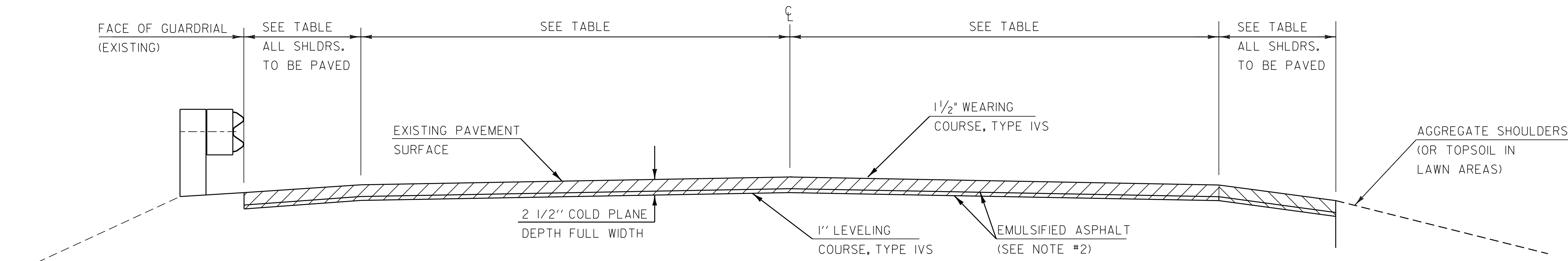


**OVERLAY TYPICAL SECTION**

VT ROUTE 104 - FAIRFAX MM 6.883 - ST. ALBANS TOWN MM 1,285  
 VT ROUTE 104 - ST. ALBANS TOWN MM 1,644 - ST. ALBANS TOWN MM 2,155  
 VT ROUTE 104 - ST. ALBANS TOWN MM 2,300 - ST. ALBANS TOWN MM 4,110



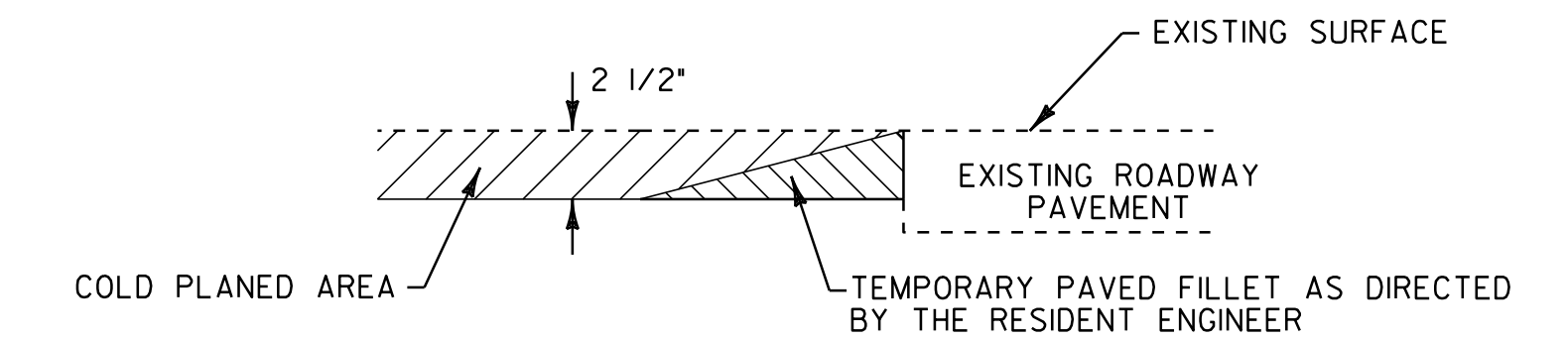
**COLD PLANE TYPICAL SECTION**

VT ROUTE 104 - ST. ALBANS TOWN MM 1,425 - ST. ALBANS TOWN MM 1,644

**GENERAL NOTES**

1. THE PAVEMENT WEARING COURSE SHALL BE TYPE IVS, THE LEVELING COURSE SHALL BE TYPE IVS AND 1" IN DEPTH, ITEM 490.30, AS SHOWN ON THE TYPICALS, UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. ALL LIQUID ASPHALT USED IN SUPERPAVE BITUMINOUS CONCRETE PAVEMENT SHALL BE AS SHOWN ON TITLE SHEET.
2. EMULSIFIED ASPHALT SHALL BE APPLIED ON ALL EXISTING PAVEMENT SURFACES, ON COLD PLANED SURFACES AND BETWEEN ALL COURSES OF PAVEMENT AT THE RATE OF 0.025 GAL/SY OR AS DIRECTED BY THE RESIDENT ENGINEER.
3. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = 1/4" +/- (TOTAL THICKNESS EXCLUDING LEVEL COURSE).
4. EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE RESIDENT ENGINEER SHALL BE EXCAVATED TO A DEPTH OF 3" +/- OR AS DIRECTED BY THE RESIDENT ENGINEER. EXCAVATED MATERIAL SHALL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM THE PROJECT AS DIRECTED BY THE RESIDENT ENGINEER. THIS WORK WILL BE PAID FOR USING THE APPROPRIATE RENTAL ITEMS. THE METHOD OF REMOVAL AND THE USE OF RENTAL ITEMS SHALL BE APPROVED BY THE RESIDENT ENGINEER PRIOR TO ANY WORK BEING DONE. MATERIAL REMOVED SHALL BE REPLACED WITH 301.28, SUBBASE OF CRUSHED GRAVEL, FINE GRADED.
5. COLD PLANING SHALL BE COMPLETED ACCORDING TO THE TYPICALS OR AS DENOTED OTHERWISE ON THE PLANS. A FULL DEPTH 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 RESIDENT ENGINEER. ALL JOINTS SHALL BE SAW CUT, INCIDENTAL TO ITEM 210.10, COLD PLANING, BITUMINOUS PAVEMENT.
6. ALL EDGES OF PAVEMENT SHALL BE BACKED UP FULL HEIGHT WITH AGGREGATE SHOULDERS AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER ITEM 402.12, AGGREGATE SHOULDERS.
7. COMPACTION, GRADING, AND CLEAN UP OF ITEM 301.28, SUBBASE OF CRUSHED GRAVEL, FINE GRADED, ITEM 402.12, AGGREGATE SHOULDERS, AND ITEM 651.35, TOPSOIL, IS TO BE INCLUDED IN THE CONTRACT UNIT PRICE OF EACH ITEM.
8. ITEMS 604.412, 604.415, 604.418 REHAB. DI, CB OR MH, CLASS I, II OR III ARE ESTIMATED ITEMS AND SHALL BE PERFORMED AT LOCATIONS SHOWN ON THE LAYOUT SHEETS OR AS DIRECTED BY THE RESIDENT ENGINEER. ALL DI'S SHALL BE RAISED SUCH THAT THE NEW GRATE ELEVATION IS LEVEL WITH THE SURROUNDING TERRAIN.
9. 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 RESIDENT ENGINEER. PAYMENT FOR THIS WORK WILL NOT BE MADE DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
10. YIELDING MARKER POSTS SHALL BE USED TO DELINEATE CULVERT ENDS AND DROP INLETS LOCATED OUTSIDE OF THE PAVEMENT SURFACE OR AS DIRECTED BY THE ENGINEER.
11. STEEL BEAM GUARDRAIL WITH STEEL POSTS SHALL BE USED ON THIS PROJECT.
12. 3' OF BACKING IS REQUIRED BEHIND THE FACE OF GUARDRAIL WITH 6' POSTS. IF THIS CANNOT BE OBTAINED, THEN 8' POSTS SHALL BE USED.
13. ESTIMATED QUANTITIES OF ITEMS 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I, ITEM 608.37 TRUCK RENTAL AND ITEM 608.40 LOADER RENTAL, TYPE I HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL END SECTION FLARES WITH EXCAVATED DITCHING MATERIAL. AN ESTIMATED QUANTITY OF 203.30 EARTH BORROW HAS BEEN INCLUDED IN THE CASE THAT THE DITCHING MATERIAL IS NOT SUITABLE TO USE IN THE GUARDRAIL END SECTION FLARE AREA. 25 CUBIC YARDS OF EARTH MATERIAL HAS BEEN ESTIMATED FOR EACH NEW GUARDRAIL END SECTION FLARE. ITEM 653.20 TEMPORARY EROSION MATTING SHALL BE PLACED ON ALL SLOPES CREATED BY THE GUARDRAIL END SECTION FLARE. THE QUANTITIES INCLUDED REFLECT 25 SY OF ITEM 653.20 TEMPORARY EROSION MATTING FOR EACH NEW GUARDRAIL END SECTION FLARE.

TOWN	BEGIN MM	END MM	SHOULDER	LANE TYPICAL	SHOULDER	WEARING DEPTH	WEARING TYPE	LEVEL DEPTH	LEVEL TYPE	NOTES
FAIRFAX	6.883	6.889	2.0	11.0	2.0	1 1/2"	IVS	1"	IVS	LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS
FAIRFAX	6.889	9.773	4.0	11.0	4.0	1 1/2"	IVS	1"	IVS	LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS
FAIRFAX	9.773	9.789	4.0	11.0	4.0	1 1/4"	IVS	-	-	BRI4 MILL 1 1/4", PAVE W/1 1/4" TYPE IVS
FAIRFAX	9.789	12.267	4.0	11.0	4.0	1 1/2"	IVS	1"	IVS	LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS
FAIRFAX	12.267	12.721	5.0	11.0	5.0	1 1/2"	IVS	1"	IVS	LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS
FAIRFAX	12.721	13.594	7.0	11.0	7.0	1 1/2"	IVS	1"	IVS	LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS
FAIRFAX	13.594	14.185	3.0	11.0	3.0	1 1/2"	IVS	1"	IVS	LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS
GEORGIA	0.000	0.130	2.0	11.0	2.0	1 1/2"	IVS	1"	IVS	LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS
FAIRFIELD	0.000	0.111	2.0	11.0	2.0	1 1/2"	IVS	1"	IVS	LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS
ST. ALBANS TOWN	0.000	1.285	2.0	11.0	2.0	1 1/2"	IVS	1"	IVS	LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS
ST. ALBANS TOWN	1.285	1.425	-	-	-	-	-	-	-	END PAVING MM 1.285, RESUME MM 1.425
ST. ALBANS TOWN	1.425	1.513	2.0	11.0	2.0	1 1/2"	IVS	1"	IVS	COLD PLANE 2 1/2", THEN PAVE WITH 2 1/2" TYPE IVS
ST. ALBANS TOWN	1.513	1.644	4.0	11.0	4.0	1 1/2"	IVS	1"	IVS	COLD PLANE 2 1/2", THEN PAVE WITH 2 1/2" TYPE IVS
ST. ALBANS TOWN	1.644	2.155	WIDTHS VARY AT VT 104 & S.A.S.H. INTERSECTION			1 1/2"	IVS	1"	IVS	LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS
ST. ALBANS TOWN	2.155	2.300	-	-	-	-	-	-	-	END PAVING MM 2.155, RESUME MM 2.300
ST. ALBANS TOWN	2.300	2.843	3.0	11.0	3.0	1 1/2"	IVS	1"	IVS	LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS
ST. ALBANS TOWN	2.843	2.887	1.0	11.0	1.0	1 1/4"	IVS	-	-	BR20 COLD PLANE 1 1/4", THEN PAVE W/1 1/4" TYPE IVS
ST. ALBANS TOWN	2.887	4.110	3.0	11.0	3.0	1 1/2"	IVS	1"	IVS	LEVEL AND THEN PAVE WITH 1 1/2" TYPE IVS



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

**FULL ROADWAY WIDTH**  
 ST. ALBANS TOWN MM 1.425 VT 104  
 ST. ALBANS TOWN MM 1.644 VT 104  
 ST. ALBANS TOWN MM 0.600 S.A.S.H.  
 ST. ALBANS TOWN MM 0.830 S.A.S.H.

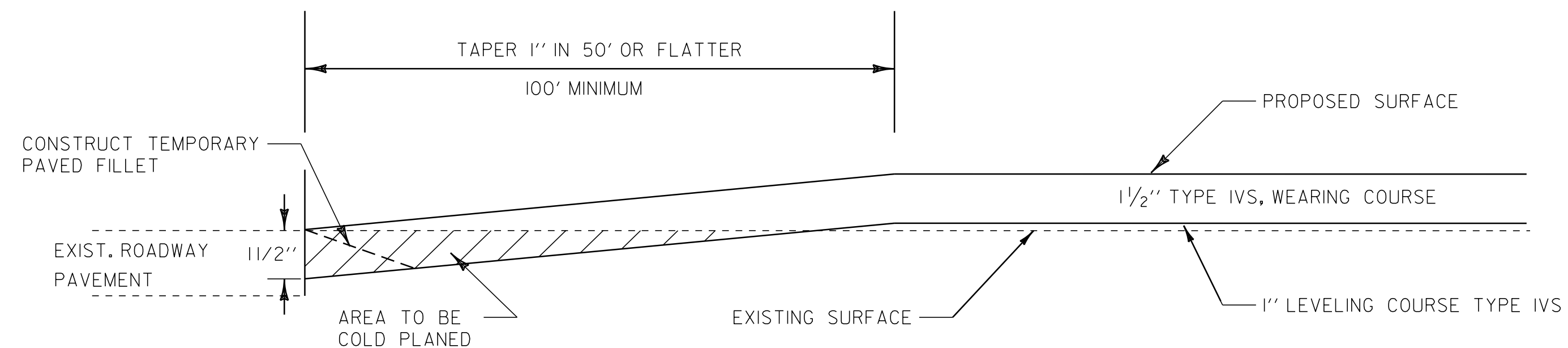
**PROJECT TYPICAL SHEET # 1**

**NOT TO SCALE**

PROJECT NAME: FAIRFAX - ST. ALBANS TOWN  
 PROJECT NUMBER: STP 2217(1)

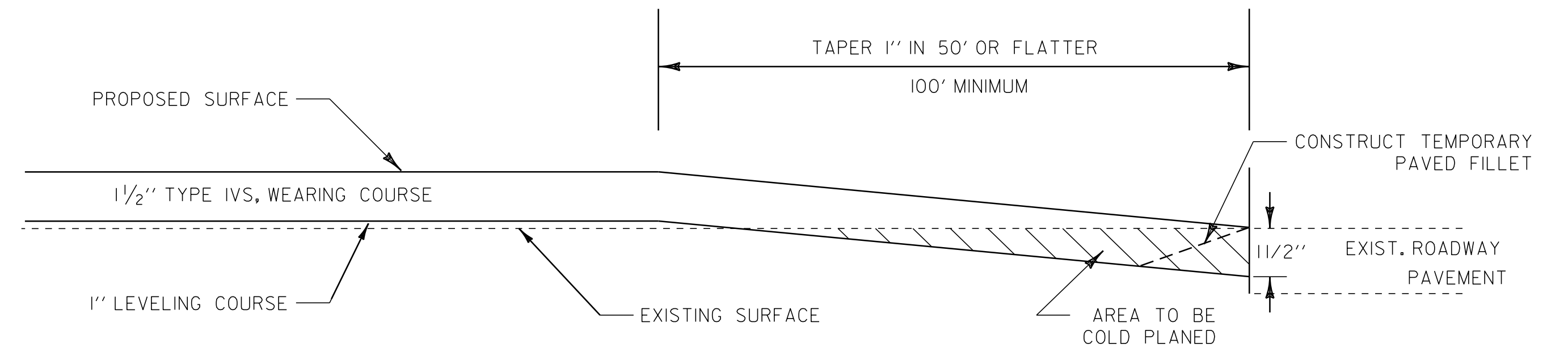
FILE NAME: p99cl86.dgn  
 PROJECT LEADER: T. DOMEY  
 DESIGNED BY: K. LOCKE  
 IPARM FILE NAME: p99cl86+yp1.i

PLOT DATE: 11-OCT-2011 11:48  
 DRAWN BY: K. LOCKE  
 CHECKED BY: PAVT MGMT  
 SHEET 2 OF 25



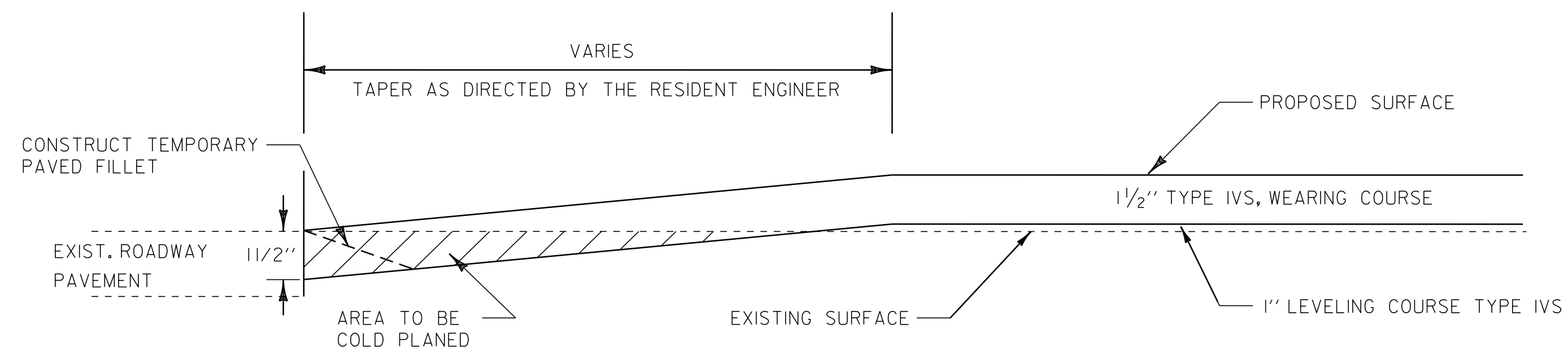
**APPROACH AREA DETAIL - MAINLINE**

FULL ROADWAY WIDTH  
 FAIRFAX MM 6.883  
 ST. ALBANS TOWN MM 2.300



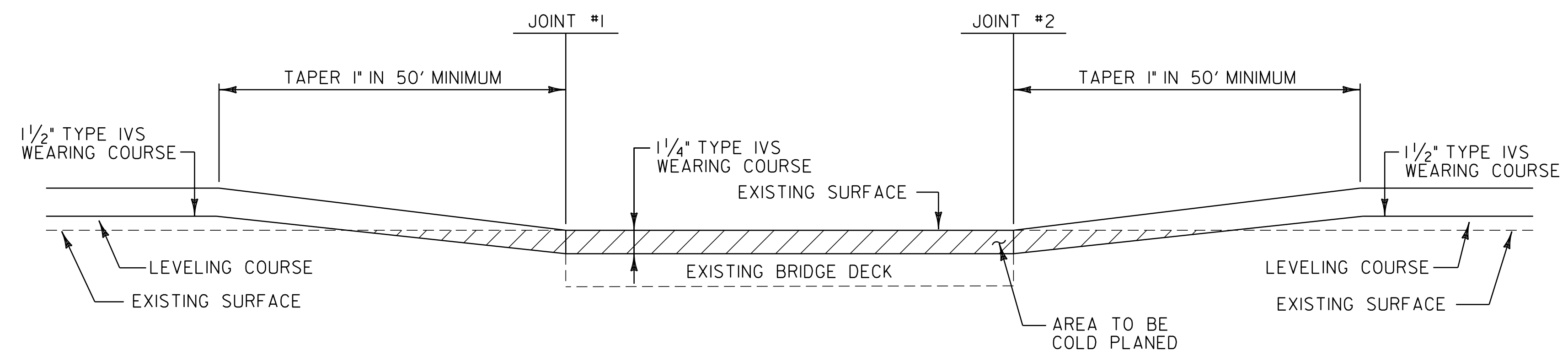
**APPROACH AREA DETAIL - MAINLINE**

FULL ROADWAY WIDTH  
 ST. ALBANS TOWN MM 1.285  
 ST. ALBANS TOWN MM 2.155  
 ST. ALBANS TOWN MM 4.110



**APPROACH AREA DETAIL - TOWN HIGHWAYS**

FULL ROADWAY WIDTH



**BRIDGE TRANSITION AREA DETAIL**

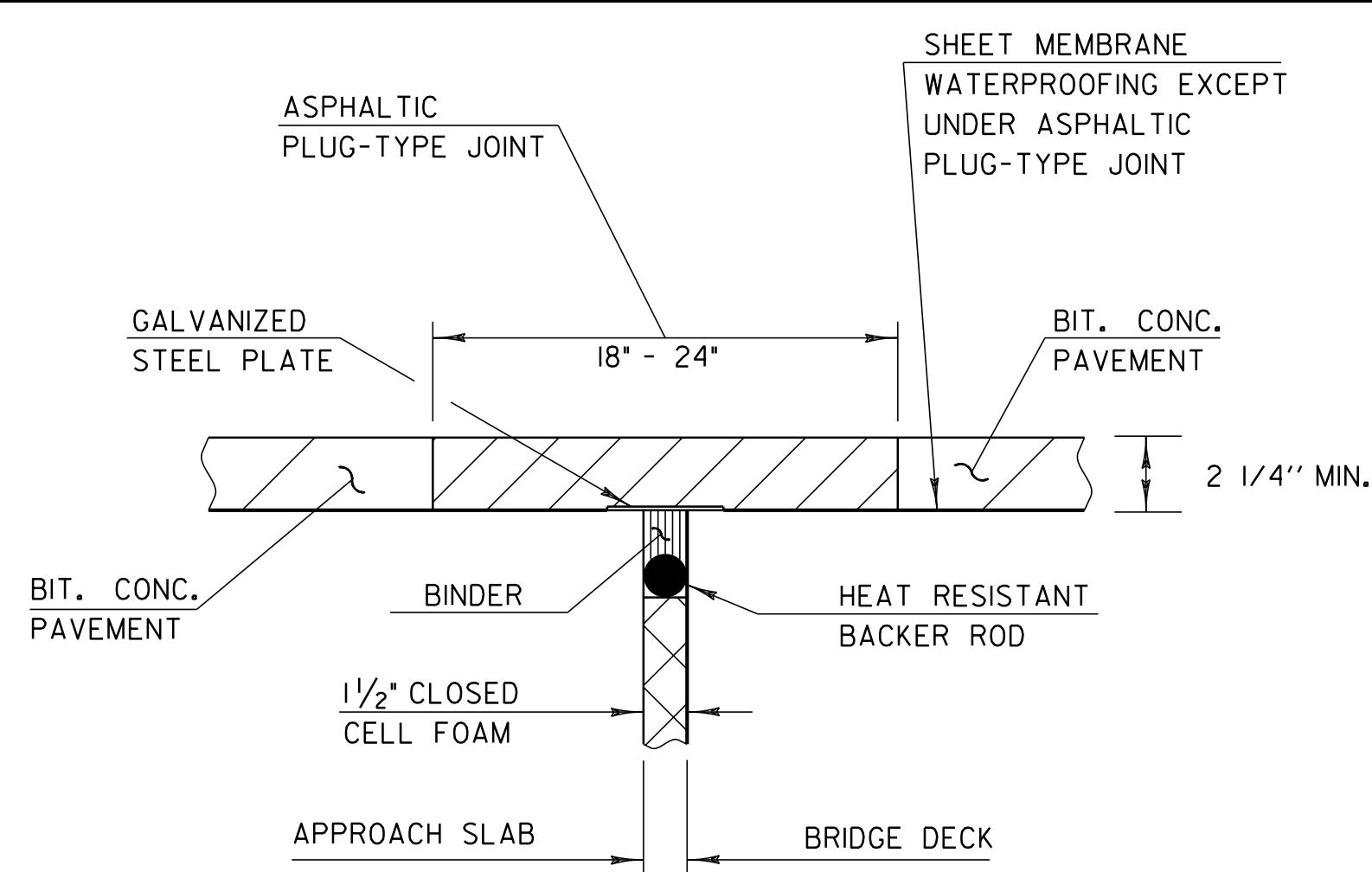
BR 14 VT. ROUTE 104 FAIRFAX MM 9.781  
 BR 20 VT. ROUTE 104 ST. ALBANS TOWN MM 2.865

