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  25. CENTERLINE RUMBLE STRIP DETAIL SHEET
  26. CONSTRUCTION APPROACH SIGNING SHEET

**STRUCTURE DETAILS**  
SD-516.10 BRIDGE JOINT ASPHALTIC PLUG 05/07/2010

**STANDARDS**

T-10	08/06/12
T-17	08/06/12
T-28	08/06/12
T-30	08/06/12
T-35	08/06/12
T-36	08/06/12
E-191	02/01/99
E-193	08/18/95

**STATE OF VERMONT  
AGENCY OF TRANSPORTATION**

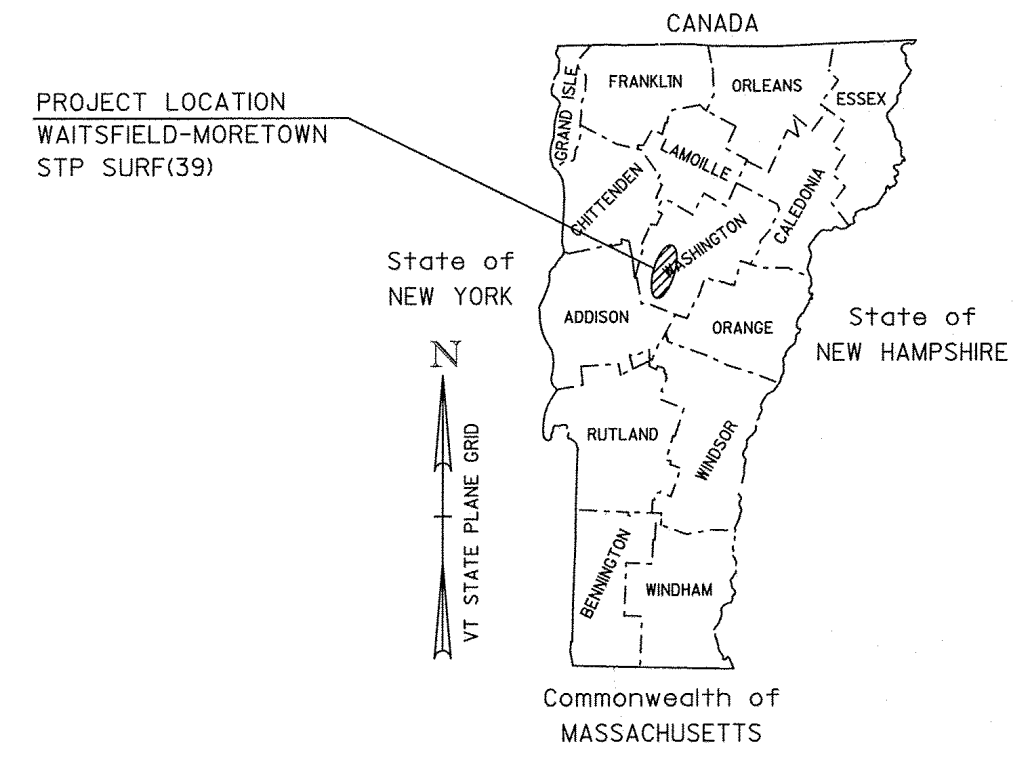


**PROPOSED IMPROVEMENT  
TOWNS OF WAITSFIELD, DUXBURY AND MORETOWN  
COUNTY OF WASHINGTON  
VT. RTE. 100 - MINOR ARTERIAL**

BEGINNING ON VT. RTE. 100 IN THE TOWN OF WAITSFIELD 2.422 MILES NORTH OF THE WARREN-WAITSFIELD TOWN LINE AT MILE MARKER 2.422 AND EXTENDING NORTHERLY APPROXIMATELY 12.619 MILES TO THE INTERSECTION OF U.S. RTE. 2 TO MILE MARKER 1.227 IN THE TOWN OF MORETOWN.

LENGTH OF ROADWAY = 66,628.32 FT = 12.619 MILES  
LENGTH OF PROJECT = 66,628.32 FT = 12.619 MILES

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES SURFACE PREPARATION INVOLVING PATCHING, POT HOLE REPAIR AND CRACK SEALING AS NECESSARY; GROUND PLANING AS NECESSARY, AND OVERLAYING WITH A THIN BITUMINOUS SURFACE TREATMENT ON THE EXISTING TYPICAL, AND OTHER HIGHWAY RELATED ITEMS.



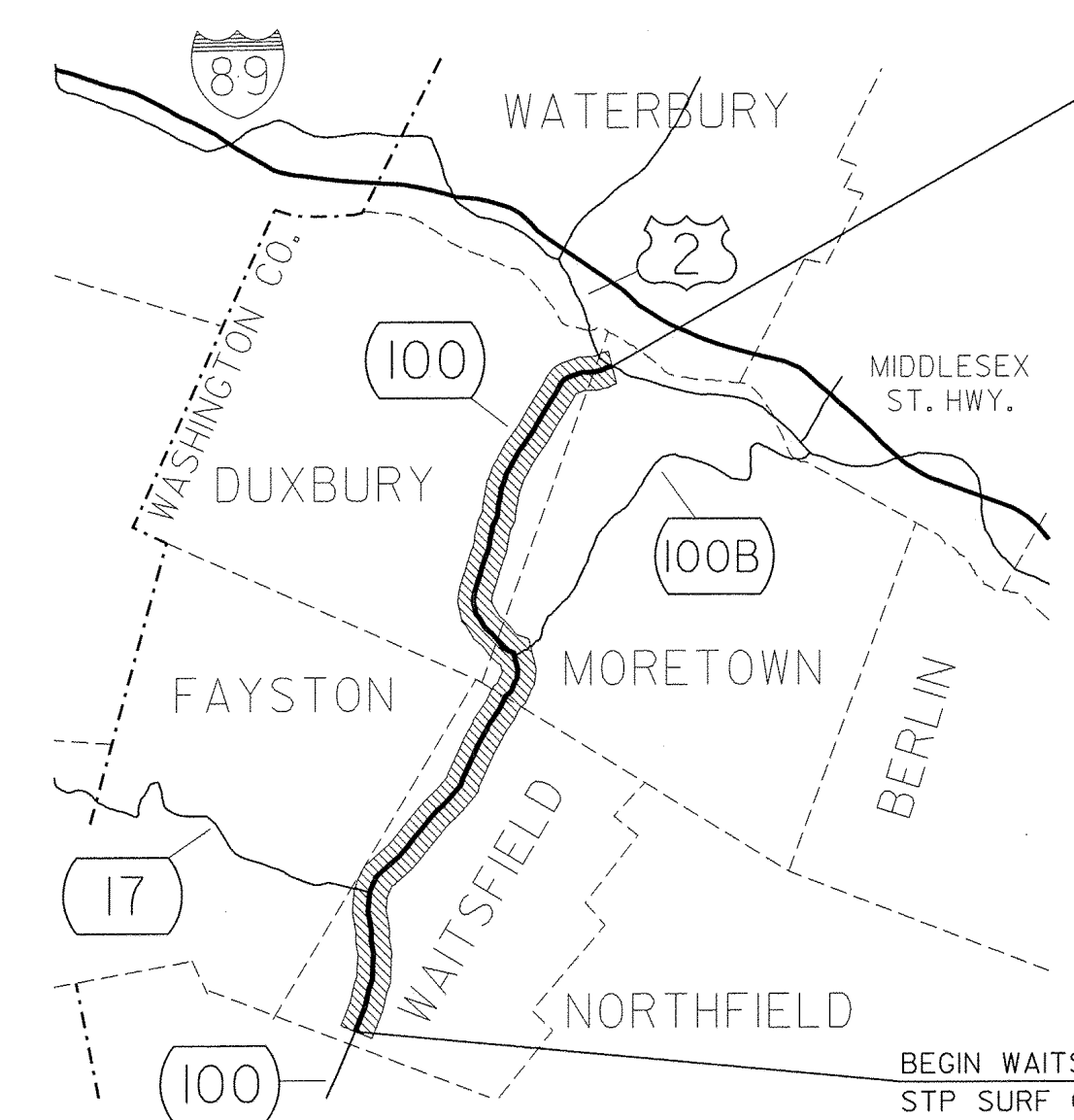
**RECORD PLANS**

CONTRACTOR: F.W. WHITCOMB CONSTRUCTION CORP. - WALPOLE, NH  
RESIDENT ENGINEER: JOSH HULETT  
CONSTRUCTION BEGAN: AUGUST 25, 2014  
CONSTRUCTION COMPLETE: JULY 16, 2015  
RECORD PLANS BY: JOSH HULETT & KEVIN KING

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

BY: *Josh Hulett* RESIDENT ENGINEER  
DATE: MARCH 3, 2016

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.



END WAITSFIELD-MORETOWN  
STP SURF (39)  
VT. RTE. 100  
MM 1.227

**TRAFFIC DATA**

	2014 AADT	2024 AADT	2014 DHV	2024 DHV	FLEXIBLE ESALS (2014-2024)	FLEXIBLE ESALS (2014-2034)
BEGIN PROJECT TO VT 17 (MM 2.422 - 2.594)	4800	5000	600	630	844,000	1,903,000
VT 17 TO BRIDGE STREET (MM 2.594 - 3.650)	7100	7300	940	970	1,236,000	2,835,000
BRIDGE STREET TO NORTH FAYSTON ROAD (MM 3.650 - 7.000)	6300	6500	840	860	1,392,000	3,207,000
NORTH FAYSTON ROAD TO VT 100B (MM 7.000 - 0.455)	5900	6000	820	840	1,188,000	2,924,000
VT 100B TO RIVER ROAD (MM 0.455 - 6.149)	4000	4200	560	590	569,000	1,309,000
RIVER ROAD TO END PROJECT (MM 6.149 - 1.227)	6000	6100	680	690	852,000	2,104,000

BEGIN WAITSFIELD-MORETOWN  
STP SURF (39)  
VT. RTE. 100  
MM 2.422

NOT TO SCALE

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 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 3

SURVEYED BY : L. ORVIS  
SURVEYED DATE : 11/4/13

DATUM  
VERTICAL NAVD 88  
HORIZONTAL NAD 83(2007)

DIRECTOR OF PROGRAM DEVELOPMENT  
APPROVED: *Michael J. Fowler* DATE: 1/26/16  
PROJECT MANAGER : MICHAEL J. FOWLER, PE  
PROJECT NAME : WAITSFIELD-MORETOWN  
PROJECT NUMBER : STP SURF(39)  
SHEET 1 OF 26 SHEETS

**GENERAL INFORMATION**

**SYMBOLY LEGEND NOTE**

THE SYMBOLY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLY. THE SYMBOLY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

**R.O.W. ABBREVIATIONS (CODES) & SYMBOLS**

POINT CODE	DESCRIPTION
CH	CHANNEL EASEMENT
CONST	CONSTRUCTION EASEMENT
CUL	CULVERT EASEMENT
D&C	DISCONNECT & CONNECT
DIT	DITCH EASEMENT
DR	DRAINAGE EASEMENT
DRIVE	DRIVEWAY EASEMENT
EC	EROSION CONTROL
HWY	HIGHWAY EASEMENT
I&M	INSTALL & MAINTAIN EASEMENT
LAND	LANDSCAPE EASEMENT
R&RES	REMOVE & RESET
R&REP	REMOVE & REPLACE
SR	SLOPE RIGHT
UE	UTILITY EASEMENT
(P)	PERMANENT EASEMENT
(T)	TEMPORARY EASEMENT
■	BNDNS BOUND SET
▣	BNDNS BOUND TO BE SET
●	IPNS IRON PIN SET
⊙	IPNS IRON PIN TO BE SET
⊠	CALC EXISTING ROW POINT
○	PROW PROPOSED ROW POINT
[LENGTH]	LENGTH CARRIED ON NEXT SHEET

**COMMON TOPOGRAPHIC POINT SYMBOLS**

POINT CODE	DESCRIPTION
⊕	APL BOUND APPARENT LOCATION
□	BM BENCH MARK
▣	BND BOUND
▣	CB CATCH BASIN
⊕	COMB COMBINATION POLE
▣	DITHR DROP INLET THROATED DNC
⊕	EL ELECTRIC POWER POLE
○	FPOLE FLAGPOLE
○	GASFIL GAS FILLER
○	GP GUIDE POST
×	GSO GAS SHUT OFF
○	GUY GUY POLE
○	GUYW GUY WIRE
×	GV GATE VALVE
⊕	H TREE HARDWOOD
△	HCTRL CONTROL HORIZONTAL
△	HVCTRL CONTROL HORIZ. & VERTICAL
◇	HYD HYDRANT
○	IP IRON PIN
○	IPIPE IRON PIPE
⊕	LI LIGHT - STREET OR YARD
⊕	MB MAILBOX
○	MH MANHOLE (MH)
▣	MM MILE MARKER
○	PM PARKING METER
▣	PMK PROJECT MARKER
○	POST POST STONE/WOOD
⊕	RRSIG RAILROAD SIGNAL
⊕	RRSL RAILROAD SWITCH LEVER
⊕	S TREE SOFTWOOD
⊕	SAT SATELLITE DISH
⊕	SHRUB SHRUB
⊕	SIGN SIGN
⊕	STUMP STUMP
⊕	TEL TELEPHONE POLE
○	TIE TIE
⊕	TSIGN SIGN W/DOUBLE POST
⊕	VCTRL CONTROL VERTICAL
○	WELL WELL
×	WSO WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

**PROPOSED GEOMETRY CODES**

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADIUS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

**UTILITY SYMBOLY**

**UNDERGROUND UTILITIES**

— UT —	UTILITY (GENERIC-UNKNOWN)
— UE —	TELEPHONE
— UE —	ELECTRIC
— UC —	CABLE (TV)
— UEC —	ELECTRIC+CABLE
— UET —	ELECTRIC+TELEPHONE
— UCT —	CABLE+TELEPHONE
— UECT —	ELECTRIC+CABLE+TELEP.
— G —	GAS LINE
— W —	WATER LINE
— S —	SANITARY SEWER (SEPTIC)

**ABOVE GROUND UTILITIES (AERIAL)**

— T —	UTILITY (GENERIC-UNKNOWN)
— E —	TELEPHONE
— C —	ELECTRIC
— C —	CABLE (TV)
— EC —	ELECTRIC+CABLE
— ET —	ELECTRIC+TELEPHONE
— AER E&T —	ELECTRIC+TELEPHONE
— CT —	CABLE+TELEPHONE
— ECT —	ELECTRIC+CABLE+TELEP.
—	UTILITY POLE GUY WIRE

