE RAIL AT STA 302+35.0. SEE SHEETS 79 & 80 FOR GUARDRAIL APPROACH SECTION DETAILS. SEE SHEET 83 FOR BR II DETAILS.
301+03.0	302+55.0	RT	102.0						1	1			152.0						1	SEE VAOT STANDARD SHEET G-ID. PROVIDE ANCHOR AT STA 301+09.5. BEGIN APPROACH SECTION, TYPE I AT STA 302+05.0 AND CONNECT TO EXISTING BRIDGE REAIL AT STA 302+55.0. SEE SHEETS 79 & 80 FOR GUARDRAIL APPROACH SECTION DETAILS. SEE SHEET 83 FOR BR II DETAILS.
302+93.0	303+20.0	LT	14.5						1		1		21.0						1	CONNECT APPROACH SECTION, TYPE II TO EXISTING BRIDGE RAIL AT STA 302+93.0 AND END AT STA 303+05.5. SEE SHEETS 79 & 80 FOR GUARDRAIL APPROACH SECTION DETAILS. SEE SHEET 83 FOR BR II DETAILS. PROVIDE ANCHOR AT STA 303+13.5. SEE VAOT STANDARD SHEET G-ID.
303+16.0	304+55.5	RT	89.5						1	1			129.0						1	CONNECT APPROACH SECTION, TYPE I TO EXISTING BRIDGE RAIL AT STA 303+16.0 AND END AT STA 303+66.0. SEE SHEETS 79 & 80 FOR GUARDRAIL APPROACH SECTION DETAILS. SEE SHEET 83 FOR BR II DETAILS. PROVIDE ANCHOR AT STA 304+49.0. SEE VAOT STANDARD SHEET G-ID.
363+85.0	365+12.0	RT	77.0						1	1			120.0						1	SEE VAOT STANDARD SHEET G-ID. PROVIDE ANCHOR AT STA 363+91.5. BEGIN APPROACH SECTION, TYPE I AT STA 364+62.0 AND CONNECT TO EXISTING BRIDGE RAIL AT STA 365+12.0. SEE SHEETS 79 & 80 FOR GUARDRAIL APPROACH SECTION DETAILS. SEE SHEET 84 FOR BR 12 DETAILS.
365+18.5	365+31.0	LT	16.0						~~2~~ 1 ONE ELIMINATED PER TP		1		41.0						1	INSTALL NEW 16' RADIUS PANEL. SEE VAOT STANDARD SHEET G-ID. PROVIDE ANCHORS AT STA 365+18.5 & STA 365+18.5. BEGIN APPROACH SECTION, TYPE II AT STA 365+18.5 AND CONNECT TO EXISTING BRIDGE RAIL AT STA 365+31.0. SEE SHEETS 79 & 80 FOR GUARDRAIL APPROACH SECTION DETAILS. SEE SHEET 84 FOR BR 12 DETAILS.
365+59.0	366+22.08	RT	13.08							1			63.08						1	CONNECT APPROACH SECTION, TYPE I TO EXISTING BRIDGE RAIL AT STA 365+59.0 AND END AT STA 366+09.0. SEE SHEETS 79 & 80 FOR GUARDRAIL APPROACH SECTION DETAILS. SEE SHEET 84 FOR BR 12 DETAILS.
365+78.0	366+22.08	LT								1			44.08						1	CONNECT APPROACH SECTION, TYPE I TO EXISTING BRIDGE RAIL AT STA 365+78.0 AND END AT TOWN OF IRA STA 0+05.92. SEE SHEETS 79 & 80 FOR GUARDRAIL APPROACH SECTION DETAILS. SEE SHEET 84 FOR BR 12 DETAILS.
IRA:																				
0+00.0	94+93.44	LT/RT															5	10		SHALL BE PERFORMED AS DIRECTED BY THE RESIDENT ENGINEER.
0+00.0	0+13.92	RT	13.92						1				3.92						1	PROVIDE ANCHOR AT STA 0+7.42. SEE VAOT STANDARD SHEET G-ID.
0+05.92	0+32.92	LT	27.0						1				23.92						1	CONNECT APPROACH SECTION, TYPE I TO EXISTING BRIDGE RAIL AT TOWN OF CASTLETON STA 365+78.0 AND END AT STA 0+05.92. PROVIDE ANCHOR AT STA 0+26.42. SEE VAOT STANDARD SHEET G-ID FOR DETAILS.
10+09.4	10+50.9	LT	41.5						2										2	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHORS AT STA 10+15.9 AND STA 10+44.4.
12+65.0	68+69.0	RT																9		SEE SHEET 21 FOR DITCH CLEANING DETAIL SHEET.
18+91.4	19+32.9	LT	41.5						2										2	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHORS AT STA 18+97.9 AND STA 19+26.4
SHEET SUBTOTALS:			933.0	2806.0	65.0	225.0	-	2	~~26~~ 25	6	2	-	4135.0	-	-	-	19	85	25	

ITEM DETAIL SUMMARY SHEET #1

PROJECT NAME: CASTLETON - WEST RUTLAND

PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168idsl.i

PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 19 OF 152

ITEM DETAIL SUMMARY SHEET

LOCATION			GUARDRAIL (GALVANIZED)											MISCELLANEOUS						REMARKS
			621.20	621.205	621.21	621.216	621.217	621.53	621.60	621.70	621.71	621.74	621.80	604.412	604.415	604.418	613.10	651.15	676.10	
BEGIN STATION	END STATION	POS.	S.B. GR GAL.	S.B. GR, GALV. W/ 8' POSTS	HD S.B. GR GAL.	HD S.B. GR, GALV. NESTED	HD S.B. GR, GALV. NESTED W/8 FT POST	TERM CONNECT FOR S.B. GR	ANCHOR FOR S.B. RAIL	GR APPROACH SECTION, GALV. TYPE I	GR APPROACH SECTION, GALV. TYPE II	ALUMINUM APPROACH RAILING	REMOVAL & DISPOSAL OF GUARDRAIL	REHABING DI'S, CB'S OR MH'S			STONE FILL, TYPE I	SEED	DELINEATOR WITH STEEL POST	
			LF	LF	LF	LF	LF	EA	EA	EA	EA	LF	LF	EA	EA	EA	CY	LB	EA	
IRA:																				
47+05.8	61+84.8	LT		1411.5			87.5		2				1431.0						2	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHORS AT STA 47+12.3 AND STA 61+78.3. SEE SHEET 10 FOR STEEL BEAM GUARDRAIL POST SPACING FOR UTILITY POLE WITHIN 4'-0" OF GUARDRAIL DETAIL. SEE SHEET 9 FOR DOUBLE NESTED GUARDRAIL SYSTEM.
49+68.3	51+47.3	RT	91.5				87.5		2				165.0						2	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHORS AT STA 49+74.8 AND STA 51+40.8. SEE SHEET 9 FOR DOUBLE NESTED GUARDRAIL SYSTEM.
62+11.0	68+69.28	LT		658.28					1				658.28						1	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHOR AT STA 62+17.5.
WEST RUTLAND:																				
0+00.0	0+45.72	LT		45.72					1				34.72						1	PROVIDE ANCHOR AT STA 0+39.22. SEE VAOT STANDARD SHEET G-ID FOR DETAILS.
0+00.0	89+00.0	LT/RT																36		SEE SHEET 21 FOR DITCH CLEANING DETAIL SHEET.
0+00.0	94+93.44	LT/RT															8	15		SHALL BE PERFORMED AS DIRECTED BY THE RESIDENT ENGINEER.
28+47.7	29+01.7	RT	54.0						2				38.0						2	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHORS AT STA 28+54.2 AND STA 28+95.2.
28+47.7	28+89.2	LT	41.5						2				37.0						2	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHORS AT STA 28+54.2 AND STA 28+82.7.
30+07.5	31+99.0	LT	~~206.3~~ CABLE RAIL WAS RETAINED AND REPAIRED						~~2~~ - EXISTING ANCHORS RETAINED				~~163.0~~ NO REMOVAL						2	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHORS AT STA 30+14.0 AND AT STA 31+92.5.
32+23.0	39+77.0	LT		754.0					~~2~~ 3				748.0						2	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHORS AT STA 32+29.5 AND AT STA 39+70.5. AND 32+28 LT
39+98.0	60+64.5	LT		2066.5					2				2057.0						2	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHORS AT STA 40+04.5 AND AT STA 60+58.0.
61+06.8	67+10.8	RT	516.5			87.5			2				556.0						2	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHORS AT STA 66+13.3 AND AT STA 67+04.3. SEE SHEET 9 FOR DOUBLE NESTED GUARDRAIL SYSTEM.
61+49.0	64+41.0	LT	304.0						2				300.0						2	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHORS AT STA 61+55.5 AND AT STA 64+34.5.
66+00.5	66+79.5	LT	54.0			25.0			2				73.0						2	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHORS AT STA 66+07.0 AND AT STA 66+73.0. SEE SHEET 10 FOR STEEL BEAM GUARDRAIL AT SMALL CULVERT DETAIL.
67+09.0	67+50.5	LT	41.5						2				39.0						2	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHORS AT STA 67+15.5 AND AT 67+44.0.
CASTLETON STATE HIGHWAY:																				
0+00.0	21+43.68	LT/RT												1	1	1				SHALL BE PERFORMED AS DIRECTED BY THE RESIDENT ENGINEER.
3+65.0	3+79.5	LT	14.5						1				17.5						1	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHOR AT STA 3+71.5. CONNECT PROPOSED RAIL TO EXISTING RAIL AT STA 3+79.5. SEE SHEET 85 FOR BR 1DETAILS.
3+73.0	3+84.5	RT	28.5						~~2~~ 1	ELIMINATED PER TP			11.5						1	INSTALL NEW 16' RADIUS PANEL. SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHORS AT STA 3+73.0 AND 3+73.0. CONNECT PROPOSED RAIL TO EXISTING RAIL AT STA 3+84.5. SEE SHEET 85 FOR BR 1DETAILS.
4+54.5	6+06.5	LT	127.0		32.5				1				150.0						1	SEE SHEET 85 FOR BR 1DETAILS. CONNECT PROPOSED HD RAIL TO EXISTING RAIL AT STA 4+54.5. SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHOR AT STA 6+00.0.
4+59.5	5+99.0	RT	114.5		32.5				1				135.0						1	SEE SHEET 85 FOR BR 1DETAILS. CONNECT PROPOSED HD RAIL TO EXISTING RAIL AT STA 4+59.5. SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHOR AT STA 5+92.5.
6+93.0	8+95.0	LT	202.0						+2				198.0						1	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHOR AT STA 6+99.5. CONNECT PROPOSED RAIL TO EXISTING APPROACH RAIL AT STA 8+95.0. SEE SHEET 86 FOR BR 2 DETAILS.
7+03.0	9+05	RT	202.0	ANCHORS ADDED AT ALUMINUM APPROACH RAILING AS DETAILED ON SHEET 76 OF 152					+2				201.0						1	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHOR AT STA 7+09.5. CONNECT PROPOSED RAIL TO EXISTING APPROACH RAIL AT STA 9+05.0. SEE SHEET 86 FOR BR 2 DETAILS.
11+89.8	14+17.0	LT	237.5						1			27.2	227.2							SEE SHEET 86 FOR BR 2 DETAILS. INSTALL NEW ALUMINUM APPROACH RAILING FROM STA 11+89.8 TO STA 12+17.0 AND CONNECT TO PROPOSED RAIL. CONNECT PROPOSED RAIL TO EXISTING RAIL ON FRISBIE HILL ROAD.
12+38.0	17+52.5	RT	514.5						+2				505.0						1	SEE SHEET 86 FOR BR 2 DETAILS. CONNECT PROPOSED RAIL TO EXISTING APPROACH RAILING AT STA 12+38.0. PROVIDE ANCHOR AT STA 17+46.0. SEE VAOT STANDARD SHEET G-ID FOR DETAILS.
14+70.0	16+59.5	LT	227.0						1				225.5						1	CONNECT PROPOSED RAIL TO EXISTING RAIL ON FRISBIE HILL ROAD. PROVIDE ANCHOR AT STA 16+53.0. SEE VAOT STANDARD SHEET G-ID FOR DETAILS.
SHEET SUBTOTALS			2977.0	4936.0	65.0	112.5	175.0	-	~~33~~ 35	-	-	27.2	7970.7	1	1	1	8	51	32	
SHEET 19 SUBTOTALS			933.0	2806.0	65.0	225.0	-	2	~~26~~ 25	6	2	-	4135.0	-	-	-	19	85	25	
ROUNDING			40.0	58.0	-	12.5	-	-	-	-	-	2.8	94.3	-	-	-	3	4	-	
TOTALS			3950	7800	130	350	175	2	~~59~~ 60	6	2	30	~~12,200~~ 12,037	1	1	1	30	140	57	

ITEM DETAIL SUMMARY SHEET #2

PROJECT NAME: CASTLETON - WEST RUTLAND

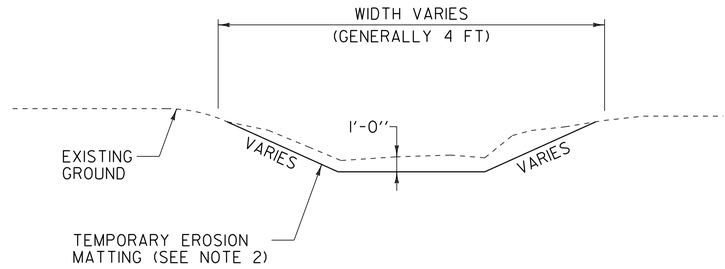
PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168ids2.i

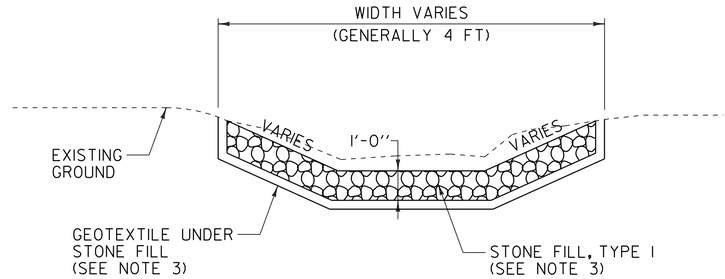
PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 20 OF 152

LOCATION				FEET OF DITCHING				MISC. ITEMS				REMARKS
				PERCENT GRADE				613.10	649.31	651.15	653.20	
SITE	STATION	STATION	POS.	0-1	1-2.5	2.5-10	>10	STONE FILL, TYPE I	GEOT. UNDER STONE FILL	SEED	TEMP. EROS. MATT.	
VT. ROUTE 4A								CY	SY	LB	SY	
CASTLETON:												
1	223+08	246+55	RT		2347			39.44	94.67	17	1043	(AOBE)
2	251+85	261+35	RT		950					7	422	
3	264+22	269+95	LT		573					4	255	
4	287+75	295+95	RT		820					6	365	
5	324+72	328+68	LT		396					3	176	
6	355+35	360+65	LT		530					4	236	
IRA:												
7	12+65	19+00	RT		635					5	282	
8	63+10	68+69	RT		559					4	249	
WEST RUTLAND:												
9	0+00	11+35	~~LT~~	RT	1135					2	505	
10	16+10	21+12	~~LT~~	RT	502					8	223	
11	31+68	55+44	~~LT~~	RT	2376					17	1056	
12	67+90	71+84	RT		394					3	175	
13	79+49	82+40	RT		291					2	129	
14	82+80	84+75	RT		195					1	87	
15	88+50	89+00	RT		350					3	156	
ROUNDINGS					47					-	41	
TOTALS					12,100					86	5400	

LOCATION				FEET OF DITCHING				MISC. ITEMS				REMARKS
				PERCENT GRADE				613.10	649.31	651.15	653.20	
SITE	STATION	STATION	POS.	0-1	1-2.5	2.5-10	>10	STONE FILL, TYPE I	GEOT. UNDER STONE FILL	SEED	TEMP. EROS. MATT.	
VT. ROUTE 4A								CY	SY	LB	SY	
WEST RUTLAND												
	41+70	52+00	RT					293.7				
	22+00	24+26	RT					76.67				
	16+75	21+71	RT					156.94				



DITCH DETAIL



STONE DITCH DETAIL

NOTES:

1. PIPE INLET AND OUTLET AREAS AND DITCH CLEANING THROUGHOUT THE PROJECT SHALL BE PERFORMED AT LOCATIONS IDENTIFIED ON THIS SHEET AND AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT WILL BE UNDER THE APPLICABLE EQUIPMENT RENTAL ITEM(S).

2. ESTIMATED QUANTITIES OF TEMPORARY EROSION MATTING AND SEED HAVE BEEN INCLUDED AS NEEDED OR AS DIRECTED BY THE RESIDENT ENGINEER.

3. ESTIMATED QUANTITIES OF STONE FILL TYPE I AND GEOTEXTILE UNDER STONE FILL HAVE BEEN INCLUDED AS NEEDED. STONE FILL TYPE I SHALL BE USED IN ALL DITCHES WITH A GRADE BETWEEN 2.5 AND 10 PERCENT OR AS DIRECTED BY THE RESIDENT ENGINEER.

4. GRADES LESS THAN 1 PERCENT SHALL USE ITEM 651.15, SEED AND ITEM 651.25, HAY MULCH. GRADES BETWEEN 1 AND 2.5 PERCENT SHALL USE ITEM 651.25, HAY MULCH OR ITEM 653.20, TEMPORARY EROSION MATTING AS DIRECTED BY THE RESIDENT ENGINEER. GRADES OVER 2.5 PERCENT SHALL USE ITEM 649.31, GEOTEXTILE UNDER STONE FILL AND ITEM 613.10, STONE FILL TYPE I AS DIRECTED BY THE RESIDENT ENGINEER.

NOT TO SCALE

DITCH CLEANING DETAILS SHEET

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168cdc.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 21 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 203+49.12 - STA 209+25.00 EDGE LINE LT & RT
STA 208+20.00 - STA 209+25.00 DOTTED LANE LINE RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT ℄	RT
STA 203+49.12 - STA 205+45.00	S	S
STA 205+45.00 - STA 209+25.00 DOUBLE SOLID MEDIAN LT & RT		

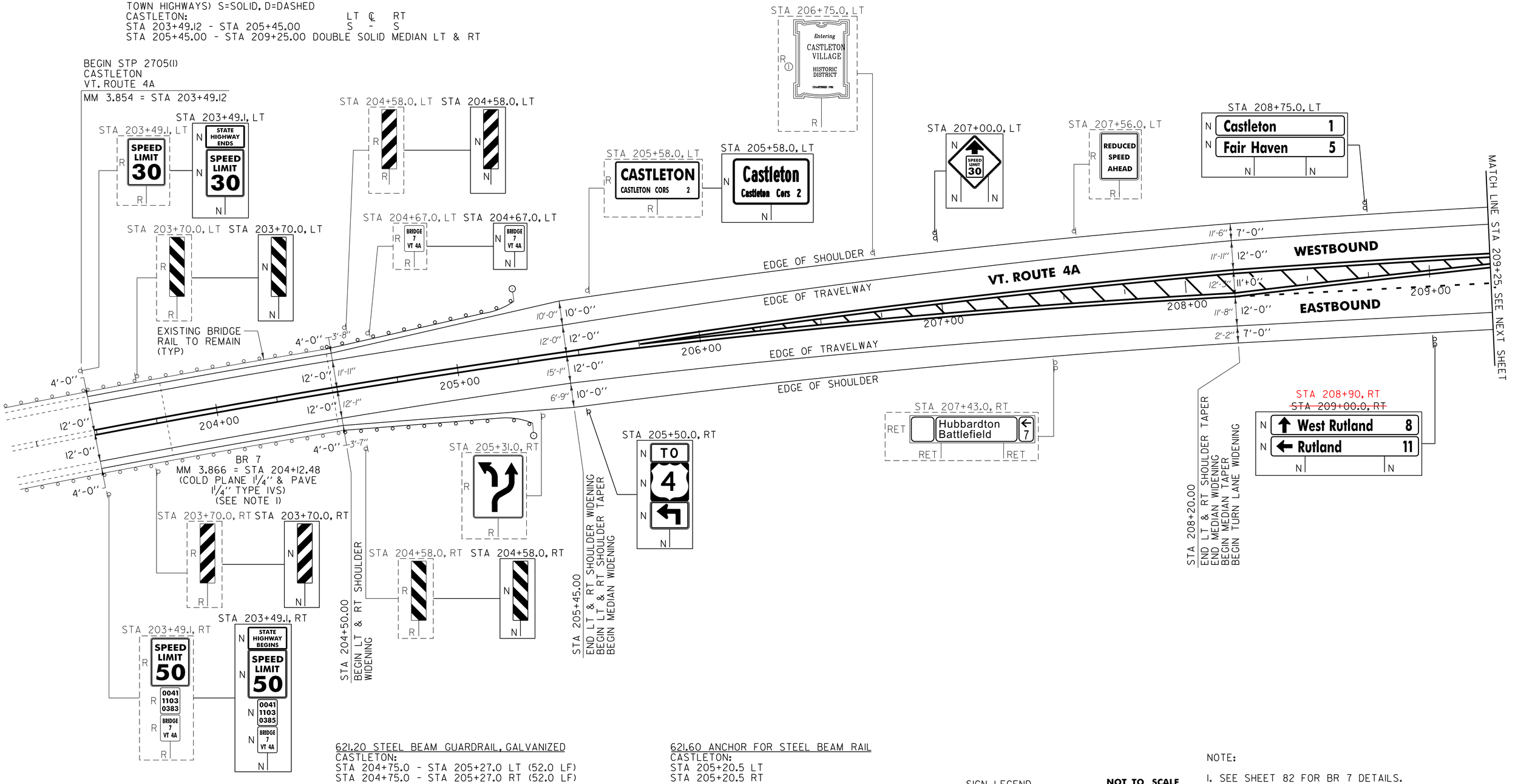
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 203+49.12 - STA 209+25.00 EDGE LINE LT & RT
STA 208+20.00 - STA 209+25.00 DOTTED LANE LINE RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT ℄	RT
STA 203+49.12 - STA 205+45.00	S	S
STA 205+45.00 - STA 209+25.00 DOUBLE SOLID MEDIAN LT & RT		

646.452 DURABLE 8 INCH YELLOW LINE, THERMOPLASTIC OR
646.453 DURABLE 8 INCH WYELLOW LINE, EPOXY PAINT OR
646.454 DURABLE 8 INCH YELLOW LINE, POLYUREA
CASTLETON:
STA 205+45.00 - STA 209+25.00 MEDIAN HATCHING LT & RT

675.50 REMOVING SIGNS
AS SHOWN - 13



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
CASTLETON:
STA 204+75.0 - STA 205+27.0 LT (52.0 LF)
STA 204+75.0 - STA 205+27.0 RT (52.0 LF)

621.21HD STEEL BEAM GUARDRAIL, GALVANIZED
CASTLETON:
STA 204+50.0 - STA 204+75.0 LT (32.5 LF)
STA 204+50.0 - STA 204+75.0 RT (32.5 LF)

621.53 TERMINAL CONNECTOR FOR STEEL BEAM GUARDRAIL
CASTLETON:
STA 204+48.0 - STA 204+50.0 LT
STA 204+48.0 - STA 204+50.0 RT

621.60 ANCHOR FOR STEEL BEAM RAIL
CASTLETON:
STA 205+20.5 LT
STA 205+20.5 RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
CASTLETON:
STA 204+49.0 - STA 205+19.0 LT (70.0 LF)
STA 204+49.0 - STA 205+24.0 RT (75.0 LF)

676.10 DELINEATOR WITH STEEL POST
CASTLETON:
STA 205+27.0 LT
STA 205+27.0 RT

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ———
R = RETURN TO TOWN OF CASTLETON ①

NOTE:
1. SEE SHEET 82 FOR BR 7 DETAILS.

NOT TO SCALE

PROJECT LAYOUT SHEET #1

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)
FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl6810I.i
PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 22 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 209+25.00 - STA 215+25.00 EDGE LINE LT & RT
STA 209+25.00 - STA 210+00.00 DOTTED LANE LINE RT
STA 210+00.00 - STA 211+50.00 SOLID LANE LINE RT

CASTLETON STATE HIGHWAY:
STA 0+30.00 - STA 2+00.00 EDGE LINE LT & RT
STA 0+30.00 - STA 1+25.00 SOLID LANE LINE LT
STA 1+25.00 - STA 2+00.00 DOTTED LANE LINE LT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON: LT ℄ RT
STA 210+00.00 - STA 211+50.00 S - S
STA 209+25.00 - STA 210+00.00 DOUBLE SOLID MEDIAN LT
STA 212+00.00 - STA 215+25.00 DOUBLE SOLID MEDIAN LT & RT

CASTLETON STATE HIGHWAY:
STA 0+30.00 - STA 1+10.00 MEDIAN EDGE LINE LT & RT
STA 1+10.00 - STA 2+00.00 DOUBLE SOLID MEDIAN LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 209+25.00 - STA 215+25.00 EDGE LINE LT & RT
STA 209+25.00 - STA 210+00.00 DOTTED LANE LINE RT
STA 210+00.00 - STA 211+50.00 SOLID LANE LINE RT

CASTLETON STATE HIGHWAY:
STA 0+30.00 - STA 2+00.00 EDGE LINE LT & RT
STA 0+30.00 - STA 1+25.00 SOLID LANE LINE LT
STA 1+25.00 - STA 2+00.00 DOTTED LANE LINE LT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON: LT ℄ RT
STA 210+00.00 - STA 211+50.00 S - S
STA 209+25.00 - STA 210+00.00 DOUBLE SOLID MEDIAN LT
STA 212+00.00 - STA 215+25.00 DOUBLE SOLID MEDIAN LT & RT

CASTLETON STATE HIGHWAY:
STA 0+30.00 - STA 1+10.00 MEDIAN EDGE LINE LT & RT
STA 1+10.00 - STA 2+00.00 DOUBLE SOLID MEDIAN LT & RT

646.81 PAINTED CURB
CASTLETON STATE HIGHWAY:
STA 0+27.00 - STA 1+00.00 LT/RT (146.0 LF)

646.452 DURABLE 8 INCH YELLOW LINE, THERMOPLASTIC OR
646.453 DURABLE 8 INCH YELLOW LINE, EPOXY PAINT OR
646.454 DURABLE 8 INCH YELLOW LINE, POLYUREA
CASTLETON:
STA 209+25.00 - STA 210+00.00 MEDIAN HATCHING
STA 212+00.00 - STA 215+25.00 MEDIAN HATCHING

CASTLETON STATE HIGHWAY:
STA 1+10.00 - STA 2+00.00 MEDIAN HATCHING

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC OR
646.483 DURABLE 24 INCH STOP BAR, EPOXY PAINT OR
646.484 DURABLE 24 INCH STOP BAR, POLYUREA
CASTLETON STATE HIGHWAY:
STA 0+30.00 LT

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
CASTLETON STATE HIGHWAY:
STA 0+30.00 LT

675.50 REMOVING SIGNS
AS SHOWN - 17

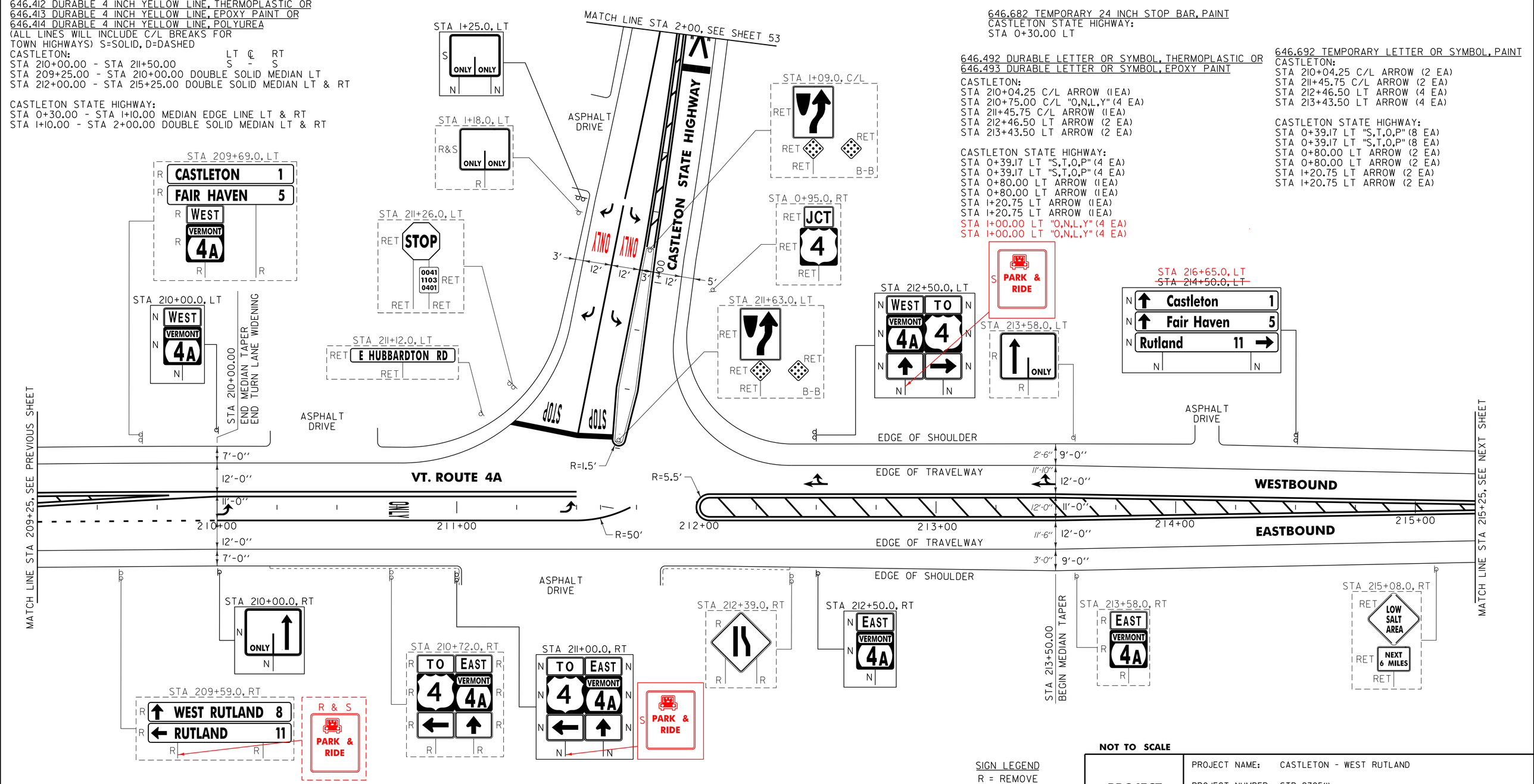
675.60 ERECTING SALVAGED SIGNS
AS SHOWN - 1

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC OR
646.493 DURABLE LETTER OR SYMBOL, EPOXY PAINT
CASTLETON:
STA 210+04.25 C/L ARROW (1 EA)
STA 210+75.00 C/L "O,N,L,Y" (4 EA)
STA 211+45.75 C/L ARROW (1 EA)
STA 212+46.50 LT ARROW (2 EA)
STA 213+43.50 LT ARROW (2 EA)

CASTLETON STATE HIGHWAY:
STA 0+39.17 LT "S,T,O,P" (4 EA)
STA 0+39.17 LT "S,T,O,P" (4 EA)
STA 0+80.00 LT ARROW (1 EA)
STA 0+80.00 LT ARROW (1 EA)
STA 1+20.75 LT ARROW (1 EA)
STA 1+20.75 LT ARROW (1 EA)
STA 1+00.00 LT "O,N,L,Y" (4 EA)
STA 1+00.00 LT "O,N,L,Y" (4 EA)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
CASTLETON:
STA 210+04.25 C/L ARROW (2 EA)
STA 211+45.75 C/L ARROW (2 EA)
STA 212+46.50 LT ARROW (4 EA)
STA 213+43.50 LT ARROW (4 EA)

CASTLETON STATE HIGHWAY:
STA 0+39.17 LT "S,T,O,P" (8 EA)
STA 0+39.17 LT "S,T,O,P" (8 EA)
STA 0+80.00 LT ARROW (2 EA)
STA 0+80.00 LT ARROW (2 EA)
STA 1+20.75 LT ARROW (2 EA)
STA 1+20.75 LT ARROW (2 EA)



NOT TO SCALE

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———

PROJECT LAYOUT SHEET #2

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68102.i
PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 23 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 215+25.00 - STA 226+50.00 EDGE LINE LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 215+25.00 - STA 226+50.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT ℄	RT
STA 216+25.00 - STA 226+50.00	S	S
STA 215+25.00 - STA 216+25.00 DOUBLE SOLID MEDIAN		

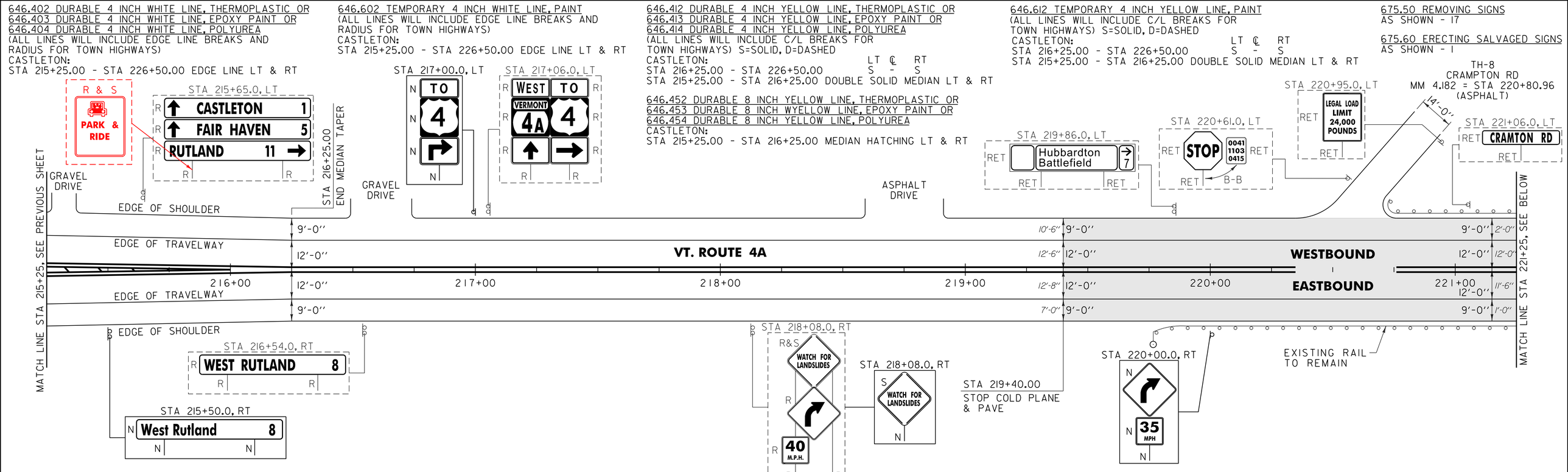
646.452 DURABLE 8 INCH YELLOW LINE, THERMOPLASTIC OR
646.453 DURABLE 8 INCH WYELLOW LINE, EPOXY PAINT OR
646.454 DURABLE 8 INCH YELLOW LINE, POLYUREA
CASTLETON:
STA 215+25.00 - STA 216+25.00 MEDIAN HATCHING LT & RT

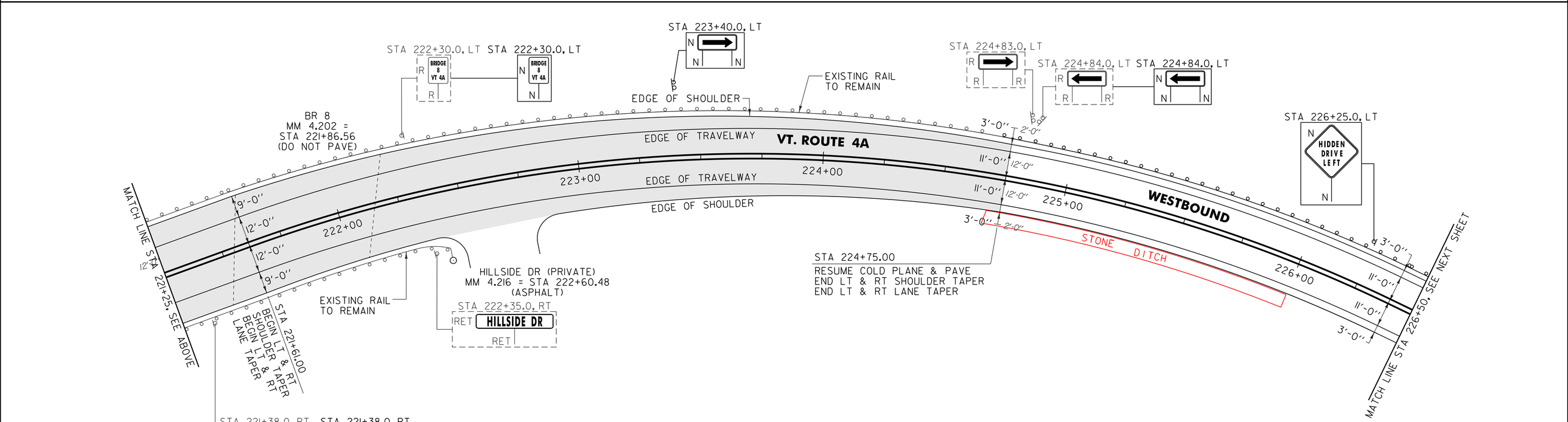
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT ℄	RT
STA 216+25.00 - STA 226+50.00	S	S
STA 215+25.00 - STA 216+25.00 DOUBLE SOLID MEDIAN		

675.50 REMOVING SIGNS
AS SHOWN - 17

675.60 ERECTING SALVAGED SIGNS
AS SHOWN - 1





NO PAVING WORK TO BE PERFORMED IN THIS AREA

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
CASTLETON:
STA 224+72.0 - STA 226+50.0 LT (178.0 LF)

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
CASTLETON:
STA 224+72.0 - STA 226+50.0 LT (178.0 LF)

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ———

NOT TO SCALE

PROJECT LAYOUT SHEET #3

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68103.i
PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 24 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 226+50.00 - STA 238+50.00 EDGE LINE LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 226+50.00 - STA 238+50.00 EDGE LINE LT & RT

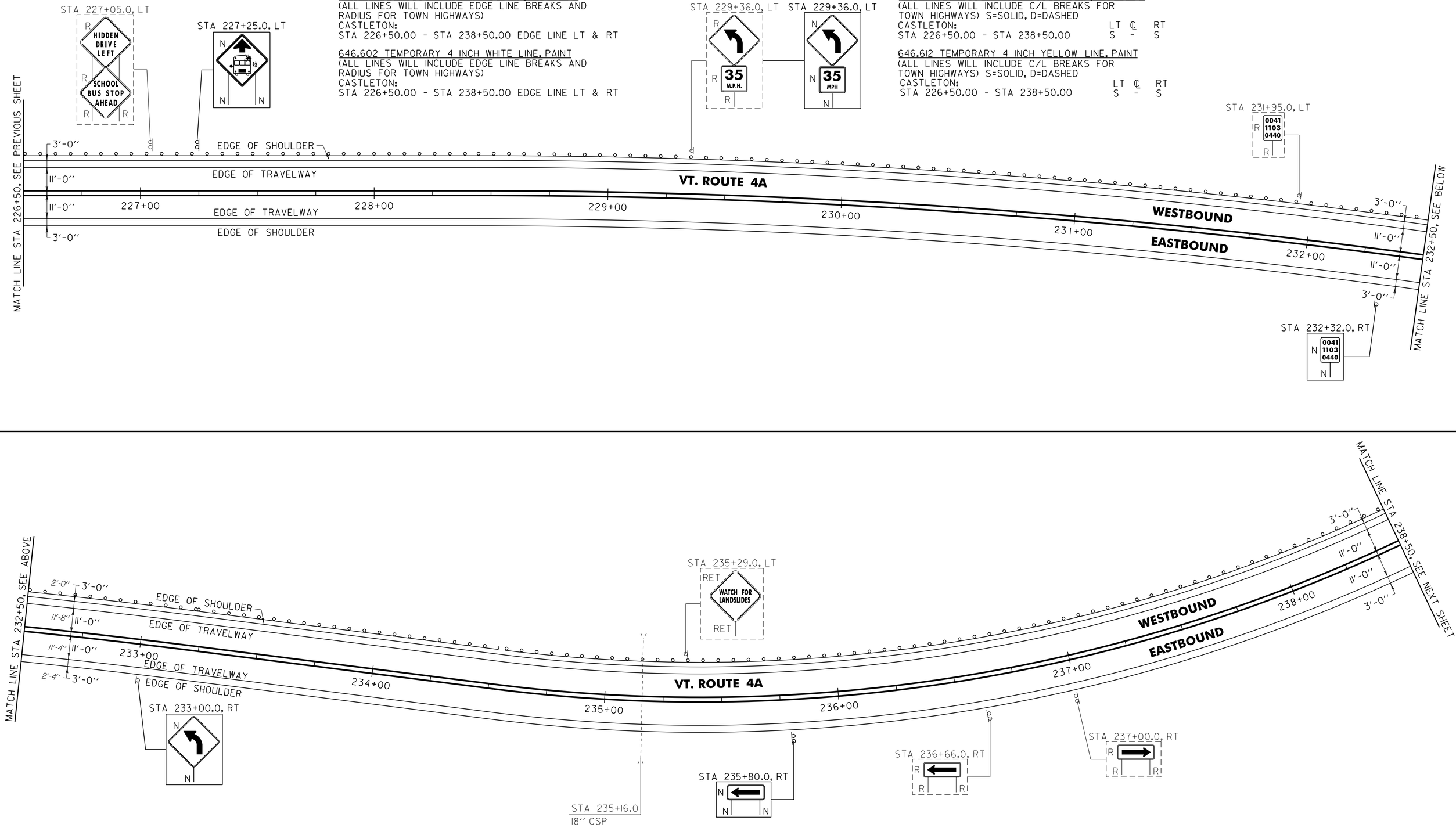
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 226+50.00 - STA 238+50.00	S	-	S

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 226+50.00 - STA 238+50.00	S	-	S

675.50 REMOVING SIGNS
AS SHOWN - 7



621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
CASTLETON:
STA 226+50.0 - STA 238+50.0 LT (1200.0 LF)

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
CASTLETON:
STA 226+50.0 - STA 238+50.0 LT (1200.0 LF)

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———

NOT TO SCALE

PROJECT LAYOUT SHEET #4

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68104.i
PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 25 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 238+50.00 - STA 250+50.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

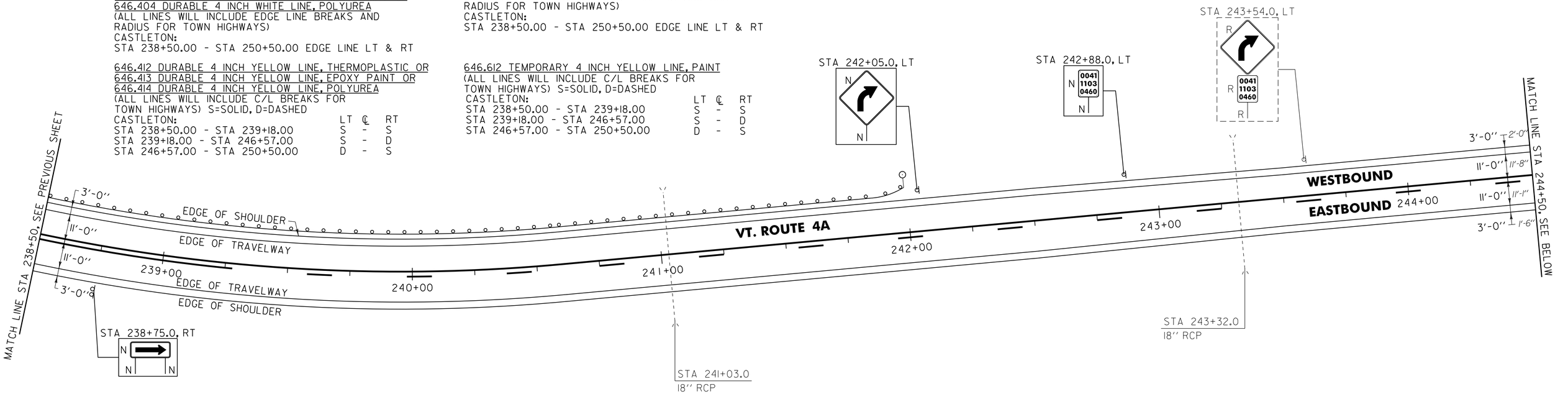
CASTLETON:	LT	℄	RT
STA 238+50.00 - STA 239+18.00	S	-	S
STA 239+18.00 - STA 246+57.00	S	-	D
STA 246+57.00 - STA 250+50.00	D	-	S

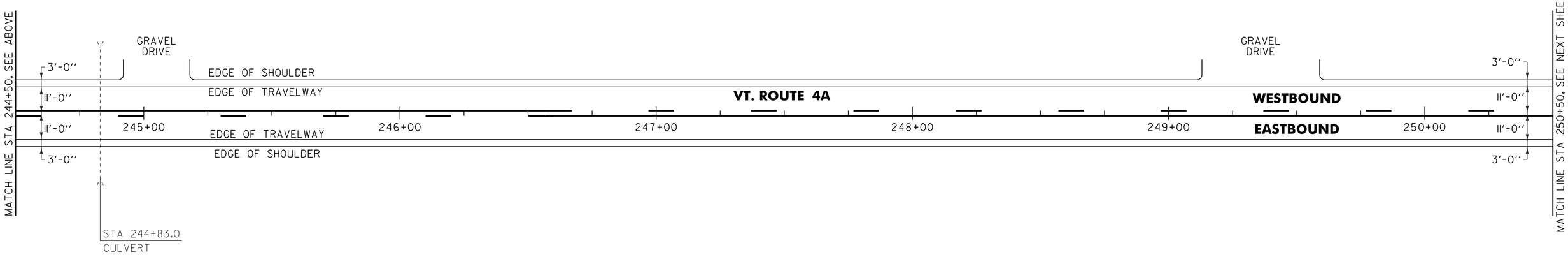
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 238+50.00 - STA 250+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 238+50.00 - STA 239+18.00	S	-	S
STA 239+18.00 - STA 246+57.00	S	-	D
STA 246+57.00 - STA 250+50.00	D	-	S

675.50 REMOVING SIGNS
AS SHOWN - 2





621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
CASTLETON:
STA 238+50.0 - STA 241+99.0 LT (349.0 LF)

621.60 ANCHOR FOR STEEL BEAM RAIL
CASTLETON:
STA 241+92.5 LT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
CASTLETON:
STA 238+50.0 - STA 241+90.0 LT (340.0 LF)

676.10 DELINEATOR WITH STEEL POST
CASTLETON:
STA 241+99.0 LT

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ————

NOT TO SCALE

PROJECT LAYOUT SHEET #5

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68105.i
PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 26 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 250+50.00 - STA 262+50.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

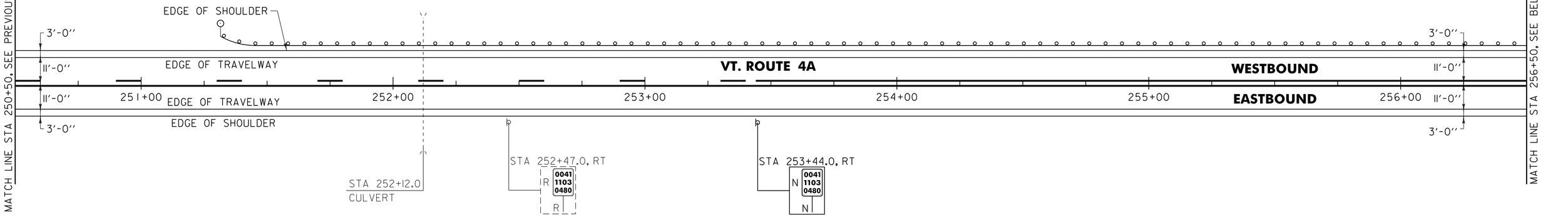
CASTLETON:	LT	℄	RT
STA 250+50.00 - STA 253+44.00	D	-	S
STA 253+44.00 - STA 262+50.00	S		S

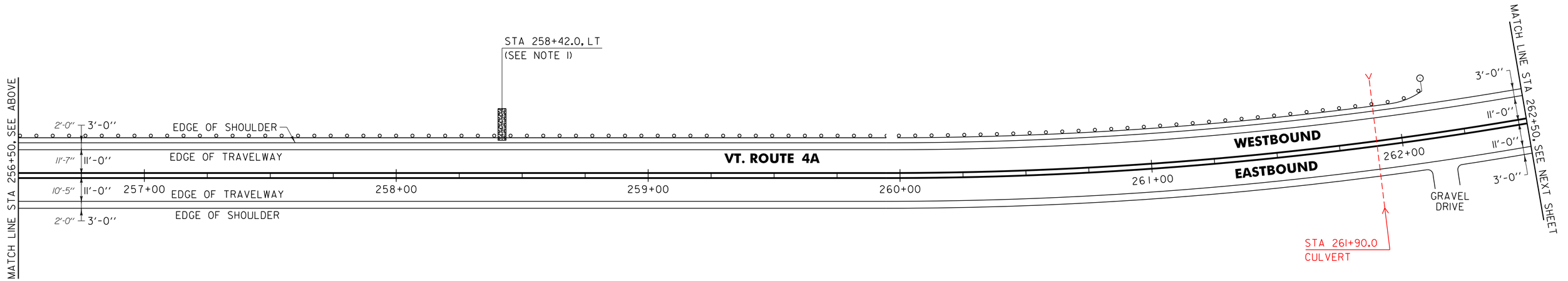
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 250+50.00 - STA 262+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 250+50.00 - STA 253+44.00	D	-	S
STA 253+44.00 - STA 262+50.00	S		S

675.50 REMOVING SIGNS
AS SHOWN - 1





613.10 STONE FILL, TYPE I
CASTLETON:
STA 258+42.0 LT (2.0 CY)

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
CASTLETON:
STA 251+31.5 - STA 262+10.5 LT (1079.0 LF)

621.60 ANCHOR FOR STEEL BEAM RAIL
CASTLETON:
STA 251+38.0 LT
STA 262+04.0 LT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
CASTLETON:
STA 251+37.0 - STA 262+05.0, LT (1068.0 LF)

676.10 DELINEATOR WITH STEEL POST
CASTLETON:
STA 251+31.5 LT
STA 262+10.5 LT

NOTE:

1. AN ESTIMATED QUANTITY OF ITEM 613.10 STONE FILL, TYPE I HAS BEEN INCLUDED FOR THE REPAIR OF THE EXISTING SLOPE BY THE CONTRACTOR AS DIRECTED BY THE RESIDENT ENGINEER.

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ————————

NOT TO SCALE

PROJECT LAYOUT SHEET #6

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168106.i
PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 27 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 262+50.00 - STA 274+50.00 LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

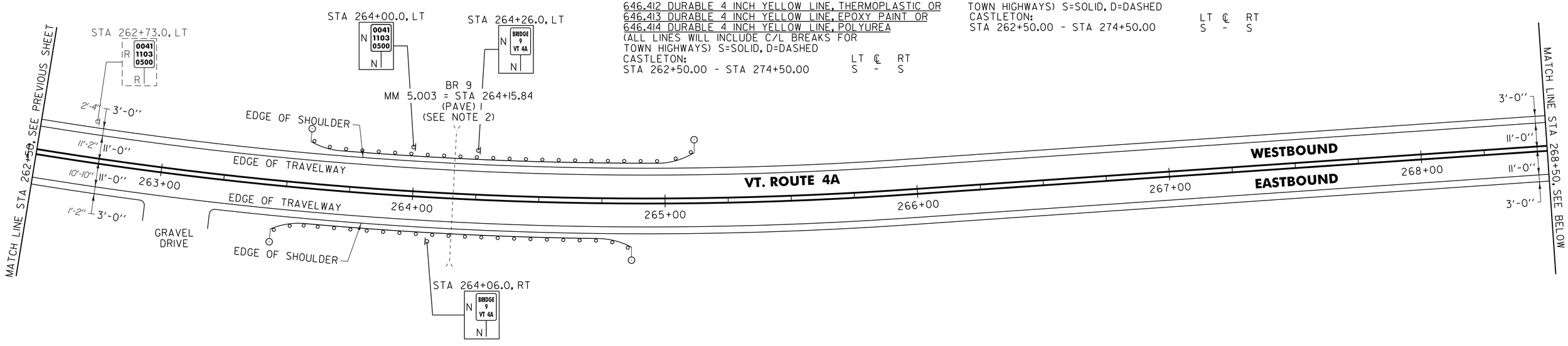
	LT	℄	RT
STA 262+50.00 - STA 274+50.00	S	-	S

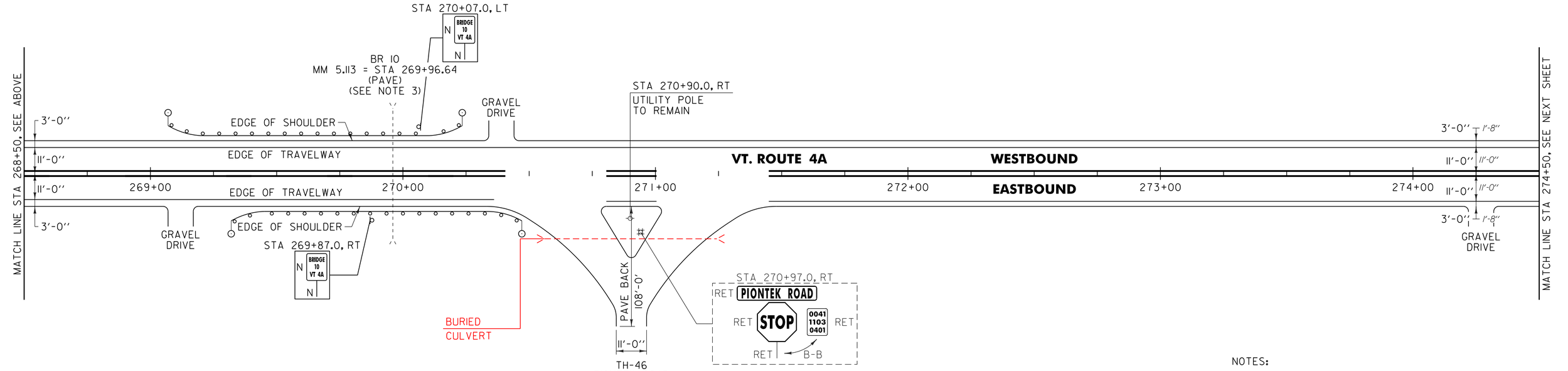
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 262+50.00 - STA 274+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 262+50.00 - STA 274+50.00	S	-	S

675.50 REMOVING SIGNS
AS SHOWN - 1





621.20 STEEL BEAM GUARDRAIL, GALVANIZED
CASTLETON:
STA 263+45.3 - STA 263+72.3 RT (27.0 LF)
STA 263+57.8 - STA 263+72.3 LT (14.5 LF)
STA 264+59.8 - STA 264+86.8 RT (27.0 LF)
STA 264+59.8 - STA 265+11.8 LT (52.0 LF)
STA 269+07.0 - STA 269+84.0 LT (77.0 LF)
STA 269+32.0 - STA 269+84.0 RT (52.0 LF)
STA 270+09.0 - STA 270+23.5 LT (14.5 LF)
STA 270+09.0 - STA 270+48.5 RT (39.5 LF)

621.216 HD STEEL BEAM GUARDRAIL, GALVANIZED/NESTED
CASTLETON:
STA 263+72.3 - STA 264+59.8 RT (87.5 LF)
STA 263+72.3 - STA 264+59.8 LT (87.5 LF)
STA 269+84.0 - STA 270+09.0 LT (25.0 LF)
STA 269+84.0 - STA 270+09.0 RT (25.0 LF)

621.60 ANCHOR FOR STEEL BEAM RAIL
CASTLETON:
STA 263+51.8 RT
STA 263+64.3 LT
STA 264+80.3 RT
STA 265+05.3 LT
STA 269+13.5 LT
STA 269+38.5 RT
STA 270+17.0 LT
STA 270+42.0 RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
CASTLETON:
STA 263+56.0 - STA 264+80.0 RT (124.0 LF)
STA 263+67.0 - STA 265+04.0 LT (137.0 LF)
STA 269+18.0 - STA 270+15.0 LT (97.0 LF)
STA 269+29.0 - STA 270+39.0 RT (110.0 LF)

676.10 DELINEATOR WITH STEEL POST
CASTLETON:
STA 263+45.3 RT
STA 263+57.8 LT
STA 264+86.8 RT
STA 265+11.8 LT
STA 269+07.0 LT
STA 269+32.0 RT
STA 270+23.5 LT
STA 270+48.5 RT

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ————

NOTES:
1. PAVE BACK 108 FT FROM VT. ROUTE 4A EDGE OF SHOULDER TO THE EXISTING BRIDGE ON PIONTEK ROAD OR AS DIRECTED BY THE RESIDENT ENGINEER.
2. SEE SHEET 9 FOR DOUBLE-NESTED GUARDRAIL SYSTEM.
3. SEE SHEET 10 FOR STEEL BEAM GUARDRAIL AT SMALL CULVERT DETAIL.

NOT TO SCALE

PROJECT LAYOUT SHEET #7

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(1)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68107.i
PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 274+50.00 - STA 286+50.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

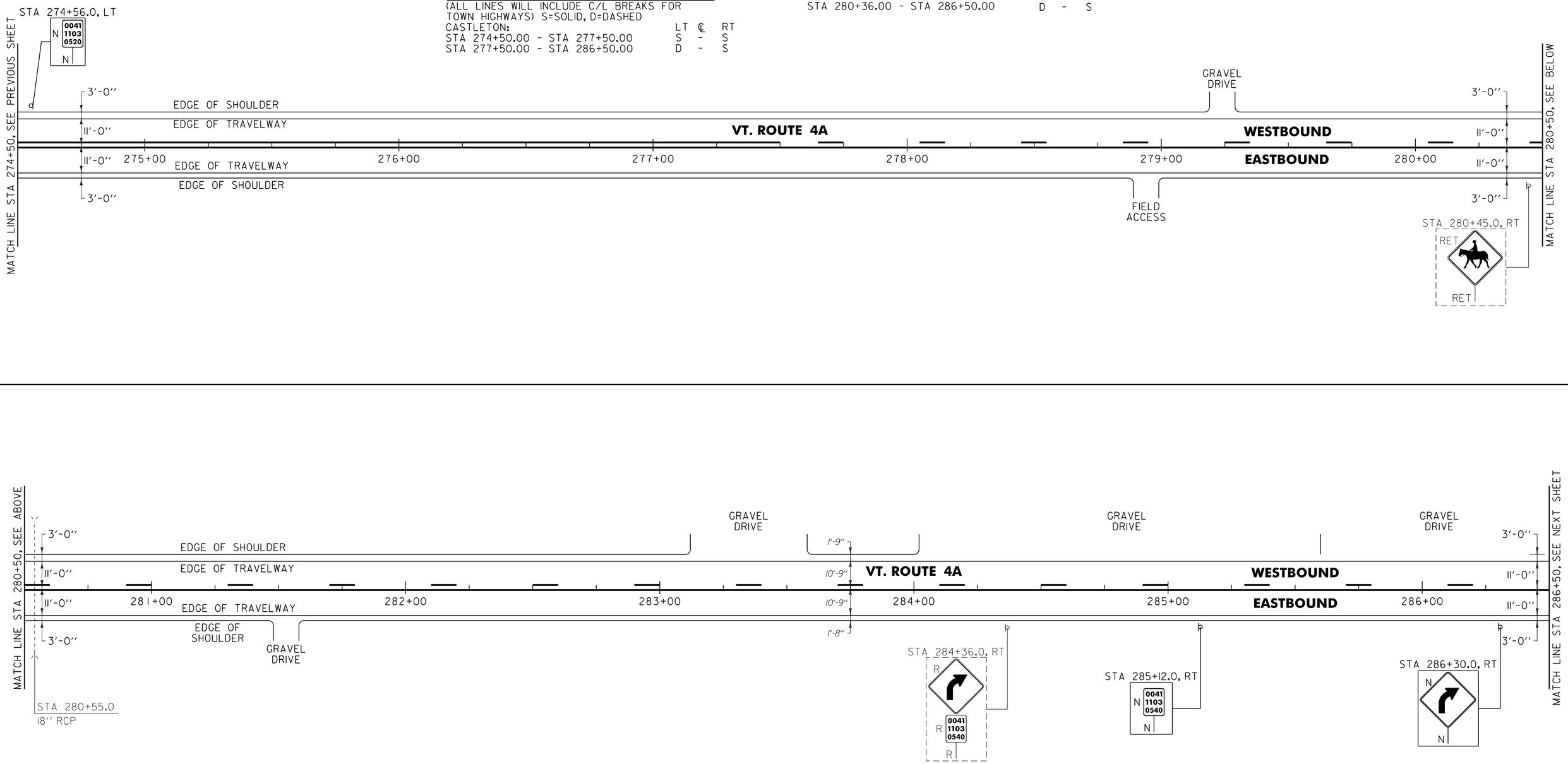
CASTLETON:	LT	℄	RT
STA 274+50.00 - STA 277+50.00	S	-	S
STA 277+50.00 - STA 286+50.00	D	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 274+50.00 - STA 286+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 274+50.00 - STA 280+36.00	S	-	S
STA 280+36.00 - STA 286+50.00	D	-	S

675.50 REMOVING SIGNS
AS SHOWN - 2



NOT TO SCALE

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———

PROJECT LAYOUT SHEET #8

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68108.i
PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 29 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 286+50.00 - STA 298+50.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

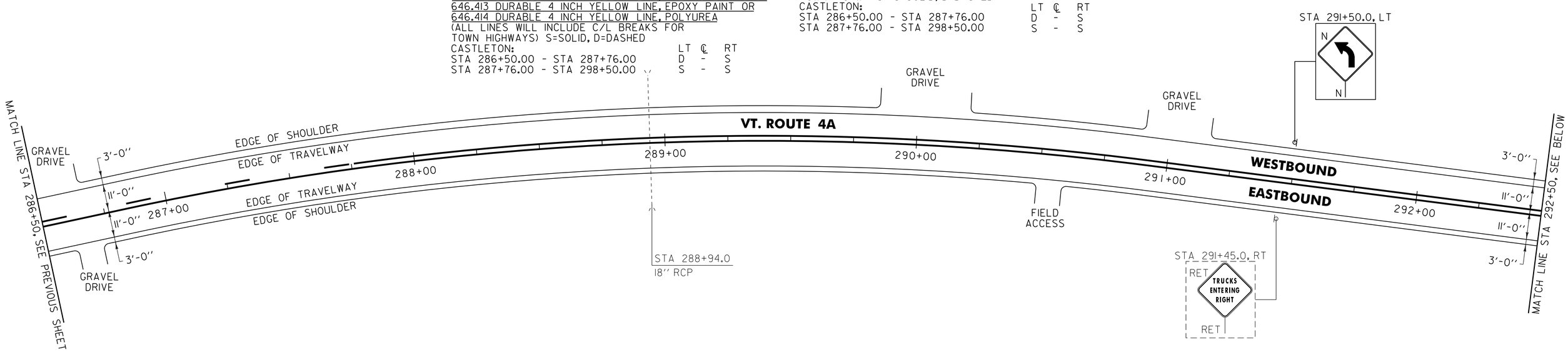
CASTLETON:	LT	℄	RT
STA 286+50.00 - STA 287+76.00	D	-	S
STA 287+76.00 - STA 298+50.00	S	-	S

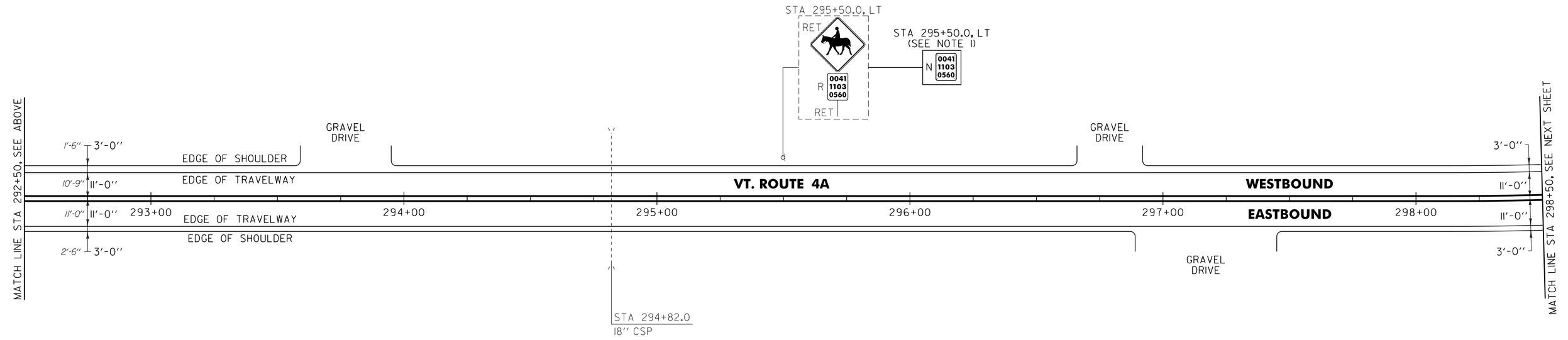
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 286+50.00 - STA 298+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 286+50.00 - STA 287+76.00	D	-	S
STA 287+76.00 - STA 298+50.00	S	-	S

675.50 REMOVING SIGNS
AS SHOWN - 1





NOTE:

1. THE NEW MILE MARKER SIGN IS TO BE INSTALLED ON THE EXISTING SIGN POST.

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———

NOT TO SCALE

PROJECT LAYOUT SHEET #9

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(1)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68109.i
PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 30 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 298+50.00 - STA 310+50.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

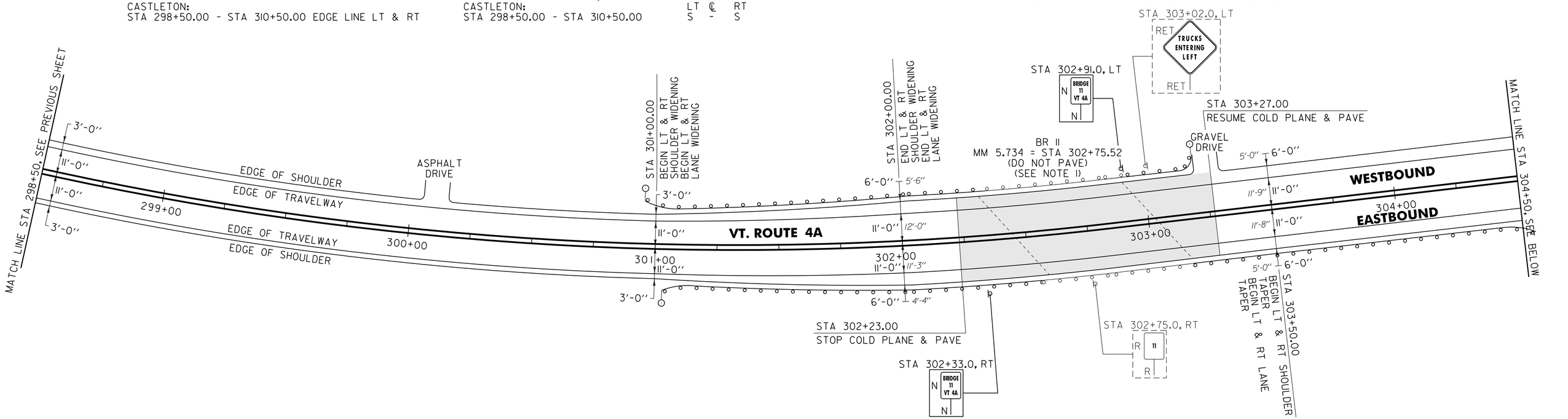
	LT	℄	RT
STA 298+50.00 - STA 310+50.00	S	-	S

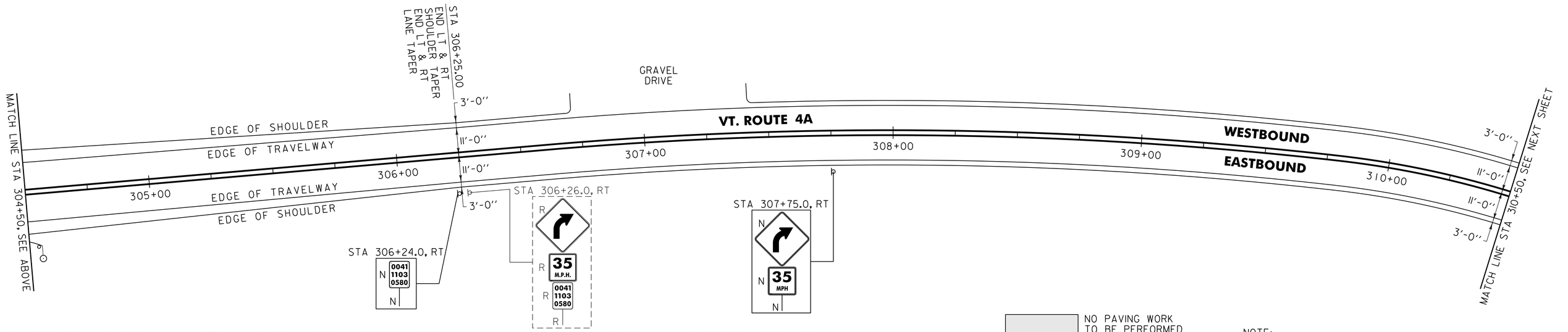
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 298+50.00 - STA 310+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 298+50.00 - STA 310+50.00	S	-	S

675.50 REMOVING SIGNS
AS SHOWN - 4





621.20 STEEL BEAM GUARDRAIL, GALVANIZED
CASTLETON:
STA 300+95.5 - STA 301+85.0 LT (89.5 LF)
STA 301+03.0 - STA 302+05.0 RT (102.0 LF)
STA 303+05.5 - STA 303+20.0 LT (14.5 LF)
STA 303+66.0 - STA 304+55.5 RT (89.5 LF)

621.60 ANCHOR FOR STEEL BEAM RAIL
CASTLETON:
STA 301+02.0 LT
STA 301+09.5 RT
STA 303+13.5 LT
STA 304+49.0 RT

621.70 GUARDRAIL APPROACH SECTION, GALVANIZED TYPE I
CASTLETON:
STA 301+85.0 - STA 302+35.0 LT
STA 302+05.0 - STA 302+55.0 RT
STA 303+16.0 - STA 303+66.0 RT

621.71 GUARDRAIL APPROACH SECTION, GALVANIZED TYPE II
CASTLETON:
STA 302+93.0 - STA 303+05.5 LT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
CASTLETON:
STA 300+97.0 - STA 302+35.0 LT (138.0 LF)
STA 301+03.0 - STA 302+55.0 RT (152.0 LF)
STA 302+93.0 - STA 303+14.0 LT (21.0 LF)
STA 303+16.0 - STA 304+45.0 RT (129.0 LF)

676.10 DELINEATOR WITH STEEL POST
CASTLETON:
STA 300+95.5 LT
STA 301+03.0 RT
STA 303+20.0 LT
STA 304+55.5 RT

NO PAVING WORK TO BE PERFORMED IN THIS AREA

NOTE:
1. SEE SHEET 83 FOR BR II DETAILS.