**620.75 SNOW BARRIER, GALVANIZED**

BR 20 VT. ROUTE 104 ST. ALBANS TOWN MM 2.865 RT & LT (160 LF)  
 FOR DETAILS SEE STD ESFM

**NOT TO SCALE**

<b>PROJECT TYPICAL SHEET # 2</b>	PROJECT NAME: FAIRFAX - ST. ALBANS TOWN	
	PROJECT NUMBER: STP 2217(1)	
	FILE NAME: p99cl86.dgn	PLOT DATE: 11-OCT-2011 11:48
	PROJECT LEADER: T. DOMEY	DRAWN BY: K. LOCKE
	DESIGNED BY: K. LOCKE	CHECKED BY: PAVT MGMT
	IPARM FILE NAME: p99cl86+yp2.i	SHEET 3 OF 25



**ASPHALTIC PLUG TYPE JOINT DETAIL**

BR 20 VT. ROUTE 104 ST. ALBANS TOWN MM 2.865  
 MM 2.834 - 45 FT  
 MM 2.896 - 45 FT

**ASPHALTIC PLUG BRIDGE JOINT  
 GENERAL NOTES**

**INSTALLATION:**

LOCATE THE JOINT CENTRALLY OVER THE DECK OVERLAY EXPANSION GAP OR FIXED JOINT MARKED OUT TO THE MANUFACTURER'S RECOMMENDED WIDTH.

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.

BLAST CLEAN THE JOINT AREA OF DEBRIS, ASPHALT AND SHEET MEMBRANE. THOROUGHLY DRY THE JOINT AREA WITH COMPRESSED AIR PRIOR TO APPLYING BINDER MATERIAL.

REPAIR SPALLED AND DEFECTIVE CONCRETE WITH AN APPROVED MATERIAL AS AGREED UPON BY THE ENGINEER.

PLACE PROPERLY SIZED HEAT RESISTANT BACKER ROD IN THE MOVEMENT GAP ALLOWING FOR 1 INCH +/- OF BINDER ABOVE THE ROD.

HEAT AND PLACE THE BINDER MATERIAL AS RECOMMENDED BY THE MANUFACTURER.

PLACE 1/4 INCH THICK BY 8 INCH WIDE SECTIONS OF STEEL PLATE OVER THE CENTER OF THE MOVEMENT GAP. SECURE THE PLATES FROM MOVING BY INSERTING LOCATING PINS THROUGH THE PRESTAMPED 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.

HEAT AND MIX THE BINDER MATERIAL AND AGGREGATE AS RECOMMENDED BY THE MANUFACTURER.

INSTALLATION OF MATERIAL, COMPACTION, AND TOPCOATING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.

IMMEDIATELY AFTER TOPCOATING, CAST AN ANTI-SKID MATERIAL OVER THE JOINT TO REDUCE THE RISK OF TRACKING.

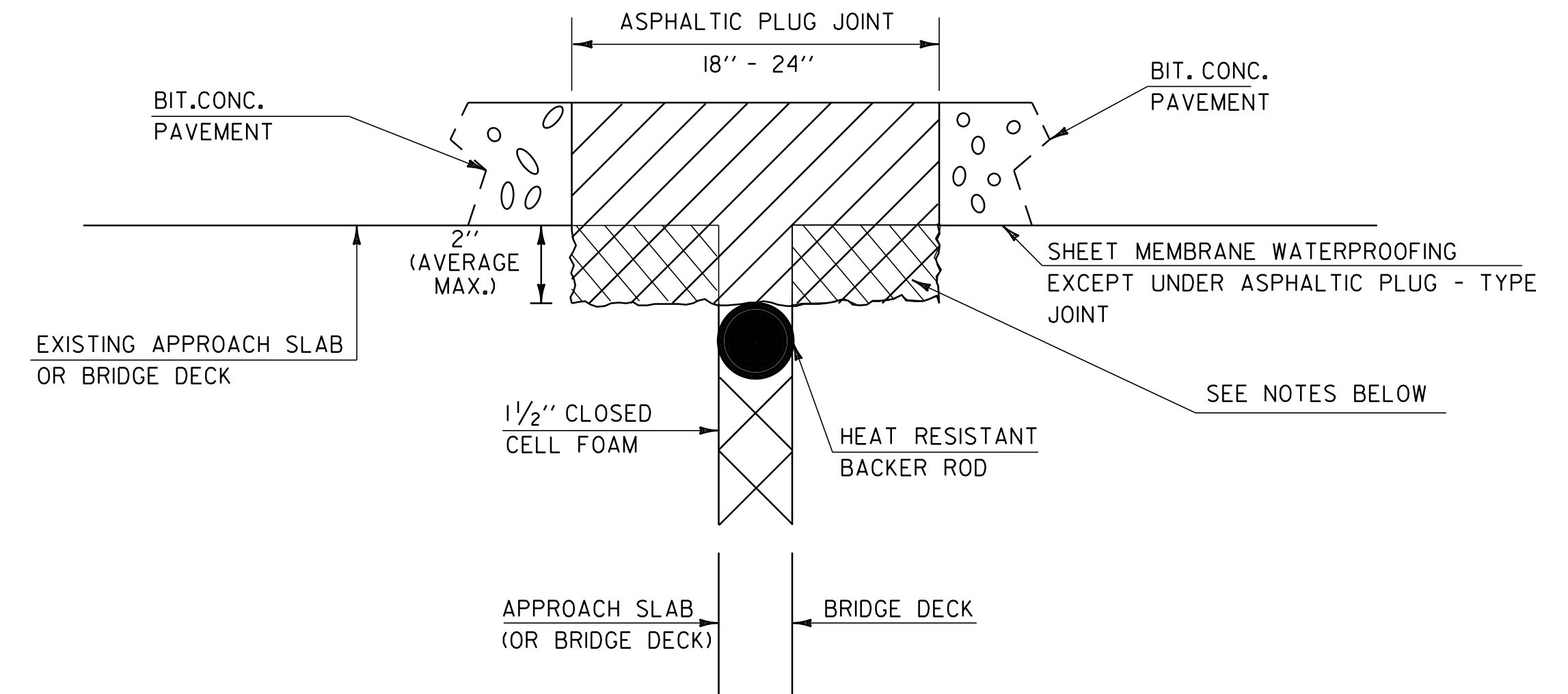
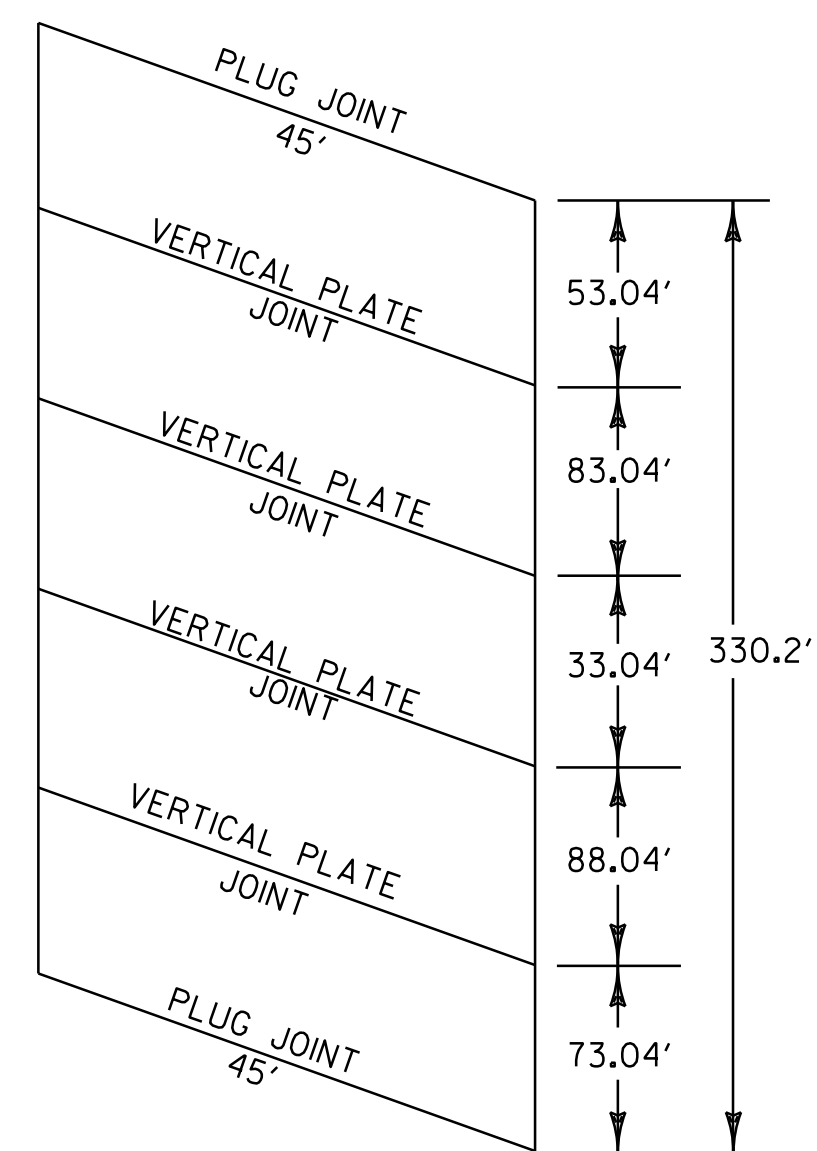
ONCE THE JOINT REACHES 82 DEG C (180 DEF F) +/-, WATER MAY BE USED TO EXPEDITE THE COOLING PROCESS.

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:

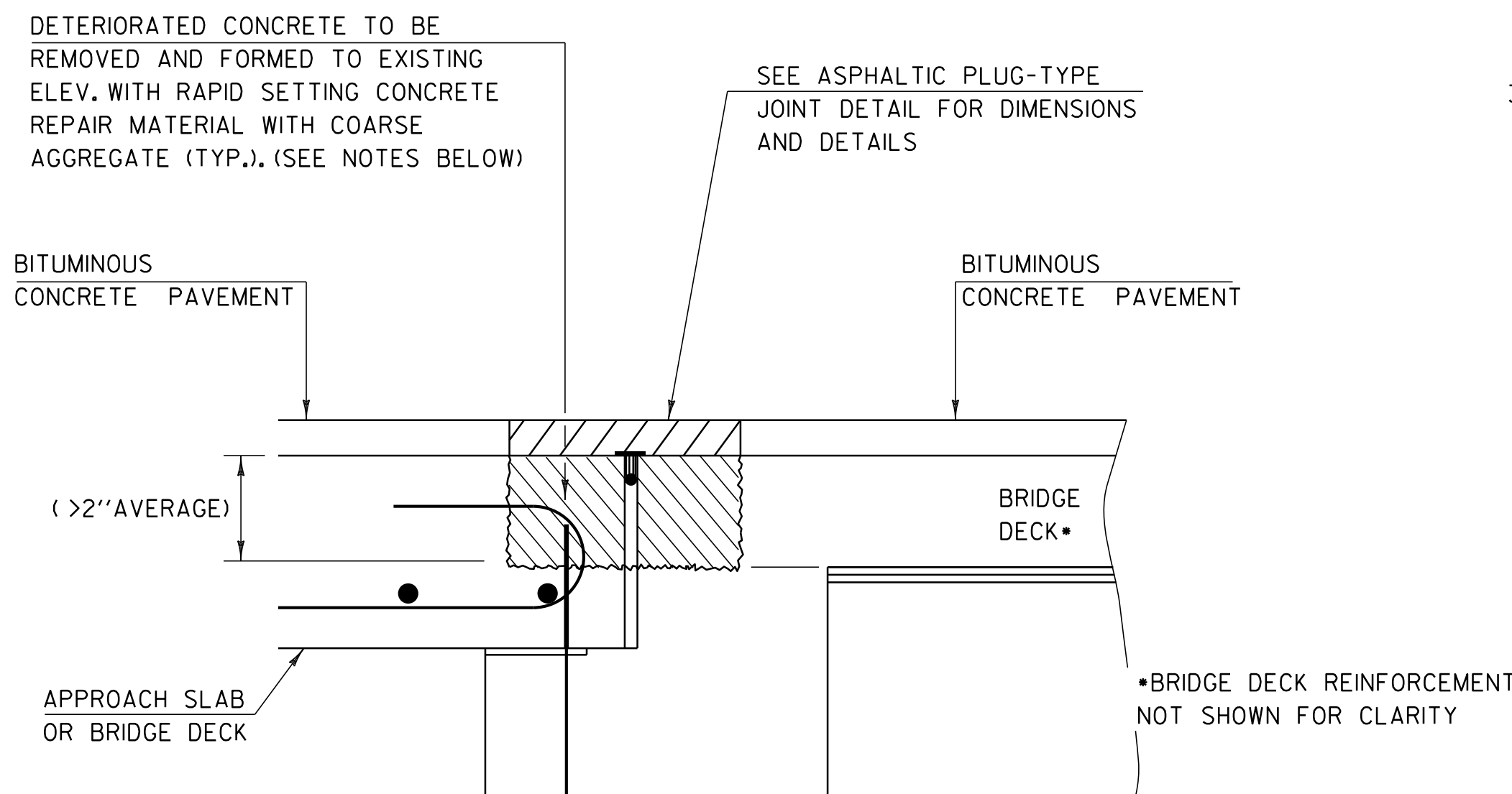
- (A) THE AMBIENT AIR TEMPERATURE IS AT LEAST 10 DEG C (50 DEG F) AND RISING.
- (B) THE ROAD SURFACE IS DRY.
- (C) WEATHER CONDITIONS OR OTHER CONDITIONS ARE FAVORABLE AND ARE EXPECTED TO REMAIN SO FOR THE PERFORMANCE OF THE SATISFACTORY WORK.



**ASPHALTIC PLUG-TYPE JOINT DETAIL**

**NOTES: REMOVAL OF UP TO 2\"/>**

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



**ASPHALTIC PLUG-TYPE JOINT DETAIL  
 REMOVAL OF >2\"/>**

**NOTES:**

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

**NOT TO SCALE**

**ASPHALTIC PLUG  
 JOINT  
 DETAIL SHEET**

PROJECT NAME: FAIRFAX - ST. ALBANS TOWN  
 PROJECT NUMBER: STP 2217(1)  
 FILE NAME: p99cl86.dgn  
 PROJECT LEADER: T. DOMEY  
 DESIGNED BY: K. LOCKE  
 IPARM FILE NAME: p99cl86apjd.i  
 PLOT DATE: 11-OCT-2011 11:48  
 DRAWN BY: K. LOCKE  
 CHECKED BY: PAVT MGMT  
 SHEET 4 OF 25