**PROJECT CONSTRUCTION SYMBOLY**

—	CLEAR ZONE
—	PLAN LAYOUT MATCHLINE

**PROJECT CONSTRUCTION FEATURES**

△	TOP OF CUT SLOPE
○	TOE OF FILL SLOPE
⊕	STONE FILL
—	BOTTOM OF DITCH
—	CULVERT PROPOSED
—	STRUCTURE SUBSURFACE
PDF	PROJECT DEMARCATION FENCE
BF	BARRIER FENCE
XXXXXX	TREE PROTECTION ZONE (TPZ)
////	STRIPING LINE REMOVAL
~~~~	SHEET PILES

**CONVENTIONAL BOUNDARY SYMBOLY**

**BOUNDARY LINES**

—	TOWN BOUNDARY LINE
—	COUNTY BOUNDARY LINE
—	STATE BOUNDARY LINE
—	PROPOSED STATE R.O.W. (LIMITED ACCESS)
—	PROPOSED STATE R.O.W.
—	STATE ROW (LIMITED ACCESS)
—	STATE ROW
—	TOWN ROW
—	PERMANENT EASEMENT LINE (P)
—	TEMPORARY EASEMENT LINE (T)
+	SURVEY LINE
—	PROPERTY LINE (P/L)
SR	SLOPE RIGHTS
6f	6F PROPERTY BOUNDARY
4f	4F PROPERTY BOUNDARY
HAZ	HAZARDOUS WASTE

**EPSC LAYOUT PLAN SYMBOLY**

**EPSC MEASURES**

ONNOONNOONNO	FILTER CURTAIN
—	SILT FENCE
—	SILT FENCE WOVEN WIRE
—	CHECK DAM
■	DISTURBED AREAS REQUIRING RE-VEGETATION
⊕	EROSION MATTING

**ENVIRONMENTAL RESOURCES**

—	WETLAND BOUNDARY
—	RIPARIAN BUFFER ZONE
—	WETLAND BUFFER ZONE
—	SOIL TYPE BOUNDARY
—	THREATENED & ENDANGERED SPECIES
HAZ	HAZARDOUS WASTE AREA
—	AGRICULTURAL LAND
—	FISH & WILDLIFE HABITAT
—	FLOOD PLAIN
—	ORDINARY HIGH WATER (OHW)
—	STORM WATER
—	USDA FOREST SERVICE LANDS
—	WILDLIFE HABITAT SUIT/CONN

**ARCHEOLOGICAL & HISTORIC**

—	ARCHEOLOGICAL BOUNDARY
—	HISTORIC DISTRICT BOUNDARY
—	HISTORIC AREA
⊕	HISTORIC STRUCTURE

**CONVENTIONAL TOPOGRAPHIC SYMBOLY**

**EXISTING FEATURES**

—	ROAD EDGE PAVEMENT
—	ROAD EDGE GRAVEL
—	DRIVEWAY EDGE
—	DITCH
—	FOUNDATION
—	FENCE (EXISTING)
—	FENCE WOOD POST
—	FENCE STEEL POST
—	GARDEN
—	ROAD GUARDRAIL
—	RAILROAD TRACKS
—	CULVERT (EXISTING)
—	STONE WALL
—	WALL
—	WOOD LINE
—	BRUSH LINE
—	HEDGE
—	BODY OF WATER EDGE
—	LEDGE EXPOSED

**LEGENDS**

PROJECT NAME: WAITSFIELD-MORETOWN

PROJECT NUMBER: STP SURF(39)

FILE NAME: pl3b168.dgn

PLOT DATE: 06-MAY-2014

PROJECT LEADER: FOWLER

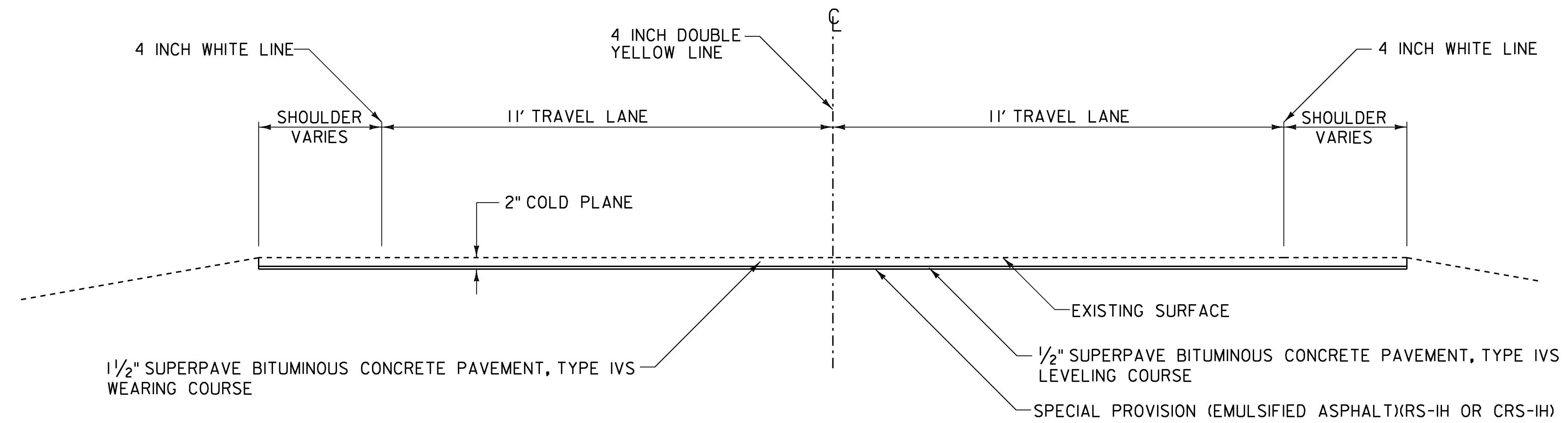
DRAWN BY: BULLOCK

DESIGNED BY: BULLOCK

CHECKED BY: PAVT MGMT

IPARM FILE NAME: pl3b168leg.t

SHEET 2 OF 26



**TYPICAL SECTION**

**VT. RTE. 100 MM 2.422 (STA. 127+88)(WAITSFIELD) – MM 4.135 (STA. 218+33)(WAITSFIELD)**  
**VT. RTE. 17 MM 0.076 (STA. 4+00) – MM 0.215 (STA. 11+32)**

TOWN	MM	MM	LANE TYPICAL		TOWN	MM	MM	LANE TYPICAL
WAITSFIELD	2.422	4.135	SEE LAYOUT SHEETS 1-9		MORETOWN	0.000	0.472	2-11-11-2
WAITSFIELD	4.135	4.477	4-11-11-4		MORETOWN	0.472	1.153	3-11-11-3
WAITSFIELD	4.477	4.598	3-11-11-3		MORETOWN	1.153	1.227	8-12-12-8
WAITSFIELD	4.598	4.926	4-11-11-4		DUXBURY	0.000	0.135	3-11-11-3
WAITSFIELD	4.926	4.971	3-11-11-3		DUXBURY	0.135	0.172	5-12-12-5
WAITSFIELD	4.971	5.077	5-11-11-5		DUXBURY	0.172	5.530	3-11-11-3
WAITSFIELD	5.077	5.409	3-11-11-3		DUXBURY	5.530	6.222	8-12-12-8
WAITSFIELD	5.409	6.276	4-11-11-4					
WAITSFIELD	6.276	6.589	5-11-11-5					
WAITSFIELD	6.589	7.022	9-11-11-9					
WAITSFIELD	7.022	7.084	4-11-11-4					
WAITSFIELD	7.084	7.580	2-11-11-2					

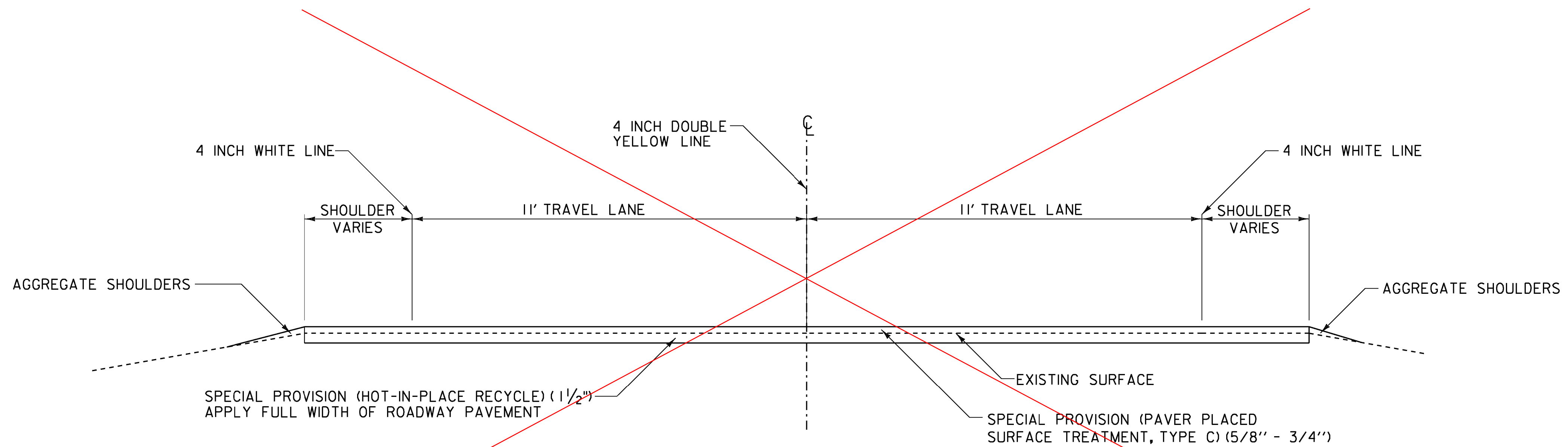
**NOT TO SCALE**

**TYPICAL SECTIONS**

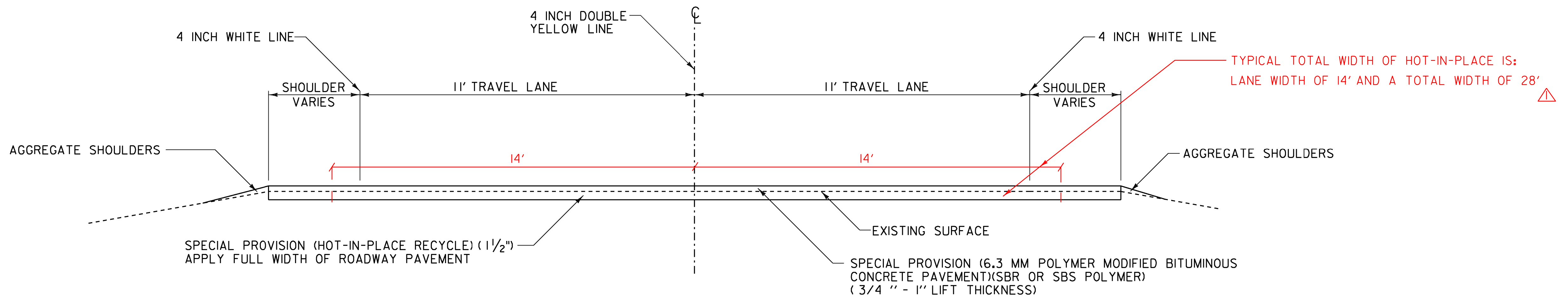
PROJECT NAME: WAITSFIELD-MORETOWN  
 PROJECT NUMBER: STP SURF(39)

FILE NAME: I3B168\p13B168.dgn  
 PROJECT LEADER: FOWLER  
 DESIGNED BY: BULLOCK  
 IPARM FILE NAME: p1368+ypl.i

PLOT DATE: 06-MAY-2014  
 DRAWN BY: BULLOCK  
 CHECKED BY: M. FOWLER  
 SHEET 3 OF 26



**TYPICAL SECTION - ALTERNATE A**  
**PAVER PLACED SURFACE TREATMENT, TYPE C**  
**MM 4.135 (WAITSFIELD) - MM 0.450 (MORETOWN)**



**TYPICAL SECTION - ALTERNATE B**  
**6.3 MM POLYMER MODIFIED BITUMINOUS CONCRETE PAVEMENT (SBR OR SBS POLYMER)**  
**MM 4.135 (WAITSFIELD) - MM 0.450 (MORETOWN)**

**NOTES:**

- PRIOR TO THE PLACEMENT OF THE POLYMER MODIFIED BITUMINOUS CONCRETE PAVEMENT, EMULSIFIED ASPHALT SHALL BE APPLIED TO ALL SPECIAL PROVISION (HOT-IN-PLACE RECYCLE) SURFACES, EXISTING SURFACES, AND ON ALL COLD PLANED SURFACES AT A RATE OF 0.080 GAL/SY (+/- 0.01GAL/SY) OR AS DIRECTED BY THE RESIDENT ENGINEER. EMULSIFIED ASPHALT SHALL BE RS-IH OR CRS-IH PER THE MANUFACTURER'S RECOMMENDATION AND PAID UNDER ITEM 900.683 SPECIAL PROVISION (EMULSIFIED ASPHALT)(RS-IH OR CRS-IH).
- THE GYRATION SPECIFICATION FOR THE 6.3 MM POLYMER - MODIFIED BITUMINOUS CONCRETE PAVEMENT SHALL BE 65. PG BINDER SHALL BE 58-28.

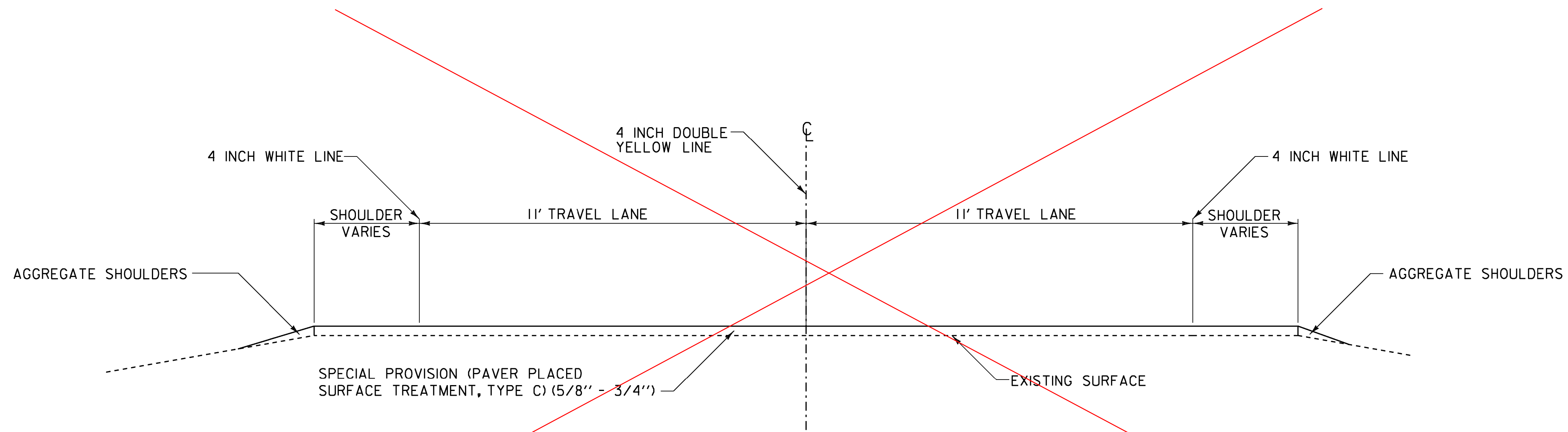
KEY	DATE	BY	REVISION
△	10/21/15	CPP	HOT-IN-PLACE TYP. WIDTH

**TYPICAL SECTIONS**

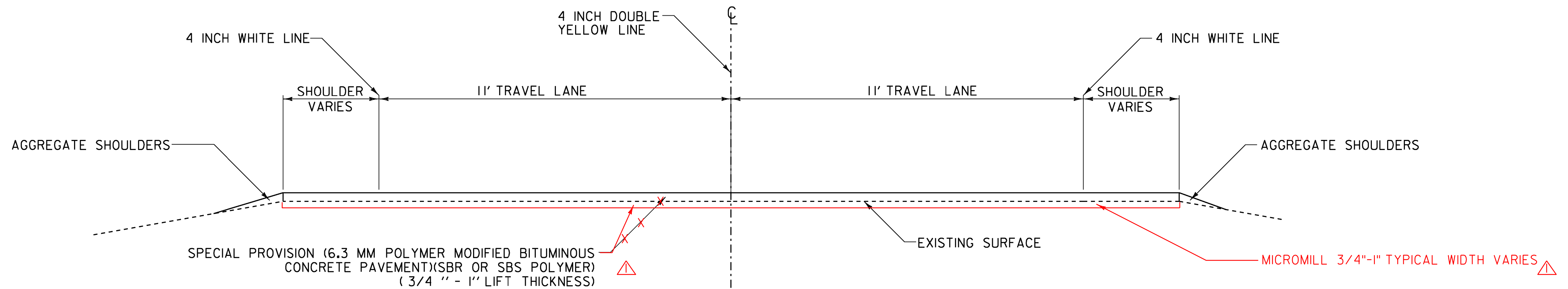
PROJECT NAME: WAITSFIELD-MORETOWN  
 PROJECT NUMBER: STP SURF(39)

FILE NAME: I3BI68\pi3BI68.dgn PLOT DATE: 06-MAY-2014  
 PROJECT LEADER: FOWLER DRAWN BY: BULLOCK  
 DESIGNED BY: BULLOCK CHECKED BY: M. FOWLER  
 IPARM FILE NAME: pi368+yp2.i SHEET 4 OF 26

**NOT TO SCALE**



**TYPICAL SECTION - ALTERNATE A**  
**PAVER PLACED SURFACE TREATMENT, TYPE C**  
**MM 0.450 (MORETOWN) - MM 1.227 (MORETOWN)**



**TYPICAL SECTION - ALTERNATE B**  
**6.3 MM POLYMER MODIFIED BITUMINOUS CONCRETE PAVEMENT (SBR OR SBS POLYMER)**  
**MM 0.450 (MORETOWN) - MM 1.227 (MORETOWN)**

**NOTES:**

1. PRIOR TO THE PLACEMENT OF THE POLYMER MODIFIED BITUMINOUS CONCRETE PAVEMENT, EMULSIFIED ASPHALT SHALL BE APPLIED TO ALL EXISTING PAVEMENT SURFACES AND ON ALL COLD PLANED SURFACES AT A RATE OF 0.080 GAL/SY (+/- 0.01GAL/SY) OR AS DIRECTED BY THE RESIDENT ENGINEER. EMULSIFIED ASPHALT SHALL BE RS-IH OR CRS-IH PER THE MANUFACTURER'S RECOMMENDATION AND PAID UNDER ITEM 900.683 SPECIAL PROVISION (EMULSIFIED ASPHALT)(RS-IH OR CRS-IH).
2. THE GYRATION SPECIFICATION FOR THE 6.3 MM POLYMER - MODIFIED BITUMINOUS CONCRETE PAVEMENT SHALL BE 65. PG BINDER SHALL BE 58-28.

KEY	DATE	BY	REVISION
△	10/21/15	CPP	MICROMILL PER CHANGE ORDER #1

**NOT TO SCALE**

<b>TYPICAL SECTION</b>	PROJECT NAME:	WAITSFIELD-MORETOWN
	PROJECT NUMBER:	STP SURF(39)
	FILE NAME:	I3BI68\p13BI68.dgn
	PLOT DATE:	06-MAY-2014
	PROJECT LEADER:	FOWLER
	DESIGNED BY:	BULLOCK
	IPARM FILE NAME:	p13bi68+yp3.1
	CHECKED BY:	M. FOWLER
		SHEET 5 OF 26

# QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES						TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES						
					ROADWAY	BRIDGE	FULL CE ITEMS	ROADWAY (ALTERNATE A)	ROADWAY (ALTERNATE B)	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
					22650					22650		LF	SHOULDER BERM REMOVAL	203.40	257			
					1					1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	EST.			
					37000					37000		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	277			
					23080					23080		LF	MILLED RUMBLE STRIPS	213.10	228			
					2250					2250		TON	AGGREGATE SHOULDERS	402.12	11			