NOT TO SCALE

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ———

PROJECT LAYOUT SHEET #10

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(1)
FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168110.i
PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 31 OF 152

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 310+50.00 - STA 322+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

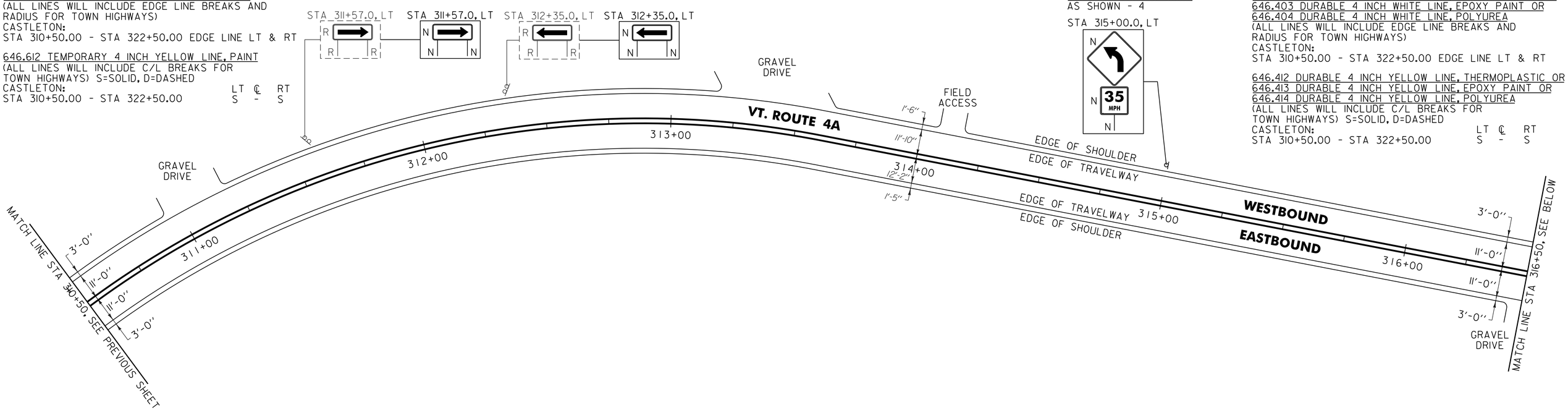
	LT	℄	RT
STA 310+50.00 - STA 322+50.00	S	-	S

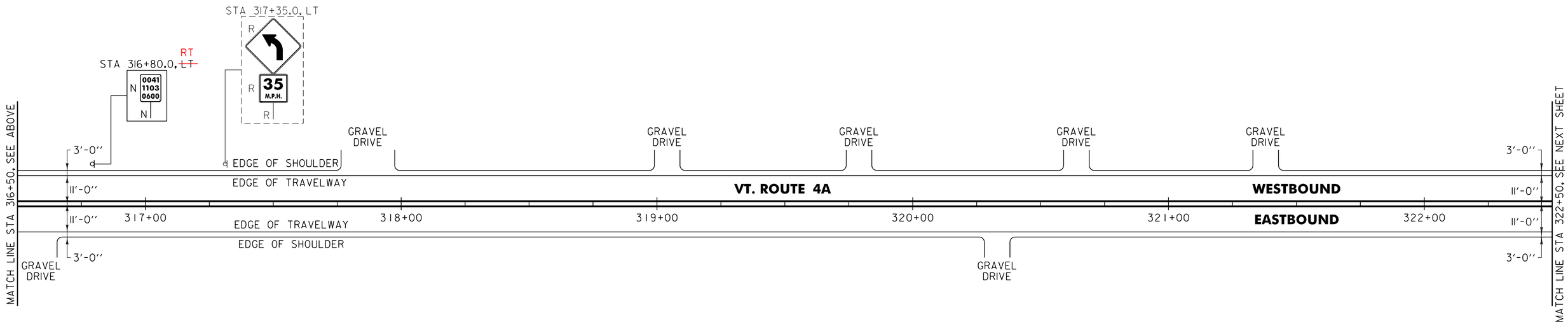
675.50 REMOVING SIGNS
AS SHOWN - 4

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 310+50.00 - STA 322+50.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 310+50.00 - STA 322+50.00	S	-	S





SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ————

NOT TO SCALE

PROJECT LAYOUT SHEET #11

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68III.i
PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 32 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 322+50.00 - STA 331+50.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

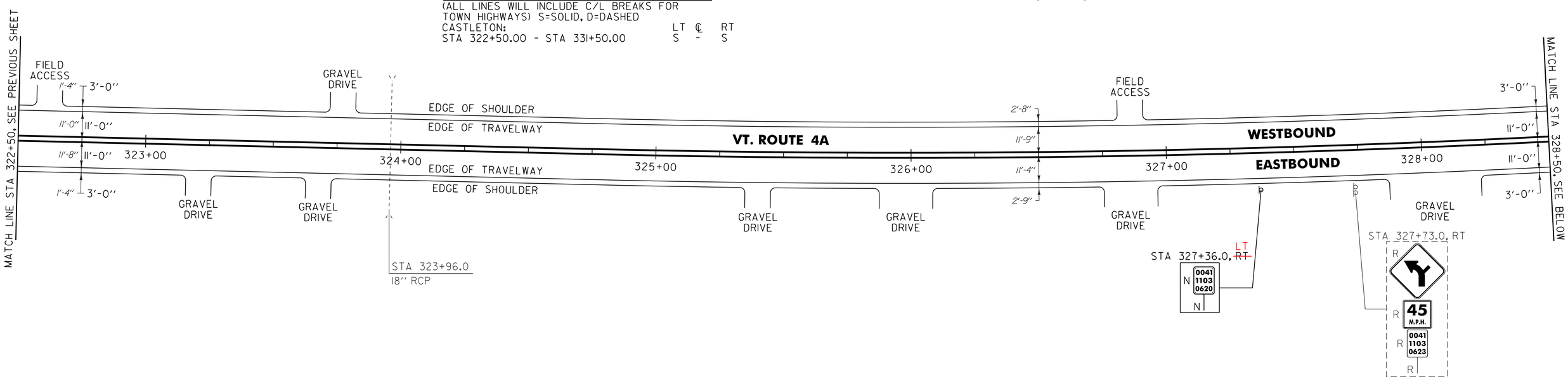
CASTLETON:	LT	℄	RT
STA 322+50.00 - STA 331+50.00	S	-	S

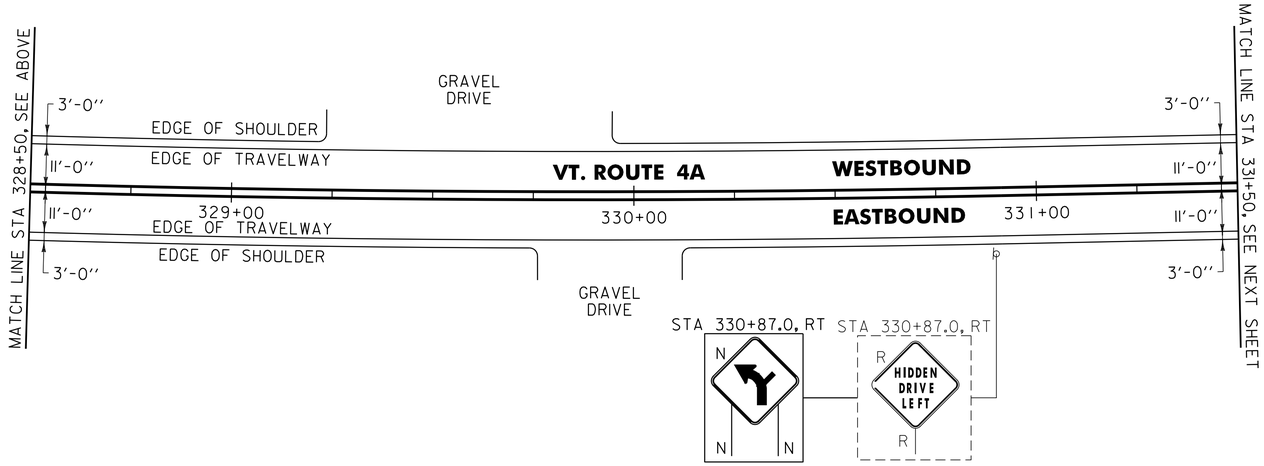
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 322+50.00 - STA 331+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 322+50.00 - STA 331+50.00	S	-	S

675.50 REMOVING SIGNS
AS SHOWN - 4





NOT TO SCALE

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———————

PROJECT LAYOUT SHEET #12

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68112.i
PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 33 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 331+50.00 - STA 337+50.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

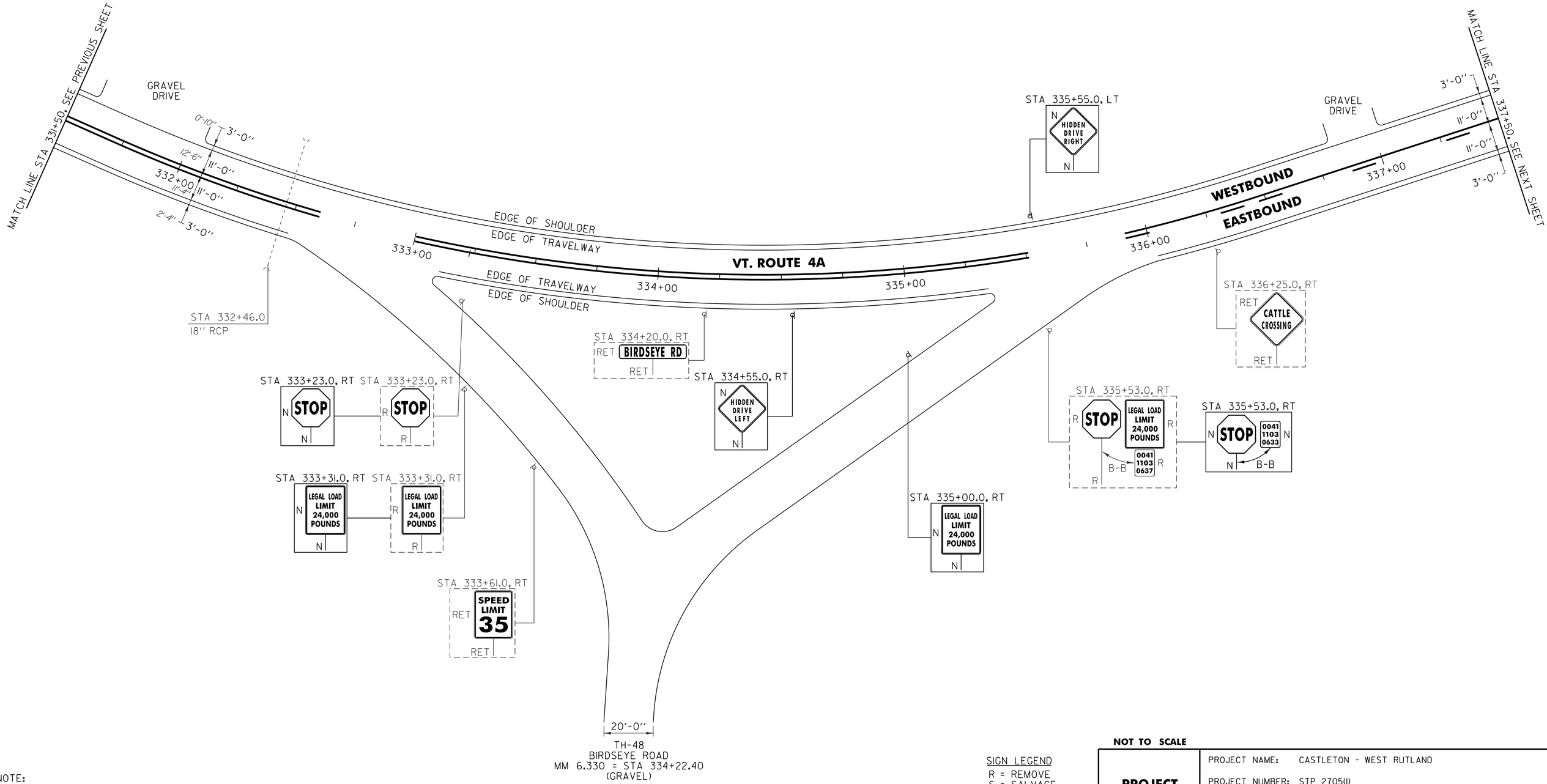
CASTLETON:	LT	℄	RT
STA 331+50.00 - STA 335+80.00	S	-	S
STA 335+80.00 - STA 337+50.00	S	-	D

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 331+50.00 - STA 337+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 331+50.00 - STA 335+80.00	S	-	S
STA 335+80.00 - STA 337+50.00	S	-	D

675.50 REMOVING SIGNS
AS SHOWN - 5



NOTE:

1. PAVING LIMIT ON ALL TOWN HIGHWAYS SHALL BE MEASURED 25 FT BACK FROM VT. ROUTE 4A EDGE OF SHOULDER UNLESS DENOTED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ————————

NOT TO SCALE

PROJECT LAYOUT SHEET #13

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68113.i
PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 34 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 337+50.00 - STA 349+50.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

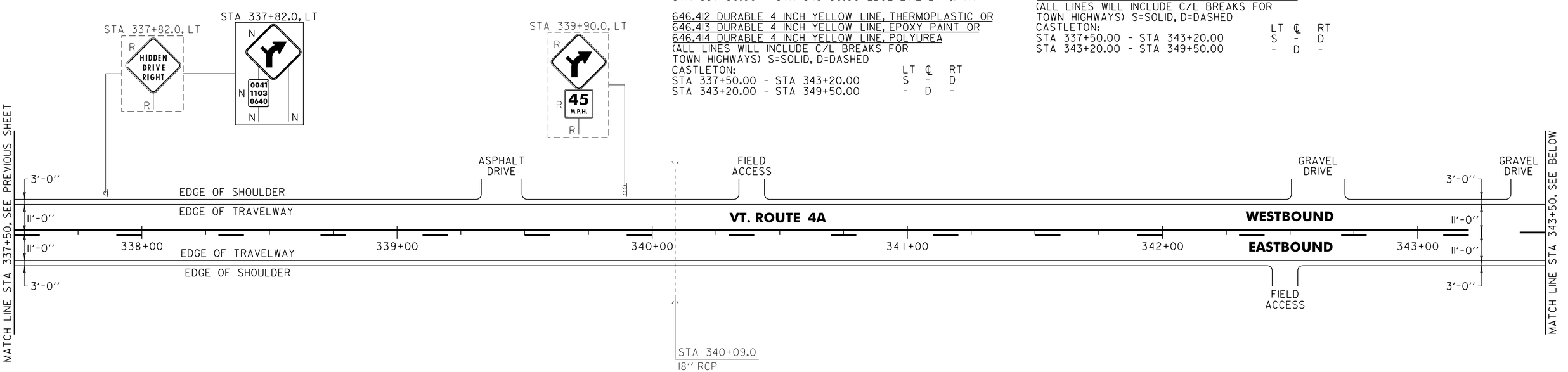
CASTLETON:	LT	℄	RT
STA 337+50.00 - STA 343+20.00	S	-	D
STA 343+20.00 - STA 349+50.00	-	D	-

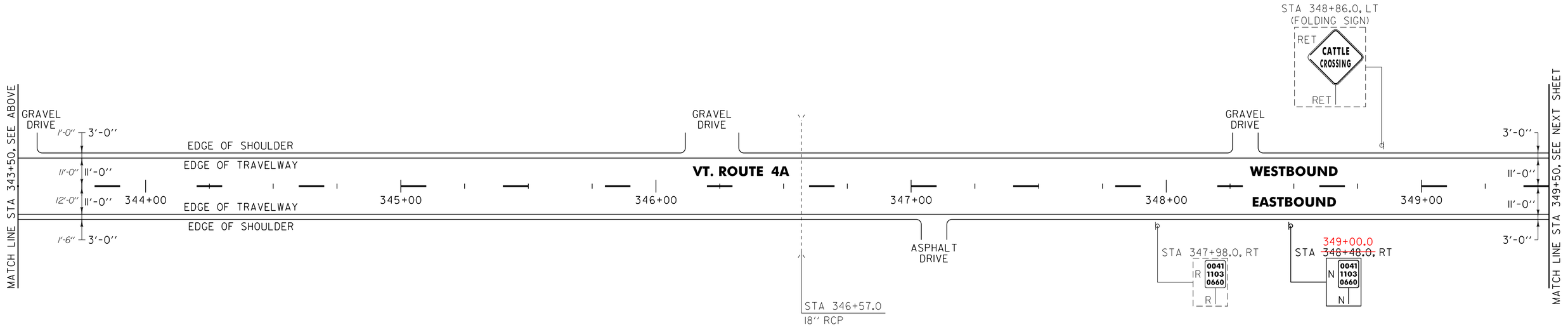
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 337+50.00 - STA 349+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 337+50.00 - STA 343+20.00	S	-	D
STA 343+20.00 - STA 349+50.00	-	D	-

675.50 REMOVING SIGNS
AS SHOWN - 4





SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———————

NOT TO SCALE

PROJECT LAYOUT SHEET #14

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68ll4.i
PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 35 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 349+50.00 - STA 361+50.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

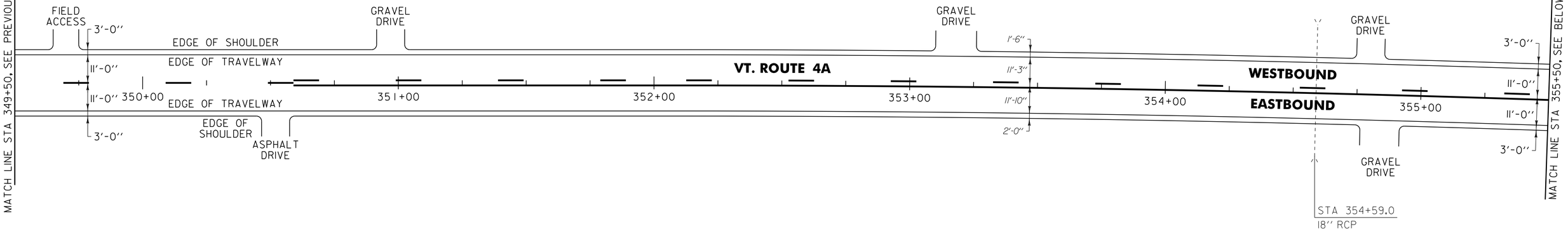
	LT	℄	RT
STA 349+50.00 - STA 350+60.00	-	D	-
STA 350+60.00 - STA 358+50.00	D	-	S
STA 358+50.00 - STA 361+50.00	S	-	S

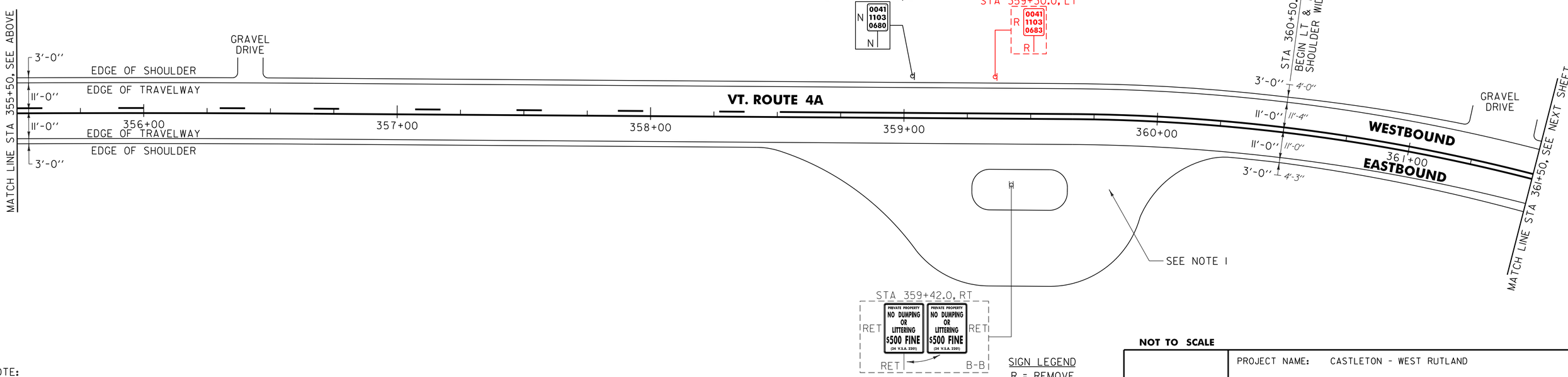
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 349+50.00 - STA 361+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 349+50.00 - STA 350+60.00	-	D	-
STA 350+60.00 - STA 358+50.00	D	-	S
STA 358+50.00 - STA 361+50.00	S	-	S

675.50 REMOVING SIGNS
AS SHOWN - 1





NOTE:

1. PROVIDE A 4 FT WIDE, 1½" TYPE IVS APRON FOR THE EXISTING GRAVEL PULLOUT. ANY REQUIRED EXCAVATION SHALL BE PERFORMED AS DIRECTED BY THE RESIDENT ENGINEER AND PAID FOR UNDER ITEM 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I.

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———————

NOT TO SCALE

PROJECT LAYOUT SHEET #15

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68115.i
PLOT DATE: 04-JUN-2013 09:4
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 36 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 361+50.00 - STA 366+22.08 EDGE LINE LT & RT

IRA:
STA 0+00.00 - STA 7+25.00 EDGE LINE LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 361+50.00 - STA 366+22.08 EDGE LINE LT & RT

IRA:
STA 0+00.00 - STA 7+25.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 361+50.00 - STA 366+22.08	S	-	S

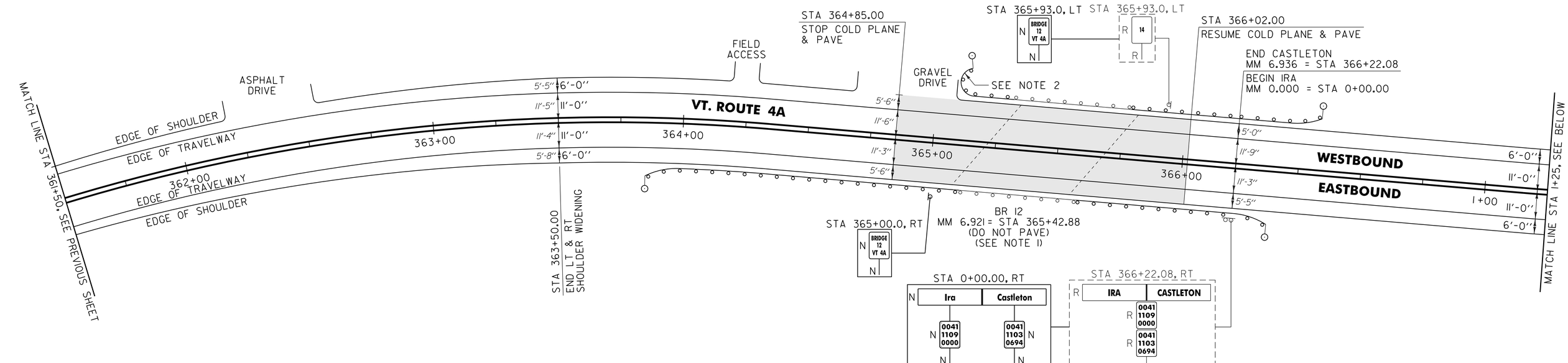
IRA:
STA 0+00.00 - STA 7+25.00 S - S

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 361+50.00 - STA 366+22.08	S	-	S

IRA:
STA 0+00.00 - STA 7+25.00 S - S

675.50 REMOVING SIGNS
AS SHOWN - 6



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
CASTLETON:
STA 363+85.0 - STA 364+62.0 RT (77.0 LF)
STA 365+18.5 - STA 365+18.5 LT (16.0 LF)
STA 366+09.0 - STA 366+22.08 RT (13.08 LF)

IRA:
STA 0+00.0 - STA 0+13.92 RT (13.92 LF)
STA 0+05.92 - STA 0+32.92 LT (27.0 LF)

621.60 ANCHOR FOR STEEL BEAM RAIL
CASTLETON:
STA 363+91.5 RT
STA 365+18.5 LT
~~STA 365+18.5 LT~~ SEE RECORD PLAN NOTE ADJACENT TO NOTE 2

IRA
STA 0+07.42 RT
STA 0+26.42 LT

621.70 GUARDRAIL APPROACH SECTION, GALVANIZED TYPE I
CASTLETON:
STA 364+62.0 - STA 365+12.0 RT
STA 365+59.0 - STA 366+09.0 RT
STA 365+78.0 - STA 366+22.08 LT

IRA:
STA 0+00.0 - STA 0+05.92 LT

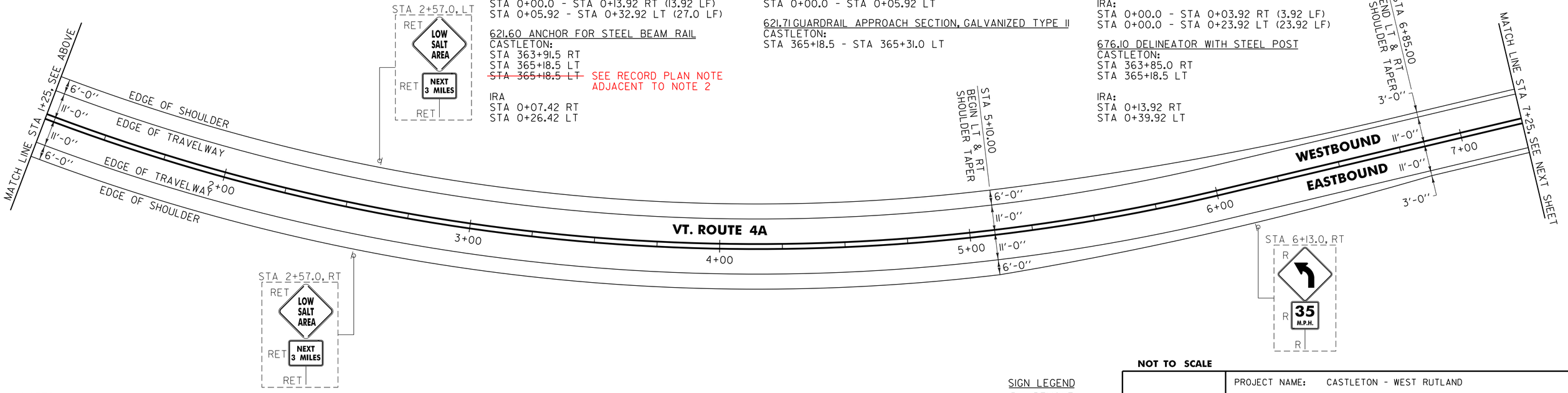
621.71 GUARDRAIL APPROACH SECTION, GALVANIZED TYPE II
CASTLETON:
STA 365+18.5 - STA 365+31.0 LT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
CASTLETON:
STA 363+92.0 - STA 365+12.0 RT (120.0 LF)
STA 365+18.5 - STA 365+31.0 LT (41.0 LF)
STA 365+59.0 - STA 366+22.08 RT (63.08 LF)
STA 365+78.0 - STA 366+22.08 LT (44.08 LF)

IRA:
STA 0+00.0 - STA 0+03.92 RT (3.92 LF)
STA 0+00.0 - STA 0+23.92 LT (23.92 LF)

676.10 DELINEATOR WITH STEEL POST
CASTLETON:
STA 363+85.0 RT
STA 365+18.5 LT

IRA:
STA 0+13.92 RT
STA 0+39.92 LT



NOTES:

1. SEE SHEET 84 FOR BR 12 DETAILS.

2. THE CONTRACTOR SHALL INSTALL A NEW 16' RADIUS PANEL WITH ANCHORS AT EACH END AS DIRECTED BY THE RESIDENT ENGINEER. ONLY ONE ANCHOR INSTALLED DUE TO INSUFFICIENT ROOM TO INSTALL TWO ANCHORS PER RE

NO PAVING WORK TO BE PERFORMED IN THIS AREA

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ———

NOT TO SCALE

PROJECT LAYOUT SHEET #16

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)
FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68116.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 37 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
IRA:
STA 7+25.00 - STA 19+25.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
IRA:

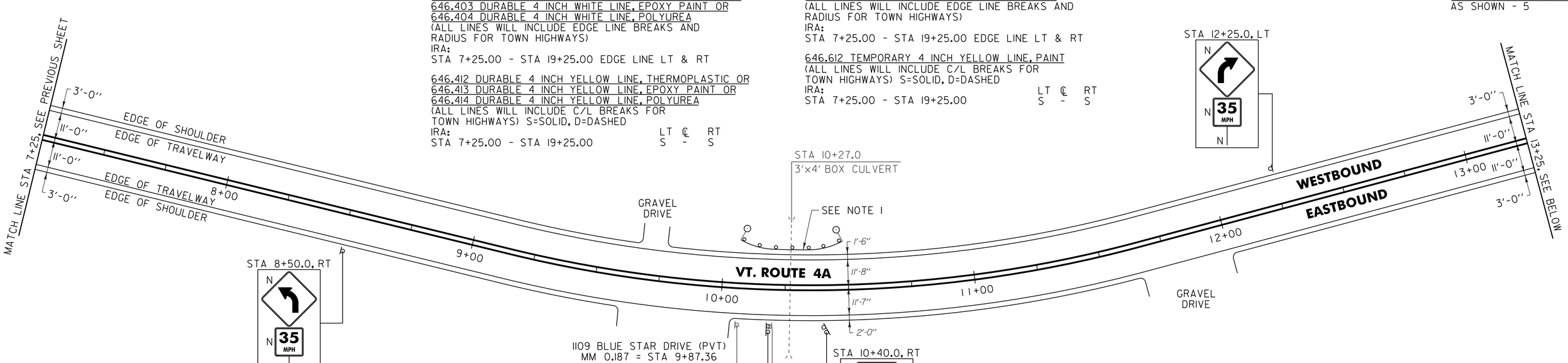
	LT	℄	RT
STA 7+25.00 - STA 19+25.00	S	-	S

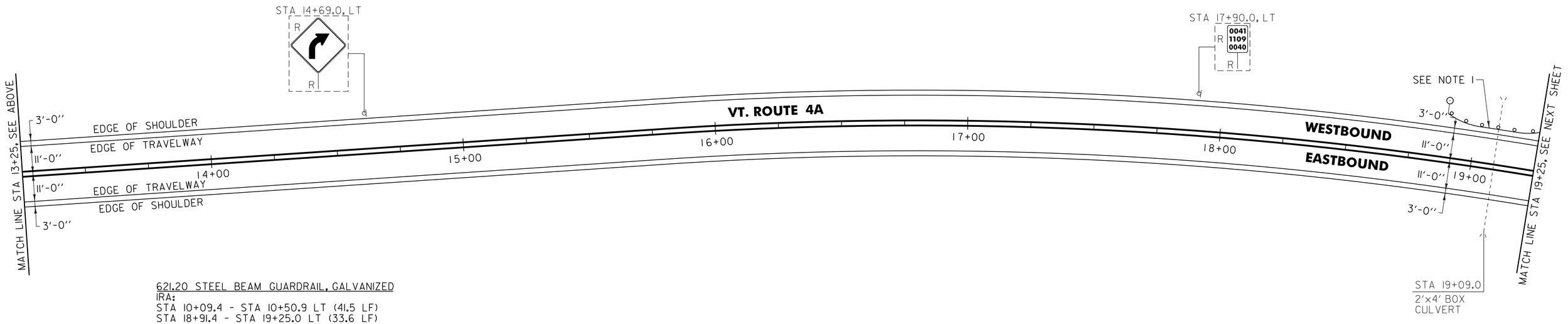
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
IRA:
STA 7+25.00 - STA 19+25.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
IRA:

	LT	℄	RT
STA 7+25.00 - STA 19+25.00	S	-	S

675.50 REMOVING SIGNS
AS SHOWN - 5





621.20 STEEL BEAM GUARDRAIL, GALVANIZED
IRA:
STA 10+09.4 - STA 10+50.9 LT (41.5 LF)
STA 18+91.4 - STA 19+25.0 LT (33.6 LF)

621.60 ANCHOR FOR STEEL BEAM RAIL
IRA:
STA 10+15.9 LT
STA 10+44.4 LT
STA 18+97.9 LT

676.10 DELINEATOR WITH STEEL POST
IRA:
STA 10+09.4 LT
STA 10+50.9 LT
STA 18+91.4 LT

NOTE:

1. CONTRACTOR SHALL SPACE GUARDRAIL POSTS IN A MANNER THAT AVOIDS THE EXISTING CULVERT BELOW AS DIRECTED BY THE RESIDENT ENGINEER.

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ————————

NOT TO SCALE

PROJECT LAYOUT SHEET #17

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(1)
FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68117.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 38 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
IRA:
STA 19+25.00 - STA 31+25.00 EDGE LINE LT & RT

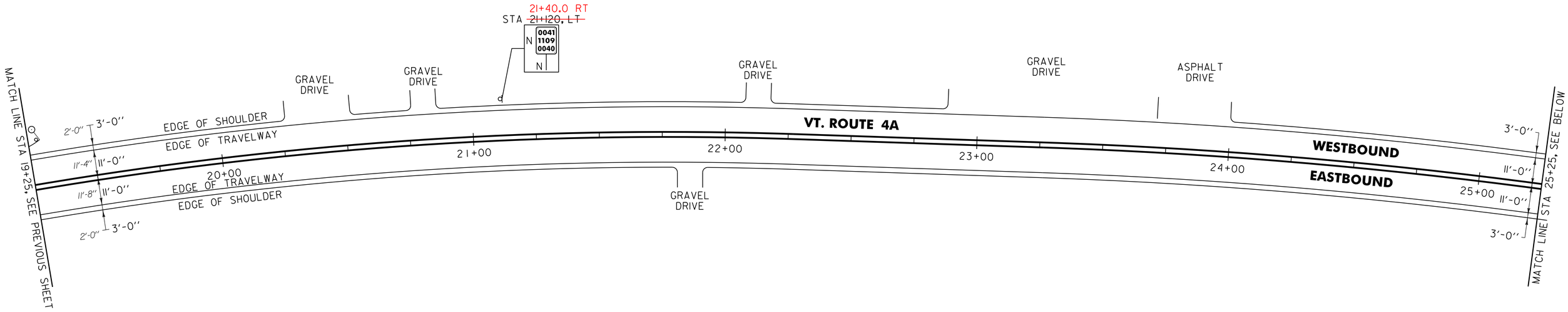
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
IRA:
STA 19+25.00 - STA 31+25.00 EDGE LINE LT & RT

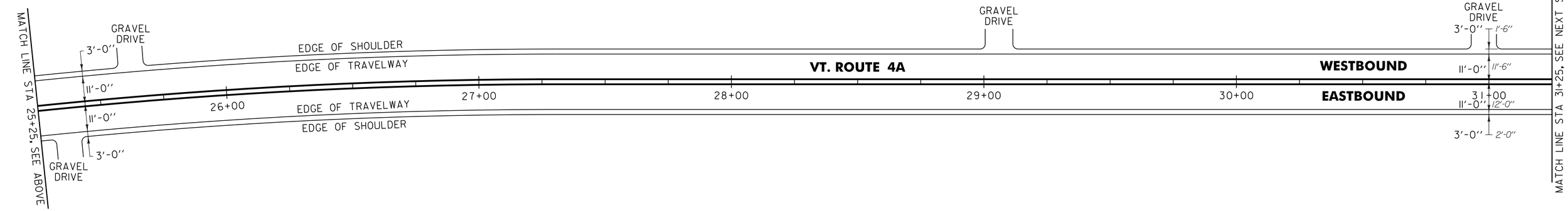
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
IRA:

	LT	℄	RT
STA 19+25.00 - STA 31+25.00	S	-	S

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
IRA:

	LT	℄	RT
STA 19+25.00 - STA 31+25.00	S	-	S





621.20 STEEL BEAM GUARDRAIL, GALVANIZED
IRA:
STA 19+25.0 - STA 19+32.9 LT (7.9 LF)

621.60 ANCHOR FOR STEEL BEAM RAIL
CASTLETON:
STA 19+26.4 LT

676.10 DELINEATOR WITH STEEL POST
IRA:
STA 19+32.9 LT

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———————

NOT TO SCALE

PROJECT LAYOUT SHEET #18

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68118.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 39 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
IRA:
STA 31+25.00 - STA 43+25.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
IRA:

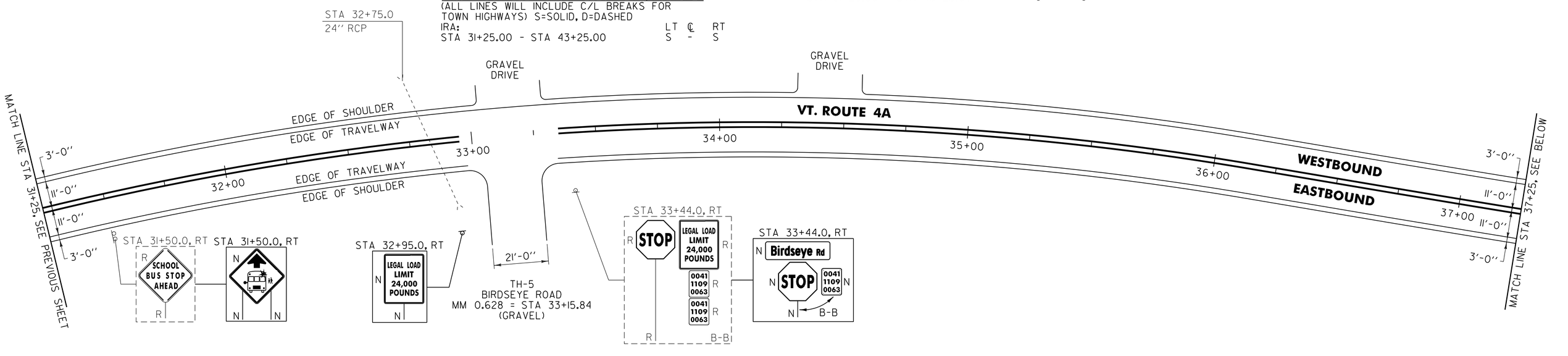
	LT	℄	RT
STA 31+25.00 - STA 43+25.00	S	-	S

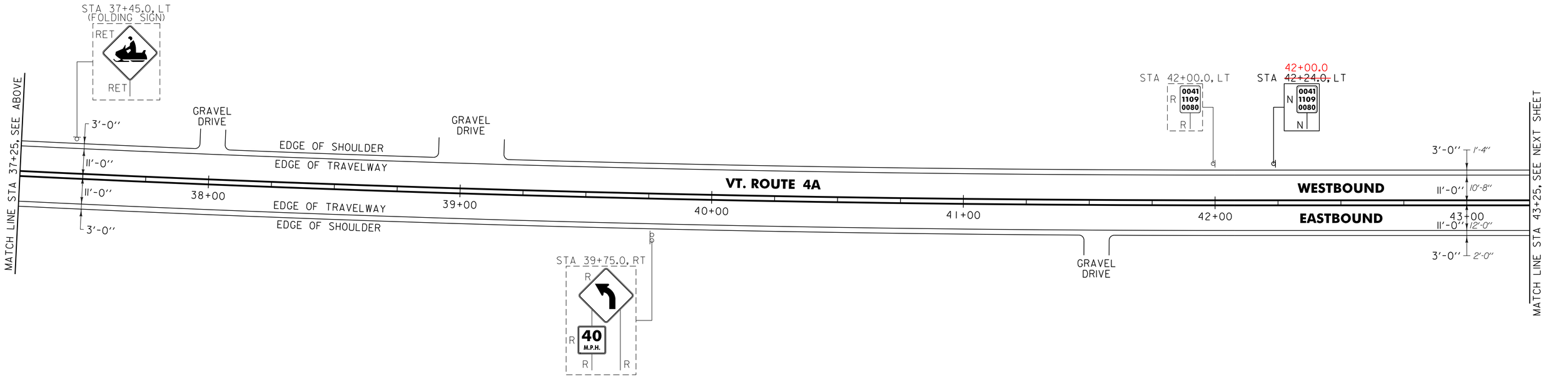
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
IRA:
STA 31+25.00 - STA 43+25.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
IRA:

	LT	℄	RT
STA 31+25.00 - STA 43+25.00	S	-	S

675.50 REMOVING SIGNS
AS SHOWN - 8





NOTE:

1. PAVING LIMIT ON ALL TOWN HIGHWAYS SHALL BE MEASURED 25 FT BACK FROM VT. ROUTE 4A EDGE OF SHOULDER UNLESS DENOTED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———

NOT TO SCALE

PROJECT LAYOUT SHEET #19

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68119.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 40 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
IRA:
STA 43+25.00 - STA 55+25.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

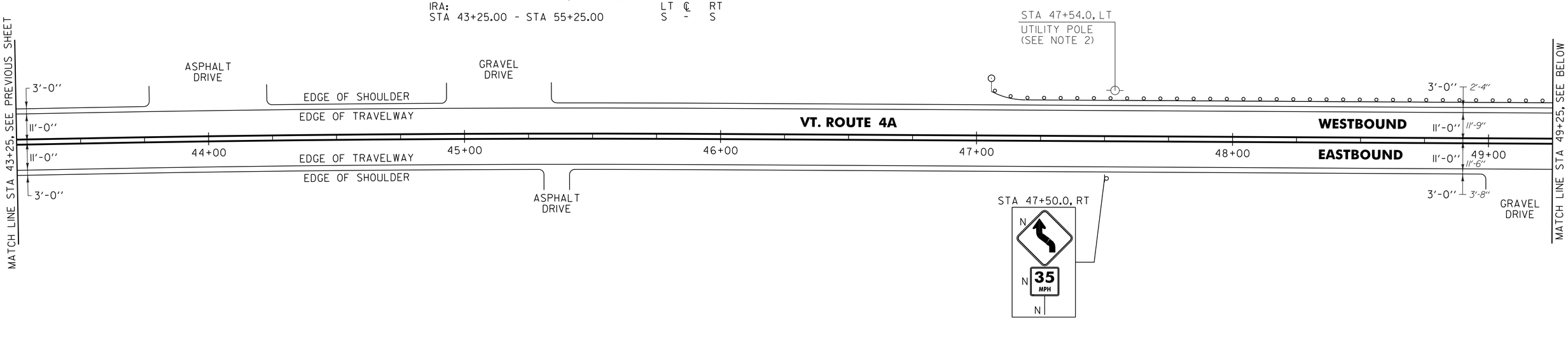
IRA:	LT	℄	RT
STA 43+25.00 - STA 55+25.00	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
IRA:
STA 43+25.00 - STA 55+25.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

IRA:	LT	℄	RT
STA 43+25.00 - STA 55+25.00	S	-	S

675.50 REMOVING SIGNS
AS SHOWN - 10



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
IRA:
STA 49+68.3 - STA 50+20.3 RT (52.0 LF)
STA 51+07.8 - STA 51+47.3 RT (39.5 LF)

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
IRA:
STA 47+05.8 - STA 50+20.3 LT (334.5 LF)
STA 51+07.8 - STA 55+25.0 LT (417.2 LF)

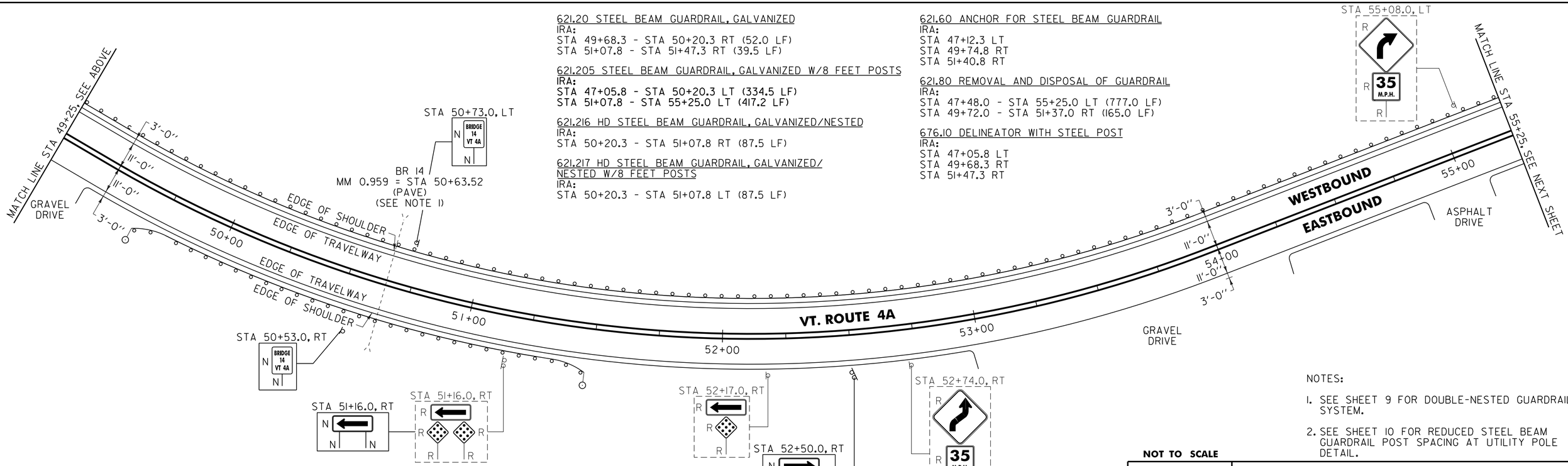
621.216 HD STEEL BEAM GUARDRAIL, GALVANIZED/NESTED
IRA:
STA 50+20.3 - STA 51+07.8 RT (87.5 LF)

621.217 HD STEEL BEAM GUARDRAIL, GALVANIZED/ NESTED W/8 FEET POSTS
IRA:
STA 50+20.3 - STA 51+07.8 LT (87.5 LF)

621.60 ANCHOR FOR STEEL BEAM GUARDRAIL
IRA:
STA 47+12.3 LT
STA 49+74.8 RT
STA 51+40.8 RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
IRA:
STA 47+48.0 - STA 55+25.0 LT (777.0 LF)
STA 49+72.0 - STA 51+37.0 RT (165.0 LF)

676.10 DELINEATOR WITH STEEL POST
IRA:
STA 47+05.8 LT
STA 49+68.3 RT
STA 51+47.3 RT



SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———

NOTES:

1. SEE SHEET 9 FOR DOUBLE-NESTED GUARDRAIL SYSTEM.
2. SEE SHEET 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING AT UTILITY POLE DETAIL.

NOT TO SCALE

PROJECT LAYOUT SHEET #20

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168120.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 41 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
IRA:
STA 55+25.00 - STA 61+25.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

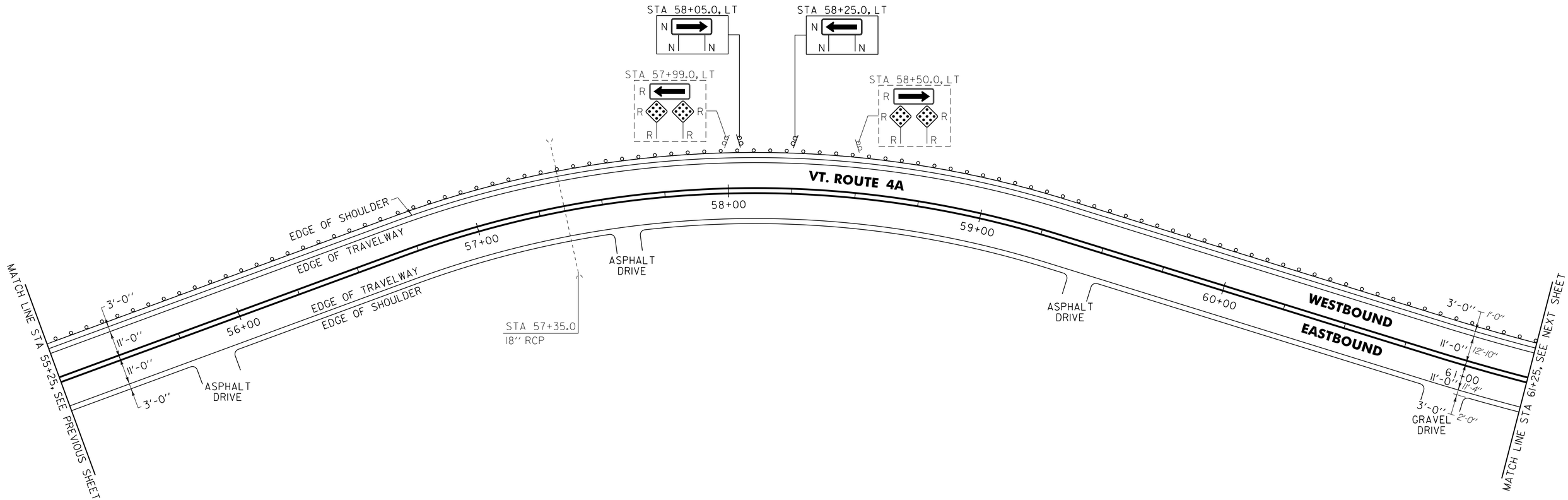
IRA:	LT	℄	RT
STA 55+25.00 - STA 61+25.00	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
IRA:
STA 55+25.00 - STA 61+25.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

IRA:	LT	℄	RT
STA 55+25.00 - STA 61+25.00	S	-	S

675.50 REMOVING SIGNS
AS SHOWN - 6



621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
IRA:
STA 55+25.0 - STA 61+25.0 LT (600.0 LF)

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
IRA:
STA 55+25.0 - STA 61+25.0 (600.0 LF)

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ————————

NOT TO SCALE

PROJECT LAYOUT SHEET #21

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68121.i

PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 42 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
IRA:
STA 61+25.00 - STA 68+69.28 EDGE LINE LT & RT

WEST RUTLAND:
STA 0+00.00 - STA 4+25.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

IRA:	LT	℄	RT
STA 61+25.00 - STA 67+05.00	S	-	S
STA 67+05.00 - STA 68+69.28	S	-	D

WEST RUTLAND:

STA 0+00.00 - STA 4+25.00	S	-	D

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
IRA:
STA 61+25.00 - STA 68+69.28 EDGE LINE LT & RT

WEST RUTLAND:
STA 0+00.00 - STA 4+25.00 EDGE LINE LT & RT

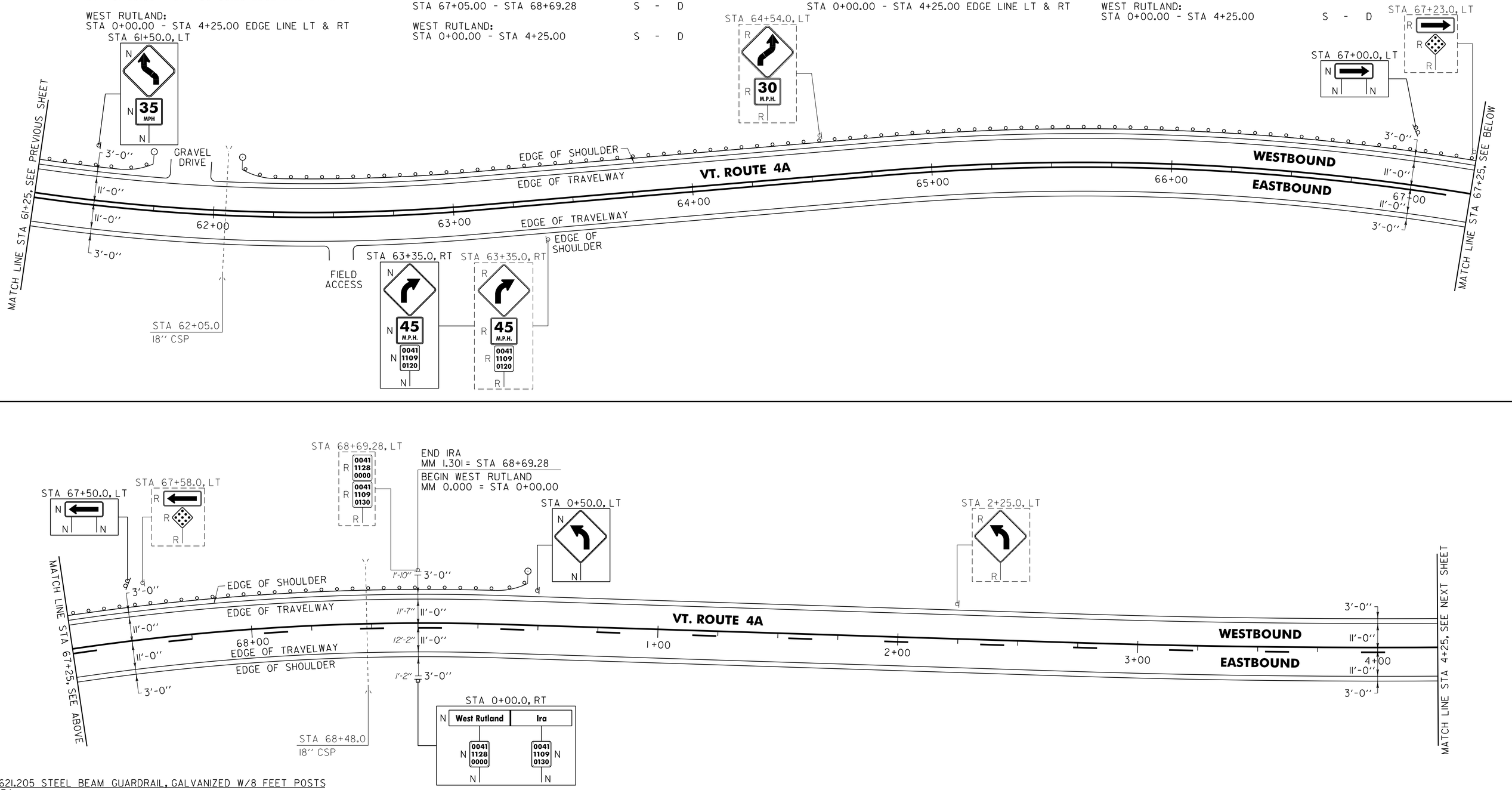
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

IRA:	LT	℄	RT
STA 61+25.00 - STA 67+05.00	S	-	S
STA 67+05.00 - STA 68+69.28	S	-	D

WEST RUTLAND:

STA 0+00.00 - STA 4+25.00	S	-	D

675.50 REMOVING SIGNS
AS SHOWN - 12



621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
IRA:
STA 61+25.0 - STA 61+84.8 LT (59.8 LF)
STA 62+11.0 - STA 68+69.28 LT (658.28 LF)

WEST RUTLAND:
STA 0+00.0 - 0+45.72 LT (45.72 LF)

621.60 ANCHOR FOR STEEL BEAM RAIL
IRA:
STA 61+78.3 LT
STA 62+17.5 LT

WEST RUTLAND:
STA 0+39.22 LT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
IRA:
STA 61+25.0 - STA 61+79.0 LT (54.0 LF)
STA 62+11.0 - STA 68+69.28 LT (658.28 LF)

WEST RUTLAND:
STA 0+00.0 - STA 0+34.72 LT (34.72 LF)

676.10 DELINEATOR WITH STEEL POST
IRA:
STA 61+84.8 LT
STA 62+11.0 LT

WEST RUTLAND:
STA 0+45.72 LT

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———

NOT TO SCALE

PROJECT LAYOUT SHEET #22

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68122.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 43 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
WEST RUTLAND:
STA 4+25.00 - STA 16+25.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
WEST RUTLAND:

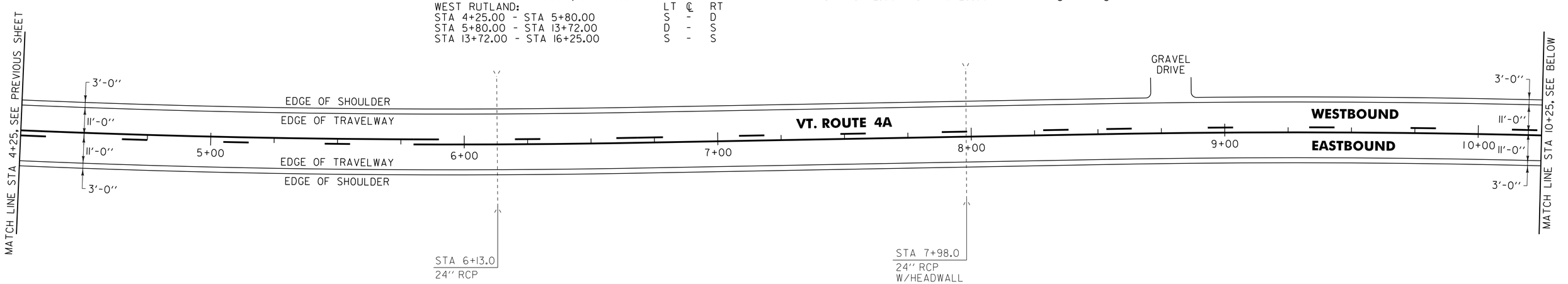
	LT	℄	RT
STA 4+25.00 - STA 5+80.00	S	-	D
STA 5+80.00 - STA 13+72.00	D	-	S
STA 13+72.00 - STA 16+25.00	S	-	S

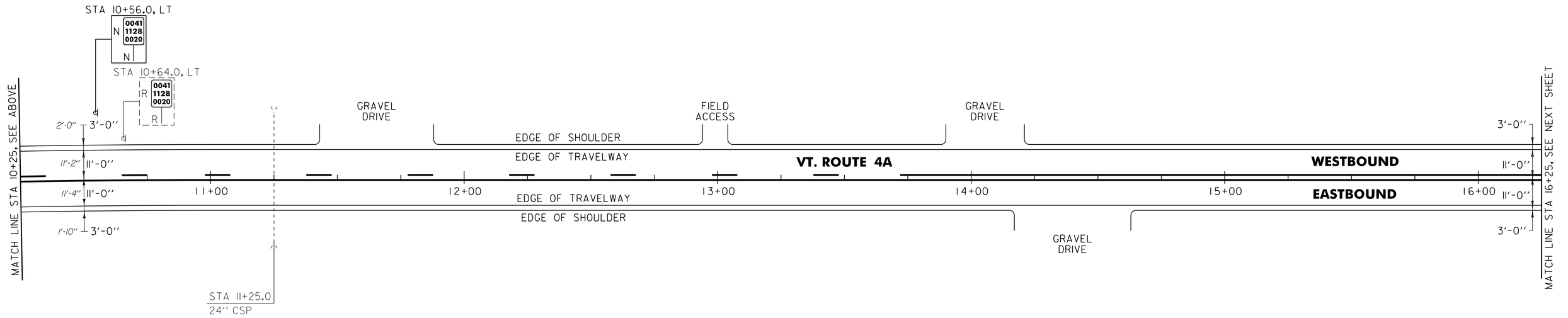
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
WEST RUTLAND:
STA 4+25.00 - STA 16+25.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
WEST RUTLAND:

	LT	℄	RT
STA 4+25.00 - STA 5+80.00	S	-	D
STA 5+80.00 - STA 13+72.00	D	-	S
STA 13+72.00 - STA 16+25.00	S	-	S

675.50 REMOVING SIGNS
AS SHOWN - 1





SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———————

NOT TO SCALE

PROJECT LAYOUT SHEET #23

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168123.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 44 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
WEST RUTLAND:
STA 16+25.00 - STA 28+25.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

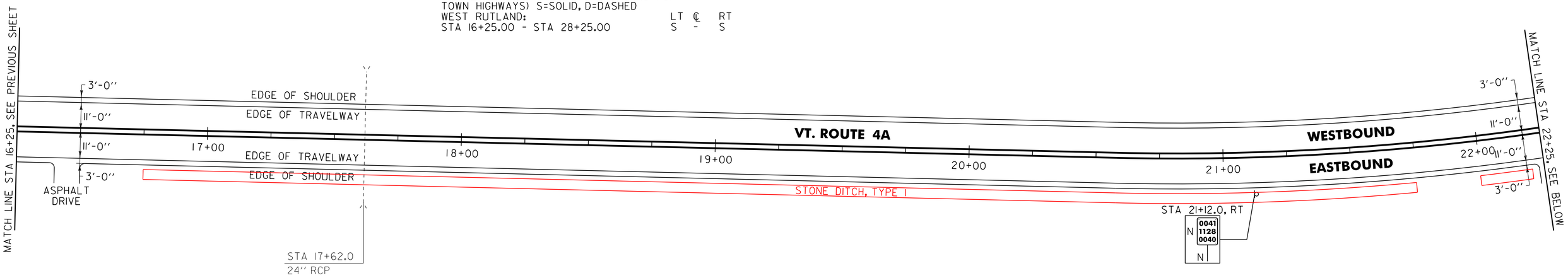
WEST RUTLAND:	LT	℄	RT
STA 16+25.00 - STA 28+25.00	S	-	S

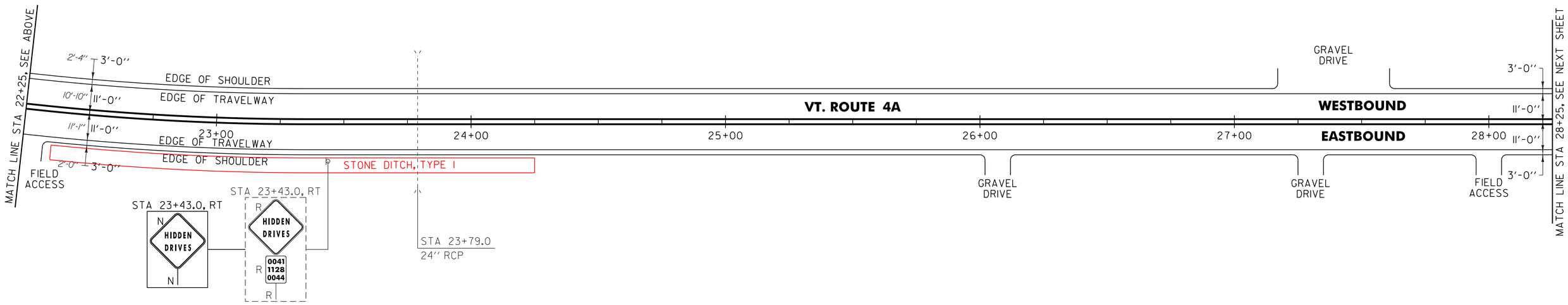
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
WEST RUTLAND:
STA 16+25.00 - STA 28+25.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

WEST RUTLAND:	LT	℄	RT
STA 16+25.00 - STA 28+25.00	S	-	S

675.50 REMOVING SIGNS
AS SHOWN - 2





NOT TO SCALE

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———

PROJECT LAYOUT SHEET #24

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68l24.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 45 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
WEST RUTLAND:
STA 28+25.00 - STA 40+25.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

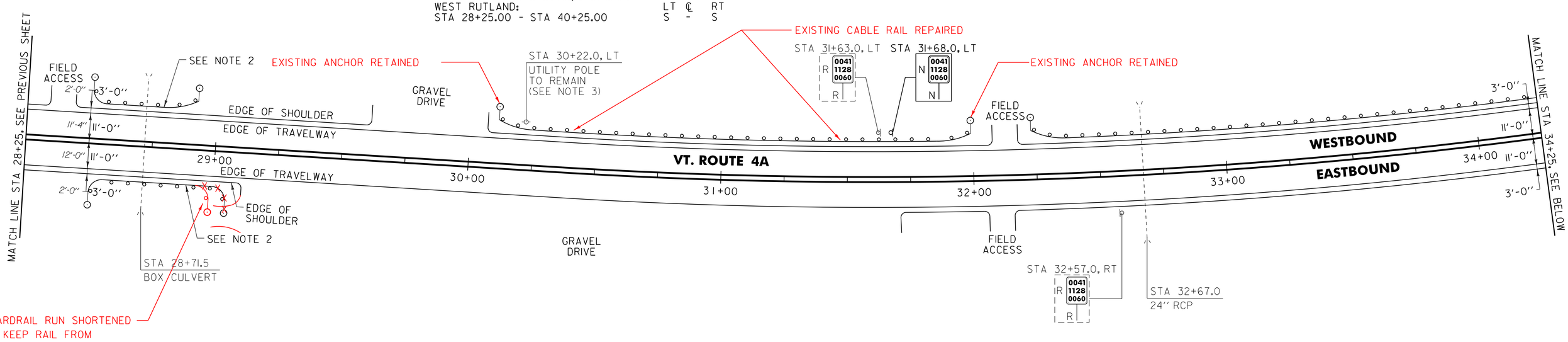
WEST RUTLAND:	LT	℄	RT
STA 28+25.00 - STA 40+25.00	S	-	S

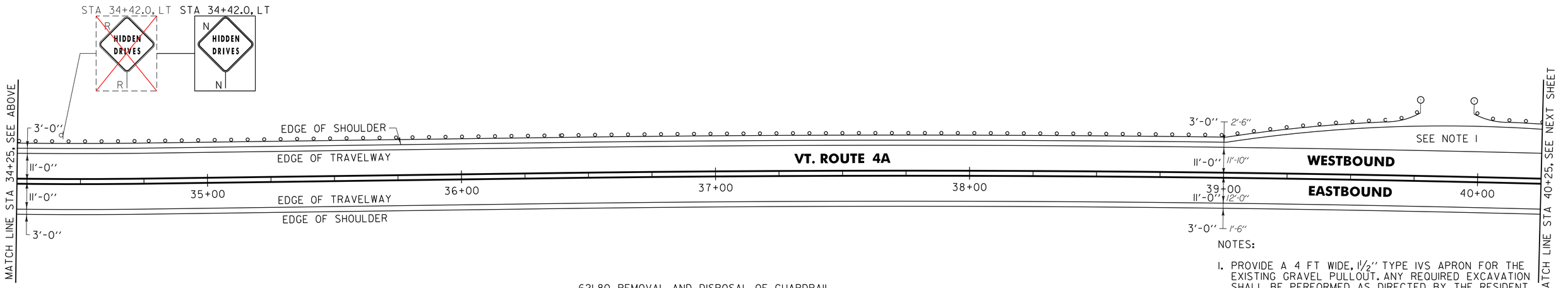
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
WEST RUTLAND:
STA 28+25.00 - STA 40+25.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

WEST RUTLAND:	LT	℄	RT
STA 28+25.00 - STA 40+25.00	S	-	S

675.50 REMOVING SIGNS
AS SHOWN - 3





621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
WEST RUTLAND:
STA 28+52.0 - STA 28+89.0 LT (37.0 LF)
STA 28+58.0 - STA 28+96.0 RT (38.0 LF)
~~STA 30+36.0 - STA 31+99.0 LT (163.0 LF)~~ EXISTING CABLE RAIL AND ANCHORS RETAINED AND REPAIRED
STA 32+25.0 - STA 39+73.0 LT (748.0 LF)
STA 40+00.0 - STA 40+25.0 LT (25.0 LF)

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
WEST RUTLAND:
STA 28+47.7 - STA 28+89.2 LT (41.5 LF)
STA 28+47.7 - STA 29+01.7 RT (54.0 LF)
STA 30+07.5 - STA 31+99.0 LT (206.5 LF)

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
WEST RUTLAND:
STA 32+23.0 - STA 39+77.0 LT (754.0 LF)
STA 39+98.0 - STA 40+25.0 LT (27.0 LF)

621.60 ANCHOR FOR STEEL BEAM RAIL

WEST RUTLAND:	WEST RUTLAND:
STA 28+54.2 RT	STA 32+38.0 LT
STA 28+54.2 LT	
STA 28+82.7 LT	
STA 28+95.2 RT	
~~STA 30+14.0 LT~~	EXISTING ANCHORS
~~STA 31+92.5 LT~~	RETAINED
STA 32+29.5 LT	
STA 39+70.5 LT	
STA 40+04.5 LT	

676.10 DELINEATOR WITH STEEL POST
WEST RUTLAND:
STA 28+47.7 RT
STA 28+53.9 LT
STA 28+95.4 LT
STA 29+01.7 RT
STA 30+07.5 LT
STA 31+99.0 LT
STA 32+23.0 LT
STA 39+77.0 LT
STA 39+98.0 LT

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———

NOTES:

1. PROVIDE A 4 FT WIDE, 1½" TYPE IVS APRON FOR THE EXISTING GRAVEL PULLOUT. ANY REQUIRED EXCAVATION SHALL BE PERFORMED AS DIRECTED BY THE RESIDENT ENGINEER AND PAID FOR UNDER ITEM 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I.
2. CONTRACTOR SHALL SPACE GUARDRAIL POSTS IN A MANNER THAT AVOIDS THE EXISTING CULVERT BELOW, AS DIRECTED BY THE RESIDENT ENGINEER.
3. SEE SHEET 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING AT UTILITY POLE DETAIL.

NOT TO SCALE

PROJECT LAYOUT SHEET #25

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)
FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68125.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 46 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
WEST RUTLAND:
STA 40+25.00 - STA 52+25.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

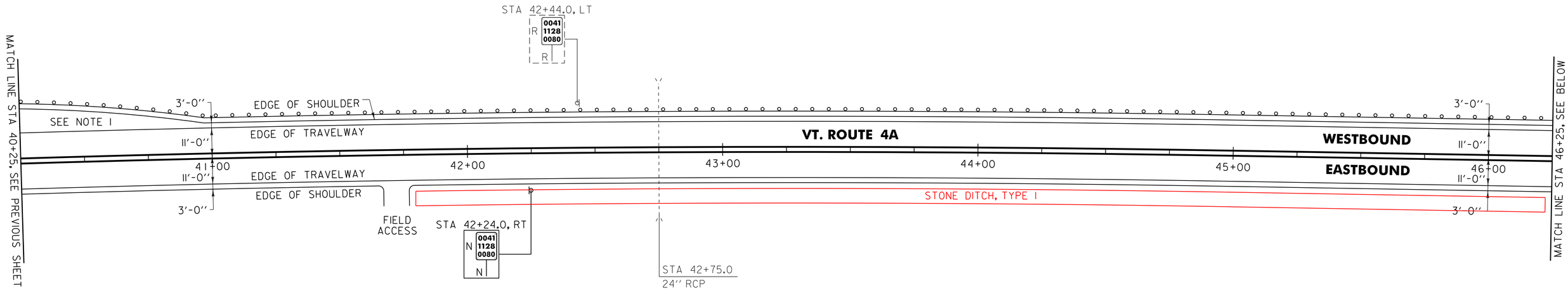
WEST RUTLAND:	LT	℄	RT
STA 40+25.00 - STA 52+25.00	S	-	S

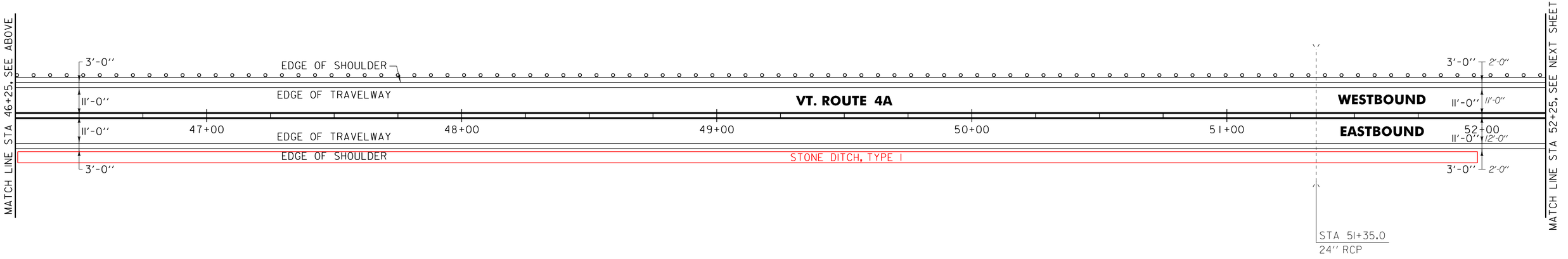
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
WEST RUTLAND:
STA 40+25.00 - STA 52+25.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

WEST RUTLAND:	LT	℄	RT
STA 40+25.00 - STA 52+25.00	S	-	S

675.50 REMOVING SIGNS
AS SHOWN - 1





NOT TO SCALE

621.205 STEEL BEAM GUARDRAIL W/8 FEET POSTS
WEST RUTLAND:
STA 40+25.0 - STA 52+25.0 LT (1200.0 LF)

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
WEST RUTLAND:
STA 40+25.0 - STA 52+25.0 LT (1200.0 LF)

NOTE:

1. PROVIDE A 4 FT WIDE, 1½" TYPE IVS APRON FOR THE EXISTING GRAVEL PULLOUT. ANY REQUIRED EXCAVATION SHALL BE PERFORMED AS DIRECTED BY THE RESIDENT ENGINEER AND PAID FOR UNDER ITEM 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I.

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ————————

PROJECT LAYOUT SHEET #26

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168126.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 47 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
WEST RUTLAND:
STA 52+25.00 - STA 63+25.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

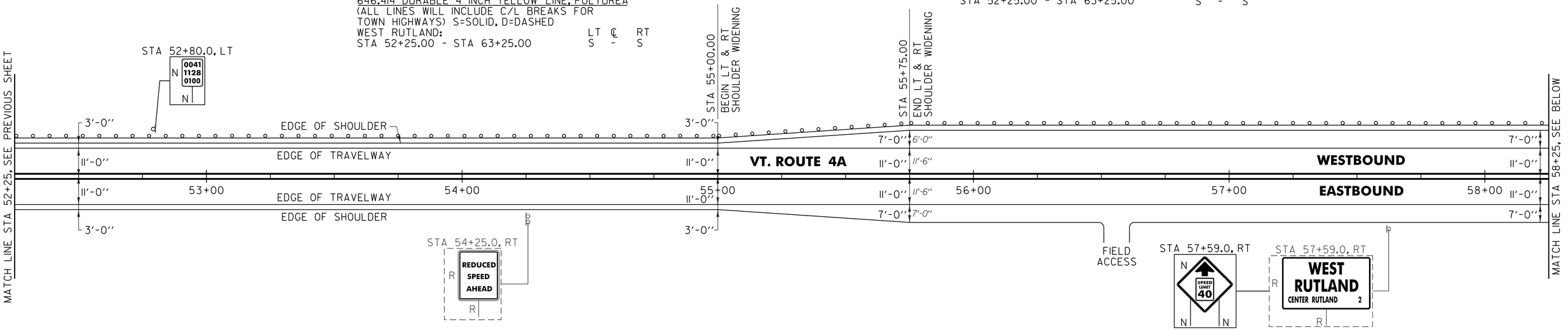
WEST RUTLAND:	LT	℄	RT
STA 52+25.00 - STA 63+25.00	S	-	S

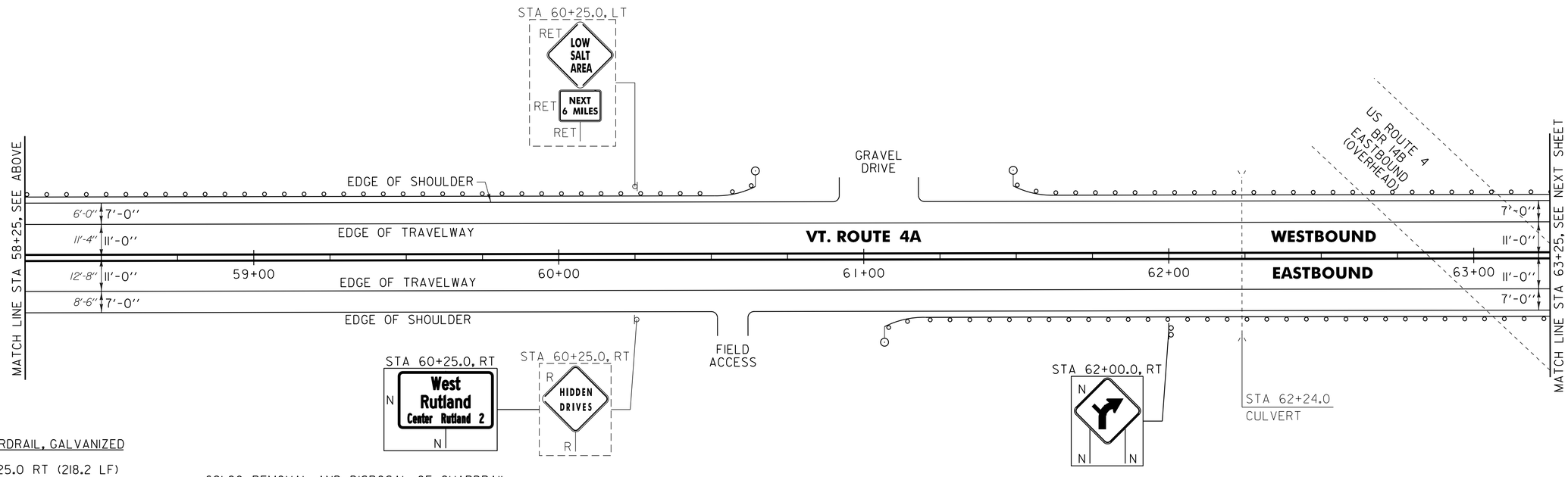
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
WEST RUTLAND:
STA 52+25.00 - STA 63+25.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

WEST RUTLAND:	LT	℄	RT
STA 52+25.00 - STA 63+25.00	S	-	S

675.50 REMOVING SIGNS
AS SHOWN - 3





621.20 STEEL BEAM GUARDRAIL, GALVANIZED
WEST RUTLAND:
STA 61+06.8 - STA 63+25.0 RT (218.2 LF)
STA 61+49.0 - STA 63+25.0 LT (176.0 LF)

621.205 STEEL BEAM GUARDRAIL W/8 FEET POSTS
CASTLETON:
STA 52+25.0 - STA 60+64.5 LT (839.5 LF)

621.60 ANCHOR FOR STEEL BEAM RAIL
WEST RUTLAND:
STA 60+58.0 LT
STA 61+13.3 RT
STA 61+55.5 LT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
WEST RUTLAND:
STA 52+25.0 - STA 60+57.0 LT (832.0 LF)
STA 61+05.0 - STA 63+25.0 RT (220.0 LF)
STA 61+51.0 - STA 63+25.0 LT (174.0 LF)

676.10 DELINEATOR WITH STEEL POST
WEST RUTLAND:
STA 60+64.5 LT
STA 61+06.8 RT
STA 61+49.0 LT

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———

NOT TO SCALE

PROJECT LAYOUT SHEET #27

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68127.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 48 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
WEST RUTLAND:
STA 63+25.00 - STA 69+25.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

WEST RUTLAND:	LT	℄	RT
STA 63+25.00 - STA 69+25.00	S	-	S
STA 64+99.68 DOUBLE SOLID LT, TH-4			

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
WEST RUTLAND:
STA 63+25.00 - STA 69+25.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

WEST RUTLAND:	LT	℄	RT
STA 63+25.00 - STA 69+25.00	S	-	S
STA 64+99.68 DOUBLE SOLID LT, TH-4			

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC OR
646.483 DURABLE 24 INCH STOP BAR, EPOXY PAINT OR
646.484 DURABLE 24 INCH STOP BAR, POLYUREA
WEST RUTLAND:
STA 64+99.68 LT TH-4

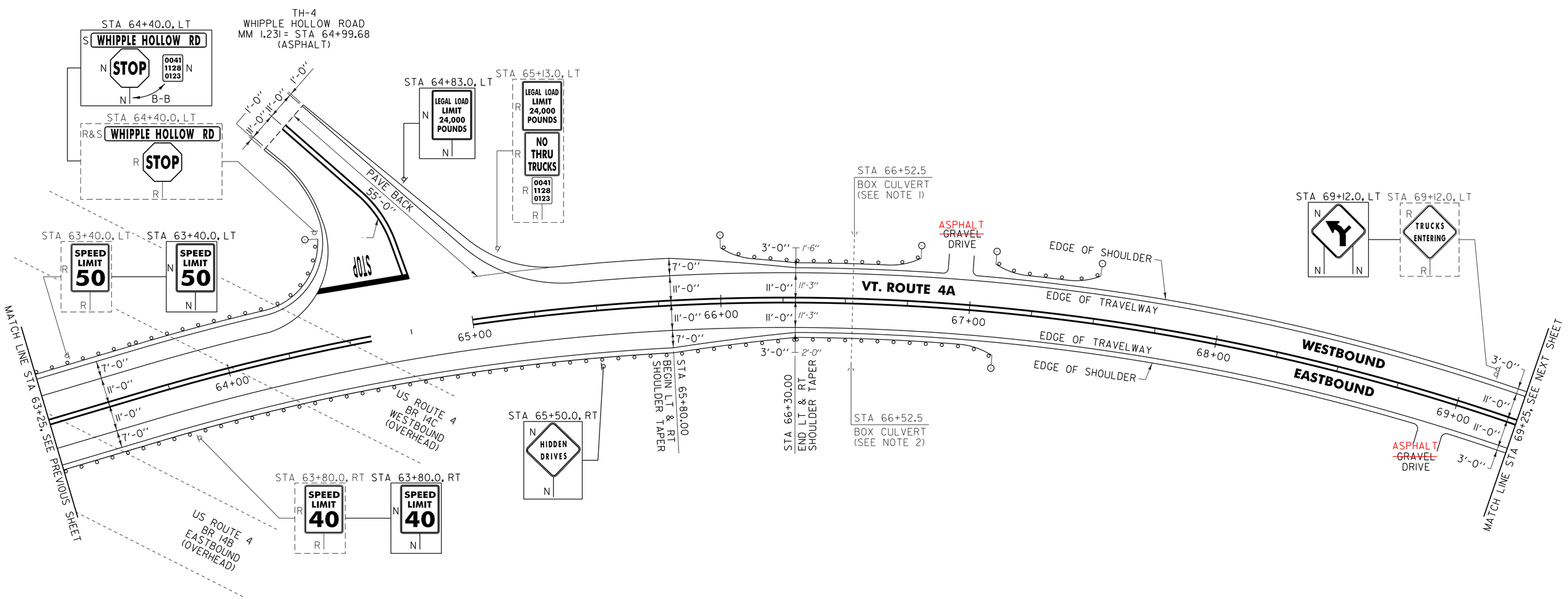
646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC OR
646.493 DURABLE LETTER OR SYMBOL, EPOXY PAINT
WEST RUTLAND:
STA 64+99.68 LT TH-4, "S,T,O,P" (4 EA)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
WEST RUTLAND:
STA 64+99.68 LT TH-4

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
WEST RUTLAND:
STA 64+99.68 LT TH-4, "S,T,O,P" (8 EA)

675.50 REMOVING SIGNS
AS SHOWN - 8

675.60 ERECTING SALVAGED SIGNS
AS SHOWN - 1



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
WEST RUTLAND:
STA 63+25.0 - STA 66+08.8 RT (283.8 LF)
STA 63+25.0 - STA 64+41.0 LT (128.0 LF)
STA 66+00.5 - STA 66+40.0 LT (39.5 LF)
STA 66+65.0 - STA 66+79.5 LT (14.5 LF)
STA 66+96.3 - STA 67+10.8 RT (14.5 LF)
STA 67+09.0 - STA 67+50.5 LT (41.5 LF)

621.216 HD STEEL BEAM GUARDRAIL, GALVANIZED/NESTED
WEST RUTLAND:
STA 66+08.8 - STA 66+96.3 RT (87.5 LF)
STA 66+40.0 - STA 66+65.0 LT (25.0 LF)

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
WEST RUTLAND:
STA 63+25.0 - STA 66+61.0 RT (336.0 LF)
STA 63+25.0 - STA 61+41.0 LT (126.0 LF)
STA 66+08.0 - STA 66+81.0 LT (73.0 LF)
STA 67+09.0 - STA 67+48.0 LT (39.0 LF)

621.60 ANCHOR FOR STEEL BEAM RAIL
WEST RUTLAND:
STA 64+34.5 LT
STA 66+07.0 LT
STA 66+73.0 LT
STA 67+04.3 RT
STA 67+15.5 LT
STA 67+44.0 LT

676.10 DELINEATOR WITH STEEL POST
WEST RUTLAND:
STA 64+41.0 LT
STA 66+00.5 LT
STA 66+79.5 LT
STA 67+09.0 LT
STA 67+10.8 RT
STA 67+50.5 LT

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ————

NOTES:
1. SEE SHEET 10 FOR STEEL BEAM GUARDRAIL AT SMALL CULVERT DETAIL.
2. SEE SHEET 9 FOR DOUBLE-NESTED GUARDRAIL SYSTEM.