STATE OF VERMONT  
AGENCY OF TRANSPORTATION

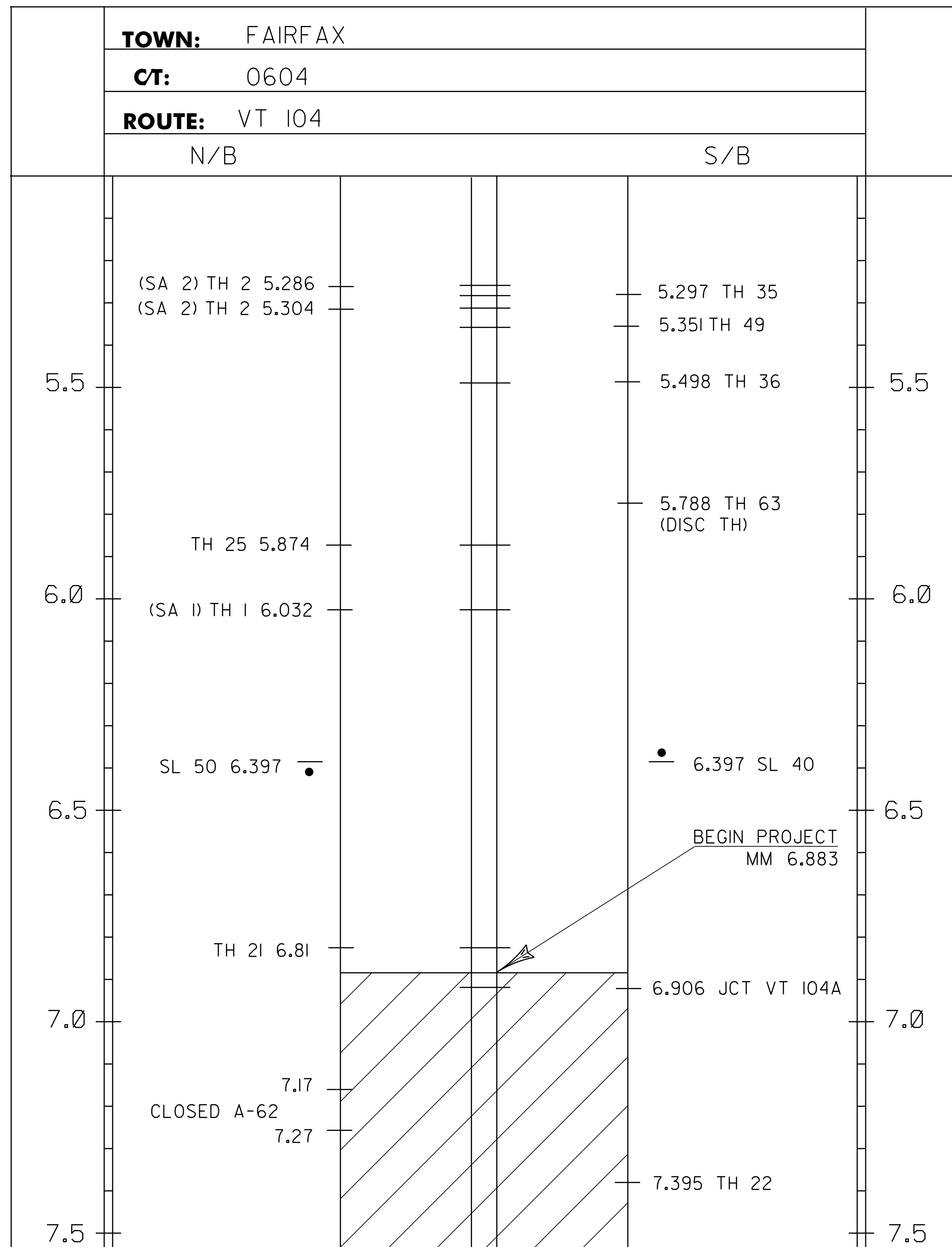
ITEM DETAIL SUMMARY SHEET

BEGIN STATION	END STATION	POS.	604.412	604.415	203.30	402.12	604.418	613.10	616.35	617.10	619.17	620.75	621.20	621.205	621.206	621.50	621.60	621.74	621.80	649.31	653.20	676.10	676.12	REMARKS
			REHAB. D. I. CLASS I, II OR III	STONE FILL, TYPE I																				
FAIRFAX			CY	TON			EACH	CY	LF	EACH	EACH	LF	LF	LF	LF	EACH	EACH	LF	LF	SY	SY	EACH	EACH	
MM 9.710	MM 9.795	LT	50							1			357.5		25	2			437.5		50	2	2	RELOCATE MAILBOX AT MM 9.750 LT
MM 9.790	MM 9.810	RT	50										12.5		25	2			112.5		50	2	2	
MM 12.670	MM 12.709	RT	50										150	25		2			130		50	2	2	
MM 12.670	MM 12.719	LT	50										175			2			150		50	2	2	
MM 12.900		RT					1																	REHAB THROATED D. I. IN DITCHLINE
MM 12.940		RT					1																	REHAB THROATED D. I. IN DITCHLINE
MM 13.011		RT					1																	REHAB THROATED D. I. IN DITCHLINE
MM 13.020	MM 13.095	LT	50					10					384.5			1	1		400	25	50	2	2	REPAIR ERODED SLOPE AT MM 13.050 LT
MM 13.060		RT					1																	REHAB THROATED D. I. IN DITCHLINE
MM 13.380	MM 13.420	RT	50										150			2			225		50	2	2	
MM 13.385	MM 13.430	LT	50										150			2			225		50	2	2	
MM 13.480		RT					1																	REHAB THROATED D. I. IN DITCHLINE
GEORGIA																								
MM 0.020		RT					1																	REHAB THROATED D. I. IN DITCHLINE
ST. ALBANS TWN																								
MM 0.925	MM 0.955	LT	50										62.5		25	2			150		50	2	2	
MM 0.930	MM 0.965	RT	50										112.5		25	2			187.5		50	2	2	
MM 1.560	MM 1.577	RT	50										162.5						137.5		50	2	2	
MM 1.630	MM 1.650	LT	50										137.5			2			137.5		50	2	2	
MM 2.710	MM 2.765	LT	25										212.5		125.0	1	1		400		25	1	1	EXTEND NEW STEEL BEAM GUARDRAIL 50 FT DOWN TH 8, MATCH INTO EXISTING STEEL BEAM GUARDRAIL.
MM 2.780	MM 2.820	RT	25					175					212.5				1	25	225		25	1	1	
MM 2.795	MM 2.830	LT	25										175				1	25	187.5		25	1	1	
MM 2.865		RT & LT										160												INSTALL NEW SNOW BARRIER, GALVANIZED BRIDGE 20
MM 2.900	MM 2.920	RT	25				1	75					87.5				1	25	100		25	1	1	REHAB D. I. AT MM 2.914 RT
MM 2.945	MM 2.970	LT	25										162.5				1	25	175		25	1	1	
S. A. S. H.																								
MM 0.630	MM 0.660	RT	50										87.5			2			162.5		50	2	2	
MM 0.670	MM 0.700	LT	50										87.5			2			162.5		50	2	2	
LENGTH OF PROJECT **		LT & RT		4,600							75			100									50	
ROUNDING													12.5										3	
TOTAL			775	4,600			7	10	250	1	75	160	3,095	100	100	17	14	100	3,680	25	775	3+35	80	

\*\* ESTIMATED QUANTITIES TO BE USED AS DIRECTED BY THE ENGINEER

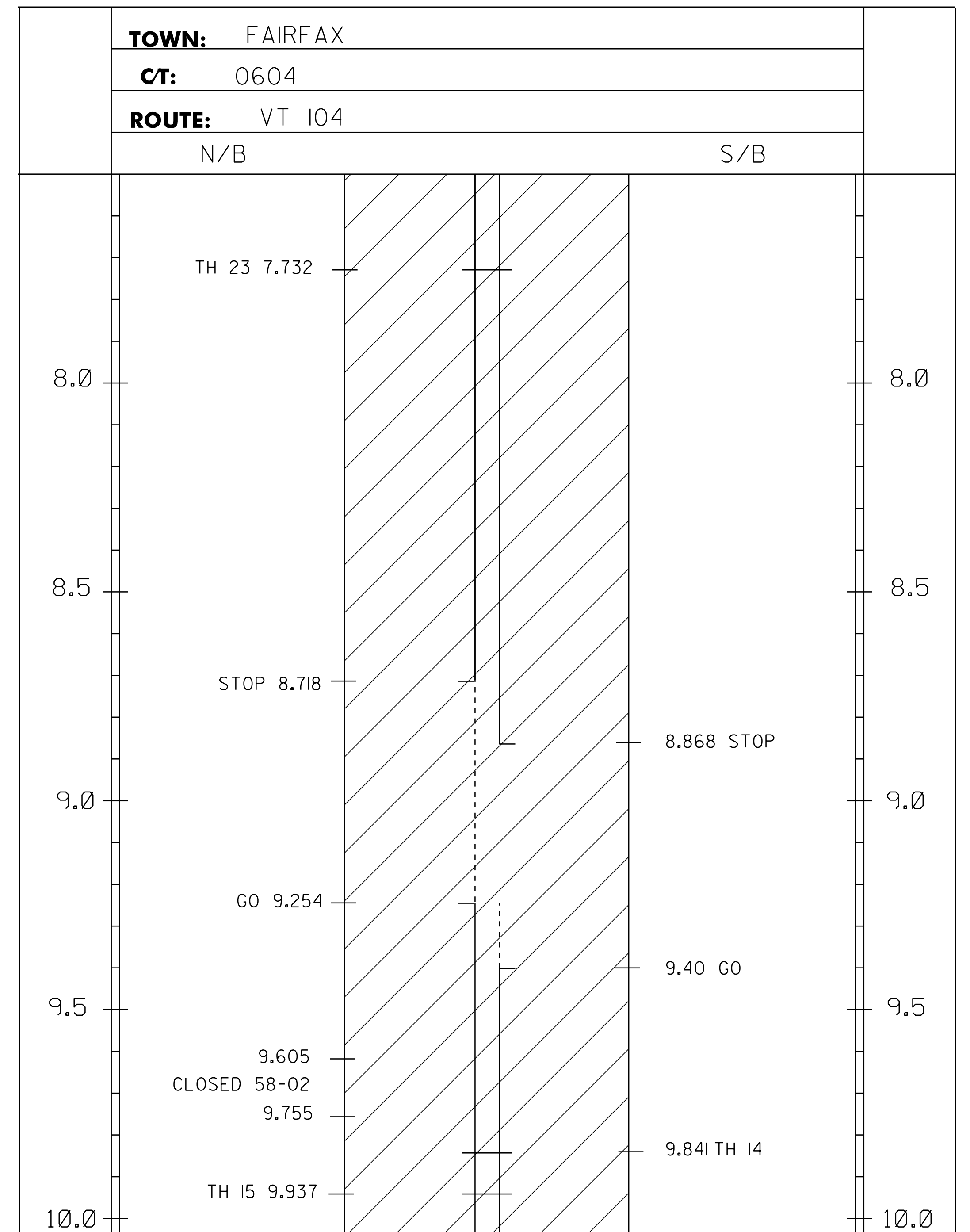
<b>ITEM DETAIL SUMMARY SHEET</b>	PROJECT NAME: FAIRFAX - ST. ALBANS TOWN	PLOT DATE: 11-OCT-2011 11:48 DRAWN BY: K. LOCKE CHECKED BY: PAVT MGMT SHEET 9 OF 25
	PROJECT NUMBER: STP 2217(1)	
	FILE NAME: p99ci86.dgn	
	PLOT FILE: p99ci861dsl.i	





646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 MM 6.883 - MM 10.000 LT & RT  
 (WITH BREAKS OR RADII FOR TOWN HIGHWAYS)

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 MM 6.883 - MM 8.718 SOLID LT & RT  
 MM 8.718 - MM 8.868 SOLID LT, DASHED RT  
 MM 8.868 - MM 9.254 DASHED RT  
 MM 9.254 - MM 9.400 DASHED LT, SOLID RT  
 MM 9.400 - MM 10.000 SOLID LT & RT  
 (WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

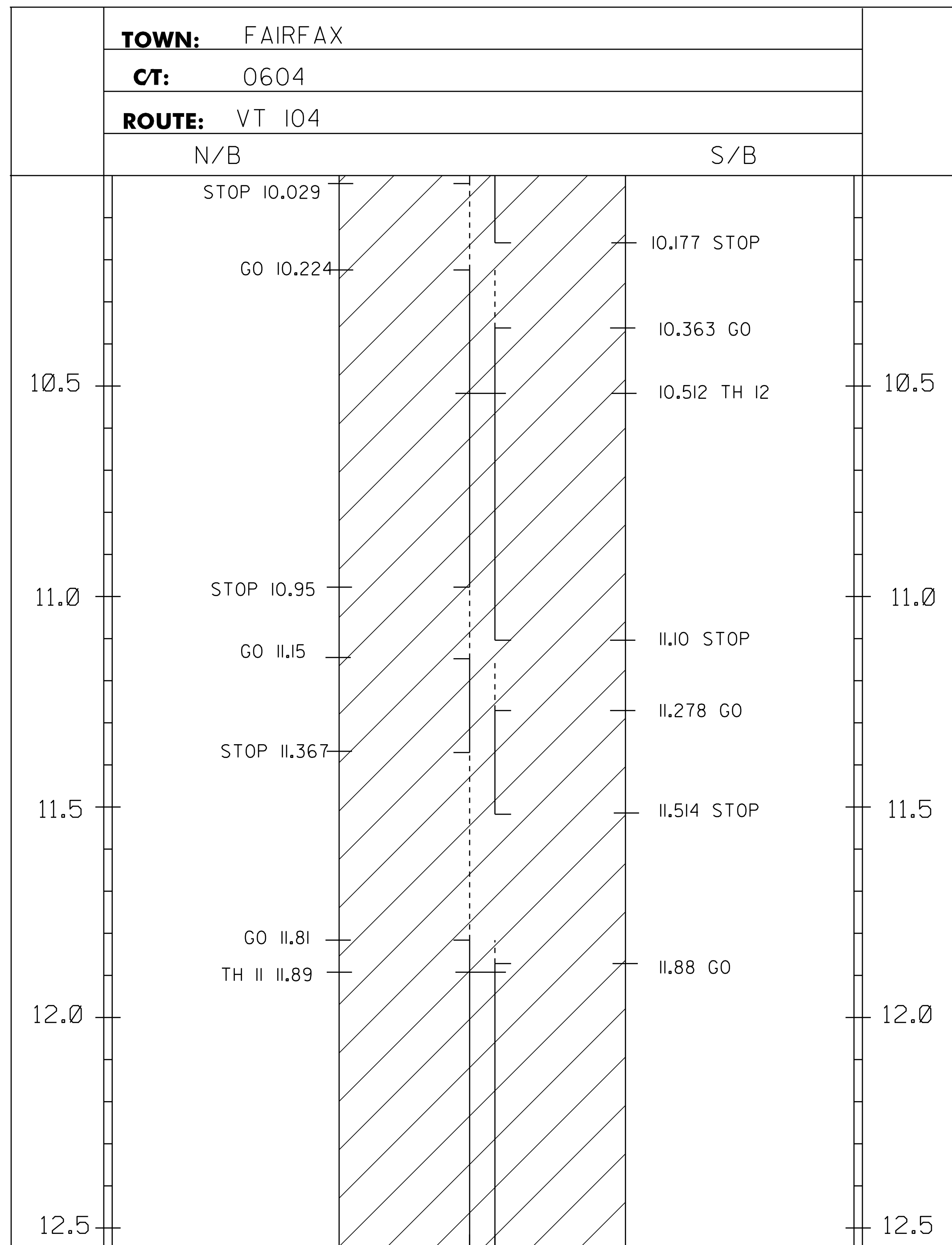


NOTES:  
 THIS SHEET TO BE USED FOR THE LAYOUT OF ALL PAVEMENT MARKINGS. THE RESIDENT ENGINEER MAY CONTACT KEITH SWEET,  
 PAVEMENT MARKING SUPERVISOR AT (802)828-5573 FOR ASSISTANCE LAYING OUT THE CENTERLINE DURING CONSTRUCTION.



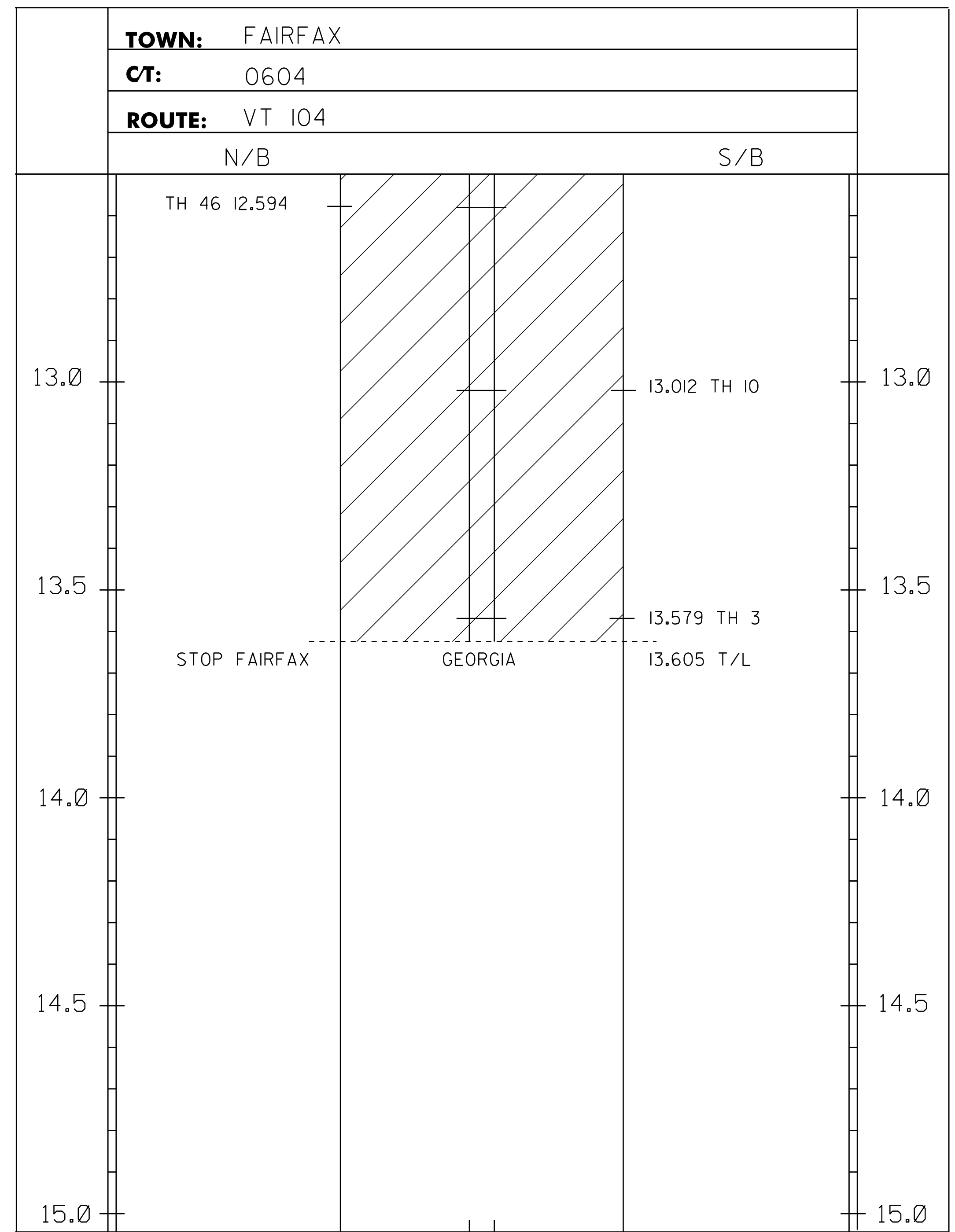
<b>PROJECT LAYOUT SHEET #1</b>	PROJECT NAME: FAIRFAX - ST. ALBANS TOWN	
	PROJECT NUMBER: STP 2217(I)	
FILE NAME: p99cl86.dgn	PLOT DATE: 11-OCT-2011 11:48	
PROJECT LEADER: T. DOMEY	DRAWN BY: K. LOCKE	
DESIGNED BY: K. LOCKE	CHECKED BY: PAVT MGMT	
IPARM FILE NAME: p99cl86101.i	SHEET 11 OF 25	

**NOT TO SCALE**



646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
MM 10.000 - MM 13.605 SOLID LT & RT  
(WITH BREAKS OR RADII FOR TOWN HIGHWAYS)

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
MM 10.000 - MM 10.029 SOLID LT & RT  
MM 10.029 - MM 10.177 SOLID LT, DASHED RT  
MM 10.177 - MM 10.224 DASHED RT  
MM 10.224 - MM 10.363 DASHED LT, SOLID RT  
MM 10.363 - MM 10.950 SOLID LT & RT  
MM 10.950 - MM 11.100 SOLID LT, DASHED RT  
MM 11.100 - MM 11.150 DASHED RT  
MM 11.150 - MM 11.278 DASHED LT, SOLID RT  
MM 11.278 - MM 11.367 SOLID LT & RT  
MM 11.367 - MM 11.514 SOLID LT, DASHED RT  
MM 11.514 - MM 11.810 DASHED RT  
MM 11.810 - MM 11.880 DASHED LT, SOLID RT  
MM 11.880 - MM 13.605 SOLID LT & RT  
(WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

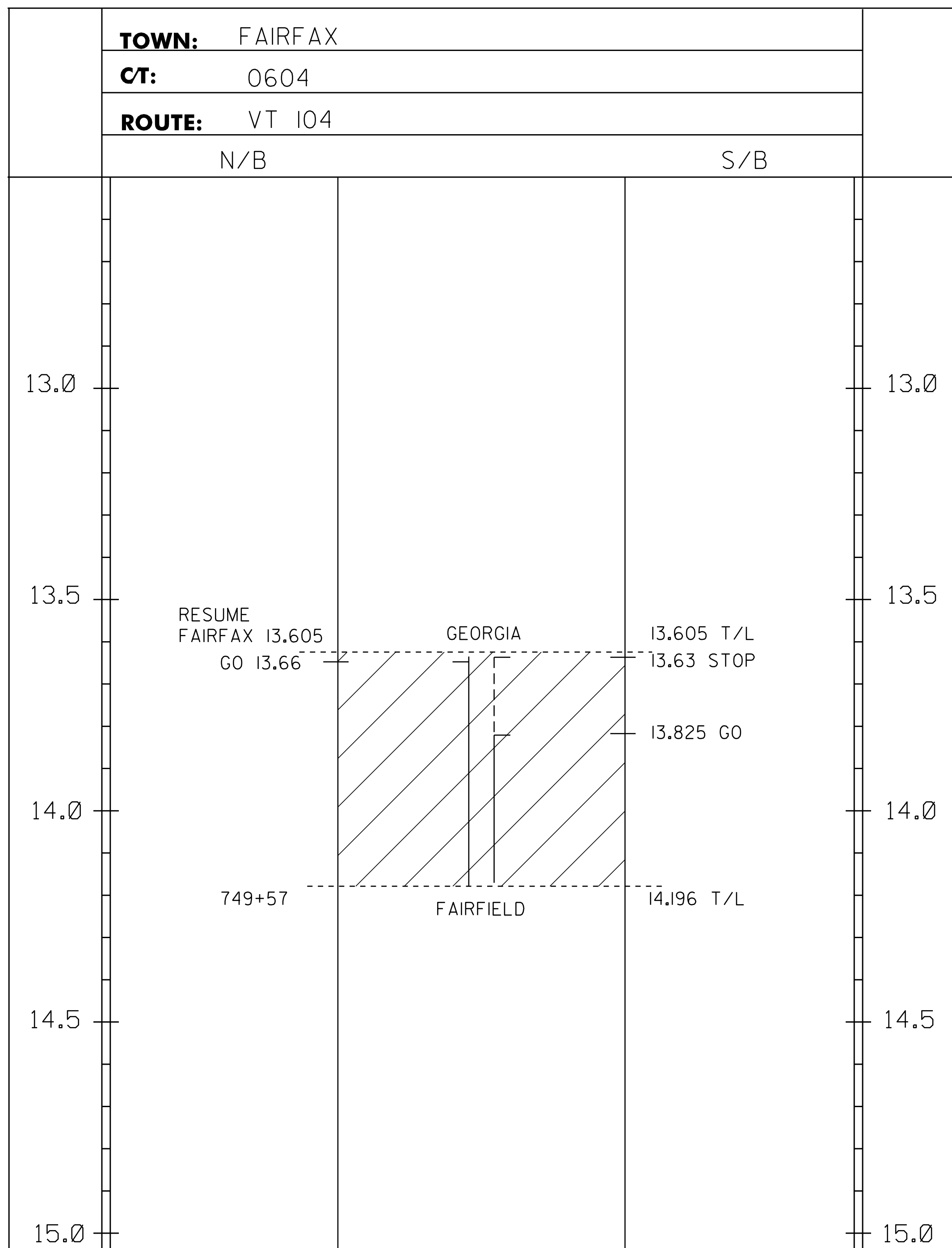


NOTES:  
THIS SHEET TO BE USED FOR THE LAYOUT OF ALL PAVEMENT MARKINGS. THE RESIDENT ENGINEER MAY CONTACT KEITH SWEET, PAVEMENT MARKING SUPERVISOR AT (802)828-5573 FOR ASSISTANCE LAYING OUT THE CENTERLINE DURING CONSTRUCTION.