					1					1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	EST.			
					14150					14150		LB	BITUMINOUS CRACK SEALING, "BLOW AND GO" METHOD	417.20	142			
					4240					4240		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	43			
					1					1		LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-			
					1					1		LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	490.32	-			
						150				150		LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	25			
						100				100		CF	RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE	580.20	EST.			
					15					15		EACH	CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES	604.40	EST.			
					2					2		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	EST.			
					10					10		EACH	CHANGING ELEVATION OF SEWER MANHOLES	604.42	EST.			
					70					70		HR	POWER GRADER RENTAL	608.15	EST.			
					90					90		HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST.			
					180					180		HR	POWER BROOM RENTAL, TYPE I	608.30	EST.			
					70					70		HR	POWER BROOM RENTAL, TYPE II	608.31	EST.			
					70					70		HR	TRUCK RENTAL	608.37	EST.			
					1000					1000		HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.			
					2600					2600		HR	FLAGGERS	630.15	EST.			
							1			1		LS	FIELD OFFICE, ENGINEERS	631.10	-			
							1			1		LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-			
							3000			3000		DL	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.26	-			
					1					1		LS	MOBILIZATION/DEMOBILIZATION	635.11	-			
					1					1		LS	TRAFFIC CONTROL	641.10	-			
					5					5		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-			
					138000					138000		LF	DURABLE 4 INCH WHITE LINE, POLYUREA	646.404	1427			
					135700					135700		LF	DURABLE 4 INCH YELLOW LINE, POLYUREA	646.414	1404			
													BEGIN OPTION AA					
					680					680		LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482	6			
					680					680		LF	DURABLE 24 INCH STOP BAR, POLYUREA	646.484	6			
													END OPTION AA					
													BEGIN OPTION BB					
					194					194		EACH	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	4			
					194					194		EACH	DURABLE LETTER OR SYMBOL, POLYUREA	646.494	4			
													END OPTION BB					

PROJECT NAME:	WAITSFIELD-MORETOWN
PROJECT NUMBER:	STP SURF(39)
FILE NAME: p13b168.dgn	PLOT DATE: 05/05/2014
PROJECT LEADER: M. FOWLER	DRAWN BY: L. BULLOCK
DESIGNED BY: L. BULLOCK	CHECKED BY: M. FOWLER
QUANTITY SHEET #1	SHEET 6 OF 26

# QUANTITY SHEET 2

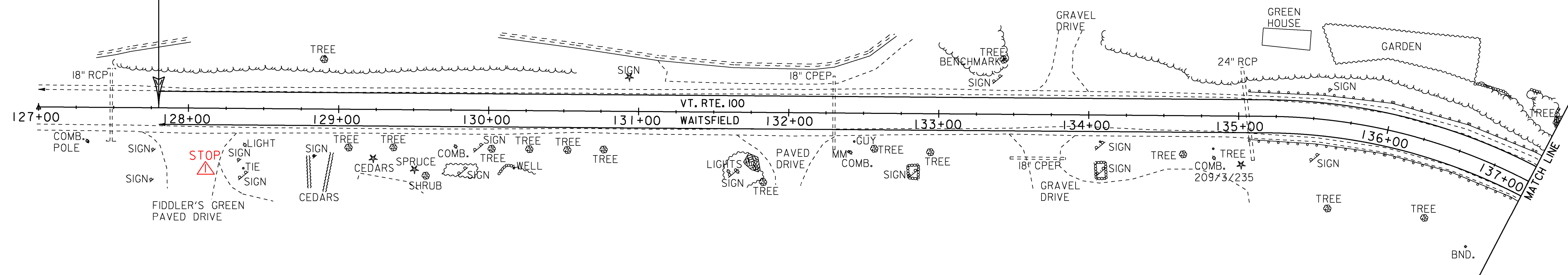
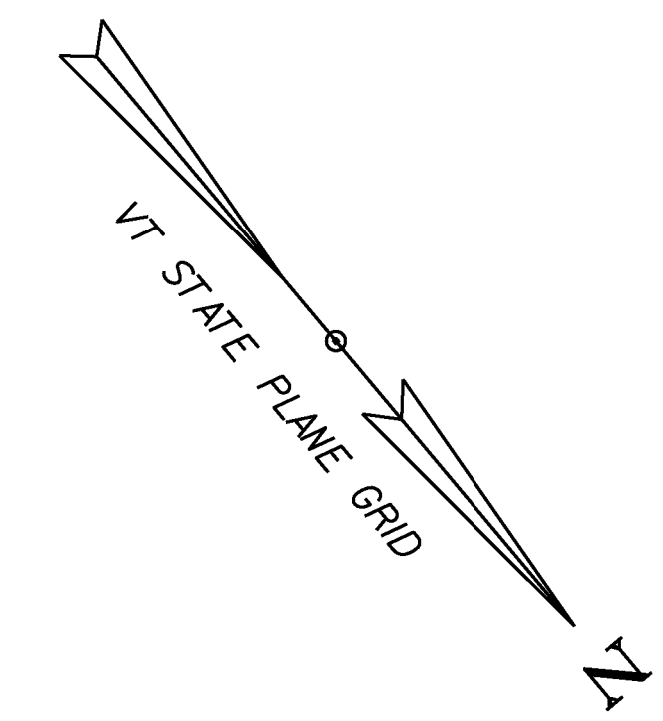
SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
						ROADWAY	BRIDGE	FULL CE ITEMS	ROADWAY (ALTERNATE A)	ROADWAY (ALTERNATE B)	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
														BEGIN OPTION CC					
						190					190		LF	DURABLE CROSSWALK MARKING, THERMOPLASTIC	646.502	15			ALTERNATE A (ZA1)
						190					190		LF	DURABLE CROSSWALK MARKING, POLYUREA	646.504	15			SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C)
														END OPTION CC					
						156000					156000		LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.602	1338	255,516	SY	MAINLINE
						154000					154000		LF	TEMPORARY 4 INCH YELLOW LINE, PAINT	646.612	1510	2,564	SY	ROUNDING
						680					680		LF	TEMPORARY 24 INCH STOP BAR, PAINT	646.682	6	258,080	SY	TOTAL
						194					194		EACH	TEMPORARY LETTER OR SYMBOL, PAINT	646.692	4			ALTERNATE B (ZA2)
						190					190		LF	TEMPORARY CROSSWALK MARKING, PAINT	646.702	15			SPECIAL PROVISION (6.3 MM POLYMER MODIFIED BITUMINOUS CONCRETE PAVEMENT)(SBR OR SBS POLYMER)
						5300					5300		EACH	LINE STRIPING TARGETS	646.76	303	14,905	TON	MAINLINE
						144500					144500		SF	REMOVAL OF EXISTING PAVEMENT MARKINGS	646.85	384	155	TON	ROUNDING
						1					1		LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	-	15,060	TON	TOTAL
						10000					10000		SY	SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)	900.675	EST.			
						69410					69410		SY	SPECIAL PROVISION (HOT-IN-PLACE RECYCLE)	900.675	691			
						50					50		TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE I)	900.680	EST.			
						330					330		CWT	SPECIAL PROVISION (EMULSIFIED ASPHALT)(RS-1H OR CRS-1H)	900.683	4			
						64					64		CWT	SPECIAL PROVISION (FOG SEAL SURFACE TREATMENT)	900.683	0.7			
														BEGIN ALTERNATE ZA1					
									258080		258080		SY	SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C)	900.675				
														END ALTERNATE ZA1					
														BEGIN ALTERNATE ZA2					
										1	1		LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31				
										15060	15060		TON	SPECIAL PROVISION (6.3 MM POLYMER-MODIFIED BITUMINOUS CONCRETE PAVEMENT)(SBR OR SBS POLYMER)	900.680				
										1710	1710		CWT	SPECIAL PROVISION (EMULSIFIED ASPHALT)(RS-1H OR CRS-1H)	900.683				
														END ALTERNATE ZA2					

DURABLE 4 INCH WHITE LINE, POLYUREA  
 TEMPORARY 4 INCH WHITE LINE, PAINT  
 VT. RTE. 100 STA. 127+80 LT. - STA. 137+00 LT.  
 VT. RTE. 100 STA. 127+80 RT. - STA. 137+00 RT.

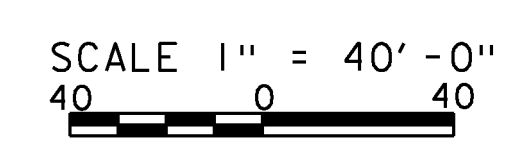
DURABLE 4 INCH YELLOW LINE, POLYUREA  
 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 VT. RTE. 100 STA. 127+80 C/L - STA. 137+00 C/L

DURABLE LETTER OR SYMBOL  
 THERMOPLASTIC  
 ▲ VT RTE.100 STA 128+00 O/S RT

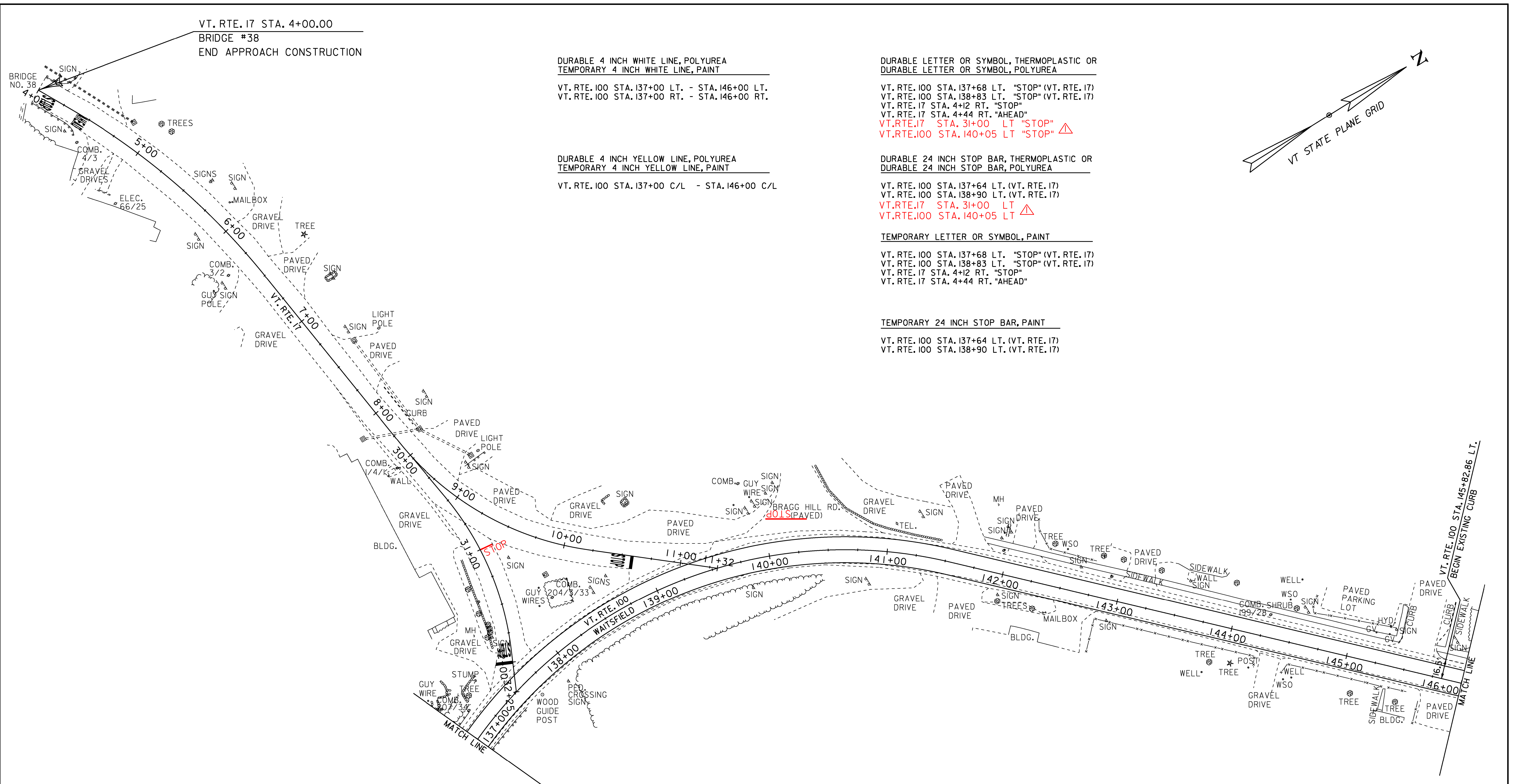
VT. RTE. 100 MM 2.422 (STA. 127+88.00)  
 END WARREN-WAITSFIELD STP 2506(I)  
 BEGIN WAITSFIELD-MORETOWN STP SURF(39)



KEY	DATE	BY	REVISION
▲	10/21/15	CPP	ADDITIONAL DURABLE LETTER OR SYMBOL



<b>PROJECT LAYOUT SHEET #1</b>	PROJECT NAME: WAITSFIELD-MORETOWN							
	PROJECT NUMBER: STP SURF(39)							
	<table border="0"> <tr> <td>FILE NAME: pi3bi68bdr.dgn</td> <td>PLOT DATE: 06-MAY-2014</td> </tr> <tr> <td>PROJECT LEADER: M. FOWLER</td> <td>DRAWN BY: L. BULLOCK</td> </tr> <tr> <td>DESIGNED BY: L. BULLOCK</td> <td>CHECKED BY: M. FOWLER</td> </tr> <tr> <td>pi3bi68lay1.l</td> <td>SHEET 8 OF 26</td> </tr> </table>	FILE NAME: pi3bi68bdr.dgn	PLOT DATE: 06-MAY-2014	PROJECT LEADER: M. FOWLER	DRAWN BY: L. BULLOCK	DESIGNED BY: L. BULLOCK	CHECKED BY: M. FOWLER	pi3bi68lay1.l
FILE NAME: pi3bi68bdr.dgn	PLOT DATE: 06-MAY-2014							
PROJECT LEADER: M. FOWLER	DRAWN BY: L. BULLOCK							
DESIGNED BY: L. BULLOCK	CHECKED BY: M. FOWLER							
pi3bi68lay1.l	SHEET 8 OF 26							



KEY	DATE	BY	REVISION
Δ	10/21/15	CPP	ADDITIONAL DURABLE LETTER OR SYMBOL
Δ	10/21/15	CPP	ADDITIONAL 24 INCH DURABLE STOP BAR

SCALE 1" = 40' - 0"  
0 40