NOT TO SCALE

PROJECT LAYOUT SHEET #28

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(1)
FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68128.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 49 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
WEST RUTLAND:
STA 69+25.00 - STA 81+25.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

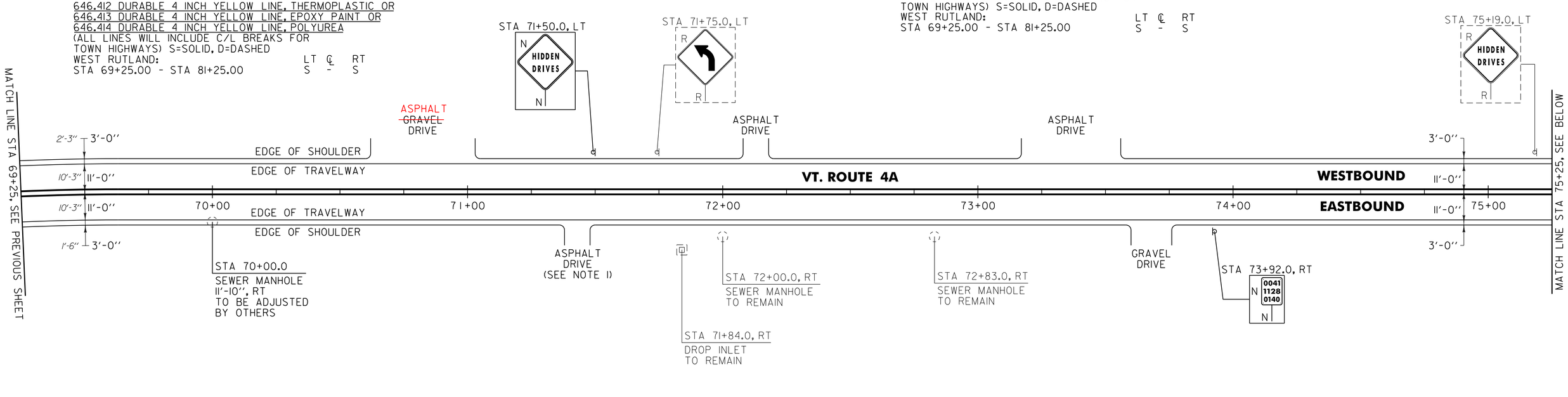
WEST RUTLAND:	LT	℄	RT
STA 69+25.00 - STA 81+25.00	S	-	S

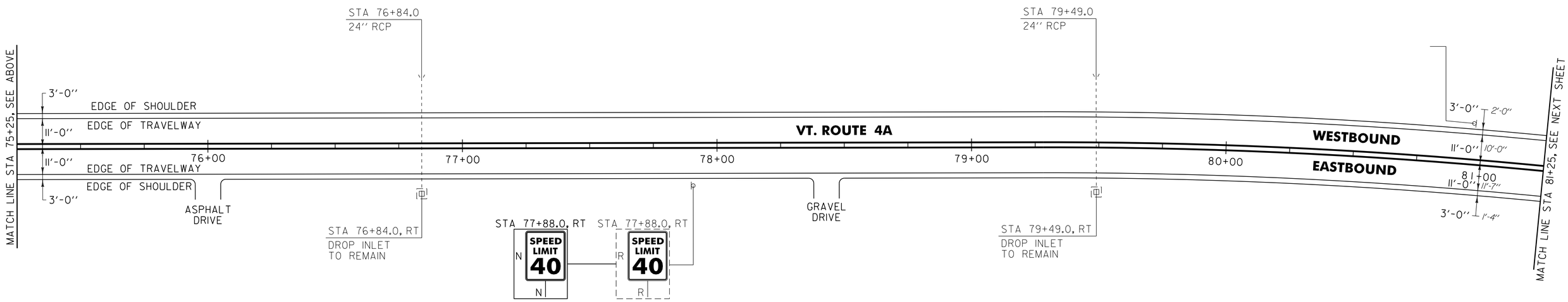
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
WEST RUTLAND:
STA 69+25.00 - STA 81+25.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

WEST RUTLAND:	LT	℄	RT
STA 69+25.00 - STA 81+25.00	S	-	S

675.50 REMOVING SIGNS
AS SHOWN - 4





NOTE:

1. THE CONTRACTOR SHALL PAVE THE EXISTING DRIVEWAY SO THAT DRAINAGE IS REDIRECTED TO THE EXISTING DI LOCATED AT STA 71+84.0 RT AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT WILL BE INCIDENTAL TO ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———

NOT TO SCALE

PROJECT LAYOUT SHEET #29

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68129.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 50 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
WEST RUTLAND:
STA 81+25.00 - STA 93+25.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

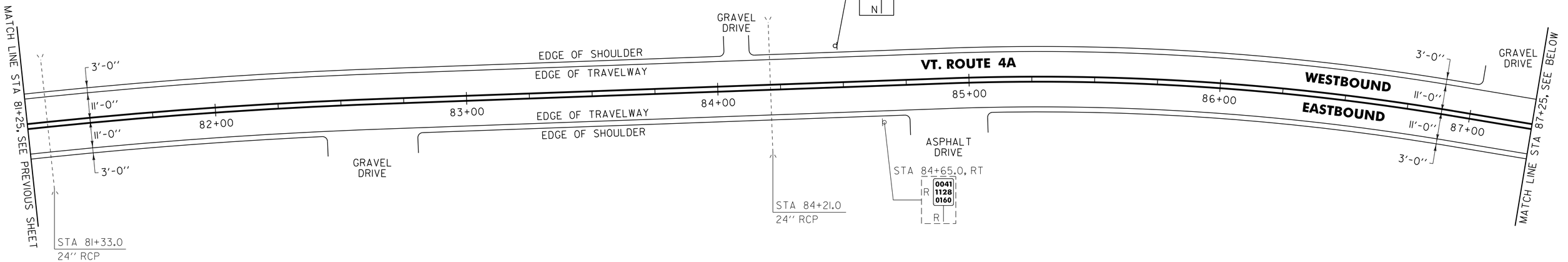
WEST RUTLAND:	LT	℄	RT
STA 81+25.00 - STA 93+25.00	S	-	S

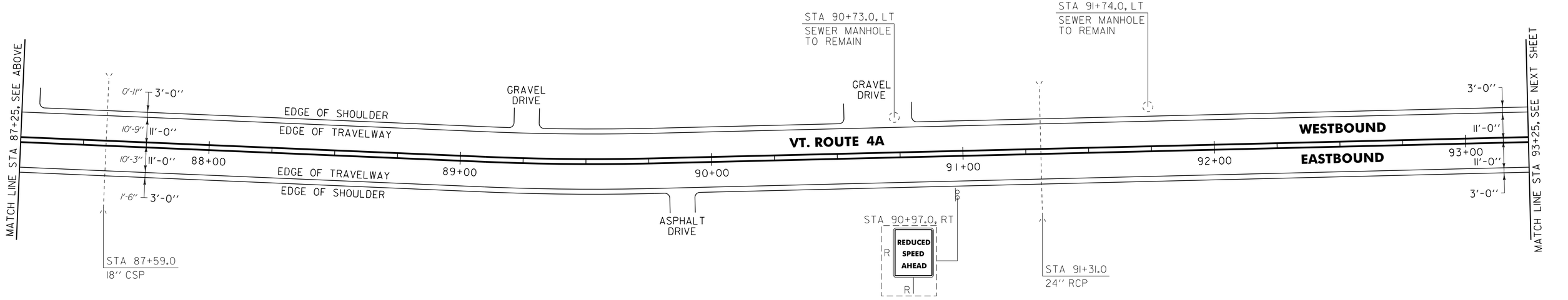
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
WEST RUTLAND:
STA 81+25.00 - STA 93+25.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

WEST RUTLAND:	LT	℄	RT
STA 81+25.00 - STA 93+25.00	S	-	S

675.50 REMOVING SIGNS
AS SHOWN - 2





NOT TO SCALE

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———————

PROJECT LAYOUT SHEET #30

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68130.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 51 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
WEST RUTLAND:
STA 93+25.00 - STA 94+93.44 EDGE LINE LT & RT

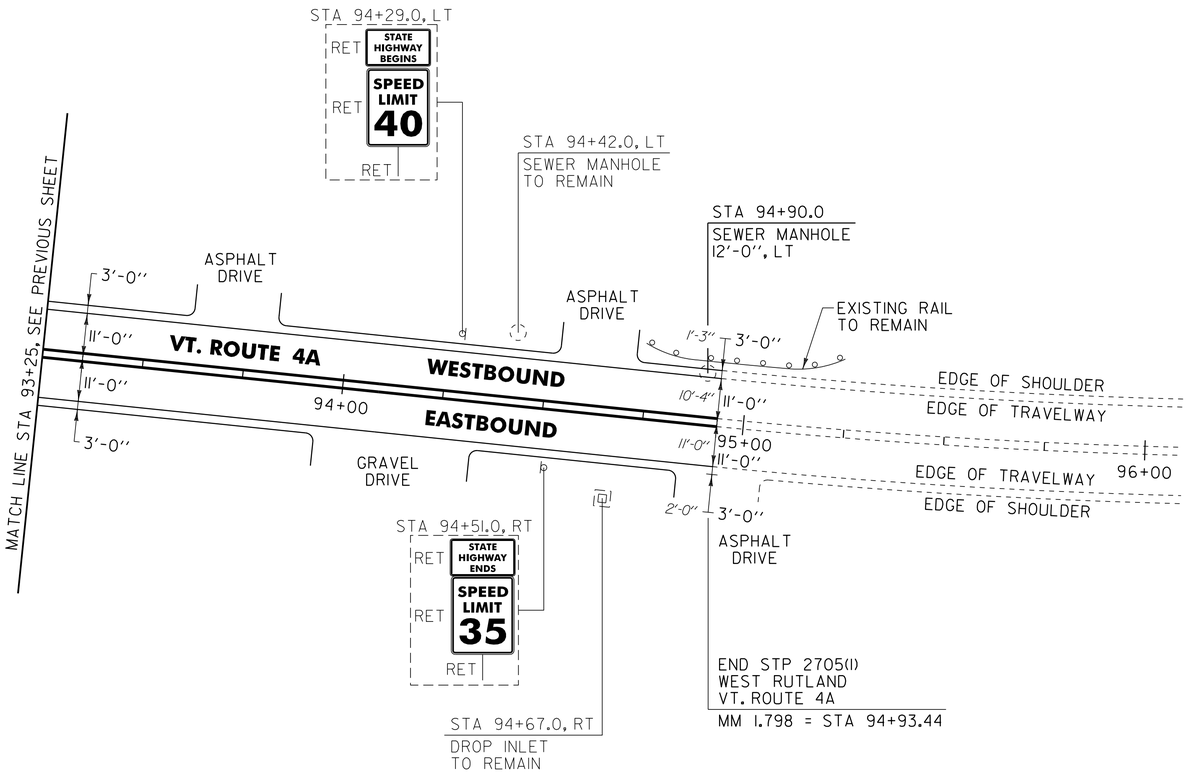
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

WEST RUTLAND:	LT	℄	RT
STA 93+25.00 - STA 94+93.44	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
WEST RUTLAND:
STA 93+25.00 - STA 94+93.44 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

WEST RUTLAND:	LT	℄	RT
STA 93+25.00 - STA 94+93.44	S	-	S



604.42 CHANGING ELEVATION OF SEWER MANHOLE
WEST RUTLAND:
STA 94+90.0 LT

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———————

NOT TO SCALE

PROJECT LAYOUT SHEET #31

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68131.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 52 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON STATE HIGHWAY:
STA 2+00.00 - STA 8+00.00 EDGE LINE LT & RT
STA 2+00.00 - STA 3+25.00 DOTTED LANE LINE LT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON STATE HIGHWAY:
STA 2+00.00 - STA 8+00.00 EDGE LINE LT & RT
STA 2+00.00 - STA 3+25.00 DOTTED LANE LINE LT

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC OR
646.493 DURABLE LETTER OR SYMBOL, EPOXY PAINT
CASTLETON STATE HIGHWAY:
STA 6+23.04 LT RAMP A, "S,T,O,P" (4 EA)
STA 6+23.04 LT RAMP A, "S,T,O,P" (4 EA)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
CASTLETON STATE HIGHWAY:
STA 6+23.04 LT RAMP A, "S,T,O,P" (8 EA)
STA 6+23.04 LT RAMP A, "S,T,O,P" (8 EA)

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON STATE HIGHWAY:	LT	℄	RT
STA 3+25.00 - STA 8+00.00		S - S	
STA 2+00.00 - STA 3+25.00 DOUBLE SOLID MEDIAN LT & RT			

646.462 DURABLE 12 INCH WHITE LINE, THERMOPLASTIC OR
646.463 DURABLE 12 INCH WHITE LINE, EPOXY PAINT OR
646.464 DURABLE 12 INCH WHITE LINE, POLYUREA
CASTLETON STATE HIGHWAY:
STA 6+23.04 HATCHED AREA LT, RAMP A

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON STATE HIGHWAY:	LT	℄	RT
STA 3+25.00 - STA 8+00.00		S - S	
STA 2+00.00 - STA 3+25.00 DOUBLE SOLID MEDIAN LT & RT			

646.452 DURABLE 8 INCH YELLOW LINE, THERMOPLASTIC OR
646.453 DURABLE 8 INCH YELLOW LINE, EPOXY PAINT OR
646.454 DURABLE 8 INCH YELLOW LINE, POLYUREA
CASTLETON STATE HIGHWAY:
STA 2+00.00 - STA 3+25.00 MEDIAN HATCHING LT & RT

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC OR
646.483 DURABLE 24 INCH STOP BAR, EPOXY PAINT OR
646.484 DURABLE 24 INCH STOP BAR, POLYUREA
CASTLETON:
STA 6+23.04 LT RAMP A
STA 6+23.04 LT RAMP A

646.512 DURABLE RAILROAD CROSSING SYMBOL, THERMOPLASTIC OR
646.513 DURABLE RAILROAD CROSSING SYMBOL, EPOXY PAINT
CASTLETON STATE HIGHWAY:
STA 2+06.0 RT (1EA)
STA 5+75.0 LT (1EA)

646.712 TEMPORARY RAILROAD CROSSING SYMBOL, PAINT
CASTLETON STATE HIGHWAY:
STA 2+06.0 RT (2 EA)
STA 5+75.0 LT (2 EA)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
CASTLETON:
STA 6+23.04 LT RAMP A
STA 6+23.04 LT RAMP A

675.50 REMOVING SIGNS
AS SHOWN - 2

675.60 ERECTING SALVAGED SIGNS
AS SHOWN - 1

525.10 REMOVAL OF EXISTING RAIL
CASTLETON STATE HIGHWAY:
STA 3+79.5 - STA 4+54.5 LT (75.0 LF)
STA 3+84.5 - STA 4+59.5 RT (75.0 LF)

525.55 BRIDGE RAILING REPAIR, TYPE II
CASTLETON STATE HIGHWAY:
STA 3+79.5 - STA 4+54.5 LT (75.0 LF)
STA 3+84.5 - STA 4+59.5 RT (75.0 LF)

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
CASTLETON STATE HIGHWAY:
STA 3+65.0 - STA 3+79.5 LT (14.5 LF)
STA 3+73.0 - STA 3+84.5 RT (28.5 LF)
STA 4+79.5 - STA 6+06.5 LT (127.0 LF)
STA 4+84.5 - STA 5+99.0 RT (114.5 LF)
STA 6+93.0 - STA 8+00.0 LT (107.0 LF)
STA 7+03.0 - STA 8+00.0 RT (97.0 LF)

621.21 HD STEEL BEAM GUARDRAIL, GALVANIZED
CASTLETON STATE HIGHWAY:
STA 4+54.5 - STA 4+79.5 LT (32.5 LF)
STA 4+59.5 - STA 4+84.5 RT (32.5 LF)

621.60 ANCHOR FOR STEEL BEAM RAIL
CASTLETON STATE HIGHWAY:
STA 3+71.5 LT
~~STA 3+73.0 RT~~
STA 3+73.0 RT
STA 5+92.5 RT
STA 6+00.0 LT
STA 6+99.5 LT
STA 7+09.5 RT

646.422 DURABLE 6 INCH WHITE LINE, THERMOPLASTIC OR
646.423 DURABLE 6 INCH WHITE LINE, EPOXY PAINT OR
646.424 DURABLE 6 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON STATE HIGHWAY:
STA 6+23.04 LT, RAMP A EDGE LINE
STA 6+23.04 RT, RAMP D EDGE LINE

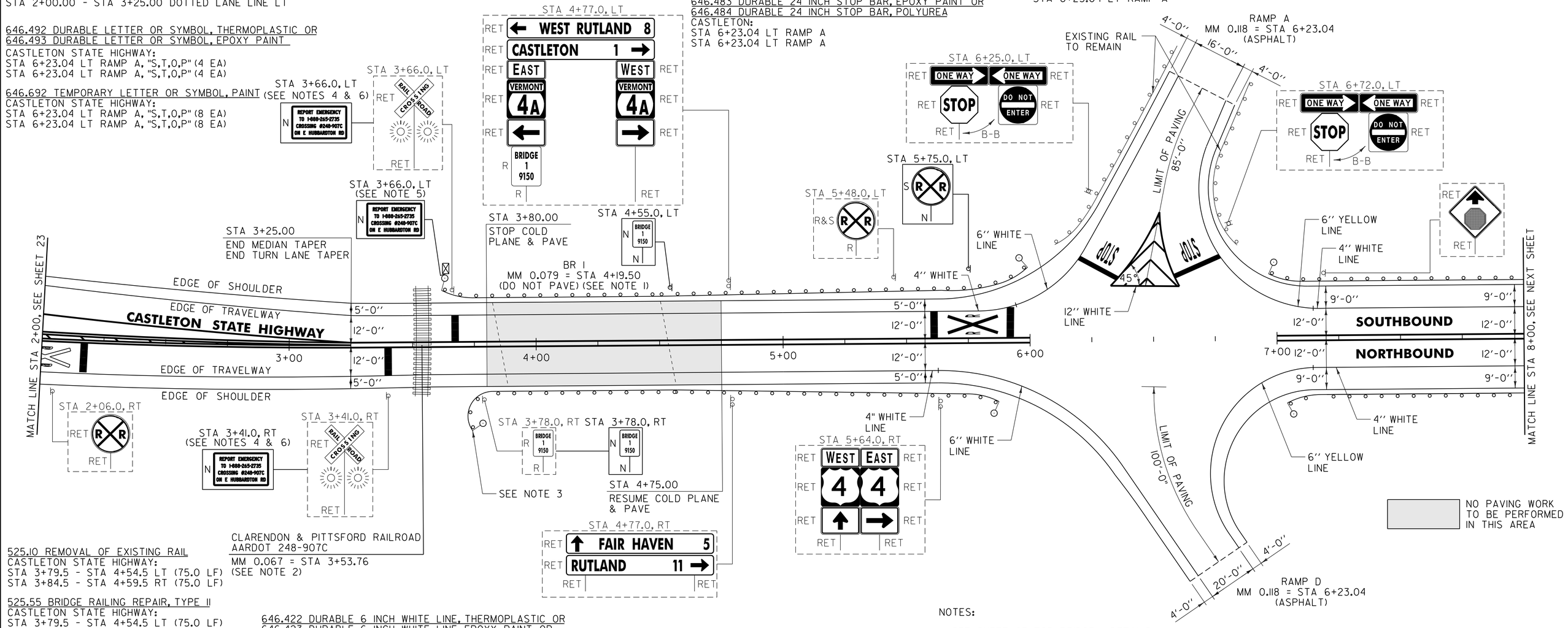
621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
CASTLETON STATE HIGHWAY:
STA 3+62.0 - STA 3+79.5 LT (17.5 LF)
STA 3+73.0 - STA 3+84.5 RT (11.5 LF)
STA 4+54.5 - STA 6+01.0 LT (150.0 LF)
STA 4+59.5 - STA 5+91.0 RT (135.0 LF)
STA 6+97.0 - STA 8+00.0 LT (103.0 LF)
STA 7+04.0 - STA 8+00.0 RT (96.0 LF)

676.10 DELINEATOR WITH STEEL POST
CASTLETON STATE HIGHWAY:
STA 3+65.0 LT
STA 3+73.0 RT
STA 5+99.0 RT
STA 6+06.5 LT
STA 6+93.0 LT
STA 7+03.0 RT

646.432 DURABLE 6 INCH YELLOW LINE, THERMOPLASTIC OR
646.433 DURABLE 6 INCH YELLOW LINE, EPOXY PAINT OR
646.434 DURABLE 6 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON STATE HIGHWAY:
STA 6+23.04 LT, RAMP A EDGE LINE
STA 6+23.04 RT, RAMP D EDGE LINE

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON STATE HIGHWAY:
STA 6+23.04 LT, RAMP A EDGE LINE
STA 6+23.04 RT, RAMP D EDGE LINE

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON STATE HIGHWAY:
STA 6+23.04 LT, RAMP A EDGE LINE
STA 6+23.04 RT, RAMP D EDGE LINE



NOTES:

1. SEE SHEET 85 FOR BRIDGE 1 DETAILS.
2. SEE SHEETS 87 THRU 89 FOR CLARENDON & PITTSFORD RAILROAD AARDOT 248-907C GRADE CROSSING DETAIL SHEETS.
3. THE CONTRACTOR SHALL INSTALL A NEW 16' RADIUS PANEL WITH ANCHORS AT EACH END AS DIRECTED BY THE RESIDENT ENGINEER. ONLY ONE ANCHOR INSTALLED DUE TO INSUFFICIENT AREA TO INSTALL TWO PER RE.
4. PROPOSED EMERGENCY CONTACT SIGN SHALL BE MOUNTED ON THE EXISTING CROSSING SIGNAL AS DIRECTED BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL COORDINATE THE SIGN INSTALLATION WITH THE RAILROAD.
5. PROPOSED EMERGENCY CONTACT SIGN SHALL BE MOUNTED TO EXISTING SIGNAL CASE AS DIRECTED BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL COORDINATE THE SIGN INSTALLATION WITH THE RAILROAD.
6. A STRIP OF RETROREFLECTIVE WHITE MATERIAL NOT LESS THAN 2 INCHES WIDE SHALL BE USED ON THE BACK OF EACH BLADE OF THE CROSSBUCK SIGN FOR THE ENTIRE LENGTH OF EACH BLADE PER MUTCD SECTION 8B.03. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE SIGN WITH THE RAILROAD.

NOT TO SCALE

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———

PROJECT LAYOUT SHEET #32

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn	PLOT DATE: 04-JUN-2013 09:5
PROJECT LEADER: D.E.G.	DRAWN BY: W.G.P.
DESIGNED BY: M.J.M.	CHECKED BY: D.E.G.
IPARM FILE: p07cl68i32.i	SHEET 53 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON STATE HIGHWAY:
STA 8+00.00 - STA 13+50.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

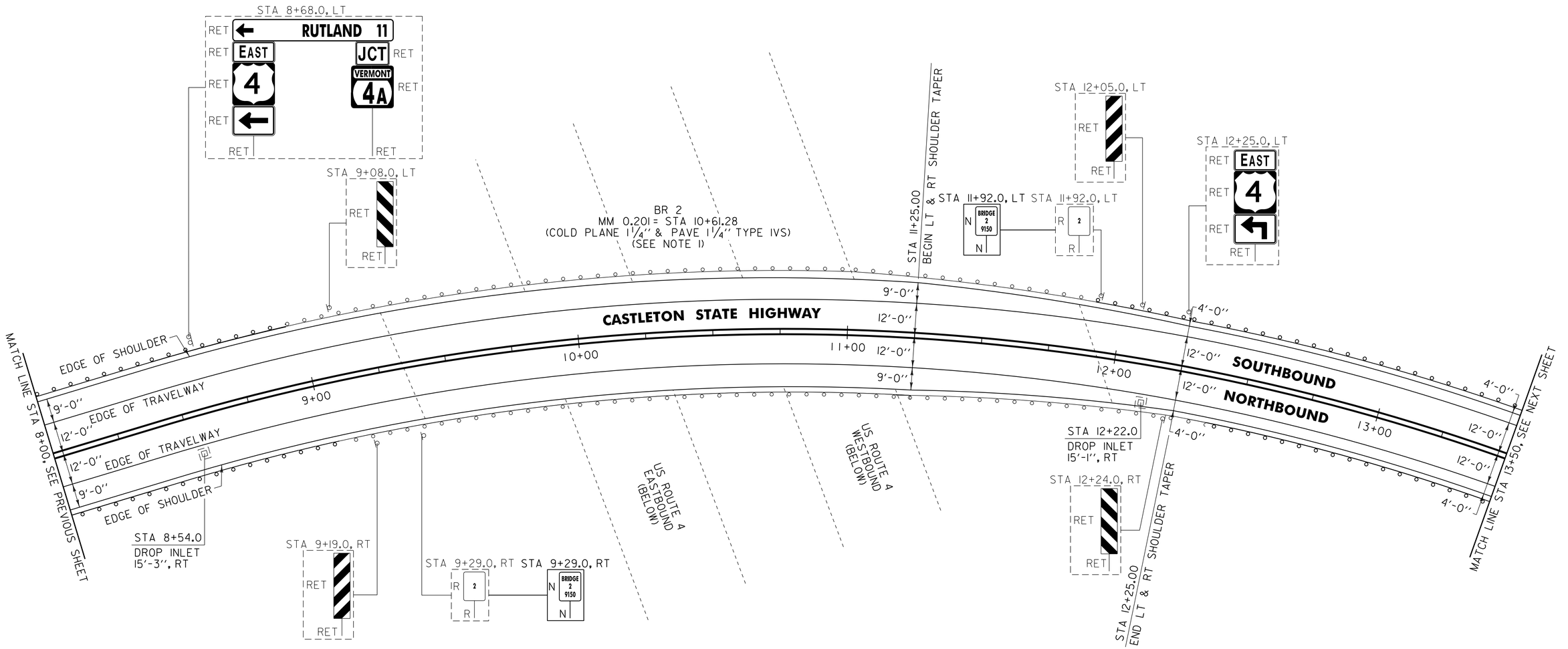
CASTLETON STATE HIGHWAY:	LT	℄	RT
STA 8+00.00 - STA 13+50.00	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON STATE HIGHWAY:
STA 8+00.00 - STA 13+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON STATE HIGHWAY:	LT	℄	RT
STA 8+00.00 - STA 13+50.00	S	-	S

675.50 REMOVING SIGNS
AS SHOWN - 2



NOTES:

1. SEE SHEET 86 FOR BR 2 DETAILS.
2. THE CONTRACTOR SHALL REHAB. THE EXISTING DROP INLETS, CATCH BASINS OR MANHOLES TO A DEPTH AS DIRECTED BY THE RESIDENT ENGINEER. ALL REHAB. WORK WILL BE PAID FOR UNDER THE APPLICABLE REHAB. ITEM AS DIRECTED BY THE RESIDENT ENGINEER. ALL EXISITNG UTILITIES MARKED "TO REMAIN" SHALL NOT BE ALTERED OR REHABILITATED UNLESS DIRECTED OTHERWISE BY THE RESIDENT ENGINEER.

621.60 ANCHOR FOR STEEL BEAM RAIL
CASTLETON STATE HIGHWAY:

STA 8+90.0 LT	STA 9+00.0 RT
STA 12+25.0 RT	STA 12+25.0 LT

604.412, 604.415, 604.418 REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES CLASS I, II, OR III (SEE NOTE 2)
CASTLETON STATE HIGHWAY:
STA 8+54. RT
STA 12+22.0 RT

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
CASTLETON STATE HIGHWAY:
STA 8+00.0 - STA 8+95.0 LT (95.0 LF)
STA 8+00.0 - STA 9+05.0 RT (105.0 LF)
STA 12+17.0 - STA 13+50.0 LT (133.0 LF)
STA 12+38.0 - STA 13+50.0 RT (112.0 LF)

621.74 ALUMINUM APPROACH RAILING
CASTLETON STATE HIGHWAY:
STA 11+89.8 - STA 12+17.0 LT (27.2 LF)

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
CASTLETON STATE HIGHWAY:
STA 8+00.0 - STA 9+05.0 RT (105.0 LF)
STA 8+00.0 - STA 8+95.0 LT (95.0 LF)
STA 11+89.8 - STA 13+50.0 LT (160.2 LF)
STA 12+38.0 - STA 13+50.0 RT (112.0 LF)

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ————

NOT TO SCALE

PROJECT LAYOUT SHEET #33

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68133.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 54 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON STATE HIGHWAY:
STA 13+50.00 - STA 19+50.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON STATE HIGHWAY:	LT	℄	RT
STA 13+50.00 - STA 19+50.00	S	-	S

646.422 DURABLE 6 INCH WHITE LINE, THERMOPLASTIC OR
646.423 DURABLE 6 INCH WHITE LINE, EPOXY PAINT OR
646.424 DURABLE 6 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON STATE HIGHWAY:
STA 18+42.79 RT, RAMP B EDGE LINE
STA 18+77.37 RT, RAMP C EDGE LINE

646.432 DURABLE 6 INCH YELLOW LINE, THERMOPLASTIC OR
646.433 DURABLE 6 INCH YELLOW LINE, EPOXY PAINT OR
646.434 DURABLE 6 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON STATE HIGHWAY:
STA 18+42.79 RAMP B, MEDIAN EDGE LINE RT
STA 18+77.37 RAMP C, MEDIAN EDGE LINE RT

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC OR
646.483 DURABLE 24 INCH STOP BAR, EPOXY PAINT OR
646.484 DURABLE 24 INCH STOP BAR, POLYUREA
CASTLETON STATE HIGHWAY:
STA 18+69.12 RT RAMP C

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC OR
646.493 DURABLE LETTER OR SYMBOL, EPOXY PAINT
CASTLETON STATE HIGHWAY:
STA 18+77.77 RT RAMP C, "S,T,O,P" (4 EA)

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON STATE HIGHWAY:
STA 13+50.00 - STA 19+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON STATE HIGHWAY:	LT	℄	RT
STA 13+50.00 - STA 19+50.00	S	-	S

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON STATE HIGHWAY:
STA 18+42.79 RAMP B, EDGE LINE RT
STA 18+77.37 RAMP C, EDGE LINE RT

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
CASTLETON STATE HIGHWAY:
STA 18+69.12 RT RAMP C

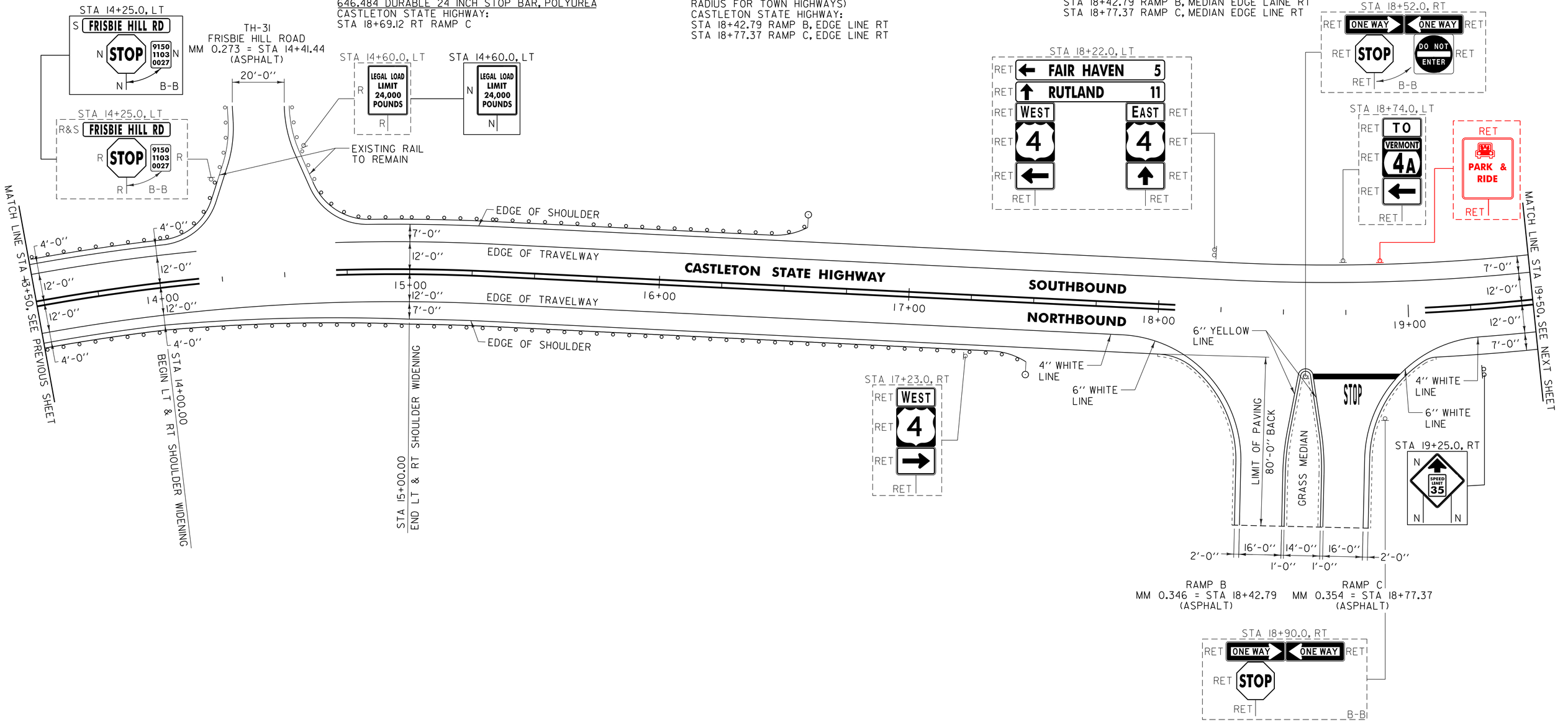
646.492 TEMPORARY LETTER OR SYMBOL, PAINT
CASTLETON STATE HIGHWAY:
STA 18+77.77 RT RAMP C, "S,T,O,P" (8 EA)

646.81 PAINTED CURB
CASTLETON STATE HIGHWAY:
STA 18+42.79 RAMP B, RT (60.0 LF)
STA 18+77.37 RAMP C, RT (60.0 LF)

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON STATE HIGHWAY:
STA 18+42.79 RAMP B, MEDIAN EDGE LAINE RT
STA 18+77.37 RAMP C, MEDIAN EDGE LINE RT

675.50 REMOVING SIGNS
AS SHOWN - 4

675.60 ERECTING SALVAGED SIGNS
AS SHOWN - 1



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
CASTLETON STATE HIGHWAY:
STA 13+50.0 -STA 14+17.0 LT (104.5 LF)
STA 13+50.0 - STA 17+52.5 RT (402.5 LF)
STA 14+70.0 - STA 16+59.5 LT (227.0 LF)

621.60 ANCHOR FOR STEEL BEAM RAIL
CASTLETON STATE HIGHWAY:
STA 16+53.0 LT
STA 17+46.0 RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
CASTLETON STATE HIGHWAY:
STA 13+50.0 - STA 14+17.0 LT (104.5 LF)
STA 13+50.0 - STA 17+43.0 RT (393.0 LF)
STA 14+70.0 - STA 16+58.0 LT (225.5 LF)

676.10 DELINEATOR WITH STEEL POST
CASTLETON STATE HIGHWAY:
STA 16+59.5 LT
STA 17+52.5 RT

NOTE:

1. PAVING LIMIT ON ALL TOWN HIGHWAYS SHALL BE MEASURED 25 FT BACK FROM CASTLETON STATE HIGHWAY EDGE OF SHOULDER UNLESS DENOTED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ———

NOT TO SCALE

PROJECT LAYOUT SHEET #34

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68I34.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 55 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 19+50.00 - STA 21+43.68 EDGE LINE LT & RT

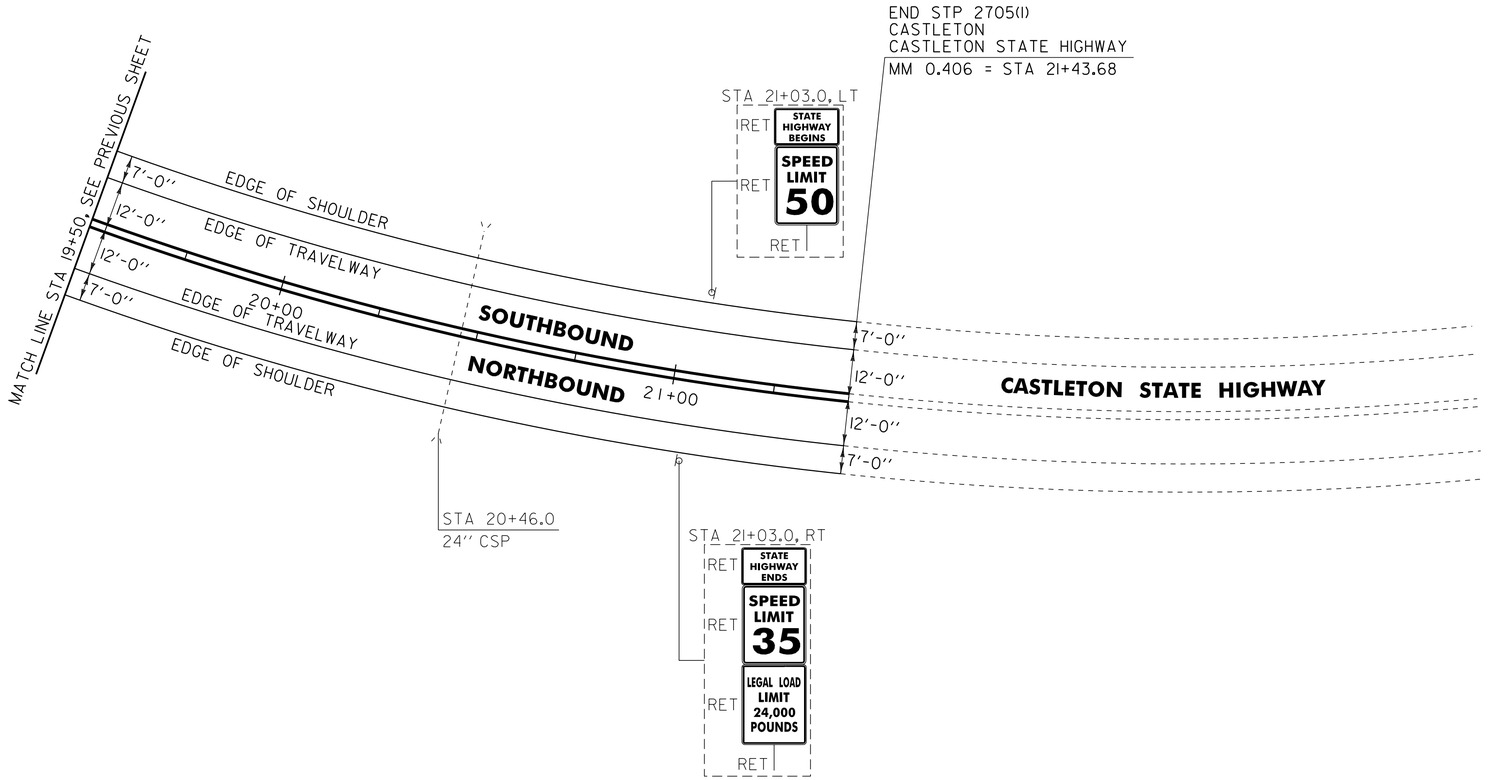
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 19+50.00 - STA 21+43.68	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 19+50.00 - STA 21+43.68 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 19+50.00 - STA 21+43.68	S	-	S



NOT TO SCALE

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———————

PROJECT LAYOUT SHEET #35

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68135.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 56 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 1

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	FOUNDATION	TUBULAR STEEL Ø (in) lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
CASTLETON: 203+49.1, LT	STATE HIGHWAY ENDS	1	24	18	3.00						1					~~X~~ 15' 3"		X															SIGN ID CODE VR-038			E-141
	SPEED LIMIT 30	1	24	30	5.00																												SIGN ID CODE R2-1	X		
203+49.1, RT	STATE HIGHWAY BEGINS	1	24	18	3.00						1					~~X~~ 14' 9"		X																	SIGN ID CODE VR-039			E-141
	SPEED LIMIT 50	1	24	18	5.00																												SIGN ID CODE R2-1	X		
	0041 1103 0385	1	6	10	0.42																												SIGN ID CODE VD-700			E-138
	BRIDGE 7 VT 4A	1	6	8	0.33																												SIGN ID CODE VD-701			E-134
203+70.0, RT		1	12	36	3.00						1					~~X~~ 15' 6"		X																	SIGN ID CODE OM3-R	X		
203+70.0, LT		1	12	36	3.00						1					~~X~~ 10' 6"		X																	SIGN ID CODE OM3-L	X		
204+58.0, LT		1	12	36	3.00						1					~~X~~ 10' 2"		X																	SIGN ID CODE OM3-R	X		
204+58.0, RT		1	12	36	3.00						1					~~X~~ 10' 7"		X																	SIGN ID CODE OM3-L	X		
204+67.0, LT	BRIDGE 7 VT 4A	1	6	8	0.33						1					~~X~~ 6' 5"		X																	SIGN ID CODE VD-701			E-134
												LF	LF	LF	LF	LF	LF		EA.	LB	LB	LB		LB	LB	LB	LB									
															~~14~~ 6.42	~~84~~ 71.75																					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TOTALS	SF	SF	EA.	SF		LF	LF	LB	EA.	LB	EA.	EA.	LB
	29.08						~~98~~ 78.17						

TRAFFIC SIGN SUMMARY SHEET #1

PROJECT NAME: CASTLETON - WEST RUTLAND

PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168tssl.i

PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 57 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 2

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST POST		NEW SIGN POSTS																		SIGN DETAIL		
		EA	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN	SALV TIS	RETAIN	SALVAGE	NO. OF POSTS	FLANGED CHANNEL lb/ft			SQUARE STEEL (in) lb/ft			ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft			FOUND-ATION	TUBULAR STEEL Ø (in) lb/ft				W-SHAPE STEEL FTG. SIZE		WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
															1.75	2.0	2.5			3.0	4.0	4.0 MOD		3.0	3.5	4.0	5.0	24"	30"							
												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									
CASTLETON: 205+50.0, RT	TO	1	24	12	2.00						1					~~X~~ 16' 3"		X															X		
	4	1	24	24	4.00																											SIGN ID CODE MI-4	X		
		1	21	15	2.19																											SIGN ID CODE M5-IL	X		
205+58.0, LT	Castleton Castleton Cors 2	1	30	18	3.75						1					~~X~~ 13' 3"		X															SIGN ID CODE D3-5		74	
207+00.0, LT	SPEED LIMIT 30	1	36	36	9.00						2					14' 10" ~~X~~ 14' 6"		X															SIGN ID CODE W3-5	X		
208+75.0, LT	Castleton 1 Fair Haven 5	1 1	72 72	12 12	6.00 6.00						2					14' 0" ~~X~~ 13' 3"		X															SIGN ID CODE DI-1A SIGN ID CODE DI-1A		74 74	
~~209+00.0,~~ RT 208+90.0	West Rutland 8 Rutland 11	1 1	72 72	12 12	6.00 6.00						2					14' 6" ~~X~~ 13' 6"		X															SIGN ID CODE DI-1A MOVED AS PER SIGN ID CODE DI-1A C. WILLIAMS		74 74	
210+00.0, RT	ONLY	1	30	30	6.25						1					~~X~~ 14' 3"		X															SIGN ID CODE VR-92I			E-145A
210+00.0, LT	WEST	1	24	12	2.00						1					~~X~~ 14' 0"		X															SIGN ID CODE M3-4			E-136B
	VERMONT 4A	1	24	24	4.00																											SIGN ID CODE MI-4			E-136B
TOTALS		SF 57.19	SF	EA.	SF							LF	LF	LF	LF	LF ~~140~~ 142.33	LF	EA.		LB	LB	LB	EA.	LB	LB	LB	LB	EA.	EA.	LB						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TRAFFIC SIGN SUMMARY SHEET #2

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168tss2.i

PLOT DATE: 04-JUN-2013 09:15
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 58 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 3

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	FLANGED CHANNEL lb/ft 2.0	FLANGED CHANNEL lb/ft 3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	SQUARE STEEL (in) lb/ft 2.0 2.42	SQUARE STEEL (in) lb/ft 2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	TUBULAR ALUMINUM Ø (in) lb/ft 4.0 1.7	TUBULAR ALUMINUM Ø (in) lb/ft 4.0 MOD 1.7	TUBULAR STEEL Ø (in) FOUNDATION	TUBULAR STEEL Ø (in) lb/ft 3.0 7.6	TUBULAR STEEL Ø (in) lb/ft 3.5 9.0	TUBULAR STEEL Ø (in) lb/ft 4.0 10.8	TUBULAR STEEL Ø (in) lb/ft 5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	W-SHAPE STEEL FTG. SIZE 30"	W-SHAPE STEEL WEIGHT	W-SHAPE STEEL POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	SIGN DETAIL DETAIL ON DWG. NUMBER	SIGN DETAIL STD. SHEET NUMBER
CASTLETON: 211+00.0, RT	TO EAST	1	24	12	2.00						2					16' 6" ✕ 16' 6"		X													X	SIGN ID CODE M4-5	X		
		1	24	12	2.00																											SIGN ID CODE M3-2			E-136B
	4 VERMONT 4A	1	24	24	4.00																											SIGN ID CODE MI-4	X		
		1	24	24	4.00																											SIGN ID CODE MI-4			E-136B
		1	21	15	2.19																											SIGN ID CODE M6-IL	X		
		1	21	15	2.19																											SIGN ID CODE M6-3			E-136B
	PARK & RIDE						*1																									*SALVAGE "PARK & RIDE"			
212+50.0, RT	EAST	1	24	12	2.00						1					✕ 14' 0"		X														SIGN ID CODE M3-2			E-136B
	VERMONT 4A	1	24	24	4.00																											SIGN ID CODE MI-4			E-136B
212+50.0, LT	WEST TO	1	24	12	2.00						2					18' 6" ✕ 18' 0"		X													X	SIGN ID CODE M3-4	X		
		1	24	24	4.00																											SIGN ID CODE M4-5			E-136B
	4 VERMONT 4A	1	24	24	4.00																											SIGN ID CODE MI-4	X		
		1	24	24	4.00																											SIGN ID CODE MI-4			E-136B
		1	21	15	2.19																											SIGN ID CODE M6-3	X		
		1	21	15	2.19																											SIGN ID CODE M6-IR			E-136B
	PARK & RIDE						*1																									*SALVAGE "PARK & RIDE"			
~~214+50.0, LT~~ 215+65.0	↑ Castleton 1	1	72	12	6.00						2					14' 0" ✕ 14' 6"		X														SIGN ID CODE DI-IA MOVED AS PER C.W.		74	
	↑ Fair Haven 5	1	72	12	6.00																											SIGN ID CODE DI-IA		74	
	Rutland 11 →	1	72	12	6.00																											SIGN ID CODE DI-IA		74	
215+50.0, RT	West Rutland 8	1	72	12	6.00						2					12' 6" ✕ 13' 3"		X														SIGN ID CODE DI-IA		74	
												LF	LF	LF	LF	LF ~~126~~ 137.75'	LF		EA.	LB	LB	LB		LB	LB	LB	LB								
TOTALS			SF 62.76	SF	EA. 2	SF						LF			LF ~~126~~ 137.75'					LB			EA.	LB				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TRAFFIC SIGN SUMMARY SHEET #3

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68tss3.i

PLOT DATE: 04-JUN-2013 09:15
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 59 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 4

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	FLANGED CHANNEL lb/ft 2.0	FLANGED CHANNEL lb/ft 3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	SQUARE STEEL (in) lb/ft 2.0 2.42	SQUARE STEEL (in) lb/ft 2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	TUBULAR ALUMINUM Ø (in) lb/ft 4.0 1.7	TUBULAR ALUMINUM Ø (in) lb/ft 4.0 MOD 1.7	TUBULAR STEEL Ø (in) FOUNDATION	TUBULAR STEEL Ø (in) lb/ft 3.0 7.6	TUBULAR STEEL Ø (in) lb/ft 3.5 9.0	TUBULAR STEEL Ø (in) lb/ft 4.0 10.8	TUBULAR STEEL Ø (in) lb/ft 5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	W-SHAPE STEEL FTG. SIZE 30"	W-SHAPE STEEL WEIGHT	W-SHAPE STEEL POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	SIGN DETAIL DETAIL ON DWG. NUMBER	SIGN DETAIL STD. SHEET NUMBER
CASTLETON: 217+00.0, LT	TO	1	24	12	2.00						1					~~X~~ 15' 3"		X														SIGN ID CODE M4-5	X		
	4	1	24	24	4.00																											SIGN ID CODE MI-4	X		
		1	21	15	2.19																											SIGN ID CODE M5-IR	X		
218+08.0, RT	WATCH FOR LANDSLIDES						1				1					~~X~~ 14' 0"		X														SALVAGED SIGN TO BE MOUNTED ON NEW POST.	-	-	-
220+00.0, RT		1	30	30	6.25						1					~~X~~ 15' 6"		X														SIGN ID CODE W1-2R SIGN SHALL BE FLUORESCENT YELLOW-GREEN.	X		
	35 MPH	1	18	18	2.25																											SIGN ID CODE W13-IP SIGN SHALL BE FLUORESCENT YELLOW-GREEN.	X		
221+38.0, RT	BRIDGE 8 VT 4A	1	6	8	0.33						1					~~X~~ 8' 0"		X														SIGN ID CODE VD-701			E-134
222+30.0, LT	BRIDGE 8 VT 4A	1	6	8	0.33						1					~~X~~ 7' 6"		X														SIGN ID CODE VD-701			E-134
223+40.0, LT		1	48	24	8.00						2					12' 9" ~~X~~ 14' 0"		X														SIGN ID CODE W1-6R	X		
224+84.0, LT		1	48	24	8.00						2					11' 9" ~~X~~ 12' 0"		X														SIGN ID CODE W1-6L	X		
												LF	LF	LF	LF	LF	LF		EA.	LB	LB	LB		LB	LB	LB	LB									
															28	~~98~~																					
															15.5	92.25																					
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."																																				
TOTALS		SF 33.35	SF	EA. 1	SF							LF			LF ~~126~~ 110.75				EA.	LB			EA.	LB				EA.	EA.	LB						

TRAFFIC SIGN SUMMARY SHEET #4

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168tss4.i

PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 60 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 5

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST POST		NEW SIGN POSTS																		REMARKS	SIGN DETAIL		
		EA	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN	SALV TIS	RETAIN	SALVAGE	NO. OF POSTS	FLANGED CHANNEL lb/ft			SQUARE STEEL (in) lb/ft			ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft			FOUND-ATION	TUBULAR STEEL Ø (in) lb/ft				W-SHAPE STEEL FTG. SIZE		WEIGHT	POST SIZE	SIGN FRAME REQUIRED	SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
												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"						
															1.88	2.42	3.35			1.3	1.7	1.7		7.6	9.0	10.8	14.6								
CASTLETON: 226+25.0, LT	HIDDEN DRIVE LEFT	1	30	30	6.25						1					~~X~~ 13' 3"		X														SIGN ID CODE VW-054			E-154
227+25.0, LT		1	36	36	9.00						2					14' 3" ~~X~~ 15' 3"		X														SIGN ID CODE S3-1 SIGN SHALL BE FLUORESCENT YELLOW-GREEN.	X		
229+36.0, LT		1	30	30	6.25						1					~~X~~ 15' 0"		X														SIGN ID CODE WI-2L	X		
	35 MPH	1	18	18	2.25																											SIGN ID CODE WI3-IP	X		
232+32.0, RT	0041 1103 0440	1	6	10	0.42						1				~~X~~ 5' 0"			X														SIGN ID CODE VD-700			E-138
233+00.0, RT		1	30	30	6.25						1					~~X~~ 11' 0"		X														SIGN ID CODE WI-2L	X		
235+80.0, RT		1	48	24	8.00						2					12' 0" ~~X~~ 12' 9"		X														SIGN ID CODE WI-6L	X		
238+75.0, RT		1	48	24	8.00						2					13' 0" ~~X~~ 13' 6"		X														SIGN ID CODE WI-6R	X		
242+05.0, LT		1	30	30	6.25						1					~~X~~ 12' 6"		X														SIGN ID CODE WI-2R	X		
												LF	LF	LF	LF	LF	LF		EA.	LB	LB	LB		LB	LB	LB	LB								
															~~14~~ 5.0	~~140~~ 132.5																			
TOTALS		SF 52.67	SF	EA.	SF							LF			LF ~~154~~ 137.5					LB			EA.	LB				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TRAFFIC SIGN SUMMARY SHEET #5

PROJECT NAME: CASTLETON - WEST RUTLAND

PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68tss5.i

PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 61 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 6

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	FOUNDATION	TUBULAR STEEL Ø (in) lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
CASTLETON: 242+88.0, LT	0041 1103 0460	1	6	10	0.42						1				~~X~~ 7' 4"			X																E-138
253+44.0, RT	0041 1103 0480	1	6	10	0.42						1				~~X~~ 8' 3"			X																SIGN ID CODE VD-700			E-138
264+00.0, LT	0041 1103 0500	1	6	10	0.42						1				~~X~~ 7' 9"			X																SIGN ID CODE VD-700			E-138
264+06.0, RT	BRIDGE 9 VT 4A	1	6	8	0.33						1				~~X~~ 8' 6"			X																SIGN ID CODE VD-701			E-134
264+26.0, LT	BRIDGE 9 VT 4A	1	6	8	0.33						1				~~X~~ 10' 0"			X																SIGN ID CODE VD-701			E-134
269+87.0, RT	BRIDGE 10 VT 4A	1	6	8	0.33						1				~~X~~ 9' 3"			X																SIGN ID CODE VD-701			E-134
270+07.0, LT	BRIDGE 10 VT 4A	1	6	8	0.33						1				~~X~~ 8' 1"			X																SIGN ID CODE VD-701			E-134
274+56.0, LT	0041 1103 0520	1	6	10	0.42						1				~~X~~ 7' 1"			X																SIGN ID CODE VD-700			E-138
285+12.0, RT	0041 1103 0540	1	6	10	0.42						1				~~X~~ 7' 9"			X																SIGN ID CODE VD-700			E-138
											LF	LF	LF		LF	LF	LF	EA.	LB	LB	LB		LB	LB	LB	LB									
															~~126~~ 74.0																					
TOTALS		SF 3.42	SF	EA.	SF		LF		LF ~~126~~ 74.0										LB			EA.	LB				EA.	EA.	LB							

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TRAFFIC SIGN SUMMARY SHEET #6

PROJECT NAME: CASTLETON - WEST RUTLAND

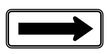
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68tss6.i

PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 62 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 7

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	FOUNDATION	TUBULAR STEEL Ø (in) lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
CASTLETON: 286+30.0, RT		1	30	30	6.25						1					~~X~~ 14' 0"		X															SIGN ID CODE WI-2R	X		
291+50.0, LT		1	30	30	6.25						1					~~X~~ 14' 0"		X															SIGN ID CODE WI-2L	X		
295+50.0, LT		1	6	10	0.42																												SIGN ID CODE VD-700 NEW SIGN TO BE MOUNTED ON EXISTING SIGN POST.			E-138
302+33.0, RT		1	6	8	0.33						1					~~X~~ 6' 9"		X															SIGN ID CODE VD-701			E-134
302+91.0, LT		1	6	8	0.33						1					~~X~~ 8' 3"		X															SIGN ID CODE VD-701			E-134
306+24.0, RT		1	6	10	0.42						1					~~X~~ 8' 0"		X															SIGN ID CODE VD-700			E-138
307+75.0, RT		1	30	30	6.25						1					~~X~~ 16' 3"		X															SIGN ID CODE WI-2R	X		
		1	18	18	2.25																												SIGN ID CODE WI3-1P	X		
311+57.0, LT		1	48	24	8.00						2					12' 9" ~~X~~ 13' 0"		X															SIGN ID CODE WI-6R	X		
											LF	LF	LF	LF	LF	LF	LF		EA.	LB	LB	LB		LB	LB	LB	LB									
														~~42~~	~~70~~																						
														23.0																						
TOTALS		SF 30.50	SF	EA.	SF						LF			LF ~~112~~ 93.0					LB			EA.	LB				EA.	EA.	LB						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TRAFFIC SIGN SUMMARY SHEET #7

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168tss7.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 63 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 8

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (in) FOUNDATION	3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
CASTLETON: 312+35.0, LT		1	48	24	8.00						2					12' 9" ~~X~~ 13' 0"		X															SIGN ID CODE WI-6L	X		
315+00.0, LT		1	30	30	6.25						1					~~X~~ 15' 9"		X															SIGN ID CODE WI-2L	X		
	35 MPH	1	18	18	2.25																												SIGN ID CODE WI3-1P	X		
316+80.0, ~~LT~~ RT	0041 1103 0600	1	6	10	0.42		*1				1					~~X~~ 6' 3"		X					*NEW MM RELOCATED A.O.B.E.										SIGN ID CODE VD-700			E-138
327+36.0, ~~RT~~ LT	0041 1103 0620	1	6	10	0.42		*1				1					~~X~~ 7' 0"		X					*NEW MM RELOCATED A.O.B.E.										SIGN ID CODE VD-700			E-138
330+87.0, RT		1	36	36	9.00						2					14' 0" ~~X~~ 14' 3"		X															SIGN ID CODE WI-10L	X		
333+23.0, RT	STOP	1	30	30	6.25						1					~~X~~ 12' 6"		X															SIGN ID CODE RI-1	X		
333+31.0, RT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					~~X~~ 12' 6"		X															SIGN ID CODE VR-017			E-141
334+55.0, RT	HIDDEN DRIVE LEFT	1	30	30	6.25						1					~~X~~ 13' 0"		X															SIGN ID CODE VW-133			E-154
												LF	LF	LF	LF ~~28~~ 13.25	LF ~~112~~	LF 107.75		EA.	LB	LB	LB		LB	LB	LB	LB									
TOTALS		SF 43.84	SF	EA. 2	SF							LF			LF ~~140~~ 121.0					LB			EA.	LB				EA.	EA.	LB						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TRAFFIC SIGN SUMMARY SHEET #8

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168tss8.i

PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 64 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 9

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0 MOD lb/ft 1.7	FOUNDATION	TUBULAR STEEL Ø (in) 3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
CASTLETON: 335+00.0, RT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					~~X~~ 12' 3"		X															SIGN ID CODE VR-017			E-141
335+53.0, RT	STOP 0041 1103 0633	1 1	30 6	30 10	6.25 0.42						1					~~X~~ 13' 3"		X															BACK-TO-BACK SIGN ID CODE RI-1 SIGN ID CODE VD-700	X		E-138
335+55.0, LT	HIDDEN DRIVE RIGHT	1	30	30	6.25						1					~~X~~ 14' 0"		X															SIGN ID CODE VW-054			E-154
337+82.0, LT		1	36	36	9.00						2					14' 0" ~~X~~ 14' 0"		X															SIGN ID CODE WI-10R	X		
	0041 1103 0640	1	6	10	0.42																												SIGN ID CODE VD-700 NEW SIGN TO BE MOUNTED ON EXISTING SIGN POST.			E-138
~~348+48.0,~~ RT 349+00.0	0041 1103 0660	1	6	10	0.42		*1				1					~~X~~ 8' 0"		X															*NEW MM RELOCATED A.O.B.E. SIGN ID CODE VD-700			E-138
359+04.0, LT	0041 1103 0680	1	6	10	0.42						1					~~X~~ 6' 9"		X															SIGN ID CODE VD-700			E-138
365+00.0, RT	BRIDGE 12 VT 4A	1	6	8	0.33						1					~~X~~ 7' 6"		X															SIGN ID CODE VD-701			E-134
365+93.0, LT	BRIDGE 12 VT 4A	1	6	8	0.33						1					~~X~~ 7' 3"		X															SIGN ID CODE VD-701			E-134
												LF	LF	LF	LF ~~56~~ 29.5	LF ~~70~~ 67.5	LF		EA.	LB	LB	LB		LB	LB	LB	LB									
TOTALS		SF 28.84	SF	EA. 1	SF							LF			LF ~~126~~ 97.0					LB			EA.	LB				EA.	EA.	LB						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TRAFFIC SIGN SUMMARY SHEET #9

PROJECT NAME: CASTLETON - WEST RUTLAND

PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168tss9.i

PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 65 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 10

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	FOUND-ATION	TUBULAR STEEL Ø (in) lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
IRA: 0+00.0, RT	Ira / Castleton	1	72	10	5.00						2					10' 9" ✕ 11' 0"		X																		75	
	0041 1109 0000 / 0041 1103 0694	1 1	6 6	10 10	0.42 0.42																												SIGN ID CODE VD-700 SIGN ID CODE VD-700			E-138 E-138
8+50.0, RT		1	30	30	6.25						1					✕ 15' 6"		X																SIGN ID CODE WI-2L	X		
	35 MPH	1	18	18	2.25																												SIGN ID CODE WI3-IP	X		
10+18.0, RT		1	48	24	8.00						2					12' 3" ✕ 12' 9"		X																SIGN ID CODE WI-6L	X		
10+40.0, RT		1	48	24	8.00						2					12' 3" ✕ 13' 0"		X																SIGN ID CODE WI-6R	X		
	0041 1109 0020	1	6	10	0.42																												SIGN ID CODE VD-700			E-138
12+25.0, LT		1	30	30	6.25						1					✕ 15' 0"		X																SIGN ID CODE WI-2R	X		
	35 MPH	1	18	18	2.25																												SIGN ID CODE WI3-IP	X		
21+12.0, LT 21+40.0, RT	0041 1109 0040	1	6	10	0.42		*1				1					✕ 6' 9"		X									*NEW MM RELOCATED A.O.B.E.							SIGN ID CODE VD-700			E-138
31+50.0, RT		1	36	36	9.00						2					13' 3" ✕ 13' 9"		X																SIGN ID CODE S3-1 SIGN SHALL BE FLUORESCENT GREEN.	X		
												LF	LF	LF	LF ~~14~~ 6.75	LF ~~140~~ 129.5	LF		EA.	LB	LB	LB		LB	LB	LB	LB								
TOTALS		SF 48.68	SF	EA. 1	SF							LF			LF ~~154~~ 136.25					LB			EA.	LB				EA.	EA.	LB						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TRAFFIC SIGN SUMMARY SHEET #10

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168tss10.i

PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 66 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 11

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	FLANGED CHANNEL lb/ft 2.0	FLANGED CHANNEL lb/ft 3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	SQUARE STEEL (in) 2.0 lb/ft 2.42	SQUARE STEEL (in) 2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) 3.0 lb/ft 1.3	TUBULAR ALUMINUM Ø (in) 4.0 lb/ft 1.7	TUBULAR ALUMINUM Ø (in) 4.0 MOD lb/ft 1.7	TUBULAR STEEL Ø (in) FOUNDATION	TUBULAR STEEL Ø (in) 3.0 lb/ft 7.6	TUBULAR STEEL Ø (in) 3.5 lb/ft 9.0	TUBULAR STEEL Ø (in) 4.0 lb/ft 10.8	TUBULAR STEEL Ø (in) 5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	W-SHAPE STEEL FTG. SIZE 30"	W-SHAPE STEEL WEIGHT	W-SHAPE STEEL POST SIZE	SIGN FRAME REQUIRED	REMARKS (SHS = FHWA STANDARD HIGHWAY SIGNS BOOK)	SIGN DETAIL DETAIL IN SHS	SIGN DETAIL DETAIL ON DWG. NUMBER	SIGN DETAIL STD. SHEET NUMBER
IRA: 32+95.0, RT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					~~X~~ 12' 9"			X														SIGN ID CODE VR-017			E-141
33+44.0, RT	Birdseye Rd	1	42	12	3.50						1					~~X~~ 12' 9"			X														TOP MOUNTING BRACKET REQUIRED TO INSTALL SIGN ON POST. COSTS ASSOCIATED WITH THIS BRACKET ARE INCIDENTAL TO THE SIGN POST.		74	
	STOP 0041 1109 0063	1 1	30 6	30 10	6.25 0.42																											BACK-TO-BACK SIGN ID CODE RI-1 SIGN ID CODE VD-700	X		E-138
42+24.0, LT 42+00.0, RT	0041 1109 0080	1	6	10	0.42		•1				1				~~X~~ 7' 0"				X				•NEW MM RELOCATED A.O.B.E.										SIGN ID CODE VD-700			E-138
47+50.0, RT		1	30	30	6.25						1					~~X~~ 16' 0"			X														SIGN ID CODE WI-4	X		
	35 MPH	1	18	18	2.25																												SIGN ID CODE WI3-IP	X		
50+53.0, RT	BRIDGE 14 VT 4A	1	6	8	0.33						1					~~X~~ 7' 3"			X														SIGN ID CODE VD-701			E-134
50+73.0, LT	BRIDGE 14 VT 4A	1	6	8	0.33						1					~~X~~ 7' 6"			X														SIGN ID CODE VD-701			E-134
51+16.0, RT		1	48	24	8.00						2					12' 3" ~~X~~ 13' 6"			X														SIGN ID CODE WI-6L	X		
52+50.0, RT		1	48	24	8.00						2					12' 0" ~~X~~ 12' 0"			X														SIGN ID CODE WI-6R	X		
	0041 1109 0100	1	6	10	0.42																												SIGN ID CODE VD-700			E-138
												LF	LF	LF	LF ~~42~~ 21.75	LF ~~98~~ 91.25	LF		EA.	LB	LB	LB		LB	LB	LB	LB								
TOTALS		SF 41.17	SF	EA. 1	SF							LF			LF ~~140~~ 113.0					LB			EA.	LB				EA.	EA.	LB						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TRAFFIC SIGN SUMMARY SHEET #11

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168tss11.i

PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 67 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 12

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST POST		NEW SIGN POSTS																		REMARKS	SIGN DETAIL		
		EA	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN	SALV TIS	RETAIN	SALVAGE	NO. OF POSTS	FLANGED CHANNEL lb/ft			SQUARE STEEL (in) lb/ft			ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft			FOUND-ATION	TUBULAR STEEL Ø (in) lb/ft				W-SHAPE STEEL FTG. SIZE		WEIGHT	POST SIZE	SIGN FRAME REQUIRED	SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	DETAIL ON DWG. NUMBER	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
												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"							
IRA: 58+05.0, LT		1	48	24	8.00						2					11' 9" X 12' 9"			X													SIGN ID CODE WI-6R	X		
58+25.0, LT		1	48	24	8.00						2					12' 3" X 12' 3"			X													SIGN ID CODE WI-6L	X		
61+50.0, LT		1	30	30	6.25						1					X 15' 0"			X													SIGN ID CODE WI-4	X		
	35 MPH	1	18	18	2.25																											SIGN ID CODE WI3-IP	X		
63+35.0, RT		1	30	30	6.25						1					X 15' 3"			X													SIGN ID CODE WI-2R	X		
	45 M.P.H.	1	18	18	2.25																											SIGN ID CODE WI3-IP	X		
	0041 1109 0120	1	6	10	0.42																											SIGN ID CODE VD-700			E-138
67+00.0, LT		1	48	24	8.00						2					12' 3" X 12' 0"			X													SIGN ID CODE WI-6R	X		
67+50.0, LT		1	48	24	8.00						2					12' 0" X 12' 3"			X													SIGN ID CODE WI-6L	X		
WEST RUTLAND: 0+00.0, RT	West Rutland Ira	1	72	10	5.00						2					11' 6" X 11' 9"			X																75	
	0041 1128 0000 0041 1109 0130	1 1	6 6	10 10	0.42 0.42																											SIGN ID CODE VD-700 SIGN ID CODE VD-700			E-138 E-138
												LF	LF	LF	LF	LF 168 151	LF		EA.	LB	LB	LB		LB	LB	LB	LB								
TOTALS		SF 55.26	SF	EA.	SF							LF			LF 168 151					LB			EA.	LB				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TRAFFIC SIGN SUMMARY SHEET #12

PROJECT NAME: CASTLETON - WEST RUTLAND

PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168tssl2.i

PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 68 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 13

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (in) FOUNDATION	lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
WEST RUTLAND: 0+50.0, LT		1	30	30	6.25						1					~~X~~ 11' 3"		X														SIGN ID CODE WI-2L	X		
10+56.0, LT	0041 1128 0020	1	6	10	0.42						1					~~X~~ 7' 6"		X														SIGN ID CODE VD-700			E-138
21+12.0, RT	0041 1128 0040	1	6	10	0.42						1					~~X~~ 8' 3"		X														SIGN ID CODE VD-700			E-138
23+43.0, RT	HIDDEN DRIVES	1	30	30	6.25						1					~~X~~ 13' 9"		X														SIGN ID CODE VW-060			E-154
31+68.0, LT	0041 1128 0060	1	6	10	0.42						1					~~X~~ 8' 3"		X														SIGN ID CODE VD-700			E-138
34+42.0, LT	HIDDEN DRIVES	1	30	30	6.25						1					~~X~~ 14' 6"		X														SIGN ID CODE VW-060			E-154
42+24.0, RT	0041 1128 0080	1	6	10	0.42						1					~~X~~ 7' 6"		X														SIGN ID CODE VD-700			E-138
52+80.0, LT	0041 1128 0100	1	6	10	0.42						1					~~X~~ 8' 6"		X														SIGN ID CODE VD-700			E-138
57+59.0, RT	SPEED LIMIT 40	1	36	36	9.00						2					14' 9" ~~X~~ 15' 3"		X														SIGN ID CODE W3-5	X		
		LF										LF			LF	~~70~~ 40	LF	~~70~~ 69.5	LF		EA.	LB				LB										
TOTALS		SF 29.85			SF		EA.		SF			LF			LF	~~140~~ 109.5						LB				EA.	LB				EA.	EA.	LB				

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TRAFFIC SIGN SUMMARY SHEET #13

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68tssl3.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 69 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 14

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	FOUNDATION	TUBULAR STEEL Ø (in) lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
WEST RUTLAND: 60+25.0, RT	West Rutland Center Rutland 2	1	30	18	3.75						1					~~X~~ 11' 9"		X															SIGN ID CODE D3-5		74	
62+00.0, RT		1	36	36	9.00						2					14' 6" X 15' 0"		X															SIGN ID CODE W1-10R	X		
63+40.0, LT	SPEED LIMIT 50	1	24	30	5.00						1					~~X~~ 12' 3"		X															SIGN ID CODE R2-1			E-141
63+80.0, RT	SPEED LIMIT 40	1	24	30	5.00						1					~~X~~ 12' 3"		X															SIGN ID CODE R2-1			E-141
64+40.0, LT	WHIPPLE HOLLOW RD						1				1					~~X~~ 12' 6"		X															SALVAGED SIGN TO BE MOUNTED ON NEW POST. TOP MOUNTING BRACKETS REQUIRED TO INSTALL SALVAGED SIGN TO NEW POST. COSTS ASSOCIATED WITH THIS BRACKET ARE INCIDENTAL TO THE SIGN POST.	-	-	-
	STOP 0041 1128 0123	1 1	30 6	30 10	6.25 0.42																												BACK-TO-BACK SIGN ID CODE R1-1 SIGN ID CODE VD-700	X		E-138
64+83.0, LT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					~~X~~ 13' 3"		X															SIGN ID CODE VR-017			E-141
65+50.0, RT	HIDDEN DRIVES	1	30	30	6.25						1					~~X~~ 13' 0"		X															SIGN ID CODE VW-060			E-154
69+12.0, LT		1	36	36	9.00						2					14' 3" ~~X~~ 14' 3"		X															SIGN ID CODE W1-10L	X		
												LF	LF	LF	LF	LF ~~140~~ 133.0	LF		EA.	LB	LB	LB		LB	LB	LB	LB									
TOTALS		SF 49.67	SF	EA. 1	SF							LF			LF ~~140~~ 133.0					LB			EA.	LB				EA.	EA.	LB						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TRAFFIC SIGN SUMMARY SHEET #14

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168tssl4.i

PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 70 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 15

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (in) FOUNDATION	lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
WEST RUTLAND: 71+50.0, LT	HIDDEN DRIVES	1	30	30	6.25						1					~~X~~ 13' 6"		X															SIGN ID CODE VW-060			E-154
73+92.0, RT	0041 1128 0140	1	6	10	0.42						1				~~X~~ 5' 9"			X															SIGN ID CODE VD-700			E-138
77+88.0, RT	SPEED LIMIT 40	1	24	30	5.00						1					~~X~~ 13' 3"		X															SIGN ID CODE R2-1	X		
80+98.0, LT	SPEED LIMIT 40	1	24	30	5.00						1					~~X~~ 14' 6"		X															SIGN ID CODE R2-1	X		

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (in) FOUNDATION	lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
84+48.0, ~~LT~~ RT	0041 1128 0160	1	6	10	0.42		*1				1				~~X~~ 7' 0"			X					*NEW MM RELOCATED A.O.B.E.									SIGN ID CODE VD-700			E-138
CASTLETON STATE HIGHWAY: 1+25.0, LT	ONLY | ONLY						1				2					13' 0" ~~X~~ 13' 0"		X															SALVAGED SIGN TO BE RELOCATED ON NEW POSTS.	-	-	-
3+41.0, RT	REPORT EMERGENCY TO 1-888-265-2735 CROSSING #240-907C ON E HUBBARDTON RD	1	18	30	3.75																												NEW SIGN TO BE MOUNTED ON EXISTING CROSSING SIGNAL POLE. SIGN ID CODE I-13a		74	
3+66.0, LT	REPORT EMERGENCY TO 1-888-265-2735 CROSSING #240-907C ON E HUBBARDTON RD	1	18	30	3.75																												NEW SIGN TO BE MOUNTED ON EXISTING CROSSING SIGNAL POLE. SIGN ID CODE I-13a		74	
3+66.0, LT	REPORT EMERGENCY TO 1-888-265-2735 CROSSING #240-907C ON E HUBBARDTON RD	1	18	30	3.75																												NEW SIGN TO BE MOUNTED ON EXISTING SIGNAL CASE. SIGN ID CODE I-13a		74	

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

											LF	LF	LF	LF	LF	LF		EA.	LB	LB	LB		LB	LB	LB	LB										
														~~28~~	~~70~~																						
														12.75	67.25																						
TOTALS	SF 28.34	SF	EA. +2	SF		LF			LF ~~98~~ 80.00					LB		EA.	LB					EA.	EA.	LB												

TRAFFIC SIGN SUMMARY SHEET #15

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68tssl5.i
PLOT DATE: 04-JUN-2013 09:(illegible)
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 71 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 16

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (in) FOUNDATION	lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
CASTLETON STATE HIGHWAY: 3+78.0, RT	BRIDGE 1 9150	1	6	8	0.33						1				~~X~~ 7' 6"			X																SIGN ID CODE VD-701			E-134
4+55.0, LT	BRIDGE 1 9150	1	6	8	0.33						1				~~X~~ 7' 6"			X																SIGN ID CODE VD-701			E-134
5+75.0, LT	R R						1				1					~~X~~ 13' 0"		X															SALVAGED SIGN TO BE RELOCATED ON NEW POST.	-	-	-
9+29.0, RT	BRIDGE 2 9150	1	6	8	0.33						1				~~X~~ 7' 9"			X																SIGN ID CODE VD-701			E-134
11+92.0, LT	BRIDGE 2 9150	1	6	8	0.33						1				~~X~~ 7' 0"			X																SIGN ID CODE VD-701			E-134
14+25.0, LT	FRISBIE HILL RD						1				1					~~X~~ 12' 6"		X															SALVAGED SIGN TO BE MOUNTED ON NEW POST. TOP MOUNTING BRACKETS REQUIRED TO INSTALL SALVAGED SIGN TO NEW POST. COSTS ASSOCIATED WITH THIS BRACKET ARE INCIDENTAL TO THE SIGN POST.	-	-	-
	STOP 9150 1103 0027	1 1	30 6	30 10	6.25 0.42																												BACK-TO-BACK SIGN ID CODE RI-1 SIGN ID CODE VD-700	X		E-138
14+60.0, LT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					~~X~~ 13' 0"		X															SIGN ID CODE VR-017			E-141
19+25.0, RT	SPEED LIMIT 35	1	36	36	9.00						2					13' 3" ~~X~~ 13' 0"		X															SIGN ID CODE W3-5	X		
												LF	LF	LF	LF ~~56~~ 29.75	LF ~~70~~ 64.75	LF		EA.	LB	LB	LB		LB	LB	LB	LB									
TOTALS		SF 21.99	SF	EA. 2	SF							LF			LF ~~126~~ 94.5					LB			EA.	LB				EA.	EA.	LB						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TRAFFIC SIGN SUMMARY SHEET #16

PROJECT NAME: CASTLETON - WEST RUTLAND

PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168tss16.i

PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 72 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 17

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST POST		NEW SIGN POSTS																		REMARKS	SIGN DETAIL		
		EA	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN	SALV TIS	RETAIN	SALVAGE	NO. OF POSTS	FLANGED CHANNEL lb/ft			SQUARE STEEL (in) lb/ft			ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft			FOUND-ATION	TUBULAR STEEL Ø (in) lb/ft				W-SHAPE STEEL FTG. SIZE		WEIGHT	POST SIZE	SIGN FRAME REQUIRED	SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
												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"							
															1.88	2.42	3.35			1.3	1.7	1.7		7.6	9.0	10.8	14.6									
	SHEET 57 SUBTOTAL				29.08		-								~~14~~ 6.42	84 71.75																			
	SHEET 58 SUBTOTAL				57.19		-								-	~~140~~ 142.33																			
	SHEET 59 SUBTOTAL				62.76		- 2								-	~~126~~ 137.75																			
	SHEET 60 SUBTOTAL				33.35		1								~~28~~ 15.5	~~98~~ 95.25																			
	SHEET 61 SUBTOTAL				52.67		-								~~14~~ 5	~~140~~ 132.5																			
	SHEET 62 SUBTOTAL				3.42		-								~~126~~ 74	-																			
	SHEET 63 SUBTOTAL				30.50		-								~~42~~ 23	~~70~~																			
	SHEET 64 SUBTOTAL				43.84		- 2								~~28~~ 13.25	~~112~~ 170.75																			
	SHEET 65 SUBTOTAL				28.84		- 1								~~56~~ 29.5	~~70~~ 67.5																			
	SHEET 66 SUBTOTAL				48.68		- 1								~~14~~ 6.75	~~140~~ 129.5																			
	SHEET 67 SUBTOTAL				41.17		- 1								~~42~~ 21.75	~~98~~ 91.25																			
	SHEET 68 SUBTOTAL				55.26		-								-	~~168~~ 151.0																			
	SHEET 69 SUBTOTAL				29.85		-								~~70~~ 40	~~70~~ 69.5																			
	SHEET 70 SUBTOTAL				49.67		1								-	~~140~~ 133.0																			
	SHEET 71 SUBTOTAL				28.34		~~1~~ 2								~~28~~ 12.75	~~70~~ 67.25																			
	SHEET 72 SUBTOTAL				21.99		2								~~56~~ 29.75	~~70~~ 64.75																			
	ROUNDING				0.39		-								~~7~~	~~29~~																			
												LF	LF	LF	LF ~~525~~ 277.67	LF ~~1625~~ 1531.08	LF		EA.	LB	LB	LB		LB	LB	LB	LB							
	TOTALS				SF 617	SF	EA. ~~5~~ 13	SF				LF			LF ~~2150~~ 1808.75					LB			EA.	LB				EA.	EA.	LB				

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

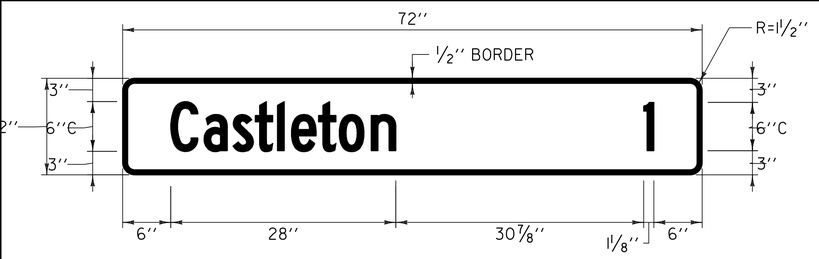
TRAFFIC SIGN SUMMARY SHEET #17

PROJECT NAME: CASTLETON - WEST RUTLAND

PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168tss17.i

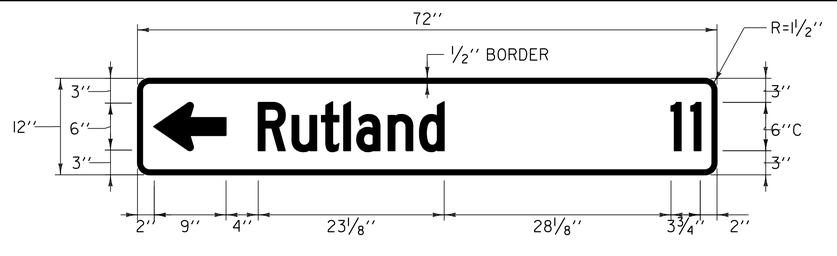
PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 73 OF 152



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-123

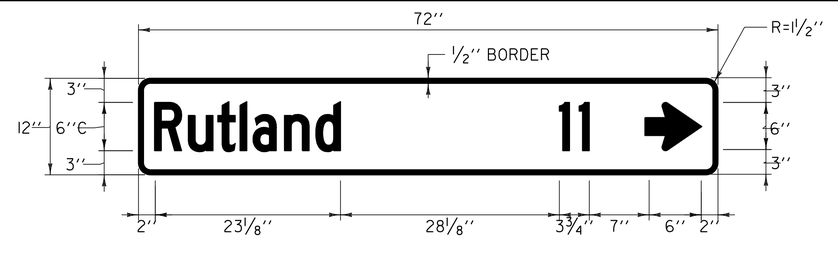
LOCATION: VT. ROUTE 4A
CASTLETON:
STA 208+75.0 LT



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-123

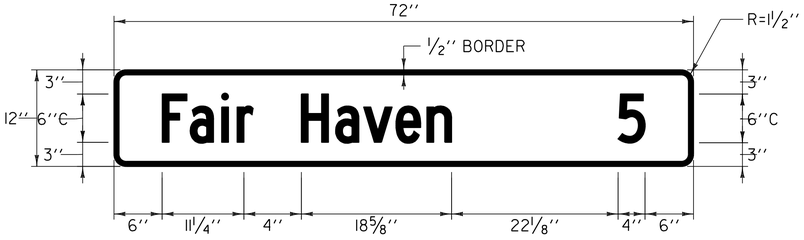
LOCATION: VT. ROUTE 4A
CASTLETON:
STA 209+00.0 RT



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-123

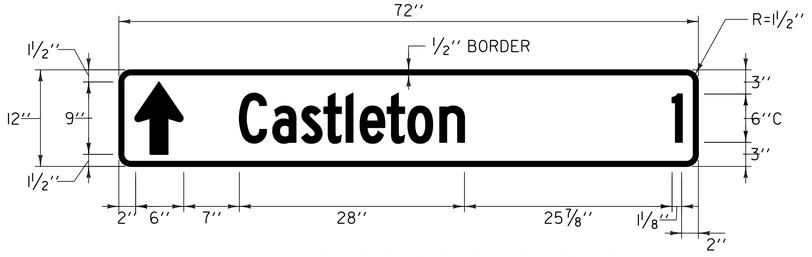
LOCATION: VT. ROUTE 4A
CASTLETON:
STA 214+50.0 LT



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-123

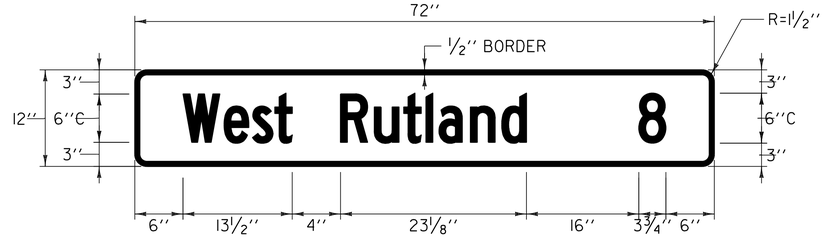
LOCATION: VT. ROUTE 4A
CASTLETON:
STA 208+75.0 LT



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-123

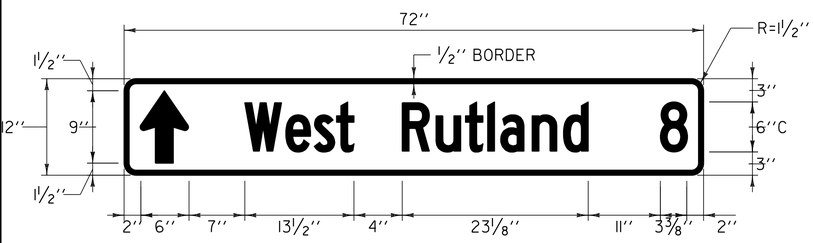
LOCATION: VT. ROUTE 4A
CASTLETON:
STA 214+50.0 LT



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-123

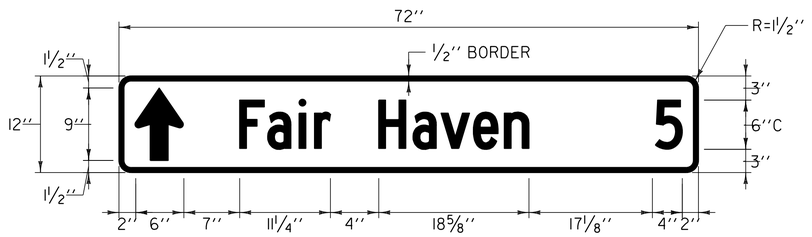
LOCATION: VT. ROUTE 4A
CASTLETON:
STA 215+50.0 RT



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-123

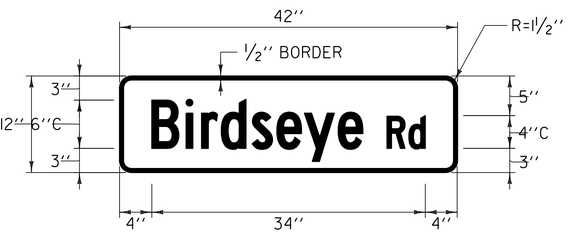
LOCATION: VT. ROUTE 4A
CASTLETON:
STA 209+00.0 RT



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-123

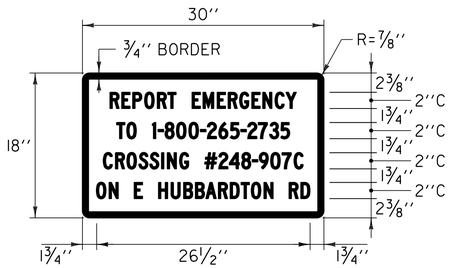
LOCATION: VT. ROUTE 4A
CASTLETON:
STA 214+50.0 LT



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-123

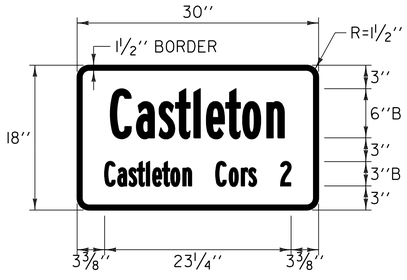
LOCATION: VT. ROUTE 4A
IRA:
STA 33+44.0 RT



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
BLUE BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-123

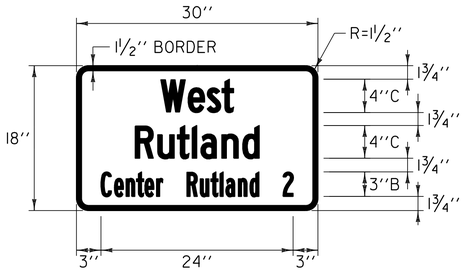
LOCATION: CASTLETON STATE HIGHWAY
CASTLETON:
STA 3+41.0 RT
STA 3+66.0 LT
STA 3+66.0 LT



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-128A

LOCATION: CASTLETON:
STA 205+58.0 LT



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-128A

LOCATION: WEST RUTLAND:
STA 60+25.0 RT

NOT TO SCALE

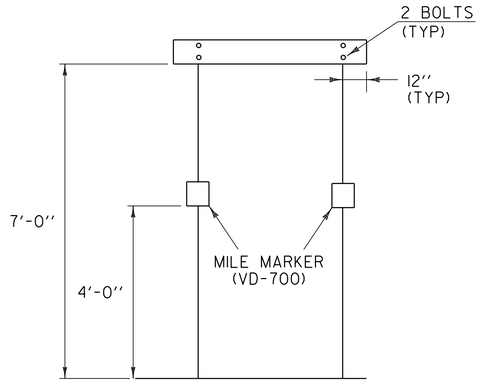
TRAFFIC SIGN DETAILS SHEET

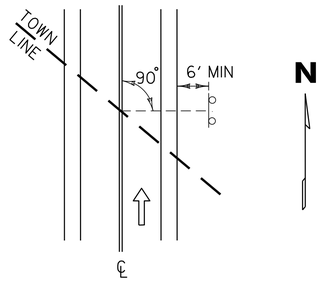
PROJECT NAME: CASTLETON - WEST RUTLAND

PROJECT NUMBER: STP 2705(I)

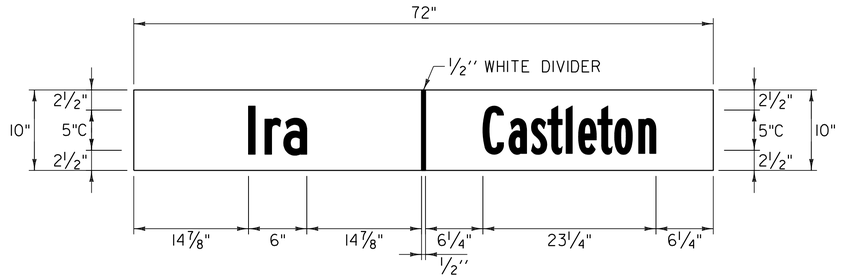
FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68tsd.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 74 OF 152



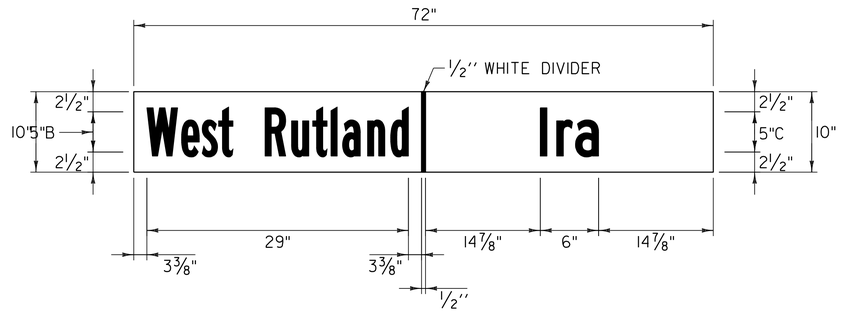


THE SIGN SHALL BE MOUNTED PARALLEL WITH THE ROADWAY, NORMALLY ON RIGHT SIDE TRAVELING WEST TO EAST OR SOUTH TO NORTH.