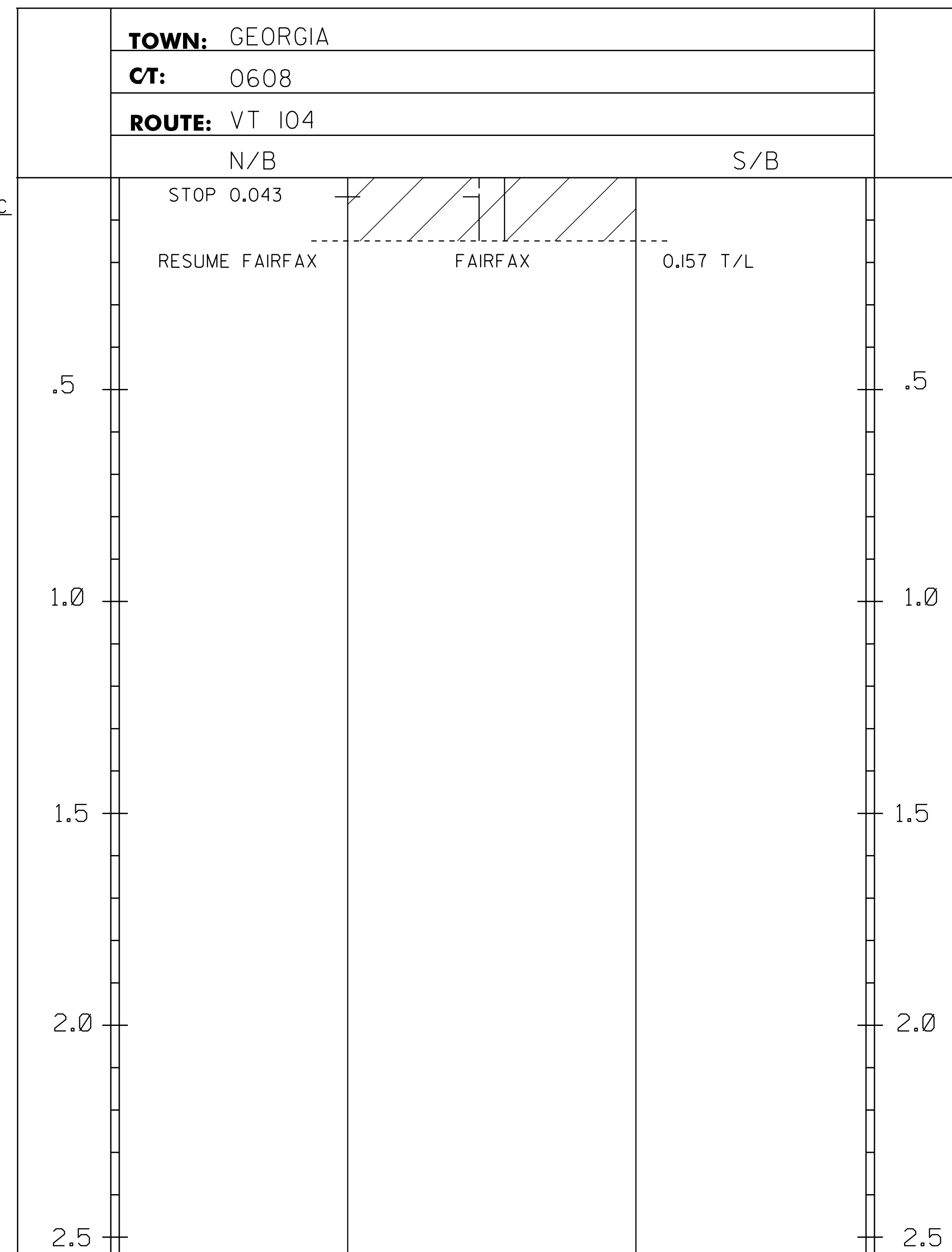
**NOT TO SCALE**

<b>PROJECT LAYOUT SHEET #2</b>	PROJECT NAME: FAIRFAX - ST. ALBANS TOWN	
	PROJECT NUMBER: STP 2217(I)	
FILE NAME: p99cl86.dgn	PROJECT LEADER: T. DOMEY	PLOT DATE: 11-OCT-2011 11:48
DESIGNED BY: K. LOCKE	IPARM FILE NAME: p99cl86i02.i	DRAWN BY: K. LOCKE
		CHECKED BY: PAVT MGMT
		SHEET 12 OF 25



646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 MM 13.605 - MM 14.196 SOLID LT & RT (FAIRFAX)  
 MM 0.000 - MM 0.157 SOLID LT & RT (GEORGIA)  
 (WITH BREAKS OR RADII FOR TOWN HIGHWAYS)

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 FAIRFAX  
 MM 13.605 - MM 13.630 DASHED LT  
 MM 13.605 - MM 13.660 DASHED RT  
 MM 13.630 - MM 13.825 DASHED LT, SOLID RT  
 MM 13.825 - MM 14.196 SOLID LT, DASHED RT  
 GEORGIA  
 MM 0.000 - MM 0.043 SOLID LT, DASHED RT  
 MM 0.043 - MM 0.157 SOLID LT & RT  
 (WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

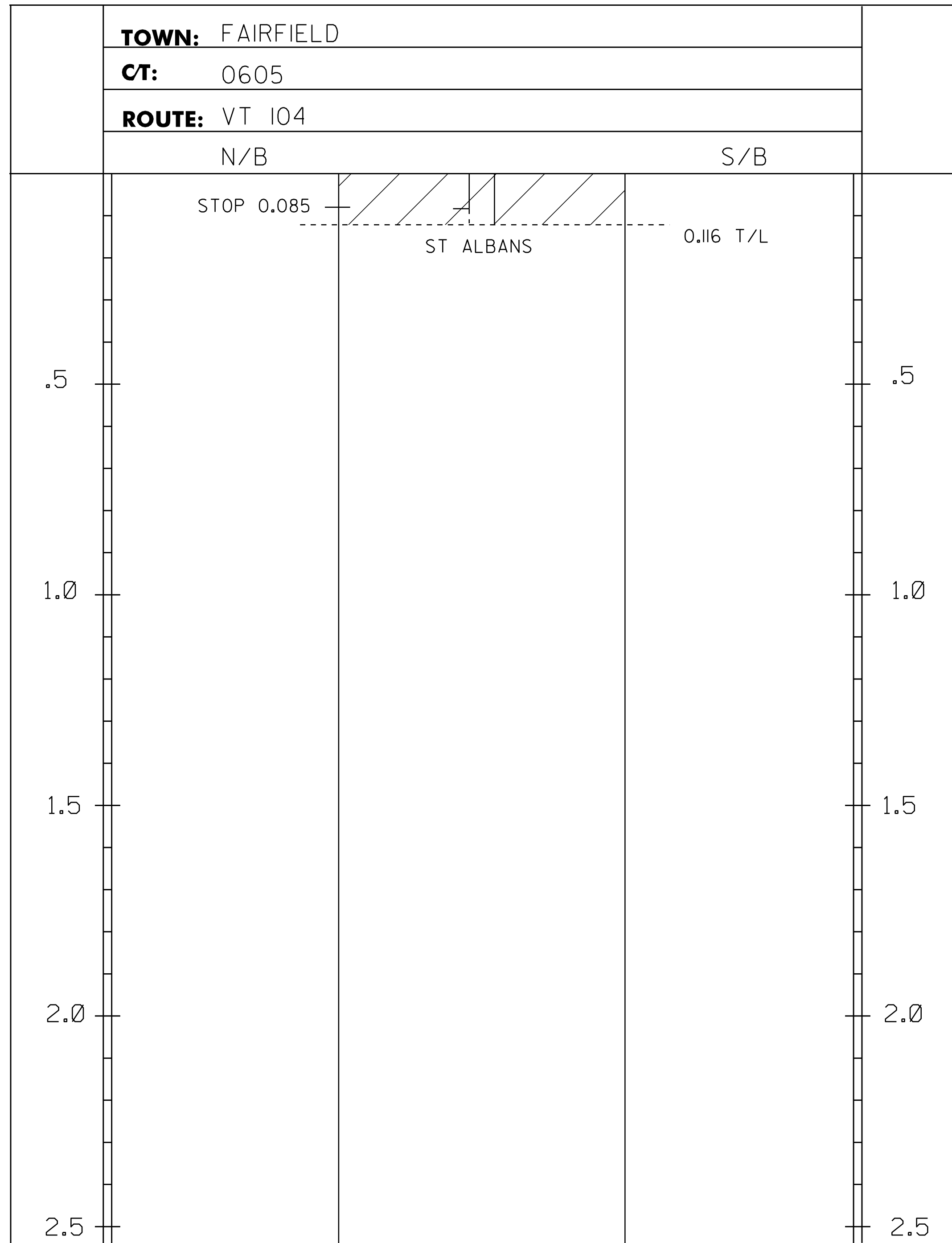


NOTES:  
 THIS SHEET TO BE USED FOR THE LAYOUT OF ALL PAVEMENT MARKINGS. THE RESIDENT ENGINEER MAY CONTACT KEITH SWEET,  
 PAVEMENT MARKING SUPERVISOR AT (802)828-5573 FOR ASSISTANCE LAYING OUT THE CENTERLINE DURING CONSTRUCTION.



<b>PROJECT LAYOUT SHEET #3</b>	PROJECT NAME: FAIRFAX - ST. ALBANS TOWN	
	PROJECT NUMBER: STP 2217(I)	
	FILE NAME: p99cl86.dgn	PLOT DATE: 11-OCT-2011 11:49
PROJECT LEADER: T. DOMEY	DRAWN BY: K. LOCKE	
DESIGNED BY: K. LOCKE	CHECKED BY: PAVT MGMT	
IPARM FILE NAME: p99cl86i03.i	SHEET 13 OF 25	

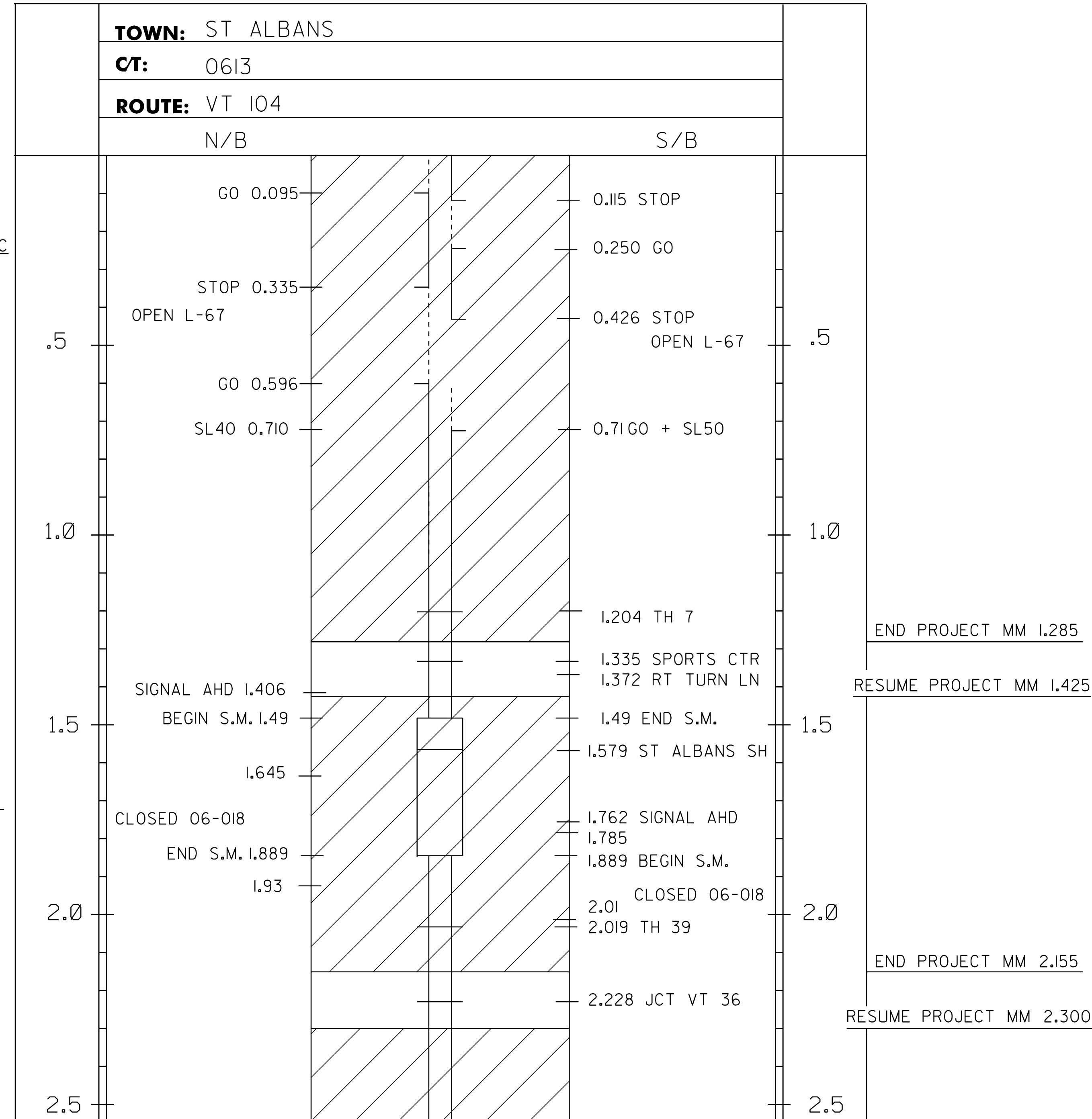
**NOT TO SCALE**



646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 MM 0.000 - MM 0.116 SOLID LT & RT (FAIRFIELD)  
 MM 0.000 - MM 1.285 SOLID LT & RT (ST. ALBANS)  
 MM 1.425 - MM 2.155 SOLID LT & RT (ST. ALBANS)  
 MM 2.300 - MM 2.500 SOLID LT & RT (ST. ALBANS)  
 (WITH BREAKS OR RADII FOR TOWN HIGHWAYS)

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 MM 0.000 - MM 0.085 SOLID LT & RT (FAIRFIELD)  
 MM 0.085 - MM 0.116 SOLID LT, DASHED RT (FAIRFIELD)  
 MM 0.000 - MM 0.095 SOLID LT, DASHED RT (ST. ALBANS)  
 MM 0.095 - MM 0.115 SOLID LT & RT (ST. ALBANS)  
 MM 0.115 - MM 0.250 DASHED LT, SOLID RT (ST. ALBANS)  
 MM 0.250 - MM 0.335 SOLID LT & RT (ST. ALBANS)  
 MM 0.335 - MM 0.426 SOLID LT, DASHED RT (ST. ALBANS)  
 MM 0.426 - MM 0.596 DASHED RT (ST. ALBANS)  
 MM 0.596 - MM 0.710 DASHED LT, SOLID RT (ST. ALBANS)  
 MM 0.710 - MM 1.285 SOLID LT & RT (ST. ALBANS)  
 MM 1.425 - MM 1.490 SOLID LT & RT (ST. ALBANS)  
 MM 1.490 - MM 1.889 SPECIAL MARKINGS (ST. ALBANS)  
 MM 1.889 - MM 2.155 SOLID LT & RT (ST. ALBANS)  
 MM 2.300 - MM 2.500 SOLID LT & RT (ST. ALBANS)  
 (WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC  
 MM 1.762 LT SIGNAL AHEAD (11EACH)

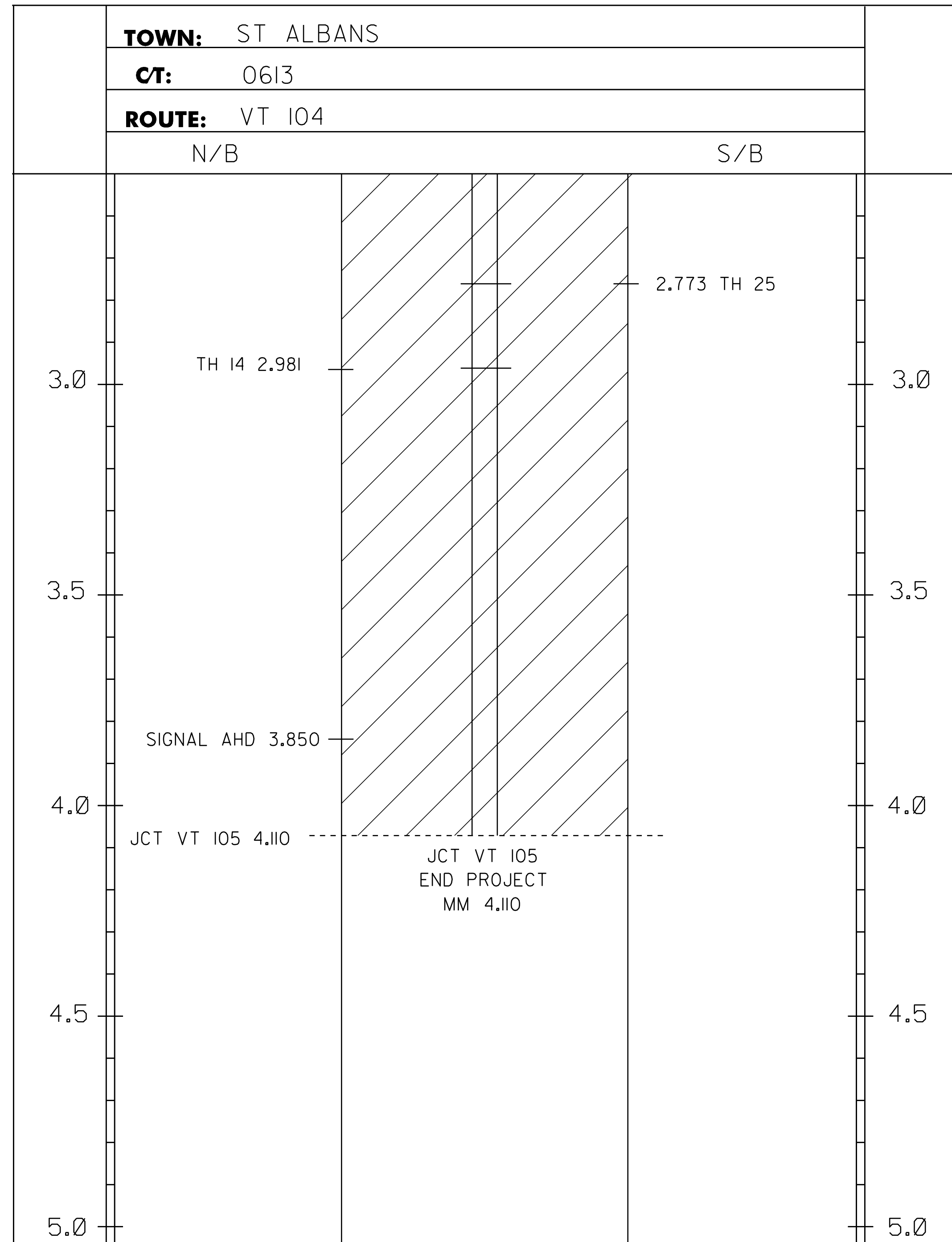


**NOTES:**  
 THIS SHEET TO BE USED FOR THE LAYOUT OF ALL PAVEMENT MARKINGS. THE RESIDENT ENGINEER MAY CONTACT KEITH SWEET, PAVEMENT MARKING SUPERVISOR AT (802)828-5573 FOR ASSISTANCE LAYING OUT THE CENTERLINE DURING CONSTRUCTION. THE LOCATIONS OF ALL SPECIAL MARKINGS SHOULD BE STAKED BY THE RESIDENT ENGINEER PRIOR TO ANY PAVING OR COLD PLANING SO THAT THEY MAY BE LAID OUT FOR THE FINAL MARKING APPLICATION.