<b>PROJECT LAYOUT SHEET #2</b>	PROJECT NAME: WAITSFIELD-MORETOWN
	PROJECT NUMBER: STP SURF(39)
	FILE NAME: pi3bi68bdr.dgn PROJECT LEADER: M. FOWLER DESIGNED BY: L. BULLOCK pi3bi68lay2.i

DURABLE CROSSWALK MARKING, THERMOPLASTIC OR  
 DURABLE CROSSWALK MARKING, POLYUREA  
 TEMPORARY CROSSWALK MARKING, PAINT

VT. RTE. 100 STA. 155+07 LT. - RT.  
 VT. RTE. 100 STA. 149+93-150+44 LT

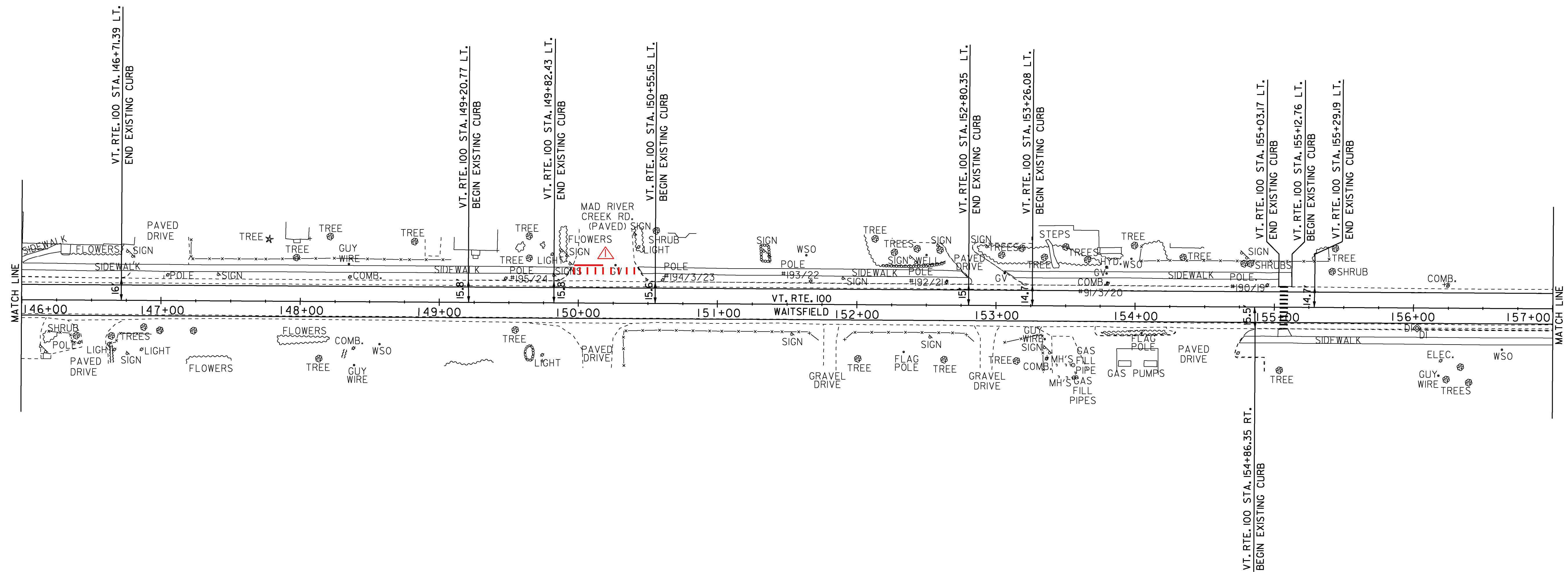
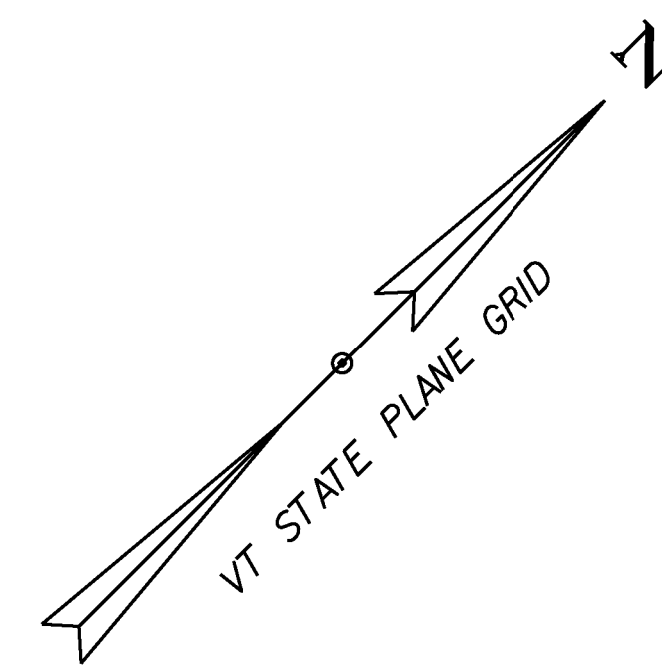
DURABLE 24 INCH STOP BAR, THERMOPLASTIC  
 VT. RTE. 100 STA. 150+18 LT

DURABLE 4 INCH WHITE LINE, POLYUREA  
 TEMPORARY 4 INCH WHITE LINE, PAINT

VT. RTE. 100 STA. 146+00 LT. - STA. 157+00 LT.  
 VT. RTE. 100 STA. 146+00 RT. - STA. 157+00 RT.

DURABLE 4 INCH YELLOW LINE, POLYUREA  
 TEMPORARY 4 INCH YELLOW LINE, PAINT

VT. RTE. 100 STA. 146+00 C/L - STA. 157+00 C/L



KEY	DATE	BY	REVISION
△	10/21/15	CPP	ADDITIONAL 24 INCH DURABLE STOP BAR
△	10/21/15	CPP	ADDITIONAL DURABLE CROSSWALK MARKING

SCALE 1" = 40'-0"  
 40 0 40

**PROJECT LAYOUT SHEET #3**

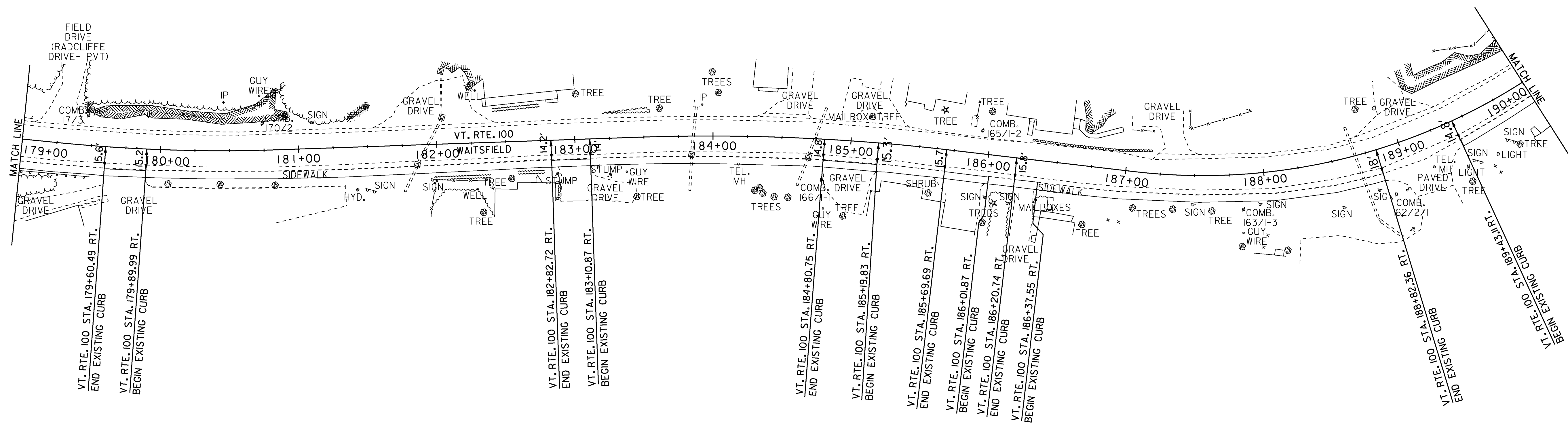
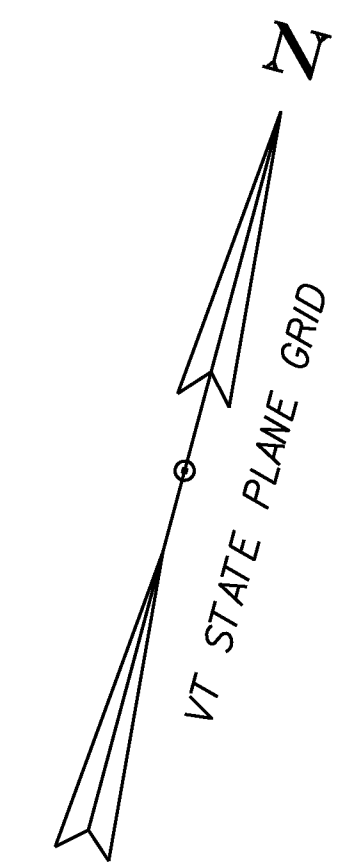
PROJECT NAME: WAITSFIELD-MORETOWN  
 PROJECT NUMBER: STP SURF(39)  
 FILE NAME: pi3bi68bdr.dgn PLOT DATE: 06-MAY-2014  
 PROJECT LEADER: M. FOWLER DRAWN BY: L. BULLOCK  
 DESIGNED BY: L. BULLOCK CHECKED BY: M. FOWLER  
 pi3bi68lay3.i SHEET 10 OF 26





DURABLE 4 INCH WHITE LINE, POLYUREA  
 TEMPORARY 4 INCH WHITE LINE, PAINT  
 VT. RTE. 100 STA. 179+00 LT. - STA. 190+00 LT.  
 VT. RTE. 100 STA. 179+00 RT. - STA. 190+00 RT.

DURABLE 4 INCH YELLOW LINE, POLYUREA  
 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 VT. RTE. 100 STA. 179+00 C/L - STA. 190+00 C/L



VT. RTE. 100 STA. 179+60.49 RT.  
 END EXISTING CURB  
 VT. RTE. 100 STA. 179+89.99 RT.  
 BEGIN EXISTING CURB

VT. RTE. 100 STA. 182+82.72 RT.  
 END EXISTING CURB  
 VT. RTE. 100 STA. 183+10.87 RT.  
 BEGIN EXISTING CURB

VT. RTE. 100 STA. 184+80.75 RT.  
 END EXISTING CURB  
 VT. RTE. 100 STA. 185+19.83 RT.  
 BEGIN EXISTING CURB

VT. RTE. 100 STA. 185+69.69 RT.  
 END EXISTING CURB  
 VT. RTE. 100 STA. 186+01.87 RT.  
 BEGIN EXISTING CURB  
 VT. RTE. 100 STA. 186+20.74 RT.  
 END EXISTING CURB  
 VT. RTE. 100 STA. 186+37.55 RT.  
 BEGIN EXISTING CURB

VT. RTE. 100 STA. 188+82.36 RT.  
 END EXISTING CURB  
 VT. RTE. 100 STA. 189+43.11 RT.  
 BEGIN EXISTING CURB

SCALE 1" = 40'-0"  
 0 40

<b>PROJECT LAYOUT SHEET #6</b>	PROJECT NAME: WAITSFIELD-MORETOWN	PLOT DATE: 06-MAY-2014
	PROJECT NUMBER: STP SURF(39)	DRAWN BY: L. BULLOCK
	FILE NAME: pi3bi68bdr.dgn	CHECKED BY: M. FOWLER
	DESIGNED BY: L. BULLOCK	SHEET 13 OF 26
	pi3bi68loy6.1	

DURABLE CROSSWALK MARKING, THERMOPLASTIC OR  
 DURABLE CROSSWALK MARKING, POLYUREA  
 TEMPORARY CROSSWALK MARKING, PAINT

VT. RTE. 100 STA. 192+60 RT. - STA. 193+03 RT.  
 VT. RTE. 100 STA. 193+13 LT. - RT.

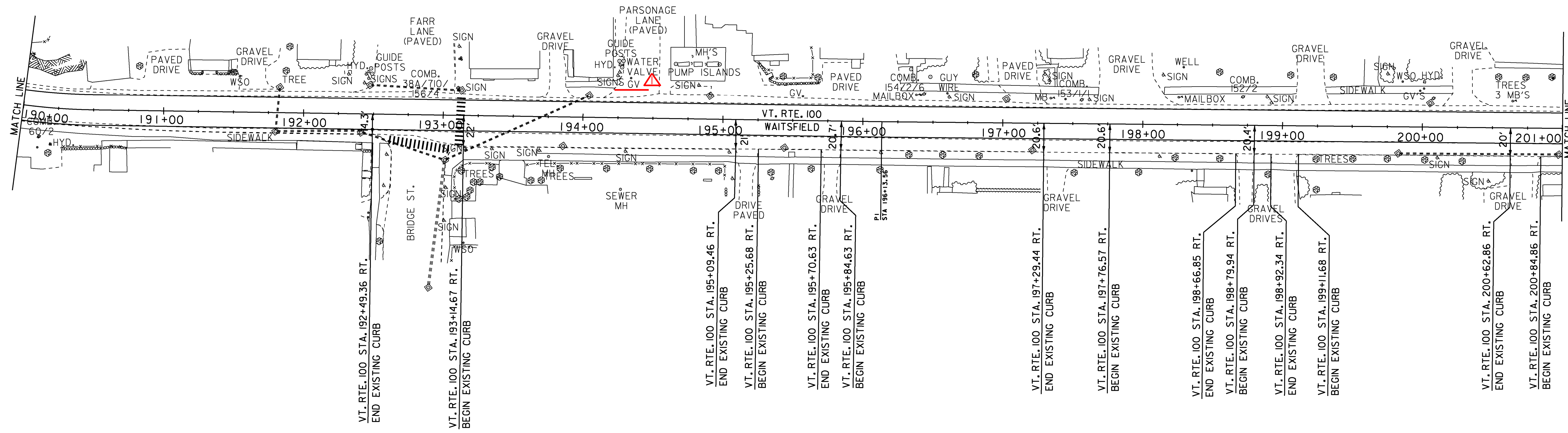
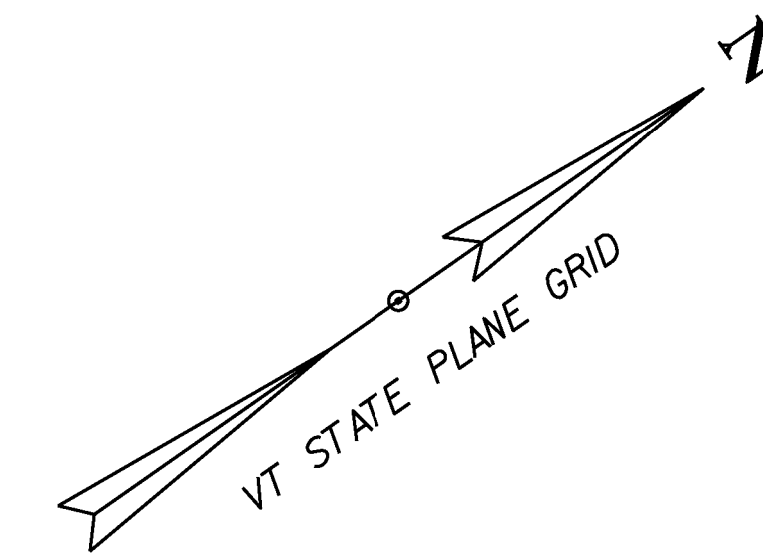
▲ DURABLE 24 INCH STOP BAR, THERMOPLASTIC  
 VT. RTE. 100 STA. 194+30 LT

DURABLE 4 INCH WHITE LINE, POLYUREA  
 TEMPORARY 4 INCH WHITE LINE, PAINT

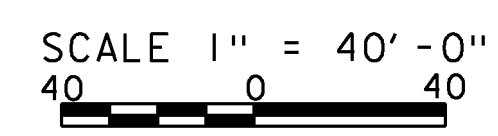
VT. RTE. 100 STA. 190+00 LT. - STA. 201+00 LT.  
 VT. RTE. 100 STA. 190+00 RT. - STA. 201+00 RT.

DURABLE 4 INCH YELLOW LINE, POLYUREA  
 TEMPORARY 4 INCH YELLOW LINE, PAINT

VT. RTE. 100 STA. 190+00 C/L - STA. 201+00 C/L



KEY	DATE	BY	REVISION
<span style="color: red;">▲</span>	10/21/15	CPP	ADDITIONAL 24 INCH DURABLE STOP BAR



<b>PROJECT LAYOUT SHEET #7</b>	PROJECT NAME: WAITSFIELD-MORETOWN
	PROJECT NUMBER: STP SURF(39)
FILE NAME: pi3bi68bdr.dgn	PLOT DATE: 06-MAY-2014
PROJECT LEADER: M. FOWLER	DRAWN BY: L. BULLOCK
DESIGNED BY: L. BULLOCK	CHECKED BY: M. FOWLER
pi3bi68lay7.l	SHEET 14 OF 26

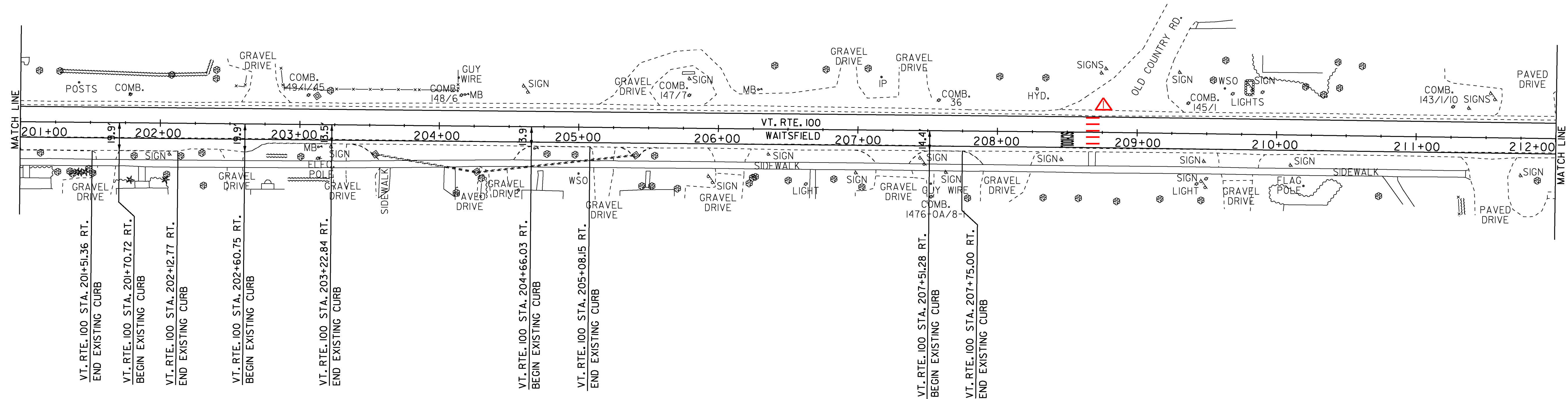
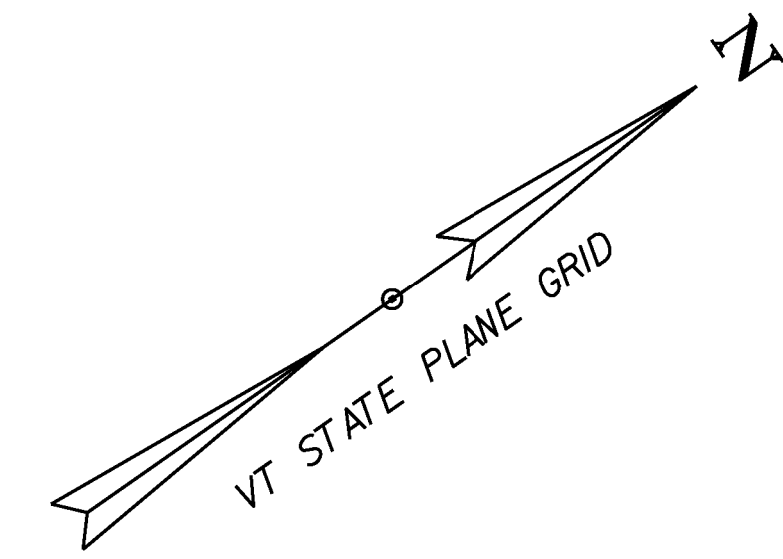
DURABLE LETTER OR SYMBOL, THERMOPLASTIC OR  
 DURABLE LETTER OR SYMBOL, POLYUREA  
 VT. RTE. 100 STA. 208+50 RT "SCHOOL"

DURABLE 4 INCH WHITE LINE, POLYUREA  
 TEMPORARY 4 INCH WHITE LINE, PAINT  
 VT. RTE. 100 STA. 201+00 LT. - STA. 212+00 LT.  
 VT. RTE. 100 STA. 201+00 RT. - STA. 212+00 RT.

TEMPORARY LETTER OR SYMBOL, PAINT  
 VT. RTE. 100 STA. 208+50 RT "SCHOOL"

DURABLE 4 INCH YELLOW LINE, POLYUREA  
 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 VT. RTE. 100 STA. 201+00 C/L - STA. 212+00 C/L

DURABLE CROSSWALK MARKING, THERMOPLASTIC OR  
 DURABLE CROSSWALK MARKING, POLYUREA  
 ▲ VT. RTE. 100 STA. 208+68 LT/RT



KEY	DATE	BY	REVISION
▲	10/21/15	CPP	ADDITIONAL DURABLE CROSSWALK MARKING

SCALE 1" = 40' - 0"  
 40 0 40

**PROJECT LAYOUT SHEET #8**

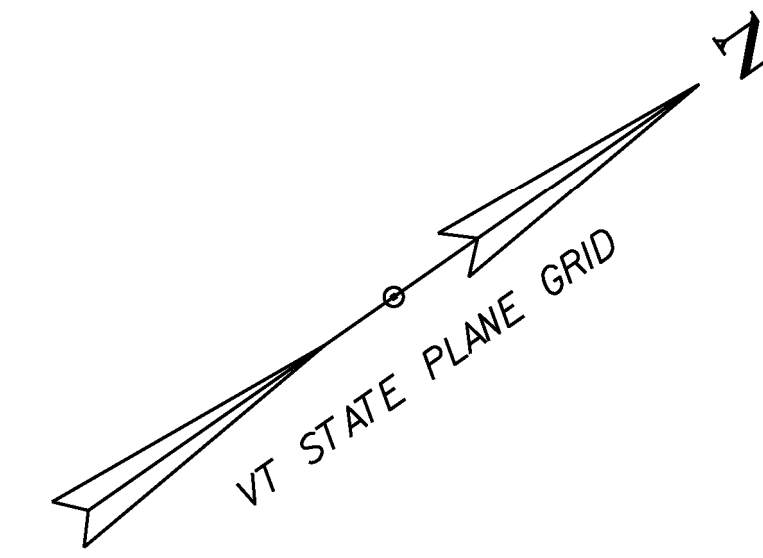
PROJECT NAME: WAITSFIELD-MORETOWN  
 PROJECT NUMBER: STP SURF(39)

FILE NAME: pi3bl68bdr.dgn  
 PROJECT LEADER: M. FOWLER  
 DESIGNED BY: L. BULLOCK  
 pi3bl68lay8.i

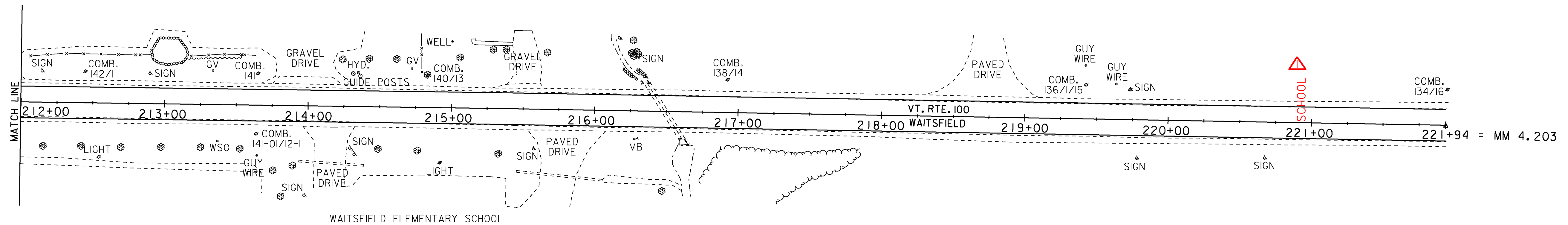
PLOT DATE: 06-MAY-2014  
 DRAWN BY: L. BULLOCK  
 CHECKED BY: M. FOWLER  
 SHEET 15 OF 26

DURABLE 4 INCH WHITE LINE, POLYUREA  
 TEMPORARY 4 INCH WHITE LINE, PAINT  
 VT. RTE. 100 STA. 212+00 LT. - STA. 221+94 LT.  
 VT. RTE. 100 STA. 212+00 RT. - STA. 221+94RT.

DURABLE 4 INCH YELLOW LINE, POLYUREA  
 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 VT. RTE. 100 STA. 212+00 C/L - STA. 221+94 C/L



▲ DURABLE LETTER OR SYMBOL, THERMOPLASTIC  
 VT.RTE.100 STA. 220+90 LT "SCHOOL"

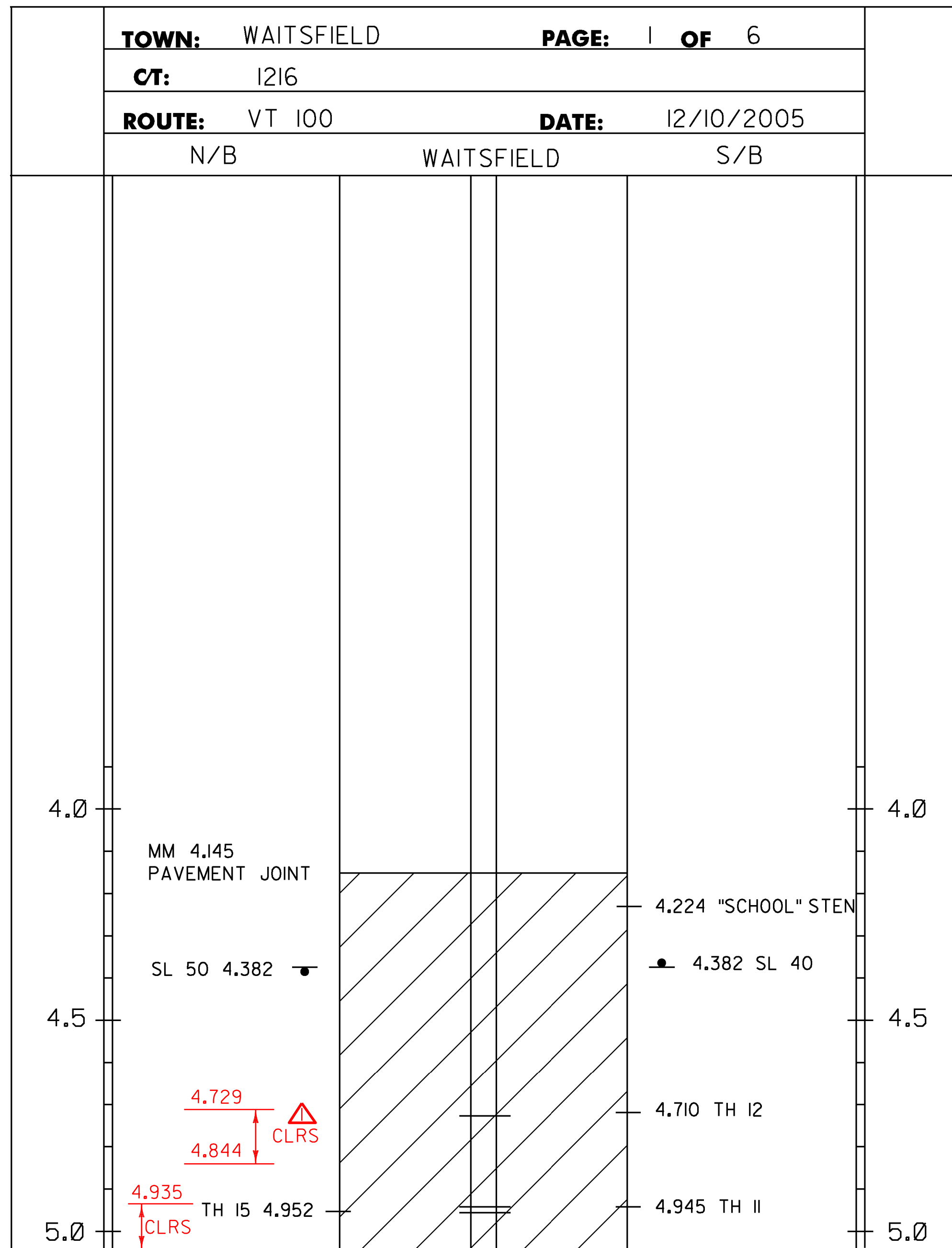


KEY	DATE	BY	REVISION
▲	10/21/15	CPP	ADDITIONAL DURABLE LETTER OR SYMBOL

SCALE 1" = 40'-0"  
 40 0 40

**PROJECT LAYOUT SHEET #9**

PROJECT NAME: WAITSFIELD-MORETOWN  
 PROJECT NUMBER: STP SURF(39)  
 FILE NAME: pi3bi68bdr.dgn PLOT DATE: 06-MAY-2014  
 PROJECT LEADER: M. FOWLER DRAWN BY: L. BULLOCK  
 DESIGNED BY: L. BULLOCK CHECKED BY: M. FOWLER  
 pi3bi68lay9.i SHEET 16 OF 26

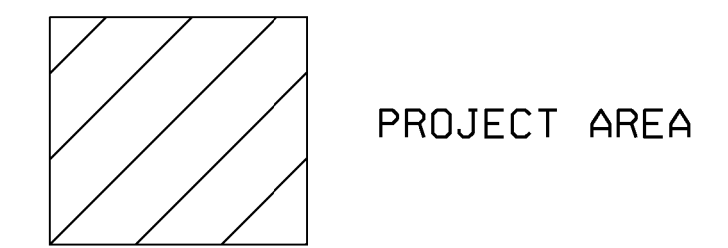
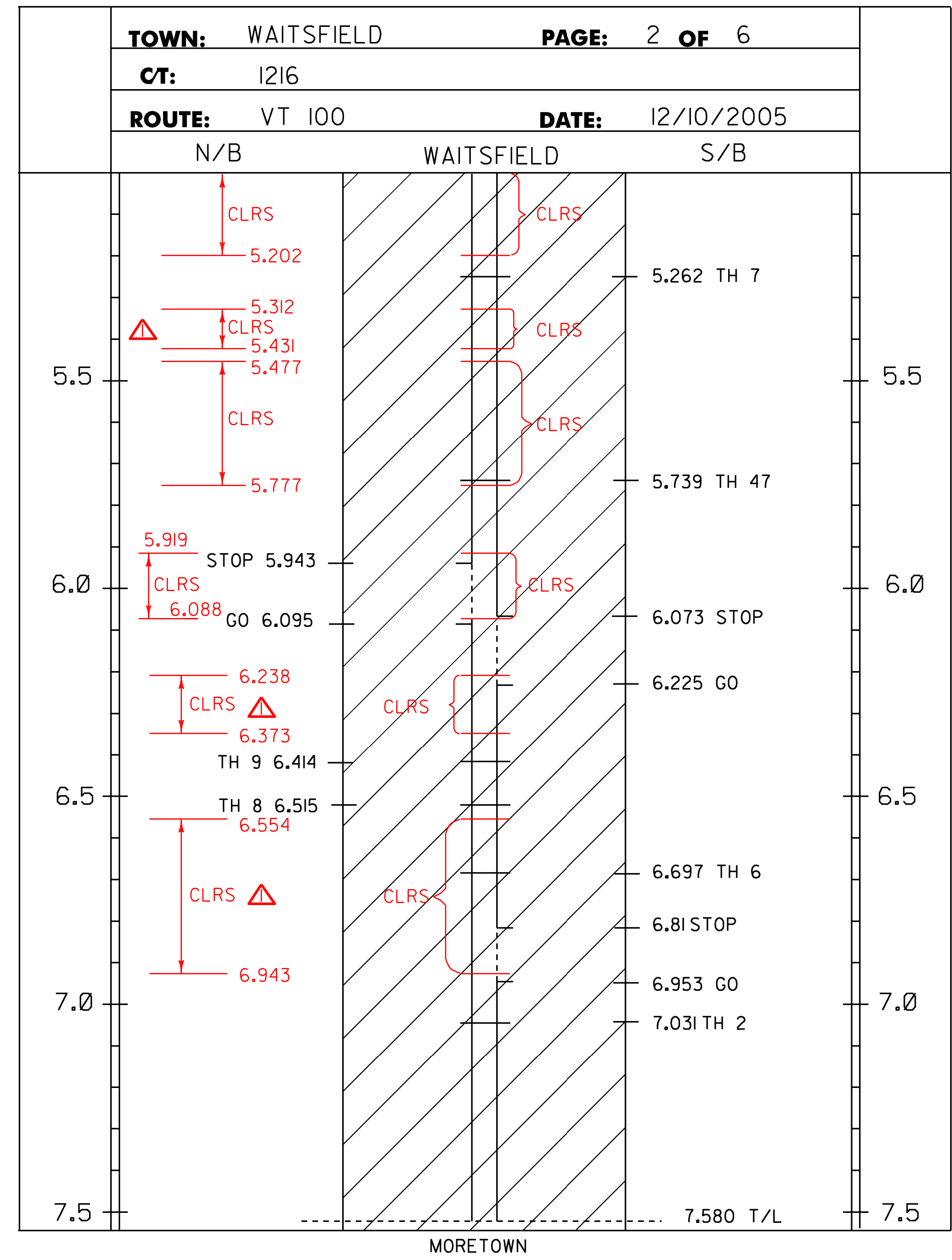


646.404 DURABLE 4 INCH WHITE LINE, POLYUREA  
 646.602 TEMPORARY 4 INCH WHITE LINE, PAINT  
 WAITSFIELD:  
 MM 4.15 - MM 7.580 LT & RT  
 (WITH BREAKS OR RADII AT TOWN HIGHWAYS)

646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA  
 646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 WAITSFIELD:  
 MM 4.15 - MM 5.943 SOLID RT  
 MM 5.943 - MM 6.095 DASH RT  
 MM 6.095 - MM 7.580 SOLID RT  
 MM 4.15 - MM 6.073 SOLID LT  
 MM 6.073 - MM 6.225 DASH LT  
 MM 6.225 - MM 6.810 SOLID LT  
 MM 6.810 - MM 6.953 DASH LT  
 MM 6.953 - MM 7.580 SOLID LT  
 (WITH CENTERLINE BREAKS AT TOWN HIGHWAYS)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC OR  