NOTES:

1. WORD TO WORD SPACING FOR MULTIPLE TEXT TOWN NAMES IS ADJUSTABLE TO ACCOMMODATE DIMENSION REQUIREMENTS.
2. DIMENSIONS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED SLIGHTLY TO ACCOMMODATE VARIOUS MANUFACTURER'S LETTER WIDTHS.
3. ALL DIMENSIONS ARE IN INCHES EXCEPT WHERE NOTED.
4. THE SIGN BASE MATERIAL SHALL BE ALUMINUM SHEETING 0.125'' MINIMUM THICKNESS. THE RETROREFLECTIVE MATERIAL SHALL BE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. THE LEGEND SHALL BE CUT-OUT RETROREFLECTIVE LEGEND. ALL RETROREFLECTIVE MATERIAL SHALL BE EQUAL TO OR EXCEEDING "THE AMERICAN SOCIETY OF TESTING AND MATERIALS" (ASTM) TYPE III.
5. SIGNS SHALL HAVE A RETROREFLECTIVE WHITE LEGEND ON A RETROREFLECTIVE GREEN BACKGROUND.
6. LEGEND SHALL CONFORM WITH THE STANDARD ALPHABETS FOR HIGHWAY SIGNS APPROVED BY THE NATIONAL JOINT COMMITTEE ON UNIFORM TRAFFIC CONTROL DEVICES.
7. ALL SIGNS SHALL BE IN ACCORDANCE WITH "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES: (MUTCD) AND THE "STANDARD HIGHWAY SIGNS" BOOK (SHS) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION (FHWA).



NOT TO SCALE

TOWN LINE SIGN DETAILS SHEET

PROJECT NAME: CASTLETON - WEST RUTLAND

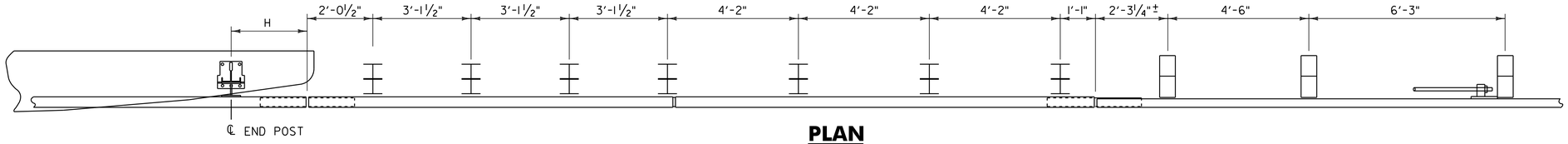
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68tld.i

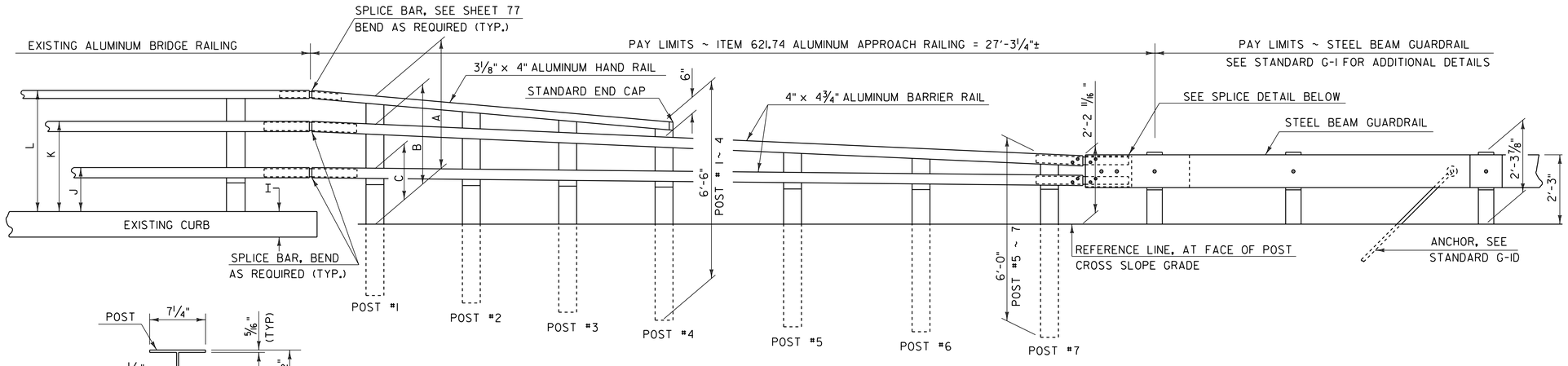
PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 75 OF 152

NOTES

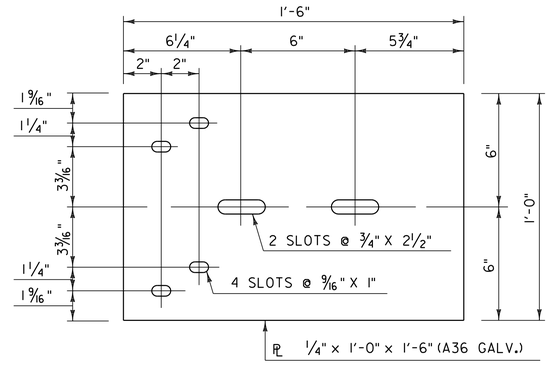
1. POST 1 THROUGH 7 SHALL BE EXTRUDED ALUMINUM.
2. ALL STRUCTURAL STEEL SHALL BE ASTM A-36 GALVANIZED AFTER FABRICATION.
3. ALL ITEMS NOT OTHERWISE INDICATED SHALL MEET THE SPECIFICATION REQUIREMENTS OF THE STANDARD SHEETS ON WHICH THEY ARE DETAILED.
4. SEE VAOT STANDARD G-1 FOR STEEL BEAM GUARDRAIL DETAILS.
5. THE COST OF ALL MATERIALS AND LABOR FOR THE SPLICE BETWEEN THE ALUMINUM APPROACH RAILING AND THE STEEL BEAM GUARDRAIL SHALL BE INCIDENTAL TO ITEM 621.74 ALUMINUM APPROACH RAILING.
6. DIMENSIONS SHOWN ARE FROM A REFERENCE LINE AT THE FACE OF POST FOR A NORMAL CROWNED SECTION. APPROPRIATE CORRECTIONS SHALL BE MADE FOR CROSS SLOPES OTHER THAN A NORMAL SECTION.
7. SEE SHEET 78 FOR ALUMINUM APPROACH RAIL DIMENSIONS TABLE.



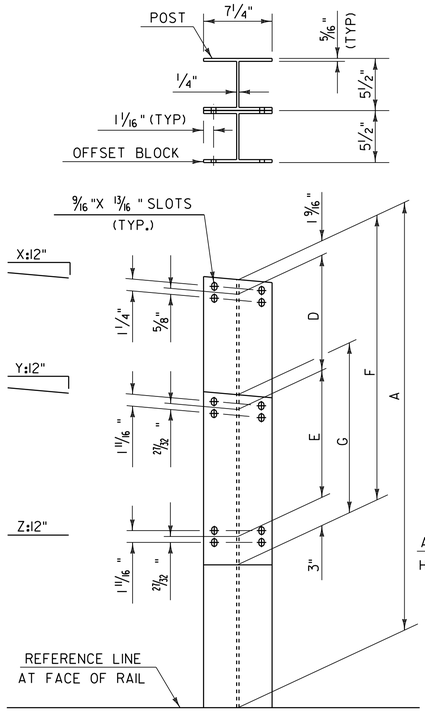
PLAN



ELEVATION

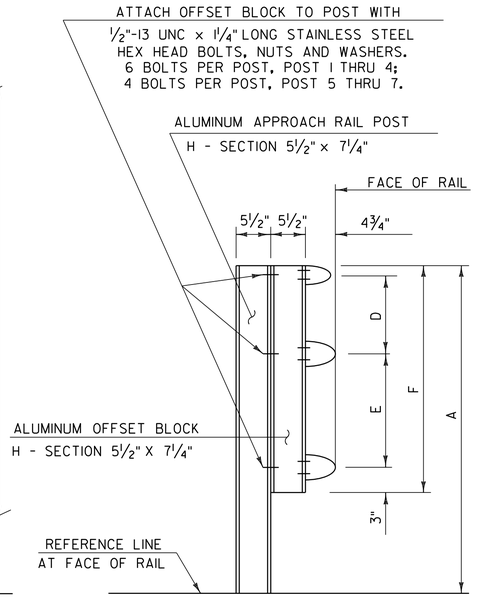


BACK-UP PLATE DETAIL



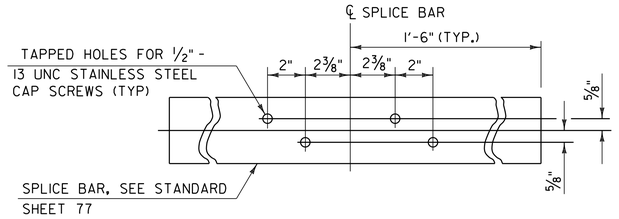
POST ELEVATION & SECTION

(SEE NOTE 7)

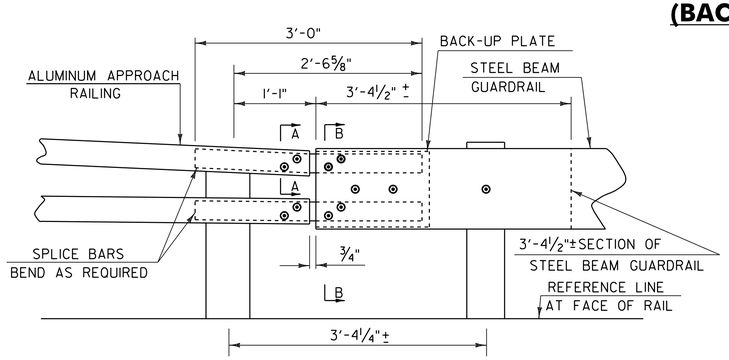


RAIL DETAIL

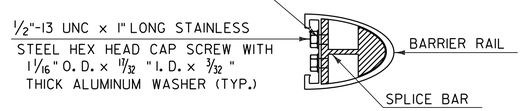
(SEE NOTE 7)



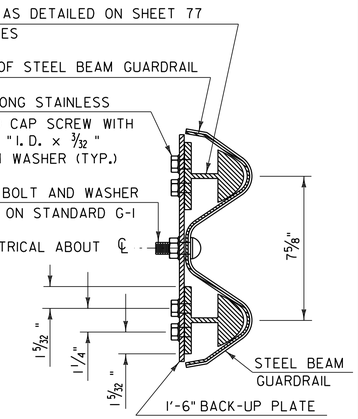
SPLICE BAR DETAIL (BACK SIDE VIEW)



SPLICE DETAIL



SECTION A – A



SECTION B – B

NOTE:

1. REFERENCE THIS SHEET WITH SHEETS 77 & 78 ALONG WITH SHEET 86 FOR BR 2 DETAILS.

NOT TO SCALE

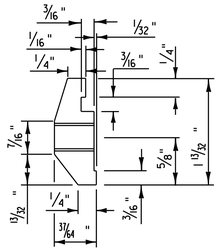
ALUMINUM APPROACH RAILING CONNECTION DETAIL SHEET #1

PROJECT NAME: CASTLETON - WEST RUTLAND

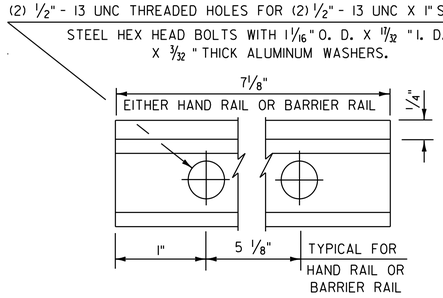
PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168aar1.i

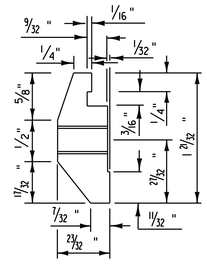
PLOT DATE: 04-JUN-2013 09:16
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 76 OF 152



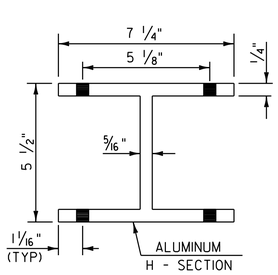
POST CONNECTION HAND RAIL SECTION



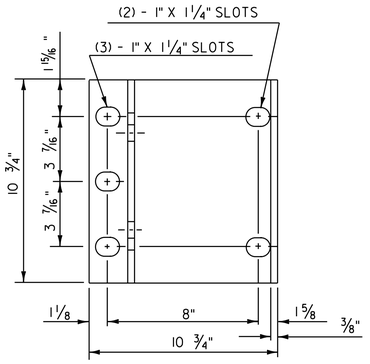
POST CONNECTION ELEVATION



POST CONNECTION BARRIER RAIL SECTION



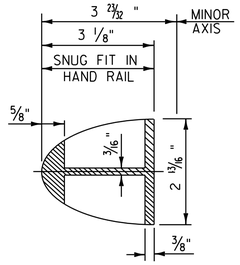
PLAN VIEW OF OFFSET BLOCK (TO BE USED ON SUPERSTRUCTURE ON CURB SIDE)



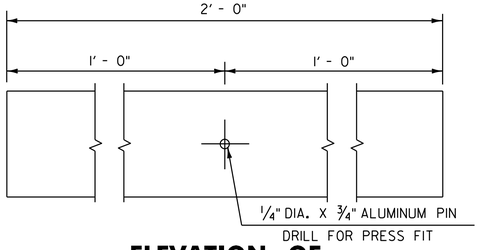
POST BASE PLAN

NOTES

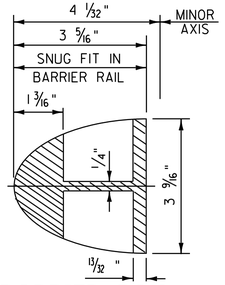
1. ANCHOR BOLTS, WASHERS AND HEAVY HEX NUTS SHALL CONFORM TO SUBSECTION 732.02(b)
2. ALUMINUM POSTS, POST BASES, SPLICE BARS, CONNECTION BARS, RAILS AND BALUSTER FRAMES SHALL CONFORM TO SUBSECTION 732.02(a).
3. ALUMINUM BALUSTER TUBES SHALL CONFORM TO SUBSECTION 732.02(a).
4. ALUMINUM RAIL END CAPS SHALL CONFORM TO SUBSECTION 732.02(a).
5. THE POST, RAIL, AND OFFSET BLOCK CONNECTION BOLTS SHALL CONFORM TO SUBSECTION 732.02(b).
6. SET SCREWS FOR ATTACHING BALUSTERS TO RAILING SHALL CONFORM TO SUBSECTION 732.02(b).
7. RIVETS SHALL CONFORM TO SUBSECTION 715.04(k)
8. THE ANCHOR PLATE FOR THE POST ANCHOR ASSEMBLY SHALL CONFORM TO SUBSECTION 732.02(c).
9. WELDING SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 506.10.
10. UNLESS OTHERWISE SPECIFIED, ANCHOR BOLTS SHALL BE CAST INTO THE CONCRETE AS DETAILED.
11. WHENEVER FEASIBLE BARRIER RAIL AND HAND RAIL SECTIONS, SHALL BE FULL LENGTH SECTIONS (40'+) AND WHEN POSSIBLE SHALL BE ATTACHED TO THREE POSTS. RAILS SHALL BE SPLICED AT EACH DECK JOINT AND INTERMITTENTLY AS REQUIRED. SPLICES SHALL OCCUR WITHIN THE SAME PANEL.
12. ENDS OF RAILS SHALL BE CUT SQUARE AND GROUND FREE OF BURRS OR RAGGED EDGES. EXPOSED ENDS SHALL BE CAPPED.
13. THE CONCRETE CONTACT SURFACE AT THE POST BASE SHALL BE BUSH HAMMERED AND/OR SHIMMED AS REQUIRED FOR PROPER POST ALIGNMENT. POST HEIGHT ADJUSTMENTS LESS THAN 1/4'' SHALL BE WITH 1/16'' AND 1/8'' SHIMS. CORRECTIONS EXCEEDING 1/4'' SHALL BE WITH MORTAR CONFORMING WITH SUBSECTION 707.03. FABRIC BEARING PADS AND ANY REQUIRED SHIMS OR MORTAR ARE INCIDENTAL TO THE UNIT PRICE BID FOR THE RAILING.
14. SHIMS AND 1/8'' FABRIC BEARING PADS SHALL BE 10 3/4'' SQUARE WITH SLOTTED HOLES SIZED AND LOCATED THE SAME AS THE POST BASE DETAIL. FABRIC BEARING PADS SHALL CONFORM TO SUBSECTION 732.02(f). SHIM MATERIAL SHALL CONFORM TO SUBSECTION 715.04(a).
15. EXTRUDED SECTIONS ARE DETAILED TO COMPLY WITH CURRENT AASHTO-AGC-ARTBA STANDARDS. MINOR VARIATIONS OF THE DETAILS SHOWN MAY BE CONSIDERED PROVIDING THEY DO NOT REDUCE THE STRENGTH CAPACITY OF THE RAIL SYSTEM.
16. ALUMINUM WASHERS SHALL BE CONFORM TO SUBSECTION 732.02(b).
17. REFERENCE THIS SHEET WITH SHEETS 76 & 78 ALONG WITH SHEET 86 FOR BR 2 DETAILS.



HAND RAIL SPLICE SECTION

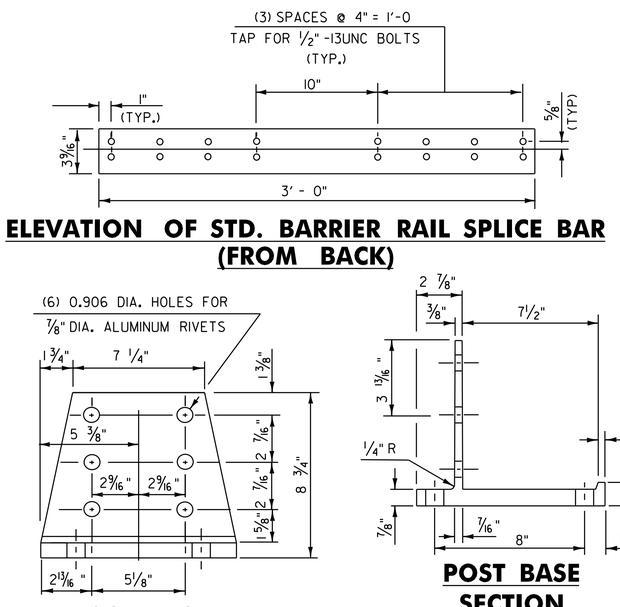


ELEVATION OF HAND RAIL SPLICE BAR

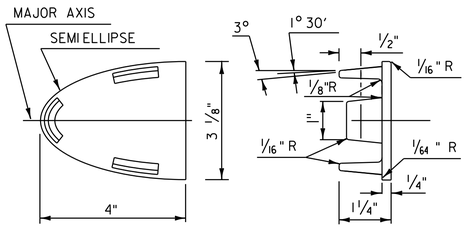


BARRIER RAIL SPLICE SECTION

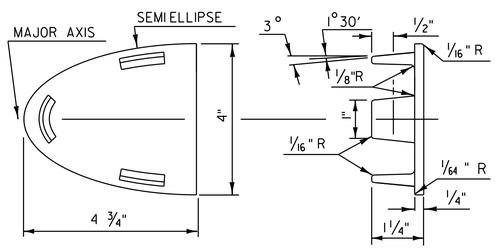
(SEE SHEET 76 FOR ELEVATION OF BARRIER RAIL SPLICE BAR)



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



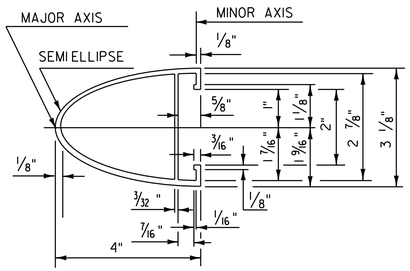
HAND RAIL END CAP



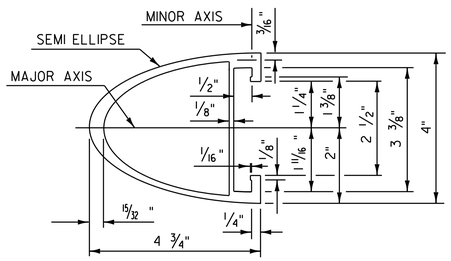
BARRIER RAIL END CAP

POST BASE FRONT ELEVATION

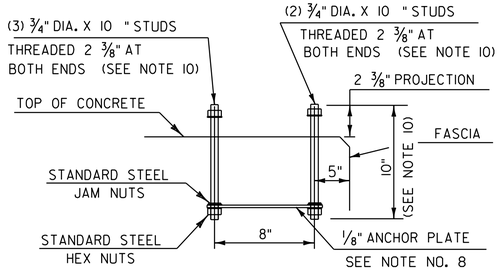
POST BASE SECTION



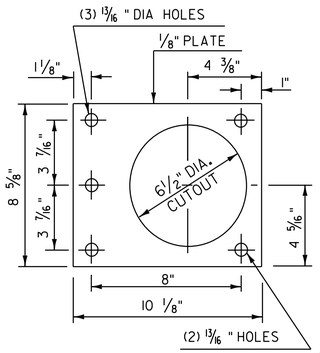
HAND RAIL SECTION



BARRIER RAIL SECTION



POST ANCHOR ASSEMBLY



ANCHOR PLATE

NOT TO SCALE

ALUMINUM APPROACH RAILING CONNECTION DETAIL SHEET #2

PROJECT NAME: CASTLETON - WEST RUTLAND

PROJECT NUMBER: STP 2705(1)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68aar2.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 77 OF 152

ALUMINUM APPROACH RAIL
RAIL DIMENSIONS FOR A CURB CONDITION

POST NO.	RAIL HEIGHT DIMENSIONS			OFFSET BLOCK DIMENSIONS			
	A	B	C	D	E	F	G
	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)	(IN)
1	46 1/2	35 3/4	23 3/16	11 3/16	12 5/8	28 5/16	17 5/8
2	43 13/16	34 5/8	22 11/16	9 9/16	12	26 1/8	17
3	41 1/16	33 1/2	22 1/8	8	11 3/8	23 15/16	16 3/8
4	38 3/8	32 3/8	21 5/8	6 7/16	10 3/4	21 3/4	15 3/4
5	-	30 7/8	20 15/16	-	9 15/16	-	14 15/16
6	-	29 3/8	20 5/16	-	9 1/8	-	14 1/8
7	-	27 7/8	19 5/8	-	8 5/16	-	13 5/16

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

	CURB SIDE
"X"	7/8 (IN)
"Y"	3/8 (IN)
"Z"	3/16 (IN)

H	18 3/4 (IN)
I	9 1/4 (IN)
J	14 1/4 (IN)
K	27 1/4 (IN)
L	39 (IN)

BRIDGE 2 - CASTLETON STATE HIGHWAY
STA 11+89.8 - STA 12+17.0 LT

SEE SHEETS 76 & 77
FOR ALUMINUM APPROACH RAIL DETAILS

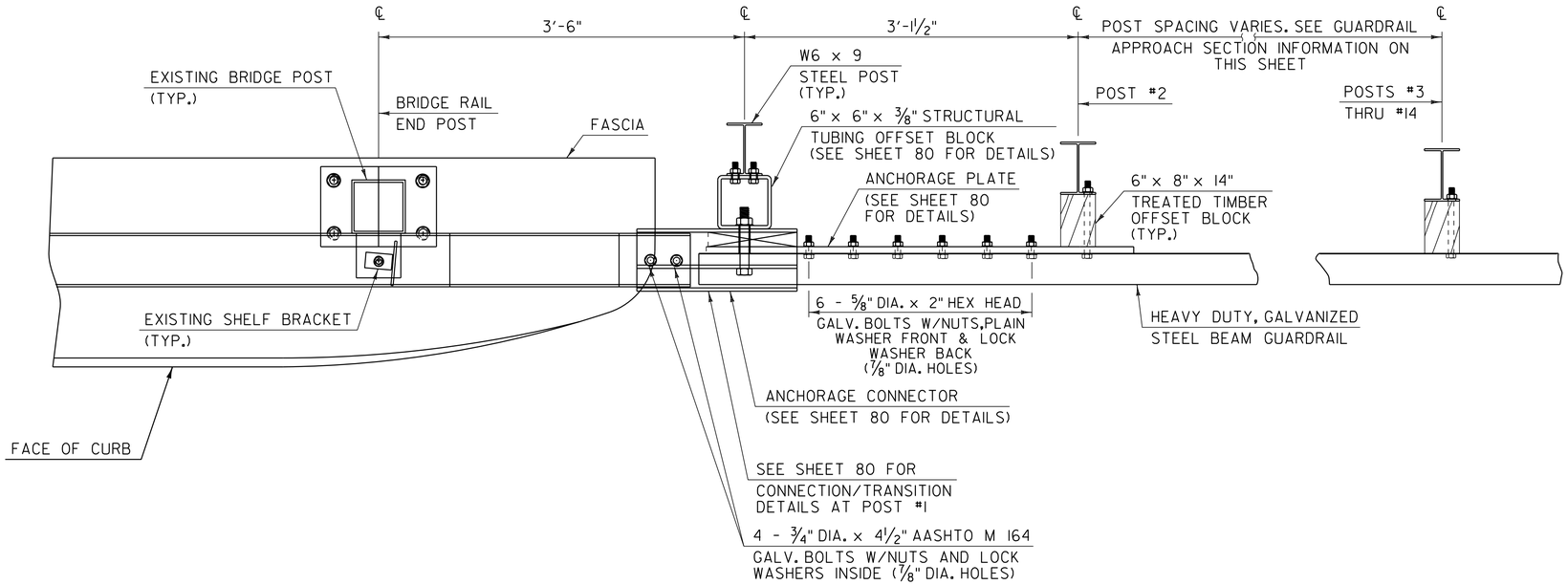
ALUMINUM APPROACH RAILING CONNECTION DETAIL SHEET #3

PROJECT NAME: CASTLETON - WEST RUTLAND

PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168aar3.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 78 OF 152

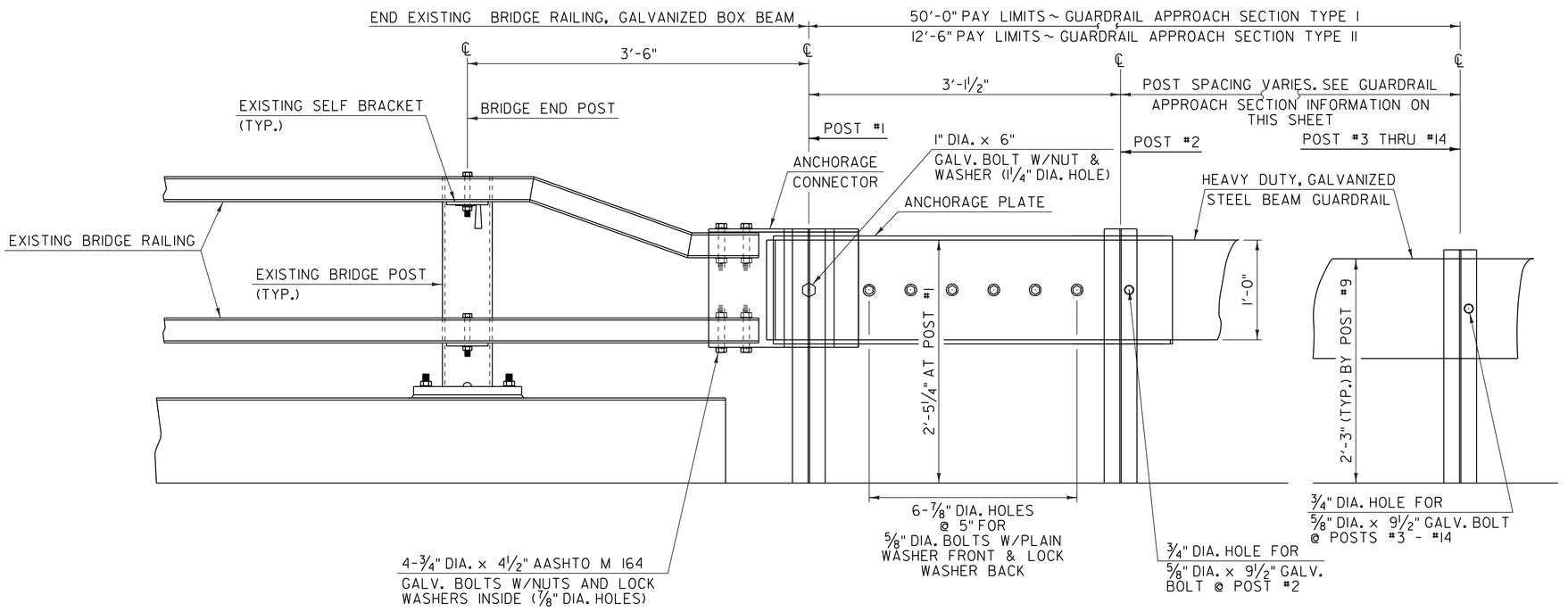


PLAN

GUARDRAIL APPROACH SECTION, TYPE I

POST NO.	SPACING
1	
2	3'-1½"
3	3'-1½"
4	3'-1½"
5	3'-1½"
6	3'-1½"
7	3'-1½"
8	3'-1½"
9	3'-1½"
10	4'-2"
11	4'-2"
12	4'-2"
13	6'-3"
14	6'-3"

50'-0" PAY LENGTH GUARDRAIL APPROACH SECTION, TYPE I



ELEVATION

GUARDRAIL APPROACH SECTION DETAIL

GUARDRAIL APPROACH SECTION, TYPE II

POST NO.	SPACING
1	
2	3'-1½"
3	4'-8¼"
4	4'-8¼"

12'-6" PAY LENGTH GUARDRAIL APPROACH SECTION, TYPE II

NOTE:

1. REFERENCE THIS SHEET WITH SHEET 80 ALONG WITH SHEET 83 FOR BR II DETAILS & SHEET 84 FOR BR I2 DETAILS.

NOT TO SCALE

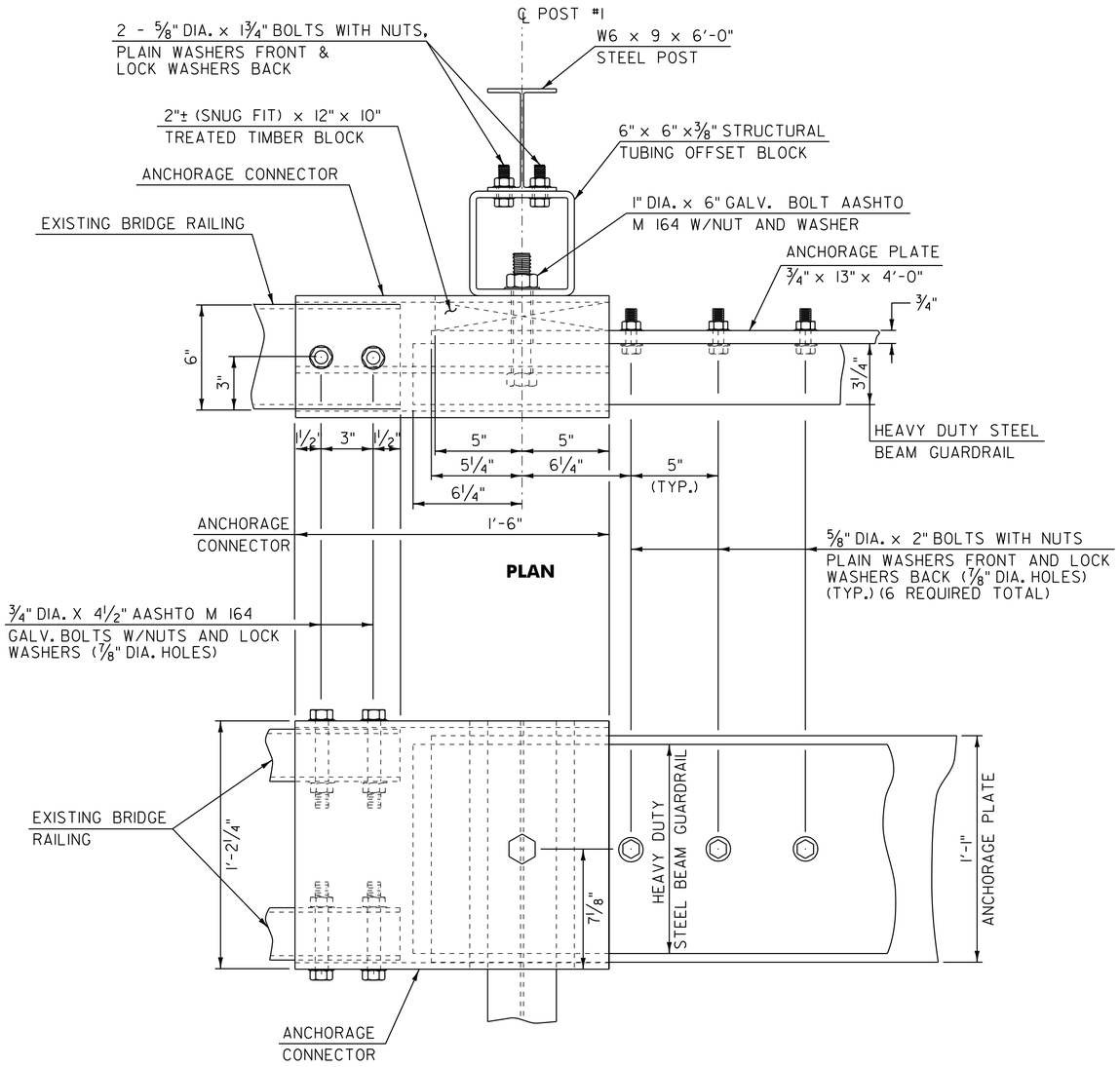
GUARDRAIL APPROACH SECTION DETAIL SHEET #1

PROJECT NAME: CASTLETON - WEST RUTLAND

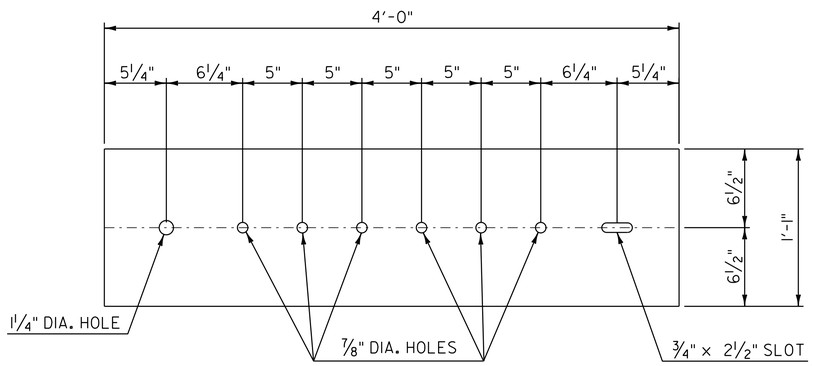
PROJECT NUMBER: STP 2705(1)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68gasl.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 79 OF 152



CONNECTION DETAILS AT POST #1



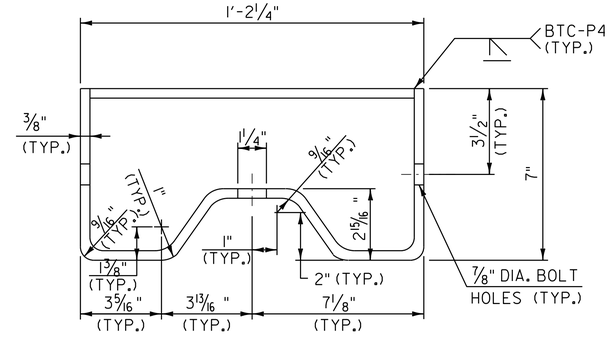
ANCHORAGE PLATE DETAIL

NOTE:

1. REFERENCE THIS SHEET WITH SHEET 79 ALONG WITH SHEET 83 FOR BR II DETAILS & SHEET 84 FOR BR I2 DETAILS.

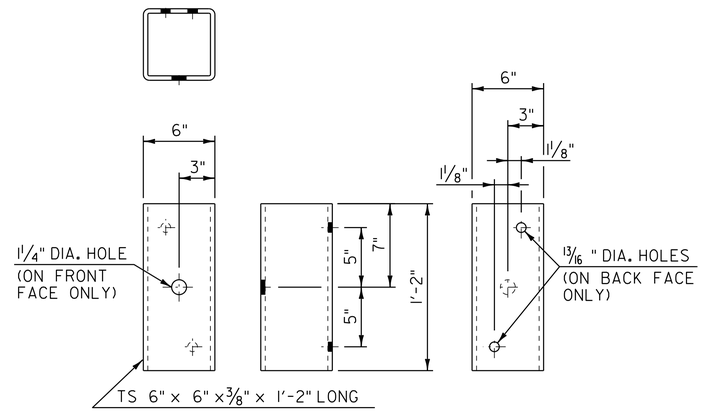
NOTES

1. REFER TO VAOT STANDARD G-1 FOR ADDITIONAL RAIL DETAILS.
2. ALL POSTS FOR HEAVY DUTY STEEL BEAM GUARDRAIL SHALL BE STEEL IN ACCORDANCE WITH SUBSECTION 728.01(c) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT.
3. APPROACH RAIL SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
4. ANCHORAGE CONNECTOR AND ANCHORAGE PLATE SHALL CONFORM TO SUBSECTION 728.01(c).
5. ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO SUBSECTION 728.03(c).
6. STRUCTURAL TUBING OFFSET BLOCK SHALL CONFORM TO SUBSECTION 728.01(c).
7. APPROACH RAILING SHALL BE HEAVY DUTY STEEL BEAM FOR 50'-0" FROM THE ℄ OF POST #1 FOR TYPE I AND 12'-6" FROM THE ℄ OF POST #1 FOR TYPE II.
8. ALLOWABLE DIMENSIONAL TOLERANCE FOR BENT SECTIONS IS ± 1/16 ".
9. THE UNIT PRICES BID FOR EITHER TYPE OF GUARDRAIL APPROACH SECTION SHALL INCLUDE ANCHORAGE CONNECTOR, ANCHORAGE PLATE, HEAVY DUTY STEEL BEAM GUARDRAIL, POSTS, OFFSET BLOCKS, BLOCKING, BOLTS, AND ALL NECESSARY HARDWARE.



ANCHORAGE CONNECTOR DETAIL

(SEE NOTE 8)



STRUCTURAL TUBING OFFSET BLOCK DETAILS

(OCCURS AT POST #1 WHEN USING APPROACH RAIL UTILIZING STEEL POSTS)

NOT TO SCALE

GUARDRAIL APPROACH SECTION DETAIL SHEET #2

PROJECT NAME: CASTLETON - WEST RUTLAND

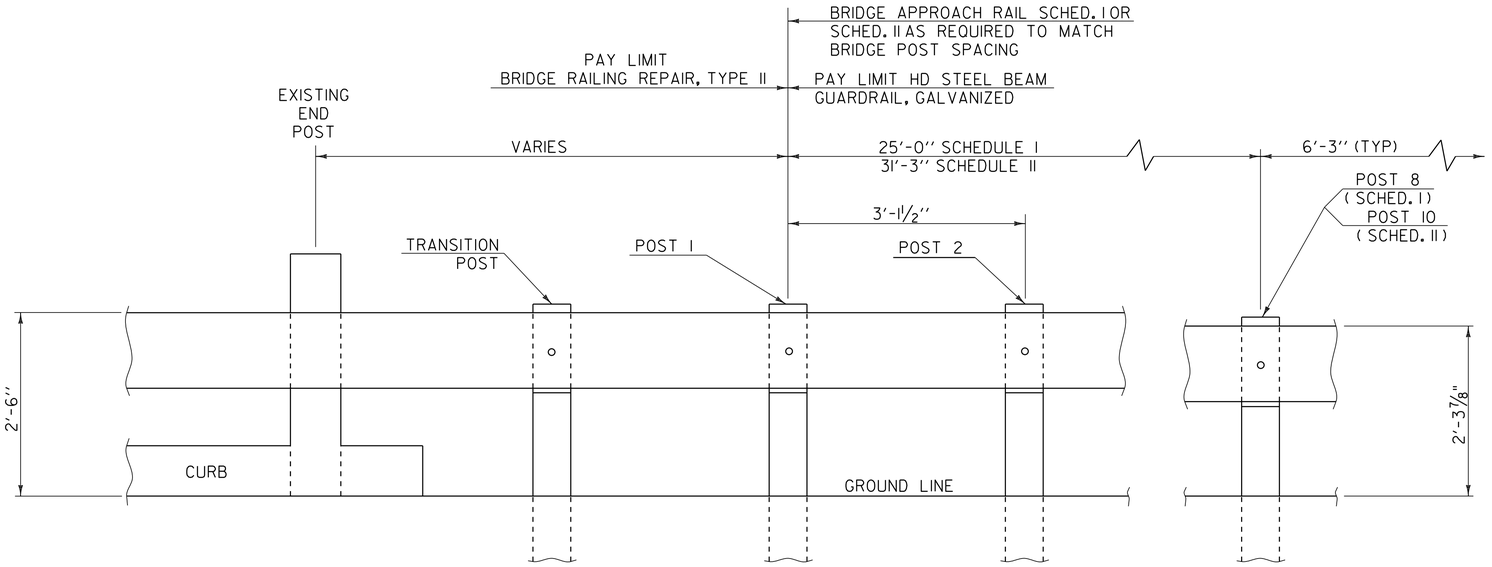
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168gas2.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 80 OF 152

BRIDGE QUANTITY SHEET

STATION	POS.	BRIDGE NUMBER	OFFSET BLOCK	525.10 REMOVAL OF EXISTING RAIL	525.55 BRIDGE RAILING REPAIR, TYPE II	REMARKS
			IN	LF	LF	
CASTLETON:						
STATE HIGHWAY						
3+79.5 - 4+54.5	LT	1	8	75.0	75.0	
3+84.5 - 4+59.5	RT	1	8	75.0	75.0	
ROUNDING				-	-	
TOTAL				150.0	150.0	



SCHEDULE I

POST NO.	SPACING	PAYMENT FACTOR
1	3'-1½"	1.4 x 12'-6"
2	3'-1½"	
3	3'-1½"	
4	3'-1½"	
5	4'-2"	1.2 x 12'-6"
6	4'-2"	
7	4'-2"	
8	6'-3" (TYP.)	1.0 (TYP)
9		
PAYMENT LENGTH = 32'-6"		

SCHEDULE II

POST NO.	SPACING	PAYMENT FACTOR
1	3'-1½"	1.4 x 18'-9"
2	3'-1½"	
3	3'-1½"	
4	3'-1½"	
5	3'-1½"	
6	3'-1½"	
7	4'-2"	1.2 x 12'-6"
8	4'-2"	
9	4'-2"	
10	6'-3" (TYP)	1.0 (TYP)
11		
PAYMENT LENGTH = 41'-3"		

SCHEDULE I APPROACH RAILING SHALL BE USED WHEN A RAIL PANEL SPLICE OCCURS AT POST NO. 1.
SCHEDULE II APPROACH RAILING SHALL BE USED WHEN A RAIL PANEL SPLICE OCCURS AT THE BRIDGE END POST.

BRIDGE APPROACH RAILING

GENERAL NOTES

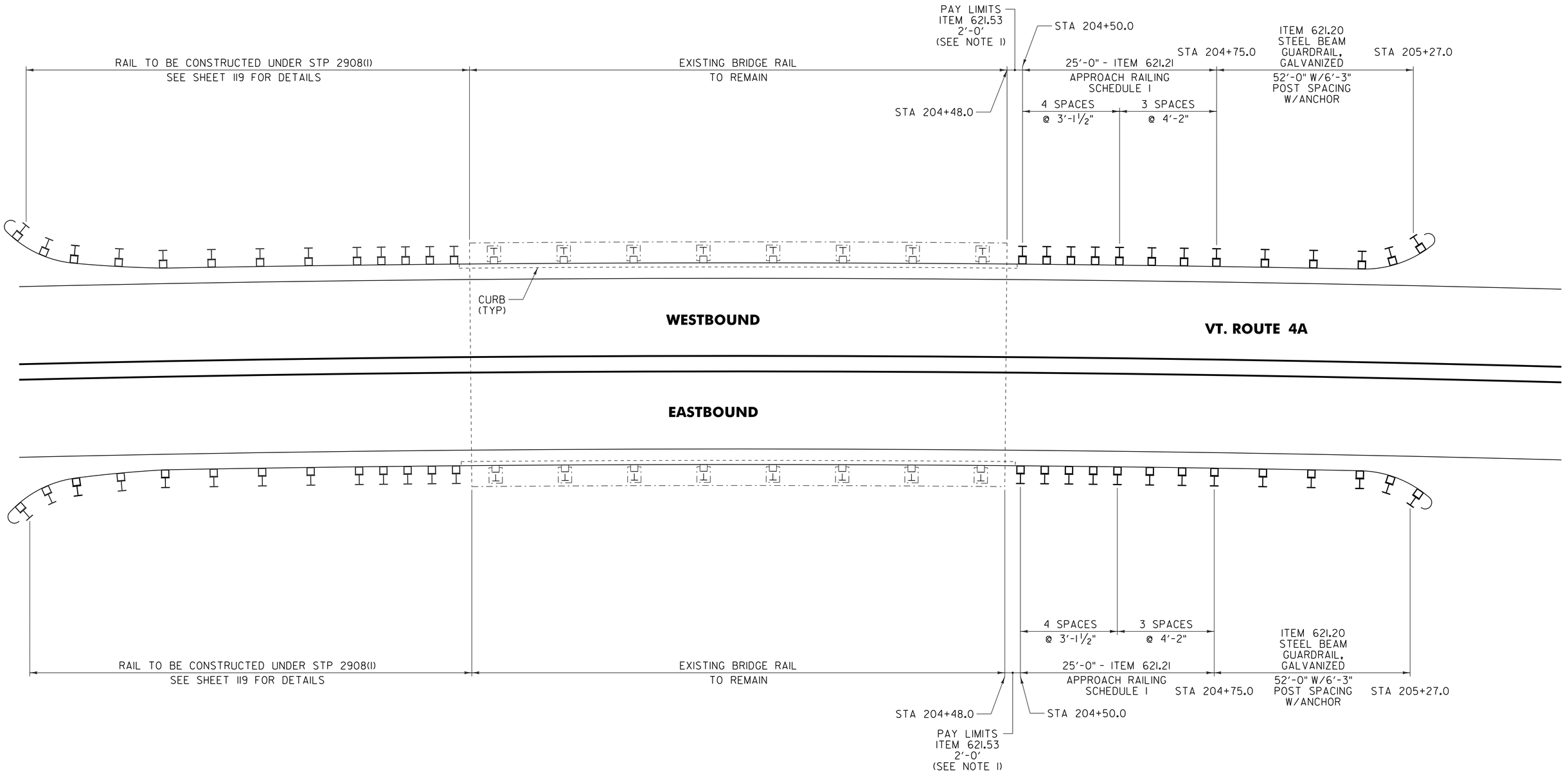
1. BRIDGE RAIL SHALL BE HD STEEL BEAM RAIL.
2. BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25'.
3. APPROACH RAILING SHALL BE HD STEEL BEAM FOR 25' FROM THE ENDS OF THE BRIDGE UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT ENGINEER.
4. FOR BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS PRACTICABLE TO THE MIDPOINT BETWEEN THE BRIDGE END POST AND APPROACH RAIL POST 1.
5. SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
6. SEE VAOT STANDARD SHEET G-1 FOR DELINEATION DETAILS AND PLACEMENT.
7. ERECT DELINEATORS ON EVERY FIFTH POST OR APPROXIMATELY 31'-3" APART. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS.
8. ALL BRIDGE POSTS, HD STEEL BEAM BRIDGE RAIL, AND RELATED HARDWARE SHALL BE PAID FOR UNDER THE APPROPRIATE BRIDGE RAILING ITEMS AS DENOTED IN THE PLANS.
9. SEE STANDARD SHEET G-1 FOR CONNECTION OF STEEL BEAM TO OFFSET BLOCK AND OFFSET BLOCK TO BRIDGE POST.
10. NEW BRIDGE RAILING POSTS SHALL BE SET NORMAL TO GRADE.
11. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10 OF THE STANDARD SPECIFICATIONS.
12. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON LIMITED FIELD INVESTIGATION AND AVAILABLE RECORD DRAWING INFORMATION. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO THE CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS AS DIRECTED BY THE RESIDENT ENGINEER.
13. ALL LANES SHALL BE OPENED TO TRAFFIC DURING NON-WORKING HOURS. NO GAPS BETWEEN EXISTING RAILING AND NEW RAILING WILL BE PERMITTED. DETAILS FOR TEMPORARY RAIL SHALL BE SUBMITTED FOR APPROVAL IF REQUIRED TO BRIDGE GAPS IN RAILING. PAYMENT FOR TEMPORARY RAIL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 525.10 REMOVAL OF EXISTING RAILING.
14. ALL OFFSET BLOCKS AND FIXTURES SHALL BE PROVIDED IN ACCORDANCE WITH SUBSECTION 732.04, UNLESS OTHERWISE NOTED, AND SHALL BE GALVANIZED AFTER FABRICATION TO CONFORM TO AASHTO M111M/M111.

NOT TO SCALE

BRIDGE DETAIL SHEET #1

PROJECT NAME: CASTLETON - WEST RUTLAND
PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168bdl.i
PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 81 OF 152



BR 7 CASTLETON MM 3.866 = STA 204+12.48

NOT TO SCALE

NOTE:

1. SEE VAOT STANDARD SHEET G-16 FOR TERMINAL CONNECTOR FOR STEEL BEAM GUARDRAIL INSTALLATION DETAILS.

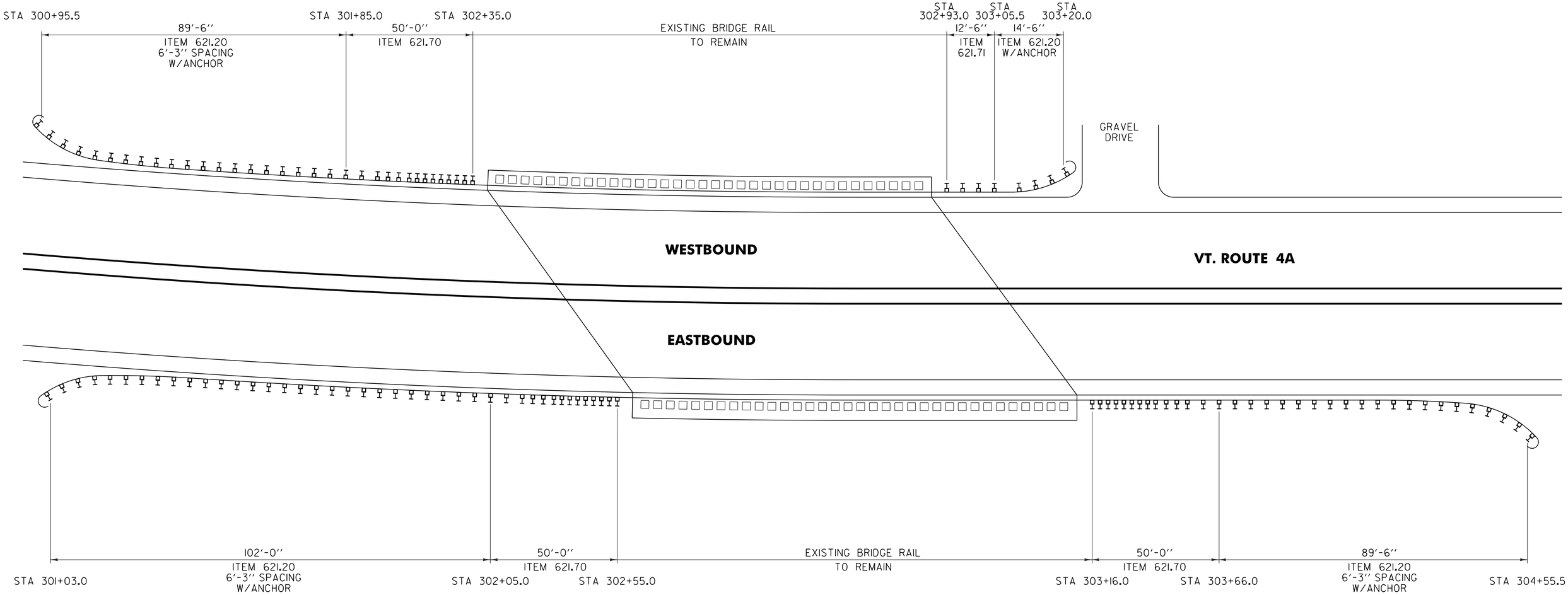
BRIDGE DETAIL SHEET #2

PROJECT NAME: CASTLETON - WEST RUTLAND

PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168bd2.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 82 OF 152



BR 11 CASTLETON MM 5.734 = STA 302+75.52

NOT TO SCALE

NOTE:

1. REFERENCE THIS SHEET ALONG WITH SHEETS 79 & 80 FOR GUARDRAIL APPROACH SECTION DETAILS.

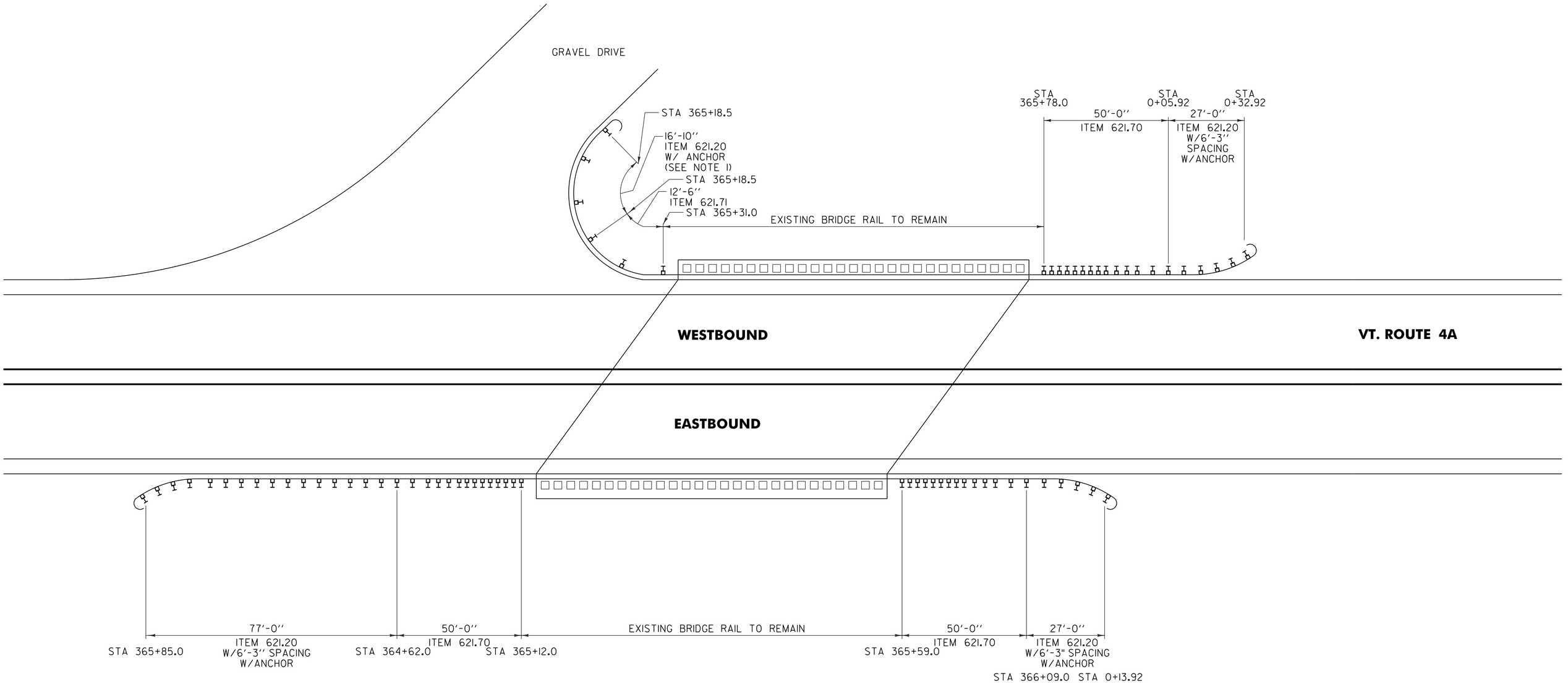
BRIDGE DETAIL SHEET #3

PROJECT NAME: CASTLETON - WEST RUTLAND

PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68bd3.i

PLOT DATE: 04-JUN-2013 09:I
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 83 OF 152



BR 12 CASTLETON MM 6.921 = STA 365+42.88

NOTES:

1. THE CONTRACTOR SHALL INSTALL NEW 16' RADIUS PANEL WITH ANCHORS AT EACH END AS DIRECTED BY THE RESIDENT ENGINEER.
2. TOWN OF CASTLETON MM 6.936 (STA 366+22.08) = TOWN OF IRA MM 0.000 (STA 0+00.00)
3. REFERENCE THIS SHEET ALONG WITH SHEETS 79 & 80 FOR GUARDRAIL APPROACH SECTION DETAILS.

NOT TO SCALE

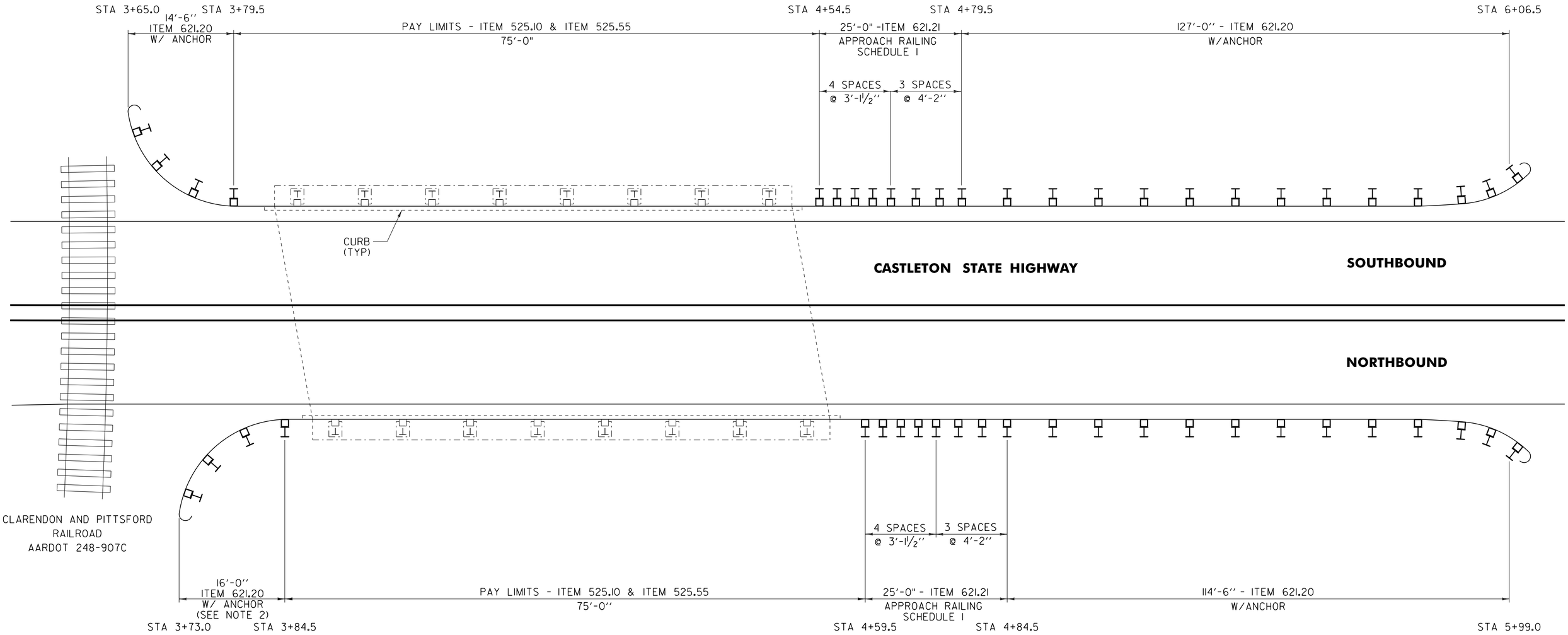
BRIDGE DETAIL SHEET #4

PROJECT NAME: CASTLETON - WEST RUTLAND

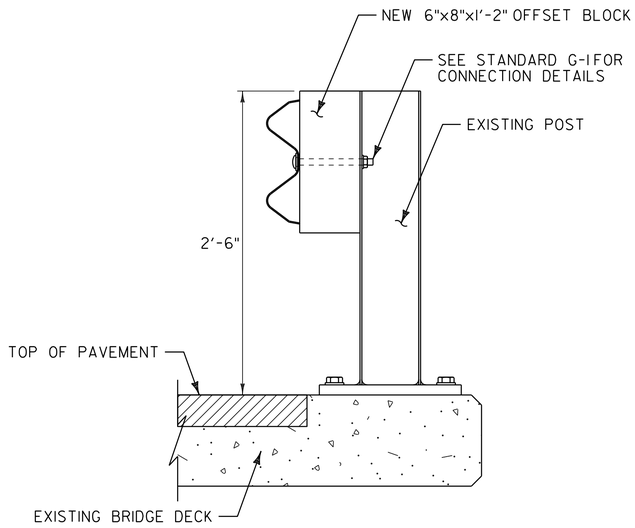
PROJECT NUMBER: STP 2705(1)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68bd4.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 84 OF 152



BR 1 CASTLETON STATE HIGHWAY MM 0.079 = STA 4+19.50



BR 1 BRIDGE RAILING DETAIL

NOTES:

1. SEE VAOT STANDARD SHEET SB-R6-82 FOR ADDITIONAL DETAILS.

2. THE CONTRACTOR SHALL INSTALL A NEW 16' RADIUS PANEL WITH ANCHORS AT EACH END AS DIRECTED BY THE RESIDENT ENGINEER.

NOT TO SCALE

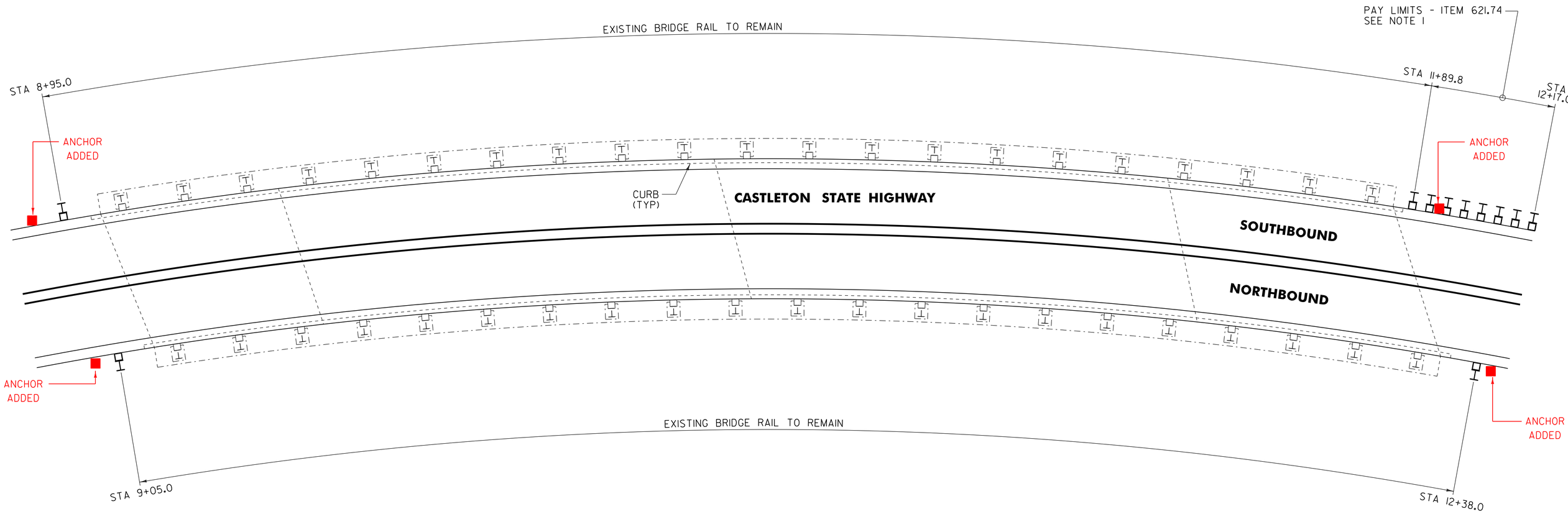
BRIDGE DETAIL SHEET #5

PROJECT NAME: CASTLETON - WEST RUTLAND

PROJECT NUMBER: STP 2705(1)

FILE NAME: p07c168.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07c168bd5.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 85 OF 152



BR 2 CASTLETON STATE HIGHWAY MM 0.201 = STA 10+61.28

NOTE:

1. REFERENCE THIS SHEET ALONG WITH SHEETS 76 THRU 78 FOR ALUMINUM APPROACH RAILING CONNECTION DETAILS.

NOT TO SCALE

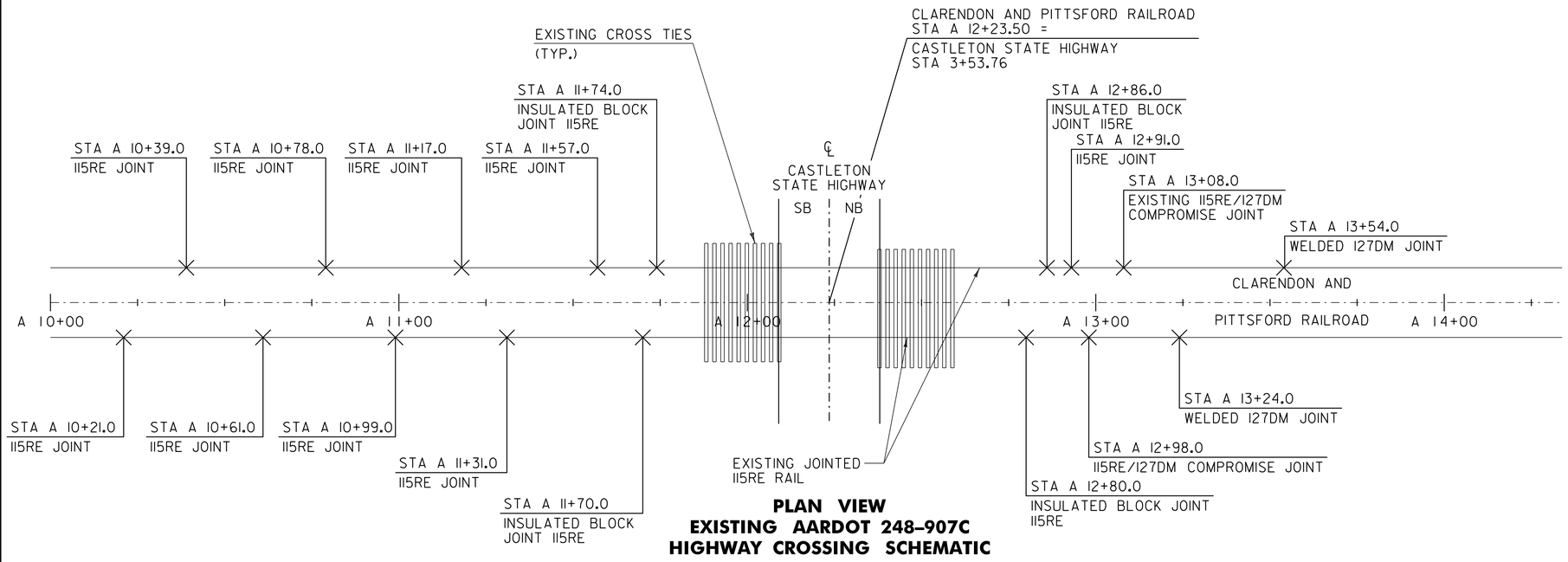
BRIDGE DETAIL SHEET #6

PROJECT NAME: CASTLETON - WEST RUTLAND

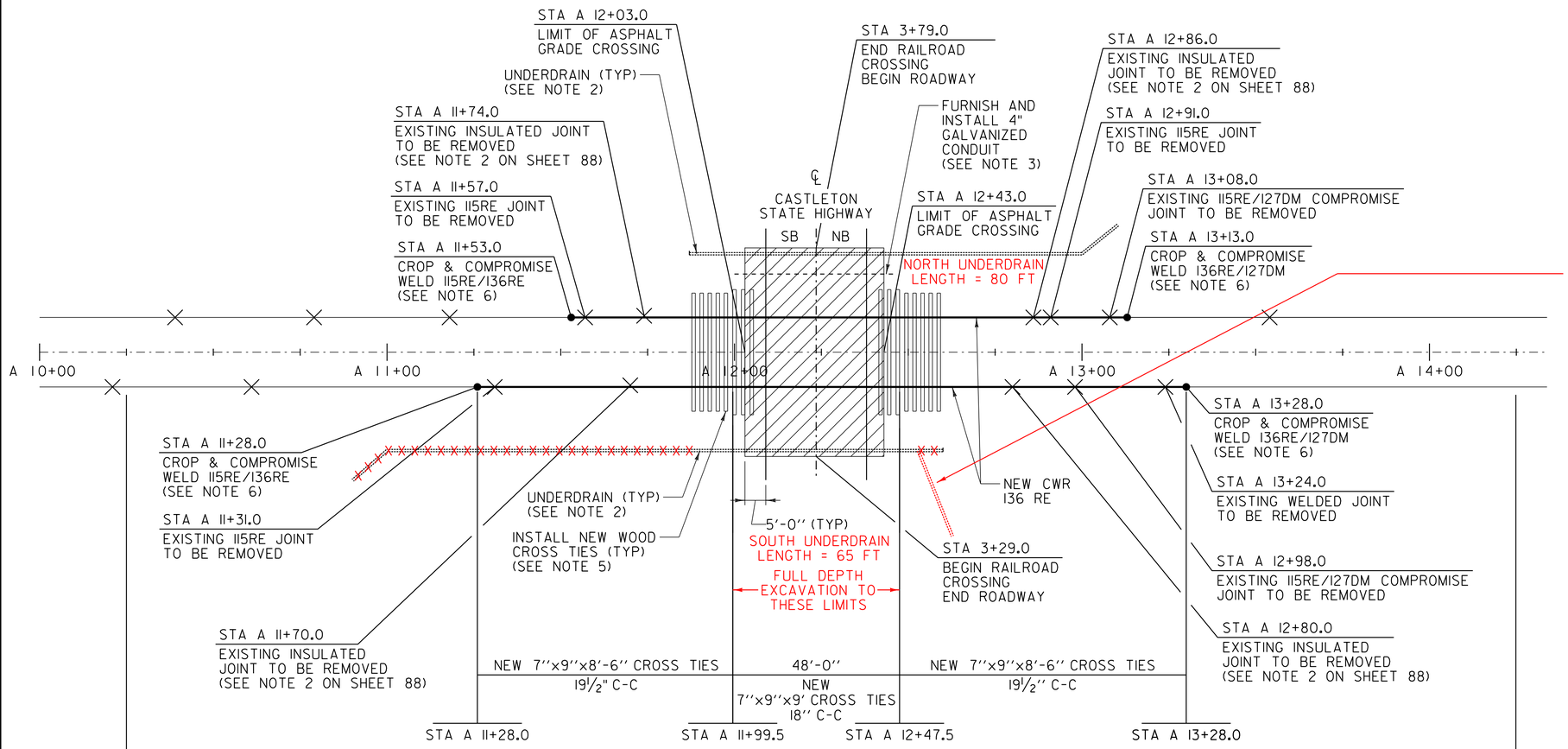
PROJECT NUMBER: STP 2705(1)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68bd6.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 86 OF 152



PLAN VIEW
EXISTING AARDOT 248-907C
HIGHWAY CROSSING SCHEMATIC



PLAN VIEW
PROPOSED AARDOT 248-907C
HIGHWAY CROSSING SCHEMATIC

NOTES:

1. SEE SHEET 88 FOR AARDOT 248-907C GRADE CROSSING DETAILS.
2. THE CONTRACTOR SHALL INSTALL UNDERDRAIN AS SHOWN IN THE PLANS PER SECTION 605 OF THE 2006 VAOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND GRADE TO DRAIN INTO THE EXISTING DITCHES LOCATED ALONG THE RAILROAD ROW AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT WILL BE MADE UNDER ITEM 605.10 6 INCH UNDERDRAIN PIPE.
3. CONDUIT SHALL BE 4 INCH DIAMETER RIGID GALVANIZED STEEL AS SHOWN IN SIGNAL CONDUIT DETAIL ON SHEET 88. CONDUIT SHALL EXTEND A MINIMUM OF 20 FEET BEYOND EDGE OF CROSSING. CONDUIT ENDS SHALL BE SEALED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AREMA SIGNAL MANUAL. PAYMENT INCLUDED UNDER ITEM 900.645 SPECIAL PROVISION (RAIL-HIGHWAY CROSSING ACTIVE WARNING SYSTEM) (AARDOT 248-907C).
4. TRACK SURFACING AND BALLAST REGULATING IS THE RESPONSIBILTY OF THE CONTRACTOR AND MUST BE COORDINATED WITH THE CLARENDON AND PITTSFORD RAILROAD PRIOR TO COMMENCING WORK AND SHALL BE PAID FOR UNDER ITEM 900.640 SPECIAL PROVISION (RESURFACE TRACK APPROACHES).
5. NEW 7"x9"x9' CROSS TIES SHALL BE INSTALLED WITHIN THE CROSSING AREA AS SHOWN ON THE PLANS. CROSS TIES LOCATED WITHIN THE APPROACH AREAS SHALL BE REPLACED WITH NEW 7"x9"x8'-6" TIES. ADDITIONAL TIES LOCATED WITHIN THE PROJECT AREA MAY NEED TO BE REPLACED WITH NEW 7"x9"x8'-6" TIES AS RECOMMENDED BY THE RAILROAD AND APPROVED BY THE RESIDENT ENGINEER. CROSS TIES SHALL BE PAID FOR UNDER ITEM 900.620 SPECIAL PROVISION (REMOVAL AND REPLACEMENT OF CROSS TIES).
6. EXISTING RAIL SHALL BE CROPPED AND FIELD WELDED TO THE NEW 136RE CWR AND SHALL BE PAID FOR UNDER ITEM 900.620 SPECIAL PROVISION (THERMITE WELDING) AS DIRECTED BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL TAKE PRECAUTIONS DURING FIELD WELDING OPERATIONS TO PREVENT DAMAGE TO THE RUBBER RAIL SEAL. THE CONTRACTOR SHALL REPLACE DAMAGED RUBBER RAIL SEAL AT THEIR OWN COST AS DIRECTED BY THE RESIDENT ENGINEER.
7. THE CONTRACTOR SHALL RAISE, ALIGN & SURFACE THE TRACK WITHIN THE APPROACH AREA PER ITEM 900.640 SPECIAL PROVISION (RESURFACE TRACK APPROACHES). SURFACING IS TO FINAL GRADE, MULTIPLE PASSES SHALL BE CONSIDERED INCIDENTAL TO ITEM 900.640 SPECIAL PROVISION (RESURFACE TRACK APPROACHES).

LEGEND

- EXISTING JOINT
- PROPOSED FIELD WELD
- EXISTING RAIL
- NEW 136 CWR
- AREA OF ASPHALT GRADE CROSSING
- UNDERDRAIN
- CROSS TIE

NOT TO SCALE

AARDOT 248-907C GRADE CROSSING SCHEMATIC SHEET

PROJECT NAME: CASTLETON - WEST RUTLAND

PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68rrl.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 87 OF 152

NOTES:

1. THE COST OF REMOVING THE EXISTING ASPHALT SURFACE AND PAVNG THE TWO LIFTS OF TYPE IIS BASE COURSE AT THE RAIL APPROACHES AND BETWEEN THE RAILS SHALL BE PAID FOR UNDER ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT. SEE SHEET 16 FOR PAVEMENT QUANTITY BREAKDOWN.

2. THE EXISTING GRADE CROSSING ISLAND CIRCUIT SHALL BE REMOVED AND REPLACED WITH A NEW ACTIVE WARNING SYSTEM. ALL COST ASSOCIATED WITH THE REMOVAL AND INSTALLATION OF THE NEW GRADE CROSSING ACTIVE WARNING SYSTEM SHALL BE PAID FOR UNDER ITEM 900.645 SPECIAL PROVISION (RAIL- HIGHWAY CROSSING ACTIVE WARNING SYSTEM) (AARDOT 248-907C) AS DIRECTED BY THE RESIDENT ENGINEER. SEE SHEET 89 FOR AARDOT 248-907C GRADE CROSSING SIGNAL SHEET.

3. THE CONTRACTOR SHALL INSTALL THE ELASTOMERIC INTERFACE RAIL SEAL CONNECTED BY AN INTERCLAMP DEVICE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THESE DETAILS DO NOT ILLUSTRATE THE INTERCLAMP DEVICES. NO VEHICULAR TRAFFIC IS ALLOWED OVER THE RAIL SEAL UNTIL FULL DEPTH PAVEMENT IS PLACED ON BOTH SIDES OF THE RAIL. ANY DAMAGE TO THE NEW ELASTOMERIC INTERFACE RESULTING FROM THE CONTRACTOR'S INSTALLATION METHODS SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE AS DIRECTED BY THE RESIDENT ENGINEER. THE COST OF FURNISHING AND INSTALLING THE ELASTOMERIC INTERFACE AND ATTACHMENT HARDWARE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 900.640 SPECIAL PROVISION (RUBBER RAIL SEAL).