**NOT TO SCALE**

<b>PROJECT LAYOUT SHEET #4</b>	PROJECT NAME: FAIRFAX - ST. ALBANS TOWN	
	PROJECT NUMBER: STP 2217(1)	
FILE NAME: p99cl86.dgn	PLOT DATE: 11-OCT-2011 11:49	
PROJECT LEADER: T. DOMEY	DRAWN BY: K. LOCKE	
DESIGNED BY: K. LOCKE	CHECKED BY: PAVT MGMT	
IPARM FILE NAME: p99cl86104.i	SHEET 14 OF 25	

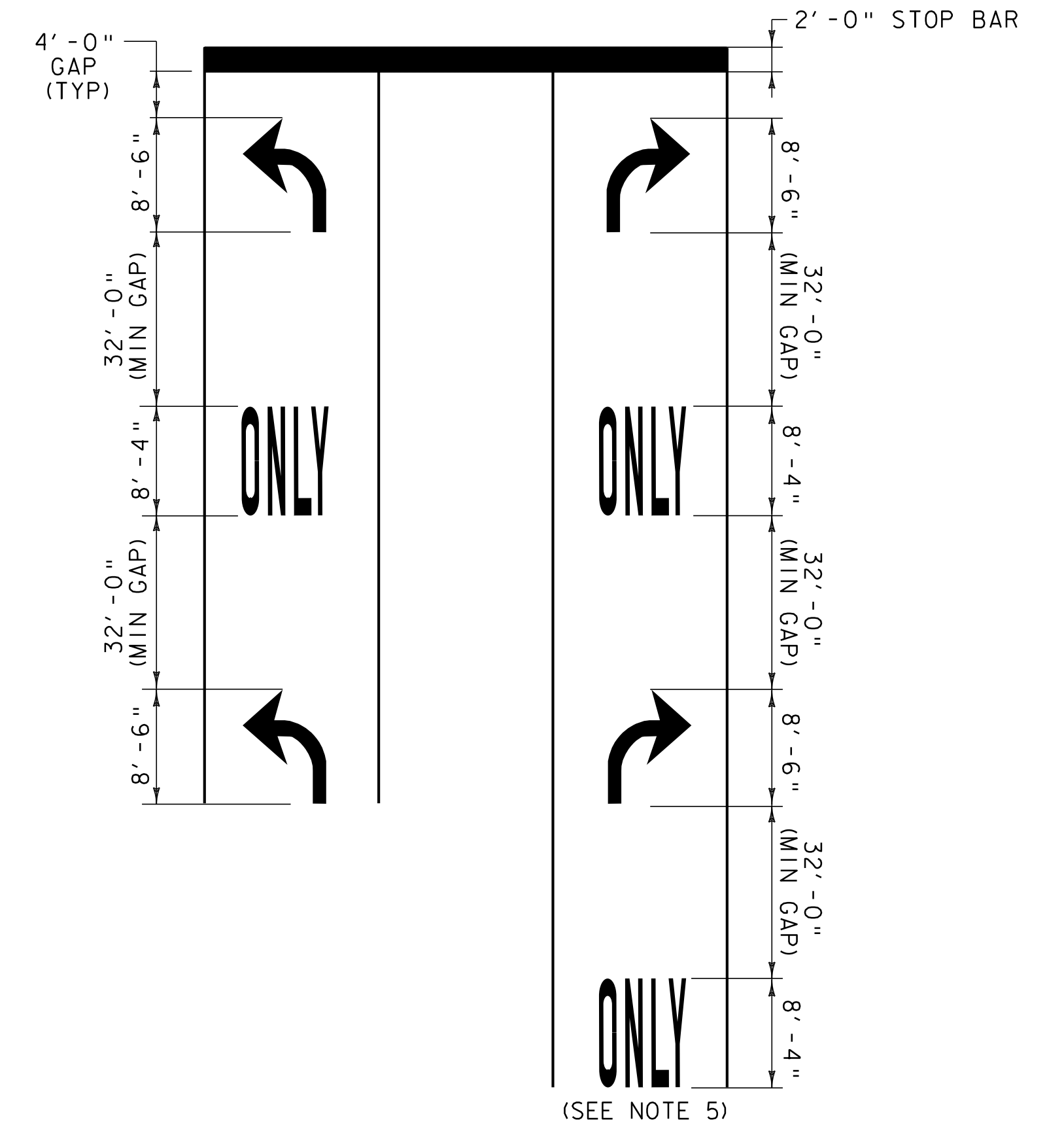


646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC  
 MM 2.500 - MM 4.081 SOLID LT & RT  
 (WITH BREAKS OR RADII FOR TOWN HIGHWAYS)

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC  
 MM 2.500 - MM 4.081 SOLID LT & RT  
 (WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC  
 MM 4.050 RT (15 LF)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC  
 MM 3.850 RT SIGNAL AHEAD (11 EACH)



**TYPICAL MARKINGS FOR TURN LANES**

**NOTES:**

1. MARKINGS START AT THE BEGINNING OF SOLID LANE LINE.
2. THE "ONLY" WORD MARKINGS SHALL BE USED TO SUPPLEMENT LANE-USE ARROW MARKINGS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.
3. IF LANE LENGTH IS LESS THAN 50 FEET, ONLY ONE TURN ARROW PLACED AT THE BEGINNING OF THE SOLID LANE LINE IS REQUIRED.
4. THE LONGITUDINAL SPACE BETWEEN WORD OR SYMBOL MESSAGE MARKINGS SHOULD BE AT LEAST FOUR TIMES THE HEIGHT OF THE CHARACTERS USED FOR LOW SPEED ROADS, BUT NOT MORE THAN TEN TIMES THE HEIGHT OF THE CHARACTERS UNDER ANY CONDITIONS.
5. A SECOND "ONLY" IS OPTIONAL WHEN SPACE PERMITS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.
6. 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.

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



**PROJECT LAYOUT SHEET #5**

PROJECT NAME: FAIRFAX - ST. ALBANS TOWN  
 PROJECT NUMBER: STP 2217(1)

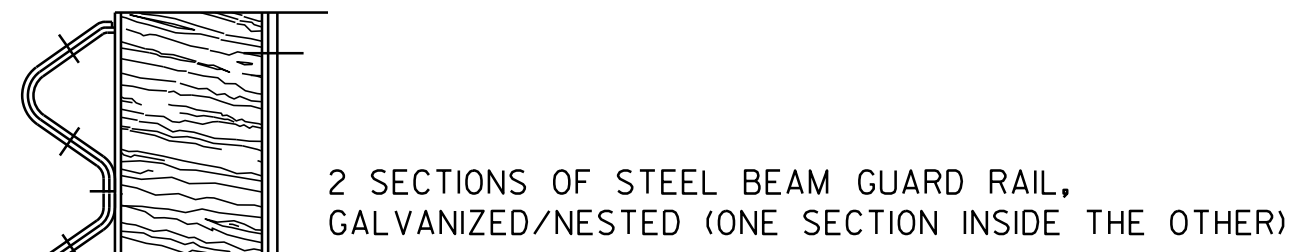
FILE NAME: p99cl86.dgn	PLOT DATE: 11-OCT-2011 11:49
PROJECT LEADER: T. DOMEY	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: PAVT MGMT
IPARM FILE NAME: p99cl86105.i	SHEET 15 OF 25

**NOT TO SCALE**

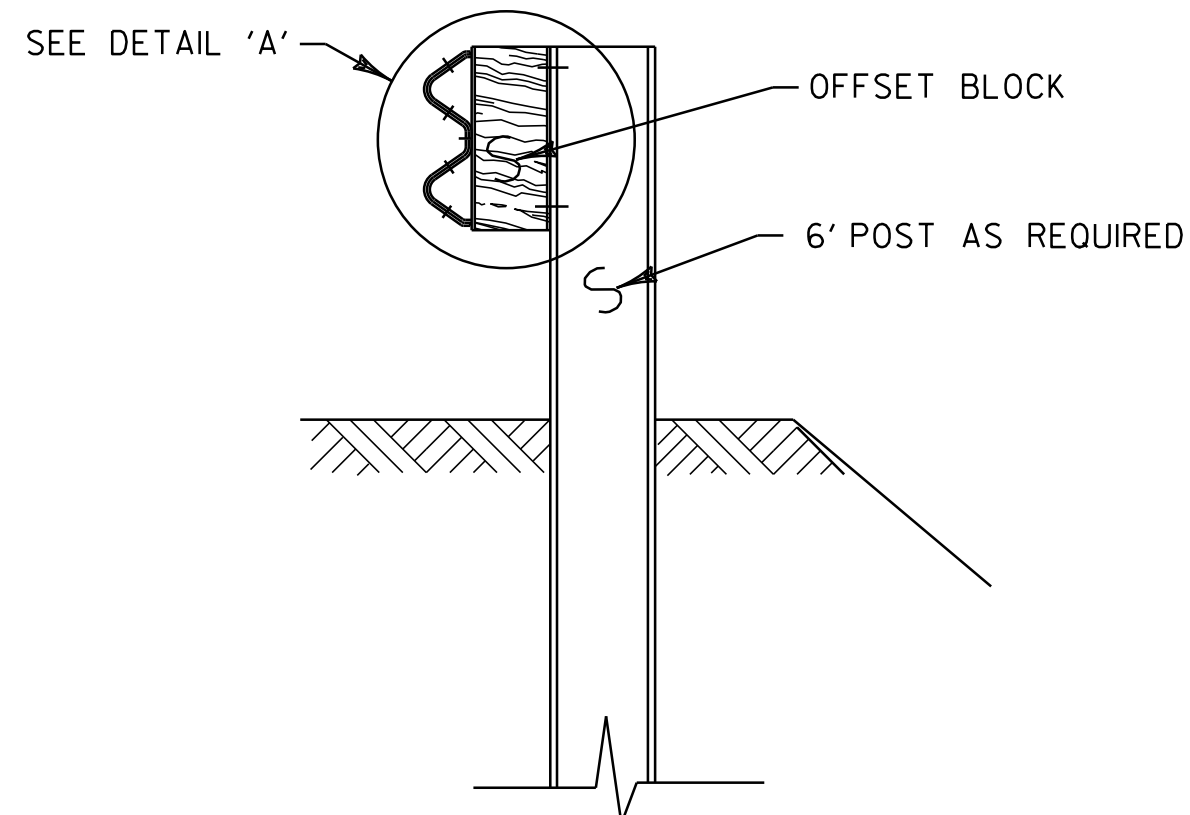




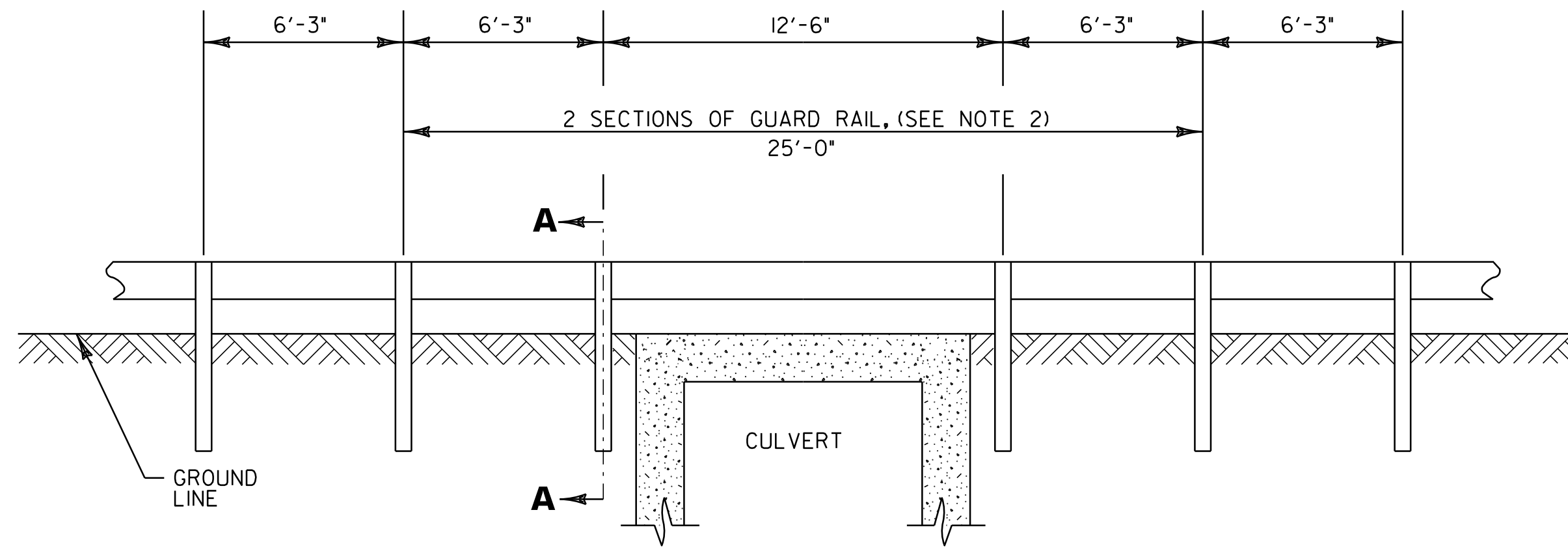




**DETAIL A**



**SECTION A-A**

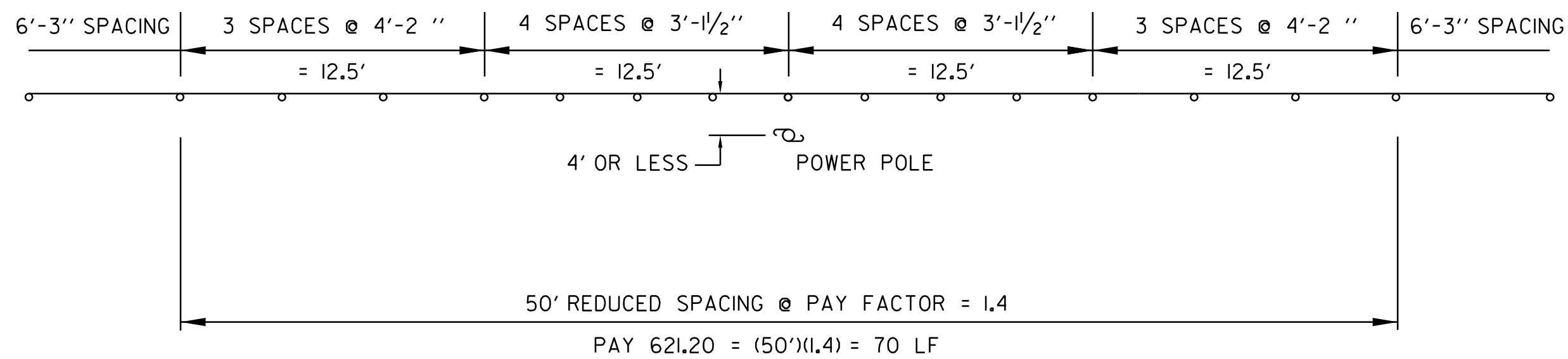


**DETAIL OF STEEL BEAM GUARD RAIL AT LARGE CULVERTS**

FAIRFAX MM 9.781LT & RT (BRIDGE #14)  
ST. ALBANS TOWN MM 0.953 LT & RT (BRIDGE #17)

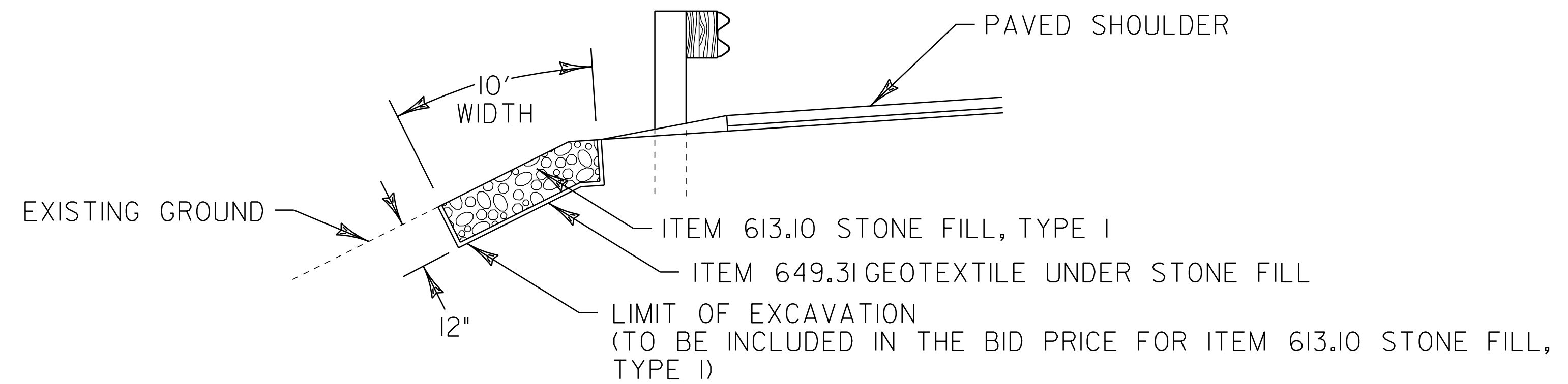
**NOTES:**

1. SEE VAOT STANDARDS G-1 & G-1d FOR STEEL BEAM GUARD RAIL DETAILS
2. THIS WORK SHALL BE PAID UNDER ITEM 621.206, STEEL BEAM GUARDRAIL, GALVANIZED/NESTED.
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 DETAIL**

OBJECTS WITHIN 4.0' OF GUARDRAIL (N.T.S.)  
FAIRFAX MM 9.750 LT UTILITY POLE  
FAIRFAX MM 13.050 LT UTILITY POLE



**SLOPE EROSION REPAIR DETAIL**

FAIRFAX MM 13.050 LT

**NOT TO SCALE**

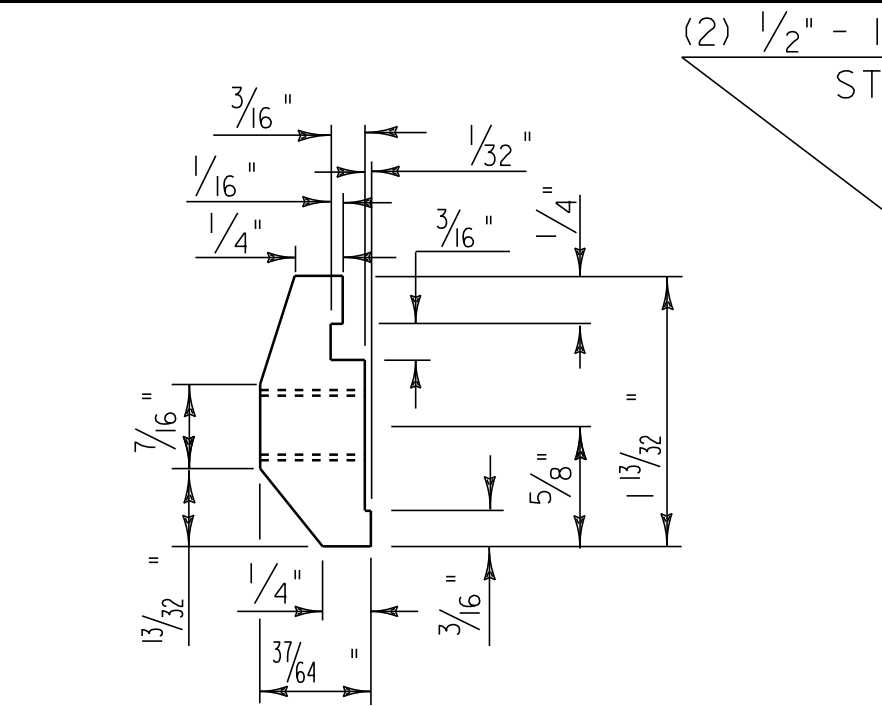
**GUARDRAIL AND MISCELLANEOUS DETAIL SHEET**

PROJECT NAME: FAIRFAX - ST. ALBANS TOWN  
PROJECT NUMBER: STP 2217(1)