 646.494 DURABLE LETTER OR SYMBOL, POLYUREA  
 WAITSFIELD:  
 MM 3.989 NB "SCHOOL"  
 MM 4.224 SB "SCHOOL"

646.692 TEMPORARY LETTER OR SYMBOL, PAINT  
 WAITSFIELD:  
 MM 3.989 NB "SCHOOL"  
 MM 4.224 SB "SCHOOL"



**LEGEND**  
 TWBH-THROUGHWAY BEGINS HERE  
 TWEH-THROUGHWAY ENDS HERE  
 SHB-STATE HIGHWAY BEGINS  
 SHE-STATE HIGHWAY ENDS  
 SL-SPEED LIMIT  
 C/4 TH- CLASS 4 TOWN HIGHWAY  
 T/L-TOWN LINE

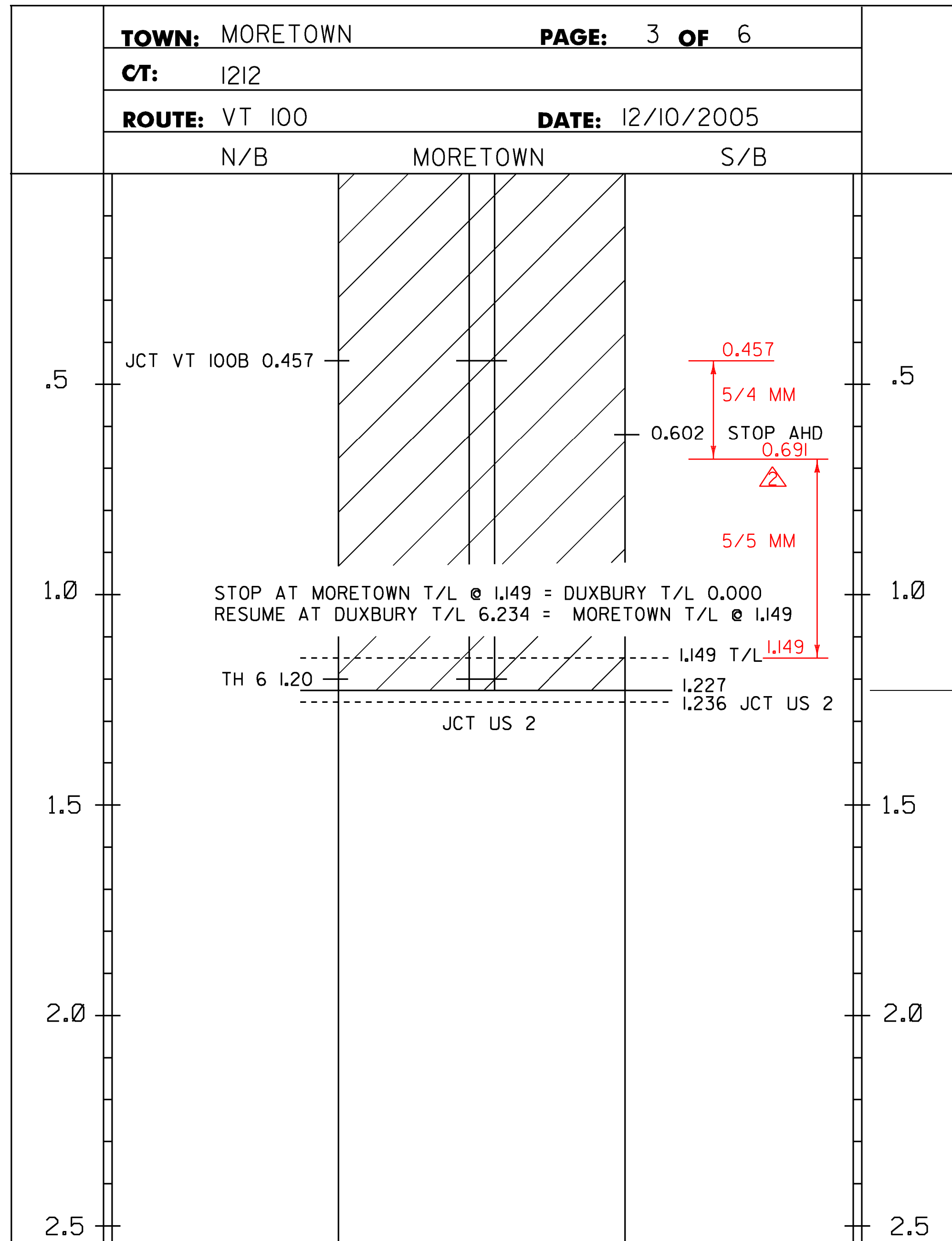
**NOTE:**  
 1. THIS SHEET TO BE USED FOR THE LAYOUT OF ALL CENTERLINE PAVEMENT MARKINGS.  
 THE RESIDENT ENGINEER MAY CONTACT KEITH SWEET, PAVEMENT MARKING SUPERVISOR  
 AT (802) 828-5573 FOR ASSISTANCE LAYING OUT THE CENTERLINE DURING CONSTRUCTION.

**NOT TO SCALE**

KEY	DATE	BY	REVISION
△	10/21/15	CPP	REVISED CLRS LOCATIONS

**PROJECT LAYOUT SHEET #10**

<b>PROJECT NAME:</b> WAITFIELD-MORETOWN	
<b>PROJECT NUMBER:</b> STP SURF(39)	
<b>FILE NAME:</b> I3BI68\pi3BI68.dgn	<b>PLOT DATE:</b> 06-MAY-2014
<b>PROJECT LEADER:</b> FOWLER	<b>DRAWN BY:</b> BULLOCK
<b>DESIGNED BY:</b> BULLOCK	<b>CHECKED BY:</b> M. FOWLER
<b>IPARM FILE NAME:</b> pi3bi68lay10.i	<b>SHEET 17 OF 26</b>



646.404 DURABLE 4 INCH WHITE LINE, POLYUREA  
 646.602 TEMPORARY 4 INCH WHITE LINE, PAINT

**MORETOWN:**  
 MM 0.00 - MM 1.227 LT & RT  
**DUXBURY:**  
 MM 0.000 - MM 2.500 LT & RT  
 (WITH BREAKS OR RADII AT TOWN HIGHWAYS)

646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA  
 646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT

**MORETOWN:**  
 MM 0.000 - MM 1.227 SOLID LT  
 MM 0.000 - MM 1.227 SOLID RT  
**DUXBURY:**  
 MM 0.000 - MM 0.942 SOLID LT  
 MM 0.942 - MM 1.07 DASH LT  
 MM 1.07 - MM 2.500 SOLID LT  
 MM 0.000 - MM 2.500 SOLID RT  
 (WITH CENTERLINE BREAKS AT TOWN HIGHWAYS)

646.702 TEMPORARY CROSSWALK MARKING, PAINT

**DUXBURY:**  
 MM 0.50

END PROJECT

646.502 DURABLE CROSSWALK MARKING, THERMOPLASTIC OR  
 646.504 DURABLE CROSSWALK MARKING, POLYUREA

**DUXBURY:**  
 MM 0.50

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC OR  
 646.484 DURABLE 24 INCH STOP BAR, POLYUREA

**MORETOWN:**  
 MM 0.457 SB  
 MM 1.226 NB

646.682 TEMPORARY 24 INCH STOP BAR, PAINT

**MORETOWN:**  
 MM 0.457 SB  
 MM 1.226 NB

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC OR  
 646.494 DURABLE LETTER OR SYMBOL, POLYUREA

**MORETOWN:**  
 MM 0.458 SB "STOP"  
 MM 0.599 SB "AHEAD"  
 MM 0.605 SB "STOP"  
 MM 1.224 NB "STOP"

**DUXBURY:**  
 MM 0.321 NB "SCHOOL"  
 MM 0.685 SB "SCHOOL"

646.692 TEMPORARY LETTER OR SYMBOL, PAINT

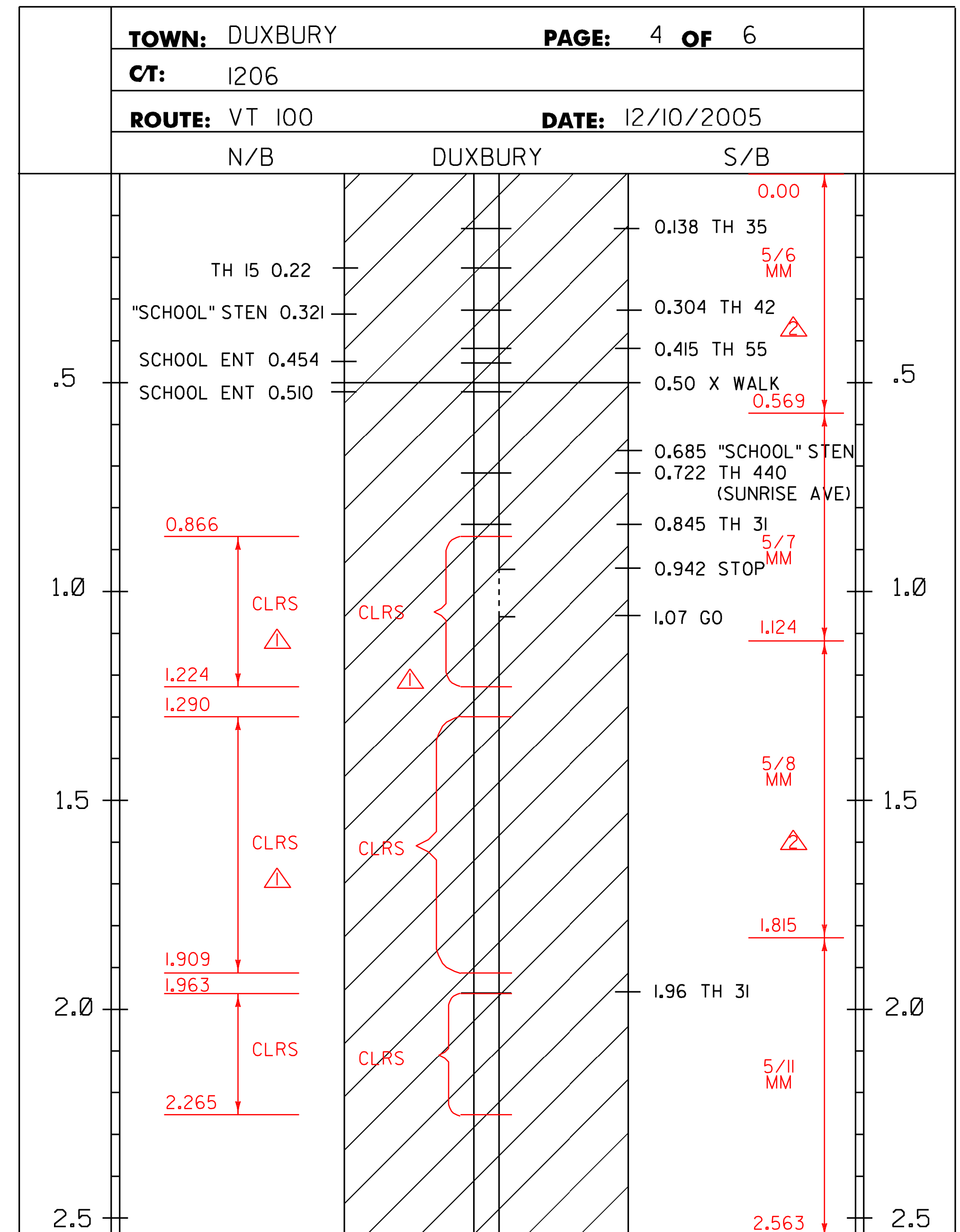
**MORETOWN:**  
 MM 0.458 SB "STOP"  
 MM 0.599 SB "AHEAD"  
 MM 0.605 SB "STOP"  
 MM 1.224 NB "STOP"

**DUXBURY:**  
 MM 0.321 NB "SCHOOL"  
 MM 0.685 SB "SCHOOL"

**LEGEND**

TWBH-THROUGHWAY BEGINS HERE  
 TWEH-THROUGHWAY ENDS HERE  
 SHB-STATE HIGHWAY BEGINS  
 SHE-STATE HIGHWAY ENDS  
 SL-SPEED LIMIT  
 C/4 TH- CLASS 4 TOWN HIGHWAY  
 T/L-TOWN LINE

**NOTE:**  
 1. THIS SHEET TO BE USED FOR THE LAYOUT OF ALL CENTERLINE PAVEMENT MARKINGS.  
 THE RESIDENT ENGINEER MAY CONTACT KEITH SWEET, PAVEMENT MARKING SUPERVISOR  
 AT (802) 828-5573 FOR ASSISTANCE LAYING OUT THE CENTERLINE DURING CONSTRUCTION.

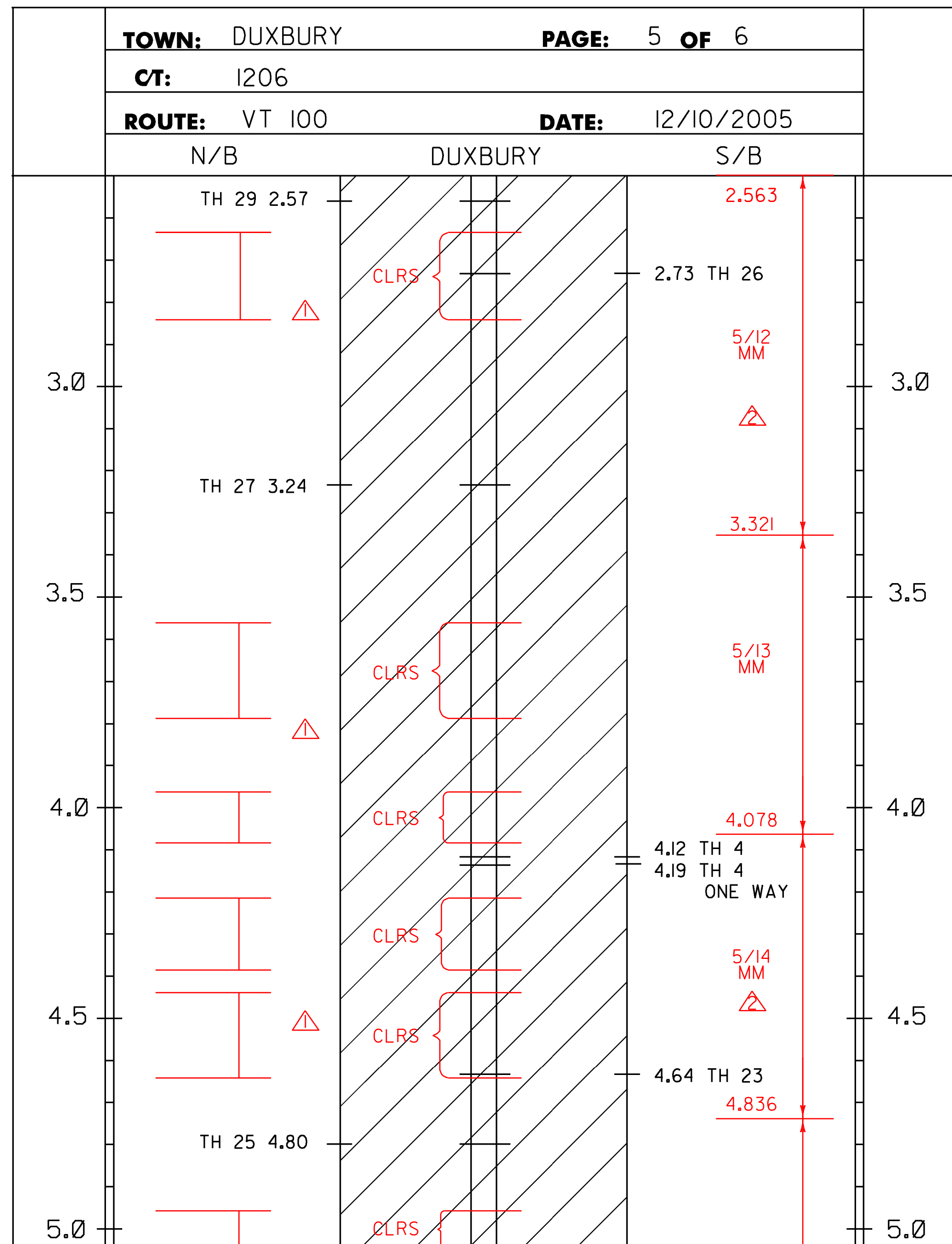


**NOT TO SCALE**

**PROJECT LAYOUT SHEET #11**

KEY	DATE	BY	REVISION
△	10/20/15	CPP	REVISED C RUMBLE STRIP LOCATIONS
△	10/20/15	CPP	NEW MICROMILL LOCATIONS

PROJECT NAME:	WAITSFIELD-MORETOWN
PROJECT NUMBER:	STP SURF(39)
FILE NAME:	I3bl68\pl3bl68.dgn
PROJECT LEADER:	FOWLER
DESIGNED BY:	BULLOCK
IPARM FILE NAME:	pl3bl68lay11.l
PLOT DATE:	06-MAY-2014
DRAWN BY:	BULLOCK
CHECKED BY:	M. FOWLER
SHEET 18	OF 26



646.404 DURABLE 4 INCH WHITE LINE, POLYUREA  
 646.602 TEMPORARY 4 INCH WHITE LINE, PAINT

DUXBURY:  
 MM 2.500 - MM 6.234 LT & RT  
 (WITH BREAKS OR RADII AT TOWN HIGHWAYS)

646.414 DURABLE 4 INCH YELLOW LINE, POLYUREA  
 646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT

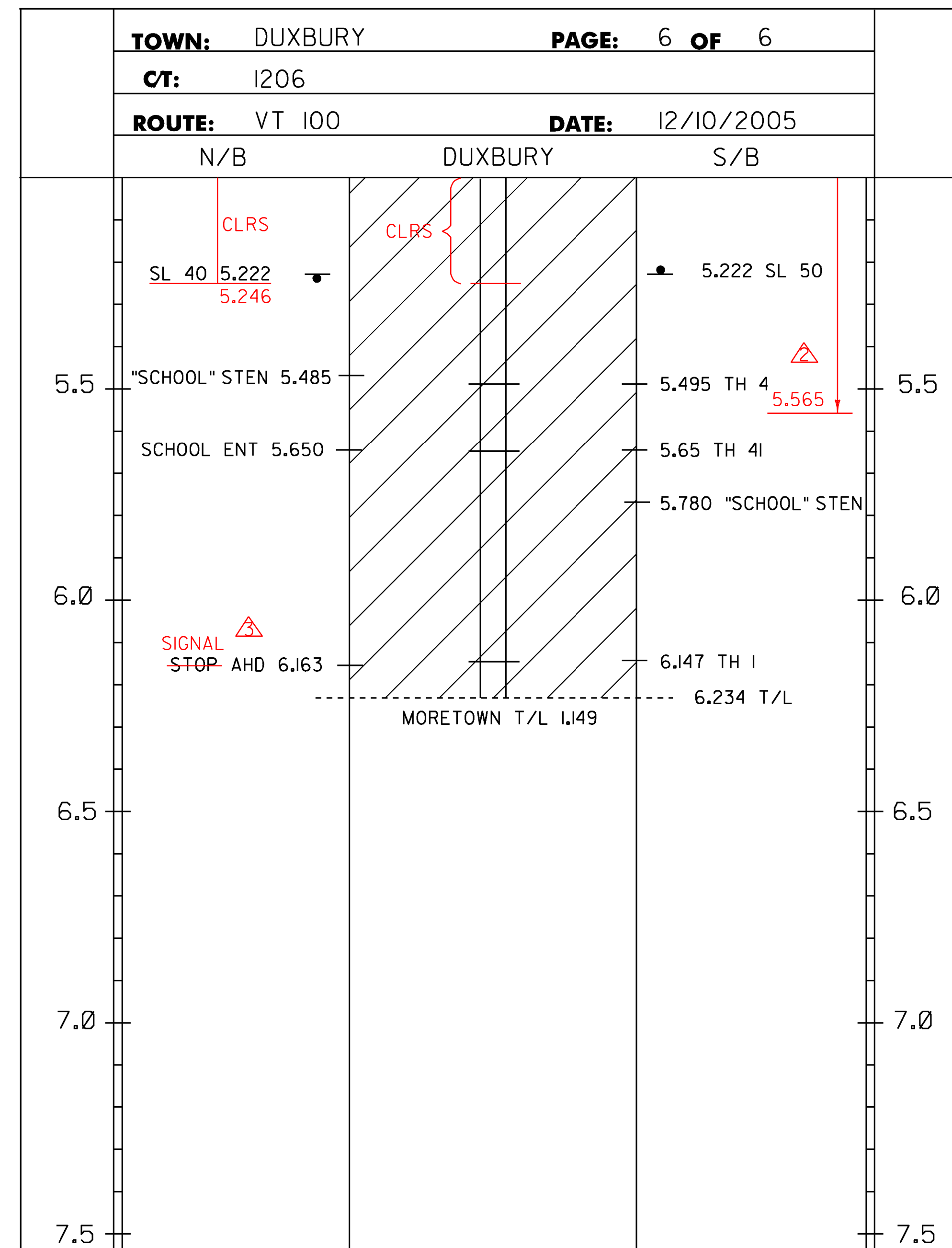
DUXBURY:  
 MM 2.500 - MM 6.234 SOLID LT  
 MM 2.500 - MM 6.234 SOLID RT  
 (WITH CENTERLINE BREAKS AT TOWN HIGHWAYS)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC  
 646.494 DURABLE LETTER OR SYMBOL, POLYUREA

DUXBURY:  
 MM 5.485 NB "SCHOOL"  
 MM 5.780 SB "SCHOOL"  
 MM 6.160 NB "STOP"  
 MM 6.166 NB "AHEAD"

646.692 TEMPORARY LETTER OR SYMBOL, PAINT

DUXBURY:  
 MM 5.485 NB "SCHOOL"  
 MM 5.780 SB "SCHOOL"  
 MM 6.160 NB "STOP"  
 MM 6.166 NB "AHEAD"



**LEGEND**  
 TWBH-THROUGHWAY BEGINS HERE  
 TWEH-THROUGHWAY ENDS HERE  
 SHB-STATE HIGHWAY BEGINS  
 SHE-STATE HIGHWAY ENDS  
 SL-SPEED LIMIT  
 C/4 TH- CLASS 4 TOWN HIGHWAY  
 T/L-TOWN LINE

**NOTE:**  
 1. THIS SHEET TO BE USED FOR THE LAYOUT OF ALL CENTERLINE PAVEMENT MARKINGS.  
 THE RESIDENT ENGINEER MAY CONTACT KEITH SWEET, PAVEMENT MARKING SUPERVISOR  
 AT (802) 828-5573 FOR ASSISTANCE LAYING OUT THE CENTERLINE DURING CONSTRUCTION.

**NOT TO SCALE**

**PROJECT LAYOUT SHEET #12**

KEY	DATE	BY	REVISION
△	10/20/15	CPP	REVISED CLRS LOCATIONS
△	10/20/15	CPP	NEW MICROMILL LOCATIONS
△	10/20/15	CPP	PAVEMENT MARKING SYMBOL/LETTER CHANGE

**PROJECT NAME:** WAITSFIELD-MORETOWN  
**PROJECT NUMBER:** STP SURF(39)  
**FILE NAME:** I3bi68\pi3bi68.dgn **PLOT DATE:** 06-MAY-2014  
**PROJECT LEADER:** FOWLER **DRAWN BY:** BULLOCK  
**DESIGNED BY:** BULLOCK **CHECKED BY:** M. FOWLER  
**IPARM FILE NAME:** pi3bi68lay12.i **SHEET 19 OF 26**

PROJECT NOTES:

1. THE PAVEMENT WEARING COURSE SHALL BE AS SPECIFIED UNDER ALTERNATE NOTES BELOW. THE LEVELING COURSE SHALL BE TYPE IVS, ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT AS SHOWN ON THE TYPICALS, UNLESS DIRECTED BY THE ENGINEER.
2. COLD PLANING SHALL BE COMPLETED ACCORDING TO THE TYPICAL SECTIONS OR AS DENOTED OTHERWISE ON THE PLANS. A FULL DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE PROJECT BEGIN/END AND AT ALL SIDE ROAD APPROACHES AS SHOWN ON THE PROJECT PLANS OR AS OTHERWISE DIRECTED BY THE ENGINEER. ALL JOINTS SHALL BE SAW CUT, INCIDENTAL TO ITEM 210.10 COLD PLANING, BITUMINOUS PAVEMENT.
3. ALL SIDE ROADS ARE TO BE PAVED 25 FEET FROM THE EDGE OF MAINLINE UNLESS OTHERWISE SPECIFIED IN THE PLANS OR DIRECTED BY THE ENGINEER.
4. GRASS GROWING ADJACENT TO THE PAVEMENT OR THROUGH CRACKS IN THE PAVEMENT, WHICH MAY HAMPER THE PLACEMENT OF NEW BITUMINOUS CONCRETE PAVEMENT, SHALL BE REMOVED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK WILL NOT BE MADE DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