4. TEN DAYS PRIOR TO BEGINNING WORK ON THIS RAIL CROSSING THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH CLARENDON AND PITTSFORD RAILROAD. THE CONTRACTOR IS RESPONSIBLE TO HAVE THE TRACK AND ALL ACTIVE WARNING DEVICES BACK IN SERVICE AT THE END OF EACH WORK DAY. THE COST FOR COORDINATION WITH CLARENDON AND PITTSFORD RAILROAD SHALL BE INCIDENTAL TO ITEM 900.645 SPECIAL PROVISION (MAINTENANCE OF RAILROAD TRAFFIC) (N.A.B.I.).

   THE CONTRACTOR SHALL COMPLETE ALL WORK ASSOCIATED WITH THIS CROSSING WITHIN FIVE CONTINUOUS WORKING DAYS. THE CONTRACTOR IS HEREBY NOTIFIED THAT LIQUIDATED DAMAGES IN ACCORDANCE WITH THE RAILROAD SPECIAL PROVISIONS WILL BE ASSESSED FOR EVERY CALENDAR DAY FOLLOWING THE FIVE CONSECUTIVE WORKDAY PERIOD THAT THE SPECIFIED WORK IS NOT COMPLETED.

5. TIE PLATES SHALL BE MINIMUM 14'' L x 7¾'' W NEW OR FIT DOUBLE SHOULDERED TO FIT THE BASE OF THE RAIL ON WHICH THEY WILL BE USED. EACH TIE PLATE SHALL HAVE AT LEAST 6 HOLES PUNCHED FOR THE USE OF ⅝'' TRACK SPIKES. FOUR OF THE HOLES SHALL BE SUCH THAT THEY ALLOW TWO RAIL HOLDING SPIKES ON EACH SIDE OF THE RAIL AND THERE SHALL ALSO BE AT LEAST TWO HOLES FOR PLATE HOLDING SPIKES. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TIE PLATES, SPIKES AND RAIL ANCHORS UNDER APPROPRIATE CROSS TIE ITEM 900.620 SPECIAL PROVISION (REMOVAL AND REPLACEMENT OF CROSS TIES).

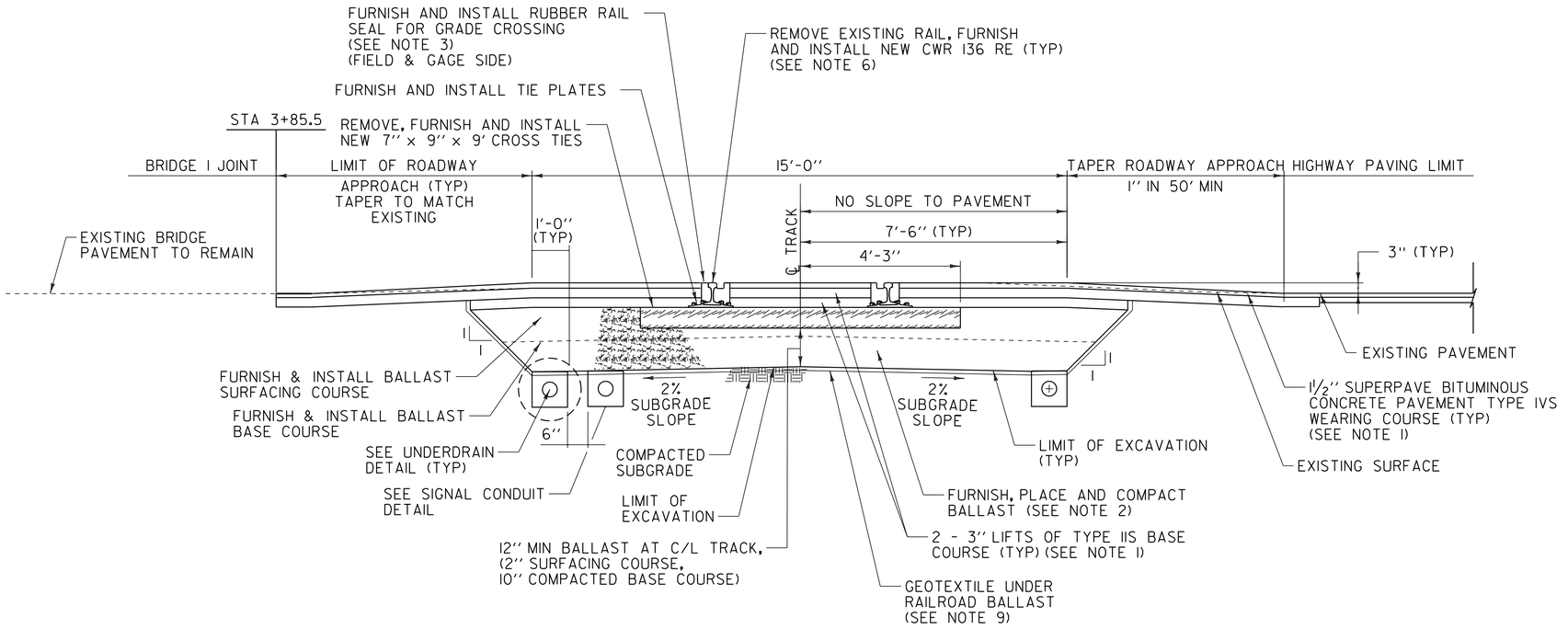
6. THE CONTRACTOR SHALL PROVIDE NEW 136 RE CWR AS SPECIFIED IN THE PLANS. RAIL WEIGHTS SHALL BE VERIFIED BY THE RAILROAD AND APPROVED BY THE RESIDENT ENGINEER.

7. THE COST FOR PROVIDING VEHICULAR TRAFFIC CONTROL DURING CONSTRUCTION OF THIS PAVED RAIL HIGHWAY CROSSING SHALL BE CONSIDERED INCIDENTAL TO ITEM 641.10 TRAFFIC CONTROL (STP 2705(I)).

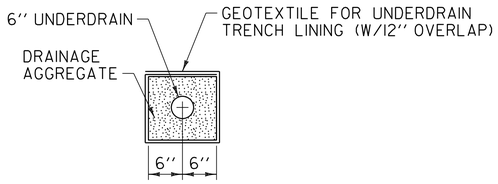
8. UNCLASSIFIED EXCAVATION SHALL CONSIST OF THE EXCAVATION AND DISPOSAL FROM THE WORK SITE ALL MATERIALS OF ANY DESCRIPTION ENCOUNTERED IN THE COURSE OF CONSTRUCTION, AND SHALL BE PAID FOR UNDER ITEM 203.17 UNCLASSIFIED EXCAVATION.

9. THE CONTRACTOR SHALL INSTALL GEOTEXTILE UNDER THE RAILROAD BALLAST WITHIN THE LIMITS OF THE CROSSING PER SECTION 649 OF THE 2006 VTRANS STANDARD SPECIFICATIONS FOR CONSTRUCTION OR AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT WILL BE MADE UNDER ITEM 649.21 GEOTEXTILE UNDER RAILROAD BALLAST.

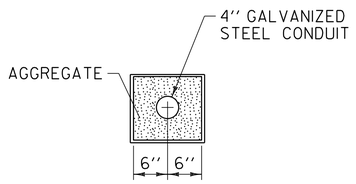
10. BALLAST MATERIAL SUPPLIED MUST BE APPROVED BY THE CLARENDON AND PITTSFORD RAILROAD PRIOR TO ITS ACCEPTANCE. BALLAST SURFACING AND BALLAST BASE COURSE TO BE PAID FOR UNDER ITEM 900.680 SPECIAL PROVISION (RAILROAD BALLAST). THE OWNER (CLP) AND THE RESIDENT ENGINEER RESERVE THE RIGHT TO SAMPLE AND TEST THE STONE BALLAST UP TO AND INCLUDING THE POINT OF USE.



TYPICAL SECTION – ASPHALT GRADE CROSSING



UNDERDRAIN WITH GEOTEXTILE



SIGNAL CONDUIT DETAIL

AARDOT 248-907C GRADE CROSSING QUANTITIES

ITEM	DESCRIPTION	UNIT	QTY
203.17	UNCLASSIFIED EXCAVATION	CY	80
204.20	TRENCH EXCAVATION OF EARTH	CY	30
490.30	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	TON	95
605.10	6 INCH UNDERDRAIN PIPE	LF	300
649.21	GEOTEXTILE UNDER RAILROAD BALLAST	SY	85
900.620	SPECIAL PROVISION (REMOVAL AND REPLACEMENT OF CROSS TIES)	EA	157
900.620	SPECIAL PROVISION (THERMITE WELDING)	EA	4
900.640	SPECIAL PROVISION (CONTINUOUS WELDED RAIL)	LF	360
900.640	SPECIAL PROVISION (RESURFACE TRACK APPROACHES) *	LF	400
900.640	SPECIAL PROVISION (RUBBER RAIL SEAL)	LF	100
900.645	SPECIAL PROVISION (RAIL-HIGHWAY CROSSING ACTIVE WARNING SYSTEM) (AARDOT 248-907C)	LS	1
900.650	SPECIAL PROVISION (MAINTENANCE OF RAILROAD TRAFFIC) (N.A.B.I.)	LU	1
900.680	SPECIAL PROVISION (RAILROAD BALLAST)	TON	150

RESURFACING SHALL BE MEASURED IN TRACK FEET & SHALL BE TO FINAL GRADE

*

NOT TO SCALE

AARDOT 248-907C GRADE CROSSING DETAIL SHEET

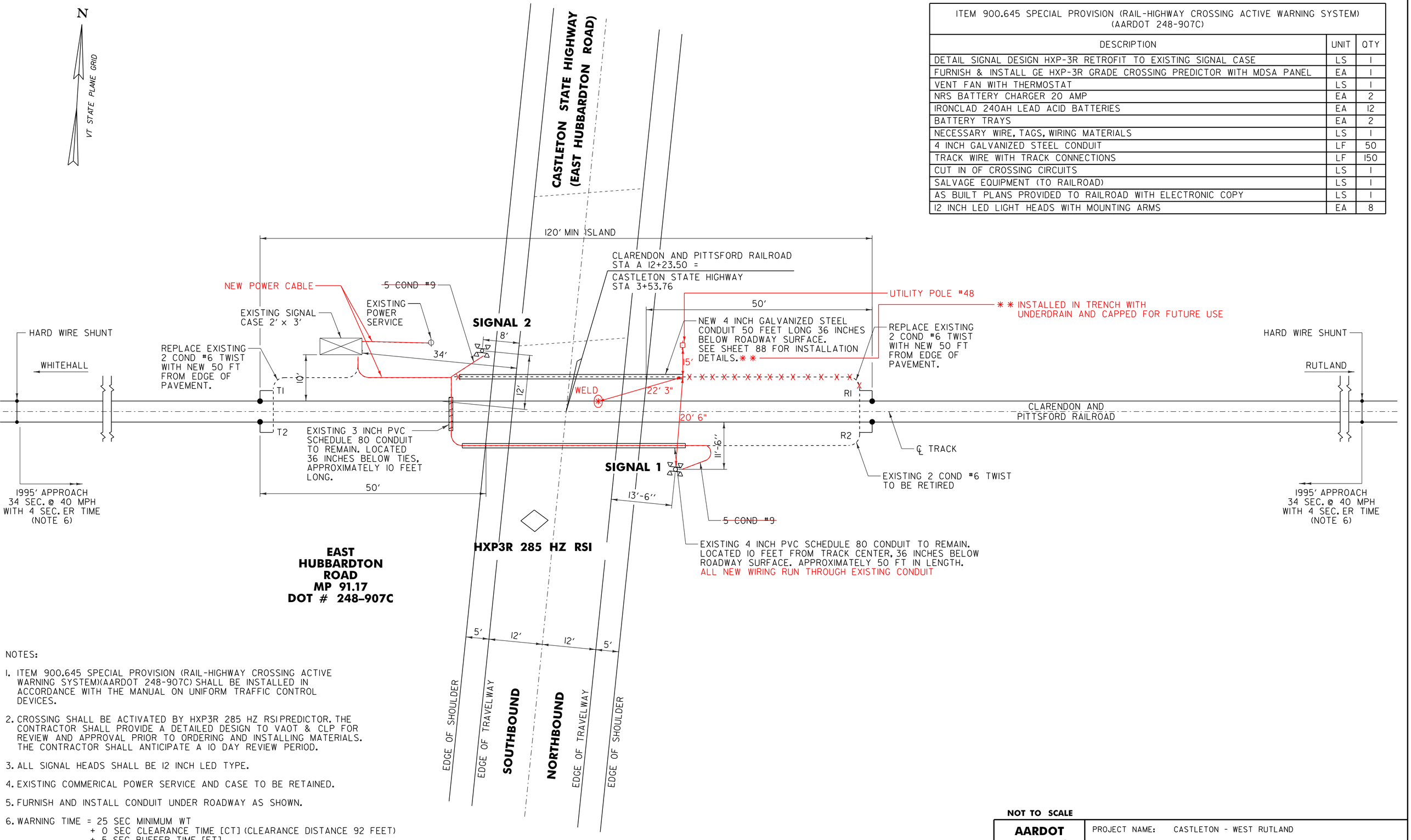
PROJECT NAME: CASTLETON - WEST RUTLAND

PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68rr2.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 88 OF 152

ITEM 900.645 SPECIAL PROVISION (RAIL-HIGHWAY CROSSING ACTIVE WARNING SYSTEM) (AARDOT 248-907C)		
DESCRIPTION	UNIT	QTY
DETAIL SIGNAL DESIGN HXP-3R RETROFIT TO EXISTING SIGNAL CASE	LS	1
FURNISH & INSTALL GE HXP-3R GRADE CROSSING PREDICTOR WITH MDSA PANEL	EA	1
VENT FAN WITH THERMOSTAT	LS	1
NRS BATTERY CHARGER 20 AMP	EA	2
IRONCLAD 240AH LEAD ACID BATTERIES	EA	12
BATTERY TRAYS	EA	2
NECESSARY WIRE, TAGS, WIRING MATERIALS	LS	1
4 INCH GALVANIZED STEEL CONDUIT	LF	50
TRACK WIRE WITH TRACK CONNECTIONS	LF	150
CUT IN OF CROSSING CIRCUITS	LS	1
SALVAGE EQUIPMENT (TO RAILROAD)	LS	1
AS BUILT PLANS PROVIDED TO RAILROAD WITH ELECTRONIC COPY	LS	1
12 INCH LED LIGHT HEADS WITH MOUNTING ARMS	EA	8



NOTES:

1. ITEM 900.645 SPECIAL PROVISION (RAIL-HIGHWAY CROSSING ACTIVE WARNING SYSTEM)(AARDOT 248-907C) SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

2. CROSSING SHALL BE ACTIVATED BY HXP3R 285 HZ RSI PREDICTOR. THE CONTRACTOR SHALL PROVIDE A DETAILED DESIGN TO VAOT & CLP FOR REVIEW AND APPROVAL PRIOR TO ORDERING AND INSTALLING MATERIALS. THE CONTRACTOR SHALL ANTICIPATE A 10 DAY REVIEW PERIOD.

3. ALL SIGNAL HEADS SHALL BE 12 INCH LED TYPE.

4. EXISTING COMMERICAL POWER SERVICE AND CASE TO BE RETAINED.

5. FURNISH AND INSTALL CONDUIT UNDER ROADWAY AS SHOWN.

6. WARNING TIME = 25 SEC MINIMUM WT
   + 0 SEC CLEARANCE TIME [CT] (CLEARANCE DISTANCE 92 FEET)
   + 5 SEC BUFFER TIME [FT]
   = 30 SEC DESIGNED WARNING TIME

   + 4 SECONDS EQUIPMENT RESPONSE TIME [ERT]
   = 34 SECONDS OR 1995 FEET AT 40 MPH

7. SEE SHEETS 87 & 88 FOR PROPOSED GRADE CROSSING SURFACE TREATMENT.

NOT TO SCALE

AARDOT 248-907C GRADE CROSSING SIGNAL SHEET

PROJECT NAME: CASTLETON - WEST RUTLAND

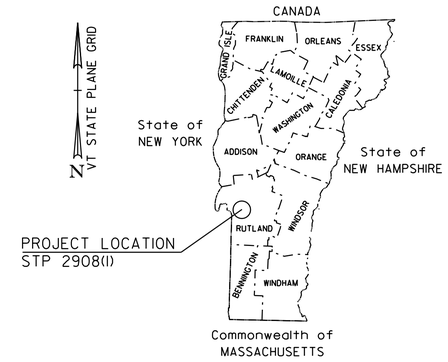
PROJECT NUMBER: STP 2705(I)

FILE NAME: p07cl68.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: S.L.W.
IPARM FILE: p07cl68rr3.i

PLOT DATE: 04-JUN-2013 09:16
DRAWN BY: W.G.P.
CHECKED BY: S.L.W.

STATE OF VERMONT
AGENCY OF TRANSPORTATION

INDEX OF SHEETS
SEE SHEET 2

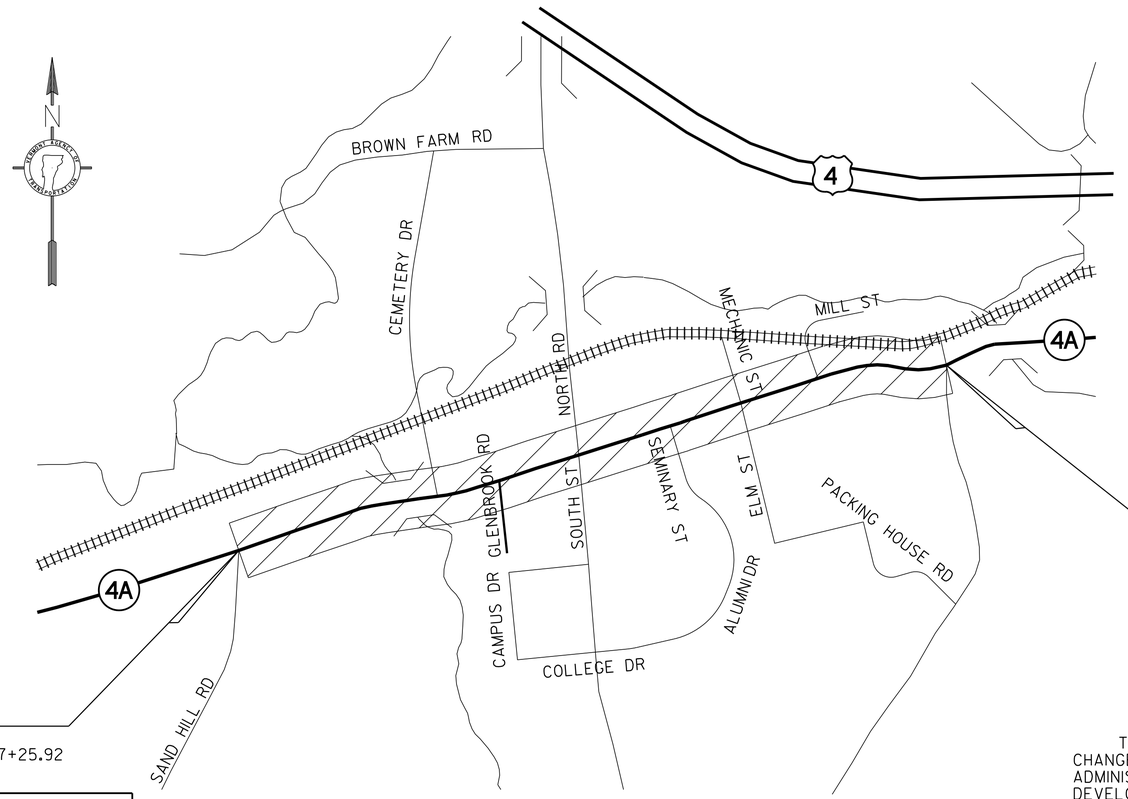


PROPOSED IMPROVEMENT
TOWN OF CASTLETON
CLASS I TOWN HIGHWAY
COUNTY OF RUTLAND
VT. ROUTE 4A

BEGINNING IN TOWN OF CASTLETON ON VT. ROUTE 4A AT MILE MARKER 2.789 = STA 147+25.92 AND EXTENDING EASTERLY FOR A DISTANCE OF 5623.20 FEET (1.065 MILES) TO A POINT IN THE TOWN OF CASTLETON AT MILE MARKER 3.854 = STA 203+49.12

LENGTH OF ROADWAY 5623.20 FT (1.065 MILES)
LENGTH OF PROJECT 5623.20 FT (1.065 MILES)

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING AND RESURFACING OF THE EXISTING HIGHWAY WITH A SHIM/LEVELING COURSE AND WEARING COURSE, NEW PAVEMENT MARKINGS, DRAINAGE IMPROVEMENTS, SIDEWALK RAMPS, NEW SIGNS AND INCIDENTAL ITEMS.



BITUMINOUS CONCRETE SUPERPAVE MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESAL	58-28
DESIGN NUMBER OF GYRATIONS	65
PERFORMANCE GRADE ASPHALT BINDER	SEE SECTION 490 GENERAL SPECIAL PROVISIONS & SPECIAL PROVISIONS

TRAFFIC DATA

LOCATION	AADT		DHV		ESALs	ESALs
	2012	2022	2012	2022	2012~2022	2012~2032
BEGIN PROJECT TO NORTH RD / SOUTH ST	3800	4000	430	450	716,000	1,551,000
NORTH RD / SOUTH ST TO END PROJECT	4100	4300	460	480	492,000	1,131,000

QUALITY ASSURANCE PROGRAM: LEVEL 3

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 (SR SR SR)
TOP OF CUT
TOE OF SLOPE

SURVEYED BY : NA
SURVEYED DATE : NA

DATUM
VERTICAL NA
HORIZONTAL NA

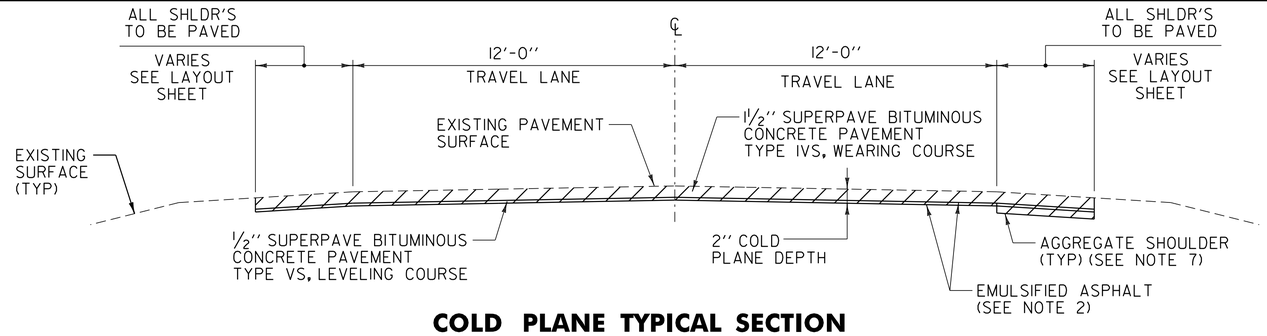
THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.

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.

PROJECT MANAGER : MIKE FOWLER

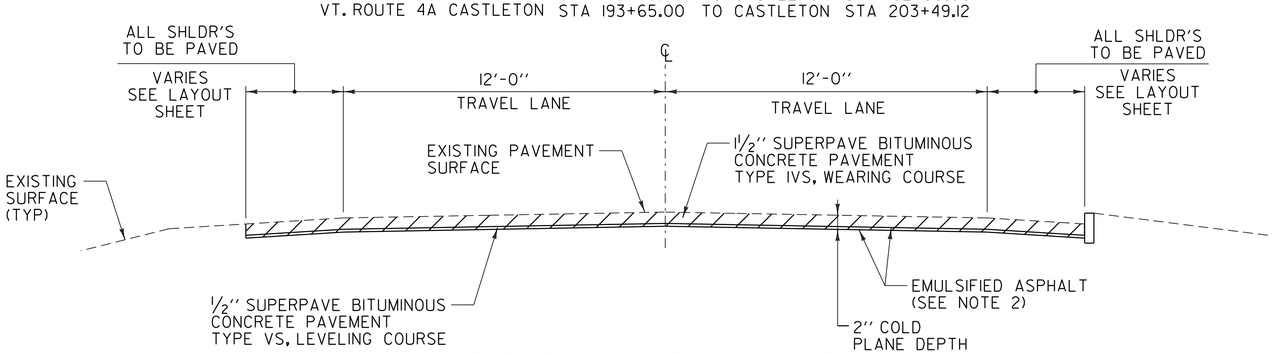
PROJECT NAME : CASTLETON
PROJECT NUMBER : STP 2908(I)

SHEET 90 OF 152 SHEETS



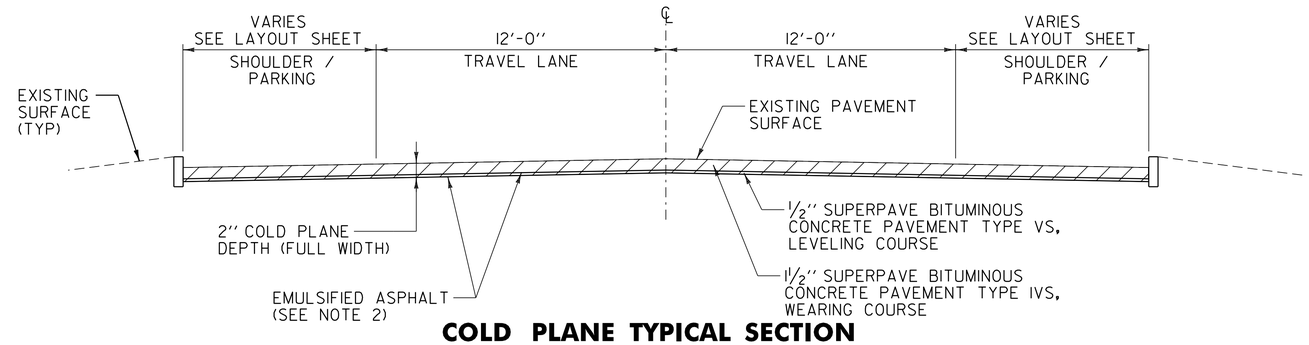
COLD PLANE TYPICAL SECTION

VT. ROUTE 4A CASTLETON STA 147+25.92 TO CASTLETON STA 157+30.00
VT. ROUTE 4A CASTLETON STA 183+85.00 TO CASTLETON STA 192+50.00
VT. ROUTE 4A CASTLETON STA 193+65.00 TO CASTLETON STA 203+49.12



COLD PLANE TYPICAL SECTION

VT. ROUTE 4A CASTLETON STA 157+30.00 TO CASTLETON STA 159+13.00
VT. ROUTE 4A CASTLETON STA 159+29.00 TO CASTLETON STA 161+90.00
VT. ROUTE 4A CASTLETON STA 183+35.00 TO CASTLETON STA 183+85.00
VT. ROUTE 4A CASTLETON STA 192+50.00 TO CASTLETON STA 193+65.00



COLD PLANE TYPICAL SECTION

VT. ROUTE 4A CASTLETON STA 161+90.00 TO CASTLETON STA 183+35.00

PROJECT PAVING LIMITS

TOWN & ROUTE	BEGIN STATION	END STATION	WARM-MIX TECHNOLOGIES	LANE TYPICAL	WEARING DEPTH	LEVELING TON	NOTES
CASTLETON:							
VT. ROUTE 4A	147+25.92	157+30.00	FOAMING PROCESS	4'-0" - 12'-0" - 12'-0" - 4'-0"	1½"	105	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	157+30.00	159+13.00	FOAMING PROCESS	4'-0" - 12'-0" - 12'-0" - 4'-0"	1½"	24	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	159+13.00	159+29.00	FOAMING PROCESS	8'-0" - 12'-0" - 12'-0" - 8'-0"	1¼"	-	BR 5 COLD PLANE 1¼" & PAVE WITH 1¼" TYPE IVS
VT. ROUTE 4A	159+29.00	161+90.00	FOAMING PROCESS	8'-0" - 12'-0" - 12'-0" - 8'-0"	1½"	34	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	161+90.00	164+25.00	FOAMING PROCESS	8'-0" - 12'-0" - 12'-0" - 8'-0"	1½"	31	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	164+25.00	169+75.00	FOAMING PROCESS	8'-0" - 12'-0" - 12'-0" - 17'-0"	1½"	88	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	169+75.00	172+30.00	FOAMING PROCESS	11'-0" - 12'-0" - 12'-0" - 17'-0"	1½"	43	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	172+30.00	177+60.00	FOAMING PROCESS	13'-0" - 12'-0" - 12'-0" - 17'-0"	1½"	93	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	177+60.00	182+05.00	FOAMING PROCESS	VARIES SEE PLAN	1½"	96	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	182+05.00	183+35.00	FOAMING PROCESS	15'-0" - 12'-0" - 12'-0" - 15'-0"	1½"	23	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	183+35.00	183+85.00	FOAMING PROCESS	15'-0" - 12'-0" - 12'-0" - 15'-0"	1½"	9	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	183+85.00	187+25.00	FOAMING PROCESS	15'-0" - 12'-0" - 12'-0" - 15'-0"	1½"	56	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	187+25.00	191+10.00	FOAMING PROCESS	12'-0" - 12'-0" - 12'-0" - 12'-0"	1½"	61	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	191+10.00	192+50.00	FOAMING PROCESS	VARIES SEE PLAN	1½"	24	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	192+50.00	193+65.00	FOAMING PROCESS	VARIES SEE PLAN	1½"	19	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	193+65.00	197+10.00	FOAMING PROCESS	VARIES SEE PLAN	1½"	54	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	197+10.00	202+95.00	FOAMING PROCESS	10'-0" - 12'-0" - 12'-0" - 10'-0"	1½"	83	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS
VT. ROUTE 4A	202+95.00	203+49.12	FOAMING PROCESS	4'-0" - 12'-0" - 12'-0" - 4'-0"	1½"	7	COLD PLANE 2", LEVEL WITH ½" TYPE VS & PAVE WITH 1½" TYPE IVS

NOTES

1. THE WEARING COURSE SHALL BE TYPE IVS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT. THE LEVELING COURSE SHALL BE TYPE VS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
2. COLD PLANED SURFACES SHALL HAVE A TACK COAT APPLICATION RATE OF 0.08 GAL/SQ. YD. OF CRSI-H OR RSI-H. TACK COAT APPLICATION RATE ON ALL OTHER PAVED SURFACES SHALL BE 0.025 TO 0.040 GAL/SQ. YD. OF CRSI-H OR RSI-H.
3. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = +/- ¼" (TOTAL PAVEMENT THICKNESS EXCLUDING LEVELING).
4. COLD PLANING SHALL BE COMPLETED AS NOTED ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.
5. ALL EDGES OF PAVEMENT SHALL BE BACKED UP TO FULL HEIGHT WITH AGGREGATE SHOULDER MATERIAL AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER ITEM 402.12 AGGREGATE SHOULDERS.
6. 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.
7. 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 ITEM 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I OR ITEM 608.15 POWER GRADER RENTAL. MATERIAL REMOVED SHALL BE REPLACED WITH ITEM 301.40 SUBBASE, RAP. EXCAVATED MATERIAL SHALL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM THE PROJECT AS DIRECTED BY THE RESIDENT ENGINEER.
8. THE WEARING COURSE OF ALL OF CONTRACT ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, SHALL UTILIZE THE REQUIREMENTS OF ITEM 900.645, SPECIAL PROVISION (INTELLIGENT COMPACTION EQUIPMENT) AS CONTAINED WITHIN THE CONTRACT DOCUMENTS. ALL OTHER CONTRACT PROVISIONS ASSOCIATED WITH ITEM 490.30 SHALL APPLY IN CONJUCTION WITH THE REQUIREMENTS OF ITEM 900.645.

SEEDING FORMULA

RATE: DOUBLE IF HYDROSEEDING

% WT.	LBS./A.	NAME	PUR %	GERM %
38	32	CREEPING RED FESCUE	98	90
29	24	SPARTAN HARD FESCUE	95	85
15	12	AZAY SHEEP'S FESCUE	95	87
15	12	ANNUAL RYE GRASS	95	90
3	--	INERTS	--	--
100.0	80			

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

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

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

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

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

HAY MULCH:
TO BE APPLIED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE RESIDENT ENGINEER.

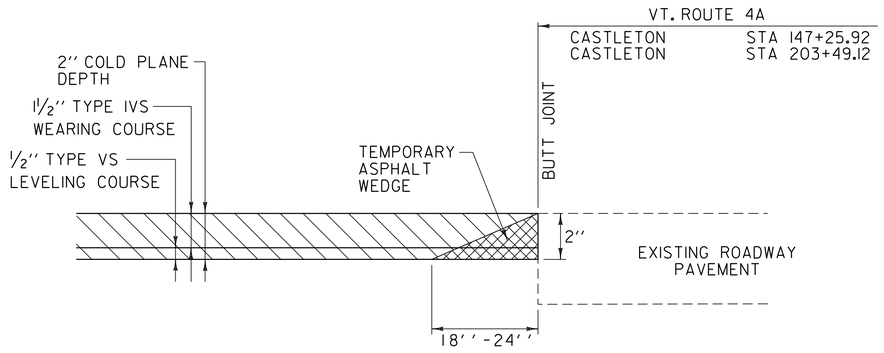
NOT TO SCALE

PROJECT TYPICAL SHEET

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2908(I)

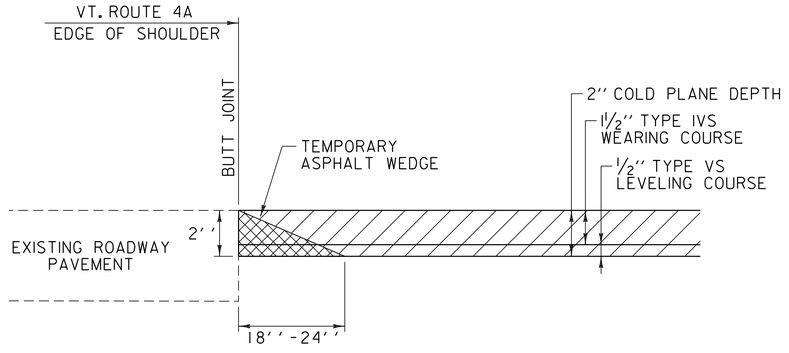
FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210typ.i

PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 91 OF 152



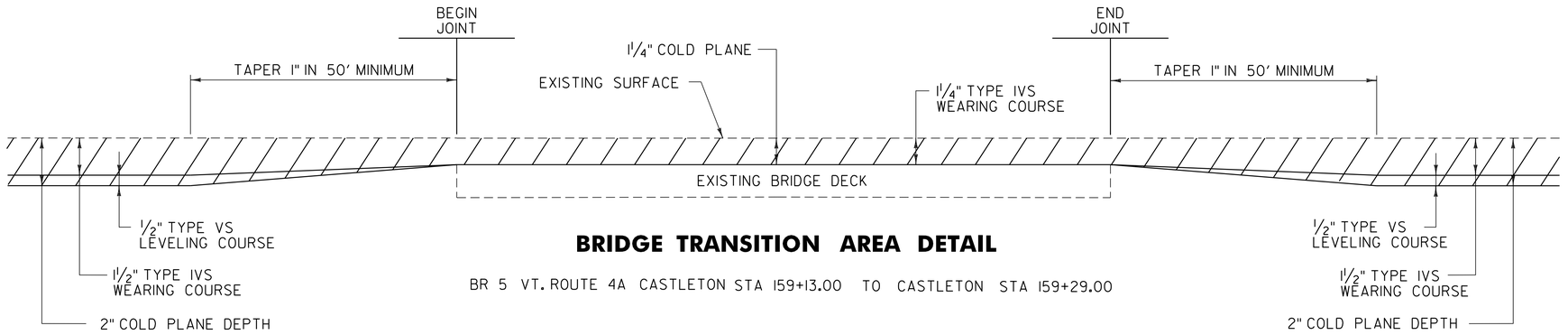
COLD PLANE APPROACH AREA DETAIL

VT. ROUTE 4A CASTLETON STA 147+25.92 - BEGIN PROJECT
VT. ROUTE 4A CASTLETON STA 203+49.12 - END PROJECT



COLD PLANE SIDE ROAD DETAIL

CASTLETON:	TH-5	STA 159+77.28 LT
	TH-11	STA 165+73.92 RT
	TH-5	STA 171+38.88 LT
	TH-4	STA 171+38.88 RT
	TH-10	STA 176+24.64 RT
	TH-9	STA 179+30.88 RT
	TH-6	STA 179+62.56 LT
	TH-7	STA 190+76.64 LT



BRIDGE TRANSITION AREA DETAIL

BR 5 VT. ROUTE 4A CASTLETON STA 159+13.00 TO CASTLETON STA 159+29.00

NOT TO SCALE

PAVING DETAILS SHEET

PROJECT NAME: CASTLETON

PROJECT NUMBER: STP 2908(I)

FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210pd.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 92 OF 152

STATION	POSITION	QUANTITY (SY)	TYPE OF HANDWORK
CASTLETON VT. ROUTE 4A:			
148+45	LT	15	GRAVEL DRIVE
149+25	LT	15	GRAVEL DRIVE
149+81	RT	19	GRAVEL DRIVE
150+95	LT	7	GRAVEL DRIVE
151+53	RT	17	GRAVEL DRIVE
153+10	LT	9	ASPHALT DRIVE
153+19	RT	11	GRAVEL DRIVE
153+87	LT	6	GRAVEL DRIVE
154+60	LT	9	GRAVEL DRIVE
154+92	RT	9	ASPHALT DRIVE
155+62	LT	5	GRAVEL DRIVE
156+36	RT	9	ASPHALT DRIVE
156+71	RT	11	GRAVEL DRIVE
157+23	RT	5	GRAVEL DRIVE
157+34	LT	8	ASPHALT DRIVE
158+04	RT	10	GRAVEL DRIVE
158+35	LT	7	ASPHALT DRIVE
161+28	RT	6	GRAVEL DRIVE
161+63	LT	16	GRAVEL DRIVE
162+70	RT	6	GRAVEL DRIVE
164+04	RT	8	GRAVEL DRIVE
164+92	LT	7	GRAVEL DRIVE
165+48	LT	6	GRAVEL DRIVE
166+23	LT	7	ASPHALT DRIVE
167+07	LT	5	ASPHALT DRIVE
167+52	RT	5	GRAVEL DRIVE
168+47	RT	8	GRAVEL DRIVE
168+69	LT	5	ASPHALT DRIVE
169+66	LT	11	ASPHALT DRIVE
170+08	RT	6	ASPHALT DRIVE
170+80	LT	10	ASPHALT DRIVE
173+29	LT	6	GRAVEL DRIVE
173+87	RT	8	ASPHALT DRIVE
174+67	RT	5	GRAVEL DRIVE
174+72	LT	7	GRAVEL DRIVE
175+65	LT	4	GRAVEL DRIVE
176+23	LT	4	GRAVEL DRIVE
176+75	LT	8	GRAVEL DRIVE
177+52	RT	8	GRAVEL DRIVE
178+30	RT	16	ASPHALT DRIVE
178+85	LT	6	ASPHALT DRIVE
180+28	RT	17	ASPHALT DRIVE
180+78	LT	4	GRAVEL DRIVE
181+20	RT	14	ASPHALT DRIVE
181+66	LT	7	ASPHALT DRIVE
181+74	RT	28	ASPHALT DRIVE
181+87	LT	7	ASPHALT DRIVE
182+23	RT	5	ASPHALT DRIVE
182+64	LT	5	GRAVEL DRIVE
183+42	LT	8	GRAVEL DRIVE
184+06	RT	7	GRAVEL DRIVE
184+30	RT	8	ASPHALT DRIVE
184+63	LT	7	ASPHALT DRIVE
185+12	RT	8	ASPHALT DRIVE
185+72	RT	7	GRAVEL DRIVE
186+54	RT	8	ASPHALT DRIVE
187+52	LT	5	GRAVEL DRIVE
187+52	RT	5	GRAVEL DRIVE
188+14	RT	8	GRAVEL DRIVE
189+04	RT	8	ASPHALT DRIVE
190+74	RT	6	GRAVEL DRIVE
191+29	RT	7	GRAVEL DRIVE
191+63	LT	6	ASPHALT DRIVE
191+91	LT	4	GRAVEL DRIVE
192+36	RT	11	GRAVEL DRIVE

STATION	POSITION	QUANTITY (SY)	TYPE OF HANDWORK
CASTLETON VT. ROUTE 4A (CONTINUED):			
192+64	LT	4	GRAVEL DRIVE
193+10	LT	6	GRAVEL DRIVE
193+28	LT	6	GRAVEL DRIVE
194+11	LT	6	GRAVEL DRIVE
195+07	LT	4	GRAVEL DRIVE
196+08	RT	4	GRAVEL DRIVE
196+73	LT	12	ASPHALT DRIVE
197+46	LT	53	GRAVEL DRIVE
199+41	RT	12	GRAVEL DRIVE
200+79	LT	28	ASPHALT DRIVE
202+81	LT	8	GRAVEL DRIVE
SUBTOTAL:		693	
ROUNDING:		57	
TOTAL ITEM 900.675:		750	

NOTE:

1. SEE SHEET 7 FOR DRIVEWAY HANDWORK DETAILS.

DRIVEWAY HANDWORK TABLES SHEET

PROJECT NAME: CASTLETON

PROJECT NUMBER: STP 2908(I)

FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210dht.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 93 OF 152

QUANTITY SHEET 1

STATE OF VERMONT
AGENCY OF TRANSPORTATION

SUMMARY OF ESTIMATED QUANTITIES

NON-PARTICIPATING	BRIDGE	FULL C.E.	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
			35	35	CY	COMMON EXCAVATION	203.15	2.4
			1	1	CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	
			30,750	30,750	SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	318
			70	70	TON	SUBBASE, RAP	301.40	3
			225	225	TON	AGGREGATE SHOULDERS	402.12	EST.
			1	1	LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	
			855	855	TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	5
			1	1	LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	
	50			50	LF	REMOVAL OF EXISTING RAILING	525.10	
	50			50	LF	BRIDGE RAILING REPAIR, TYPE 1	525.50	
			11	11	EA	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	
			2	2	EA	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II	604.415	
			2	2	EA	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS III	604.418	
			29	29	EA	CHANGING ELEVATION OF SEWER MANHOLES	604.42	
			30	30	HR	POWER GRADER RENTAL	608.15	EST.
			10	10	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE 1	608.25	EST.
			10	10	HR	POWER BROOM RENTAL, TYPE 1	608.30	EST.
			50	50	HR	POWER BROOM RENTAL, TYPE II	608.31	EST.
			20	20	HR	TRUCK RENTAL	608.37	EST.
			30	30	HR	LOADER RENTAL, TYPE 1	608.40	EST.
			25	25	CY	STONE FILL, TYPE 1	613.10	EST.
			100	100	LF	CAST-IN-PLACE CONCRETE CURB, TYPE B	616.28	2
			15	15	LF	REMOVING AND RESETTING CURB	616.40	3
			110	110	SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.10	2.9
			180	180	SF	DETECTABLE WARNING SURFACE	618.30	
			10	10	EA	YIELDING MARKER POSTS	619.17	EST.
			250	250	LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	13
			175	175	LF	HD STEEL BEAM GUARDRAIL, GALVANIZED	621.21	12.5
			2	2	EA	TERMINAL CONNECTOR FOR STEEL BEAM GUARDRAIL	621.53	
			6	6	EA	ANCHOR FOR STEEL BEAM RAIL	621.60	
			375	375	LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	23

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		COLD PLANING, BITUMINOUS PAVEMENT
29,151	SY	MAINLINE
1281	SY	SIDEROADS
318	SY	ROUNDING
30,750	SY	TOTAL
		SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
850	TON	LEVELING COURSE (TYPE VS)
5	TON	ROUNDING
855	TON	TOTAL
		AGGREGATE SHOULDERS
225	TON	SHOULDER BACKUPS
225	TON	TOTAL

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

QUANTITY SHEET #1

PROJECT NAME: CASTLETON

PROJECT NUMBER: STP 2908(11)

FILE NAME: p10c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c210gsl.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 94 OF 152

QUANTITY SHEET 2

STATE OF VERMONT
AGENCY OF TRANSPORTATION

SUMMARY OF ESTIMATED QUANTITIES

BRIDGE	FULL C.E.	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
		26	26	EA	ADJUST ELEVATION OF VALVE BOX	629.20	
		600	600	HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.
		900	900	HR	FLAGGERS	630.15	EST.
	0.33		0.33	LS	FIELD OFFICE, ENGINEERS	631.10	
	0.33		0.33	LS	TESTING EQUIPMENT, CONCRETE	631.16	
	0.33		0.33	LS	TESTING EQUIPMENT, BITUMINOUS	631.17	
	1000		1000	DL	FIELD OFFICE, TELEPHONE (N.A.B.I.)	631.26	
		0.33	0.33	LS	MOBILIZATION/DEMOBILIZATION	635.11	
		1	1	LS	TRAFFIC CONTROL (STP 2908(I))	641.10	
		0.33	0.33	LS	PUBLIC RELATIONS OFFICER	641.12	
		1	1	EA	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	
					BEGIN OPTION AA		
		13,250	13,250	LF	DURABLE 4 INCH WHITE LINE, THERMOPLASTIC	646.402	118
		13,250	13,250	LF	DURABLE 4 INCH WHITE LINE, EPOXY PAINT	646.403	118
		13,250	13,250	LF	DURABLE 4 INCH WHITE LINE, POLYUREA	646.404	118
					END OPTION AA		
					BEGIN OPTION BB		
		11,600	11,600	LF	DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC	646.412	164
		11,600	11,600	LF	DURABLE 4 INCH YELLOW LINE, EPOXY PAINT	646.413	164
		11,600	11,600	LF	DURABLE 4 INCH YELLOW LINE, POLYUREA	646.414	164
					END OPTION BB		
					BEGIN OPTION EE		
		825	825	LF	DURABLE 8 INCH WHITE LINE, THERMOPLASTIC	646.442	36
		825	825	LF	DURABLE 8 INCH WHITE LINE, EPOXY PAINT	646.443	36
		825	825	LF	DURABLE 8 INCH WHITE LINE, POLYUREA	646.444	36
					END OPTION EE		
					BEGIN OPTION HH		
		90	90	LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482	9
		90	90	LF	DURABLE 24 INCH STOP BAR, EPOXY PAINT	646.483	9
		90	90	LF	DURABLE 24 INCH STOP BAR, POLYUREA	646.484	9
					END OPTION HH		
					BEGIN OPTION II		
		28	28	EA	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	
		28	28	EA	DURABLE LETTER OR SYMBOL, EPOXY PAINT	646.493	
					END OPTION II		
					BEGIN OPTION JJ		
		425	425	LF	DURABLE CROSSWALK MARKING, THERMOPLASTIC	646.502	11
		425	425	LF	DURABLE CROSSWALK MARKING, EPOXY PAINT	646.503	11
					END OPTION JJ		
		26,500	26,500	LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.602	EST.
		23,200	23,200	LF	TEMPORARY 4 INCH YELLOW LINE, PAINT	646.612	EST.
		180	180	LF	TEMPORARY 24 INCH STOP BAR, PAINT	646.682	EST.
		56	56	EA	TEMPORARY LETTER OR SYMBOL, PAINT	646.692	EST.
		850	850	LF	TEMPORARY CROSSWALK MARKING, PAINT	646.702	EST.

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

QUANTITY SHEET #2

PROJECT NAME: CASTLETON

PROJECT NUMBER: STP 2908(I)

FILE NAME: p10c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c210qs2.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 95 OF 152

QUANTITY SHEET 3

STATE OF VERMONT
AGENCY OF TRANSPORTATION

SUMMARY OF ESTIMATED QUANTITIES

BRIDGE	FULL C.E.	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
		850	850	EA	LINE STRIPING TARGETS	646.76	EST.
		50	50	SY	GEOTEXTILE UNDER STONE FILL	649.31	EST.
		50	50	LB	SEED	651.15	EST.
		400	400	LB	FERTILIZER	651.18	EST.
		1	1	TON	AGRICULTURAL LIMESTONE	651.20	EST.
		1	1	TON	HAY MULCH	651.25	EST.
		50	50	CY	TOPSOIL	651.35	EST.
		172	172	SF	TRAFFIC SIGNS, TYPE A	675.20	0.48
		550	550	LF	SQUARE TUBE SIGN POSTS AND ANCHOR	675.341	18
		61	61	EA	REMOVING SIGNS	675.50	
		2	2	EA	ERECTING SALVAGED SIGNS	675.60	
		6	6	EA	DELINEATOR WITH STEEL POST	676.10	
		1	1	LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	
	0.33		0.33	LS	SPECIAL PROVISION (INTELLIGENT COMPACTION EQUIPMENT)	900.645	
		750	750	SY	SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)	900.675	57
		2675	2675	TON	SPECIAL PROVISION (WARM-MIX ASPHALT, FOAMING PROCESS)	900.680	12
		130	130	CWT	SPECIAL PROVISION (EMULSIFIED ASPHALT) (RS-1H OR CRS-1H)	900.683	5

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		SPECIAL PROVISION (WARM-MIX ASPHALT, FOAMING PROCESS)
2551	TON	WEARING COURSE (TYPE IVS)
112	TON	SIDE ROADS
12	TON	ROUNDING
2675	TON	TOTAL

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

QUANTITY SHEET #3

PROJECT NAME: CASTLETON

PROJECT NUMBER: STP 2908(I)

FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210qs3.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 96 OF 152

ITEM DETAIL SUMMARY SHEET

LOCATION			GUARDRAIL (GALVANIZED)					SIDEWALK					MISCELLANEOUS				REMARKS
			621.20	621.21	621.53	621.60	621.80	203.15	301.40	616.28	618.10	618.30	604.412	604.415	604.418	676.10	
BEGIN STATION	END STATION	POS.	STEEL BEAM GURADRAIL GALV.	HD S.B. GR, GALV.	TERM. CONNECT FOR S.B. GR	ANCHOR FOR S.B. RAIL	REMOVAL & DISPOSAL OF GUARDRAIL	COMMON EXCAV.	SUBBASE, RAP	CAST-IN-PLACE CONC. CURB. TYPE B	P.C.C. SIDEWALK, 5 INCH	DETECTABLE WARNING SURFACE	REHABING DI'S, CB'S OR MH'S			DEL. W/STEEL POST	
			LF	LF	EA	EA	LF	CY	TON	LF	SY	SF	EA	EA	EA	EA	
CASTLETON:																	
158+55.0	159+07.0																
~~147+25.92~~	~~203+49.12~~	LT/~~RT~~	27.0	32.5		1	50.5		30				11	2	2		SHALL BE PERFORMED AS DIRECTED BY THE RESIDENT ENGINEER
~~158+55.5~~	~~159+07.5~~	~~LT~~	14.5	32.5		1	36.5									1	SEE VAOT STANDARD GI-D. PROVIDE ANCHOR AT STA. 158+62.0. CONNECT NEW HD STEEL BEAM GUARDRAIL TO NEW BRIDGE RAIL
159+32.5	159+47.0	RT															AT STA. 159+07.5. SEE SHEET 118 FOR BR 5 DETAILS.
158+68.0	159+47.0	~~RT~~	14.5			1	2.5									1	SEE VAOT STANDARD GI-D. PROVIDE ANCHOR AT STA. 158+74.5. CONNECT NEW HD STEEL BEAM GUARDRAIL TO NEW BRIDGE RAIL
		LT															AT STA. 159+07.5. SEE SHEET 118 FOR BR 5 DETAILS.
159+25.0	160+09.5	~~LT~~	52.0	32.5		1	77.5									1	CONNECT NEW STEEL BEAM GUARDRAIL TO NEW BRIDGE RAIL AT STA. 159+32.5. SEE VAOT STANDARD GI-D. PROVIDE ANCHOR AT
		RT															STA. 159+40.5. SEE SHEET 118 FOR BR 5 DETAILS.
159+25.0		RT														1	CONNECT NEW HD STEEL BEAM GUARDRAIL TO NEW BRIDGE RAIL AT STA. 159+32.5. SEE VAOT STANDARD GI-D. PROVIDE ANCHOR AT
																	STA. 160+03.0. SEE SHEET 118 FOR BR 5 DETAILS.
165+55.0		RT						3.2	3.7	~~14.0~~ 7.5	10.6	10.0					CONSTRUCT SIDEWALK RAMP, TYPE 1 WITH DETECTABLE WARNING SURFACE.
165+84.0		RT						3.2	3.7	~~14.0~~ 0.0	10.6	10.0					CONSTRUCT SIDEWALK RAMP, TYPE 1 WITH DETECTABLE WARNING SURFACE.
171+22.0		LT						3.2	3.7	~~14.0~~ 0.0	10.6	10.0					CONSTRUCT SIDEWALK RAMP, TYPE 1 WITH DETECTABLE WARNING SURFACE.
171+22.0		RT						2.0	2.3	~~7.0~~ 12.0	6.7	10.0					CONSTRUCT SIDEWALK RAMP, TYPE 1 WITH DETECTABLE WARNING SURFACE.
171+58.0		LT						2.0	2.3	~~7.0~~ 0.0	6.7	10.0					CONSTRUCT SIDEWALK RAMP, TYPE 6 WITH DETECTABLE WARNING SURFACE.
171+62.0		RT						2.0	2.3	~~7.0~~ 0.0	6.7	10.0					CONSTRUCT SIDEWALK RAMP, TYPE 6 WITH DETECTABLE WARNING SURFACE.
176+12.0		RT						1.2	1.4		3.9	10.0					CONSTRUCT LEVEL LANDING WITH DETECTABLE WARNING SURFACE.
176+35.0		RT						1.2	1.4		3.9	10.0					CONSTRUCT LEVEL LANDING WITH DETECTABLE WARNING SURFACE.
179+11.0		RT						1.2	1.4		3.9	10.0					CONSTRUCT LEVEL LANDING WITH DETECTABLE WARNING SURFACE.
179+43.0		RT						3.2	2.9	~~7.0~~ 0.0	8.3	20.0					CONSTRUCT SIDEWALK RAMP, TYPE 3 WITH DETECTABLE WARNING SURFACE.
179+49.0		LT						2.6	3.5	~~14.0~~ 0.0	10.6	10.0					CONSTRUCT SIDEWALK RAMP, TYPE 6 WITH DETECTABLE WARNING SURFACE.
179+74.0		LT						1.2	1.4		3.9	10.0					CONSTRUCT LEVEL LANDING WITH DETECTABLE WARNING SURFACE.
180+89.0		LT						1.7	1.8		5.6	10.0					CONSTRUCT SIDEWALK RAMP, TYPE 2 WITH DETECTABLE WARNING SURFACE.
181+02.0		RT						1.2	1.4		3.9	10.0					CONSTRUCT LEVEL LANDING WITH DETECTABLE WARNING SURFACE.
182+17.0		LT								2.5							
182+34.0		LT						1.7	1.8	~~14.0~~ 11.0	5.6	10.0					CONSTRUCT SIDEWALK RAMP, TYPE 2 WITH DETECTABLE WARNING SURFACE.
190+64.0		LT						0.9	1.0		2.8	10.0					CONSTRUCT LEVEL LANDING WITH DETECTABLE WARNING SURFACE.
190+87.0		LT						0.9	1.0		2.8	10.0					CONSTRUCT LEVEL LANDING WITH DETECTABLE WARNING SURFACE.
202+75.0	203+79.0	RT	77.0	32.5	1	1	101.0									1	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHOR AT STA 202+81.5. CONNECT NEW HD STEEL BEAM GUARDRAIL TO
																	EXISTING BRIDGE RAIL AT STA 203+79.0. SEE SHEET 119 FOR BR 7 DETAILS.
203+00.0	203+79.0	LT	52.0	32.5	1	1	84.0									1	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHOR AT STA 203+06.5. CONNECT NEW HD STEEL BEAM GUARDRAIL TO
																	EXISTING BRIDGE RAIL AT STA 203+79.0. SEE SHEET 119 FOR BR 7 DETAILS.
SHEET SUBTOTALS:			237.0	162.5	2	6	352.0	32.6	67.0	~~98~~ 33	107.1	180	11	2	2	6	
ROUNDING:			13.0	12.5	-	-	23.0	2.4	3.0	2	2.9	-	-	-	-	-	
TOTALS:			250	175	2	6	375	35	70	100	110	180	11	2	2	6	

ITEM DETAIL SUMMARY SHEET

PROJECT NAME: CASTLETON

PROJECT NUMBER: STP 2908(I)

FILE NAME: p10c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c210idsl.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 97 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 147+25.92 - STA 153+25.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 147+25.92 - STA 153+25.00	S	-	S

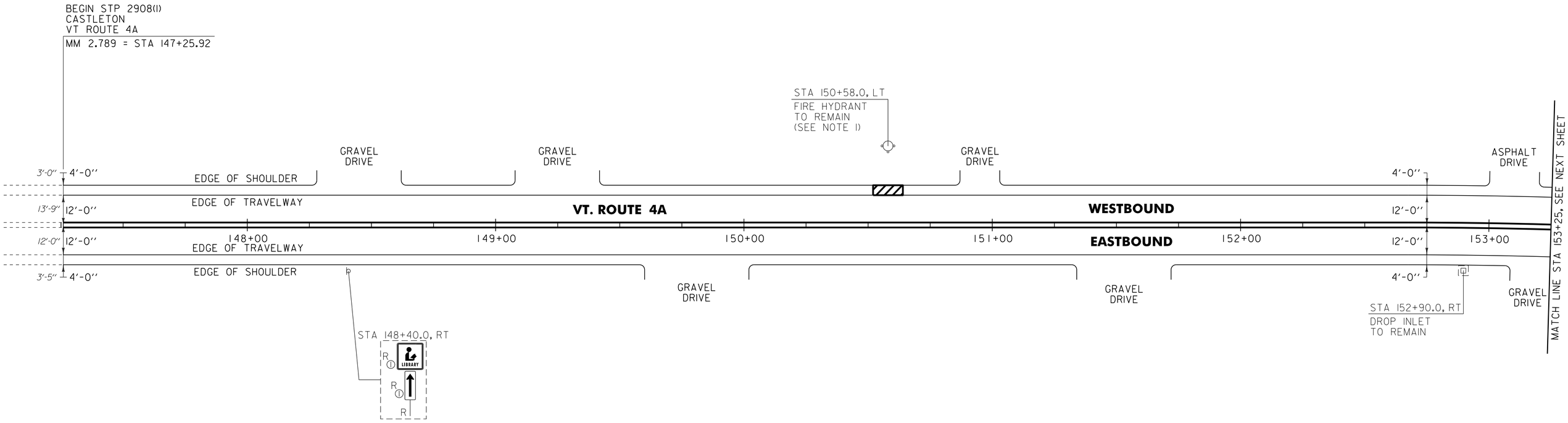
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 147+25.92 - STA 153+25.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 147+25.92 - STA 153+25.00	S	-	S

646.442 DURABLE 8 INCH WHITE LINE, THERMOPLASTIC OR
646.443 DURABLE 8 INCH WHITE LINE, EPOXY PAINT OR
646.446 DURABLE 8 INCH WHITE LINE, POLYUREA
CASTLETON:
STA 150+52.0 - STA 150+64.0 FIRE HYDRANT NO PARKING ZONE LT

675.50 REMOVING SIGNS
AS SHOWN - 2



NOTE:

1. SEE SHEET 8 FOR FIRE HYDRANT PAVEMENT MARKING DETAIL.

SIGN LEGEND

R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ————————
R ① = RETURN TO TOWN OF CASTLETON

NOT TO SCALE

PROJECT LAYOUT SHEET #1

PROJECT NAME: CASTLETON

PROJECT NUMBER: STP 2908(I)

FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210101.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 98 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 153+25.00 - STA 159+25.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 153+25.00 - STA 159+25.00	S	-	S

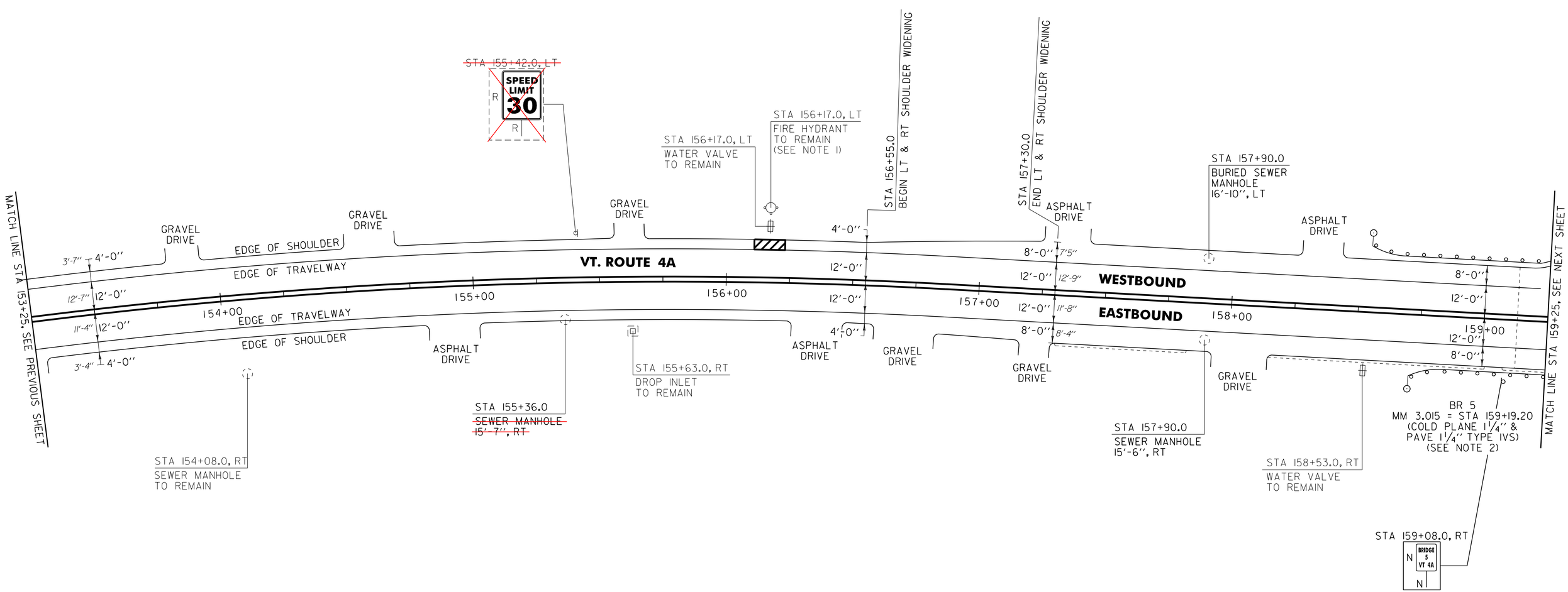
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 153+25.00 - STA 159+25.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 153+25.00 - STA 159+25.00	S	-	S

646.442 DURABLE 8 INCH WHITE LINE, THERMOPLASTIC OR
646.443 DURABLE 8 INCH WHITE LINE, EPOXY PAINT OR
646.444 DURABLE 8 INCH WHITE LINE, POLYUREA
CASTLETON:
STA 156+11.0 - STA 156+23.0 FIRE HYDRANT NO PARKING ZONE LT

675.50 REMOVING SIGNS
AS SHOWN - + 0
SIGN NOT THERE



525.10 REMOVAL OF EXISTING RAILING
CASTLETON:
STA 159+07.5 - STA 159+25.0 LT (17.5 LF)
STA 159+07.5 - STA 159+25.0 RT (17.5 LF)

525.50 BRIDGE RAILING REPAIR, TYPE I
CASTLETON:
STA 159+07.5 - STA 159+25.0 LT (17.5 LF)
STA 159+07.5 - STA 159+25.0 RT (17.5 LF)

604.42 CHANGING ELEVATION OF SEWER MANHOLES
CASTLETON:
STA 155+36.0 RT
STA 157+90.0 RT
STA 157+90.0 LT

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
CASTLETON:
STA 158+55.5 - STA 158+82.5 LT (27.0 LF)
STA 158+68.0 - STA 158+82.5 RT (14.5 LF)

621.21HD STEEL BEAM GUARDRAIL, GALVANIZED
CASTLETON:
STA 158+82.5 - STA 159+07.5 LT (32.5 LF)
STA 158+82.5 - STA 159+07.5 RT (32.5 LF)

621.60 ANCHOR FOR STEEL BEAM RAIL
CASTLETON:
STA 158+62.0 LT
STA 158+74.5 RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
CASTLETON:
STA 158+57.0 - STA 159+07.5 LT (50.5 LF)
STA 158+71.0 - STA 159+07.5 RT (36.5 LF)

676.10 DELINEATOR WITH STEEL POST
CASTLETON:
STA 158+55.5 LT
STA 158+68.0 RT

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———

NOTES:
1. SEE SHEET 8 FOR FIRE HYDRANT PAVEMENT MARKING DETAIL.
2. SEE SHEET 118 FOR BR 5 DETAIL.

NOT TO SCALE

PROJECT LAYOUT SHEET #2

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2908(I)

FILE NAME: p10c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c210102.i
PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 99 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 159+25.00 - STA 165+25.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 159+25.00 - STA 165+25.00	S	-	S

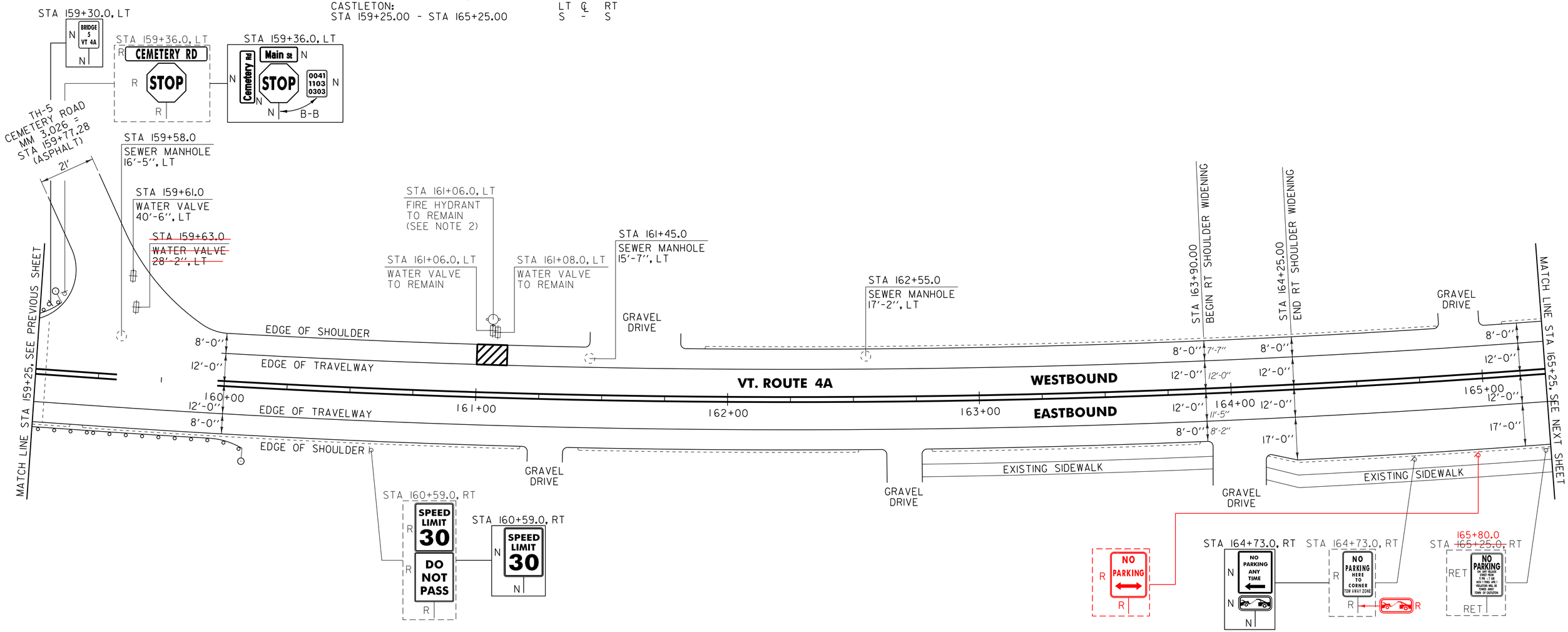
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 159+25.00 - STA 165+25.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 159+25.00 - STA 165+25.00	S	-	S

646.442 DURABLE 8 INCH WHITE LINE, THERMOPLASTIC OR
646.443 DURABLE 8 INCH WHITE LINE, EPOXY PAINT OR
646.444 DURABLE 8 INCH WHITE LINE, POLYUREA
CASTLETON:
STA 161+00.0 - STA 161+12.0 FIRE HYDRANT NO PARKING ZONE LT

675.50 REMOVING SIGNS
AS SHOWN - ~~5~~ 7



525.10 REMOVAL OF EXISTING RAILING
CASTLETON:
STA 159+25.0 - STA 159+32.5 LT (7.5 LF)
STA 159+25.0 - STA 159+32.5 RT (7.5 LF)

525.50 BRIDGE RAILING REPAIR, TYPE I
CASTLETON:
STA 159+25.0 - STA 159+32.5 LT (7.5 LF)
STA 159+25.0 - STA 159+32.5 RT (7.5 LF)

604.42 CHANGING ELEVATION OF SEWER MANHOLES
CASTLETON:
STA 159+58.0 LT
STA 161+45.0 LT
STA 162+55.0 LT

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
CASTLETON:
STA 159+32.5 - STA 159+47.0 LT (14.5 LF)
STA 159+57.5 - STA 160+09.5 RT (52.0 LF)

621.21HD STEEL BEAM GUARDRAIL, GALVANIZED
CASTLETON:
STA 159+32.5 - STA 159+57.5 RT (32.5 LF)

621.60 ANCHOR FOR STEEL BEAM RAIL
CASTLETON:
STA 159+40.5 LT
STA 160+03.0 RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
CASTLETON:
STA 159+32.5 - STA 159+35.0 LT (2.5 LF)
STA 159+32.5 - STA 160+10.0 RT (77.5 LF)

629.20 ADJUST ELEVATION OF VALVE BOX
CASTLETON:
STA 159+61.0 LT
STA 159+63.0 LT

676.10 DELINEATOR WITH STEEL POST
CASTLETON:
STA 159+47.0 LT
STA 160+09.5 RT

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ————

NOTES:

1. PAVING LIMIT ON ALL TOWN HIGHWAYS SHALL BE MEASURED 25 FT BACK FROM VT. ROUTE 4A EDGE OF SHOULDER UNLESS DENOTED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.
2. SEE SHEET 8 FOR FIRE HYDRANT PAVEMENT MARKING DETAIL.

NOT TO SCALE

PROJECT LAYOUT SHEET #3

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2908(I)

FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210103.i
PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 100 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 165+25.00 - STA 170+75.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON: LT ℄ RT
STA 165+25.00 - STA 170+75.00 S - S
STA 165+73.92 DOUBLE SOLID, RT TH-II

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 165+25.00 - STA 170+75.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON: LT ℄ RT
STA 165+25.00 - STA 170+75.00 S - S
STA 165+73.92 DOUBLE SOLID, RT TH-II

646.442 DURABLE 8 INCH WHITE LINE, THERMOPLASTIC OR
646.443 DURABLE 8 INCH WHITE LINE, EPOXY PAINT OR
646.444 DURABLE 8 INCH WHITE LINE, POLYUREA
CASTLETON:
STA 165+28.0 - STA 165+40.0 FIRE HYDRANT NO PARKING ZONE LT
STA 166+13.0 - STA 166+25.0 FIRE HYDRANT NO PARKING ZONE RT
STA 168+79.0 - STA 168+91.0 FIRE HYDRANT NO PARKING ZONE LT

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC OR
646.483 DURABLE 24 INCH STOP BAR, EPOXY PAINT OR
CASTLETON:
STA 165+73.92 RT, TH-II

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC OR
646.493 DURABLE LETTER OR SYMBOL, EPOXY PAINT
CASTLETON:
STA 165+73.92 RT, TH-II, "S,T,O,P" (4 EA)

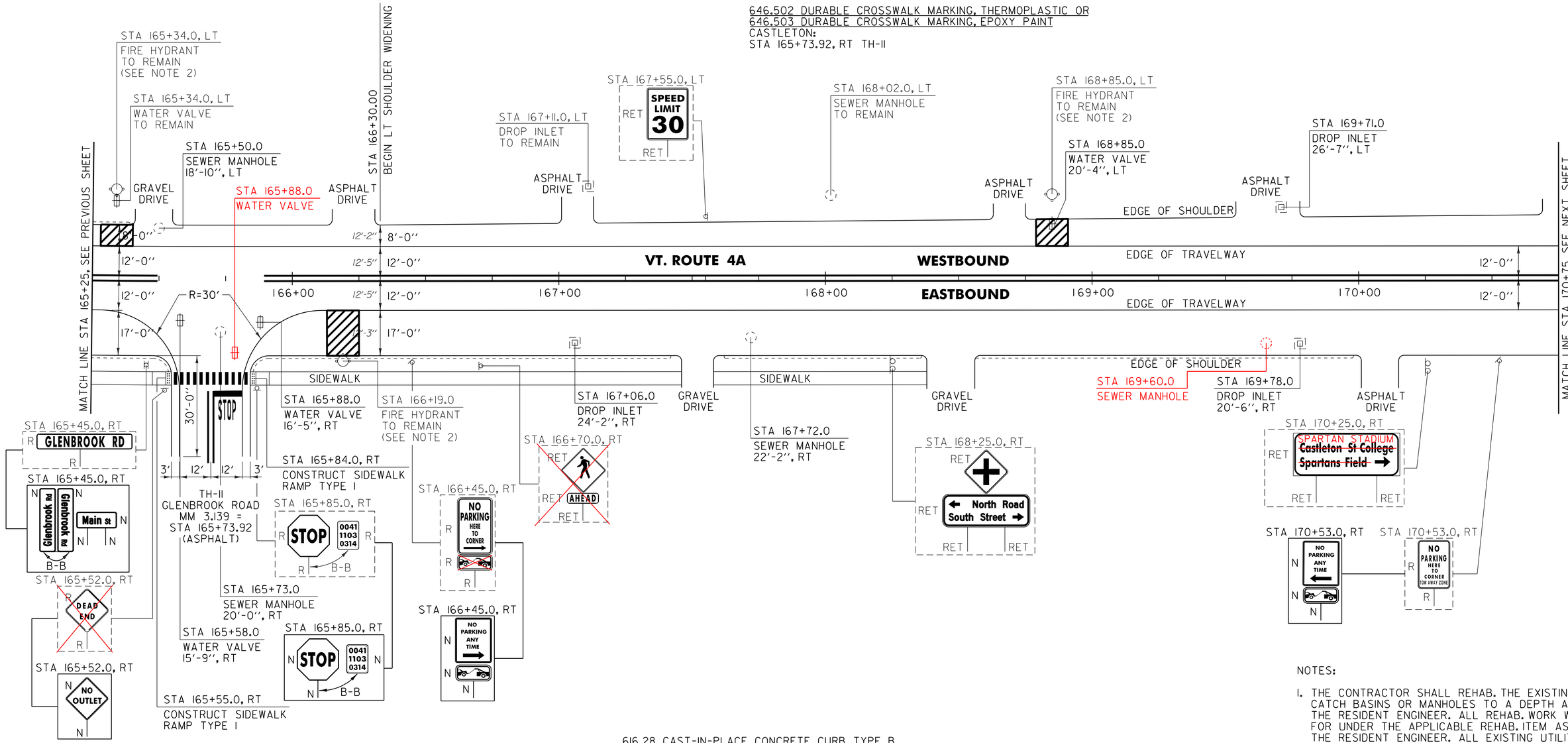
646.502 DURABLE CROSSWALK MARKING, THERMOPLASTIC OR
646.503 DURABLE CROSSWALK MARKING, EPOXY PAINT
CASTLETON:
STA 165+73.92, RT TH-II

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
CASTLETON:
STA 165+73.92 RT, TH-II

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
CASTLETON:
STA 165+73.92 RT, TH-II, "S,T,O,P" (4 EA)

646.702 TEMPORARY CROSSWALK MARKING, PAINT
CASTLETON:
STA 165+73.92, RT TH-II

675.50 REMOVING SIGNS
AS SHOWN - ~~7~~ 5



604.412, 604.415 OR 604.418 REHAB. DROP INLETS, CATCH BASINS OR MANHOLES (SEE NOTE 1)
CASTLETON:
STA 167+06.0 RT
STA 169+71.0 LT
STA 169+78.0 RT

604.42 CHANGING ELEVATION OF SEWER MANHOLES
CASTLETON:
STA 165+50.0 LT
STA 165+73.0 RT
STA 167+72.0 RT
STA 169+60.0 RT

629.20 ADJUST ELEVATION OF VALVE BOX
CASTLETON:
STA 165+58.0 RT
STA 165+88.0 RT
STA 168+85.0 LT
STA 165+80.0 RT

616.28 CAST-IN-PLACE CONCRETE CURB, TYPE B
CASTLETON:
STA 165+55.0 RT (14.0 LF)
STA 165+84.0 RT (14.0 LF)

618.10 PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
CASTLETON:
STA 165+55.0 RT (10.6 SY)
STA 165+84.0 RT (10.6 SY)

618.30 DETECTABLE WARNING SURFACE
CASTLETON:
STA 165+55.0 RT (10.0 SF)
STA 165+84.0 RT (10.0 SF)

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ———

NOTES:

1. THE CONTRACTOR SHALL REHAB. THE EXISTING DROP INLETS, CATCH BASINS OR MANHOLES TO A DEPTH AS DIRECTED BY THE RESIDENT ENGINEER. ALL REHAB. WORK WILL BE PAID FOR UNDER THE APPLICABLE REHAB. ITEM AS DIRECTED BY THE RESIDENT ENGINEER. ALL EXISTING UTILITIES MARKED "TO REMAIN" SHALL NOT BE ALTERED OR REHABILITATED UNLESS DIRECTED OTHERWISE BY THE RESIDENT ENGINEER.
2. SEE SHEET 8 FOR FIRE HYDRANT PAVEMENT MARKING DETAIL.