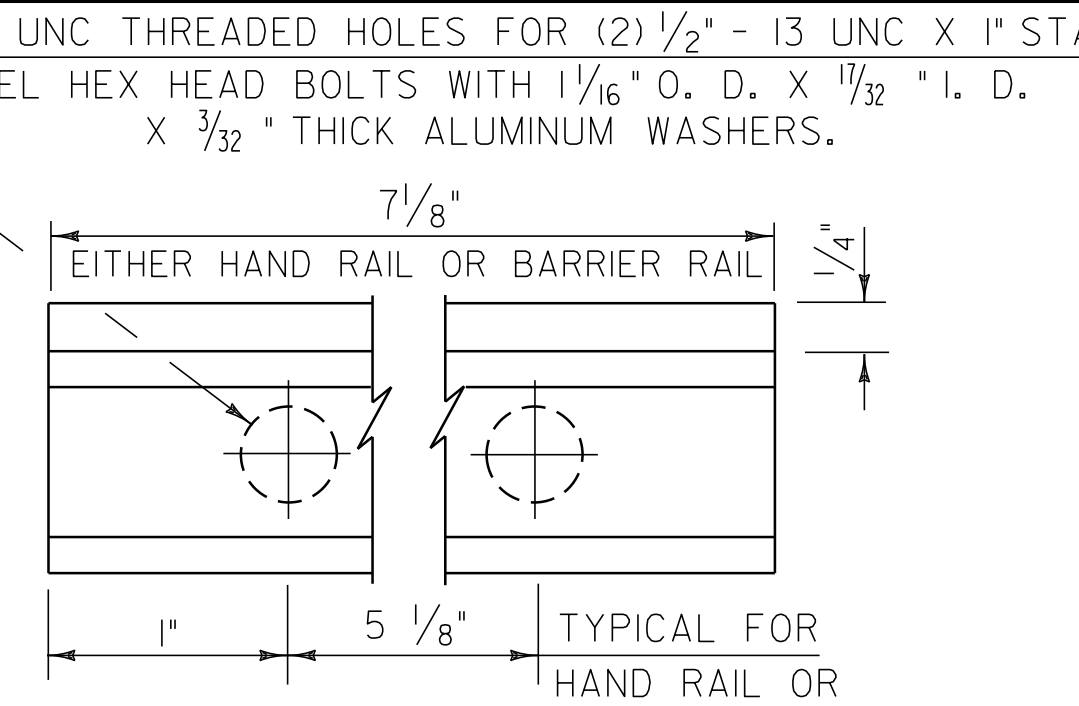
FILE NAME: p99cl86.dgn  
PROJECT LEADER: T. DOMEY  
DESIGNED BY: K. LOCKE  
IPARM FILE NAME: p99cl86gds.i

PLOT DATE: 11-OCT-2011 11:49  
DRAWN BY: K. LOCKE  
CHECKED BY: PAVT MGMT  
SHEET 19 OF 25

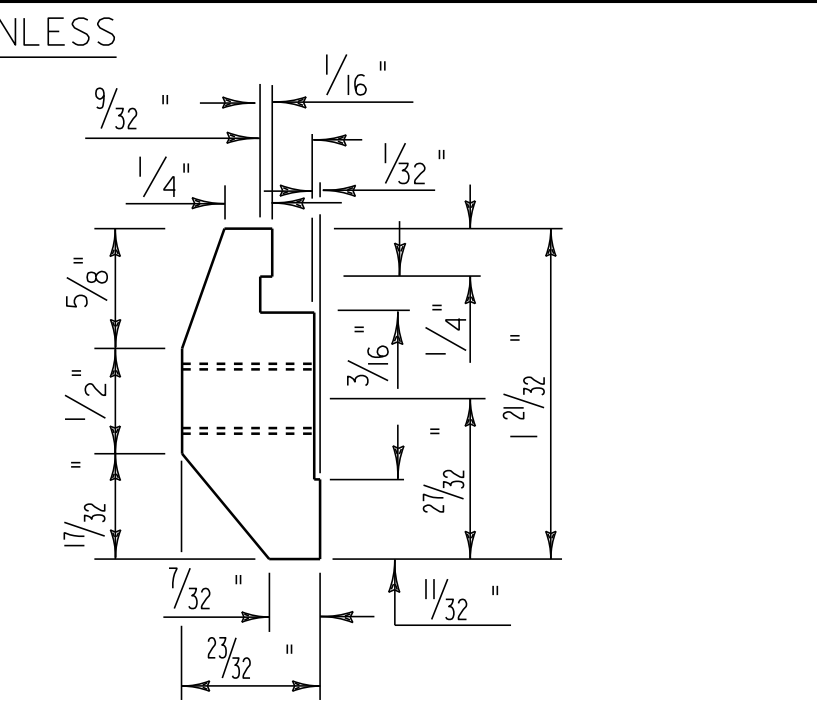




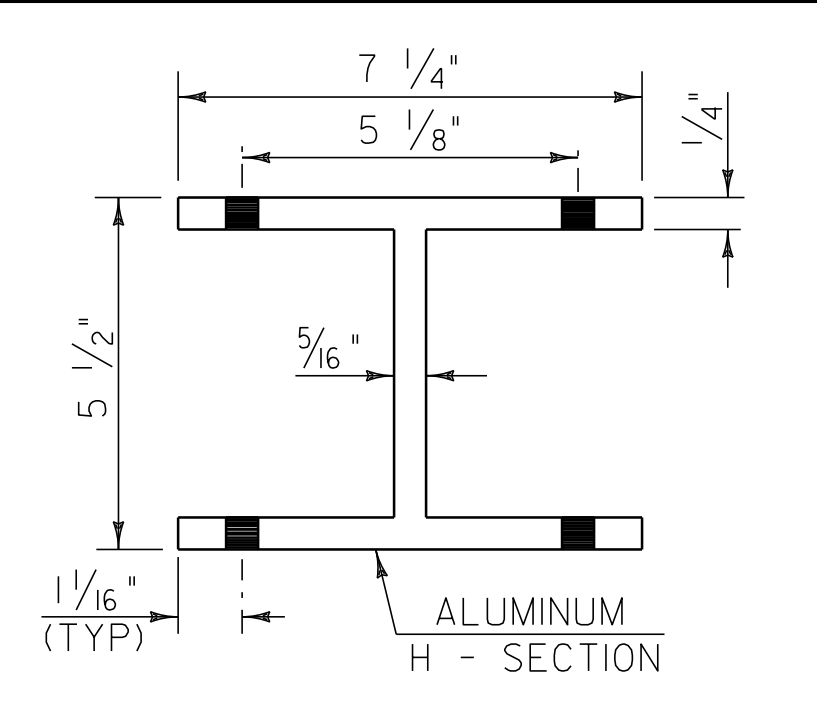
**POST CONNECTION  
HAND RAIL SECTION**



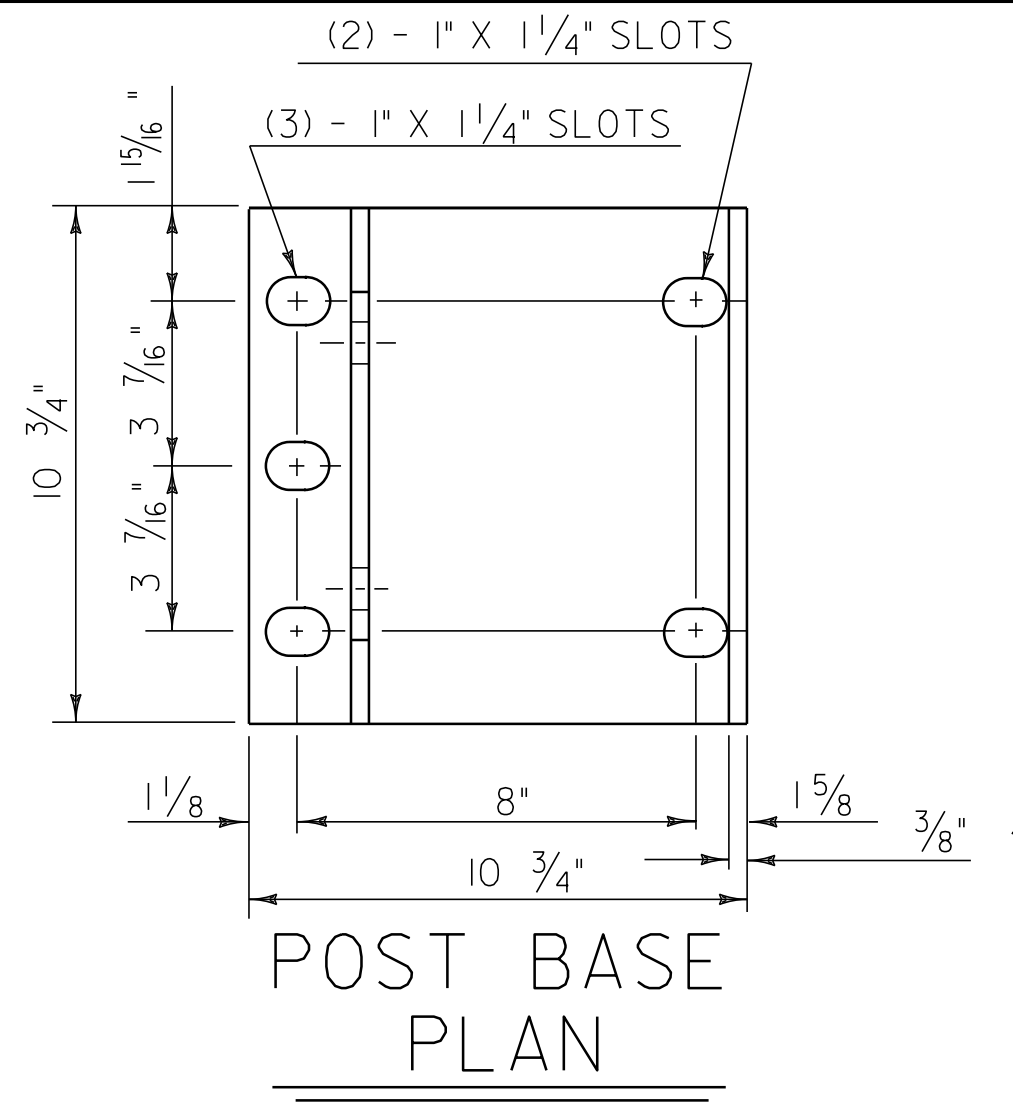
**POST CONNECTION  
ELEVATION**



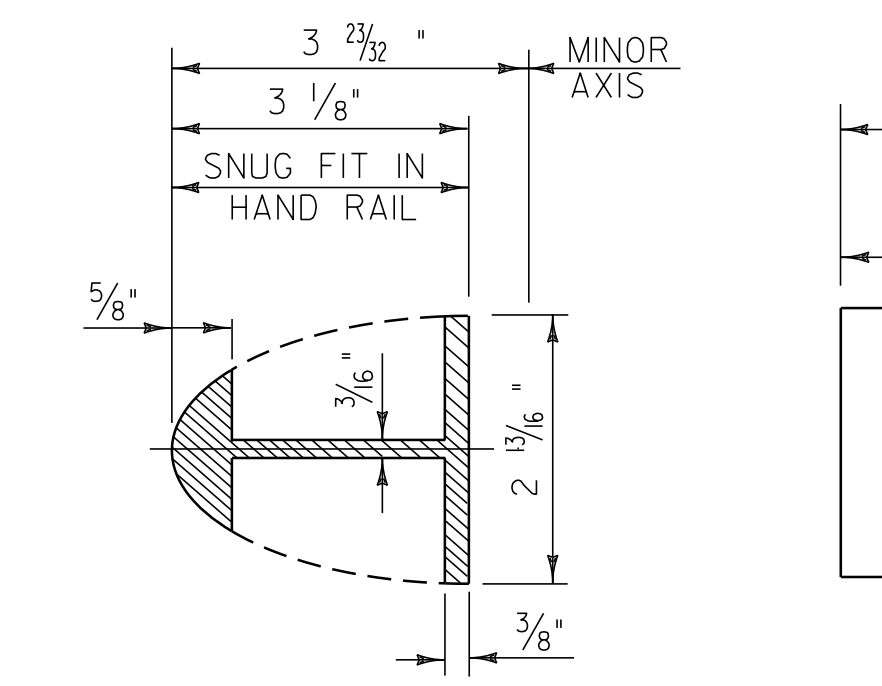
**POST CONNECTION  
BARRIER RAIL SECTION**



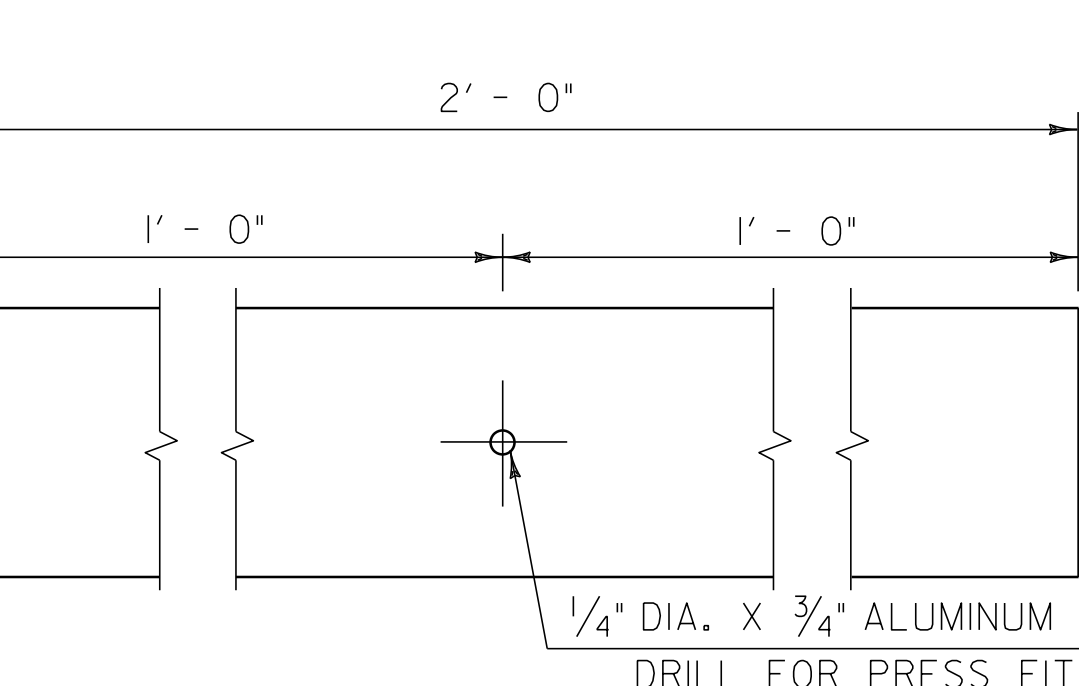
**PLAN VIEW OF  
OFFSET BLOCK  
(TO BE USED ON  
SUPERSTRUCTURE  
ON CURB SIDE)**