5. ITEM 604.40 CHANGING ELEVATIONS OF DROP INLETS, CATCH BASINS, OR MANHOLES, ITEM 604.412 REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I, AND ITEM 604.42 CHANGING ELEVATIONS OF SEWER MANHOLES ARE ESTIMATED ITEMS AND SHALL BE PERFORMED AT LOCATIONS SHOWN ON THE LAYOUT SHEETS OR AS DIRECTED BY THE ENGINEER. ALL DI'S SHALL BE RAISED SUCH THAT THE NEW GRATE ELEVATION MATCHES WITH THE SURROUNDING TERRAIN.
6. ESTIMATED QUANTITIES OF ITEM 608.15 POWER GRADER RENTAL AND ITEM 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I HAVE BEEN INCLUDED FOR REMOVING BUILT UP SAND, SOD, ETC ADJACENT TO THE SHOULDER IN NON-GUARDRAIL AREAS, TO ALLOW FREE DRAINAGE OFF THE SHOULDER.
7. ITEM 646.76 LINE STRIPING TARGETS SHALL BE PLACED AS OUTLINED IN THE VAOT STANDARD SPECIFICATIONS FOR CONSTRUCTION FOR THE PLACEMENT OF THE WHITE EDGE LINES AND YELLOW CENTERLINES.
8. ALL NECESSARY SURFACE PREPARATION WHERE APPLICABLE INVOLVING PATCHING, POTHOLE REPAIR, AND CRACK SEALING SHALL BE PERFORMED PRIOR TO APPLICATION OF ANY SPOT LEVELING OR PLACEMENT OF THE WEARING COURSE. ALL CRACKS GREATER THAN 0.10 INCH AND UP TO 1.0 INCH IN WIDTH SHALL BE SEALED USING THE "BLOW AND GO" FILL METHOD. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE PAID FOR UNDER ITEM 417.20, BITUMINOUS CRACK SEALING, "BLOW AND GO" METHOD. THE PATCHING OF ALL CRACKS GREATER THAN 1.0 INCH AND ALL OTHER PATCHING AND POTHOLE REPAIR SHALL BE COMPLETED USING BITUMINOUS CONCRETE PAVEMENT IN ACCORDANCE WITH ITEM 900.680 SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE I). AN ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN INCLUDED TO COVER ALL COSTS ASSOCIATED WITH THIS WORK.
9. ALL EXISTING PAVEMENT MARKINGS SHALL BE REMOVED PRIOR TO ANY CRACK SEALING BEING PERFORMED AND PRIOR TO APPLYING THE PAVER PLACED SURFACE TREATMENT. ALL LANE DELINEATION IS TO BE MAINTAINED DURING CONSTRUCTION BY THE USE OF LINE STRIPING TARGETS OR TEMPORARY PAINT. REMOVAL OF EXISTING PAVEMENT MARKINGS TO BE PAID UNDER ITEM 646.85.
10. A 50' COLD PLANED WEDGE SHALL BE CONSTRUCTED AT THE PROJECT BEGIN AND PROJECT END, AS DIRECTED BY THE ENGINEER. ANY SAWCUTTING AT BUTT JOINTS SHALL BE PAID INCIDENTAL TO ITEM 210.10, COLD PLANING, BITUMINOUS PAVEMENT. THE CONTRACTOR SHALL USE CAUTION WHEN COLD PLANING AND PAVING OPERATIONS OCCUR ADJACENT TO EXISTING DROP INLETS OR CATCH BASINS. ANY DAMAGE WHICH OCCURS TO THESE DRAINAGE STRUCTURES AS A RESULT OF THESE OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE STATE OF VERMONT.
11. IF IT IS DETERMINED IN AREAS ALONG THE BASE OF THE GUARDRAIL THAT WINTER SAND AND OTHER DEBRIS HAS ACCUMULATED SUFFICIENTLY TO AFFECT PROPER CRACK SEALING AND RELATED PATCHING AND POTHOLE REPAIR TREATMENTS, THIS MATERIAL SHALL BE REMOVED PRIOR TO CRACK SEALING, PATCHING, AND POTHOLE REPAIR AS DIRECTED BY THE ENGINEER. A QUANTITY FOR ITEM 203.40, SHOULDER BERM REMOVAL, HAS BEEN INCLUDED TO COVER THE COSTS ASSOCIATED WITH THIS WORK.
12. PRIOR TO THE PLACEMENT OF THE POLYMER MODIFIED BITUMINOUS CONCRETE PAVEMENT, EMULSIFIED ASPHALT SHALL BE APPLIED TO ALL EXISTING PAVEMENT SURFACES AND ON ALL COLD PLANED SURFACES AT A RATE OF 0.080 GAL/SY (+/- 0.01 GAL/SY) OR AS DIRECTED BY THEP ENGINEER. EMULSIFIED ASPHALT SHALL BE RS-1H OR CRS-1H PER THE MANUFACTURER'S RECOMMENDATION AND PAID UNDER ITEM 900.683 SPECIAL PROVISION (EMULSIFIED ASPHALT)(RS-1H OR CRS-1H). TACK COAT APPLICATION RATE ON ALL OTHER PAVED SURFACES SHALL BE 0.025 TO 0.040 GAL/SY OF RS1-H OR CRS1-H.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE ENGINEER ACTUAL YIELD FOR THE RECYCLING AGENT USAGE FOLLOWING A DAY'S PRODUCTION TO ENSURE MIX DESIGN TOLERANCES ARE MET.
14. HOT-IN-PLACE RECYCLING DEPTH TOLERANCES = +/- ¼ " TREATMENT DEPTH.

**PROJECT  
NOTES**

PROJECT NAME: WAITSFIELD-MORETOWN  
PROJECT NUMBER: STP SURF(39)

FILE NAME: p13b168.dgn	PLOT DATE: 16-MAY-2014
PROJECT LEADER: M. FOWLER	DRAWN BY: L. BULLOCK
DESIGNED BY: L. BULLOCK	CHECKED BY: M. FOWLER
IPARM FILE NAME: 13b168pnl.t	SHEET 20 OF 26

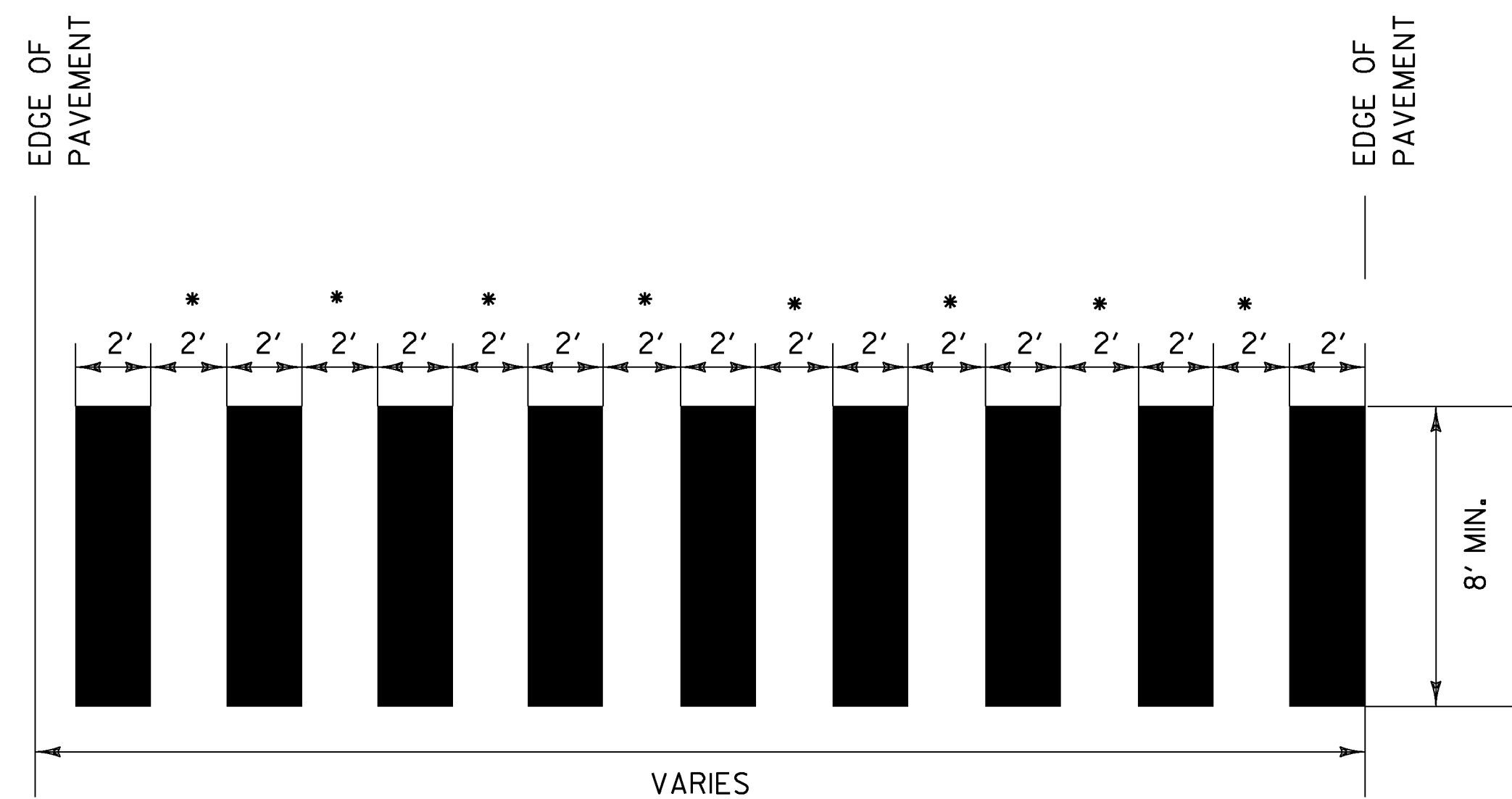
PROJECT NOTES (CONTINUED):

15. ALL RESIDENTIAL AND COMMERCIAL DRIVES, AND PULL-OUTS SHALL RECEIVE A FOUR FOOT PAVED APRON, AND ALL FIELD DRIVES SHALL RECEIVE A TWO FOOT PAVED APRON. BITUMINOUS CONCRETE PAVEMENT AT PUBLIC AND/OR PERMITTED DRIVES WHICH IS INSTALLED BY HAND SHALL BE PAID FOR UNDER ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES). BITUMINOUS CONCRETE MATERIAL PLACED BY MECHANICAL METHODS AT THESE LOCATIONS IS EXCLUDED. ALL OTHER BITUMINOUS MATERIALS PLACED WITHIN THE PROJECT LIMITS, WHETHER BY HAND OR MECHANICAL METHODS, SHALL BE PAID UNDER THE APPROPRIATE CONTRACT PAY ITEM FOR BITUMINOUS CONCRETE PAVEMENT.

**PROJECT  
NOTES**

PROJECT NAME: WAITSFIELD-MORETOWN  
PROJECT NUMBER: STP SURF(39)

FILE NAME: p13b168.dgn	PLOT DATE: 16-MAY-2014
PROJECT LEADER: M. FOWLER	DRAWN BY: L. BULLOCK
DESIGNED BY: L. BULLOCK	CHECKED BY: M. FOWLER
IPARM FILE NAME: 13b168pn2.1	SHEET 21 OF 26



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

**BLOCK PATTERN CROSSWALK DETAIL**

SEE PROJECT LAYOUT SHEETS 1- 12 FOR LOCATIONS.  
 ALL BLOCK PATTERN CROSS WALKS SHALL BE  
 INSTALLED PARALLEL WITH WHEEL PATHS.

NOT TO SCALE

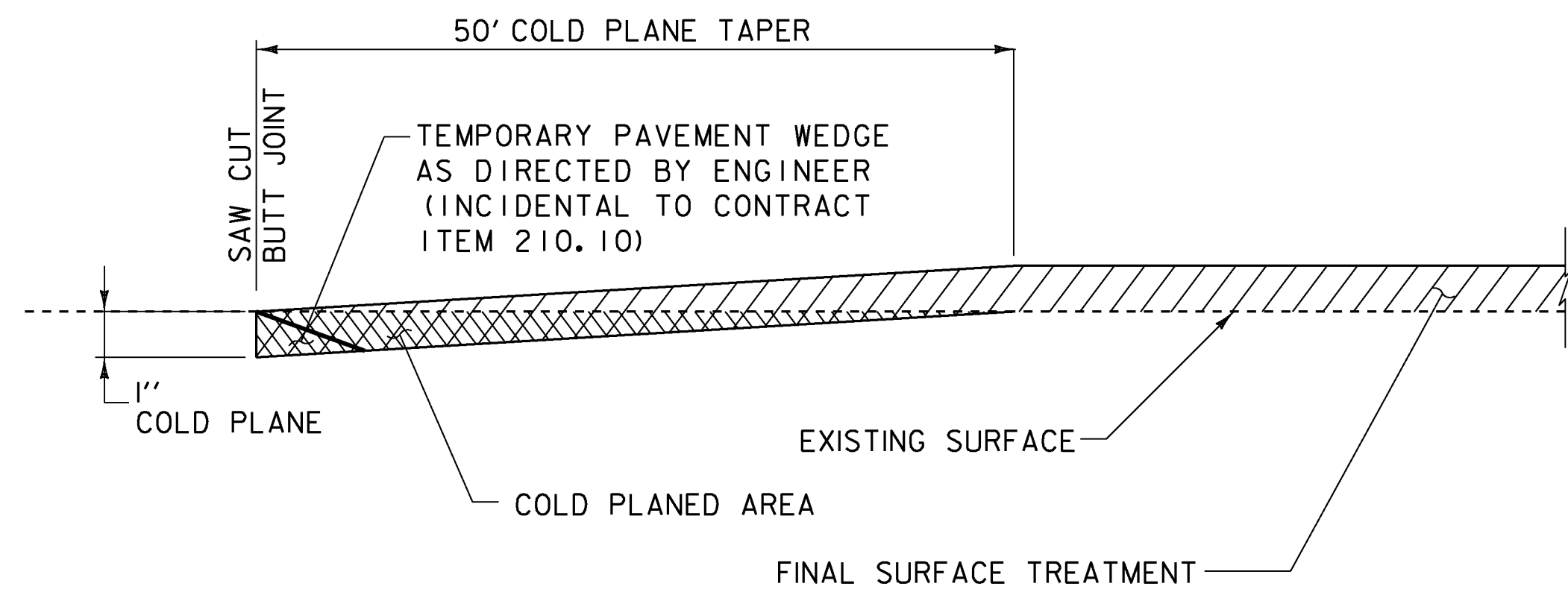
**PAVEMENT  
MARKING  
DETAILS**

PROJECT NAME: WAITSFIELD-MORETOWN

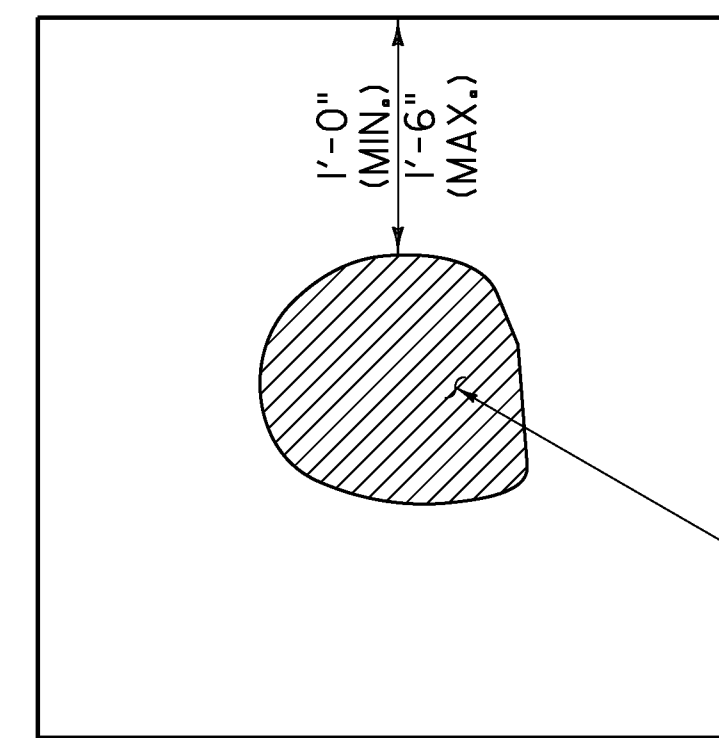
PROJECT NUMBER: STP SURF(39)

FILE NAME: pl3bl68.dgn  
 PROJECT LEADER: M. FOWLER  
 DESIGNED BY: PVT. MGT.  
 pl3bl68pmd.l

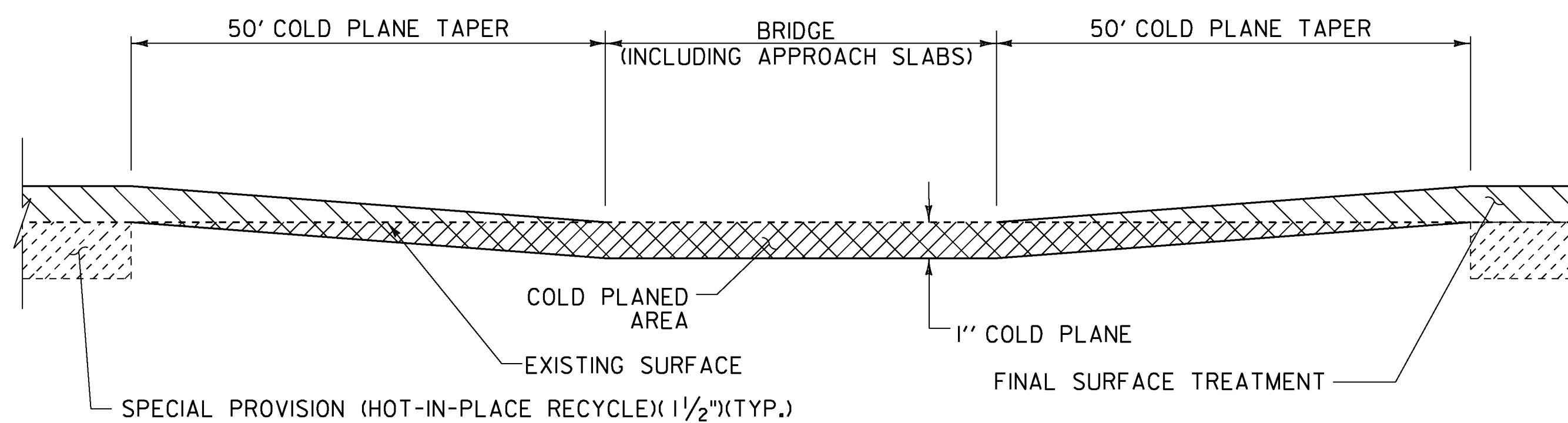
PLOT DATE: 06-MAY-2014  
 DRAWN BY: PVT. MGT.  
 CHECKED BY: PVT. MGT.  
 SHEET 22 OF 26



**COLD PLANE DETAIL AT BEGINEND PROJECT AND AT ENDS VT RTE. 17 & 100B**



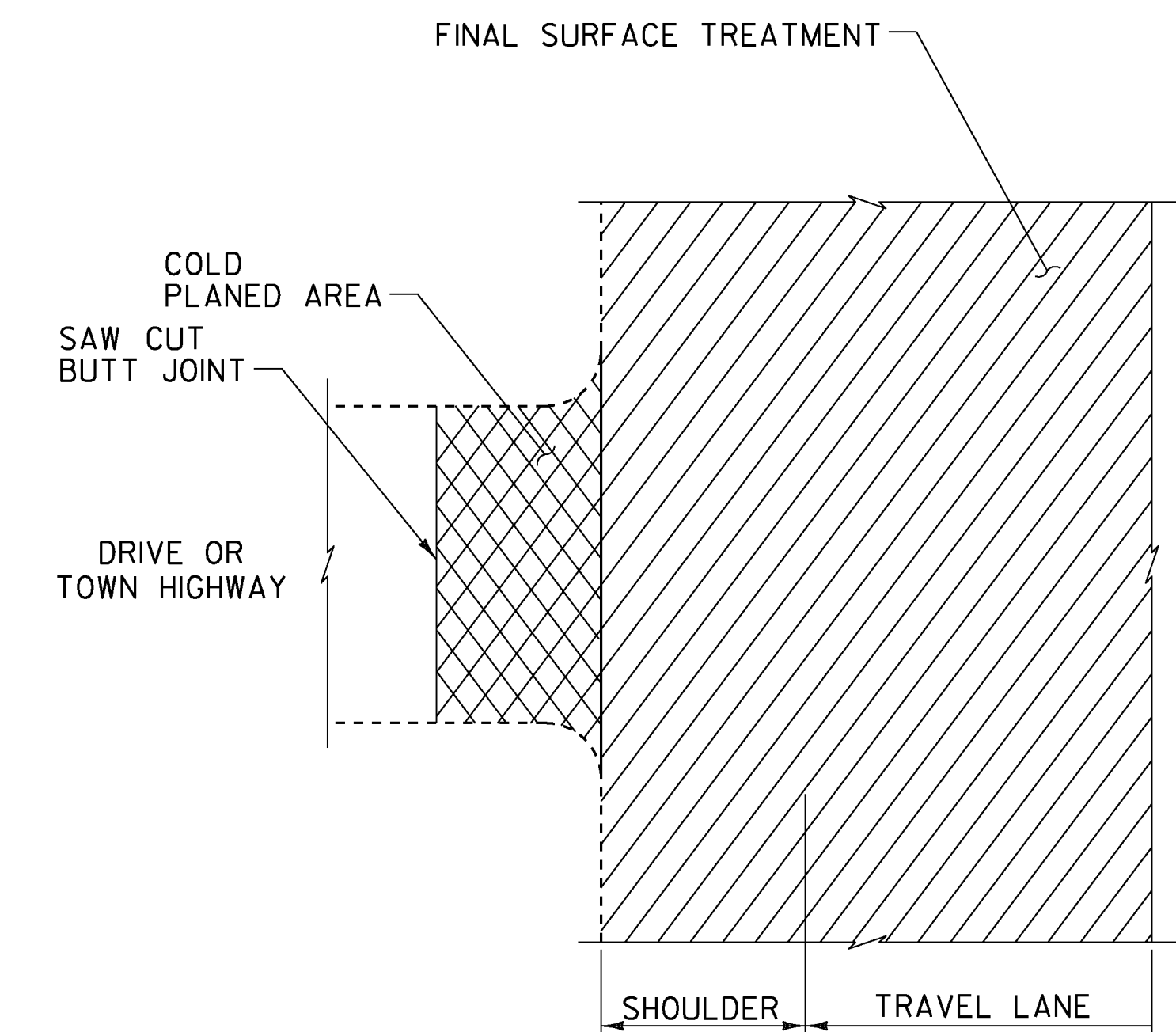
**TYPICAL - POT HOLE REPAIR**  
NOT TO SCALE



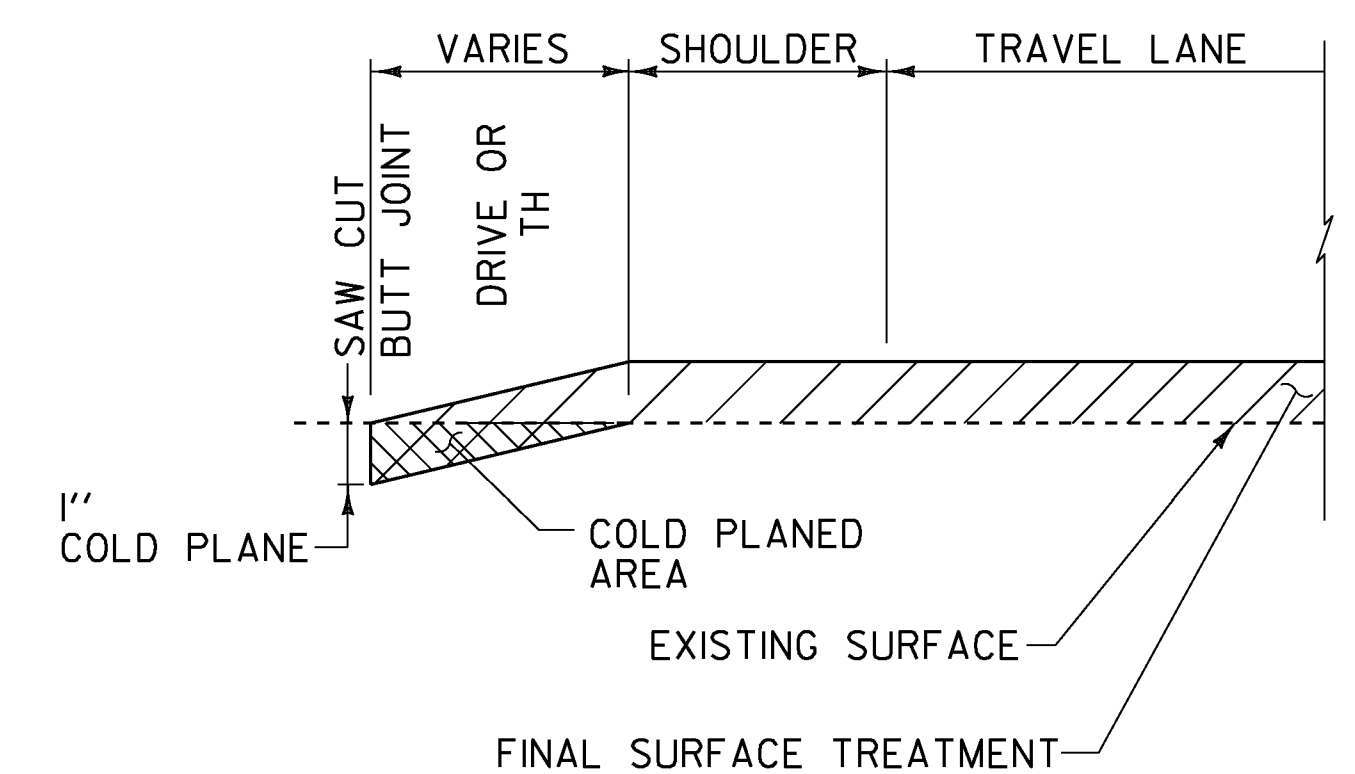
**BRIDGE COLD PLANE DETAIL**

**NOTES:**

1. REFER TO BRIDGE JOINT DETAIL SHEET AND STRUCTURES DETAIL SD-516.10. ALL NEW JOINTS TO BE PAID FOR UNDER ITEM 516.10, "BRIDGE EXPANSION JOINT, ASPHALTIC PLUG."
2. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGING DRAINAGE STRUCTURES AND EXPANSION JOINTS. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE SOLE EXPENSE OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID THE ACCUMULATION OF DEBRIS IN THE DRAINAGE STRUCTURES LOCATED AT CURB LINE AND IN THE EXPANSION JOINTS. THE CONTRACTOR SHALL EXAMINE THESE BRIDGE FEATURES ON A DAILY BASIS TO ENSURE THAT DEBRIS HAS NOT ACCUMULATED. ANY DEBRIS WHICH IS PRESENT SHALL BE REMOVED BY THE CONTRACTOR AT NO COST TO THE STATE.