NOT TO SCALE

PROJECT LAYOUT SHEET #4

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2908(I)

FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210104.i
PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 101 OF 152

STA 171+58.0, LT
CONSTRUCT SIDEWALK RAMP TYPE 6

STA 171+31.0
DROP INLET
20'-5", LT

STA 171+65.0, LT
STA 171+65.0, LT
NORTH RD

STA 170+97.0, LT
NO PARKING HERE TO CORNER TOW AWAY ZONE

STA 170+97.0, LT
NO PARKING ANY TIME

STA 171+31.0, LT
STOP
0041 1103 0325
B-B

STA 171+36.0
~~WATER VALVE~~
~~24' 8", LT~~

STA 171+35.0
WATER VALVE
29'-0", LT

STA 171+22.0, LT
CONSTRUCT SIDEWALK RAMP TYPE 1

TH-5
NORTH ROAD
MM 3.246 =
STA 171+38.88
(ASPHALT)

3'-0" 12'-0" 12'-0" 3'-0"

STA 171+30.0
WATER VALVE
26'-4", LT

STA 171+26.0
WATER VALVE
26'-4", LT

STOP
50'-0"

ASPHALT DRIVE

STA 171+68.0, LT
STA 171+68.0, LT

STA 172+08.0, LT
NO PARKING HERE TO CORNER TOW AWAY ZONE

STA 172+08.0, LT
NO PARKING ANY TIME

STA 172+30.00
END LT SHOULDER WIDENING

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 170+75.00 - STA 176+75.00 EDGE LINE LT & RT
STA 171+62-171+80 NO PARKING HATCHING LT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 170+75.00 - STA 176+75.00	S	-	S

STA 171+38.88 DOUBLE SOLID RT, TH-4
STA 171+38.88 DOUBLE SOLID LT, TH-5
STA 176+24.64 DOUBLE SOLID RT, TH-10

646.442 DURABLE 8 INCH WHITE LINE, THERMOPLASTIC OR
646.443 DURABLE 8 INCH WHITE LINE, EPOXY PAINT OR
646.444 DURABLE 8 INCH WHITE LINE, POLYUREA
CASTLETON:
STA 171+62.0 - STA 171+90.0 FIRE HYDRANT NO PARKING ZONE RT
~~STA 171+62.0 - STA 171+80.0 NO PARKING HATCHING LT~~
STA 176+44.0 - STA 176+56.0 FIRE HYDRANT NO PARKING ZONE RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 170+75.00 - STA 176+75.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 170+75.00 - STA 176+75.00	S	-	S

STA 171+38.88 DOUBLE SOLID RT, TH-4
STA 171+38.88 DOUBLE SOLID LT, TH-5
STA 176+24.64 DOUBLE SOLID RT, TH-10

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC OR
646.483 DURABLE 24 INCH STOP BAR, EPOXY PAINT OR
646.484 DURABLE 24 INCH STOP BAR, POLYUREA
CASTLETON:
STA 171+38.88 LT, TH-5
STA 171+38.88 RT, TH-4
STA 176+24.64 RT, TH-10

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC OR
646.493 DURABLE LETTER OR SYMBOL, EPOXY PAINT
CASTLETON:
STA 171+38.88 LT, TH-5 "S,T,O,P" (4 EA)
STA 171+38.88 RT, TH-4 "S,T,O,P" (4 EA)
STA 176+24.64 RT, TH-10 "S,T,O,P" (4 EA)

646.502 DURABLE CROSSWALK MARKING, THERMOPLASTIC OR
646.503 DURABLE CROSSWALK MARKING, EPOXY PAINT
CASTLETON:
STA 171+38.88 LT, TH-5
STA 171+38.88 RT, TH-4
STA 171+58.00 LT & RT
STA 176+24.64 RT, TH-10

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
CASTLETON:
STA 171+38.88 LT, TH-5
STA 171+38.88 RT, TH-4
STA 176+24.64 RT, TH-10

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
CASTLETON:
STA 171+38.88 LT, TH-5 "S,T,O,P" (8 EA)
STA 171+38.88 RT, TH-4 "S,T,O,P" (8 EA)
STA 176+24.64 RT, TH-10 "S,T,O,P" (8 EA)

646.702 TEMPORARY CROSSWALK MARKING, PAINT
CASTLETON:
STA 171+38.33 LT, TH-5
STA 171+38.33 RT, TH-4
STA 171+58.00 LT & RT
STA 176+24.64 RT, TH-10

675.50 REMOVING SIGNS
AS SHOWN - ~~12~~ 11

675.60 ERECTING SALVAGED SIGNS
AS SHOWN - 1

STA 173+14.0
SEWER MANHOLE
21'-0", LT

STA 173+01.0
DROP INLET
26'-10", LT

GRAVEL DRIVE

STA 171+20.0 RT
ROUND DROP INLET

STA 171+30.0 RT
SEWER MANHOLE

STA 171+35.0 LT
SEWER MANHOLE

STA 175+30.0
SEWER MANHOLE
21'-3", LT

STA 175+84.0, LT
~~Castleton St College~~
~~Spartans Field~~
RET RET

SPARTAN STADIUM

EDGE OF SHOULDER

15'-10" 13'-0"
12'-2" 12'-0"
EDGE OF TRAVELWAY
12'-7" 12'-0"
EDGE OF TRAVELWAY
13'-11" 17'-0"
EDGE OF SHOULDER

13'-0" 13'-4"
12'-0" 12'-9"
12'-0" 12'-9"
17'-0" 17'-4"

VT. ROUTE 4A
WESTBOUND
EASTBOUND

171+00 172+00 173+00 174+00 175+00 176+00

MATCH LINE STA 170+75, SEE PREVIOUS SHEET
MATCH LINE STA 176+75, SEE NEXT SHEET

STA 171+00.0
DROP INLET
-26"

STA 171+84.0
WATER VALVE
29'-5", RT

STA 171+84.0, RT
FIRE HYDRANT TO REMAIN

STA 172+08.0, RT
NO PARKING HERE TO CORNER TOW AWAY ZONE

STA 172+08.0, RT
NO PARKING ANY TIME

STA 173+01.0
DROP INLET
24'-10", RT

ASPHALT DRIVE

STA 174+05.0
SEWER MANHOLE
16'-10", RT

GRAVEL DRIVE

STA 175+95.0
DROP INLET
27'-9", RT

STA 176+18.0
WATER VALVE
11'-8", RT

STA 175+77.0
WATER VALVE
33'-6", RT

STA 176+15.0
WATER VALVE
18'-5", RT

STA 176+23.0
SEWER MANHOLE
17'-0", RT

STA 176+35.0
DROP INLET
27'-9", RT

STA 171+06.0
WATER VALVE
20'-6", RT

STA 171+00.0, RT
DROP INLET TO REMAIN

56'-0" 35'-0"
STOP

3'-0" 12'-0" TH-4 12'-0" 3'-0"
SOUTH STREET
MM 3.246 =
STA 171+38.88
(ASPHALT)

STA 171+37.0
WATER VALVE
11'-7", RT

STA 171+39.0
WATER VALVE
16'-2", RT

STA 171+13.0
SEWER MANHOLE
26'-8", RT

STA 171+27.0
DROP INLET
24'-10", RT

STA 171+22.0, RT
CONSTRUCT SIDEWALK RAMP TYPE 1

STA 171+62.0
WATER VALVE
12'-5", RT

STA 171+58.0, RT
STOP

STA 171+62.0, RT
TELEPHONE MANHOLE TO REMAIN

STA 171+72.0
WATER VALVE
12'-5", RT

STA 171+58.0, RT
CONSTRUCT SIDEWALK RAMP TYPE 6

STA 171+76.0, RT

STA 171+73.0, RT
MAIN ST
SOUTH ST

STA 171+73.0, RT
South st
Main st

STA 173+60.0, RT
(SEE NOTE 3)
0041 1103 0329

STA 173+60.0, RT
SPEED LIMIT 30

STA 176+12.0, RT
LEVEL LANDING W/ DETECTABLE WARNING SURFACE

STA 176+12.0, RT
NO PARKING

STA 176+14.0
WATER VALVE
39'-6", RT

STA 176+35.0, RT
LEVEL LANDING W/ DETECTABLE WARNING SURFACE

STA 176+38.0, RT
STOP
0041 1103 0334
B-B

STA 176+38.0, RT
R&S
STOP
0041 1103 0334
B-B

11'-0" 45'-0" 11'-0"
STOP
1'-0" TH-10 1'-0"
SEMINARY STREET
MM 3.338 =
STA 176+24.64
(ASPHALT)

STA 176+50.0, RT
FIRE HYDRANT TO REMAIN
(SEE NOTE 2)

STA 176+50.0, RT
WATER VALVE
TO REMAIN

STA 176+55.0, RT
SEMINARY

STA 176+55.0, RT
Seminary Rd
Main st

STA 176+56.0
DROP INLET
28'-0", RT

604.42 CHANGING ELEVATION OF SEWER MANHOLES
CASTLETON:
STA 171+13.0 RT
STA 173+14.0 LT
STA 174+05.0 RT
STA 175+30.0 LT
STA 176+23.0 RT
STA 171+35.0 LT
STA 171+20.0 RT

629.20 ADJUST ELEVATION OF VALVE BOX
CASTLETON:
STA 171+06.0 RT
STA 171+26.0 LT
STA 171+30.0 LT
STA 171+35.0 LT
STA 171+36.0 LT
STA 171+37.0 RT
STA 171+39.0 RT
STA 171+62.0 RT
STA 171+72.0 RT
STA 171+84.0 RT
STA 175+77.0 RT
STA 176+14.0 RT
STA 176+15.0 RT
STA 176+18.0 RT

616.28 CAST-IN-PLACE CONCRETE CURB, TYPE B
CASTLETON:
STA 171+22.0 LT (14.0 LF)
STA 171+22.0 RT (7.0 LF)
STA 171+58.0 LT (7.0 LF)
STA 171+58.0 RT (7.0 LF)

618.10 PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
CASTLETON:
STA 171+22.0 LT (10.6 SY)
STA 171+22.0 RT (6.7 SY)
STA 171+58.0 LT (6.7 SY)
STA 171+62.0 RT (6.7 SY)
STA 176+12.0 RT (3.9 SY)
STA 176+35.0 RT (3.9 SY)

618.30 DETECTABLE WARNING SURFACE
CASTLETON:
STA 171+22.0 LT (10.0 SF)
STA 171+22.0 RT (10.0 SF)
STA 171+58.0 LT (10.0 SF)
STA 171+58.0 RT (10.0 SF)
STA 176+12.0 RT (10.0 SF)
STA 176+35.0 RT (10.0 SF

604.412, 604.415 OR 604.418 REHAB. DROP INLETS, CATCH BASINS OR MANHOLES (SEE NOTE 1)
CASTLETON:
STA 171+27.0 RT
STA 171+31.0 LT
STA 173+01.0 RT
STA 173+01.0 LT
STA 176+35.0 RT
STA 176+56.0 RT
STA 171+00.0 RT
STA 175+95.0 RT

NOTES:

1. THE CONTRACTOR SHALL REHAB. THE EXISTING DROP INLETS, CATCH BASINS OR MANHOLES TO A DEPTH AS DIRECTED BY THE RESIDENT ENGINEER. ALL REHAB. WORK WILL BE PAID FOR UNDER THE APPLICABLE REHAB. ITEM AS DIRECTED BY THE RESIDENT ENGINEER. ALL EXISTING UTILITIES MARKED "TO REMAIN" SHALL NOT BE ALTERED OR REHABILITATED UNLESS DIRECTED OTHERWISE BY THE RESIDENT ENGINEER.
2. SEE SHEET 8 FOR FIRE HYDRANT PAVEMENT MARKING DETAIL.
3. NEW MILE MARKER SIGN TO BE INSTALLED ON THE EXISTING SIGN POST.

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ———

NOT TO SCALE

PROJECT LAYOUT SHEET #5

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2908(I)

FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210105.i
PLOT DATE: 04-JUN-2013 09:16
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 102 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 176+75.00 - STA 177+57.00 EDGE LINE LT & RT
STA 177+57.00 - STA 179+78.00 EDGE LINE LT
STA 177+57.00 - STA 178+10.00 PARKINGS STALLS RT
STA 178+49.00 - STA 178+59.00 RT, NO PARKING HATCHING
STA 178+59.00 - STA 178+83.00 PARKING STALLS RT
STA 178+83.00 - STA 179+09.00 RT, NO PARKING HATCHING
STA 179+49.00 - STA 179+69.00 RT, NO PARKING HATCHING
STA 179+69.00 - STA 180+12.00 PARKING STALLS RT
STA 179+78.00 - STA 179+96.00 LT, NO PARKING HATCHING
STA 179+96.00 - STA 180+64.00 PARKING STALLS LT
STA 180+55.00 - STA 180+84.00 PARKING STALLS RT
STA 180+64.00 - STA 180+55.00 RT, NO PARKING HATCHING
STA 180+64.00 - STA 180+74.00 LT, NO PARKING HATCHING
STA 180+84.00 - STA 180+93.00 RT, NO PARKING HATCHING
STA 180+93.00 - STA 182+08.00 EDGE LINE RT
STA 181+01.00 - STA 181+43.00 PARKING STALLS LT
STA 181+45.00 - STA 181+55.00 LT, NO PARKING HATCHING
STA 182+08.00 - STA 182+45.00 PARKING STALLS LT
STA 182+08.00 - STA 182+75.00 EDGE LINE LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 176+75.00 - STA 177+57.00 EDGE LINE LT & RT
STA 177+57.00 - STA 179+78.00 EDGE LINE LT
STA 177+57.00 - STA 178+10.00 PARKINGS STALLS RT
STA 178+49.00 - STA 178+59.00 RT, NO PARKING HATCHING
STA 178+59.00 - STA 178+83.00 PARKING STALLS RT
STA 178+83.00 - STA 179+09.00 RT, NO PARKING HATCHING
STA 179+49.00 - STA 179+69.00 RT, NO PARKING HATCHING
STA 179+69.00 - STA 180+12.00 PARKING STALLS RT
STA 179+78.00 - STA 179+96.00 LT, NO PARKING HATCHING
STA 179+96.00 - STA 180+64.00 PARKING STALLS LT
STA 180+55.00 - STA 180+84.00 PARKING STALLS RT
STA 180+64.00 - STA 180+55.00 RT, NO PARKING HATCHING
STA 180+64.00 - STA 180+74.00 LT, NO PARKING HATCHING
STA 180+84.00 - STA 180+93.00 RT, NO PARKING HATCHING
STA 180+93.00 - STA 182+08.00 EDGE LINE RT
STA 181+01.00 - STA 181+43.00 PARKING STALLS LT
STA 181+45.00 - STA 181+55.00 LT, NO PARKING HATCHING
STA 182+08.00 - STA 182+45.00 PARKING STALLS LT
STA 182+08.00 - STA 182+75.00 EDGE LINE LT & RT

STA 152+31-182+37 NO PARKING HATCHING LT STA 178+48-179+07 SIDEWALK DESIGNATION LINE

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT ℄	RT
STA 176+75.00 - STA 182+75.00	S	S
STA 179+30.88 DOUBLE SOLID RT, TH-9		
STA 179+62.56 DOUBLE SOLID LT, TH-6		

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT ℄	RT
STA 176+75.00 - STA 182+75.00	S	S
STA 179+30.88 DOUBLE SOLID RT, TH-9		
STA 179+62.56 DOUBLE SOLID LT, TH-6		

646.442 DURABLE 8 INCH WHITE LINE, THERMOPLASTIC OR
646.443 DURABLE 8 INCH WHITE LINE, EPOXY PAINT OR
646.444 DURABLE 8 INCH WHITE LINE, POLYUREA
CASTLETON: SEE NOTE 4
STA 180+12.0 - STA 180+24.0 FIRE HYDRANT NO PARKING ZONE RT
~~STA 182+31.0 - STA 182+37.0 NO PARKING HATCHING LT~~
~~STA 178+48.0 - STA 179+07.0 SIDEWALK DESIGNATION LINE RT~~

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC OR
646.483 DURABLE 24 INCH STOP BAR, EPOXY PAINT OR
646.484 DURABLE 24 INCH STOP BAR, POLYUREA
CASTLETON:
STA 179+30.88 RT, TH-9
STA 179+62.56 LT, TH-6

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
CASTLETON:
STA 179+30.88 RT, TH-9
STA 179+62.56 LT, TH-6

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC OR
646.493 DURABLE LETTER OR SYMBOL, EPOXY PAINT
CASTLETON:
STA 179+30.88 RT, TH-9 "S,T,O,P" (4 EA)
STA 179+62.56 LT, TH-6 "S,T,O,P" (4 EA)
STA 179+67.60 RT, HANDICAP SYMBOL (1EA)
STA 182+46.82 LT, HANDICAP SYMBOL (1EA)

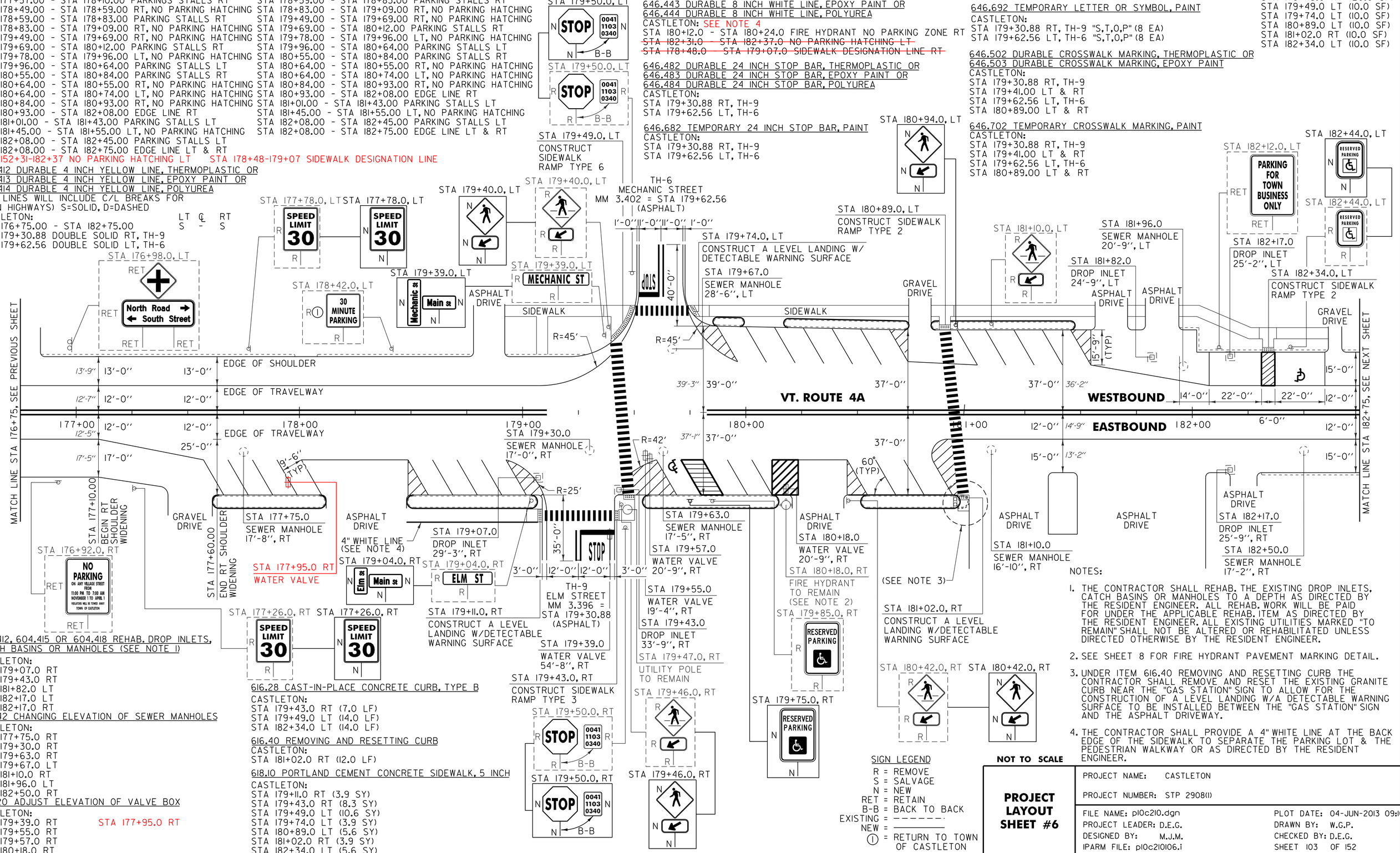
646.692 TEMPORARY LETTER OR SYMBOL, PAINT
CASTLETON:
STA 179+30.88 RT, TH-9 "S,T,O,P" (8 EA)
STA 179+62.56 LT, TH-6 "S,T,O,P" (8 EA)

646.502 DURABLE CROSSWALK MARKING, THERMOPLASTIC OR
646.503 DURABLE CROSSWALK MARKING, EPOXY PAINT
CASTLETON:
STA 179+30.88 RT, TH-9
STA 179+41.00 LT & RT
STA 179+62.56 LT, TH-6
STA 180+89.00 LT & RT

646.702 TEMPORARY CROSSWALK MARKING, PAINT
CASTLETON:
STA 179+30.88 RT, TH-9
STA 179+41.00 LT & RT
STA 179+62.56 LT, TH-6
STA 180+89.00 LT & RT

675.50 REMOVING SIGNS
AS SHOWN - 19

618.30 DETECTABLE WARNING SURFACE
CASTLETON:
STA 179+11.0 RT (10.0 SF)
STA 179+43.0 RT (20.0 SF)
STA 179+49.0 LT (10.0 SF)
STA 179+74.0 LT (10.0 SF)
STA 180+89.0 LT (10.0 SF)
STA 181+02.0 RT (10.0 SF)
STA 182+34.0 LT (10.0 SF)



604.412, 604.415 OR 604.418 REHAB. DROP INLETS, CATCH BASINS OR MANHOLES (SEE NOTE 1)
CASTLETON:
STA 179+07.0 RT
STA 179+43.0 RT
STA 181+82.0 LT
STA 182+17.0 LT
STA 182+17.0 RT

604.42 CHANGING ELEVATION OF SEWER MANHOLES
CASTLETON:
STA 177+75.0 RT
STA 179+30.0 RT
STA 179+63.0 RT
STA 179+67.0 LT
STA 181+10.0 RT
STA 181+96.0 LT
STA 182+50.0 RT

629.20 ADJUST ELEVATION OF VALVE BOX
CASTLETON:
STA 179+39.0 RT STA 177+95.0 RT
STA 179+55.0 RT
STA 179+57.0 RT
STA 180+18.0 RT

616.28 CAST-IN-PLACE CONCRETE CURB, TYPE B
CASTLETON:
STA 179+43.0 RT (7.0 LF)
STA 179+49.0 LT (14.0 LF)
STA 182+34.0 LT (14.0 LF)

616.40 REMOVING AND RESETTING CURB
CASTLETON:
STA 181+02.0 RT (12.0 LF)

618.10 PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
CASTLETON:
STA 179+11.0 RT (3.9 SY)
STA 179+43.0 RT (8.3 SY)
STA 179+49.0 LT (10.6 SY)
STA 179+74.0 LT (3.9 SY)
STA 180+89.0 LT (5.6 SY)
STA 181+02.0 RT (3.9 SY)
STA 182+34.0 LT (5.6 SY)

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ———
① = RETURN TO TOWN OF CASTLETON

NOTES:
1. THE CONTRACTOR SHALL REHAB. THE EXISTING DROP INLETS, CATCH BASINS OR MANHOLES TO A DEPTH AS DIRECTED BY THE RESIDENT ENGINEER. ALL REHAB. WORK WILL BE PAID FOR UNDER THE APPLICABLE REHAB. ITEM AS DIRECTED BY THE RESIDENT ENGINEER. ALL EXISTING UTILITIES MARKED "TO REMAIN" SHALL NOT BE ALTERED OR REHABILITATED UNLESS DIRECTED OTHERWISE BY THE RESIDENT ENGINEER.
2. SEE SHEET 8 FOR FIRE HYDRANT PAVEMENT MARKING DETAIL.
3. UNDER ITEM 616.40 REMOVING AND RESETTING CURB THE CONTRACTOR SHALL REMOVE AND RESET THE EXISTING GRANITE CURB NEAR THE "GAS STATION" SIGN TO ALLOW FOR THE CONSTRUCTION OF A LEVEL LANDING W/A DETECTABLE WARNING SURFACE TO BE INSTALLED BETWEEN THE "GAS STATION" SIGN AND THE ASPHALT DRIVEWAY.
4. THE CONTRACTOR SHALL PROVIDE A 4" WHITE LINE AT THE BACK EDGE OF THE SIDEWALK TO SEPARATE THE PARKING LOT & THE PEDESTRIAN WALKWAY OR AS DIRECTED BY THE RESIDENT ENGINEER.

NOT TO SCALE

PROJECT LAYOUT SHEET #6

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2908(I)
FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210106.i
PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 103 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 182+75.00 - STA 188+75.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 182+75.00 - STA 188+75.00	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 182+75.00 - STA 188+75.00 EDGE LINE LT & RT

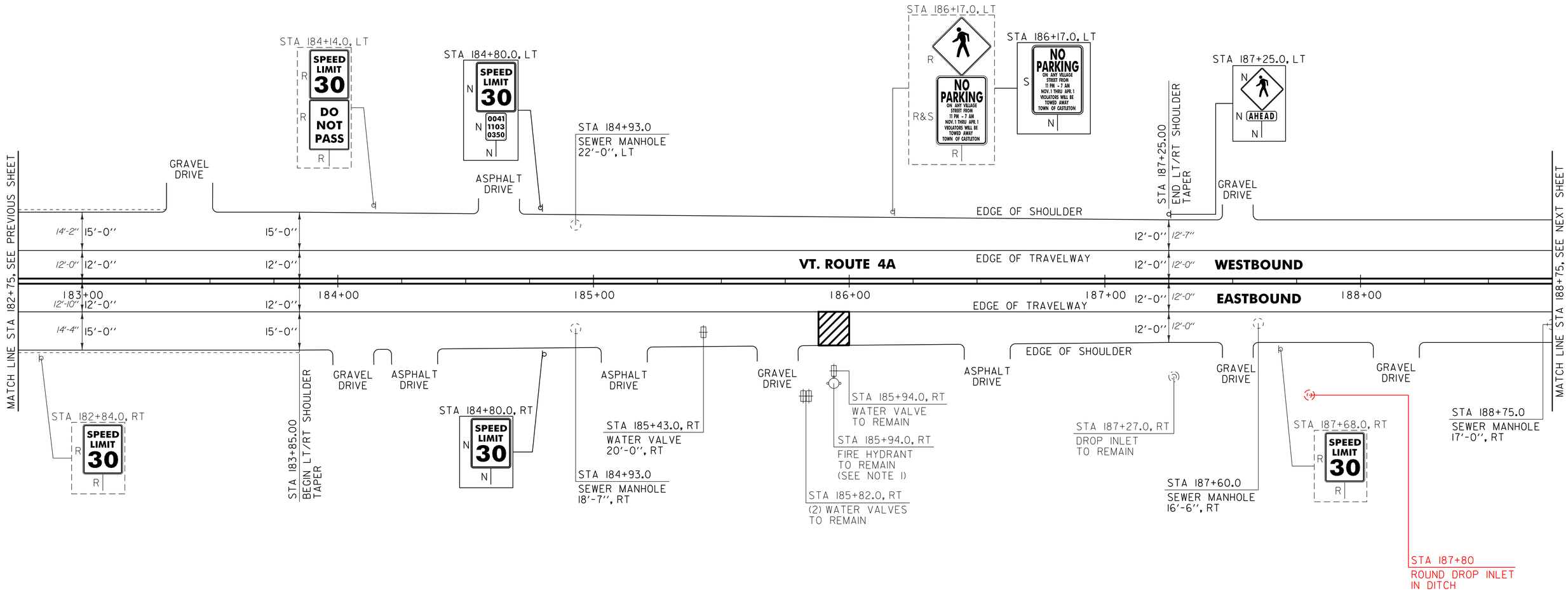
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 182+75.00 - STA 188+75.00	S	-	S

646.442 DURABLE 8 INCH WHITE LINE, THERMOPLASTIC OR
646.443 DURABLE 8 INCH WHITE LINE, EPOXY PAINT OR
646.444 DURABLE 8 INCH WHITE LINE, POLYUREA
CASTLETON:
STA 185+88.0 - STA 186+00.0 FIRE HYDRANT NO PARKING ZONE RT

675.50 REMOVING SIGNS
AS SHOWN - 6

675.60 ERECTING SALVAGED SIGNS
AS SHOWN - 1



NOTE:

1. SEE SHEET 8 FOR FIRE HYDRANT PAVEMENT MARKING DETAIL.

604.42 CHANGING ELEVATION OF SEWER MANHOLES
CASTLETON:
STA 184+93.0 LT
STA 184+93.0 RT
STA 187+60.0 RT
STA 188+75.0 RT

629.20 ADJUST ELEVATION OF VALVE BOX
CASTLETON:
STA 185+43.0 RT

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ————

NOT TO SCALE

PROJECT LAYOUT SHEET #7

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2908(I)

FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210107.i
PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 104 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 188+75.00 - STA 194+75.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 188+75.00 - STA 194+75.00	S	-	S

STA 190+76.64 DOUBLE SOLID LT, TH-7

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 188+75.00 - STA 194+75.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 188+75.00 - STA 194+75.00	S	-	S

STA 190+76.64 DOUBLE SOLID LT, TH-7

646.442 DURABLE 8 INCH WHITE LINE, THERMOPLASTIC OR
646.443 DURABLE 8 INCH WHITE LINE, EPOXY PAINT OR
646.444 DURABLE 8 INCH WHITE LINE, POLYUREA
CASTLETON:
STA 193+52.0 - STA 193+64.0 FIRE HYDRANT NO PARKING ZONE LT

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC OR
646.483 DURABLE 24 INCH STOP BAR, EPOXY PAINT OR
646.484 DURABLE 24 INCH STOP BAR, POLYUREA
CASTLETON:
STA 190+76.64 LT, TH-7

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC OR
646.493 DURABLE LETTER OR SYMBOL, EPOXY PAINT
CASTLETON:
STA 190+76.64 LT, TH-7 "S,T,O,P" (4 EA)

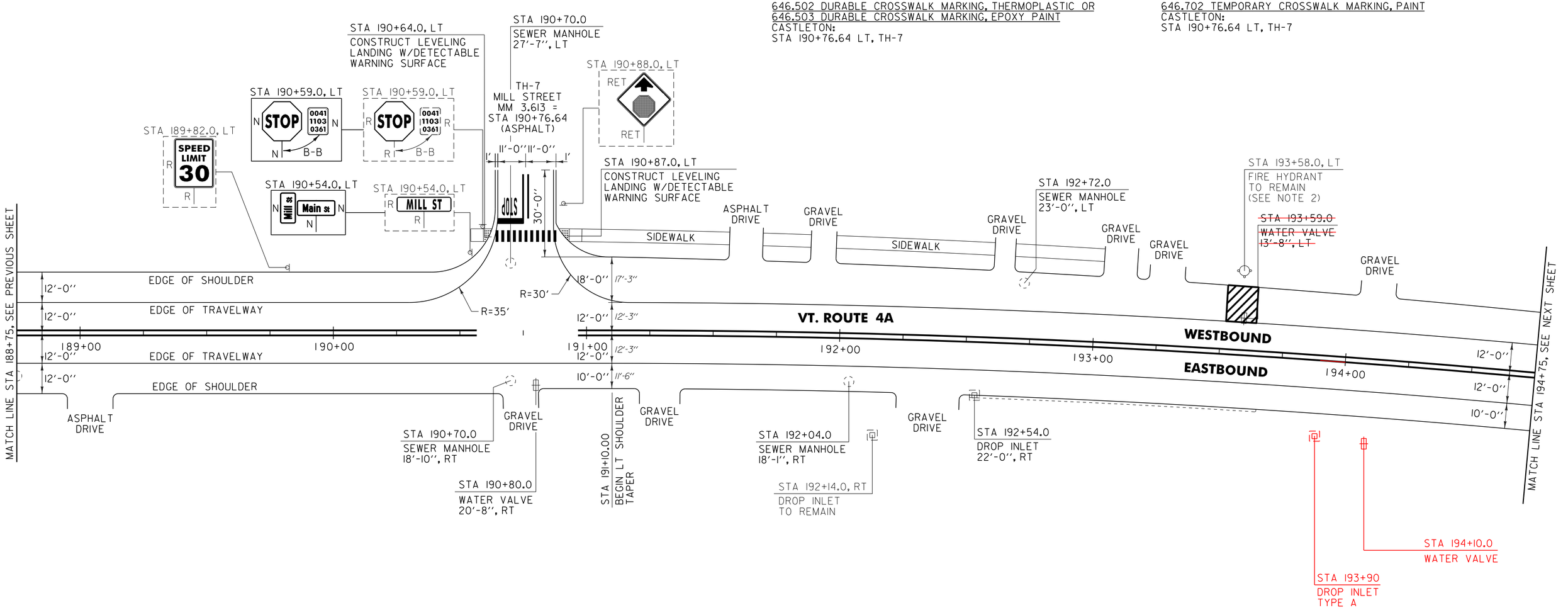
646.502 DURABLE CROSSWALK MARKING, THERMOPLASTIC OR
646.503 DURABLE CROSSWALK MARKING, EPOXY PAINT
CASTLETON:
STA 190+76.64 LT, TH-7

675.50 REMOVING SIGNS
AS SHOWN - 4

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
CASTLETON:
STA 190+76.64 LT, TH-7

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
CASTLETON:
STA 190+76.64 LT, TH-7 "S,T,O,P" (8 EA)

646.702 TEMPORARY CROSSWALK MARKING, PAINT
CASTLETON:
STA 190+76.64 LT, TH-7



NOTES:

1. THE CONTRACTOR SHALL REHAB. THE EXISTING DROP INLETS, CATCH BASINS OR MANHOLES TO A DEPTH AS DIRECTED BY THE RESIDENT ENGINEER. ALL REHAB. WORK WILL BE PAID FOR UNDER THE APPLICABLE REHAB. ITEM AS DIRECTED BY THE RESIDENT ENGINEER. ALL EXISTING UTILITIES MARKED "TO REMAIN" SHALL NOT BE ALTERED OR REHABILITATED UNLESS DIRECTED OTHERWISE BY THE RESIDENT ENGINEER.
2. SEE SHEET 8 FOR FIRE HYDRANT PAVEMENT MARKING DETAIL.

604.412, 604.415 OR 604.418 REHAB. DROP INLETS, CATCH BASINS OR MANHOLES (SEE NOTE 1)
CASTLETON:
STA 192+54.0 RT

604.42 CHANGING ELEVATION OF SEWER MANHOLES
CASTLETON:
STA 190+70.0 LT
STA 190+70.0 RT
STA 192+04.0 RT
STA 192+72.0 LT

629.20 ADJUST ELEVATION OF VALVE BOX
CASTLETON:
STA 190+80.0 RT
STA 193+59.0 LT

618.10 PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
CASTLETON:
STA 190+64.0 LT (3.9 SY)
STA 190+87.0 LT (3.9 SY)

618.30 DETECTABLE WARNING SURFACE
CASTLETON:
STA 190+64.0 LT (10.0 SF)
STA 190+87.0 LT (10.0 SF)

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ————

NOT TO SCALE

PROJECT LAYOUT SHEET #8

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2908(I)
FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210108.i
PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 105 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 194+75.00 - STA 200+00.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

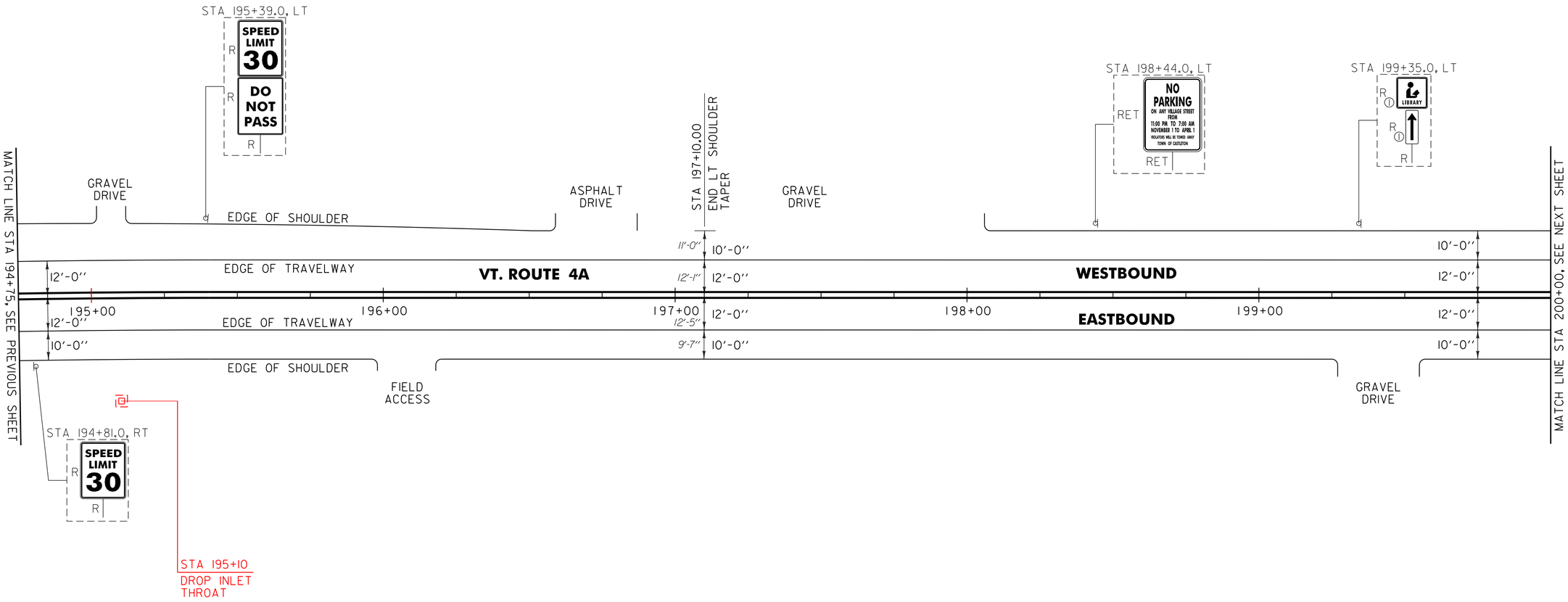
CASTLETON:	LT	℄	RT
STA 194+75.00 - STA 200+00.00	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 194+75.00 - STA 200+00.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 194+75.00 - STA 200+00.00	S	-	S

675.50 REMOVING SIGNS
AS SHOWN - 5



SIGN LEGEND

R	= REMOVE
S	= SALVAGE
N	= NEW
RET	= RETAIN
B-B	= BACK TO BACK
EXISTING	= - - - - - - -
NEW	= ————
R Ⓣ	= RETURN TO TOWN OF CASTLETON

NOT TO SCALE

PROJECT LAYOUT SHEET #9

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2908(I)

FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210109.i
PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 106 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 200+00.00 - STA 203+49.12 EDGE LINE LT & RT

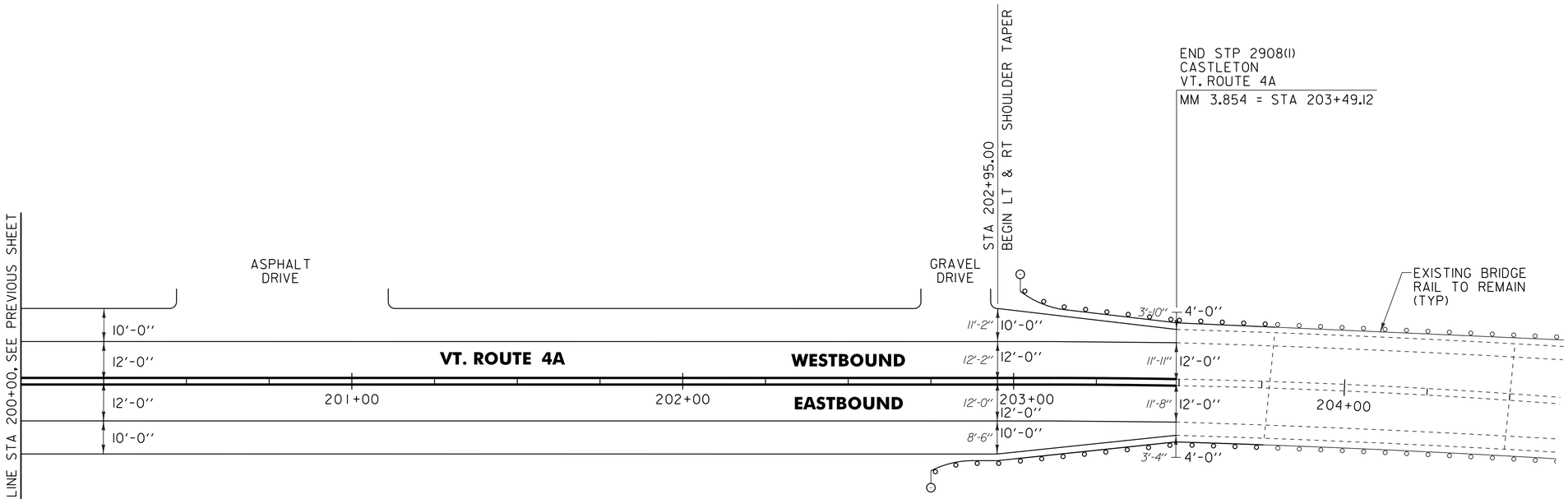
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 200+00.00 - STA 203+49.12	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 200+00.00 - STA 203+49.12 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 200+00.00 - STA 203+49.12	S	-	S



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
CASTLETON:
STA 202+75.0 - STA 203+52.0 RT (77.0 LF)
STA 203+00.0 - STA 203+52.0 LT (52.0 LF)

621.21 HD STEEL BEAM GUARDRAIL, GALVANIZED
CASTLETON:
STA 203+52.0 - STA 203+77.0 LT (32.5 LF)
STA 203+52.0 - STA 203+77.0 RT (32.5 LF)

621.53 TERMINAL CONNECTOR FOR STEEL BEAM GUARDRAIL
CASTLETON:
STA 203+77.0 - STA 203+79.0 LT
STA 203+77.0 - STA 203+79.0 RT

621.60 ANCHOR FOR STEEL BEAM RAIL
CASTLETON:
STA 202+81.5 RT
STA 203+06.5 LT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
CASTLETON:
STA 202+78.0 - STA 203+79.0 RT (101.0 LF)
STA 202+95.0 - STA 203+79.0 LT (84.0 LF)

676.10 DELINEATOR WITH STEEL POST
CASTLETON:
STA 202+75.0 RT
STA 203+00.0 LT

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ————

NOT TO SCALE

PROJECT LAYOUT SHEET #10

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2908(I)
FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210110.i
PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 107 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 1

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	FOUNDATION	TUBULAR STEEL Ø (in) lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
CASTLETON: I59+08.0, RT	BRIDGE 5 VT 4A	1	6	8	0.33						1				~~X~~ 5' 9"			X																	E-134
I59+30.0, LT	BRIDGE 5 VT 4A	1	6	8	0.33						1				~~X~~ 7' 6"			X																	E-134
I59+36.0, LT	Cemetery Rd / Main St	1 1	42 30	12 12	3.5 2.5						1					~~X~~ 12' 6"		X																TOP MOUNTING BRACKET REQUIRED TO INSTALL SIGNS ON POST. COSTS ASSOCIATED WITH THIS BRACKET ARE INCIDENTAL TO THE SIGN POST.		116 116	
	STOP 0041 1103 0303	1	30 6	30 10	6.25 0.42																												BACK-TO-BACK SIGN ID CODE R1-1 SIGN ID CODE VD-700	X		E-138
I60+59.0, RT	SPEED LIMIT 30	1	24	30	5.00						1					~~X~~ 13' 0"		X																SIGN ID CODE R2-1	X		
I64+73.0, RT	NO PARKING ANY TIME	1	12	18	1.50						1					~~X~~ 12' 9"		X																SIGN ID CODE R7-1L	X		
		1	12	6	0.50																												SIGN ID CODE R7-20IP	X		
I65+45.0, RT	Glenbrook Rd / Glenbrook Rd / Main St	1 1 1	48 48 30	12 12 12	4.00 4.00 2.50						2					12' 0" ~~X~~ 11' 9"		X																SIGNS TO BE MOUNTED BACK-TO-BACK SEE DETAIL ON SHEET 116.		116 116 116	

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

												LF	LF	LF	LF	LF	LF		EA.	LB	LB	LB		LB	LB	LB	LB									
															~~28~~	~~70~~																					
															13.25	62.0																					
TOTALS		SF	SF	EA.	SF			LF				LF								LB			EA.		LB				EA.	EA.	LB					
		~~24.83~~ 30.83														~~98~~ 75.25																					

TRAFFIC SIGN SUMMARY SHEET #1

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2908(I)

FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210tssl.i
PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 108 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 2

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	FOUND-ATION	TUBULAR STEEL Ø (in) lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
CASTLETON: I65+52.0, RT	NO OUTLET	1	30	30	6.25						1					~~X~~ 13' 9"		X															SIGN ID CODE W14-2	X		
I65+85.0, RT	STOP 0041 1103 0314	1 1	30 6	30 10	6.25 0.42						1					~~X~~ 13' 0"		X															BACK-TO-BACK SIGN ID CODE RI-1 SIGN ID CODE VD-700	X		E-138
I66+45.0, RT	NO PARKING ANY TIME →	1	12	18	1.50						1					~~X~~ 12' 9"		X															SIGN ID CODE R7-1R	X		
		1	12	6	0.50																												SIGN ID CODE R7-20IP	X		
		1	12	6	0.50																												SIGN ID CODE R7-20IP	X		
I70+53.0, RT	NO PARKING ANY TIME ←	1	12	18	1.50						1					~~X~~ 12' 9"		X															SIGN ID CODE R7-1L	X		
		1	12	6	0.50																												SIGN ID CODE R7-20IP	X		
I70+97.0, LT	NO PARKING ANY TIME →	1	12	18	1.50						1					~~X~~ 12' 9"		X															SIGN ID CODE R7-1R	X		
		1	12	6	0.50																												SIGN ID CODE R7-20IP	X		
												LF	LF	LF	LF	LF ~~70~~ 65.0	LF	EA.	LB	LB	LB		LB	LB	LB	LB								
TOTALS		SF 18.92	SF	EA.	SF							LF			LF ~~70~~ 65.0				LB			EA.	LB				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TRAFFIC SIGN SUMMARY SHEET #2

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2908(I)

FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210tss2.i

PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 109 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 3

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	FOUNDATION	TUBULAR STEEL Ø (in) lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
CASTLETON: 171+65.0, LT	North rd / Main st	1 1	30 30	12 12	2.50 2.50						1					~~X~~ 10' 9"		X															TOP MOUNTING BRACKET REQUIRED TO INSTALL SIGNS ON POST. COSTS ASSOCIATED WITH THIS BRACKET ARE INCIDENTAL TO THE SIGN POST.		116 116	
171+68.0, LT		1	30	30	6.25						1					~~X~~ 14' 9"		X															SIGN ID CODE W11-2 SIGN SHALL BE FLUORESCENT YELLOW GREEN	X		
		1	24	12	2.00																											SIGN ID CODE W16-7P SIGN SHALL BE FLUORESCENT YELLOW GREEN	X		
171+73.0, RT	South st / Main st	1 1	30 30	12 12	2.50 2.50						1					~~X~~ 11' 0"		X															TOP MOUNTING BRACKET REQUIRED TO INSTALL SIGNS ON POST. COSTS ASSOCIATED WITH THIS BRACKET ARE INCIDENTAL TO THE SIGN POST.		116 116	
172+08.0, LT	NO PARKING ANY TIME ←	1	12	18	1.50						1					~~X~~ 12' 9"		X															SIGN ID CODE R7-1L	X		
		1	12	6	0.50																											SIGN ID CODE R7-20IP	X		
172+08.0, RT	NO PARKING ANY TIME →	1	12	18	1.50						1					~~X~~ 12' 9"		X															SIGN ID CODE R7-1R	X		
		1	12	6	0.50																											SIGN ID CODE R7-20IP	X		
											LF	LF	LF	LF	LF ~~70~~ 62.0	LF		EA.	LB	LB	LB		LB	LB	LB	LB								
TOTALS		SF 22.25	SF	EA.	SF						LF			LF ~~70~~ 62.0					LB			EA.	LB				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TRAFFIC SIGN SUMMARY SHEET #3

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2908(I)

FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210tss3.i

PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 110 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 4

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (in) FOUNDATION	lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
CASTLETON: 173+60.0, ~~LT~~ RT	0041 1103 0329	1	6	10	0.42																											SIGN ID CODE VD-700 SIGN TO BE MOUNTED ON EXISTING POST.			E-138
176+12.0, RT	R	1	24	24	4.00						1					~~X~~ 13' 0"		X															X			
176+38.0, RT	STOP 0041 1103 0334	1	6	10	0.42		1				1					~~X~~ 13' 3"		X															BACK-TO-BACK SIGN ID CODE VD-700			E-138
176+55.0, RT	Seminary Rd / Main St	1 1	~~42~~ 30	~~12~~ 12	~~3.5~~ 2.5						1					~~X~~ 10' 9"		X															TOP MOUNTING BRACKET REQUIRED TO INSTALL SIGNS ON POST. COSTS ASSOCIATED WITH THIS BRACKET ARE INCIDENTAL TO THE SIGN POST.		116 116	
177+26.0, RT	SPEED LIMIT 30	1	24	30	5.00						1					~~X~~ 13' 0"		X															SIGN ID CODE R2-1	X		
177+78.0, LT	SPEED LIMIT 30	1	24	30	5.00						1					~~X~~ 13' 3"		X															SIGN ID CODE R2-1	X		
TOTALS		SF ~~14.84~~ 20.84		SF	EA. 1	SF						LF			LF	~~70~~ 63.25			EA.	LB			EA.	LB				EA.	EA.	LB						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TRAFFIC SIGN SUMMARY SHEET #4

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2908(I)

FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210tss4.i

PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 111 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 5

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	FOUND-ATION	TUBULAR STEEL Ø (in) lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
CASTLETON:																																				
I79+04.0, RT	Elm st / Main st	I	30	12	2.50						I					~~X~~ 11' 0"		X															TOP MOUNTING BRACKET REQUIRED TO INSTALL SIGNS ON POST. COSTS ASSOCIATED WITH THIS BRACKET ARE INCIDENTAL TO THE SIGN POST.		116	
		I	30	12	2.50																													116	
I79+39.0, LT	Mechanic st / Main st	I	42	12	3.50						I					~~X~~ 11' 0"		X															TOP MOUNTING BRACKET REQUIRED TO INSTALL SIGNS ON POST. COSTS ASSOCIATED WITH THIS BRACKET ARE INCIDENTAL TO THE SIGN POST.		116	
		I	30	12	2.50																													116	
I79+40.0, LT		I	30	30	6.25						I					~~X~~ 15' 0"		X															SIGN ID CODE W11-2 SIGN SHALL BE FLUORESCENT YELLOW GREEN	X		
		I	24	12	2.00																												SIGN ID CODE W16-7P SIGN SHALL BE FLUORESCENT YELLOW GREEN	X		
I79+46.0, RT		I	30	30	6.25						I					~~X~~ 14' 9"		X															SIGN ID CODE W11-2 SIGN SHALL BE FLUORESCENT YELLOW GREEN	X		
		I	24	12	2.00																												SIGN ID CODE W16-7P SIGN SHALL BE FLUORESCENT YELLOW GREEN	X		
I79+50.0, RT	STOP 0041 1103 0340	I	30	30	6.25						I					~~X~~ 13' 0"		X															BACK-TO-BACK SIGN ID CODE R1-1 SIGN ID CODE VD-700	X		E-138
		I	6	10	0.42																															
I79+50.0, LT	STOP 0041 1103 0340	I	30	30	6.25						I					~~X~~ 13' 3"		X															BACK-TO-BACK SIGN ID CODE R1-1 SIGN ID CODE VD-700	X		E-138
		I	6	10	0.42																															
											LF	LF	LF	LF	LF ~~84~~ 78.0	LF		EA.	LB	LB	LB		LB	LB	LB	LB								
TOTALS		SF 40.84	SF	EA.	SF		LF		LF ~~84~~ 78.0		LB	EA.	LB														EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TRAFFIC SIGN SUMMARY SHEET #5

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2908(I)

FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210tss4.i

PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 112 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 6

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	FOUND-ATION	TUBULAR STEEL Ø (in) lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
CASTLETON: 179+75.0, RT	RESERVED PARKING	1	12	18	*1.50						1					*X		*X															SIGN ID CODE R7-8 •NOT DONE; STUMP TO BE REMOVED BY BUSINESS OWNER	X		
180+42.0, RT		1	30	30	6.25						1					~~X~~ 14' 9"		X															SIGN ID CODE W11-2 SIGN SHALL BE FLOURESCENT YELLOW GREEN	X		
		1	24	12	2.00																												SIGN ID CODE W16-7P SIGN SHALL BE FLOURESCENT YELLOW GREEN	X		
180+94.0, LT		1	30	30	6.25						1					~~X~~ 15' 0"		X															SIGN ID CODE W11-2 SIGN SHALL BE FLUORESCENT YELLOW GREEN	X		
		1	24	12	2.00																												SIGN ID CODE W16-7P SIGN SHALL BE FLUORESCENT YELLOW GREEN	X		
182+44.0, LT	RESERVED PARKING	1	12	18	1.50						1					~~X~~ 12' 3"		X															SIGN ID CODE R7-8	X		
184+80.0, LT	SPEED LIMIT 30	1	24	30	5.00						1					~~X~~ 13' 3"		X															SIGN ID CODE R2-1	X		
	0041 1103 0350	1	6	10	0.42																												SIGN ID CODE VD-700			E-138
											LF	LF	LF	LF	LF ~~70~~ 55.25	LF		EA.	LB	LB	LB		LB	LB	LB	LB									
TOTALS			SF ~~24.92~~ 23.42	SF	EA.	SF					LF			LF ~~70~~ 55.25					LB			EA.	LB				EA.	EA.	LB						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TRAFFIC SIGN SUMMARY SHEET #6

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2908(I)

FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210tssl.i

PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 113 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 7

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	FOUND-ATION	TUBULAR STEEL Ø (in) lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
CASTLETON: 184+80.0, RT	SPEED LIMIT 30	1	24	30	5.00						1					~~X~~ 13' 3"		X															SIGN ID CODE R2-1	X		
186+17.0, LT	NO PARKING ON ANY SIGNED STREET FROM 11 PM – 7 AM. NOV. 1 THRU APR. 1 VEHICLES MAY BE TOWED AND/OR TOWN OF CASTLETON						+				+					~~X~~		~~X~~															SALVAGED SIGN TO BE MOUNTED ON NEW POST. SIGN WAS NOT AT THIS LOCATION.	-	-	-
187+25.0, LT		1	30	30	6.25						1					~~X~~ 15' 0"		X															SIGN ID CODE W11-2 SIGN SHALL BE FLUORESCENT YELLOW GREEN	X		
	AHEAD	1	24	12	2.00																												SIGN ID CODE W16-9P SIGN SHALL BE FLUORESCENT YELLOW GREEN	X		
190+54.0, LT	Mill St / Main St	1 1	30 30	12 12	2.50 2.50						1					~~X~~ 11' 0"		X															TOP MOUNTING BRACKET REQUIRED TO INSTALL SIGNS ON POST. COSTS ASSOCIATED WITH THIS BRACKET ARE INCIDENTAL TO THE SIGN POST.		116 116	
190+59.0, LT	STOP 0041 1103 0361	1 1	30 6	30 10	6.25 0.42						1					~~X~~ 13' 0"		X															BACK-TO-BACK SIGN ID CODE R1-1 SIGN ID CODE VD-700	X		E-138
												LF	LF	LF	LF	LF ~~70~~ 52.25	LF		EA.	LB	LB	LB		LB	LB	LB	LB								
TOTALS		SF 24.92	SF	SF	EA. + 0	SF						LF			LF ~~70~~ 52.25					LB			EA.	LB				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TRAFFIC SIGN SUMMARY SHEET #7

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2908(I)

FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210tssl.i

PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 114 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 8

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST POST		NEW SIGN POSTS																		REMARKS	SIGN DETAIL		
		EA	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN	SALV TIS	RETAIN	SALVAGE	NO. OF POSTS	FLANGED CHANNEL lb/ft			SQUARE STEEL (in) lb/ft			ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft			FOUND-ATION	TUBULAR STEEL Ø (in) lb/ft				W-SHAPE STEEL FTG. SIZE		WEIGHT	POST SIZE	SIGN FRAME REQUIRED	SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
												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"							
	SHEET 108 SUBTOTAL				~~24.83~~ 30.83		-								~~28~~ 13.25	~~70~~ 62.0																				
	SHEET 109 SUBTOTAL				18.92		-								-	~~70~~ 65.0																				
	SHEET 110 SUBTOTAL				22.25		-								-	~~70~~ 62.0																				
	SHEET 111 SUBTOTAL				~~14.84~~ 20.84		1								-	~~70~~ 63.25																				
	SHEET 112 SUBTOTAL				40.84		-								-	~~84~~ 78.0																				
	SHEET 113 SUBTOTAL				~~24.92~~ 23.42		-								-	~~70~~ 55.25																				
	SHEET 114 SUBTOTAL				24.92		~~+~~ 0								-	~~70~~ 52.25																				
	ROUNDING				0.48		-								2	16																				
												LF	LF	LF	LF	LF	LF		EA.	LB	LB	LB		LB	LB	LB	LB								
															~~30~~ 13.25	~~520~~ 437.75																				
	TOTALS				SF ~~172~~ 182.02	SF	EA. ~~2~~ 1	SF				LF			LF ~~550~~ 451.00					LB			EA.	LB				EA.	EA.	LB						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

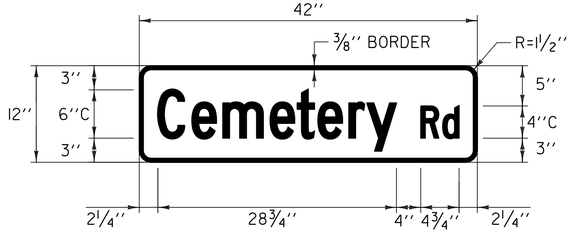
TRAFFIC SIGN SUMMARY SHEET #8

PROJECT NAME: CASTLETON

PROJECT NUMBER: STP 2908(I)

FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210tssl.i

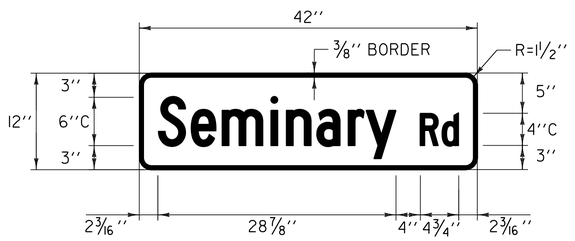
PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 115 OF 152



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-123

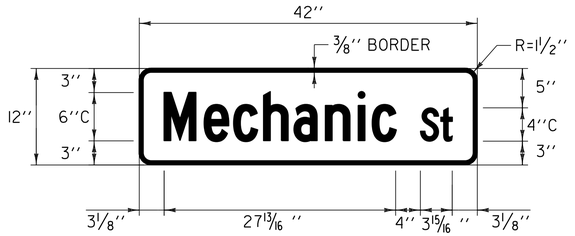
LOCATION: VT. ROUTE 4A
CASTLETON:
STA 159+36.0, LT



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-123

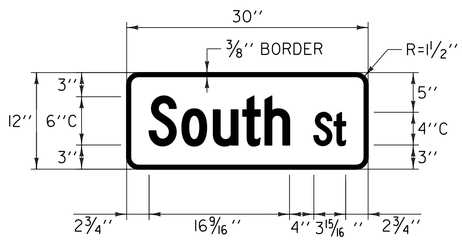
LOCATION: VT. ROUTE 4A
CASTLETON:
STA 176+55.0, RT



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-123

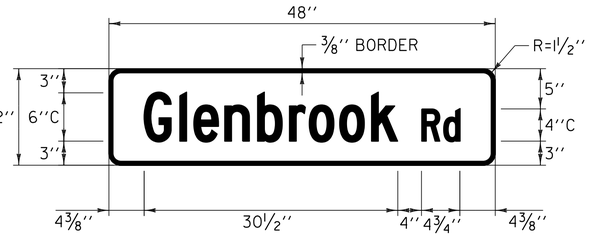
LOCATION: VT. ROUTE 4A
CASTLETON:
STA 179+39.0, LT



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-123

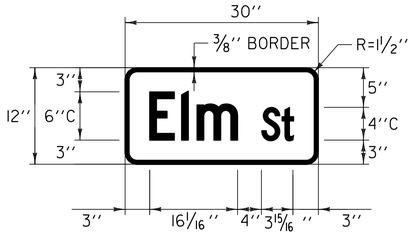
LOCATION: VT. ROUTE 4A
CASTLETON:
STA 171+73.0, RT



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-123

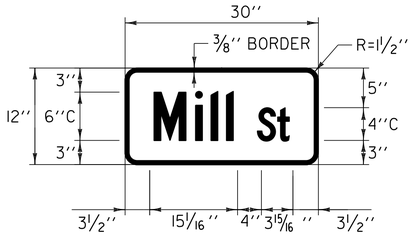
LOCATION: VT. ROUTE 4A
CASTLETON:
STA 165+45.0, RT
STA 165+45.0, RT



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-123

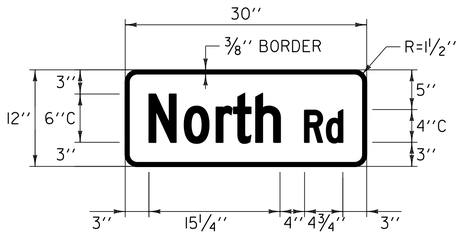
LOCATION: VT. ROUTE 4A
CASTLETON:
STA 179+04.0, RT



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-123

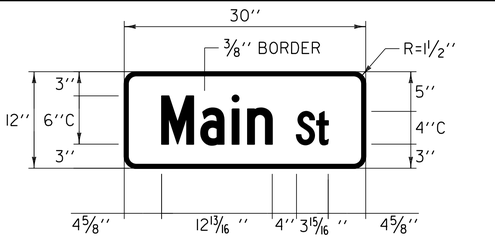
LOCATION: VT. ROUTE 4A
CASTLETON:
STA 190+54.0, LT



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-123

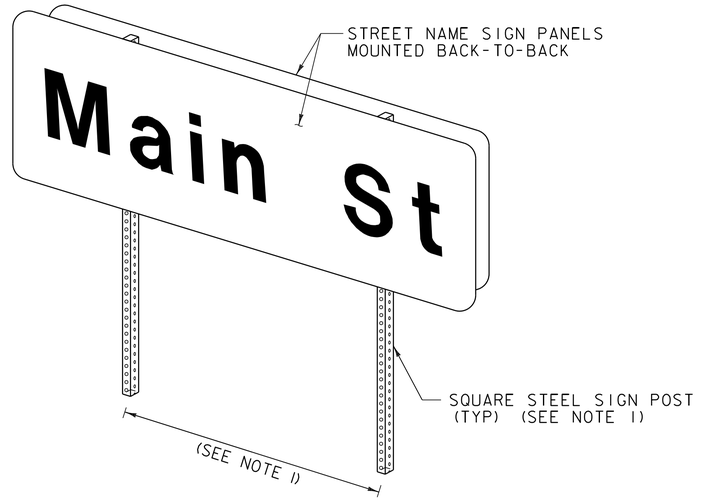
LOCATION: VT. ROUTE 4A
CASTLETON:
STA 171+65.0, LT



COLOR: WHITE BORDER & TEXT (REFLECTORIZED)
GREEN BACKGROUND (REFLECTORIZED)

MATERIAL: PER VAOT STANDARD E-123

LOCATION: VT. ROUTE 4A
CASTLETON:
STA 159+36.0, LT
STA 165+45.0, RT
STA 171+65.0, LT
STA 171+73.0, RT
STA 176+55.0, RT
STA 179+04.0, RT
STA 179+39.0, LT
STA 190+54.0, LT



TWO POST STREET NAME SIGN INSTALLATION FOR STREET NAME >42"

NOTE:

1. SEE VAOT STANDARD E-164 FOR SQUARE STEEL SIGN POST DETAILS & POST SPACING REQUIREMENTS.

NOT TO SCALE

TRAFFIC SIGN DETAILS SHEET

PROJECT NAME: CASTLETON

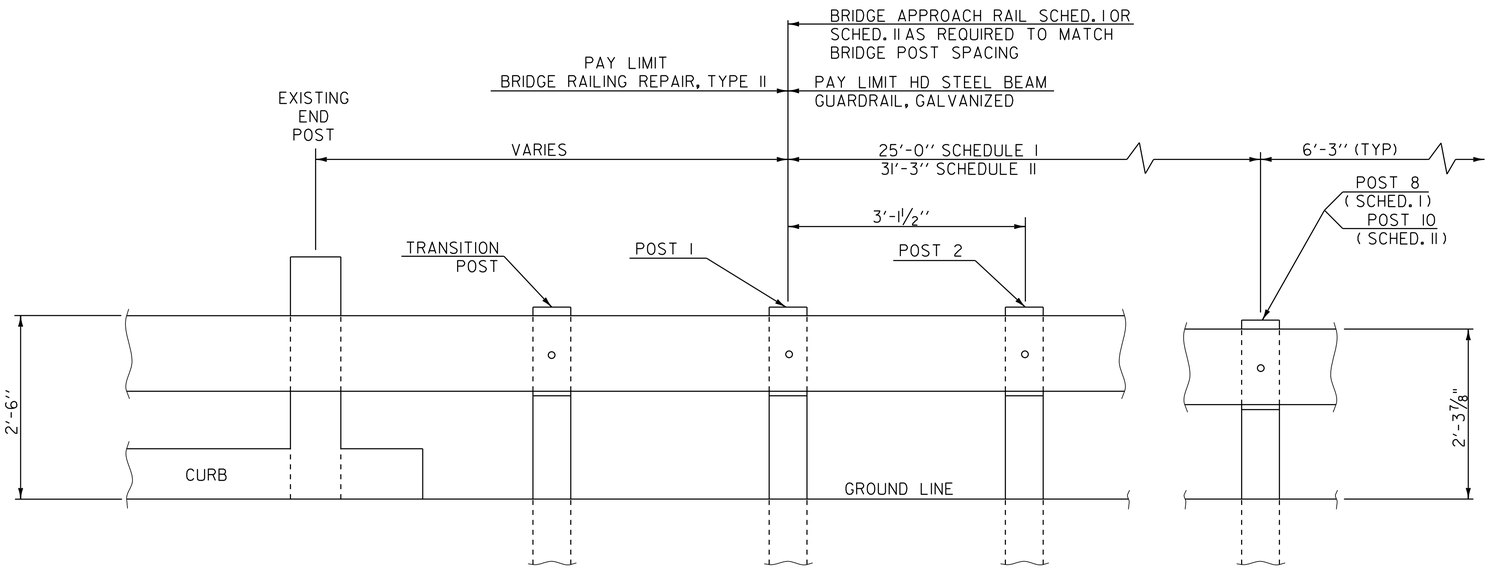
PROJECT NUMBER: STP 2908(I)

FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210tsd.i

PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 116 OF 152

BRIDGE QUANTITY SHEET

STATION	POS.	BRIDGE NUMBER	OFFSET BLOCK	525.10 REMOVAL OF EXISTING RAIL	525.50 BRIDGE RAILING REPAIR, TYPE I	REMARKS
			IN	LF	LF	
CASTLETON						
159+07.5 - 159+32.5	RT	5	8	25.0	25.0	
159+07.5 - 159+32.5	LT	5	8	25.0	25.0	
ROUNDING				-	-	
TOTAL				50.0	50.0	



SCHEDULE I

POST NO.	SPACING	PAYMENT FACTOR
1	3'-1½"	1.4 x 12'-6"
2	3'-1½"	
3	3'-1½"	
4	3'-1½"	
5	4'-2"	1.2 x 12'-6"
6	4'-2"	
7	4'-2"	
8	6'-3" (TYP.)	1.0 (TYP)
9		
PAYMENT LENGTH = 32'-6"		

SCHEDULE II

POST NO.	SPACING	PAYMENT FACTOR
1	3'-1½"	1.4 x 18'-9"
2	3'-1½"	
3	3'-1½"	
4	3'-1½"	
5	3'-1½"	
6	3'-1½"	
7	4'-2"	1.2 x 12'-6"
8	4'-2"	
9	4'-2"	
10	6'-3" (TYP)	1.0 (TYP)
11		
PAYMENT LENGTH = 41'-3"		

SCHEDULE I APPROACH RAILING SHALL BE USED WHEN A RAIL PANEL SPLICE OCCURS AT POST NO. 1.
SCHEDULE II APPROACH RAILING SHALL BE USED WHEN A RAIL PANEL SPLICE OCCURS AT THE BRIDGE END POST.

BRIDGE APPROACH RAILING

GENERAL NOTES

1. BRIDGE RAIL SHALL BE HD STEEL BEAM RAIL.
2. BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25'.
3. APPROACH RAILING SHALL BE HD STEEL BEAM FOR 25' FROM THE ENDS OF THE BRIDGE UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT ENGINEER.
4. FOR BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS PRACTICABLE TO THE MIDPOINT BETWEEN THE BRIDGE END POST AND APPROACH RAIL POST 1.
5. SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
6. SEE VAOT STANDARD SHEET G-1 FOR DELINEATION DETAILS AND PLACEMENT.
7. ERECT DELINEATORS ON EVERY FIFTH POST OR APPROXIMATELY 31'-3" APART. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS.
8. ALL BRIDGE POSTS, HD STEEL BEAM BRIDGE RAIL, AND RELATED HARDWARE SHALL BE PAID FOR UNDER THE APPROPRIATE BRIDGE RAILING ITEMS AS DENOTED IN THE PLANS.
9. SEE STANDARD SHEET G-1 FOR CONNECTION OF STEEL BEAM TO OFFSET BLOCK AND OFFSET BLOCK TO BRIDGE POST.
10. NEW BRIDGE RAILING POSTS SHALL BE SET NORMAL TO GRADE.
11. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10 OF THE STANDARD SPECIFICATIONS.
12. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON LIMITED FIELD INVESTIGATION AND AVAILABLE RECORD DRAWING INFORMATION. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO THE CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS AS DIRECTED BY THE RESIDENT ENGINEER.
13. ALL LANES SHALL BE OPENED TO TRAFFIC DURING NON-WORKING HOURS. NO GAPS BETWEEN EXISTING RAILING AND NEW RAILING WILL BE PERMITTED. DETAILS FOR TEMPORARY RAIL SHALL BE SUBMITTED FOR APPROVAL IF REQUIRED TO BRIDGE GAPS IN RAILING. PAYMENT FOR TEMPORARY RAIL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 525.10 REMOVAL OF EXISTING RAILING.
14. ALL OFFSET BLOCKS AND FIXTURES SHALL BE PROVIDED IN ACCORDANCE WITH SUBSECTION 732.04, UNLESS OTHERWISE NOTED, AND SHALL BE GALVANIZED AFTER FABRICATION TO CONFORM TO AASHTO M111M/M111.

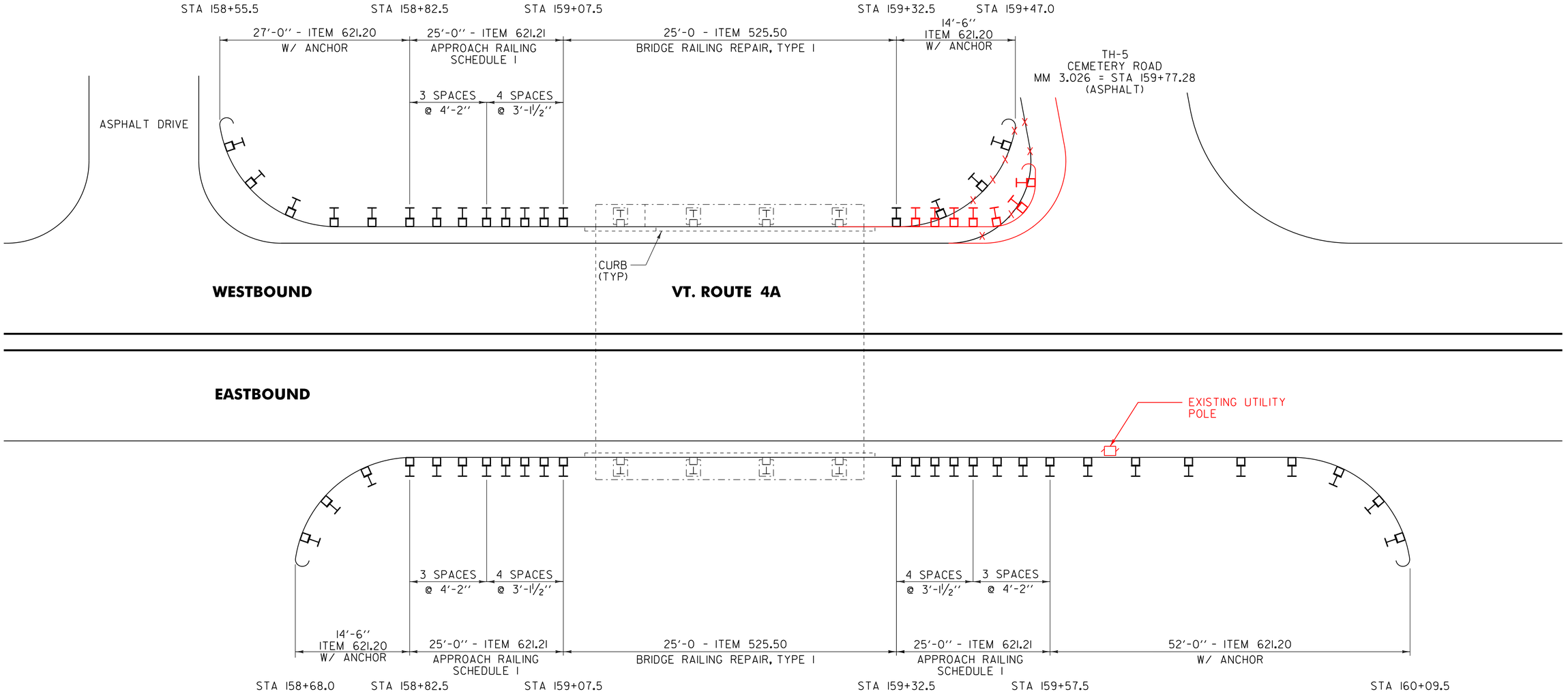
NOT TO SCALE

BRIDGE DETAIL SHEET #1

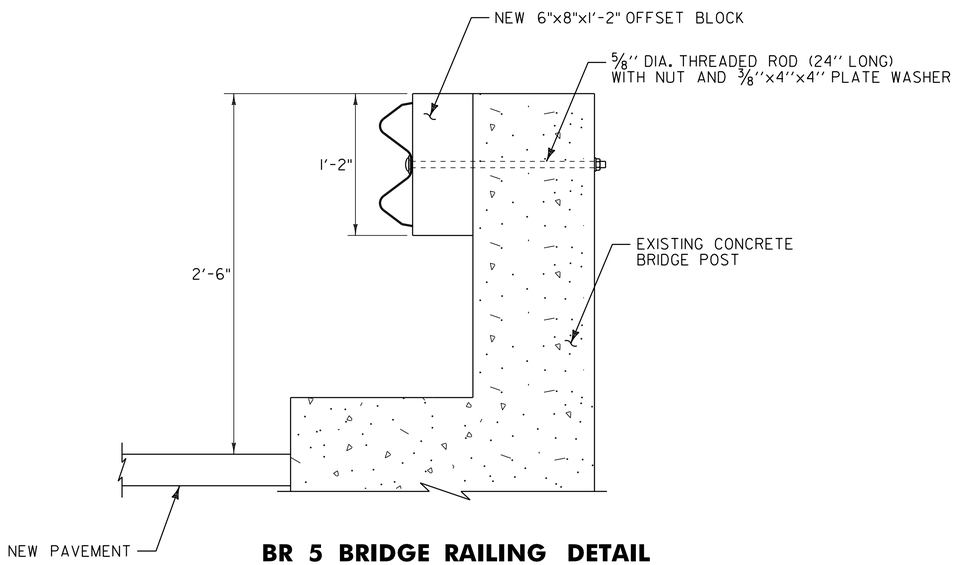
PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2908(1)

FILE NAME: p10c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c210bdl.i

PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 117 OF 152



BR 5 CASTLETON MM 3.015 = STA 159+19.20



BR 5 BRIDGE RAILING DETAIL

NOTE:

1. SEE VAOT STANDARD SHEET SB-R6-82 FOR ADDITIONAL DETAILS.
2. THREADED ROD AND HEAVY HEX NUT SHALL CONFORM TO SUBSECTION 714.07.
3. PLATE WASHERS SHALL BE FABRICATED FROM MATERIAL CONFORMING TO SUBSECTION 714.02.
4. ALL HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH SUBSECTION 506.15.

NOT TO SCALE

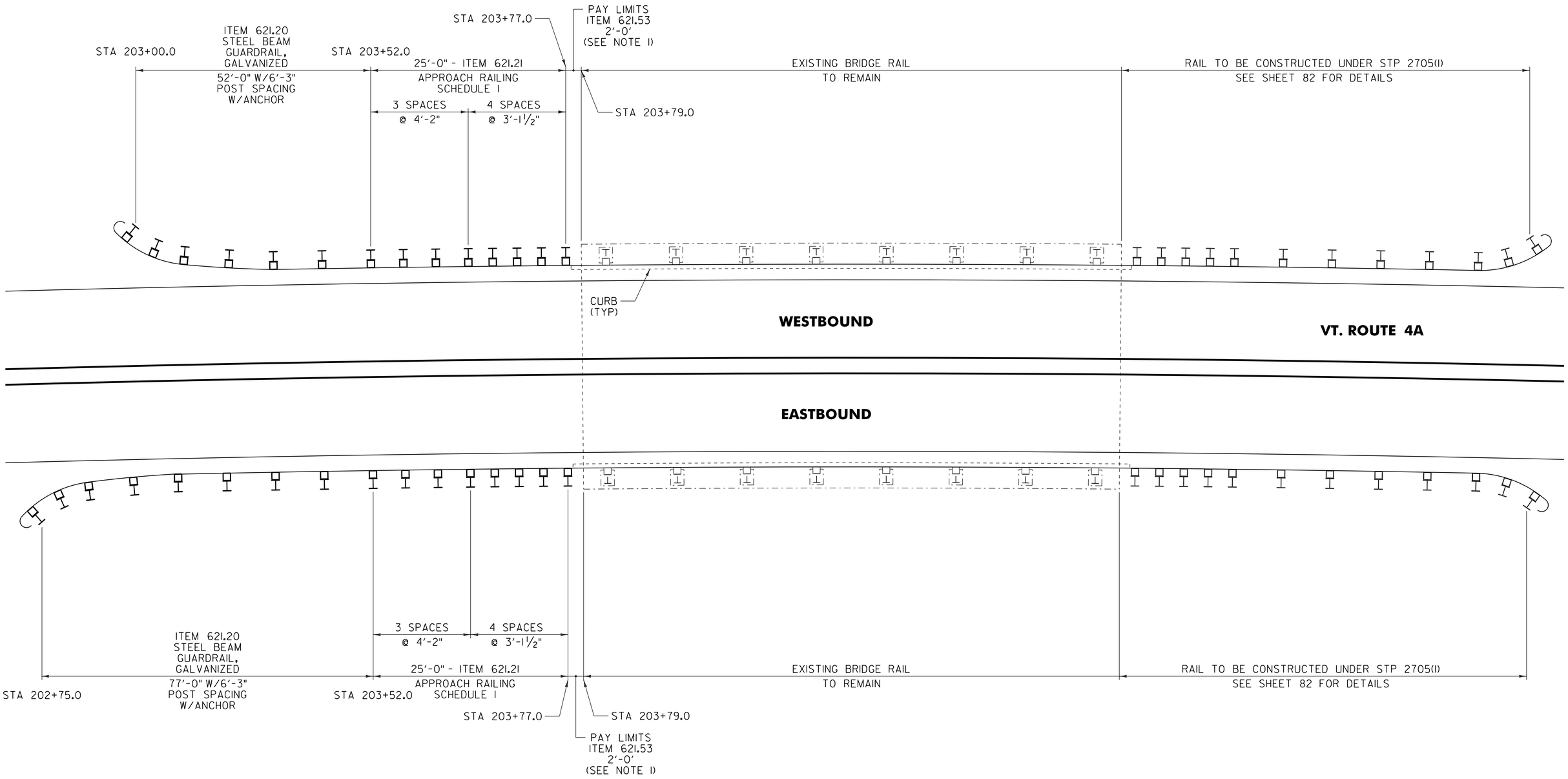
BRIDGE DETAIL SHEET #2

PROJECT NAME: CASTLETON

PROJECT NUMBER: STP 2908(I)

FILE NAME: pl0c210.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c210bd2.i

PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 118 OF 152



BR 7 CASTLETON MM 3.866 = STA 204+12.48

NOT TO SCALE

NOTE:

1. SEE VAOT STANDARD SHEET G-16 FOR TERMINAL CONNECTOR FOR STEEL BEAM GUARDRAIL INSTALLATION DETAILS.

BRIDGE DETAIL SHEET #3

PROJECT NAME: CASTLETON

PROJECT NUMBER: STP 2908(I)

FILE NAME: pl0c2l0.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68bd3.i

PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 119 OF 152

INDEX OF SHEETS
SEE SHEET 2

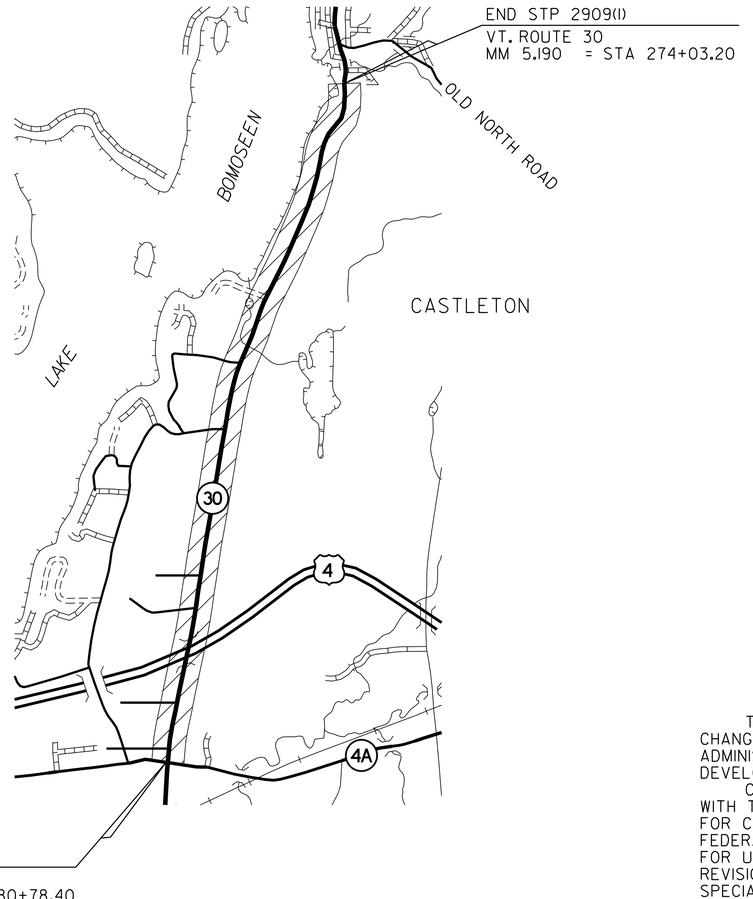
STATE OF VERMONT
AGENCY OF TRANSPORTATION

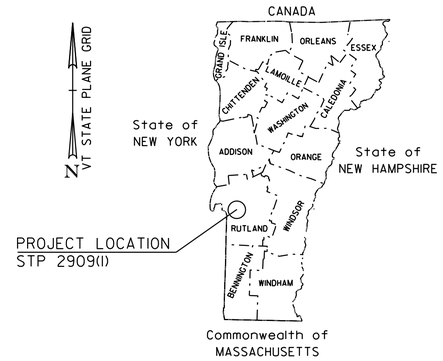
PROPOSED IMPROVEMENT
TOWN OF CASTLETON
COUNTY OF RUTLAND
VT. ROUTE 30
MAJOR COLLECTOR

BEGINNING IN THE TOWN OF CASTLETON ON VT. ROUTE 30 AT MILE MARKER 1.530 = STA 80+78.40 AND EXTENDING NORTHERLY FOR A DISTANCE OF 19,324.80 FEET (3.660 MILES) TO A POINT IN THE TOWN OF CASTLETON ON VT. ROUTE 30 AT MILE MARKER 5.190 = STA 274+03.20.