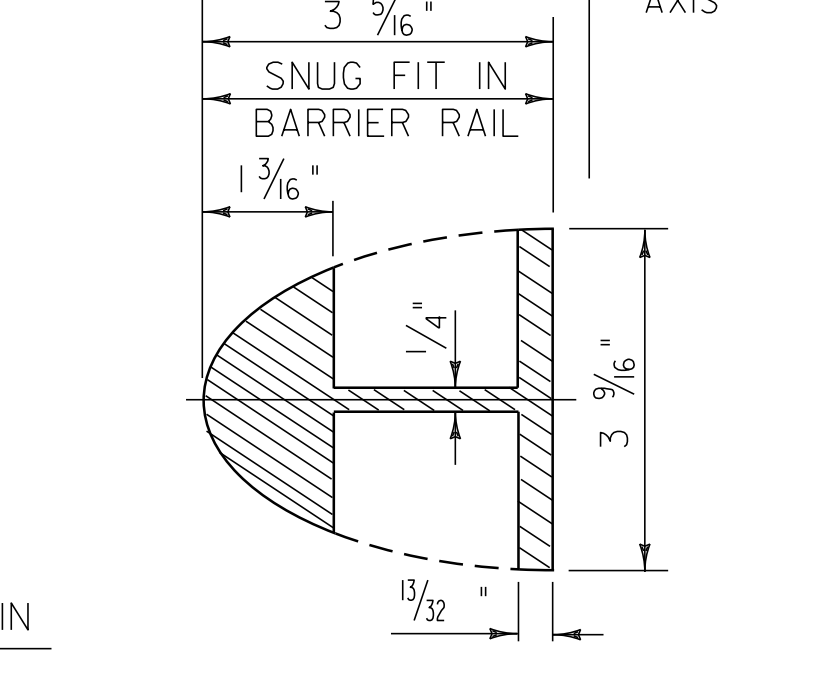
**POST BASE  
PLAN**



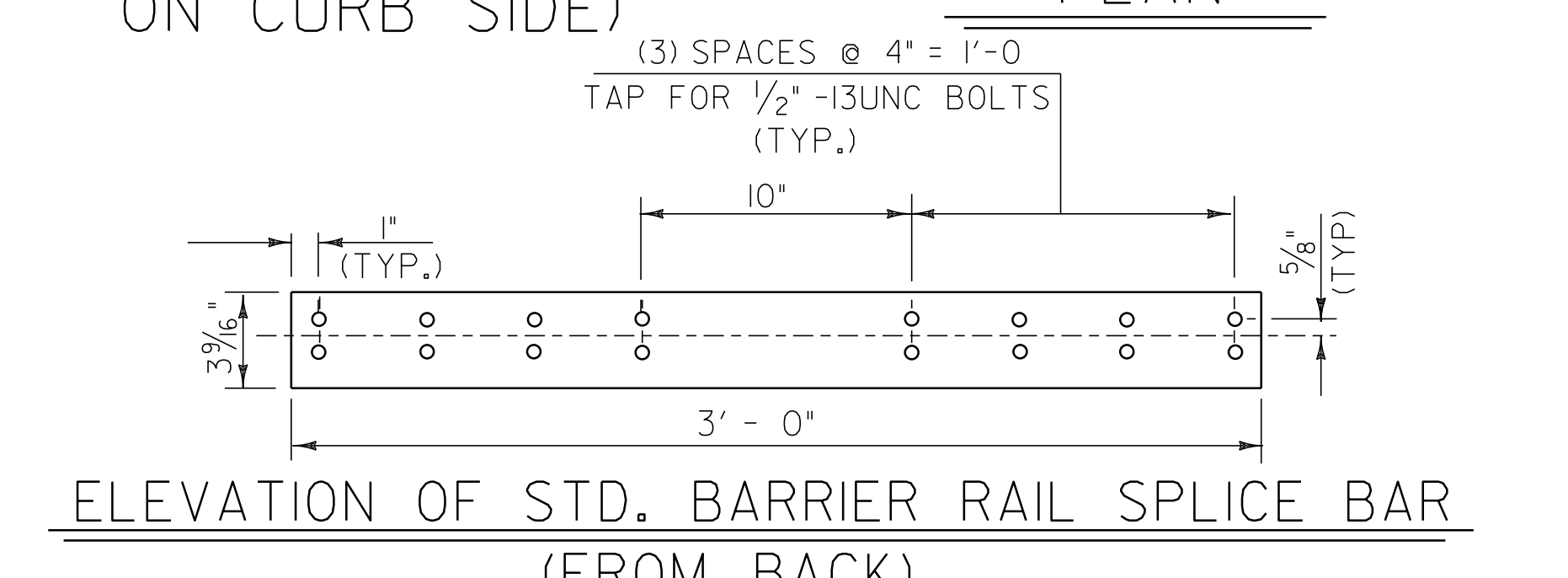
**HAND RAIL  
SPLICE SECTION**



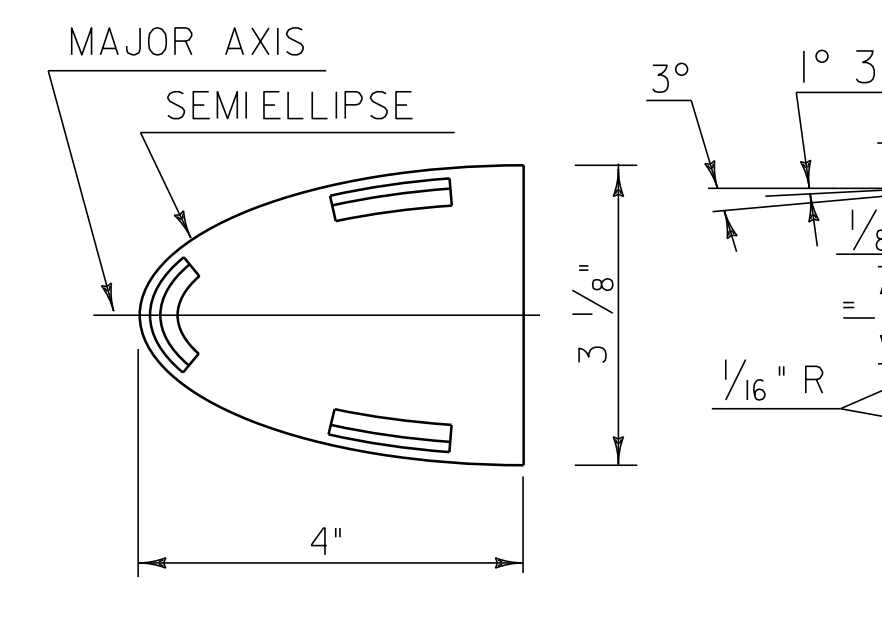
**ELEVATION OF  
HAND RAIL SPLICE BAR**



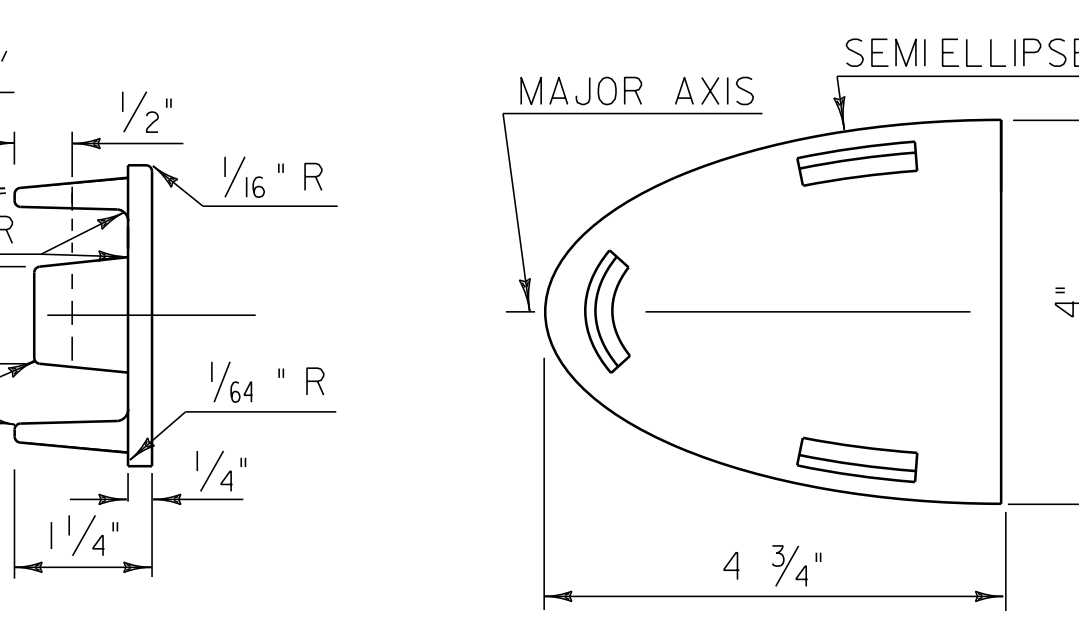
**BARRIER RAIL  
SPLICE SECTION**



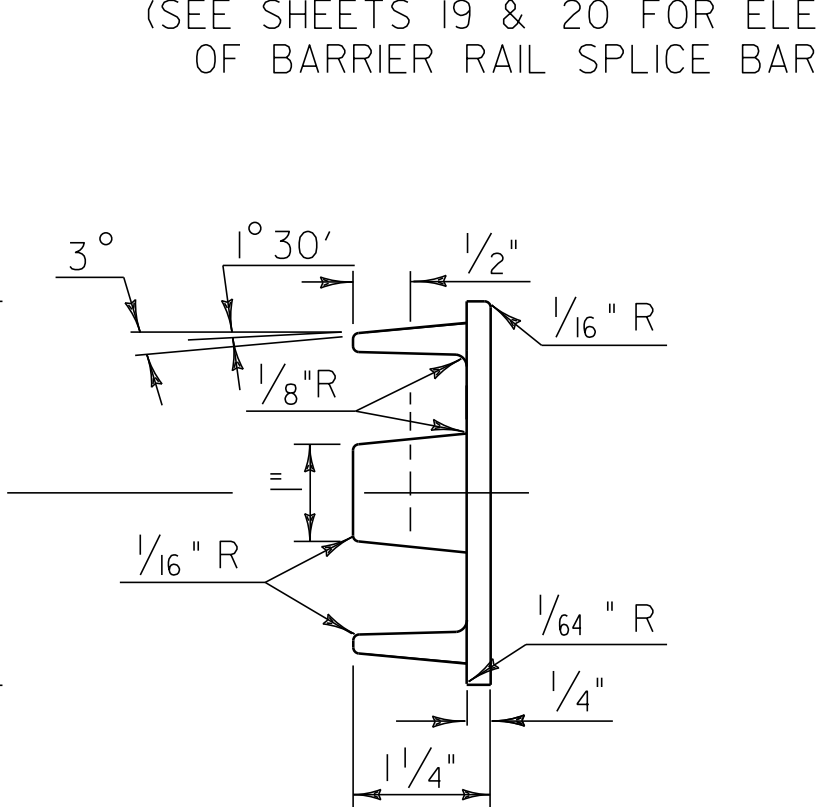
**ELEVATION OF STD. BARRIER RAIL SPLICE BAR  
(FROM BACK)**



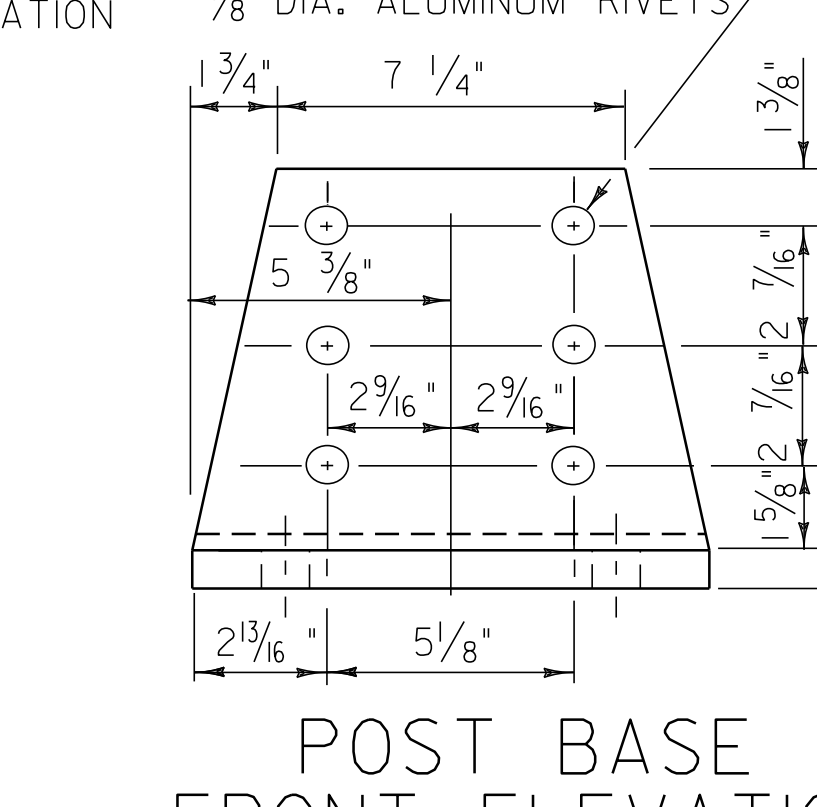
**HAND RAIL END CAP**



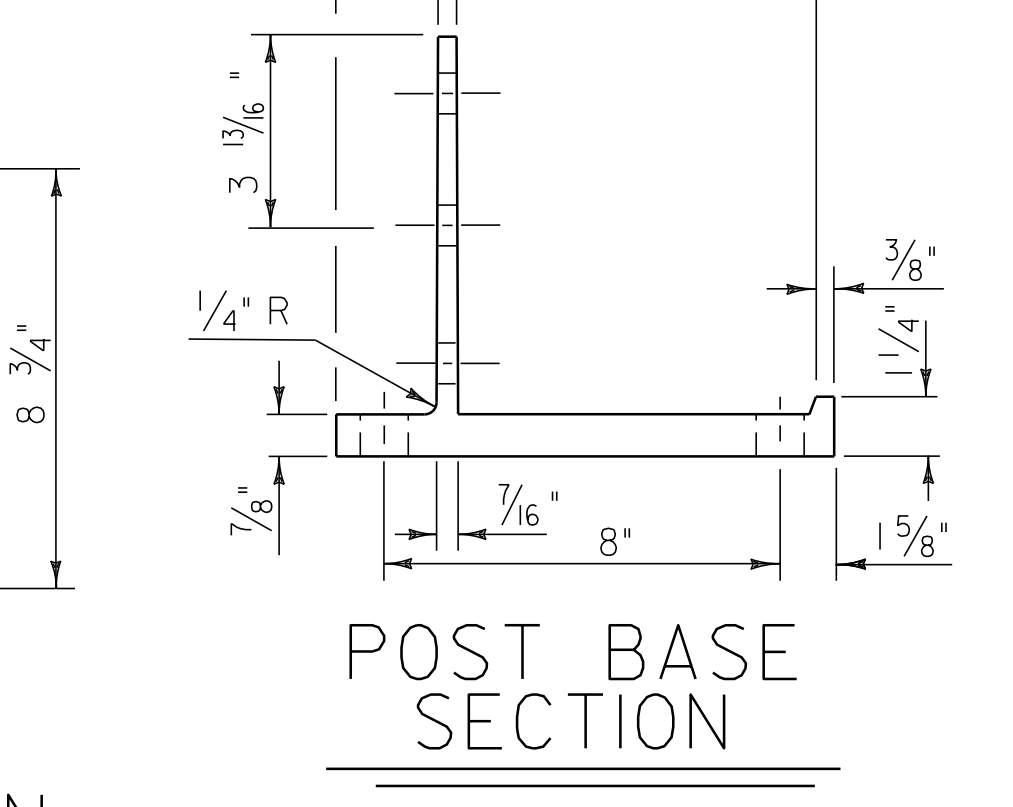
**BARRIER RAIL END CAP**



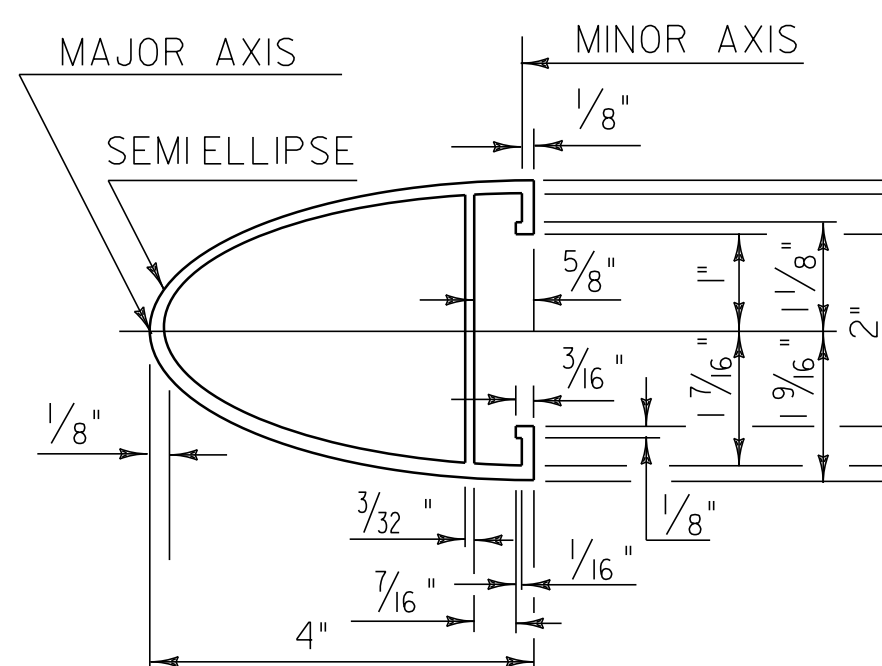
**BARRIER RAIL SPLICE SECTION  
(SEE SHEETS 19 & 20 FOR ELEVATION  
OF BARRIER RAIL SPLICE BAR)**