4. THE CONTRACTOR SHALL USE CAUTION WHEN COLD PLANING AND PAVING OPERATIONS OCCUR ON BRIDGE DECKS. SHOULD ANY DAMAGE OCCUR TO THE DECK OR MEMBRANE AS A RESULT OF THESE OPERATIONS THE ENGINEER SHALL CONTACT THE VTRANS CONSTRUCTION STRUCTURES ENGINEER TO PROVIDE AN ASSESSMENT OF THE DAMAGE AND RECOMMEND ANY NECESSARY REPAIRS. THE CONSTRUCTION STRUCTURES ENGINEER WILL ALSO DETERMINE IF THE DAMAGE WAS AVOIDABLE. IF THE CONTRACTOR IS DETERMINED BY THE RESIDENT ENGINEER TO BE AT FAULT FOR THE DAMAGE, THE RECOMMENDED REPAIRS SHALL BE COMPLETED BY THE CONTRACTOR AT NO COST TO THE STATE.



**COLD PLANE DETAILS AT DRIVES & TOWN HIGHWAYS**

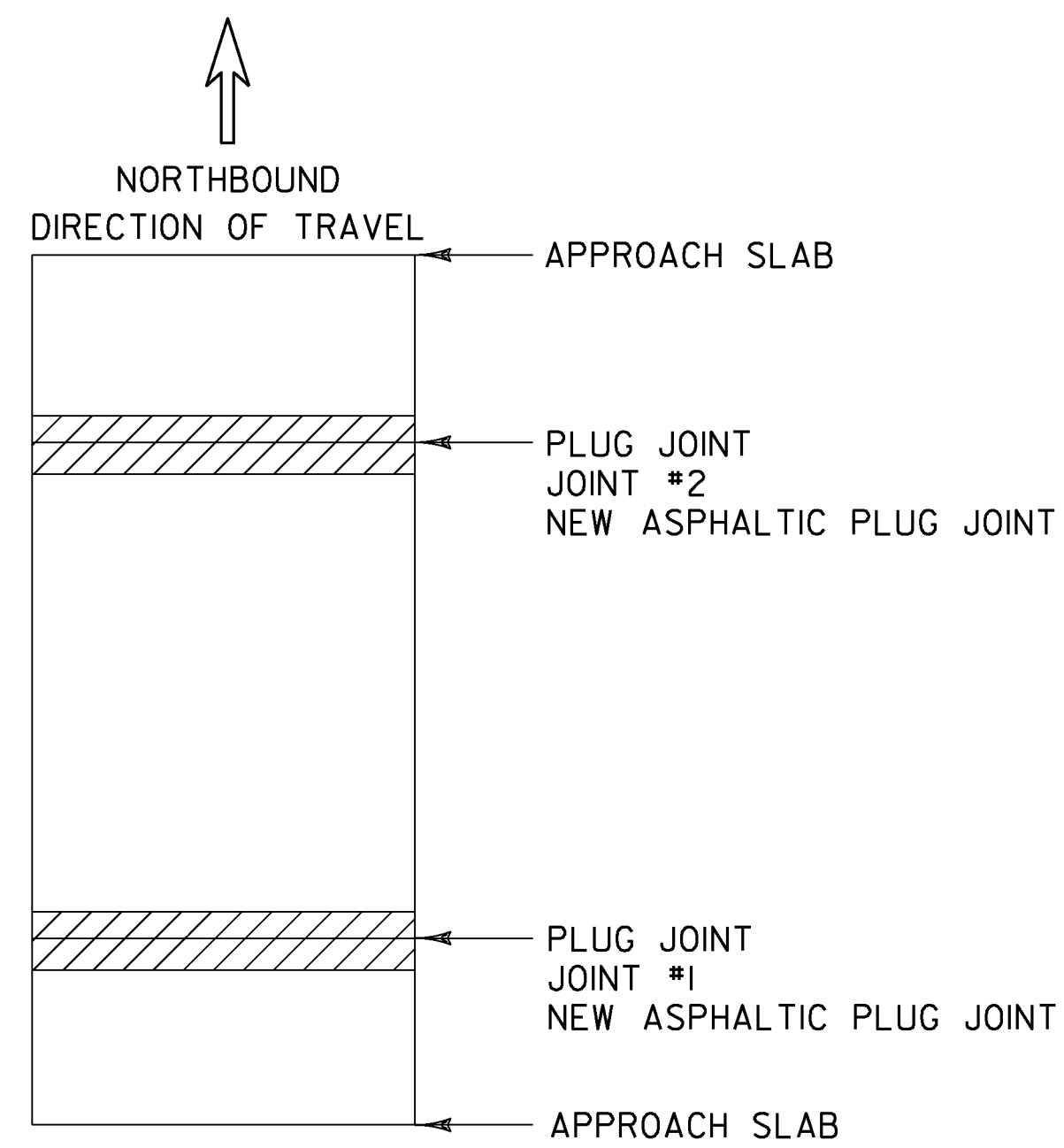


**COLD PLANE DETAILS**

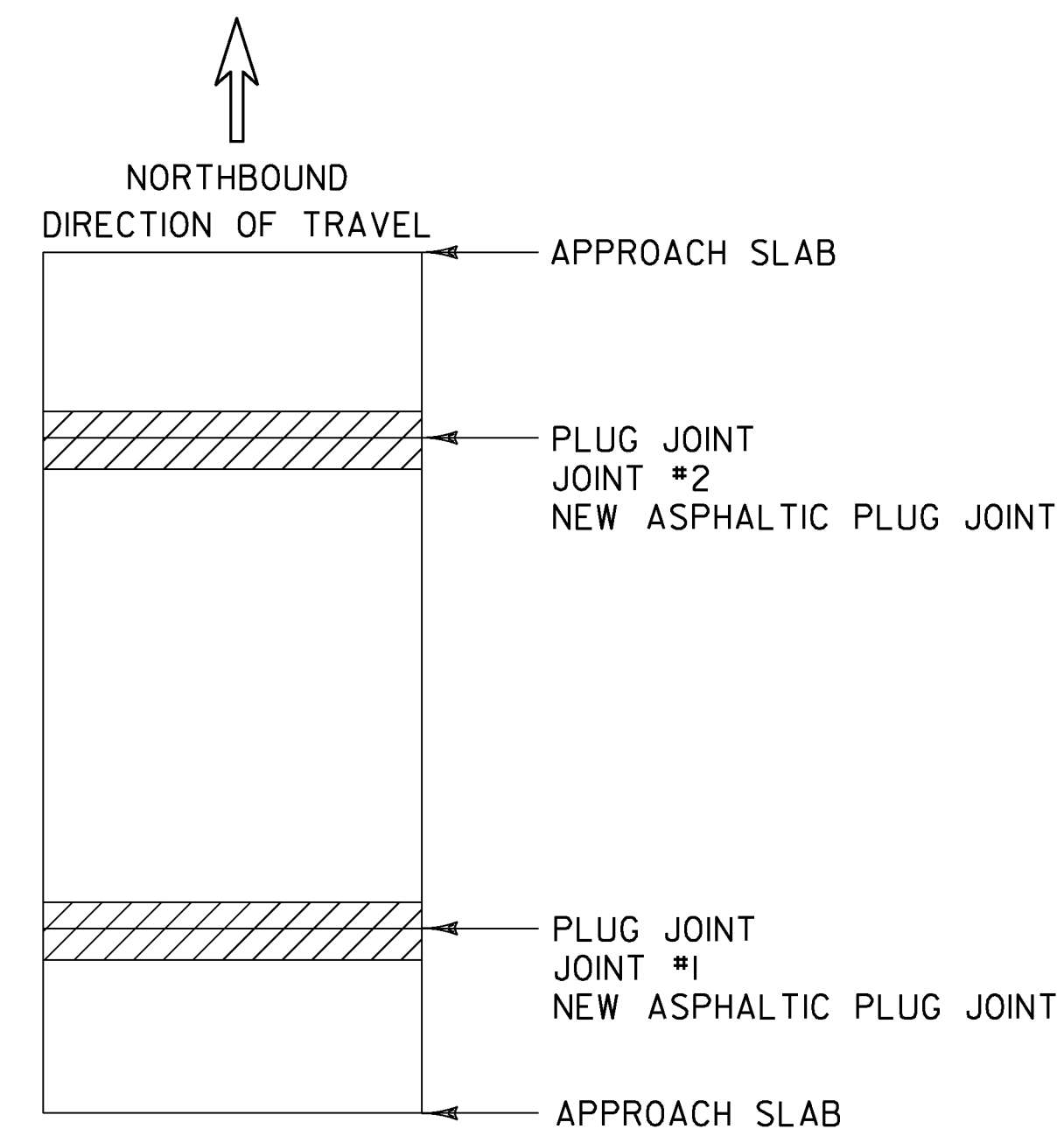
PROJECT NAME: WAITSFIELD-MORETOWN  
PROJECT NUMBER: STP SURF(39)

FILE NAME: I3b168\p13b168.dgn PLOT DATE: 06-MAY-2014  
PROJECT LEADER: FOWLER DRAWN BY: BULLOCK  
DESIGNED BY: BULLOCK CHECKED BY: FOWLER  
IPARM FILE NAME: p13b168cpd.i SHEET 23 OF 26

**NOT TO SCALE**



**BRIDGE 186**  
MM 7.104 IN WAITSFIELD  
LENGTH OF ASPHALTIC PLUG JOINTS:  
JOINT #1 - 27.5'  
JOINT #2 - 27.5'  
  
TOTAL = 55.0'



**BRIDGE 187**  
MM 0.154 IN DUXBURY  
LENGTH OF ASPHALTIC PLUG JOINTS:  
JOINT #1 - 20.0'  
JOINT #2 - 20.0'  
  
TOTAL = 40.0'

**NOTES:**

1. SEE STRUCTURES DETAIL SD-516.10, BRIDGE JOINT ASPHALTIC PLUG FOR NOTES AND DETAILS.
2. INSTALL ASPHALTIC PLUG JOINT AT VT. RTE. 17 STA. 507+31.5 BRIDGE #38.
3. BRIDGES WITHIN THE PROJECT LIMITS ARE:

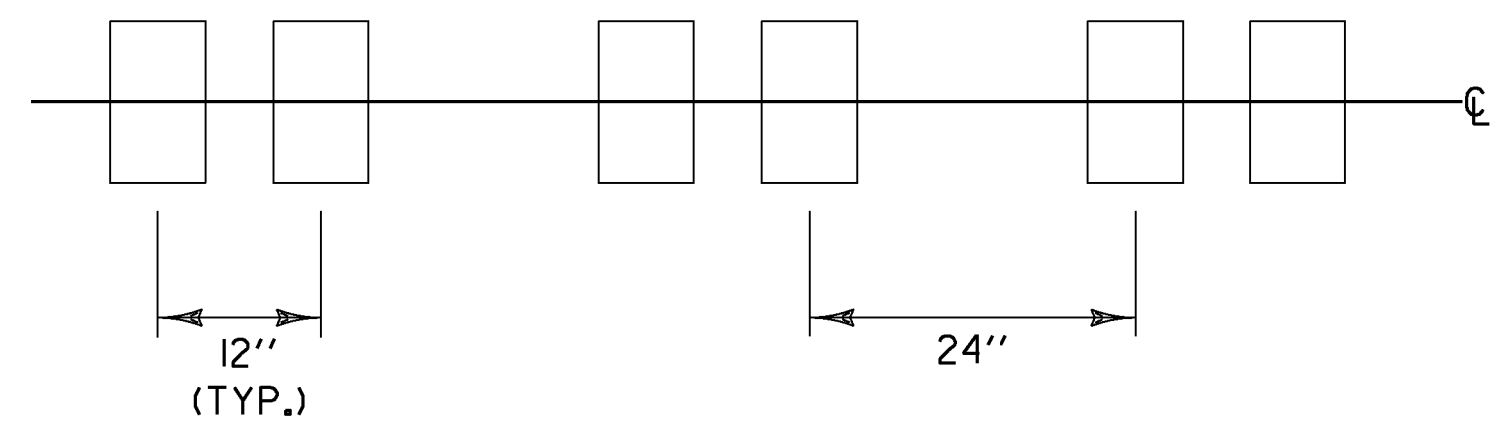
BRIDGE NUMBER 179, MM 3.389 (WAITSFIELD) 60" CGMPAC W  
 BRIDGE NUMBER 180, MM 4.742 (WAITSFIELD) 4' X 5' CONCRETE BOX (COLD PLANE AND PAVE)  
 BRIDGE NUMBER 181, MM 4.903 (WAITSFIELD) 23' X 3.5' CONCRETE SLAB (COLD PLANE AND PAVE)  
 BRIDGE NUMBER 182, MM 5.083 (WAITSFIELD) 4' X 4' CONCRETE BOX W (COLD PLANE AND PAVE)  
 BRIDGE NUMBER 183, MM 5.260 (WAITSFIELD) 4' X 5' CONCRETE BOX (CATTLEPASS) (COLD PLANE AND PAVE)  
 BRIDGE NUMBER 184, MM 5.359 (WAITSFIELD) 4' X 5' CONCRETE BOX W (CATTLEPASS) (COLD PLANE AND PAVE)  
 BRIDGE NUMBER 185, MM 5.794 (WAITSFIELD) 6' X 6' CONCRETE BOX W (COLD PLANE AND PAVE)  
 BRIDGE NUMBER 186, MM 7.104 (WAITSFIELD) 80' X 9' CONCRETE I-BEAM (COLD PLANE AND PAVE)  
 BRIDGE NUMBER 187, MM 0.154 (DUXBURY) 58' X 17' CONCRETE I-BEAM  
 BRIDGE NUMBER 188, MM 1.611 (DUXBURY) 50" X 30" ACCGMP ARCH  
 BRIDGE NUMBER 189, MM 1.665 (DUXBURY) 60" RCP  
 BRIDGE NUMBER 190, MM 2.602 (DUXBURY) 8' - 7" X 5' - 11" CGMPP ARCH  
 BRIDGE NUMBER 191, MM 3.932 (DUXBURY) 48" ACCGMP  
 BRIDGE NUMBER 192, MM 4.361 (DUXBURY) 72" ACCGMP  
 BRIDGE NUMBER 193, MM 5.571 (DUXBURY) 15' - 10" X 10' - 8" CGMPLP ARCH  
 BRIDGE NUMBER 194, MM 6.216 (DUXBURY) 20' X 10' REINFORCED CONCRETE BOX

**LEGEND**

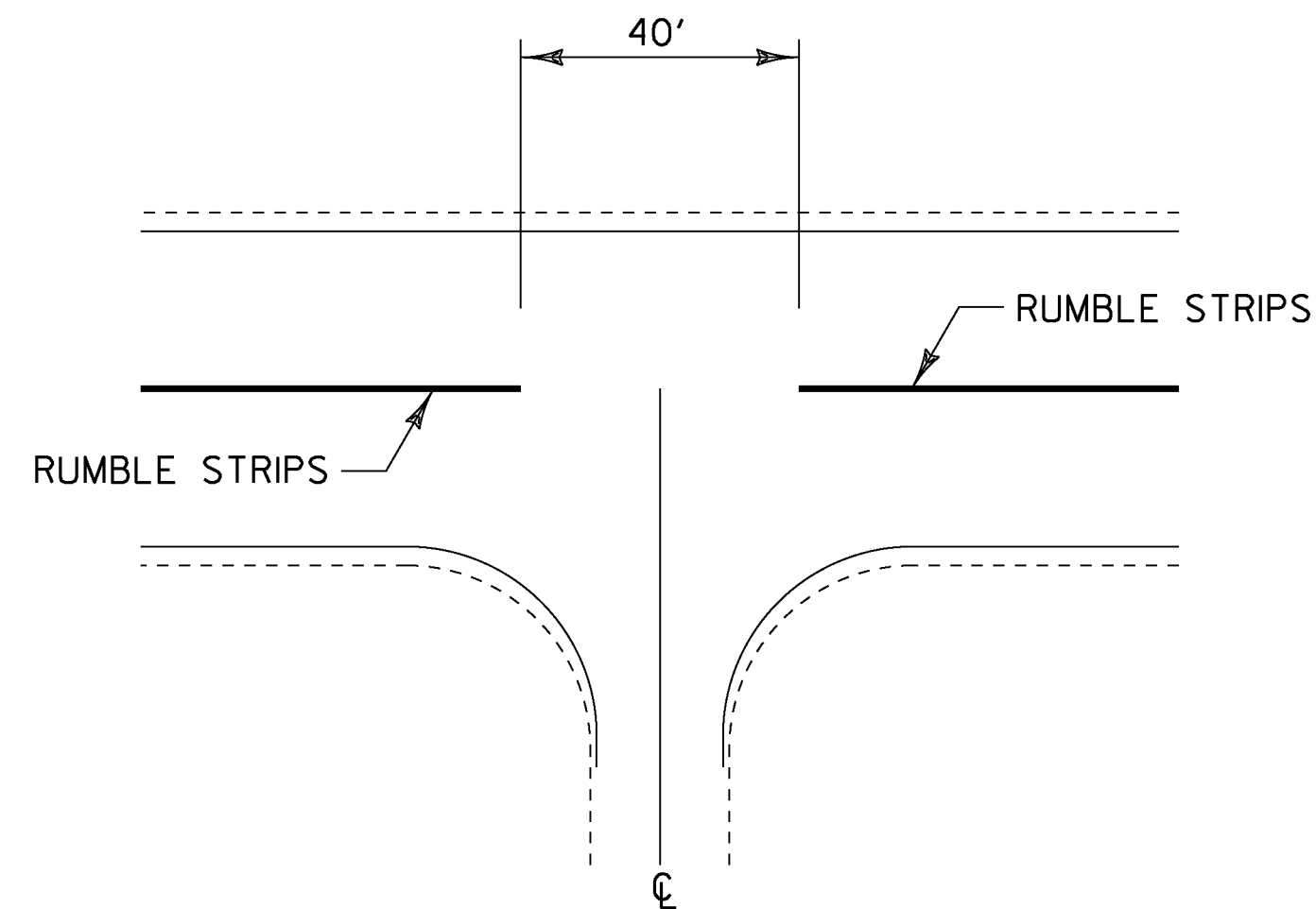
EXISTING BRIDGE JOINTS TO BE REPAIRED WITH ASPHALTIC PLUG JOINT

**BRIDGE  
JOINT  
DETAIL  
SHEET**

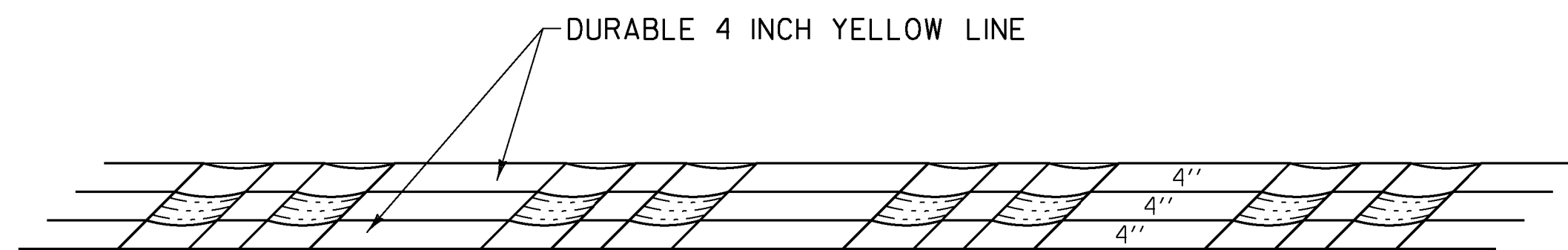
PROJECT NAME:	WAITSFIELD-MORETOWN
PROJECT NUMBER:	STP SURF (39)
FILE NAME: p13bi68.dgn	PLOT DATE: 06-MAY-2014
PROJECT LEADER: M. FOWLER	DRAWN BY: L. BULLOCK
DESIGNED BY: L. BULLOCK	CHECKED BY: PAVT MGMT
IPARM FILE NAME: p13bi68bjd.i	SHEET 24 OF 26



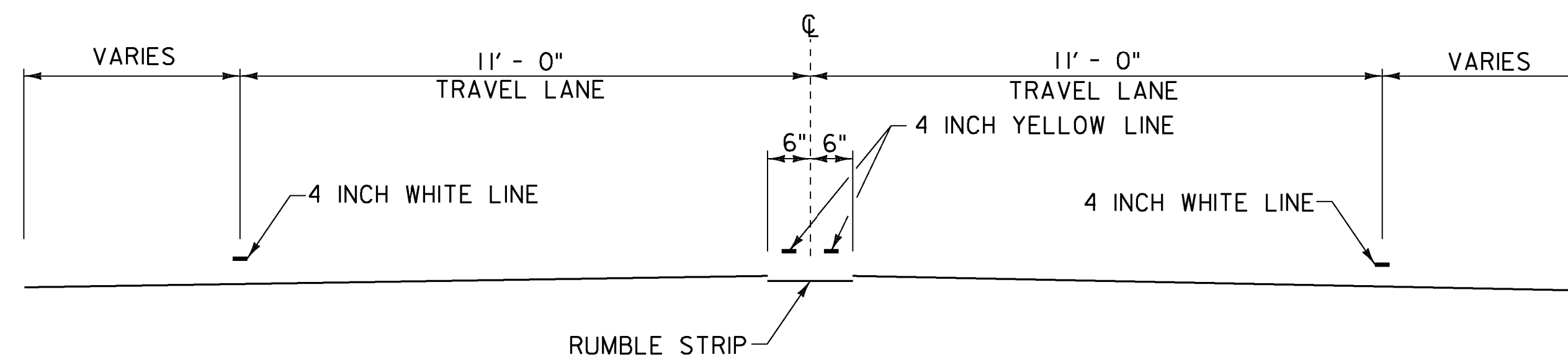
**RUMBLE STRIP LAYOUT**



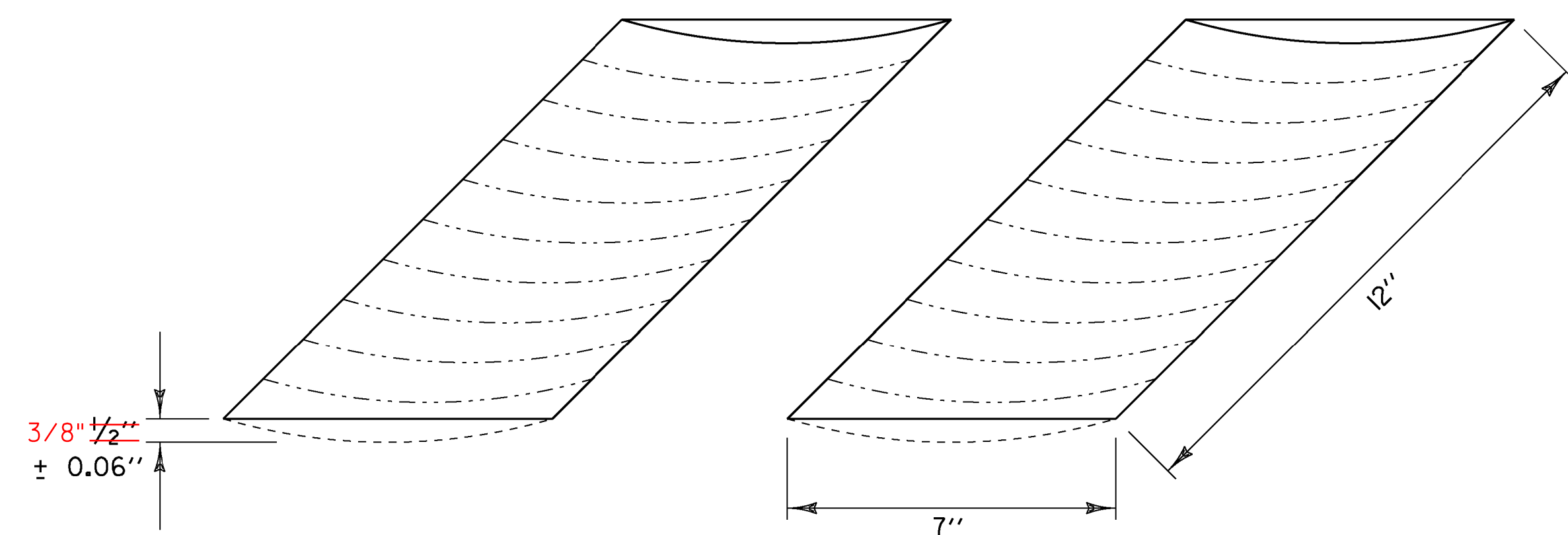
**INTERSECTION DETAIL**



**PAVEMENT MARKINGS DETAIL**



**RUMBLE STRIP TYPICAL SECTION**



**RUMBLE STRIP DETAIL**

**RUMBLE STRIP LOCATIONS:**

**WAITSFIELD:**

- MM 4.184 - 4.749
- MM 4.964 - 5.086
- MM 5.359 - 5.719
- MM 6.205 - 6.312
- MM 6.626 - 7.043

**MORETOWN:**

N/A

**DUXBURY:**

- MM 1.137 - 1.548
- MM 2.009 - 2.325
- MM 2.696 - 2.761
- MM 2.841 - 2.916
- MM 3.372 - 3.939
- MM 4.545 - 5.041
- MM 5.362 - 6.189

**NOTES**

1. CENTERLINE RUMBLE STRIPS NOT TO EXTEND BEYOND CENTERLINE WHEN CENTERLINE IS A DOUBLE YELLOW LINE, WITH OR WITHOUT A PASSING ZONE.
2. CENTERLINE RUMBLE STRIP TO BE PLACED ALONG CENTERLINE OF ROADWAY.
3. CENTERLINE RUMBLE STRIP TO STOP 20 FEET PRIOR TO THE CENTERLINE OF AN INTERSECTION.
4. TWO APPLICATIONS OF FOG SEAL SURFACE TREATMENT SHALL BE APPLIED TO THE COMPLETED CENTERLINE RUMBLE STRIP AT THE RATE OF 0.15 GAL/SY (+/- 0.05 GAL/SY), OR AS DIRECTED BY THE ENGINEER.

**CENTERLINE RUMBLE STRIP DETAIL SHEET**

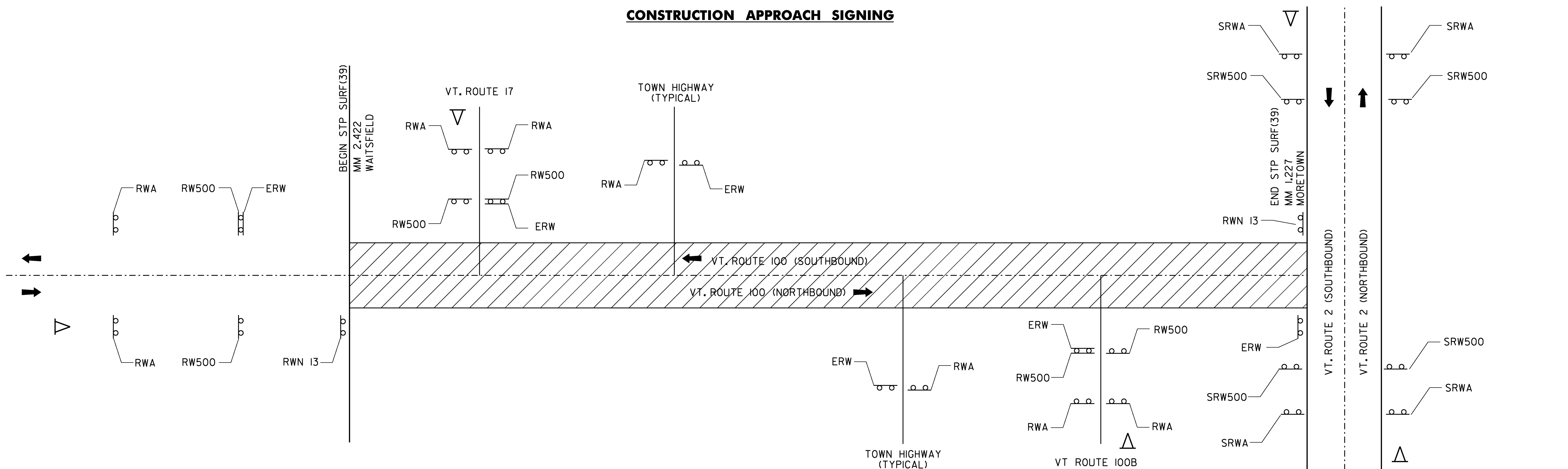
PROJECT NAME: WAITSFIELD-MORETOWN  
PROJECT NUMBER: STP SURF(39)

FILE NAME: pi3bi68.dgn  
PROJECT LEADER: M. FOWLER  
DESIGNED BY: PAVT MGMT  
IPARM FILE NAME: pi3bi68crs.1

PLOT DATE: 06-MAY-2014  
DRAWN BY: PAVT MGMT  
CHECKED BY: PAVT MGMT  
SHEET 25 OF 26

NOT TO SCALE

**CONSTRUCTION APPROACH SIGNING**



**NOTES:**

1. THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC TRAFFIC CONTROL PLAN TO THE RESIDENT ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) SHALL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10, TRAFFIC CONTROL.
2. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN APPROACH PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH VAOT STANDARDS AND THE LATEST EDITION OF THE MUTCD. PAYMENT FOR PROVIDING THIS PACKAGE SHALL BE INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL.
3. THE BID PRICE FOR TRAFFIC CONTROL, ITEM 641.10, SHALL INCLUDE ALL APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, PORTABLE ARROW BOARDS, BARRIERS, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN VTRANS STANDARDS. ALL ADJUSTING, RELOCATING, AND REMOVING OF THESE DEVICES AS DIRECTED BY THE RESIDENT ENGINEER SHALL ALSO BE INCLUDED. THE FOLLOWING ITEMS WILL BE PAID FOR SEPARATELY: 630.10 - UNIFORMED TRAFFIC OFFICERS, AND 630.15 - FLAGGERS, 646.602 - TEMPORARY 4 INCH WHITE LINE, PAINT, 646.612 - TEMPORARY 4 INCH YELLOW LINE, PAINT, 646.682 - TEMPORARY 24 INCH STOP BAR, PAINT, 646.692 - TEMPORARY LETTER OR SYMBOL, PAINT, 646.702 - TEMPORARY CROSSWALK, PAINT, AND 646.76 - LINE STRIPING TARGETS.
4. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE PROVIDED FOR USE ALONG THIS PROJECT. THE PLACEMENT OF THESE UNITS AS WELL AS THE MESSAGE WILL BE APPROVED BY THE RESIDENT ENGINEER. THESE SIGNS WILL BE PAID FOR UNDER ITEM 641.15, PORTABLE CHANGEABLE MESSAGE SIGN.  
FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL POSITION A PCMS PRIOR TO THE BEGIN AND END PROJECT LIMITS WARNING MOTORISTS OF EXPECTED ROADWAY CONDITIONS AND REDUCED ROADWAY WIDTHS.  
PCMS SHOULD NOT REPLACE ANY OF THE SIGNING DETAILED IN THE MUTCD AND SHOULD NOT BE USED IF STANDARD TRAFFIC CONTROL DEVICES ADEQUATELY PROVIDE THE INFORMATION THE MOTORISTS NEED TO TRAVEL SAFELY.  