LENGTH OF ROADWAY 19,324.80 FT (3.660 MILES)
LENGTH OF PROJECT 19,324.80 FT (3.660 MILES)

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING AND RESURFACING OF THE EXISTING HIGHWAY WITH A SHIM/LEVELING COURSE AND WEARING COURSE, NEW PAVEMENT MARKINGS, DRAINAGE IMPROVEMENTS, NEW SIGNS AND INCIDENTAL ITEMS.





BITUMINOUS CONCRETE SUPERPAVE MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESAL	58-28
DESIGN NUMBER OF GYRATIONS	65
PERFORMANCE GRADE ASPHALT BINDER	SEE SECTION 490 GENERAL SPECIAL PROVISIONS & SPECIAL PROVISIONS

TRAFFIC DATA

LOCATION	AADT		DHV		ESALs	ESALs
	2012	2022	2012	2022	2012~2022	2012~2032
BEGIN PROJECT TO US 4 EASTBOUND RAMPS	6500	6700	730	760	1,020,000	2,524,000
US 4 EASTBOUND RAMPS TO US 4 WESTBOUND RAMPS	5100	5300	580	600	800,000	1,999,000
US 4 WESTBOUND RAMPS TO END PROJECT	3200	3400	360	380	614,000	1,394,000

QUALITY ASSURANCE PROGRAM: LEVEL 3

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 (SR SR SR)
TOP OF CUT
TOE OF SLOPE

SURVEYED BY : NA
SURVEYED DATE : NA

DATUM
VERTICAL NA
HORIZONTAL NA

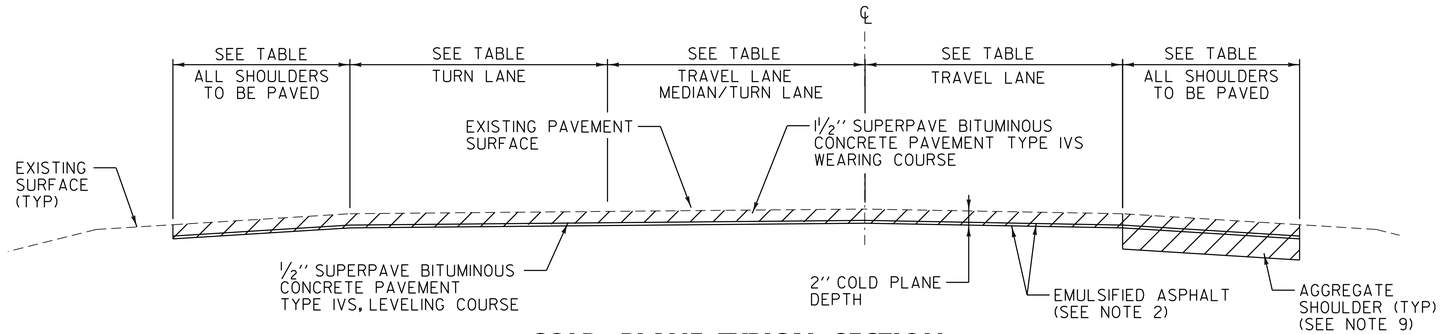
THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.

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.

PROJECT MANAGER : MIKE FOWLER

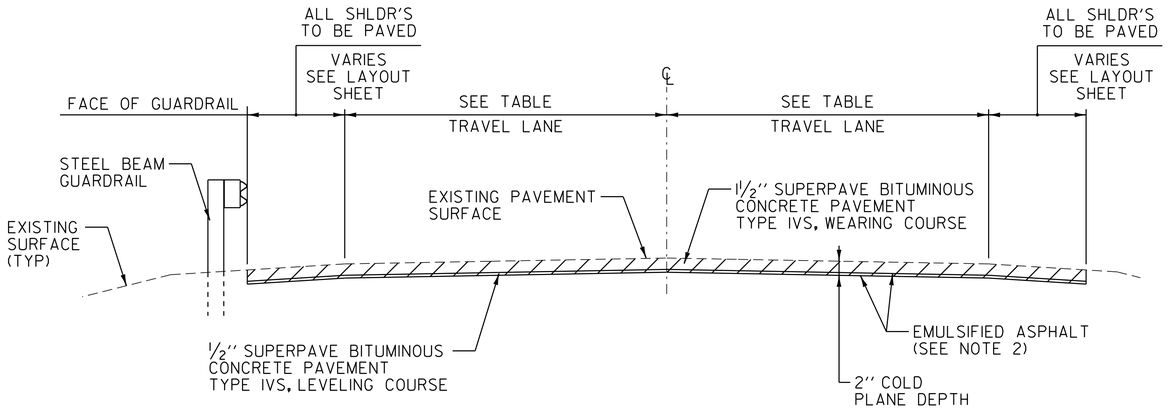
PROJECT NAME : CASTLETON
PROJECT NUMBER : STP 2909(I)

SHEET 120 OF 152 SHEETS



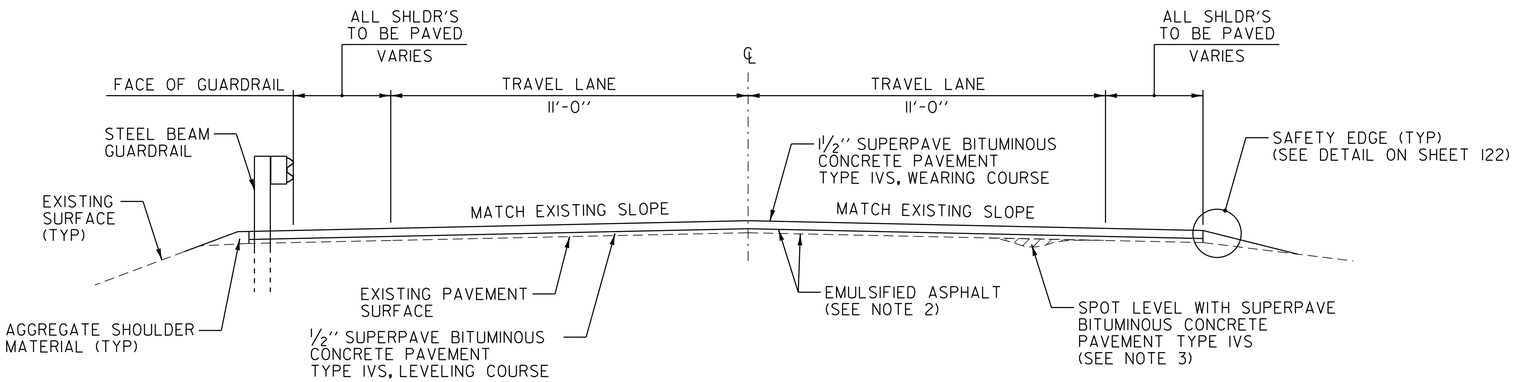
COLD PLANE TYPICAL SECTION

VT. ROUTE 30 CASTLETON STA 80+78.40 TO CASTLETON STA 83+20.00
VT. ROUTE 30 CASTLETON STA 100+50.00 TO CASTLETON STA 120+50.00



COLD PLANE TYPICAL SECTION

VT. ROUTE 30 CASTLETON STA 83+20.00 TO CASTLETON STA 100+50.00
VT. ROUTE 30 CASTLETON STA 120+50.00 TO CASTLETON STA 125+66.40



OVERLAY TYPICAL SECTION

VT. ROUTE 30 CASTLETON STA 125+66.40 TO CASTLETON STA 274+03.20

PROJECT PAVING LIMITS

TOWN & ROUTE	BEGIN STATION	END STATION	WARM-MIX TECHNOLOGIES	LANE TYPICAL	WEARING DEPTH	LEVELING TON	NOTES
CASTLETON:							
VT. ROUTE 30	80+78.40	83+20.00	ORGANIC WAX	3'-0" - 10'-0'' - 12'-0" - 12'-0" - 7'-0''	1½''	30	COLD PLANE 2'', LEVEL WITH ½'' TYPE IVS & PAVE WITH 1½'' TYPE IVS
VT. ROUTE 30	83+20.00	95+50.00	ORGANIC WAX	3'-0" - 11'-0" - 11'-0" - 3'-0"	1½''	112	COLD PLANE 2'', LEVEL WITH ½'' TYPE IVS & PAVE WITH 1½'' TYPE IVS
VT. ROUTE 30	95+50.00	100+50.00	ORGANIC WAX	4'-0" - 11'-0" - 11'-0" - 4'-0"	1½''	57	COLD PLANE 2'', LEVEL WITH ½'' TYPE IVS & PAVE WITH 1½'' TYPE IVS
VT. ROUTE 30	100+50.00	120+50.00	ORGANIC WAX	VARIES SEE PLAN	1½''	350	COLD PLANE 2'', LEVEL WITH ½'' TYPE IVS & PAVE WITH 1½'' TYPE IVS
VT. ROUTE 30	120+50.00	125+66.40	ORGANIC WAX	9'-0" - 12'-0" - 12'-0" - 9'-0"	1½''	59	COLD PLANE 2'', LEVEL WITH ½'' TYPE IVS & PAVE WITH 1½'' TYPE IVS
VT. ROUTE 30	125+66.40	273+50.00	ORGANIC WAX	3'-0" - 11'-0" - 11'-0" - 3'-0"	1½''	1341	LEVEL WITH ½'' TYPE IVS & PAVE WITH 1½'' TYPE IVS
VT. ROUTE 30	273+50.00	274+03.20	ORGANIC WAX	4'-0" - 11'-0" - 11'-0" - 4'-0"	1½''	5	LEVEL WITH ½'' TYPE IVS & PAVE WITH 1½'' TYPE IVS

NOTES

1. THE WEARING COURSE SHALL BE TYPE IVS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT. THE LEVELING COURSE SHALL BE TYPE IVS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
2. THE COLD PLANED SURFACE SHALL HAVE A SURFACE PREP BEFORE THE LEVELING COURSE IS PLACED. SURFACE PREP SHALL CONSIST OF POTHOLE PATCHING AND PATCHING OF ALL LARGE CRACKS THAT ARE AT LEAST 1" IN WIDTH AND PAID FOR UNDER ITEM 900.680 SPECIAL PROVISIONS (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE II). COLD PLANED SURFACES SHALL HAVE A TACK COAT APPLICATION RATE OF 0.08 GAL/SQ. YD. OF CRSI-H OR RSI-H. TACK COAT APPLICATION RATE ON ALL OTHER PAVED SURFACES SHALL BE 0.025 TO 0.040 GAL/SQ. YD. OF CRSI-H OR RSI-H.
3. AN EXTRA QUANTITY OF ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT HAS BEEN ADDED TO THE HOT MIX TOTAL FOR SPOT LEVELING BEFORE FULL WIDTH LEVELING IN AN EFFORT TO CORRECT THE WORST PROFILE DEFICIENCIES AS DIRECTED BY THE RESIDENT ENGINEER.
4. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = +/- ¼'' (TOTAL PAVEMENT THICKNESS EXCLUDING LEVELING).
5. COLD PLANING SHALL BE COMPLETED AS NOTED ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.
6. ALL EDGES OF PAVEMENT SHALL BE BACKED UP TO FULL HEIGHT WITH AGGREGATE SHOULDER MATERIAL AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER ITEM 402.12 AGGREGATE SHOULDERS.
7. THE PROPOSED GUARDRAIL SHALL BE INSTALLED IN A LOCATION THAT MAXIMIZES THE DISTANCE FROM THE CENTER OF THE ROAD TO THE FACE OF GUARDRAIL. 3'-7'' OF BACKING IS REQUIRED BEHIND THE FACE OF GUARDRAIL WITH 6' POSTS, ITEM 621.20 STEEL BEAM GUARDRAIL, GALVANIZED. IF THIS CANNOT BE OBTAINED, THEN ITEM 621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/ 8 FEET POSTS SHALL BE USED AS DIRECTED BY THE RESIDENT ENGINEER.
8. 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.
9. 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 ITEM 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I OR ITEM 608.15 POWER GRADER RENTAL. MATERIAL REMOVED SHALL BE REPLACED WITH ITEM 301.40 SUBBASE, RAP. EXCAVATED MATERIAL SHALL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM THE PROJECT AS DIRECTED BY THE RESIDENT ENGINEER.
10. THE WEARING COURSE OF ALL OF CONTRACT ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, SHALL UTILIZE THE REQUIREMENTS OF ITEM 900.645, SPECIAL PROVISION (INTELLIGENT COMPACTION EQUIPMENT) AS CONTAINED WITHIN THE CONTRACT DOCUMENTS. ALL OTHER CONTRACT PROVISIONS ASSOCIATED WITH ITEM 490.30 SHALL APPLY IN CONJUNCTION WITH THE REQUIREMENTS OF ITEM 900.645.

SEEDING FORMULA

RATE: DOUBLE IF HYDROSEEDING

% WT.	LBS./A.	NAME	PUR %	GERM %
38	32	CREEPING RED FESCUE	98	90
29	24	SPARTAN HARD FESCUE	95	85
15	12	AZAY SHEEP'S FESCUE	95	87
15	12	ANNUAL RYE GRASS	95	90
3	--	INERTS	--	--
100.0	80			

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

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

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

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

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

HAY MULCH:
TO BE APPLIED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE OR AS DIRECTED BY THE RESIDENT ENGINEER.

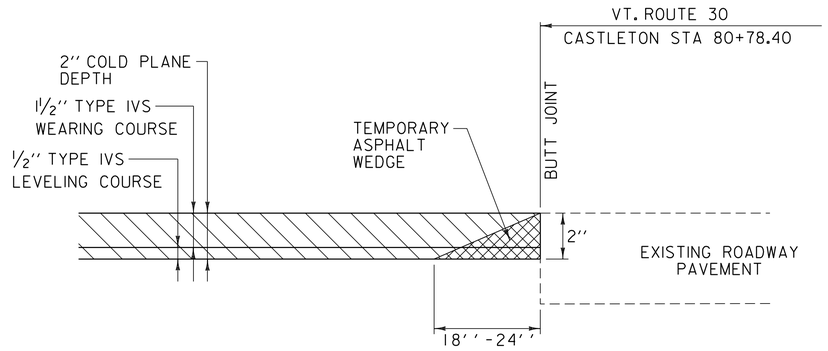
NOT TO SCALE

PROJECT TYPICAL SHEET

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

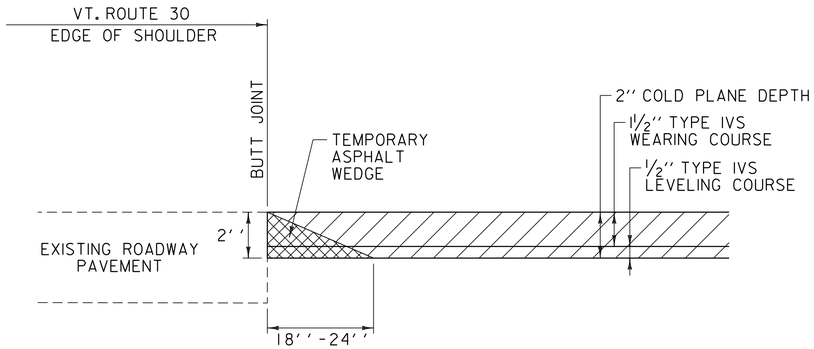
FILE NAME: pl0c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c212typ.i

PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 121 OF 152



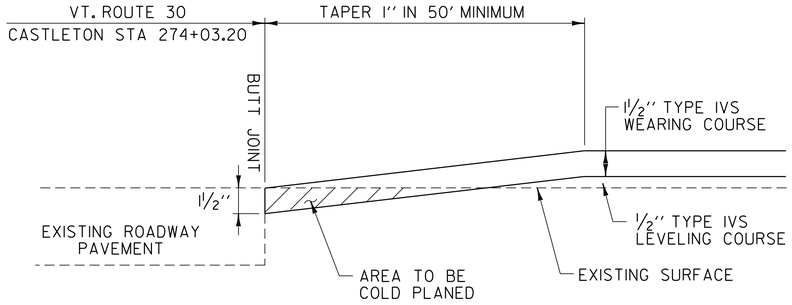
COLD PLANE APPROACH AREA DETAIL

VT. ROUTE 30 CASTLETON STA 80+78.40 - BEGIN PROJECT



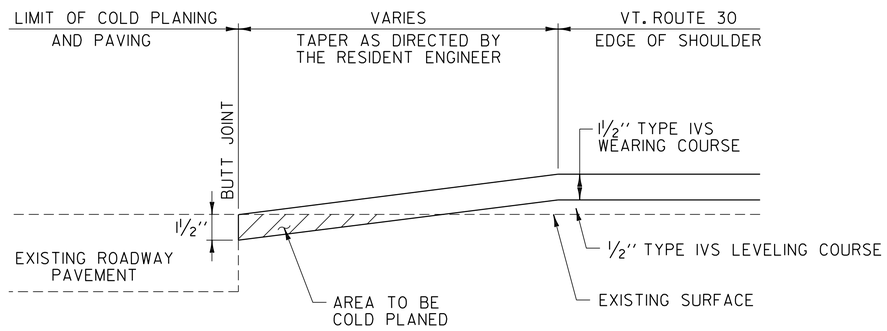
COLD PLANE SIDE ROAD DETAIL

CASTLETON:	TH-71	STA 88+07.04	LT
	RAMP P	STA 104+12.16	RT
	RAMP N	STA 105+23.04	LT
	RAMP Q	STA 115+26.24	RT
	RAMP R	STA 116+21.28	LT
	TH-68	STA 122+65.44	LT



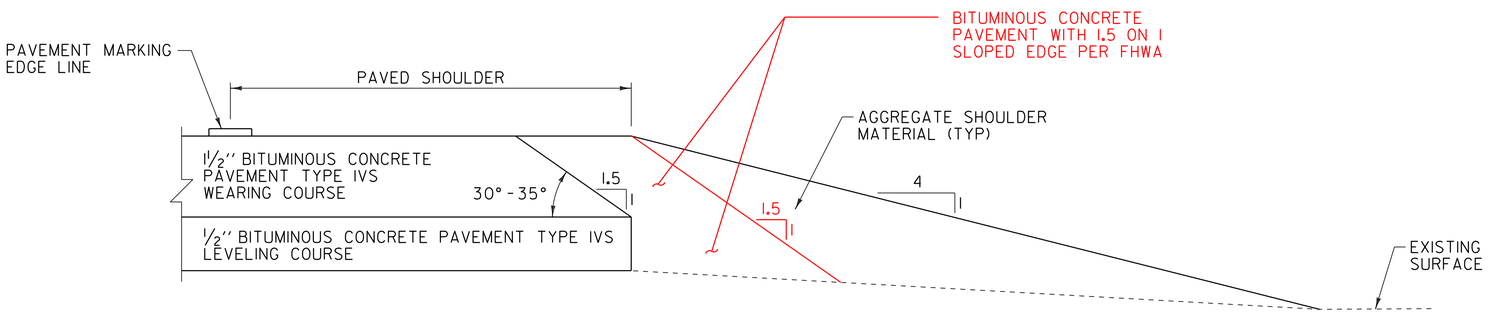
OVERLAY APPROACH AREA DETAIL

VT. ROUTE 30 CASTLETON STA 274+03.20 - END PROJECT



OVERLAY SIDE ROAD DETAIL

CASTLETON: TH-24 STA 173+23.68 LT



SAFETY EDGE DETAIL

VT. ROUTE 30 CASTLETON STA 125+66.40 TO CASTLETON STA 274+03.20

NOT TO SCALE

PAVING DETAILS SHEET

PROJECT NAME: CASTLETON

PROJECT NUMBER: STP 2909(I)

FILE NAME: pl0c2l2.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c2l2pd.i

PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 122 OF 152

STATION	POSITION	QUANTITY (SY)	TYPE OF HANDWORK
CASTLETON VT. ROUTE 30:			
80+86	LT	7	ASPHALT DRIVE
81+01	RT	16	ASPHALT DRIVE
81+71	LT	15	ASPHALT DRIVE
81+99	RT	40	ASPHALT DRIVE
82+94	LT	10	ASPHALT DRIVE
83+22	RT	24	ASPHALT DRIVE
84+07	LT	65	GRAVEL DRIVE
84+18	RT	20	ASPHALT DRIVE
84+61	LT	19	ASPHALT DRIVE
85+72	LT	17	ASPHALT DRIVE
86+20	LT	8	ASPHALT DRIVE
87+37	RT	11	GRAVEL DRIVE
89+06	RT	15	GRAVEL DRIVE
89+53	LT	21	ASPHALT DRIVE
90+44	RT	20	GRAVEL DRIVE
91+53	RT	10	GRAVEL DRIVE
92+20	LT	4	GRAVEL DRIVE
92+48	RT	15	GRAVEL DRIVE
92+49	LT	6	GRAVEL DRIVE
93+08	RT	14	GRAVEL DRIVE
93+30	LT	24	GRAVEL DRIVE
95+88	RT	21	DALEY LANE (GRAVEL)
97+61	LT	34	ASPHALT DRIVE
99+72	RT	12	ASPHALT DRIVE
100+87	RT	2	FIELD ACCESS
119+54	RT	9	GRAVEL DRIVE
121+01	RT	9	GRAVEL DRIVE
123+76	RT	9	GRAVEL DRIVE
125+78	RT	11	GRAVEL DRIVE
127+47	RT	12	GRAVEL DRIVE
129+19	RT	8	GRAVEL DRIVE
129+58	RT	6	GRAVEL DRIVE
133+51	RT	20	GRAVEL DRIVE
137+75	RT	10	GRAVEL DRIVE
140+89	RT	22	GRAVEL DRIVE
141+71	LT	7	GRAVEL DRIVE
143+98	RT	10	ASPHALT DRIVE
145+73	LT	4	FIELD ACCESS
147+88	RT	14	GRAVEL DRIVE
150+87	LT	12	ASPHALT DRIVE
150+91	RT	8	GRAVEL DRIVE
152+80	RT	12	GRAVEL DRIVE
153+11	RT	8	GRAVEL DRIVE
154+62	LT	6	ASPHALT DRIVE
154+65	RT	8	GRAVEL DRIVE
155+71	LT	8	SEYMOUR ROAD (GRAVEL)
156+52	LT	14	GRAVEL DRIVE
157+18	RT	7	ASPHALT DRIVE
158+37	RT	8	FIELD ACCESS
158+76	RT	17	GRAVEL DRIVE
158+94	LT	11	ASPHALT DRIVE
162+07	RT	10	GRAVEL DRIVE
162+35	LT	7	ASPHALT DRIVE
163+55	LT	12	GRAVEL DRIVE
165+34	LT	6	ASPHALT DRIVE
165+63	RT	5	GRAVEL DRIVE
166+05	RT	10	GRAVEL DRIVE
169+01	LT	8	ASPHALT DRIVE
176+56	RT	10	TWILIGHT TERRACE (GRAVEL)
178+19	LT	8	GRAVEL DRIVE
180+84	LT	8	GRAVEL DRIVE
191+03	LT	11	PINE CLIFF ROAD (GRAVEL)
194+10	LT	24	GRAVEL DRIVE
197+92	RT	11	GRAVEL DRIVE
201+83	RT	10	GRAVEL DRIVE

STATION	POSITION	QUANTITY (SY)	TYPE OF HANDWORK
CASTLETON VT. ROUTE 30 (CONT.):			
203+41	RT	15	GRAVEL DRIVE
205+57	LT	3	FIELD ACCESS
207+42	RT	9	GRAVEL DRIVE
208+48	RT	5	GRAVEL DRIVE
208+95	RT	5	ASPHALT DRIVE
211+04	LT	11	PROSPECT POINT ROAD (ASPHALT)
211+56	LT	18	GRAVEL DRIVE
211+93	LT	8	GRAVEL DRIVE
211+96	RT	10	GRAVEL DRIVE
213+57	RT	16	GRAVEL DRIVE
213+87	LT	17	ASPHALT DRIVE
215+14	LT	13	ASPHALT DRIVE
215+20	RT	18	ASPHALT DRIVE
215+81	RT	15	ASPHALT DRIVE
216+29	LT	15	GRAVEL DRIVE
216+52	RT	5	GRAVEL DRIVE
216+79	LT	29	GRAVEL DRIVE
217+03	RT	8	ASPHALT DRIVE
217+24	RT	10	GRAVEL DRIVE
217+58	RT	7	GRAVEL DRIVE
217+70	LT	52	ASPHALT DRIVE
218+41	LT	11	GRAVEL DRIVE
218+95	RT	11	GRAVEL DRIVE
219+36	RT	3	FIELD ACCESS
219+42	LT	9	GRAVEL DRIVE
219+98	RT	16	FIELD ACCESS
220+73	RT	33	GRAVEL DRIVE
221+75	RT	12	GRAVEL DRIVE
221+97	LT	14	ASPHALT DRIVE
223+28	LT	9	GRAVEL DRIVE
223+52	LT	7	ASPHALT DRIVE
223+90	RT	7	FIELD ACCESS
224+52	RT	3	FIELD ACCESS
224+97	LT	22	ASPHALT DRIVE
226+27	RT	2	FIELD ACCESS
226+52	RT	3	FIELD ACCESS
227+21	LT	14	ASPHALT DRIVE
227+70	RT	6	GRAVEL DRIVE
228+67	RT	2	FIELD ACCESS
229+46	RT	40	GRAVEL DRIVE
230+16	RT	22	ASPHALT DRIVE
230+99	RT	7	ASPHALT DRIVE
234+37	LT	12	GRAVEL DRIVE
234+47	RT	12	GRAVEL DRIVE
235+70	RT	1	FIELD ACCESS
235+91	LT	16	GRAVEL DRIVE
236+57	LT	17	ASPHALT DRIVE
236+66	RT	9	GRAVEL DRIVE
236+94	LT	8	GRAVEL DRIVE
238+35	RT	2	FIELD ACCESS
238+98	RT	6	FIELD ACCESS
239+38	LT	12	GRAVEL DRIVE
239+68	RT	14	GRAVEL DRIVE
240+92	LT	8	ASPHALT DRIVE
241+17	RT	6	GRAVEL DRIVE
241+34	LT	6	ASPHALT DRIVE
241+84	RT	14	GRAVEL DRIVE
242+89	LT	37	GRAVEL DRIVE
243+80	LT	28	ASPHALT DRIVE
245+19	LT	8	GRAVEL DRIVE
245+93	RT	8	GRAVEL DRIVE
246+94	RT	6	GRAVEL DRIVE
247+51	LT	20	GRAVEL DRIVE
247+67	RT	12	ASPHALT DRIVE
247+92	LT	2	FIELD ACCESS

STATION	POSITION	QUANTITY (SY)	TYPE OF HANDWORK
CASTLETON VT. ROUTE 30 (CONT.):			
248+48	LT	10	GRAVEL DRIVE
248+63	RT	2	FIELD ACCESS
249+16	RT	2	FIELD ACCESS
249+29	RT	4	GRAVEL DRIVE
250+13	RT	10	GRAVEL DRIVE
250+77	LT	8	GRAVEL DRIVE
252+25	LT	10	GRAVEL DRIVE
252+60	LT	12	GRAVEL DRIVE
252+98	RT	10	GRAVEL DRIVE
255+72	RT	11	GRAVEL DRIVE
255+85	LT	25	ASPHALT DRIVE
256+21	RT	7	GRAVEL DRIVE
256+56	LT	16	ASPHALT DRIVE
256+93	LT	9	GRAVEL DRIVE
257+72	LT	23	GRAVEL DRIVE
257+90	RT	10	GRAVEL DRIVE
258+23	RT	8	GRAVEL DRIVE
262+42	RT	10	CLIFF DWELLERS (GRAVEL)
266+00	LT	25	GRAVEL DRIVE
266+96	LT	19	GRAVEL DRIVE
267+42	LT	16	GRAVEL DRIVE
268+57	LT	29	GRAVEL DRIVE
273+91	RT	7	GRAVEL DRIVE
SUBTOTAL:		1949	
ROUNDING:		51	
TOTAL ITEM 900.675:		2000	

NOTE:

1. SEE SHEET 7 FOR DRIVEWAY HANDWORK DETAILS.

DRIVEWAY HANDWORK TABLES SHEET

PROJECT NAME: CASTLETON

PROJECT NUMBER: STP 2909(1)

FILE NAME: p10c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c212dht.i

PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 123 OF 152

QUANTITY SHEET 1

STATE OF VERMONT
AGENCY OF TRANSPORTATION

SUMMARY OF ESTIMATED QUANTITIES

NON-PARTICIPATING	FULL C.E.	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
		1	1	CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	
		24,250	24,250	SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	215
		100	100	TON	SUBBASE, RAP	301.40	EST.
		725	725	TON	AGGREGATE SHOULDERS	402.12	EST.
		1	1	LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	
		2225	2225	TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	21
		1	1	LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	
		1	1	LU	MAT DENSITY PAY ADJUSTMEMT (N.A.B.I.)	490.32	
		1	1	LU	SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.)	490.33	
		1	1	LU	LONGITUDINAL JOINT COMPACTION PAY ADJUSTMENT (N.A.B.I.)	490.34	
		2	2	EA	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	
		1	1	EA	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II	604.415	
		1	1	EA	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS III	604.418	
1			1	EA	CHANGING ELEVATION OF SEWER MANHOLES	604.42	
		100	100	HR	POWER GRADER RENTAL	608.15	EST.
		150	150	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST.
		35	35	HR	POWER BROOM RENTAL, TYPE I	608.30	EST.
		150	150	HR	POWER BROOM RENTAL, TYPE II	608.31	EST.
		225	225	HR	TRUCK RENTAL	608.37	EST.
		100	100	HR	LOADER RENTAL, TYPE I	608.40	EST.
		25	25	CY	STONE FILL, TYPE I	613.10	EST.
		55	55	EA	YIELDING MARKER POSTS	619.17	EST.
		200	200	LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	17
		1400	1400	LF	STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS	621.205	29.5
		8	8	EA	ANCHOR FOR STEEL BEAM GUARDRAIL	621.60	
		1400	1400	LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	16
		1100	1100	HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.
		1600	1600	HR	FLAGGERS	630.15	EST.
	0.33		0.33	LS	FIELD OFFICE, ENGINEERS	631.10	
	0.33		0.33	LS	TESTING EQUIPMENT, CONCRETE	631.16	
	0.33		0.33	LS	TESTING EQUIPMENT, BITUMINOUS	631.17	
	1000		1000	DL	FIELD OFFICE, TELEPHONE (N.A.B.I.)	631.26	
		0.33	0.33	LS	MOBILIZATION/DEMOBILIZATION	635.11	
		1	1	LS	TRAFFIC CONTROL (STP 2909(I))	641.10	
		0.33	0.33	LS	PUBLIC RELATIONS OFFICER	641.12	
		2	2	EA	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		COLD PLANING, BITUMINOUS PAVEMENT
20,824	SY	MAINLINE
3211	SY	SIDEROADS
215	SY	ROUNDING
24,250	SY	TOTAL
		SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
1954	TON	LEVELING COURSE (TYPE IVS)
250	TON	SPOT LEVELING COURSE (TYPE IVS)
21	TON	ROUNDING
2225	TON	TOTAL
		AGGREGATE SHOULDERS
725	TON	SHOULDER BACKUPS
725	TON	TOTAL

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

QUANTITY SHEET #1

PROJECT NAME: CASTLETON

PROJECT NUMBER: STP 2909(I)

FILE NAME: p10c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c212qsl.i

PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 124 OF 152

QUANTITY SHEET 2

STATE OF VERMONT
AGENCY OF TRANSPORTATION

SUMMARY OF ESTIMATED QUANTITIES

NON-PARTICIPATING	FULL C.E.	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
					BEGIN OPTION AA		
		40,000	40,000	LF	DURABLE 4 INCH WHITE LINE, THERMOPLASTIC	646.402	313
		40,000	40,000	LF	DURABLE 4 INCH WHITE LINE, EPOXY PAINT	646.403	313
		40,000	40,000	LF	DURABLE 4 INCH WHITE LINE, POLYUREA	646.404	313
					END OPTION AA		
					BEGIN OPTION BB		
		39,250	39,250	LF	DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC	646.412	290
		39,250	39,250	LF	DURABLE 4 INCH YELLOW LINE, EPOXY PAINT	646.413	290
		39,250	39,250	LF	DURABLE 4 INCH YELLOW LINE, POLYUREA	646.414	290
					END OPTION BB		
					BEGIN OPTION CC		
		1100	1100	LF	DURABLE 6 INCH WHITE LINE, THERMOPLASTIC	646.422	75
		1100	1100	LF	DURABLE 6 INCH WHITE LINE, EPOXY PAINT	646.423	75
		1100	1100	LF	DURABLE 6 INCH WHITE LINE, POLYUREA	646.424	75
					END OPTION CC		
					BEGIN OPTION DD		
		700	700	LF	DURABLE 6 INCH YELLOW LINE, THERMOPLASTIC	646.432	35
		700	700	LF	DURABLE 6 INCH YELLOW LINE, EPOXY PAINT	646.433	35
		700	700	LF	DURABLE 6 INCH YELLOW LINE, POLYUREA	646.434	35
					END OPTION DD		
					BEGIN OPTION EE		
		250	250	LF	DURABLE 8 INCH WHITE LINE, THERMOPLASTIC	646.442	35
		250	250	LF	DURABLE 8 INCH WHITE LINE, EPOXY PAINT	646.443	35
		250	250	LF	DURABLE 8 INCH WHITE LINE, POLYUREA	646.444	35
					END OPTION EE		
					BEGIN OPTION FF		
		500	500	LF	DURABLE 8 INCH YELLOW LINE, THERMOPLASTIC	646.452	18
		500	500	LF	DURABLE 8 INCH YELLOW LINE, EPOXY PAINT	646.453	18
		500	500	LF	DURABLE 8 INCH YELLOW LINE, POLYUREA	646.454	18
					END OPTION FF		
					BEGIN OPTION GG		
		1925	1925	LF	DURABLE 12 INCH WHITE LINE, THERMOPLASTIC	646.462	58
		1925	1925	LF	DURABLE 12 INCH WHITE LINE, EPOXY PAINT	646.463	58
		1925	1925	LF	DURABLE 12 INCH WHITE LINE, POLYUREA	646.464	58
					END OPTION GG		
					BEGIN OPTION HH		
		125	125	LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482	17
		125	125	LF	DURABLE 24 INCH STOP BAR, EPOXY PAINT	646.483	17
		125	125	LF	DURABLE 24 INCH STOP BAR, POLYUREA	646.484	17
					END OPTION HH		
					BEGIN OPTION II		
		53	53	EA	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	
		53	53	EA	DURABLE LETTER OR SYMBOL, EPOXY PAINT	646.493	
					END OPTION II		
		49,750	49,750	LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.602	EST.
		48,750	48,750	LF	TEMPORARY 4 INCH YELLOW LINE, PAINT	646.612	EST.
		2200	2200	LF	TEMPORARY 6 INCH WHITE LINE, PAINT	646.622	EST.
		1400	1400	LF	TEMPORARY 6 INCH YELLOW LINE, PAINT	646.632	EST.
		200	200	LF	TEMPORARY 24 INCH STOP BAR, PAINT	646.682	EST.
		86	86	EA	TEMPORARY LETTER OR SYMBOL, PAINT	646.692	EST.
		3000	3000	EA	LINE STRIPING TARGETS	646.76	EST.
		700	700	SF	PAINTED CURB	646.81	30
		75	75	SY	GEOTEXTILE UNDER STONE FILL	649.31	EST.

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

QUANTITY SHEET #2

PROJECT NAME: CASTLETON

PROJECT NUMBER: STP 2909(I)

FILE NAME: p10c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c212qs2.i

PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 125 OF 152

QUANTITY SHEET 3

STATE OF VERMONT
AGENCY OF TRANSPORTATION

SUMMARY OF ESTIMATED QUANTITIES

NON-PARTICIPATING	FULL C.E.	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
		125	125	LB	SEED	651.15	
		400	400	LB	FERTILIZER	651.18	EST.
		1	1	TON	AGRICULTURAL LIMESTONE	651.20	EST.
		1	1	TON	HAY MULCH	651.25	EST.
		50	50	CY	TOPSOIL	651.35	EST.
		4500	4500	SY	TEMPORARY EROSION MATTING	653.20	40
		46	46	SF	TRAFFIC SIGNS, TYPE A	675.20	0.56
		225	225	LF	SQUARE TUBE SIGN POSTS AND ANCHOR	675.341	15
		9	9	EA	REMOVING SIGNS	675.50	
		3	3	EA	ERECTING SALVAGED SIGNS	675.60	
		8	8	EA	DELINEATOR WITH STEEL POST	676.10	
		1	1	LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	
	0.33		0.33	LS	SPECIAL PROVISION (INTELLIGENT COMPACTION EQUIPMENT)	900.645	
		2000	2000	SY	SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)	900.675	51
		14	14	TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE II)	900.680	EST.
		6200	6200	~~SY~~ TON	SPECIAL PROVISION (WARM-MIX ASPHALT, ORGANIC WAX ADDITIVE)	900.680	21
		300	300	CWT	SPECIAL PROVISION (EMULSIFIED ASPHALT)(RS-1H OR CRS-1H)	900.683	14

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		SEED
75	TON	DITCH CLEANING
50	TON	REST OF PROJECT
125	TON	TOTAL
		SPECIAL PROVISION (WARM-MIX ASPHALT, ORGANIC WAX ADDITIVE)
5862	TON	WEARING COURSE (TYPE IVS)
307	TON	SIDE ROADS
10	TON	PULLOUTS
21	TON	ROUNDING
6200	TON	TOTAL

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

QUANTITY SHEET #3

PROJECT NAME: CASTLETON

PROJECT NUMBER: STP 2909(I)

FILE NAME: p10c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c212qs3.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 126 OF 152

ITEM DETAIL SUMMARY SHEET

LOCATION			GUARDRAIL (GALVANIZED)				MISCELLANEOUS					REMARKS
			621.20	621.205	621.60	621.80	604.412	604.415	604.418	651.15	676.10	
BEGIN STATION	END STATION	POS.	S.B. GR GAL.	S.B. GR GAL. W/ 8 FT POST	ANCHOR FOR S.B. RAIL	REMOVAL & DISPOSAL OF GUARDRAIL	REHABING DI'S, CB'S OR MH'S			SEED	DELINEATOR WITH STEEL POST	
			LF	LF	EA	LF	EA	EA	EA	LB	EA	
CASTLETON:												
80+78.4	274+03.2	LT/RT					~~2~~	1	1	50		SHALL BE PERFORMED AS DIRECTED BY RESIDENT ENGINEER
162+62.0	272+98.0	RT								75		SEE SHEET 128 FOR DITCH CLEANING DETAILS SHEET.
196+28.8	197+19.7	RT	91.5		2	77.0					2	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHORS AT STA 196+34.7 AND STA 197+13.2.
196+34.4	197+25.9	LT	91.5		2	77.0					2	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHORS AT STA 196+40.9 AND STA 197+19.4.
257+97.0	265+17.5	LT		821.5	2	706.0					2	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHORS AT STA 258+03.5 AND STA 265+11.5. SHEET 10 FOR STEEL BEAM GUARDRAIL POST SPACING FOR UTILITY POLE WITHIN 4'-0" OF GUARDRAIL DETAIL.
268+90.0	274+19.0	LT		549.0	2	524.0					2	SEE VAOT STANDARD SHEET G-ID FOR DETAILS. PROVIDE ANCHORS AT STA 268+96.5 AND STA 274+12.5. SHEET 10 FOR STEEL BEAM GUARDRAIL POST SPACING FOR UTILITY POLE WITHIN 4'-0" OF GUARDRAIL DETAIL.
211+82		RT					1					
216+86		RT					1					
214+89		RT					1					
SHEET SUBTOTALS:			183.0	1370.5	8	1384.0	~~2~~ 3	1	1	125	8	
ROUNDING:			17.0	29.5	-	16.0	-	-	-	-	-	
TOTALS:			200	1400	8	1400	~~2~~ 3	1	1	125	8	

ITEM DETAIL SUMMARY SHEET

PROJECT NAME: CASTLETON

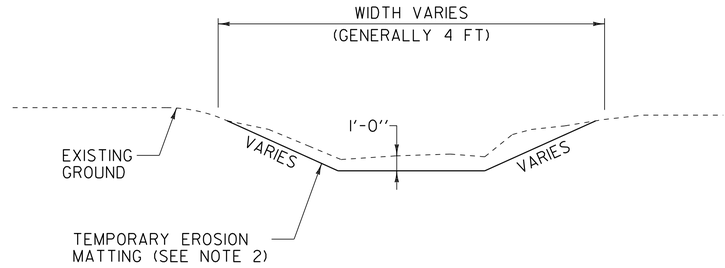
PROJECT NUMBER: STP 2909(I)

FILE NAME: pI0c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pI0c212ids.i

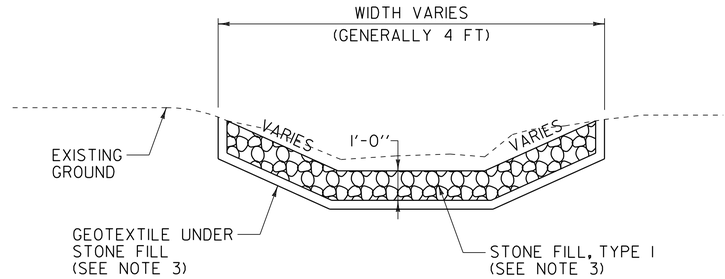
PLOT DATE: 04-JUN-2013 09:I
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 127 OF 152

LOCATION				FEET OF DITCHING				MISC. ITEMS				REMARKS
								613.10	649.31	651.15	653.20	
SITE	STATION	STATION	POS.	PERCENT GRADE				STONE FILL, TYPE I	GEOT. UNDER STONE FILL	SEED	TEMP. EROS. MATT.	
				0-1	1-2.5	2.5-10	>10					
VT. ROUTE 30								CY	SY	LB	SY	
CASTLETON:												
1	162+62	194+83	RT		3221					24	1432	
2	196+42	201+17	RT		475					4	211	
3	203+28	242+88	RT		3960					29	1760	
4	243+94	253+44	RT		950					7	422	
5	255+55	265+06	RT		951					7	423	
6	268+22	272+98	RT		476					4	212	
ROUNDINGS					67					-	40	
TOTALS					10,100					75	4500	

LOCATION				FEET OF DITCHING				MISC. ITEMS				REMARKS
								613.10	649.31	651.15	653.20	
SITE	STATION	STATION	POS.	PERCENT GRADE				STONE FILL, TYPE I	GEOT. UNDER STONE FILL	SEED	TEMP. EROS. MATT.	
				0-1	1-2.5	2.5-10	>10					
								CY	SY	LB	SY	



DITCH DETAIL



STONE DITCH DETAIL

NOTES:

1. PIPE INLET AND OUTLET AREAS AND DITCH CLEANING THROUGHOUT THE PROJECT SHALL BE PERFORMED AT LOCATIONS IDENTIFIED ON THIS SHEET AND AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT WILL BE UNDER THE APPLICABLE EQUIPMENT RENTAL ITEM(S).

2. ESTIMATED QUANTITIES OF TEMPORARY EROSION MATTING AND SEED HAVE BEEN INCLUDED AS NEEDED OR AS DIRECTED BY THE RESIDENT ENGINEER.

3. ESTIMATED QUANTITIES OF STONE FILL TYPE I AND GEOTEXTILE UNDER STONE FILL HAVE BEEN INCLUDED AS NEEDED. STONE FILL TYPE I SHALL BE USED IN ALL DITCHES WITH A GRADE BETWEEN 2.5 AND 10 PERCENT OR AS DIRECTED BY THE RESIDENT ENGINEER.

4. GRADES LESS THAN 1PERCENT SHALL USE ITEM 651.15, SEED AND ITEM 651.25, HAY MULCH. GRADES BETWEEN 1 AND 2.5 PERCENT SHALL USE ITEM 651.25, HAY MULCH OR ITEM 653.20, TEMPORARY EROSION MATTING AS DIRECTED BY THE RESIDENT ENGINEER. GRADES OVER 2.5 PERCENT SHALL USE ITEM 649.31, GEOTEXTILE UNDER STONE FILL AND ITEM 613.10, STONE FILL TYPE I AS DIRECTED BY THE RESIDENT ENGINEER.

NOT TO SCALE

DITCH CLEANING DETAILS SHEET

PROJECT NAME: CASTLETON

PROJECT NUMBER: STP 2909(I)

FILE NAME: pl0c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p07cl68cdc.i

PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 128 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 80+78.40 - STA 86+50.00 EDGE LINE LT & RT
STA 80+78.40 - STA 81+40.00 SOLID LANE LINE LT
STA 81+40.00 - STA 83+20.00 DOTTED LANE LINE LT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 80+78.40 - STA 86+50.00	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 80+78.40 - STA 86+50.00 EDGE LINE LT & RT
STA 80+78.40 - STA 81+40.00 SOLID LANE LINE LT
STA 81+40.00 - STA 83+20.00 DOTTED LANE LINE LT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 80+78.40 - STA 86+50.00	S	-	S

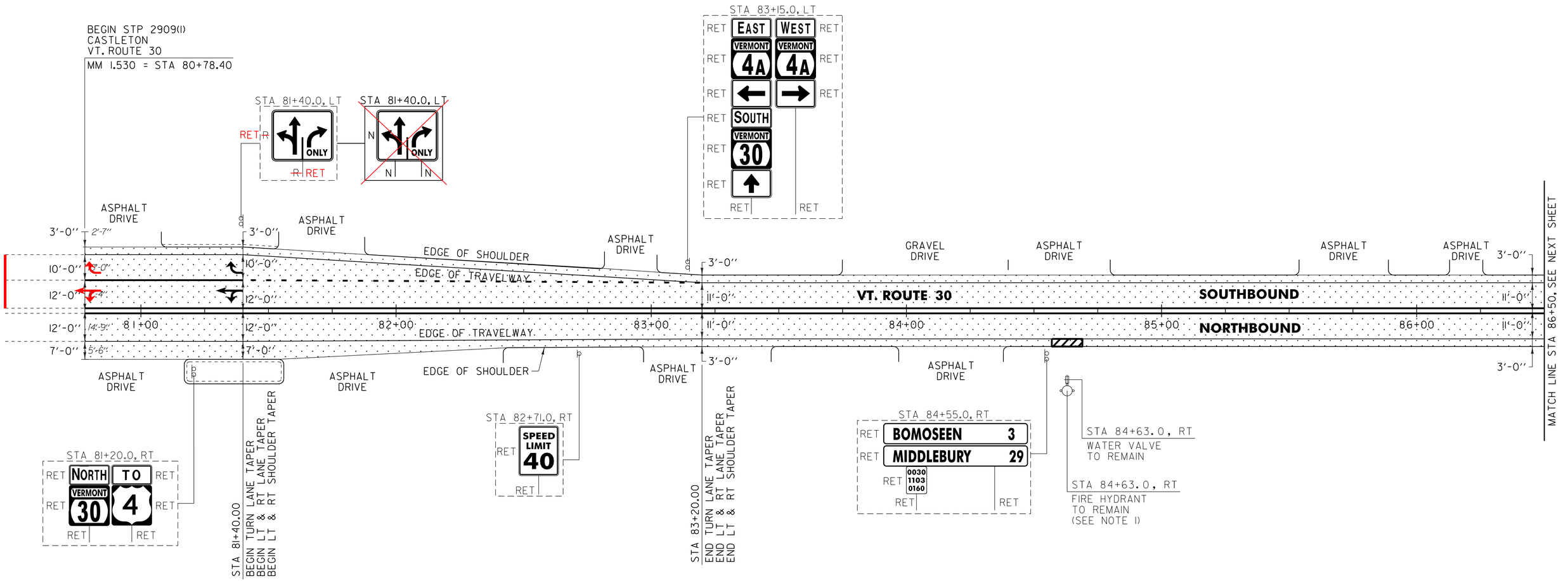
646.442 DURABLE 8 INCH WHITE LINE, THERMOPLASTIC OR
646.443 DURABLE 8 INCH WHITE LINE, EPOXY PAINT OR
646.444 DURABLE 8 INCH WHITE LINE, POLYUREA
CASTLETON:
STA 84+57.0 - STA 84+69.0 FIRE HYDRANT NO PARKING ZONE RT

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC OR
646.493 DURABLE LETTER OR SYMBOL, EPOXY PAINT
CASTLETON:
STA 81+33.50 LT ARROWS (2 EA)
STA 81+35.75 LT ARROW (1 EA)
STA 80+80.0 LT ARROWS (3 EA)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
CASTLETON:
STA 81+33.50 LT ARROWS (4 EA)
STA 81+35.75 LT ARROW (2 EA)

646.482 DURABLE 24 IN STOP BAR, THERMOPLASTIC
CASTLETON:
STA 80+70 LT, VT 30 @ VT 4A INTERSECTION

675.50 REMOVING SIGNS
AS SHOWN - + 0



NOTE:

1. SEE SHEET 8 FOR FIRE HYDRANT PAVEMENT MARKING DETAIL.

AREA TO BE COLD PLANED

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ————

NOT TO SCALE

PROJECT LAYOUT SHEET #1

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: pl0c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c212101.i
PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 129 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 86+50.00 - STA 92+50.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 86+50.00 - STA 92+50.00	S	-	S

STA 88+07.04 DOUBLE SOLID LT, TH-71

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 86+50.00 - STA 92+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 86+50.00 - STA 92+50.00	S	-	S

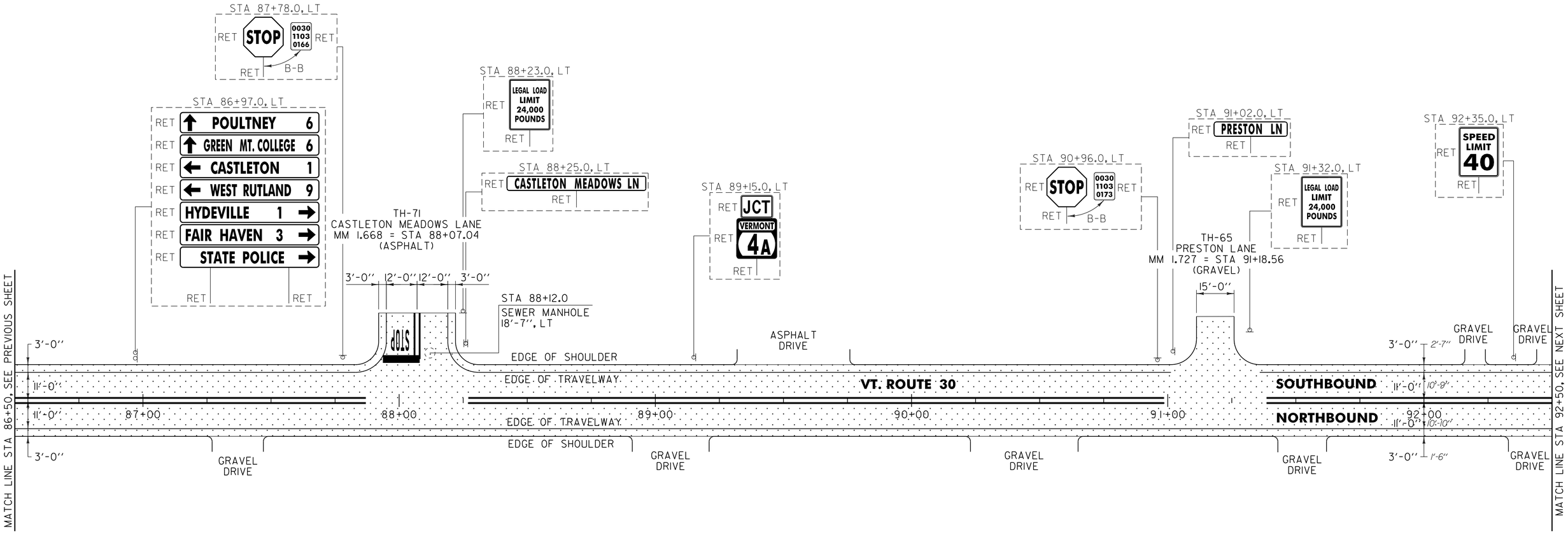
STA 88+07.04 DOUBLE SOLID LT, TH-71

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC OR
646.493 DURABLE LETTER OR SYMBOL, EPOXY PAINT
CASTLETON:
STA 88+07.04 LT, TH-71 "S,T,O,P" (4 EA)

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC OR
646.483 DURABLE 24 INCH STOP BAR, EPOXY PAINT OR
646.484 DURABLE 24 INCH STOP BAR, POLYUREA
CASTLETON:
STA 88+07.04 LT, TH-71

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
CASTLETON:
STA 88+07.04 LT, TH-71, "S,T,O,P" (8 EA)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
CASTLETON:
STA 88+07.04 LT, TH-71



NOTE:

1. PAVING LIMIT ON ALL TOWN HIGHWAYS SHALL BE MEASURED 25 FT BACK FROM VT. ROUTE 30 EDGE OF SHOULDER UNLESS DENOTED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.

604.42 CHANGING ELEVATION OF SEWER MANHOLES
STA 88+12.0 LT

AREA TO BE COLD PLANED

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———

NOT TO SCALE

PROJECT LAYOUT SHEET #2

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: p10c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c212102.i
PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 130 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 92+50.00 - STA 98+50.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

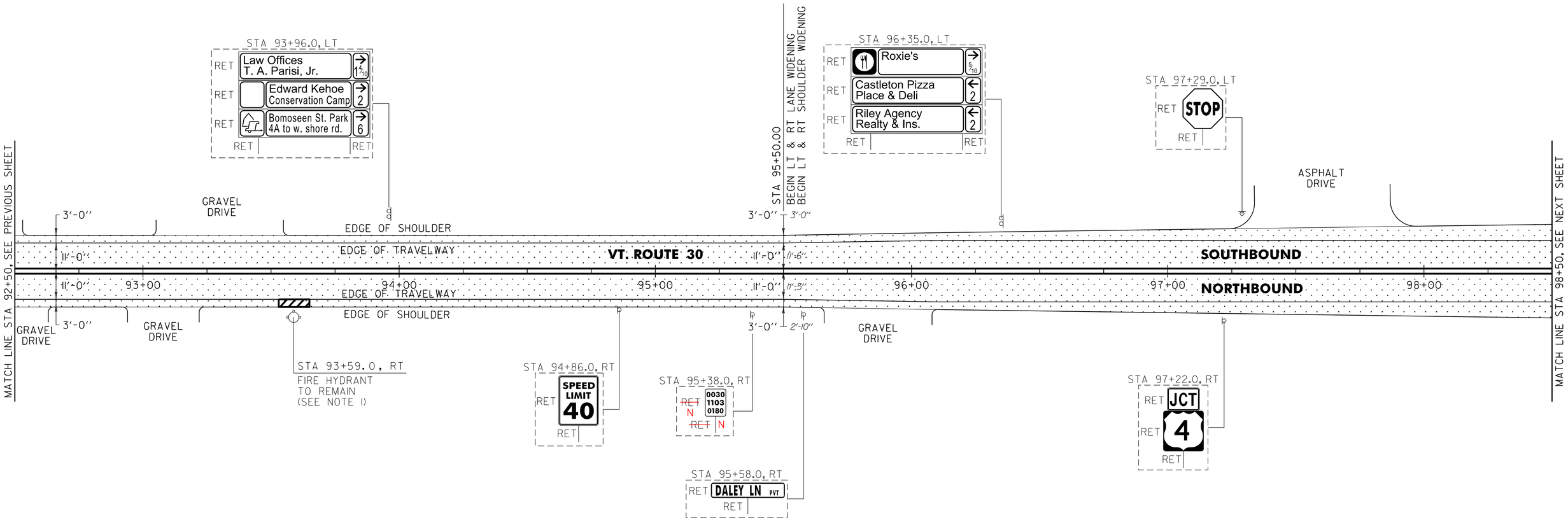
	LT	℄	RT
STA 92+50.00 - STA 98+50.00	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 92+50.00 - STA 98+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 92+50.00 - STA 98+50.00	S	-	S

646.442 DURABLE 8 INCH WHITE LINE, THERMOPLASTIC OR
646.443 DURABLE 8 INCH WHITE LINE, EPOXY PAINT OR
646.444 DURABLE 8 INCH WHITE LINE, POLYUREA
CASTLETON:
STA 93+53.0 - STA 93+65.0 FIRE HYDRANT NO PARKING ZONE RT



NOTE:

1. SEE SHEET 8 FOR FIRE HYDRANT PAVEMENT MARKING DETAIL.

AREA TO BE COLD PLANED

SIGN LEGEND

R	= REMOVE
S	= SALVAGE
N	= NEW
RET	= RETAIN
B-B	= BACK TO BACK
EXISTING	= - - - - - - -
NEW	= ————

NOT TO SCALE

PROJECT LAYOUT SHEET #3

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: pl0c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c212103.i
PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 131 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EXPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 98+50.00 - STA 102+50.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EXPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 98+50.00 - STA 100+50.00	S	-	S
STA 100+50.00 - STA 102+00.00	DOUBLE SOLID MEDIAN		LT
STA 100+50.00 - STA 102+50.00	DOUBLE SOLID MEDIAN		RT
STA 102+00.00 - STA 102+50.00	MEDIAN EDGE LINE		LT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 98+50.00 - STA 102+50.00 EDGE LINE LT & RT

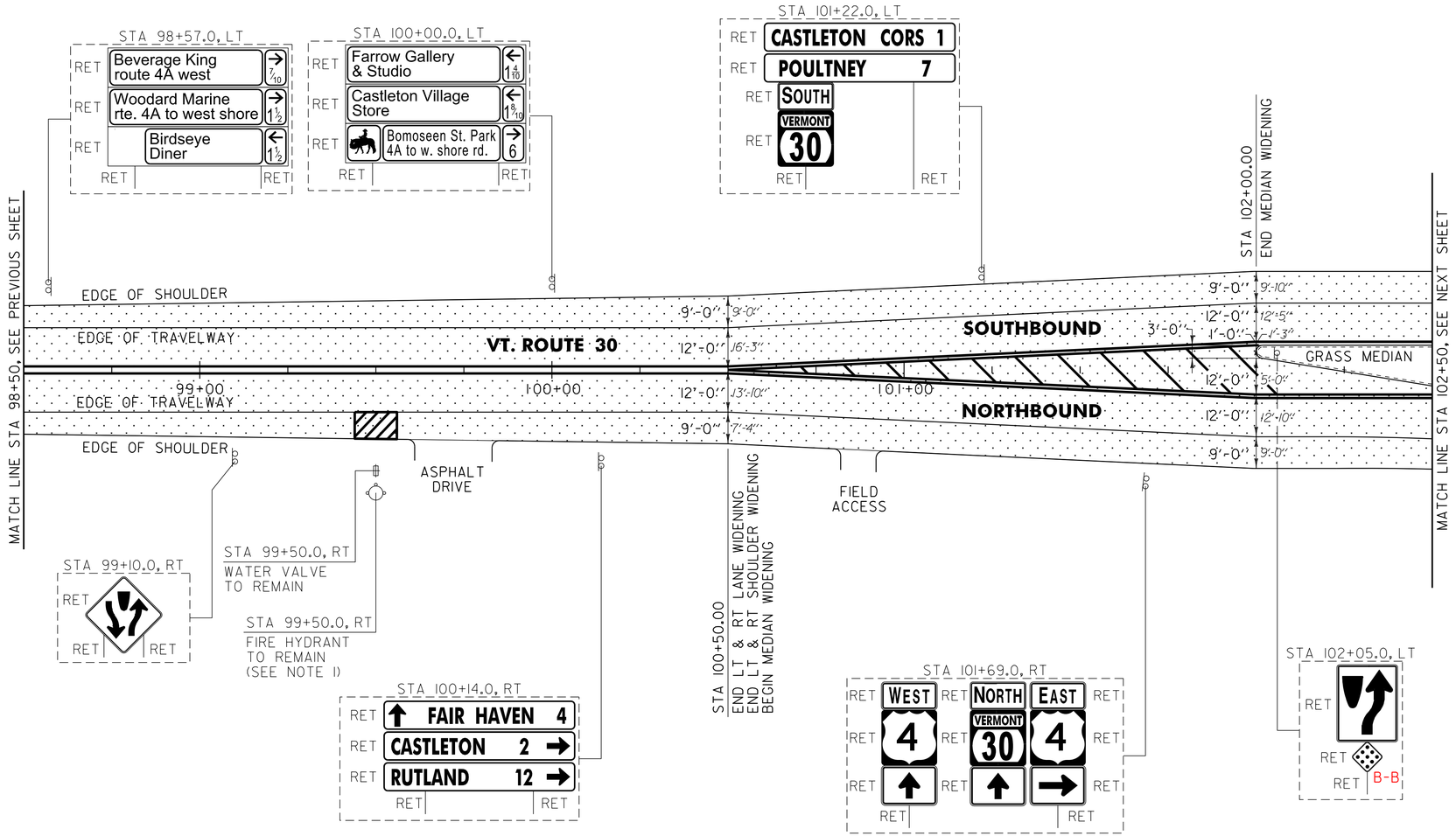
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 98+50.00 - STA 100+50.00	S	-	S
STA 100+50.00 - STA 102+00.00	DOUBLE SOLID MEDIAN		LT
STA 100+50.00 - STA 102+50.00	DOUBLE SOLID MEDIAN		RT
STA 102+00.00 - STA 102+50.00	MEDIAN EDGE LINE		LT

646.442 DURABLE 8 INCH WHITE LINE, THERMOPLASTIC OR
646.443 DURABLE 8 INCH WHITE LINE, EPOXY PAINT OR
646.444 DURABLE 8 INCH WHITE LINE, POLYUREA
CASTLETON:
STA 99+44.0 - STA 99+56.0 FIRE HYDRANT NO PARKING ZONE RT

646.452 DURABLE 8 INCH YELLOW LINE, THERMOPLASTIC OR
646.453 DURABLE 8 INCH YELLOW LINE, EPOXY PAINT OR
646.454 DURABLE 8 INCH YELLOW LINE, POLYUREA
CASTLETON:
STA 100+50.00 - STA 102+00.00 MEDIAN HATCHING LT & RT

646.81 PAINTED CURB
CASTLETON:
STA 102+00.0 - STA 102+30.0 LT (30.0 LF)
STA 102+00.0 - STA 102+50.0 RT (50.0 LF)



NOTE:

1. SEE SHEET 8 FOR FIRE HYDRANT PAVEMENT MARKING DETAIL.

AREA TO BE COLD PLANED

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ———

NOT TO SCALE

PROJECT LAYOUT SHEET #4

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: p10c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c212104.i
PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 132 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EXPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 102+50.00 - STA 107+50.00 EDGE LINE LT & RT
STA 105+90.00 - STA 107+50.00 SOLID LANE LINE LT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EXPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:
STA 102+50.00 - STA 102+65.00 DOUBLE SOLID MEDIAN RT
STA 102+50.00 - STA 105+15.00 MEDIAN EDGE LINE LT
STA 102+65.00 - STA 105+15.00 MEDIAN EDGE LINE RT
STA 106+20.00 - STA 107+50.00 MEDIAN EDGE LINE LT & RT

646.422 DURABLE 6 INCH WHITE LINE, THERMOPLASTIC OR
646.423 DURABLE 6 INCH WHITE LINE, EXPOXY PAINT OR
646.424 DURABLE 6 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 104+12.16 RAMP P EDGE LINE RT
STA 104+12.16 RAMP P MEDIAN EDGE LINE RT
STA 105+23.04 RAMP N EDGE LINE LT

646.432 DURABLE 6 INCH YELLOW LINE, THERMOPLASTIC OR
646.433 DURABLE 6 INCH YELLOW LINE, EXPOXY PAINT OR
646.434 DURABLE 6 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:
STA 104+12.16 RAMP P MEDIAN EDGE LINE RT
STA 104+12.16 RAMP P EDGE LINE RT
STA 105+23.04 RAMP N EDGE LINE LT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 102+50.00 - STA 107+50.00 EDGE LINE LT & RT
STA 104+12.16 RAMP P EDGE LINE RT
STA 104+12.16 RAMP P MEDIAN EDGE LINE RT
STA 105+23.04 RAMP N EDGE LINE LT
STA 105+90.00 - STA 107+50.00 SOLID LANE LINE LT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:
STA 102+50.00 - STA 102+65.00 DOUBLE SOLID MEDIAN RT
STA 102+50.00 - STA 105+15.00 MEDIAN EDGE LINE LT
STA 102+65.00 - STA 105+15.00 MEDIAN EDGE LINE RT
STA 104+12.16 RAMP P MEDIAN EDGE LINE RT
STA 104+12.16 RAMP P EDGE LINE RT
STA 105+23.04 RAMP N EDGE LINE LT
STA 106+20.00 - STA 107+50.00 MEDIAN EDGE LINE LT & RT

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 104+12.16 RAMP P EDGE LINE RT
STA 104+12.16 RAMP P MEDIAN EDGE LINE RT
STA 105+23.04 RAMP N EDGE LINE LT

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:
STA 104+12.16 RAMP P MEDIAN EDGE LINE RT
STA 104+12.16 RAMP P EDGE LINE RT
STA 105+23.04 RAMP N EDGE LINE LT

646.462 DURABLE 12 INCH WHITE LINE, THERMOPLASTIC OR
646.463 DURABLE 12 INCH WHITE LINE, EPOXY PAINT OR
646.464 DURABLE 12 INCH WHITE LINE, POLYUREA
CASTLETON:
STA 103+75.00 - STA 105+55.00 GORE AREA RT
STA 104+12.16 RAMP P GORE AREA RT
STA 104+80.00 - STA 105+15.00 HATCHED AREA LT

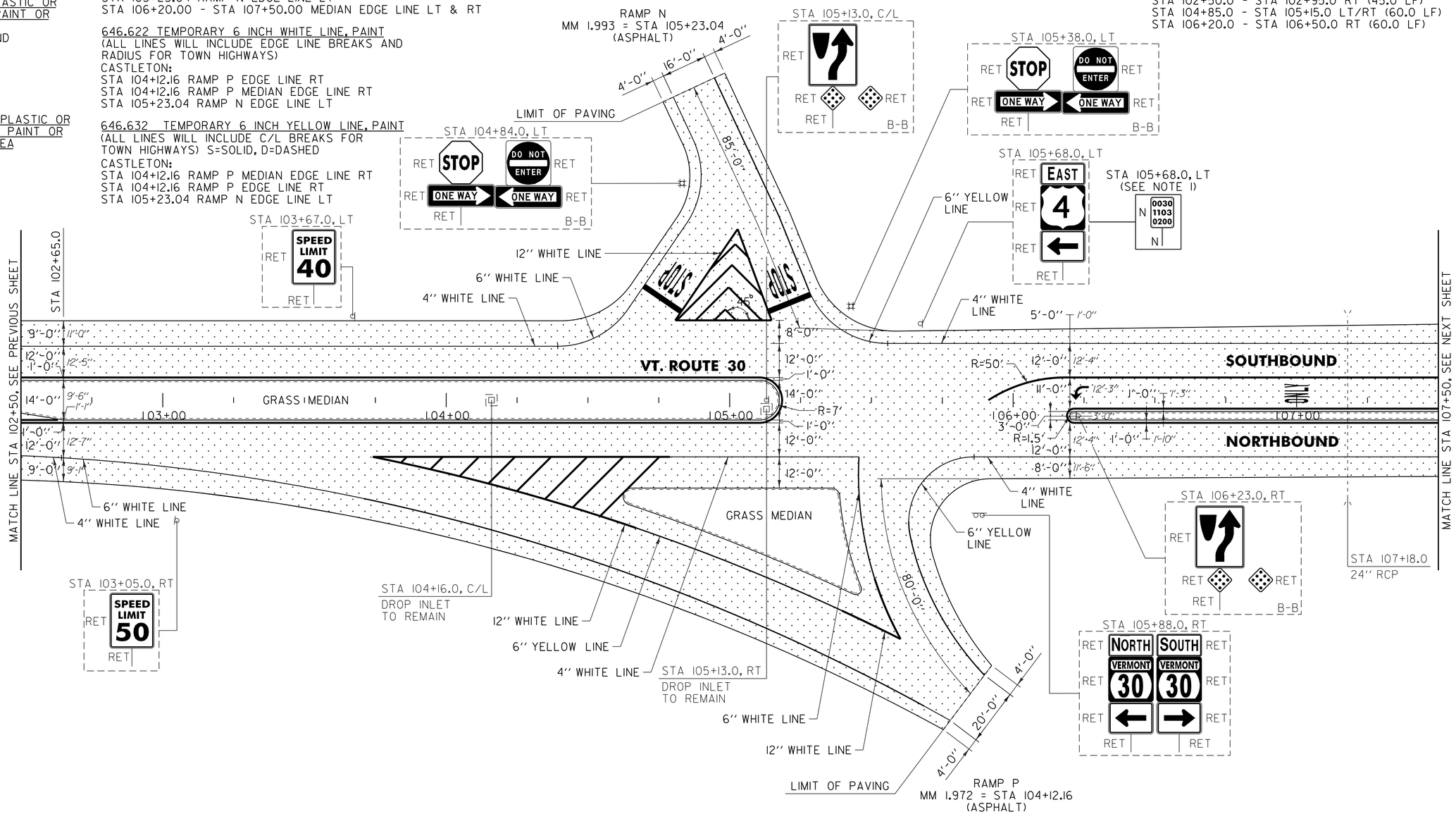
646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC OR
646.493 DURABLE LETTER OR SYMBOL, EPOXY PAINT
CASTLETON:
STA 105+23.04 LT, RAMP N, "S,T,O,P" (4 EA)
STA 105+23.04 LT, RAMP N, "S,T,O,P" (4 EA)
STA 106+24.25 LT ARROW (1 EA)
STA 106+98.40 LT "O,N,L,Y" (4 EA)

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC OR
646.483 DURABLE 24 INCH STOP BAR, EPOXY PAINT OR
646.484 DURABLE 24 INCH STOP BAR, POLYUREA
CASTLETON:
STA 105+23.04 LT, RAMP N
STA 105+23.04 LT, RAMP N

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
CASTLETON:
STA 105+23.04 LT, RAMP N
STA 105+23.04 LT, RAMP N

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
CASTLETON:
STA 105+23.04 LT, RAMP N, "S,T,O,P" (8 EA)
STA 105+23.04 LT, RAMP N, "S,T,O,P" (8 EA)
STA 106+24.25 LT ARROW (2 EA)

646.81 PAINTED CURB
CASTLETON:
STA 102+50.0 - STA 102+95.0 RT (45.0 LF)
STA 104+85.0 - STA 105+15.0 LT/RT (60.0 LF)
STA 106+20.0 - STA 106+50.0 RT (60.0 LF)



NOT TO SCALE

NOTE:

1. THIS NEW MILE MARKER SIGN IS TO BE INSTALLED ON THE EXISTING SIGN POST.

AREA TO BE COLD PLANED

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ———

PROJECT LAYOUT SHEET #5

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: p10c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c212105.i

PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 133 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EXPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 107+50.00 - STA 112+50.00 EDGE LINE LT & RT
STA 107+50.00 - STA 109+25.00 SOLID LANE LINE LT
STA 109+25.00 - STA 111+35.00 DOTTED LANE LINE LT
STA 109+25.00 - STA 111+35.00 DOTTED LANE LINE RT
STA 111+35.00 - STA 112+50.00 SOLID LANE LINE RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EXPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:
STA 107+50.00 - STA 112+50.00 MEDIAN EDGE LINE LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 107+50.00 - STA 112+50.00 EDGE LINE LT & RT
STA 107+50.00 - STA 109+25.00 SOLID LANE LINE LT
STA 109+25.00 - STA 111+35.00 DOTTED LANE LINE LT
STA 109+25.00 - STA 111+35.00 DOTTED LANE LINE RT
STA 111+35.00 - STA 112+50.00 SOLID LANE LINE RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:
STA 107+50.00 - STA 112+50.00 MEDIAN EDGE LINE LT & RT

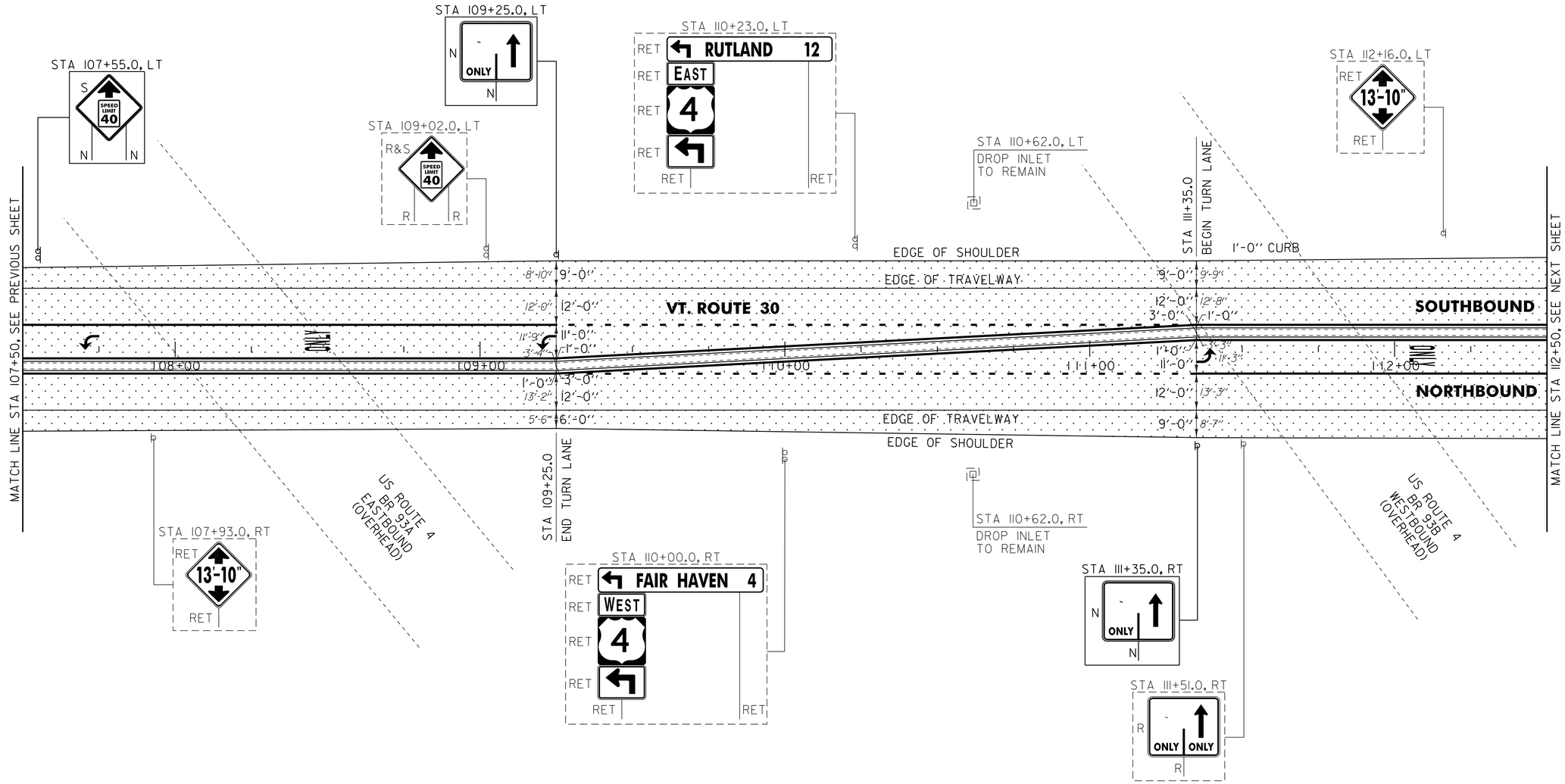
646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC OR
646.493 DURABLE LETTER OR SYMBOL, EPOXY PAINT
CASTLETON:
STA 107+72.55 LT ARROW (1 EA)
STA 108+46.70 LT "O,N,L,Y" (4 EA)
STA 109+20.84 LT ARROW (1 EA)
STA 111+39.25 RT ARROW (1 EA)
STA 112+14.63 RT "O,N,L,Y" (4 EA)

646.81 PAINTED CURB
CASTLETON:
STA 108+95.0 - STA 109+55.0 RT (120.0 LF)
STA 111+05.0 - STA 111+65.0 LT (120.0 LF)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
CASTLETON:
STA 107+72.55 LT ARROW (2 EA)
STA 109+20.84 LT ARROW (2 EA)
STA 111+39.25 RT ARROW (2 EA)

675.50 REMOVING SIGNS
AS SHOWN - 2

675.60 ERECTING SALVAGED SIGNS
AS SHOWN - 1



AREA TO BE COLD PLANED

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ———

NOTE:

1. VERTICAL CLEARANCE TO US ROUTE 4 OVERPASSES SHALL NOT BE REDUCED

NOT TO SCALE

PROJECT LAYOUT SHEET #6

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: p10c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c212106.i
PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 134 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EXPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 112+50.00 - STA 118+00.00 EDGE LINE LT & RT
STA 112+50.00 - STA 114+75.00 SOLID LANE LINE RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EXPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:
STA 112+50.00 - STA 114+45.00 MEDIAN EDGE LINE LT
STA 115+55.00 - STA 118+00.00 MEDIAN EDGE LINE LT & RT

646.422 DURABLE 6 INCH WHITE LINE, THERMOPLASTIC OR
646.423 DURABLE 6 INCH WHITE LINE, EXPOXY PAINT OR
646.424 DURABLE 6 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 115+26.24 RAMP Q EDGE LINE RT
STA 116+21.28 RAMP R EDGE LINE LT
STA 116+21.28 RAMP R MEDIAN EDGE LINE LT

646.432 DURABLE 6 INCH YELLOW LINE, THERMOPLASTIC OR
646.433 DURABLE 6 INCH YELLOW LINE, EXPOXY PAINT OR
646.434 DURABLE 6 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:
STA 115+26.24 RAMP Q EDGE LINE RT
STA 116+21.28 RAMP R EDGE LINE LT
STA 116+21.28 RAMP R MEDIAN EDGE LINE LT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 112+50.00 - STA 118+00.00 EDGE LINE LT & RT
STA 112+50.00 - STA 114+75.00 SOLID LANE LINE RT
STA 115+26.24 RAMP Q EDGE LINE RT
STA 116+21.28 RAMP R EDGE LINE LT
STA 116+21.28 RAMP R MEDIAN EDGE LINE LT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:
STA 112+50.00 - STA 114+45.00 MEDIAN EDGE LINE LT
STA 115+55.00 - STA 118+00.00 MEDIAN EDGE LINE LT & RT
STA 115+26.24 RAMP Q EDGE LINE RT
STA 116+21.28 RAMP R EDGE LINE LT
STA 116+21.28 RAMP R MEDIAN EDGE LINE LT

646.622 TEMPORARY 6 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 115+26.24 RAMP Q EDGE LINE RT
STA 116+21.28 RAMP R EDGE LINE LT
STA 116+21.28 RAMP R MEDIAN EDGE LINE LT

646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:
STA 115+26.24 RAMP Q EDGE LINE RT
STA 116+21.28 RAMP R EDGE LINE LT
STA 116+21.28 RAMP R MEDIAN EDGE LINE LT

646.462 DURABLE 12 INCH WHITE LINE, THERMOPLASTIC OR
646.463 DURABLE 12 INCH WHITE LINE, EPOXY PAINT OR
646.464 DURABLE 12 INCH WHITE LINE, POLYUREA
CASTLETON:
STA 115+00.00 - STA 116+68.00 GORE AREA LT
STA 115+35.00 - STA 116+08.00 HATCHED AREA RT
STA 116+21.28 RAMP R GORE AREA LT

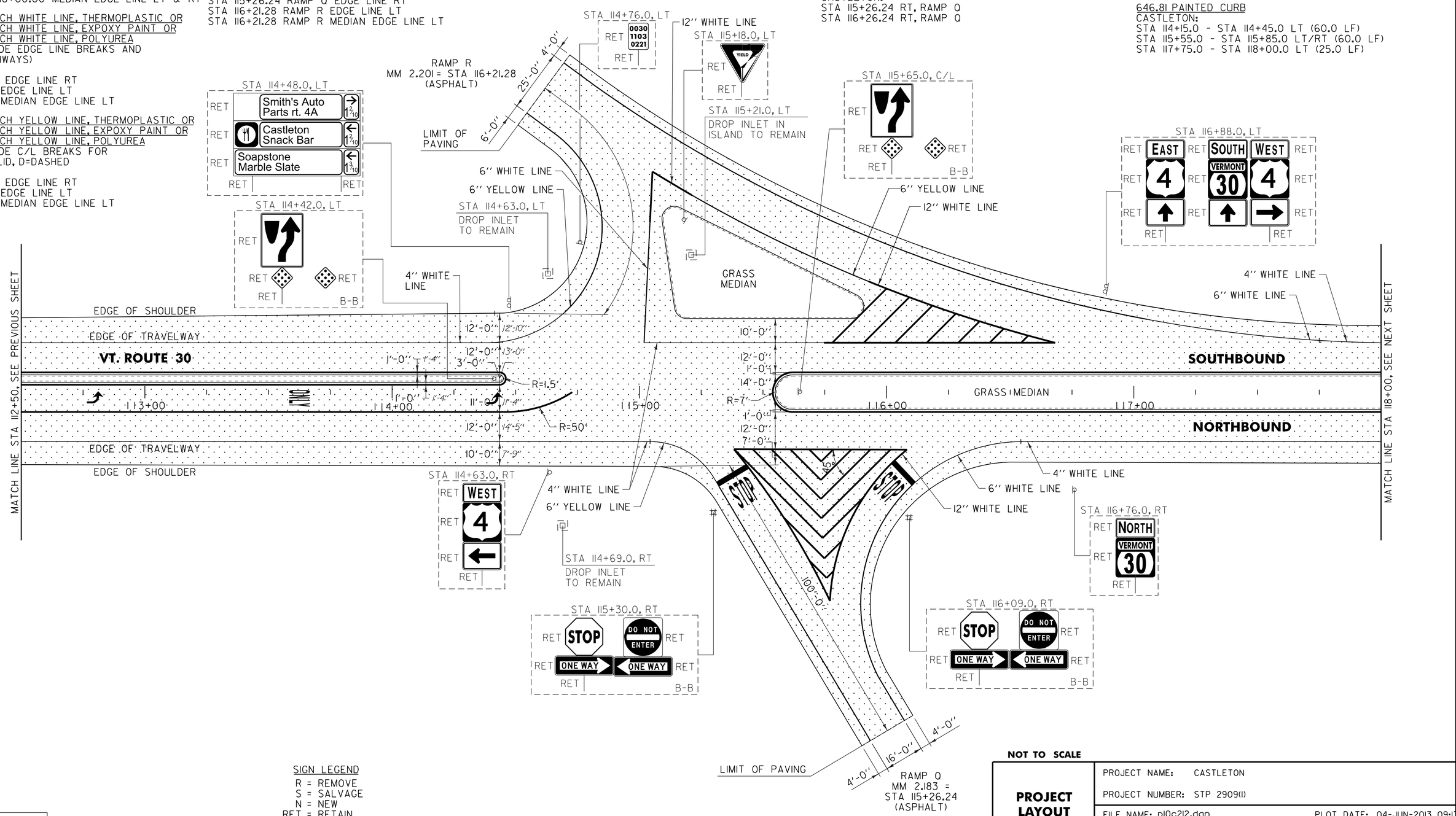
646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC OR
646.483 DURABLE 24 INCH STOP BAR, EPOXY PAINT OR
646.484 DURABLE 24 INCH STOP BAR, POLYUREA
CASTLETON:
STA 115+26.24 RT, RAMP Q
STA 115+26.24 RT, RAMP Q

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
CASTLETON:
STA 115+26.24 RT, RAMP Q
STA 116+26.24 RT, RAMP Q

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC OR
646.493 DURABLE LETTER OR SYMBOL, EPOXY PAINT
CASTLETON:
STA 112+90.00 RT ARROW (1EA)
STA 113+65.38 RT "O,N,L,Y" (4 EA)
STA 114+40.75 RT ARROW (1EA)
STA 115+26.24 RT, RAMP Q, "S,T,O,P" (4 EA)
STA 115+26.24 RT, RAMP Q, "S,T,O,P" (4 EA)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
CASTLETON:
STA 112+90.00 RT ARROW (2 EA)
STA 114+40.75 RT ARROW (2 EA)
STA 115+26.24 RT, RAMP Q, "S,T,O,P" (8 EA)
STA 115+26.24 RT, RAMP Q, "S,T,O,P" (8 EA)

646.81 PAINTED CURB
CASTLETON:
STA 114+15.0 - STA 114+45.0 LT (60.0 LF)
STA 115+55.0 - STA 115+85.0 LT/RT (60.0 LF)
STA 117+75.0 - STA 118+00.0 LT (25.0 LF)



AREA TO BE COLD PLANED

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———————

NOT TO SCALE

PROJECT LAYOUT SHEET #7

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: pl0c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c212107.i
PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 135 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EXPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 118+00.00 - STA 123+50.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EXPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 120+50.00 - STA 123+50.00	S	-	S

STA 118+00.00 - STA 118+70.00 MEDIAN EDGE LINE RT
STA 118+00.00 - STA 118+05.00 MEDIAN EDGE LINE LT
STA 118+05.00 - STA 118+70.00 DOUBLE SOLID MEDIAN LT
STA 118+70.00 - STA 120+50.00 DOUBLE SOLID MEDIAN LT & RT
STA 122+65.44 DOUBLE SOLID LT, TH-68

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 118+00.00 - STA 123+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 120+50.00 - STA 123+50.00	S	-	S

STA 118+00.00 - STA 118+70.00 MEDIAN EDGE LINE RT
STA 118+00.00 - STA 118+05.00 MEDIAN EDGE LINE LT
STA 118+05.00 - STA 118+70.00 DOUBLE SOLID MEDIAN LT
STA 118+70.00 - STA 120+50.00 DOUBLE SOLID MEDIAN LT & RT
STA 122+65.44 DOUBLE SOLID LT, TH-68

646.442 DURABLE 8 INCH WHITE LINE, THERMOPLASTIC OR
646.443 DURABLE 8 INCH WHITE LINE, EPOXY PAINT OR
646.444 DURABLE 8 INCH WHITE LINE, POLYUREA
CASTLETON:
STA 119+76.0 - STA 119+88.0 FIRE HYDRANT NO PARKING ZONE RT

646.452 DURABLE 8 INCH YELLOW LINE, THERMOPLASTIC OR
646.453 DURABLE 8 INCH YELLOW LINE, EPOXY PAINT OR
646.454 DURABLE 8 INCH YELLOW LINE, POLYUREA
CASTLETON:
STA 118+70.00 - STA 120+50.00 MEDIAN HATCHING LT & RT

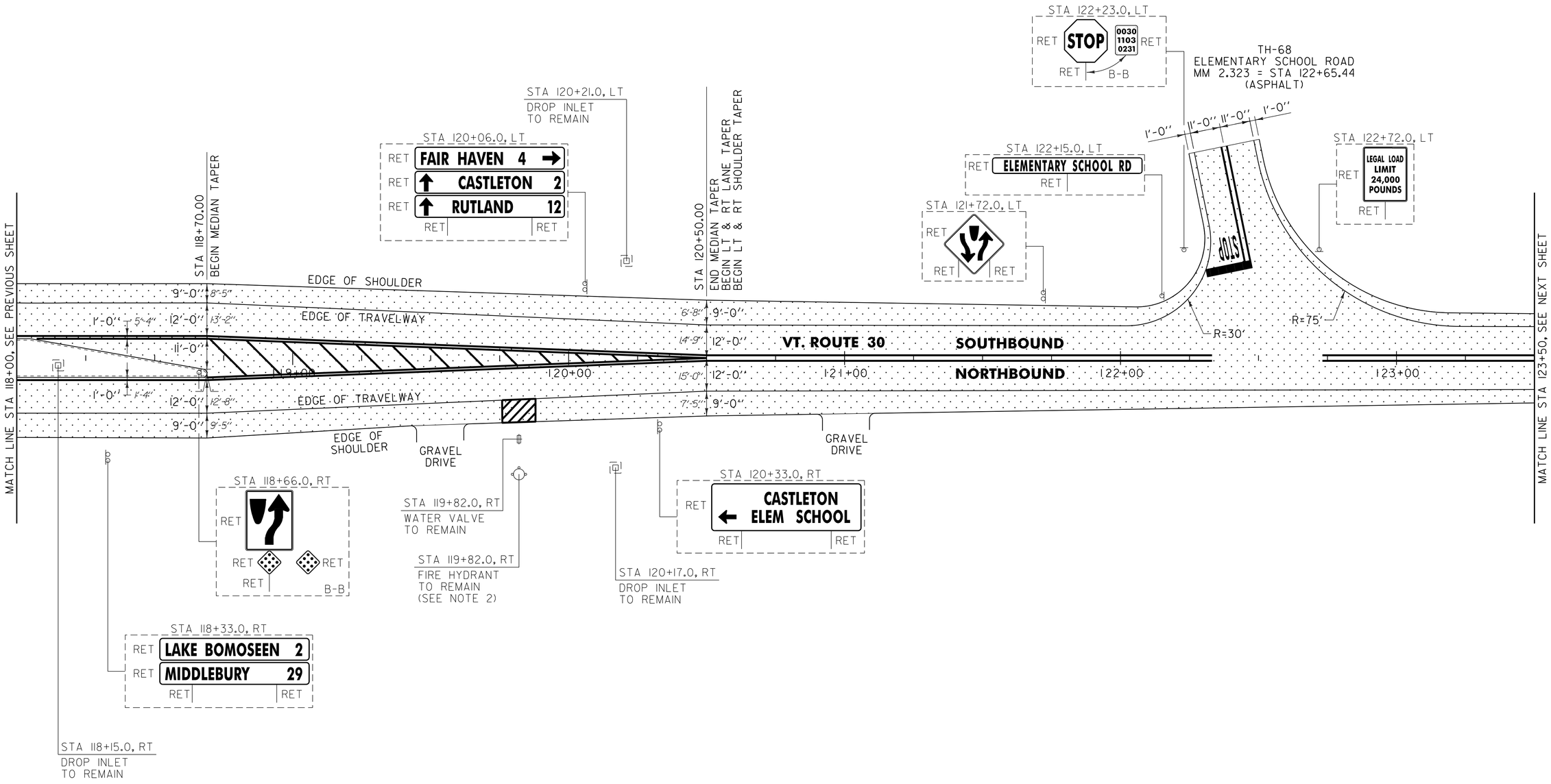
646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC OR
646.483 DURABLE 24 INCH STOP BAR, EPOXY PAINT OR
646.484 DURABLE 24 INCH STOP BAR, POLYUREA
CASTLETON:
STA 122+65.44 LT, TH-68

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
CASTLETON:
STA 122+65.44 LT, TH-68

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC OR
646.493 DURABLE LETTER OR SYMBOL, EPOXY PAINT
CASTLETON:
STA 122+65.44 LT, TH-68 "S,T,O,P" (4 EA)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
CASTLETON:
STA 122+65.44 LT, TH-68, "S,T,O,P" (8 EA)

646.81 PAINTED CURB
CASTLETON:
STA 118+00.0 - STA 118+70.0 LT (70.0 LF)
STA 118+40.0 - STA 118+70.0 RT (30.0 LF)



NOTES:

1. PAVING LIMIT ON ALL TOWN HIGHWAYS SHALL BE MEASURED 25 FT BACK FROM VT. ROUTE 30 EDGE OF SHOULDER UNLESS DENOTED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.
2. SEE SHEET 8 FOR FIRE HYDRANT PAVEMENT MARKING DETAIL.

AREA TO BE COLD PLANED

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———

NOT TO SCALE

PROJECT LAYOUT SHEET #8

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: p10c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c212108.i
PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 136 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 123+50.00 - STA 128+50.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

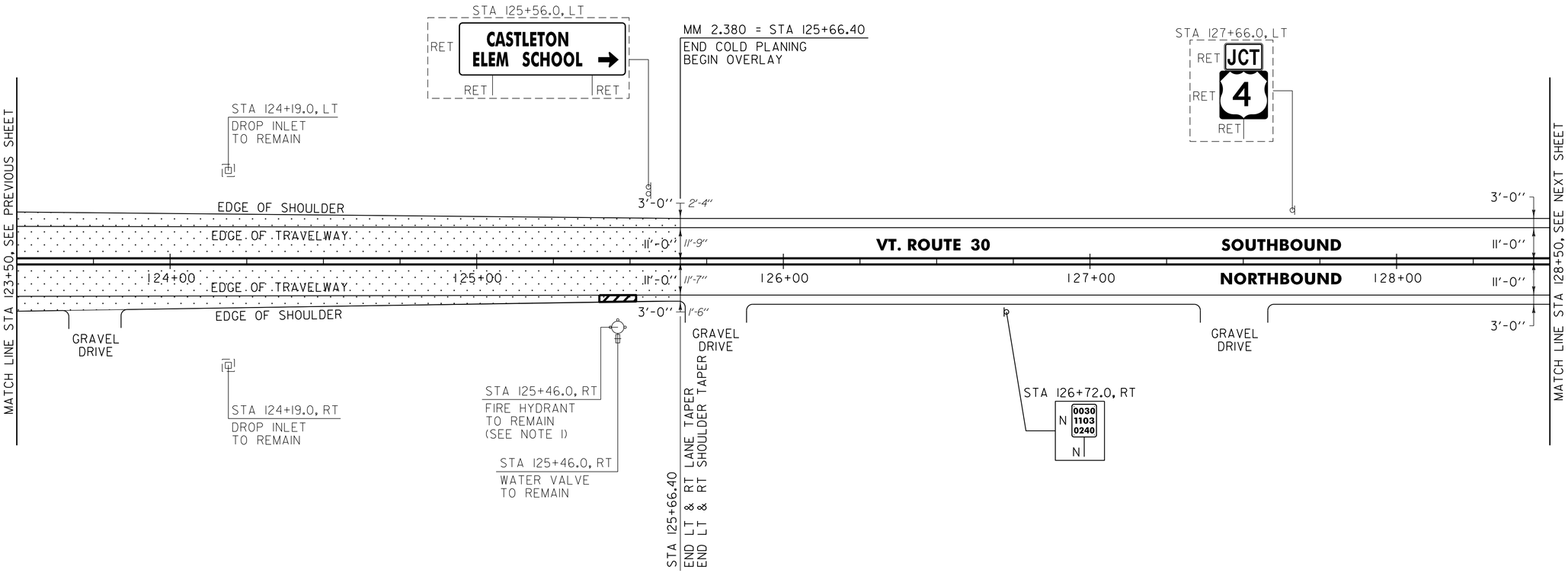
CASTLETON:	LT	℄	RT
STA 123+50.00 - STA 128+50.00	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 123+50.00 - STA 128+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 123+50.00 - STA 128+50.00	S	-	S

646.442 DURABLE 8 INCH WHITE LINE, THERMOPLASTIC OR
646.443 DURABLE 8 INCH WHITE LINE, EPOXY PAINT OR
646.444 DURABLE 8 INCH WHITE LINE, POLYUREA
CASTLETON:
STA 125+40.0 - STA 125+52.0 FIRE HYDRANT NO PARKING ZONE RT



NOTE:

1. SEE SHEET 8 FOR FIRE HYDRANT PAVEMENT MARKING DETAIL.

AREA TO BE COLD PLANED

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ————

NOT TO SCALE

PROJECT LAYOUT SHEET #9

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: pl0c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c212109.i
PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 137 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 128+50.00 - STA 140+50.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 128+50.00 - STA 140+50.00	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 128+50.00 - STA 140+50.00 EGE LINE LT & RT

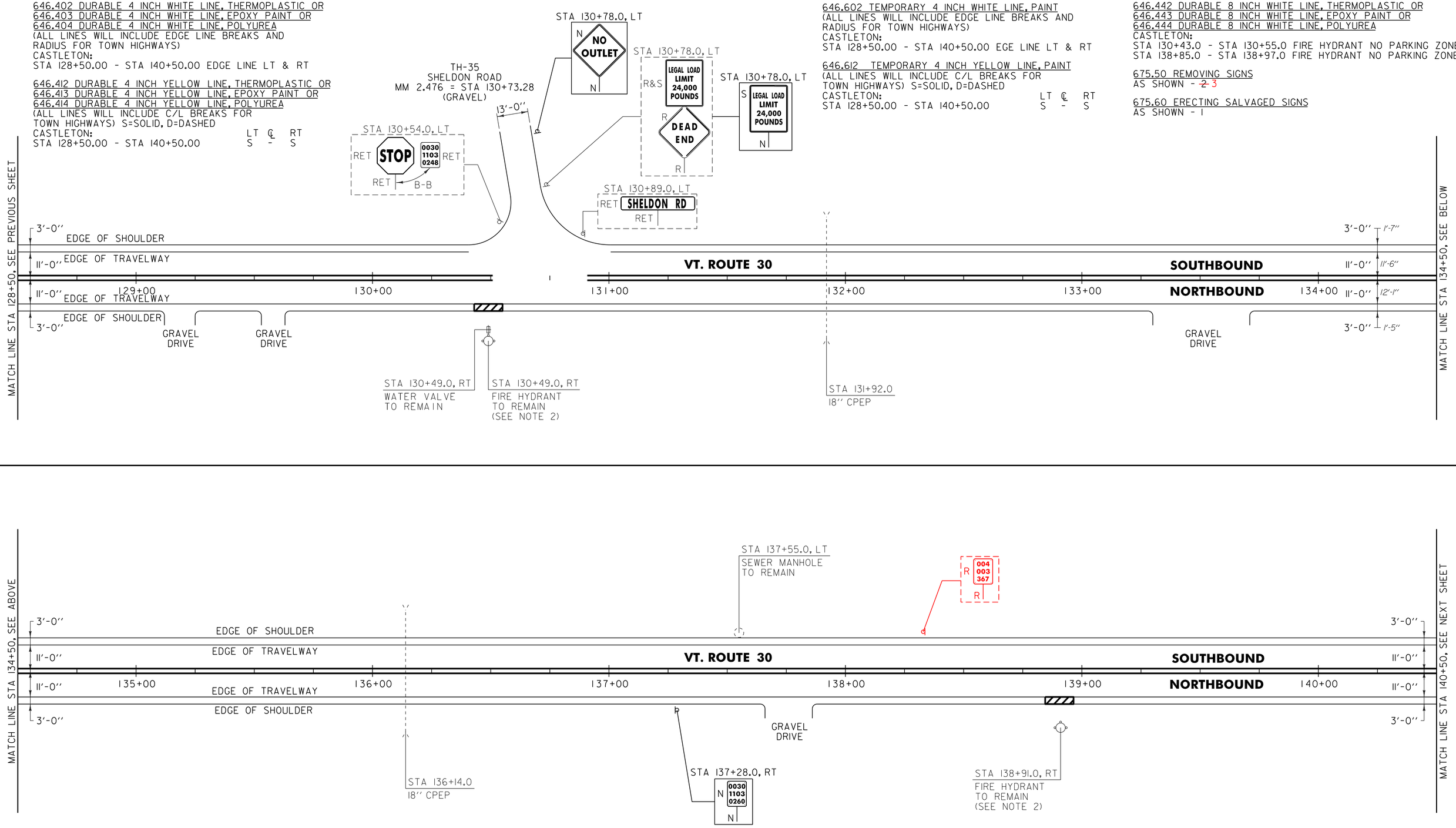
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 128+50.00 - STA 140+50.00	S	-	S

646.442 DURABLE 8 INCH WHITE LINE, THERMOPLASTIC OR
646.443 DURABLE 8 INCH WHITE LINE, EPOXY PAINT OR
646.444 DURABLE 8 INCH WHITE LINE, POLYUREA
CASTLETON:
STA 130+43.0 - STA 130+55.0 FIRE HYDRANT NO PARKING ZONE RT
STA 138+85.0 - STA 138+97.0 FIRE HYDRANT NO PARKING ZONE RT

675.50 REMOVING SIGNS
AS SHOWN - ~~2~~ 3

675.60 ERECTING SALVAGED SIGNS
AS SHOWN - 1



NOTES:

1. PAVING LIMIT ON ALL TOWN HIGHWAYS SHALL BE MEASURED 25 FT BACK FROM VT. ROUTE 30 EDGE OF SHOULDER UNLESS DENOTED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.

2. SEE SHEET 8 FOR FIRE HYDRANT PAVEMENT MARKING DETAIL.

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———

NOT TO SCALE

PROJECT LAYOUT SHEET #10

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: p10c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c212110.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 138 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 140+50.00 - STA 152+50.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

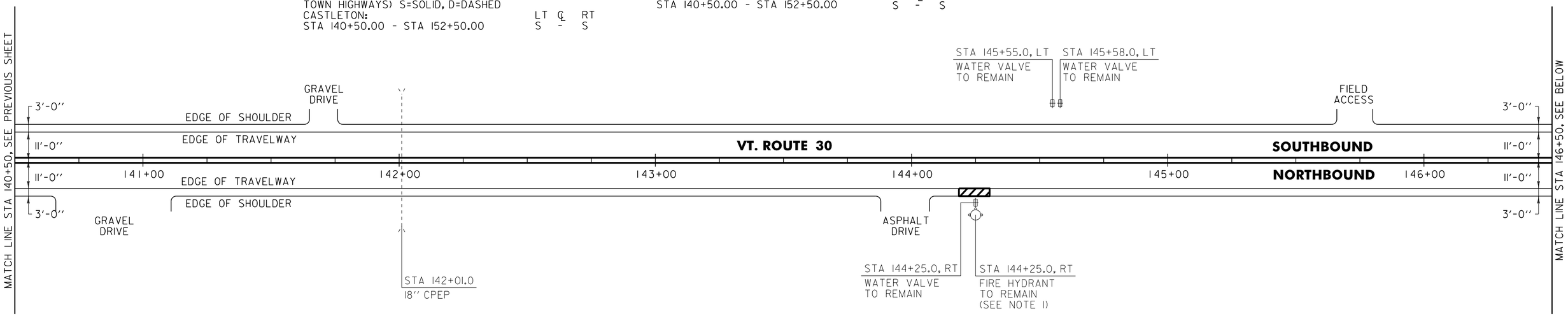
	LT	℄	RT
STA 140+50.00 - STA 152+50.00	S	-	S

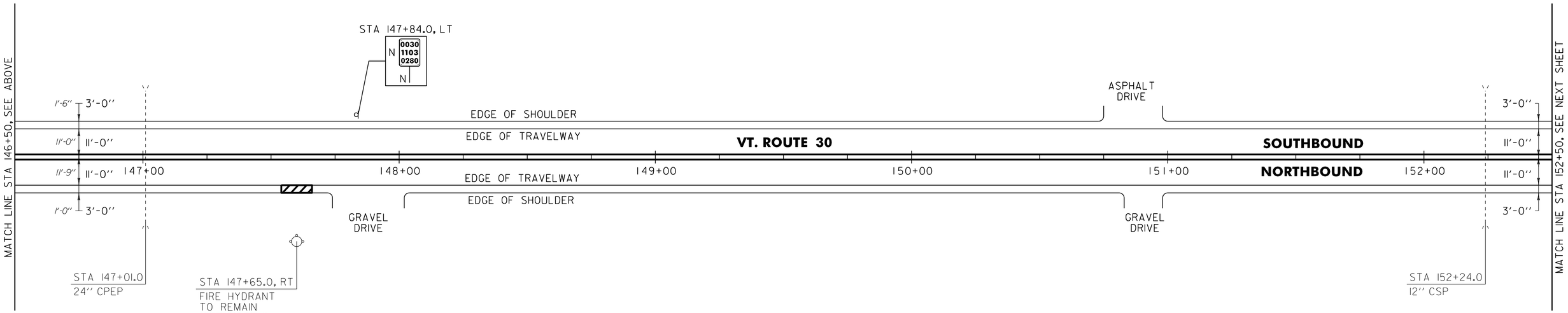
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 140+50.00 - STA 152+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 140+50.00 - STA 152+50.00	S	-	S

646.442 DURABLE 8 INCH WHITE LINE, THERMOPLASTIC OR
646.443 DURABLE 8 INCH WHITE LINE, EPOXY PAINT OR
646.444 DURABLE 8 INCH WHITE LINE, POLYUREA
CASTLETON:
STA 144+19.0 - STA 144+31.0 FIRE HYDRANT NO PARKING ZONE RT
~~STA 147+59.0 - STA 147+71.0 FIRE HYDRANT NO PARKING ZONE RT~~





NOTE:

1. SEE SHEET 8 FOR FIRE HYDRANT PAVEMENT MARKING DETAIL.

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———————

NOT TO SCALE

PROJECT LAYOUT SHEET #11

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: p10c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c212III.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 139 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 152+50.00 - STA 164+50.00 EDGE LINE LT & RT

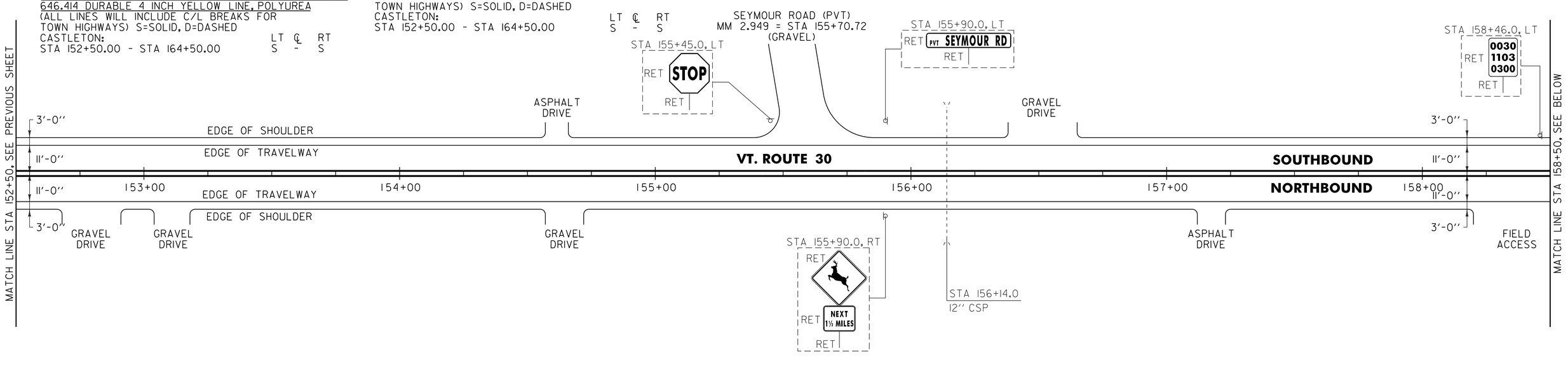
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

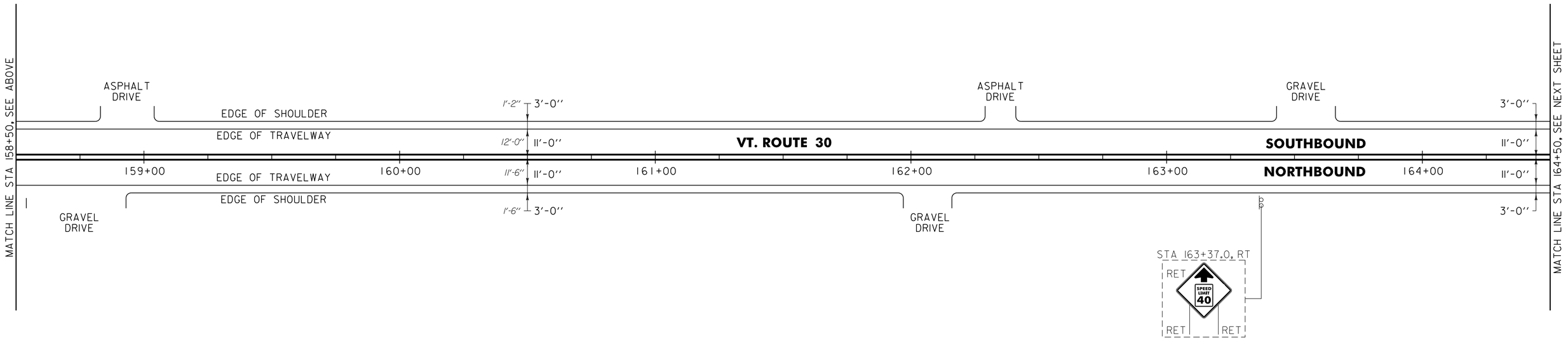
CASTLETON:	LT	℄	RT
STA 152+50.00 - STA 164+50.00	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 152+50.00 - STA 164+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 152+50.00 - STA 164+50.00	S	-	S





NOT TO SCALE

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———————

PROJECT LAYOUT SHEET #12

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: p10c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c212112.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 140 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 164+50.00 - STA 176+50.00 EDGE LINE LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON: LT ℄ RT
STA 164+50.00 - STA 176+50.00 S - S
STA 173+23.68 DOUBLE SOLID LT, TH-24

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 164+50.00 - STA 176+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON: LT ℄ RT
STA 164+50.00 - STA 176+50.00 S - S
STA 173+23.68 DOUBLE SOLID LT, TH-24

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC OR
646.483 DURABLE 24 INCH STOP BAR, EPOXY PAINT OR
646.484 DURABLE 24 INCH STOP BAR, POLYUREA
CASTLETON:
STA 173+23.68 LT, TH-24

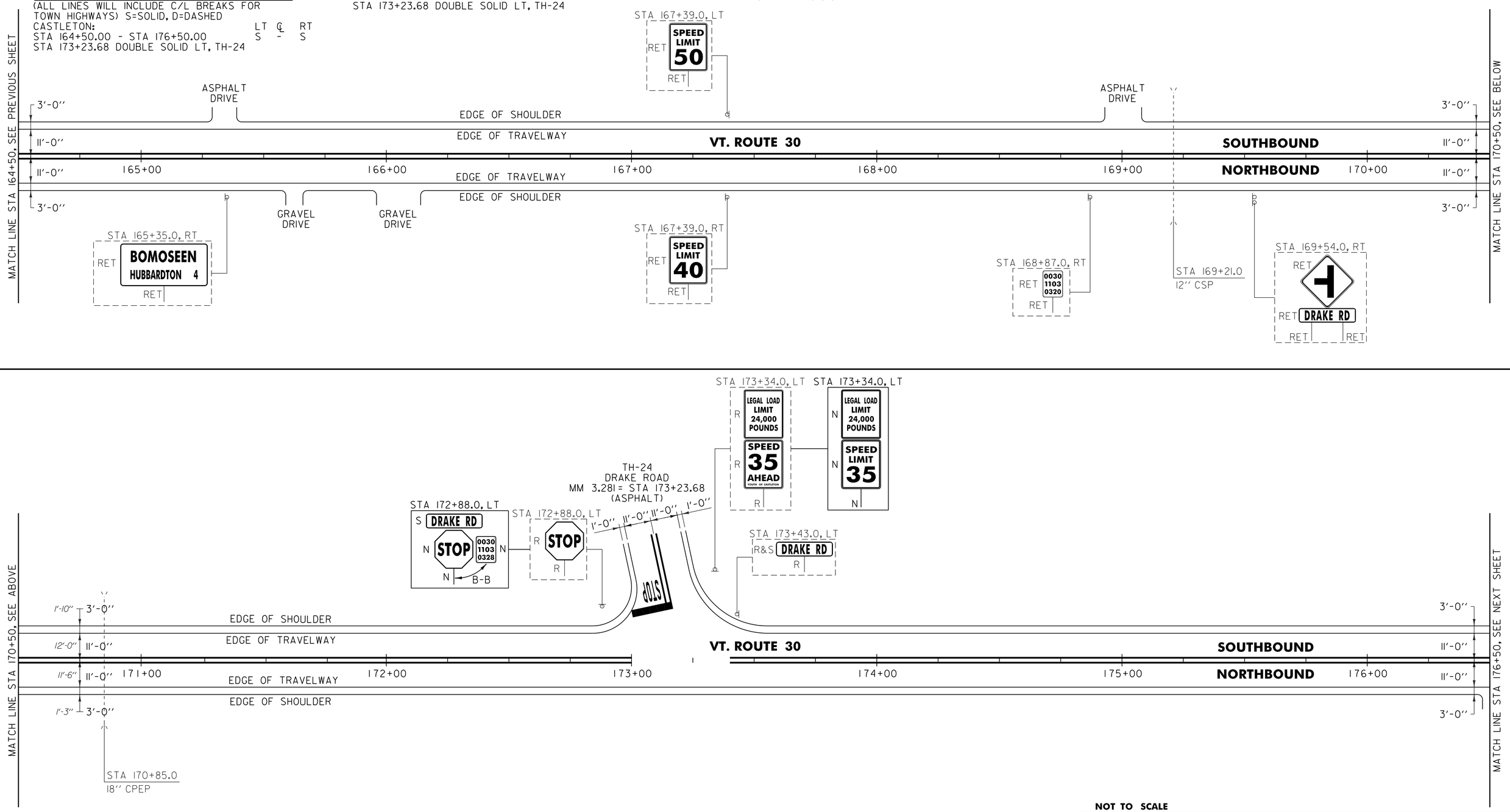
646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC OR
646.493 DURABLE LETTER OR SYMBOL, EPOXY PAINT
CASTLETON:
STA 173+23.68 LT, TH-24 "S,T,O,P" (4 EA)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
CASTLETON:
STA 173+23.68 LT, TH-24

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
CASTLETON:
STA 173+23.68 LT, TH-24, "S,T,O,P" (4 EA)

675.50 REMOVING SIGNS
AS SHOWN - 4

675.60 ERECTING SALVAGED SIGNS
AS SHOWN - 1



NOTE:

1. PAVING LIMIT ON ALL TOWN HIGHWAYS SHALL BE MEASURED 25 FT BACK FROM VT. ROUTE 30 EDGE OF SHOULDER UNLESS DENOTED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———

NOT TO SCALE

PROJECT LAYOUT SHEET #13

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: p10c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c212113.i
PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 141 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 176+50.00 - STA 188+50.00 EDGE LINE LT & RT

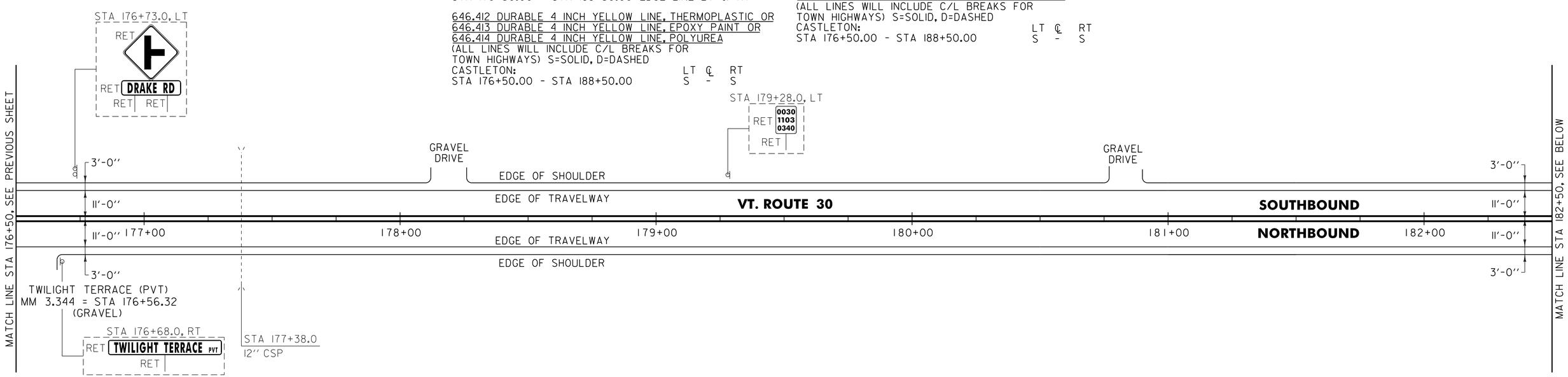
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

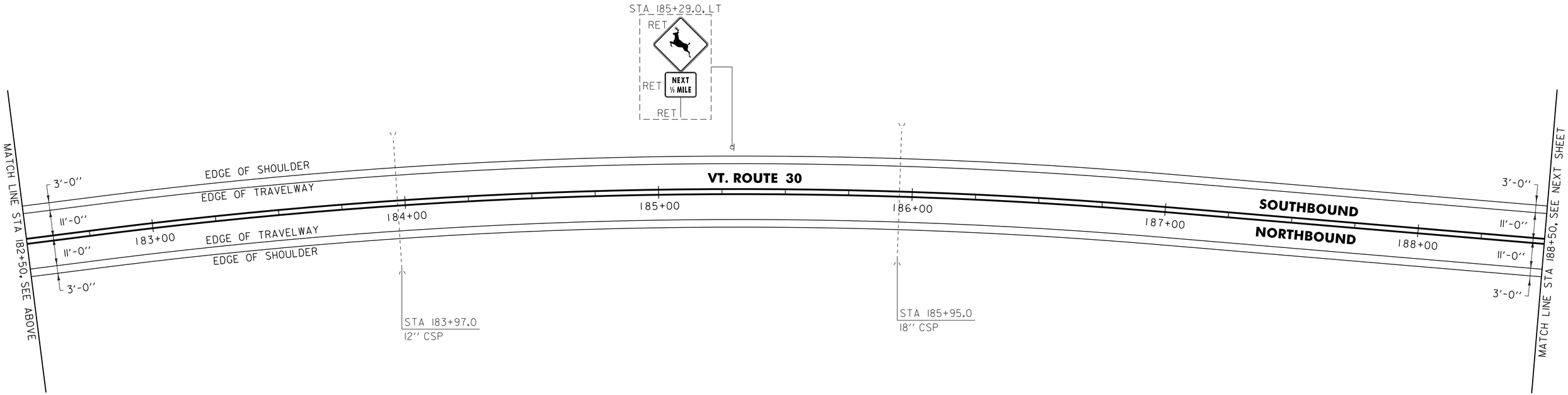
CASTLETON:	LT	℄	RT
STA 176+50.00 - STA 188+50.00	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 176+50.00 - STA 188+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 176+50.00 - STA 188+50.00	S	-	S





NOT TO SCALE

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———————

PROJECT LAYOUT SHEET #14

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: p10c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c212114.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 142 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 188+50.00 - STA 200+50.00 EDGE LINE LT & RT

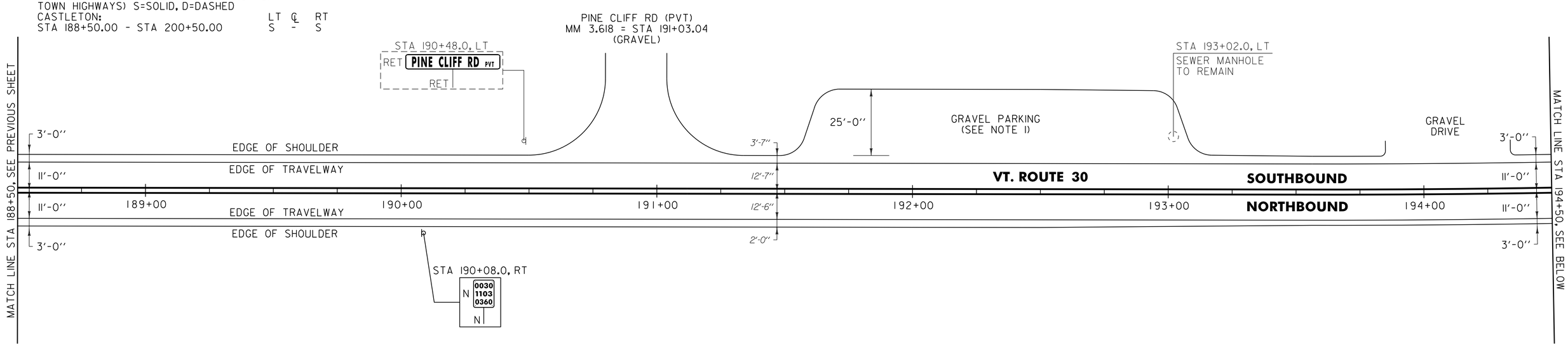
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

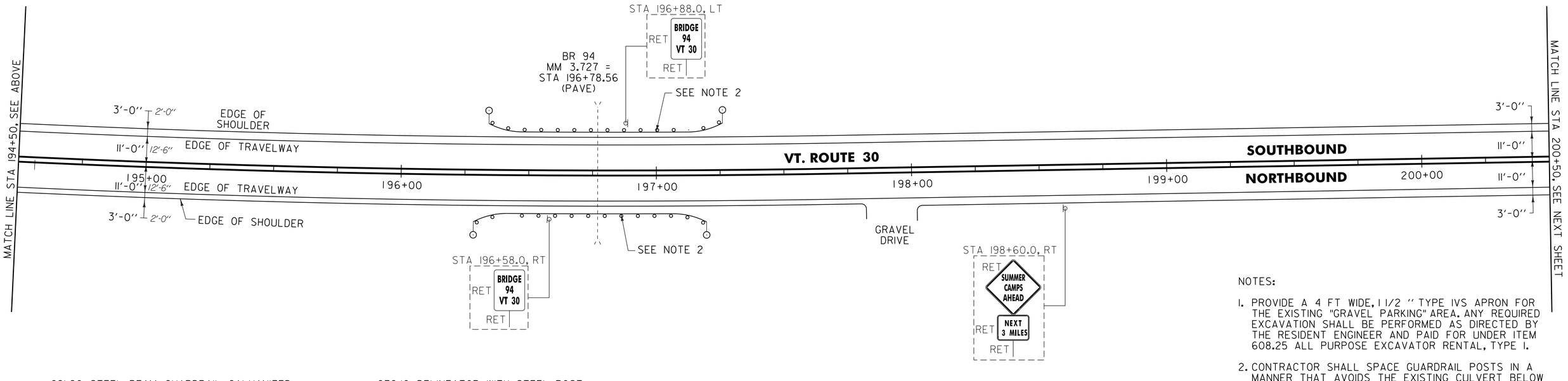
CASTLETON:	LT	℄	RT
STA 188+50.00 - STA 200+50.00	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 188+50.00 - STA 200+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 188+50.00 - STA 200+50.00	S	-	S





NOTES:

1. PROVIDE A 4 FT WIDE, 1 1/2 " TYPE IVS APRON FOR THE EXISTING "GRAVEL PARKING" AREA. ANY REQUIRED EXCAVATION SHALL BE PERFORMED AS DIRECTED BY THE RESIDENT ENGINEER AND PAID FOR UNDER ITEM 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I.
2. CONTRACTOR SHALL SPACE GUARDRAIL POSTS IN A MANNER THAT AVOIDS THE EXISTING CULVERT BELOW AS DIRECTED BY THE RESIDENT ENGINEER.

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
CASTLETON:
STA 196+28.2 - STA 197+19.7 RT (91.5 LF)
STA 196+34.4 - STA 197+25.9 LT (91.5 LF)

621.60 ANCHOR FOR STEEL BEAM RAIL
CASTLETON:
STA 196+34.7 RT
STA 196+40.9 LT
STA 197+13.2 RT
STA 197+19.4 LT

676.10 DELINEATOR WITH STEEL POST
CASTLETON:
STA 196+28.2 RT
STA 196+34.4 LT
STA 197+19.7 RT
STA 197+25.9 LT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
CASTLETON:
STA 196+42.0 - STA 197+19.0 RT (77.0 LF)
STA 196+42.0 - STA 197+19.0 LT (77.0 LF)

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———

NOT TO SCALE

PROJECT LAYOUT SHEET #15

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: pl0c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c212115.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 143 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 200+50.00 - STA 212+50.00 EDGE LINE LT & RT

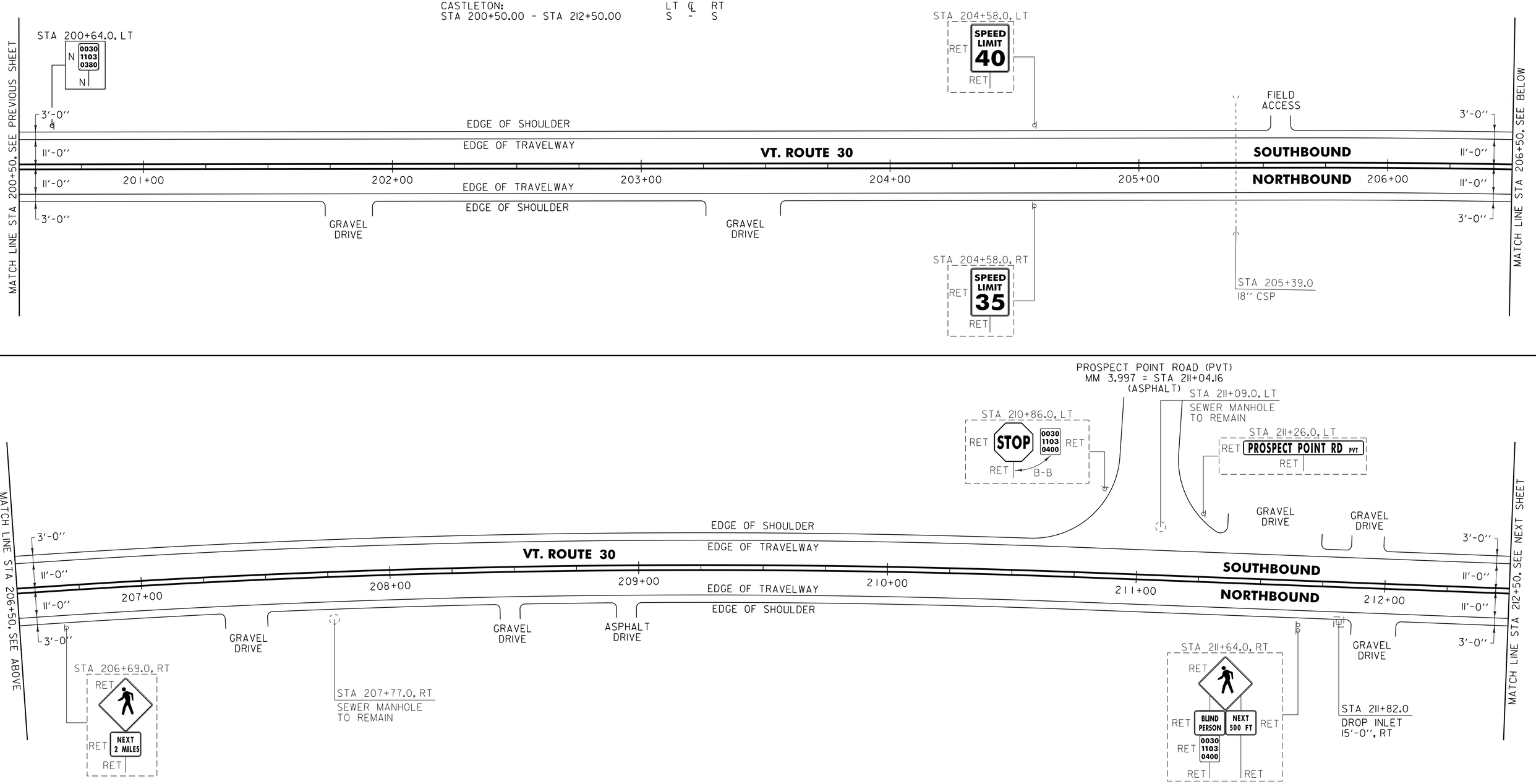
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 200+50.00 - STA 212+50.00	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 200+50.00 - STA 212+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 200+50.00 - STA 212+50.00	S	-	S



NOTE:

1. THE CONTRACTOR SHALL REHAB. THE EXISTING DROP INLETS, CATCH BASINS OR MANHOLES TO A DEPTH AS DIRECTED BY THE RESIDENT ENGINEER. ALL REHAB. WORK WILL BE PAID FOR UNDER THE APPLICABLE REHAB. ITEM AS DIRECTED BY THE RESIDENT ENGINEER. ALL EXISTING UTILITIES MARKED "TO REMAIN" SHALL NOT BE ALTERED OR REHABILITATED UNLESS DIRECTED OTHERWISE BY THE RESIDENT ENGINEER.

604.12, 604.415, 604.418 REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I, II, III (SEE NOTE 1)
CASTLETON:
STA 211+82.0 RT

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———

NOT TO SCALE

PROJECT LAYOUT SHEET #16

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)
FILE NAME: p10c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c212116.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 144 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 212+50.00 - STA 224+50.00 EDGE LINE LT & RT

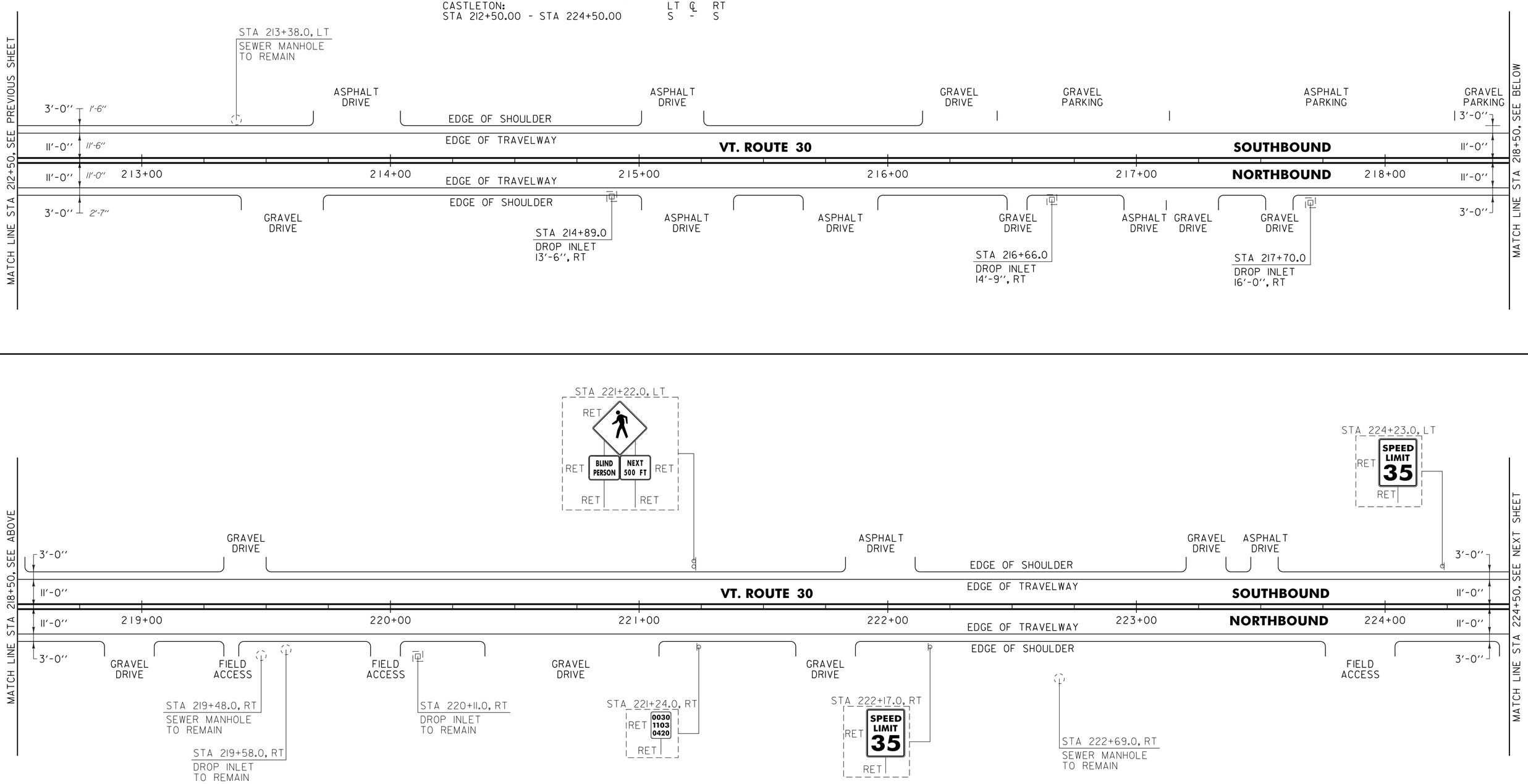
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 212+50.00 - STA 224+50.00	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 212+50.00 - STA 224+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 212+50.00 - STA 224+50.00	S	-	S



NOTE:

1. THE CONTRACTOR SHALL REHAB. THE EXISTING DROP INLETS, CATCH BASINS OR MANHOLES TO A DEPTH AS DIRECTED BY THE RESIDENT ENGINEER. ALL REHAB. WORK WILL BE PAID FOR UNDER THE APPLICABLE REHAB. ITEM AS DIRECTED BY THE RESIDENT ENGINEER. ALL EXISTING UTILITIES MARKED "TO REMAIN" SHALL NOT BE ALTERED OR REHABILITATED UNLESS DIRECTED OTHERWISE BY THE RESIDENT ENGINEER.

604.12, 604.415, 604.418 REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I, II, III
CASTLETON:
STA 214+89.0 RT
STA 216+66.0 RT
STA 217+70.0 RT

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - -
NEW = ———

NOT TO SCALE

PROJECT LAYOUT SHEET #17

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: pl0c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c212117.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 145 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 224+50.00 - STA 236+50.00 EDGE LINE LT & RT

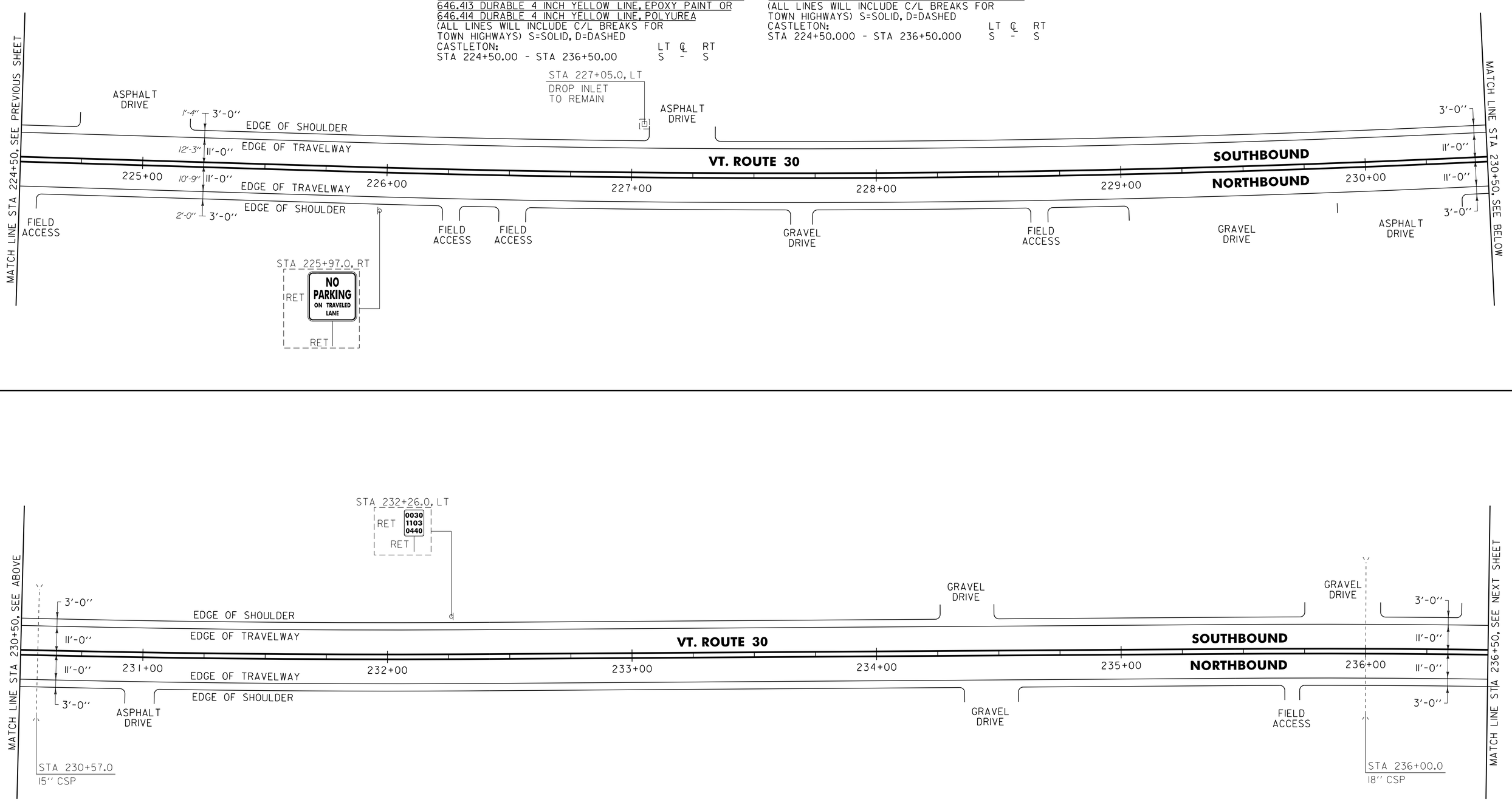
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 224+50.00 - STA 236+50.00	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 224+50.000 - STA 236+50.000 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 224+50.000 - STA 236+50.000	S	-	S



NOT TO SCALE

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———

PROJECT LAYOUT SHEET #18

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: p10c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c212118.i
PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 146 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 236+50.00 - STA 248+50.00 EDGE LINE LT & RT

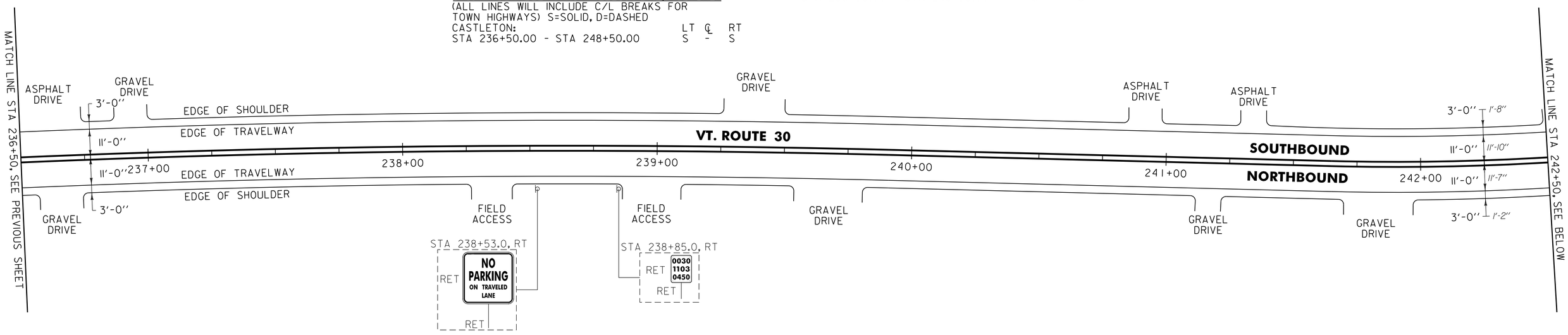
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

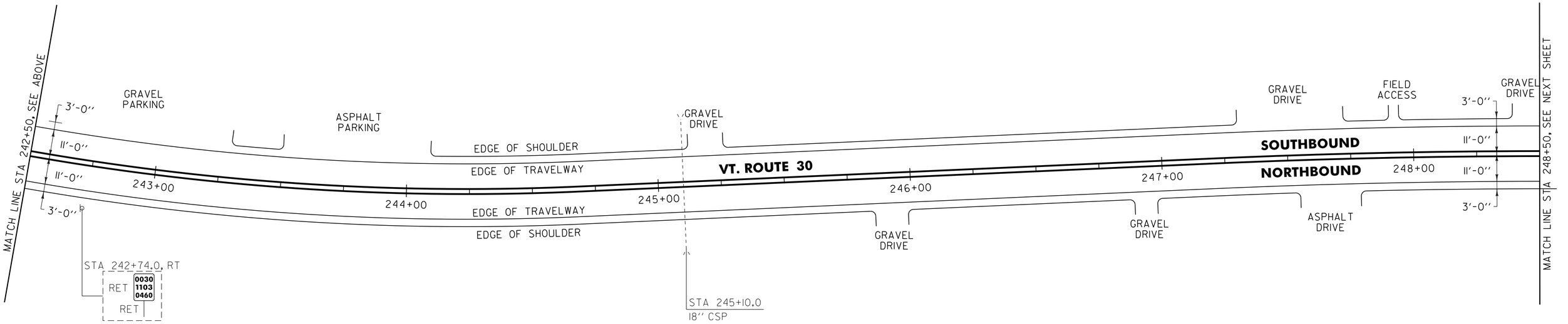
CASTLETON:	LT	℄	RT
STA 236+50.00 - STA 248+50.00	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 236+50.00 - STA 248+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 236+50.00 - STA 248+50.00	S	-	S





NOT TO SCALE

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———————

PROJECT LAYOUT SHEET #19

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: p10c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c212119.i
PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 147 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 248+50.00 - STA 260+50.00 EDGE LINE LT & RT

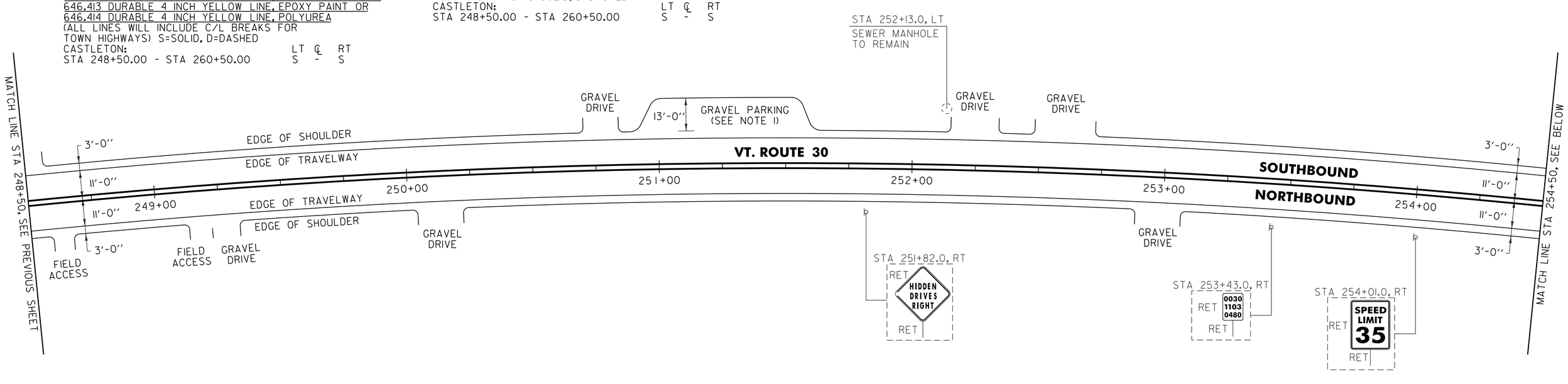
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

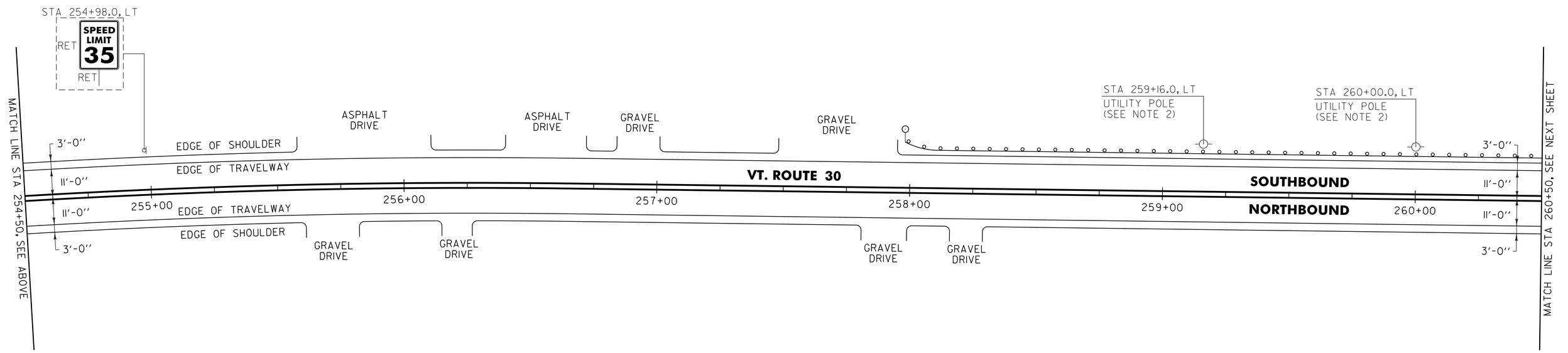
	LT	℄	RT
STA 248+50.00 - STA 260+50.00	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 248+50.00 - STA 260+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED
CASTLETON:

	LT	℄	RT
STA 248+50.00 - STA 260+50.00	S	-	S





NOTES:

1. PROVIDE A 4 FT WIDE, 1½'' TYPE IVS APRON FOR THE EXISTING ''GRAVEL PARKING''. ANY REQUIRED EXCAVATION SHALL BE PERFORMED AS DIRECTED BY THE RESIDENT ENGINEER AND PAID FOR UNDER ITEM 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I.
2. SEE SHEET 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING AT UTILITY POLE DETAIL.

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
CASTLETON:
STA 257+97.0 - STA 260+50.0 LT (293.0 LF)

621.60 ANCHOR FOR STEEL BEAM RAIL
CASTLETON:
STA 258+03.5 LT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
CASTLETON:
STA 257+97.0 - STA 260+50.0 LT (253.0 LF)

676.10 DELINEATOR WITH STEEL POST
CASTLETON:
STA 257+97.0 LT

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = – – – – – –
NEW = ————

NOT TO SCALE

PROJECT LAYOUT SHEET #20

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: p10c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c212120.i
PLOT DATE: 04-JUN-2013 09:5
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 148 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 260+50.00 - STA 272+50.00 EDGE LINE LT & RT

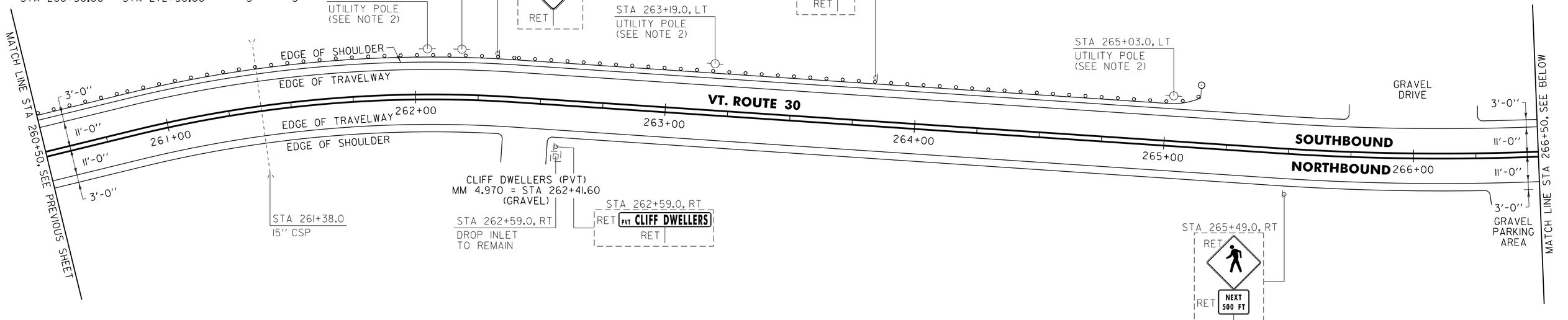
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

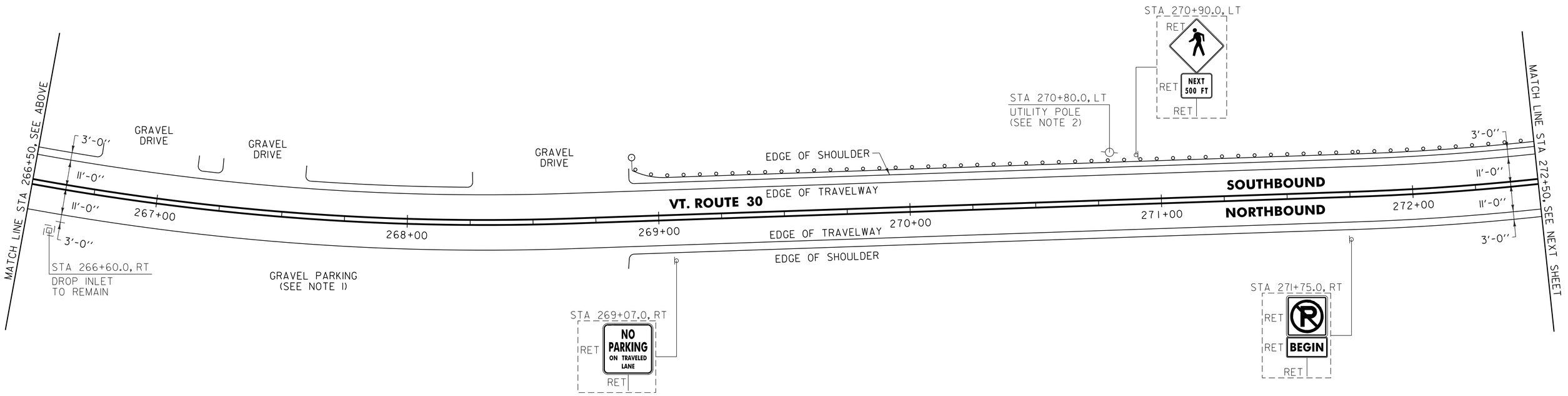
CASTLETON:	LT	℄	RT
STA 260+50.00 - STA 272+50.00	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 260+50.00 - STA 272+50.00 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 260+50.00 - STA 272+50.00	S	-	S





NOTES:

1. PROVIDE A 4 FT WIDE, 1½" TYPE IVS APRON FOR THE EXISTING "GRAVEL PARKING". ANY REQUIRED EXCAVATION SHALL BE PERFORMED AS DIRECTD BY THE RESIDENT ENGINEER AND PAID FOR UNDER ITME 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I.
2. SEE SHEET 10 FOR REDUCED STEEL BEAM GUARDRAIL POST SPACING AT UTILITY POLE DETAIL.

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
CASTLETON:
STA 260+50.0 - STA 265+17.5 LT (528.5 LF)
STA 268+90.0 - STA 272+50.0 LT (360.0 LF)

621.60 ANCHOR FOR STEEL BEAM RAIL
CASTLETON:
STA 265+11.5 LT
STA 268+96.5 LT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
CASTLETON:
STA 260+50.0 - STA 265+03.0 LT (453.0 LF)
STA 268+90.0 - STA 272+50.0 LT (360.0 LF)

676.10 DELINEATOR WITH STEEL POST
CASTLETON:
STA 265+17.5 LT
STA 268+90.0 LT

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———

NOT TO SCALE

PROJECT LAYOUT SHEET #21

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: p10c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c212121.i
PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 149 OF 152

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC OR
646.403 DURABLE 4 INCH WHITE LINE, EPOXY PAINT OR
646.404 DURABLE 4 INCH WHITE LINE, POLYUREA
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 272+50.00 - STA 274+03.20 EDGE LINE LT & RT

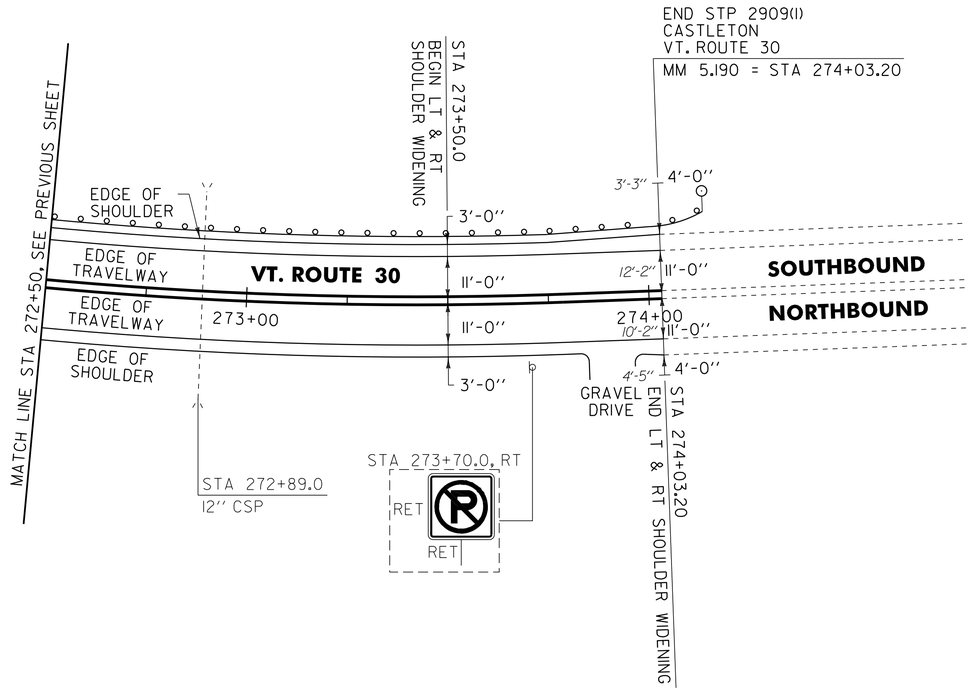
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC OR
646.413 DURABLE 4 INCH YELLOW LINE, EPOXY PAINT OR
646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 272+50.00 - STA 274+03.20	S	-	S

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS AND RADIUS FOR TOWN HIGHWAYS)
CASTLETON:
STA 272+50.00 - STA 274+03.20 EDGE LINE LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
(ALL LINES WILL INCLUDE C/L BREAKS FOR TOWN HIGHWAYS) S=SOLID, D=DASHED

CASTLETON:	LT	℄	RT
STA 272+50.00 - STA 274+03.20	S	-	S



621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
CASTLETON:
STA 272+50.0 - STA 274+19.0 (189.0 LF)

621.60 ANCHOR FOR STEEL BEAM RAIL
CASTLETON:
STA 274+12.5 LT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
CASTLETON:
STA 272+50.0 - STA 274+14.0 LT (164.0 LF)

676.10 DELINEATOR WITH STEEL POST
CASTLETON:
STA 274+19.0 LT

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = - - - - - - -
NEW = ———————

NOT TO SCALE

PROJECT LAYOUT SHEET #22

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: p10c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: p10c212122.i
PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 150 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 1

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	FLANGED CHANNEL lb/ft 2.0	FLANGED CHANNEL lb/ft 3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	SQUARE STEEL (in) 2.0 lb/ft 2.42	SQUARE STEEL (in) 2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) 3.0 lb/ft 1.3	TUBULAR ALUMINUM Ø (in) 4.0 lb/ft 1.7	TUBULAR ALUMINUM Ø (in) 4.0 MOD lb/ft 1.7	TUBULAR STEEL Ø (in) FOUNDATION	TUBULAR STEEL Ø (in) 3.0 lb/ft 7.6	TUBULAR STEEL Ø (in) 3.5 lb/ft 9.0	TUBULAR STEEL Ø (in) 4.0 lb/ft 10.8	TUBULAR STEEL Ø (in) 5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	W-SHAPE STEEL FTG. SIZE 30"	W-SHAPE STEEL WEIGHT	W-SHAPE STEEL POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	SIGN DETAIL DETAIL ON DWG. NUMBER	SIGN DETAIL STD. SHEET NUMBER
CASTLETON: 81+40.0, LT	4 ONLY	1	36	30	~~7.50~~						~~2~~					~~X~~			~~X~~														SIGN ID CODE VR-922 RETAINED: SIGN REPLACED BY PREVIOUS PROJECT			E-145A
95+38, LT	0030 1103 0400	1	6	10	0.42						1				~~X~~ 6' 6"			X																	
105+68.0, LT	0030 1103 0200	1	6	10	0.42																												SIGN TO BE MOUNTED ON EXISTING SIGN POST. SIGN ID CODE VD-700			E-138
107+55.0, LT	SPEED LIMIT 40						1				2					~~14' 9"~~ ~~X~~ 14' 3"			X															SALVAGED SIGN TO BE RELOCATED ON NEW POSTS. FROM STA 109+02 LT	-	-	-
109+25.0, LT	ONLY	1	30	30	6.25						1					~~X~~ 14' 0"			X															SIGN ID CODE VR-921			E-145A
111+35.0, RT	ONLY	1	30	30	6.25						1					~~X~~ 13' 3"			X															SIGN ID CODE VR-921			E-145A
126+72.0, RT	0030 1103 0240	1	6	10	0.42						1				~~X~~ 7' 0"				X															SIGN ID CODE VD-700			E-138
130+78.0, LT	LEGAL LOAD LIMIT 24,000 POUNDS						1				1					~~X~~ 13' 6"			X															SALVAGED SIGN TO BE MOUNTED ON NEW POST.			E-141
130+78.0, LT	NO OUTLET	1	30	30	6.25						1					~~X~~ 14' 0"			X															SIGN ID CODE W14-2	X		
137+28.0, RT	0030 1103 0260	1	6	10	0.42						1				~~X~~ 7' 0"				X															SIGN ID CODE VD-700			E-138
												LF	LF	LF	LF	LF	LF		EA.	LB	LB	LB		LB	LB	LB	LB								
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."															~~28~~ 20.5	~~112~~ 83.75																				
TOTALS					SF ~~27.51~~ 20.43	SF	EA. 2	SF				LF			LF ~~140~~ 104.25					LB			EA.	LB				EA.	EA.	LB							

TRAFFIC SIGN SUMMARY SHEET #1

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(1)

FILE NAME: pl0c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c212tssl.i

PLOT DATE: 04-JUN-2013 09:
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 151 OF 152

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 2

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.42	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0 MOD lb/ft 1.7	FOUNDATION	TUBULAR STEEL Ø (in) 3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS SHS = FHWA STANDARD HIGHWAY SIGNS BOOK	SIGN DETAIL DETAIL IN SHS	DETAIL ON DWG. NUMBER	STD. SHEET NUMBER
CASTLETON: 147+84.0, LT	0030 1103 0280	1	6	10	0.42						1				~~X~~ 8' 0"			X																SIGN ID CODE VD-700			E-138
172+88.0, LT	DRAKE RD						1				1					~~X~~ 14' 0"		X																SALVAGED SIGN TO BE MOUNTED ON NEW POST. TOP MOUNTING BRACKETS REQUIRED TO INSTALL SALVAGED SIGN TO NEW POST. COSTS ASSOCIATED WITH THIS BRACKET ARE INCIDENTAL TO THE SIGN POST.	-	-	-
	STOP 0030 1103 0328	1 1	30 6	30 10	6.25 0.42																												BACK-TO-BACK SIGN ID CODE R1-1 SIGN ID CODE VD-700	X		E-138
173+34.0, LT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.00						1					~~X~~ 16' 9"		X																SIGN ID CODE VR-017			E-141
	SPEED LIMIT 35	1	24	30	5.00																												SIGN ID CODE R2-1	X		
190+08.0, RT	0030 1103 0360	1	6	10	0.42						1				~~X~~ 7' 10"			X																SIGN ID CODE VD-700			E-138
200+64.0, LT	0030 1103 0380	1	6	10	0.42						1				~~X~~ 7' 6"			X																SIGN ID CODE VD-700			E-138
	SUBTOTAL THIS SHEET				17.93		1								~~42~~ 23.33	~~28~~ 30.75																					
	SHEET 151 SUBTOTAL				~~27.51~~ 40.43		2								~~28~~ 20.5	~~112~~ 83.75																					
	ROUNDING				~~0.56~~		-								5	10																					
												LF	LF	LF	LF ~~75~~	LF ~~150~~	LF		EA.	LB	LB	LB		LB	LB	LB	LB									
															43.83	114.5																					
TOTALS		SF ~~46~~ 38.36	SF	EA. 3	SF		LF					LF ~~225~~ 158.33						LB	EA.	LB							EA.	EA.	LB							

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TRAFFIC SIGN SUMMARY SHEET #2

PROJECT NAME: CASTLETON
PROJECT NUMBER: STP 2909(I)

FILE NAME: pl0c212.dgn
PROJECT LEADER: D.E.G.
DESIGNED BY: M.J.M.
IPARM FILE: pl0c212tss2.i

PLOT DATE: 04-JUN-2013 09:1
DRAWN BY: W.G.P.
CHECKED BY: D.E.G.
SHEET 152 OF 152