THE PCMS SHALL CONSIST OF EITHER ONE OR TWO PHASES. TYPICALLY, A PHASE SHALL CONSIST OF UP TO THREE LINES OF EIGHT CHARACTERS PER LINE. THE PCMS SHOULD BE USED AS A SUPPLEMENT AND NOT AS A SUBSTITUTE FOR CONVENTIONAL SIGNS AND PAVEMENT MARKINGS.  
THE PCMS SHOULD COMMUNICATE WHAT INFORMATION MOTORISTS NEED TO KNOW. UNNECESSARY INFORMATION SHOULD BE AVOIDED. MESSAGES SHOULD BE UPDATED PERIODICALLY TO DESCRIBE THE WORK ACTIVITY OCCURRING SO THAT THE PCMS CONTINUES TO COMMAND THE ATTENTION OF MOTORISTS.
5. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE, AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS.
6. REFER TO VT. STATE STANDARDS AND THE LATEST EDITION OF THE MUTCD FOR TEMPORARY TRAFFIC CONTROL SIGN COLORS.
7. EXISTING SPEED LIMIT SIGNS SHALL BE COVERED WHEN REDUCED SPEED SIGNS ARE POSTED. KEEP RECORDS WHEN POSTING THE WORK ZONE SPEED LIMIT FOR LEGAL PURPOSES; DOCUMENTING DATES, TIMES, AND LOCATIONS OF SIGNS. WHEN WORK ZONE SPEED LIMIT IS NOT IN USE ALL ASSOCIATED SIGNS SHALL BE COVERED, TURNED AND/OR LAID FLAT SO AS THE MOTORING PUBLIC CANNOT READ THESE SIGNS.
8. PORTABLE OR STATIONARY WORK ZONE SPEED LIMIT SIGNS SHOULD BE SPACED EVERY 1.5 TO 2 MILES WHERE APPLICABLE AND AFTER INTERSECTIONS AS A REMINDER TO THE MOTORIST TRAVELING THROUGH THE WORK ZONE WHAT SPEED THEY SHOULD BE TRAVELING.
9. WHEN REDUCED REGULATORY SPEED LIMIT SIGNS ARE USED, THE RESUMPTION OF THE USUAL SPEED LIMIT SHALL BE INDICATED BY AN APPROPRIATE SPEED LIMIT SIGN AT THE END OF THE WORK ZONE.

10. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MUTCD, PART 6.
11. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.
12. IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE SHOULD BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICT WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.
13. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASH WORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF THE MUTCD SHALL BE USED.
14. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.
15. THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE PROPER PROTECTION AND A TPAR HAVE BEEN PROVIDED.
16. THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW AND WRITTEN APPROVAL A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC. PAYMENT FOR DEVELOPING, IMPLEMENTING, AND MAINTAINING THE TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN WILL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 641.10.

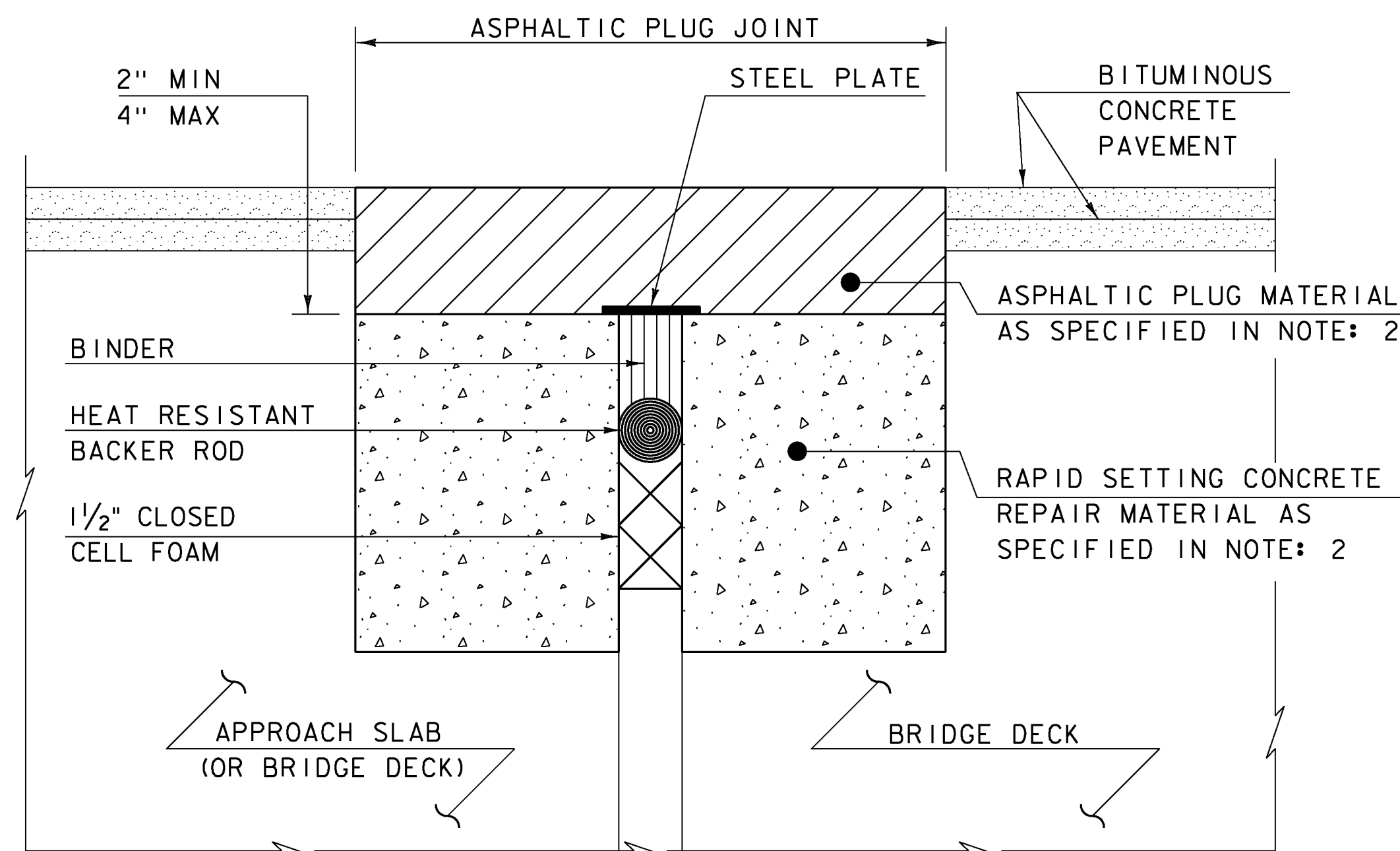
**LEGEND**

- RWA = ROAD WORK AHEAD
- RW500 = ROAD WORK 500 FEET
- SRW500 = SIDE ROAD WORK 500 FEET
- SRWA = SIDE ROAD WORK AHEAD
- RWN = ROAD WORK NEXT (XX MILES)
- ERW = END ROAD WORK
- △ = PORTABLE CHANGEABLE MESSAGE SIGN
- [Hatched Box] = WORK AREA
- ← = DIRECTION OF TRAFFIC FLOW

**NOT TO SCALE**

**CONSTRUCTION APPROACH SIGNING SHEET**

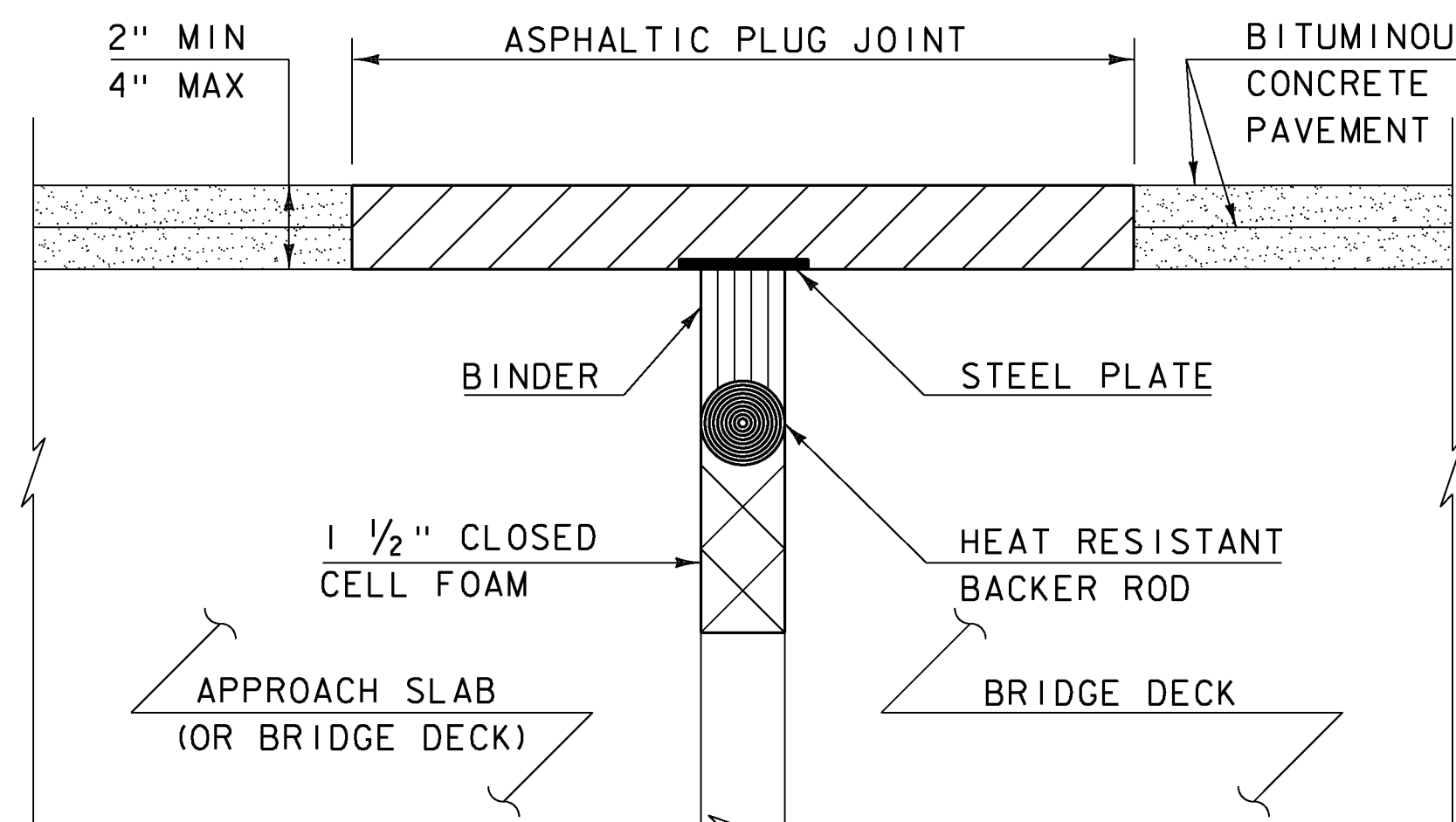
PROJECT NAME:	WAITSFIELD-MORETOWN
PROJECT NUMBER:	STP SURF(39)
FILE NAME: I3b168\p13b168.dgn	PLOT DATE: 06-MAY-2014
PROJECT LEADER: M. FOWLER	DRAWN BY: L. BULLOCK
DESIGNED BY: L. BULLOCK	CHECKED BY: PAVT MGMT
IPARM FILE NAME: p13b168_xx.i	SHEET 26 OF 26



**ASPHALTIC PLUG-TYPE JOINT DETAIL - REHAB**

NOTES: (NOT TO SCALE)

1. THE CONTRACTOR SHALL REMOVE ALL ASPHALTIC PLUG JOINT MATERIAL AND DETERIORATED CONCRETE AS DIRECTED BY THE ENGINEER. REMOVAL OF THE FIRST 4 INCHES OF MATERIAL SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 516.10 BRIDGE EXPANSION JOINT, ASPHALTIC PLUG. ANY REMOVAL OF MATERIAL GREATER THAN 4 INCHES SHALL BE INCLUDED IN THE BID PRICE OF ITEM 580.20 RAPID SETTING CONCRETE REPAIR MATERIAL WITH COURSE AGGREGATE.
2. THE CONTRACTOR SHALL REPLACE REMOVED MATERIAL THAT IS LESS THAN 4" FROM FINISHED GRADE WITH ASPHALTIC PLUG JOINT MATERIAL MEETING THE REQUIREMENTS OF SUBSECTION 707.15. ALL REMOVED MATERIAL THAT IS GREATER THAN 4 INCHES FROM FINISHED GRADE SHALL BE REPLACED WITH RAPID SETTING CONCRETE REPAIR MATERIAL WITH COURSE AGGREGATE MEETING THE REQUIREMENTS OF SUBSECTION 780.04.
3. REINFORCING STEEL NOT SHOWN FOR CLARITY.



**ASPHALTIC PLUG-TYPE JOINT DETAIL - NEW**

(NOT TO SCALE)

**INSTALLATION: ASPHALTIC PLUG JOINT NOTES**

1. LOCATE THE JOINT CENTRALLY OVER THE DECK OVERLAY EXPANSION GAP OR FIXED JOINT, MARKED OUT TO THE MANUFACTURER'S RECOMMENDED WIDTH.
2. REMOVE THE BITUMINOUS CONCRETE PAVEMENT FULL DEPTH AS SHOWN ON THE PLANS. THE PAVEMENT SHALL BE DRY AND SAW CUT TO THE LIMITS REQUIRED TO PLACE THE JOINT. A PNEUMATIC HAMMER AND CHISEL MAY BE USED ADJACENT TO THE CURB ONLY WHEN SAW CUTTING IS NOT POSSIBLE.
3. BLAST CLEAN THE JOINT AREA OF DEBRIS, ASPHALT AND SHEET MEMBRANE. THOROUGHLY DRY THE JOINT AREA WITH COMPRESSED AIR PRIOR TO APPLYING BINDER MATERIAL.
4. REPAIR MATERIAL GREATER THAN 4 INCHES FROM FINISHED GRADE WITH RAPID SETTING CONCRETE REPAIR MATERIAL WITH COURSE AGGREGATE MEETING THE REQUIREMENTS OF SUBSECTION 780.04.
5. PLACE PROPERLY SIZED HEAT RESISTANT BACKER ROD IN THE MOVEMENT GAP ALLOWING FOR 1" +/- OF BINDER ABOVE THE ROD.
6. HEAT AND PLACE THE BINDER MATERIAL AS RECOMMENDED BY THE MANUFACTURER.
7. PLACE 1/4" THICK BY 8" WIDE SECTIONS OF STEEL PLATE OVER THE CENTER OF THE MOVEMENT GAP. SECURE THE PLATES FROM MOVING BY INSERTING LOCATING PINS THROUGH THE PRE-STAMPED HOLES INTO BACKER ROD AND COVER WITH HOT BINDER. THE STEEL PLATES MAY BE OMITTED WHERE THE ENGINEER DETERMINES THAT THE APPROACH SLAB OR BRIDGE DECK WILL PROVIDE INADEQUATE SUPPORT AND WHERE VERTICAL MOVEMENT OF THE PLATES MIGHT OCCUR.
8. HEAT AND MIX THE BINDER MATERIAL AND AGGREGATE AS RECOMMENDED BY THE MANUFACTURER.
9. INSTALLATION OF MATERIAL, COMPACTION, AND TOP COATING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
10. IMMEDIATELY AFTER TOP COATING, CAST AN ANTI-SKID MATERIAL OVER THE JOINT TO REDUCE THE RISK OF TRACKING.
11. ONCE THE JOINT REACHES 82 DEG C (180 DEG F) +/-, WATER MAY BE USED TO EXPEDITE THE COOLING PROCESS.
12. PROTECT JOINT FROM TRAFFIC UNTIL THE MATERIAL HAS COOLED TO 51 DEG C (125 DEG F) +/-.

**WEATHER LIMITATIONS**

APPLY BINDER MATERIAL ONLY WHEN THE FOLLOWING CONDITIONS PREVAIL OR AS RECOMMENDED BY THE MANUFACTURER:

1. THE AMBIENT AIR TEMPERATURE IS AT LEAST 10 DEG C (50 DEG F) AND RISING.
2. THE ROAD SURFACE IS DRY.
3. WEATHER CONDITIONS OR OTHER CONDITIONS ARE FAVORABLE AND ARE EXPECTED TO REMAIN SO FOR THE PERFORMANCE OF SATISFACTORY WORK.

**REVISIONS**

MAY 7, 2010 APPROVED FOR USE BY VAOT STRUCTURES SECTION

**BRIDGE JOINT  
ASPHALTIC PLUG**

**STRUCTURES  
DETAIL  
SD-516.10**