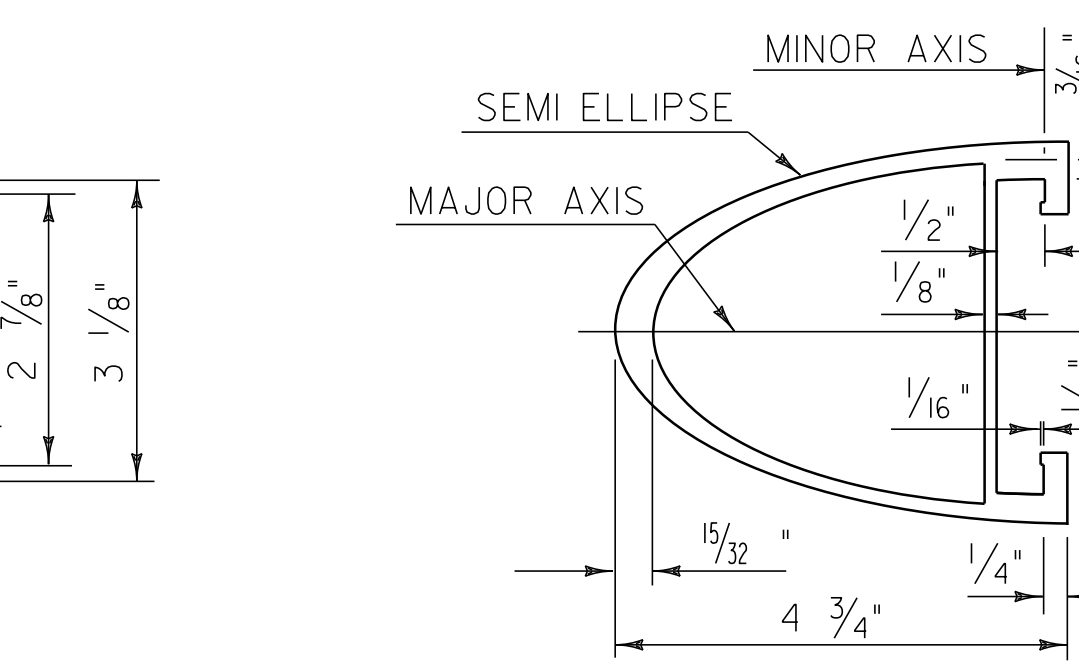
**POST BASE  
FRONT ELEVATION**



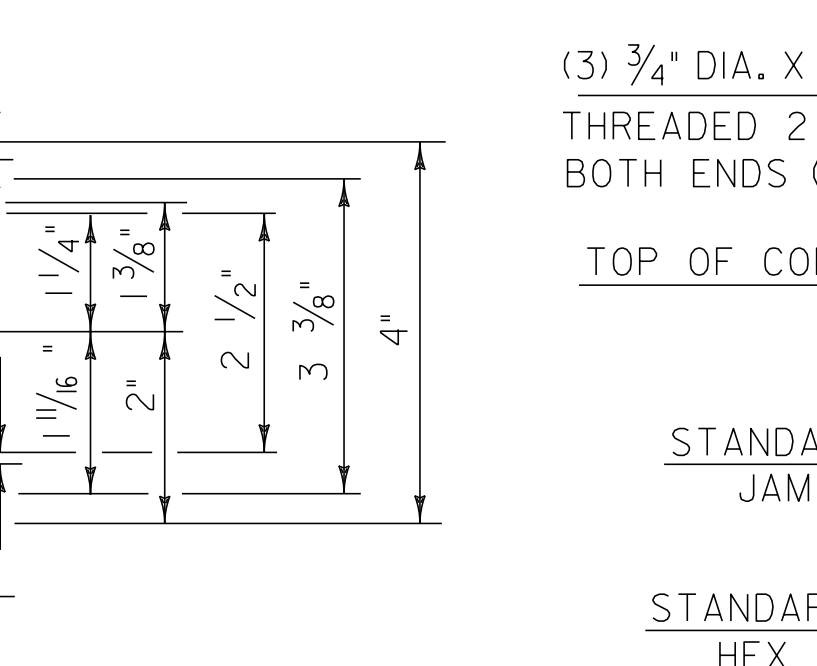
**POST BASE  
SECTION**



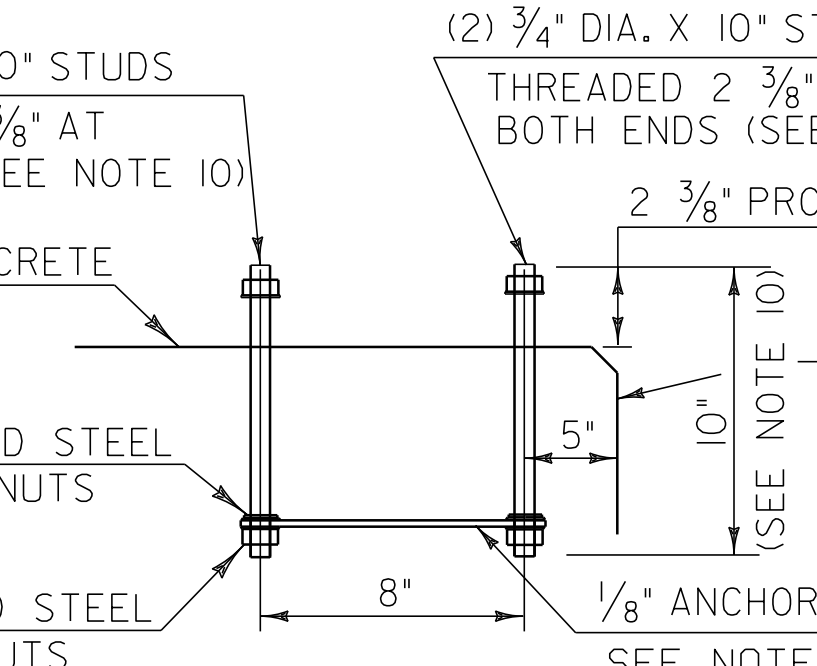
**HAND RAIL SECTION**



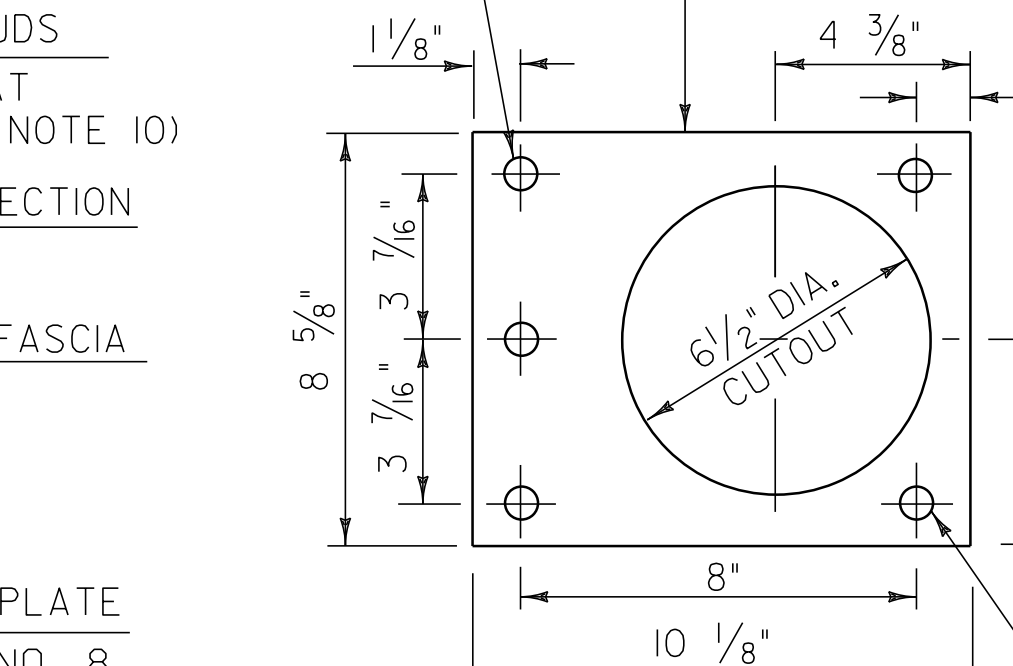
**BARRIER RAIL SECTION**



**BARRIER RAIL SECTION  
(SEE SHEET 20 FOR ELEVATION  
OF BARRIER RAIL)**



**POST ANCHOR ASSEMBLY**



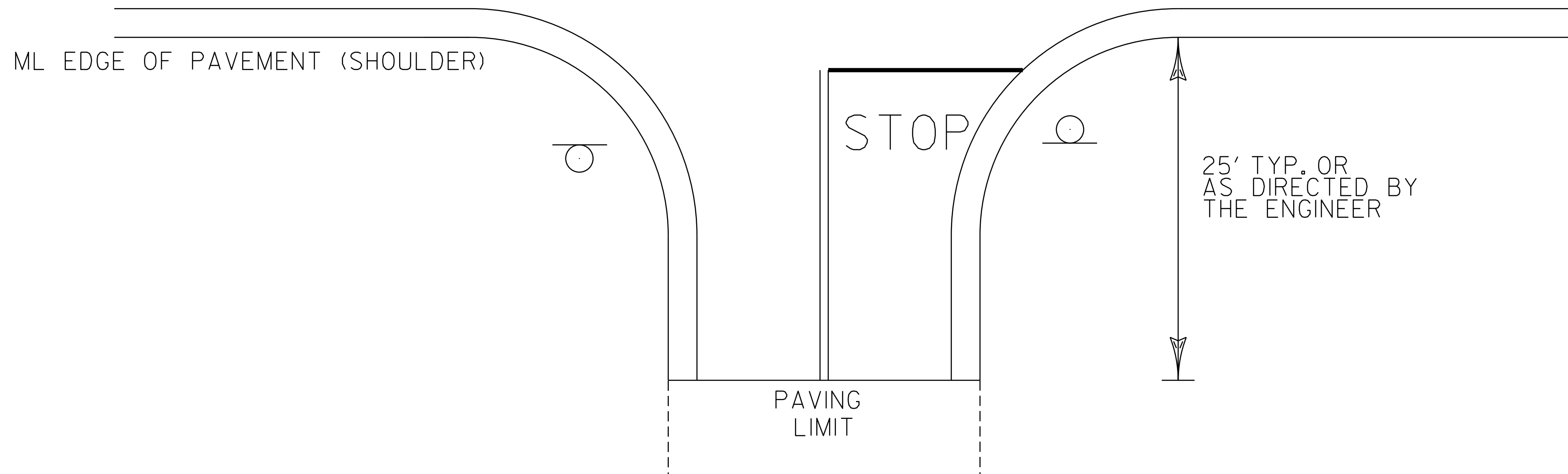
**ANCHOR PLATE**

- NOTES**
- ANCHOR BOLTS, WASHERS AND HEAVY HEX NUTS MAY BE ANY OF THE FOLLOWING:
    - ASTM A449 GALVANIZED, OR
    - AASHTO M164 (ASTM A325) GALVANIZED
    - BOLTS AND WASHERS OF STAINLESS STEEL ASTM A276, TYPE 304 (MINIMUM ULTIMATE STRENGTH OF 100,000 PSI) WITH STAINLESS STEEL NUTS OF ASTM A194, GRADE 8NA.
  - ALUMINUM POSTS, POST BASES, SPLICE BARS, CONNECTION BARS, RAILS AND BALUSTER FRAMES SHALL CONFORM TO ASTM B221 ALLOY 6061-T6 OR ALLOY 6351-T5. MINIMUM ALLOWABLE STRESS  $F_y = 35,000$  PSI.
  - ALUMINUM BALUSTER TUBES SHALL CONFORM TO ASTM B210 ALLOY 6061-T5 OR 6063-T5.
  - ALUMINUM RAIL END CAPS SHALL CONFORM TO ASTM B26 ALLOY 356-T6.
  - THE POST, RAIL, AND OFFSET BLOCK CONNECTION BOLTS SHALL BE EITHER ASTM A193 OR ASTM A320. EITHER ONE SHALL BE CLASS 1, B8 GRADE AISI 304 WITH AN ULTIMATE TENSILE STRENGTH OF 75,000 PSI. NUTS FOR EITHER OF THE ABOVE BOLTS SHALL BE ASTM A194, GRADE 8, STAINLESS STEEL WITH AN ULTIMATE TENSILE STRENGTH OF 75,000 PSI.
  - SET SCREWS FOR ATTACHING BALUSTERS TO RAILING SHALL BE ASTM F880, TYPE 303 MATERIAL.
  - RIVETS SHALL BE COLD DRIVEN HIGH BUTTON HEAD "CONE POINT", CONFORMING TO ASTM B316 ALLOY 6061-T6.
  - THE ANCHOR PLATE FOR THE POST ANCHOR ASSEMBLY SHALL BE ASTM A36 STRUCTURAL STEEL.
  - WELDING SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 506.10 USING THE GMAW-INERT GAS PROCESS AND AWS ER 5356 ELECTRODE WIRE.
  - UNLESS OTHERWISE SPECIFIED, ANCHOR BOLTS SHALL BE CAST INTO THE CONCRETE AS DETAILED.
  - WHENEVER FEASIBLE BARRIER RAIL AND HAND RAIL SECTIONS, SHALL BE FULL LENGTH SECTIONS (40' ±) AND WHEN POSSIBLE SHALL BE ATTACHED TO THREE POSTS. RAILS SHALL BE SPLICED AT EACH DECK JOINT AND INTERMITTENTLY AS REQUIRED. SPLICES SHALL OCCUR WITHIN THE SAME PANEL.
  - ENDS OF RAILS SHALL BE CUT SQUARE AND GROUND FREE OF BURRS OR RAGGED EDGES. EXPOSED ENDS SHALL BE CAPPED.
  - THE CONCRETE CONTACT SURFACE AT THE POST BASE SHALL BE BUSH HAMMERED AND/OR SHIMMED AS REQUIRED FOR PROPER POST ALIGNMENT. POST HEIGHT ADJUSTMENTS LESS THAN 1/4" SHALL BE WITH 1/16" AND 1/8" SHIMS. CORRECTIONS EXCEEDING 1/4" SHALL BE WITH EPOXY MORTAR CONFORMING WITH SECTION 524. FABRIC BEARING PADS AND ANY REQUIRED SHIMS OR EPOXY MORTAR ARE INCIDENTAL TO THE UNIT PRICE BID FOR THE RAILING.
  - SHIMS AND 1/8" FABRIC BEARING PADS SHALL BE 10 3/4" SQUARE WITH SLOTTED HOLES SIZED AND LOCATED THE SAME AS THE POST BASE DETAIL. FABRIC BEARING PADS SHALL CONFORM TO SUBSECTION 731.01 OR 731.02, SHIM MATERIAL SHALL BE ASTM B 209 ALLOY 1100-0.
  - EXTRUDED SECTIONS ARE DETAILED TO COMPLY WITH CURRENT AASHTO-AGC-ARTBA STANDARDS. MINOR VARIATIONS OF THE DETAILS SHOWN MAY BE CONSIDERED PROVIDING THEY DO NOT REDUCE THE STRENGTH CAPACITY OF THE RAIL SYSTEM.
  - ALUMINUM WASHERS SHALL BE ASTM B209 ALLOY ACLA 2024-T4.

<b>ALUMINUM APPROACH RAILING DETAILS 2 BRIDGE 20</b>		NOT TO SCALE
PROJECT NAME: FAIRFAX - ST. ALBANS TOWN		
PROJECT NUMBER: STP 2217(I)		
FILE NAME: p99cl86.dgn	PLOT DATE: 11-OCT-2011 11:49	
PROJECT LEADER: T. DOMEY	DRAWN BY: K. LOCKE	
DESIGNED BY: K. LOCKE	CHECKED BY: PAVT MGMT	
IPARM FILE NAME: p99cl86aard2.i	SHEET 21 OF 25	

**TOWNSTATE HIGHWAY INVENTORY FOR PAVING, MARKING & SIGNING**

TOWN/STATE HIGHWAY NAME	LOCATION MM	EXISTING WIDTH FT	EXISTING PAVED/ GRAVEL	MAINLINE CENTERLINE BREAK	MAINLINE EDGE LINE BREAK	TH CENTERLINE	TH EDGE LINE	TH STOP BAR	TH STOP LETTERS	STOP SIGN	LEGAL LOAD LIMIT SIGN	OTHER
FAIRFAX												
VT 104A	6.906 LT	-	PAVED	YES	YES	YES	YES	YES	YES	REPLACE	N/A	NEED NEW MM PLAQUE
TH 22 ROCKY RIDGE RD	7.395 LT	18	GRAVEL	YES	YES	NO	NO	NO	NO	RETAIN	RETAIN	NEED NEW MM PLAQUE
TH 23 FLANDERS RD	7.732 RT	23	GRAVEL	YES	YES	YES	YES	YES	YES	REPLACE	REPLACE	NEED NEW MM PLAQUE
TH 14 WAGNER RD	9.841 LT	19	GRAVEL	YES	YES	NO	NO	NO	NO	REPLACE	REPLACE	NEED NEW MM PLAQUE
TH 15 AUSTIN RD	9.937 RT	30	PAVED	YES	YES	YES	YES	YES	YES	RETAIN	RETAIN	
TH 12 KING RD	10.512 LT	24	PAVED	YES	YES	YES	YES	YES	YES	RETAIN	RETAIN	2 STOP SIGNS
TH 5 BRICK CHURCH RD	11.890 RT	30	PAVED	YES	YES	YES	YES	YES	YES	REPLACE	MISSING	NEED NEW MM PLAQUE
TH 46 BESSETTE RD	12.594 RT	28	PAVED	YES	YES	YES	YES	YES	YES	RETAIN	REPLACE	NEED NEW MM PLAQUE
TH 10 NICHOLS RD	13.012 LT	31	PAVED	YES	YES	YES	YES	YES	YES	REPLACE	RETAIN	NEED NEW MM PLAQUE
TH3 OAKLAND STATION RD	13.579 LT	28	PAVED	YES	YES	YES	YES	YES	YES	REPLACE	REPLACE	NEED NEW MM PLAQUE
ST. ALBANS TOWN												
TH 7 FAIRFAX STREET	1.204 LT	28	PAVED	YES	YES	YES	YES	YES	YES	REPLACE	MISSING	NEED NEW MM PLAQUE
S.A.S.H.	1.579 LT&RT	-	PAVED	-	-	-	-	-	-	-	-	SIGNALIZED INTERSECTION
TH 39 UPPER WELDEN ST	2.019 LT	22	PAVED	YES	YES	YES	YES	YES	YES	REPLACE	REPLACE	NEED NEW MM PLAQUE
VT 36	2.228 LT&RT	-	PAVED	-	-	-	-	-	-	-	-	SIGNALIZED INTERSECTION
TH 25 CONGRESS STREET	2.773 LT	29	PAVED	YES	YES	YES	YES	YES	YES	REPLACE	MISSING	NEED NEW MM PLAQUE
TH 14 FRENCH HILL RD	2.981 RT	35	PAVED	YES	YES	YES	YES	YES	YES	REPLACE	REPLACE	NEED NEW MM PLAQUE



**TOWN HIGHWAY TYPICAL**

NOTES:

- 1.) SEE STD E-121 FOR THE PLACEMENT OF STOP AND LEGAL LOAD LIMIT SIGNS.
- 2.) SEE STD E-193 FOR THE PLACEMENT OF CENTERLINE, EDGELINE, STOP BARS, AND STOP LETTERS.

**NOT TO SCALE**

**675.50 REMOVING SIGNS**

- FAIRFAX: MM 6.906 LT (1EA) STOP SIGN  
 MM 7.395 LT (1EA) MILE MARKER PLAQUE  
 MM 7.732 RT (2 EA) STOP & LEGAL LOAD LIMIT SIGNS  
 MM 9.841 LT (3 EA) STOP, LEGAL LOAD LIMIT, & MILE MARKER SIGNS  
 MM 10.512 LT (1EA) MILE MARKER PLAQUE  
 MM 11.890 RT (2 EA) STOP & MILE MARKER PLAQUE  
 MM 12.594 RT (1EA) LEGAL LOAD LIMIT SIGN  
 MM 13.012 LT (1EA) STOP SIGN  
 MM 13.579 LT (3 EA) STOP, LEGAL LOAD LIMIT & MILE MARKER SIGNS
- ST. ALBANS TOWN: MM 1.204 LT (2 EA) STOP & MILE MARKER SIGNS  
 MM 1.762 LT (1EA) SIGNAL AHEAD SIGN  
 MM 2.019 LT (2 EA) STOP & LEGAL LOAD LIMIT SIGNS  
 MM 2.773 LT (2 EA) STOP & MILE MARKER SIGNS  
 MM 2.981 RT (3 EA) STOP, LEGAL LOAD LIMIT, & MILE MARKER SIGNS  
 MM 3.850 RT (1EA) SIGNAL AHEAD SIGN

**646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC**

- FAIRFAX: MM 6.906 LT (4 EA) "STOP"  
 MM 7.732 RT (4 EA) "STOP"  
 MM 9.937 LT (4 EA) "STOP"  
 MM 10.512 LT (4 EA) "STOP"  
 MM 11.890 RT (4 EA) "STOP"  
 MM 12.594 RT (4 EA) "STOP"  
 MM 13.012 LT (4 EA) "STOP"  
 MM 13.579 LT (4 EA) "STOP"
- ST. ALBANS TOWN: MM 1.204 LT (4 EA) "STOP"  
 MM 2.019 LT (4 EA) "STOP"  
 MM 2.773 LT (4 EA) "STOP"  
 MM 2.981 RT (4 EA) "STOP"

**646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC**

- FAIRFAX: MM 6.906 LT (VT 104A, 20 LF)  
 MM 7.732 RT (TH 23, 12 LF)  
 MM 9.937 LT (TH 15, 15 LF)  
 MM 10.512 LT (TH 12, 12 LF)  
 MM 11.890 RT (TH 5, 15 LF)  
 MM 12.594 RT (TH 46, 14 LF)  
 MM 13.012 LT (TH 10, 15 LF)  
 MM 13.579 LT (TH 3, 14 LF)
- ST. ALBANS TOWN: MM 1.204 LT (TH 7, 14 LF)  
 MM 2.019 LT (TH 39, 12 LF)  
 MM 2.773 LT (TH 25, 15 LF)  
 MM 2.981 RT (TH 14, 18 LF)

**646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC**

- FAIRFAX: MM 6.906 LT (VT 104A, EDGE LINES)  
 MM 7.732 RT (TH 23, EDGE LINES)  
 MM 9.937 LT (TH 15, EDGE LINES)  
 MM 10.512 LT (TH 12, EDGE LINES)  
 MM 11.890 RT (TH 5, EDGE LINES)  
 MM 12.594 RT (TH 46, EDGE LINES)  
 MM 13.012 LT (TH 10, EDGE LINES)  
 MM 13.579 LT (TH 3, EDGE LINES)
- ST. ALBANS TOWN: MM 1.204 LT (TH 7, EDGE LINES)  
 MM 2.019 LT (TH 39, EDGE LINES)  
 MM 2.773 LT (TH 25, EDGE LINES)  
 MM 2.981 RT (TH 14, EDGE LINES)

**646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC**

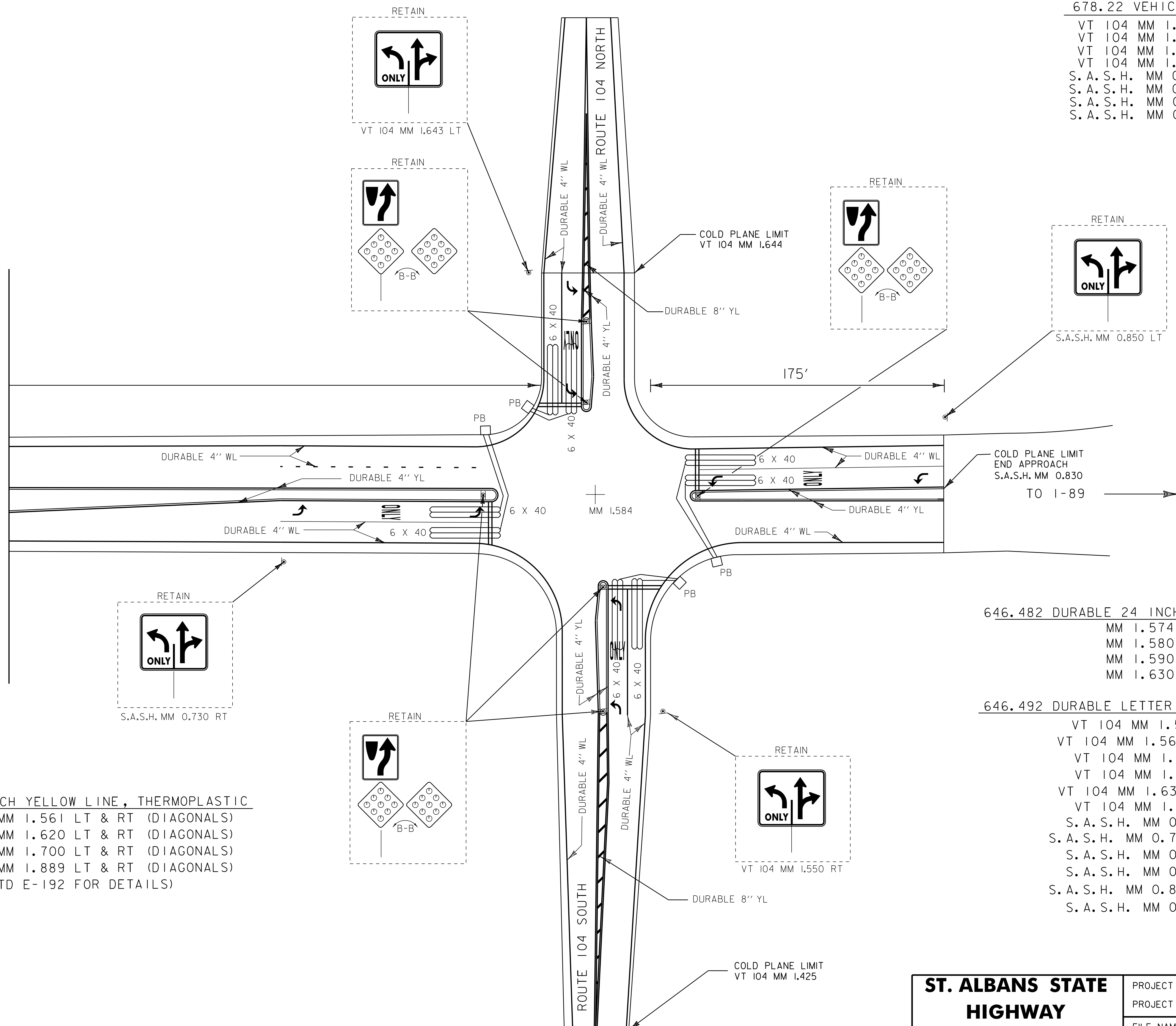
- FAIRFAX: MM 6.906 LT (VT 104A, CENTERLINE)  
 MM 7.732 RT (TH 23, CENTERLINE)  
 MM 9.937 LT (TH 15, CENTERLINE)  
 MM 10.512 LT (TH 12, CENTERLINE)  
 MM 11.890 RT (TH 5, CENTERLINE)  
 MM 12.594 RT (TH 46, CENTERLINE)  
 MM 13.012 LT (TH 10, CENTERLINE)  
 MM 13.579 LT (TH 3, CENTERLINE)
- ST. ALBANS TOWN: MM 1.204 LT (TH 7, CENTERLINE)  
 MM 2.019 LT (TH 39, CENTERLINE)  
 MM 2.773 LT (TH 25, CENTERLINE)  
 MM 2.981 RT (TH 14, CENTERLINE)

<b>TOWN HIGHWAY SIGNING &amp; MARKING SHEET</b>	PROJECT NAME: FAIRFAX - ST. ALBANS TOWN	
	PROJECT NUMBER: STP 2217(1)	
FILE NAME: p99c186.dgn	PLOT DATE: 11-OCT-2011 11:49	
PROJECT LEADER: T. DOMEY	DRAWN BY: K. LOCKE	
DESIGNED BY: K. LOCKE	CHECKED BY: PAVT MGMT	
IPARM FILE NAME: p99c186+th.i	SHEET 22 OF 25	

678.22 VEHICLE LOOP DETECTOR

VT 104	MM 1.570	RT	(6 X 40)
VT 104	MM 1.570	RT	(6 X 40)
VT 104	MM 1.631	LT	(6 X 40)
VT 104	MM 1.631	LT	(6 X 40)
S.A.S.H.	MM 0.742	RT	(6 x 40)
S.A.S.H.	MM 0.742	RT	(6 x 40)
S.A.S.H.	MM 0.838	LT	(6 x 40)
S.A.S.H.	MM 0.838	LT	(6 x 40)

MATCH LINE SEE SHEET 23 OF 24



**646.452 DURABLE 8 INCH YELLOW LINE, THERMOPLASTIC**  
 VT 104 MM 1.490 - MM 1.561 LT & RT (DIAGONALS)  
 VT 104 MM 1.600 - MM 1.620 LT & RT (DIAGONALS)  
 VT 104 MM 1.680 - MM 1.700 LT & RT (DIAGONALS)  
 VT 104 MM 1.775 - MM 1.889 LT & RT (DIAGONALS)  
 (REFER TO STD E-192 FOR DETAILS)

**646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC**  
 MM 1.574 RT (30 LF)  
 MM 1.580 LT (30 LF)  
 MM 1.590 RT (30 LF)  
 MM 1.630 LT (30 LF)

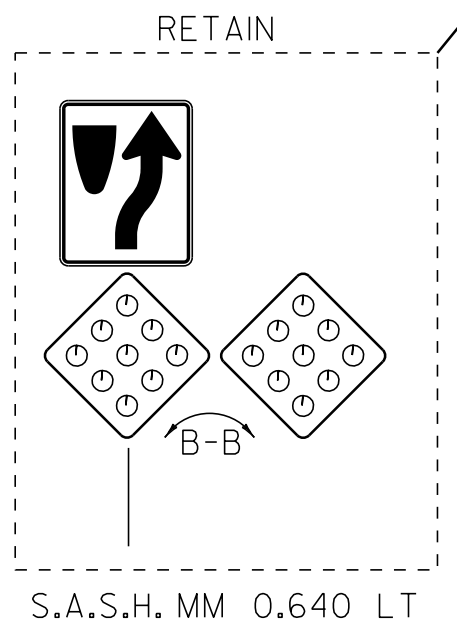
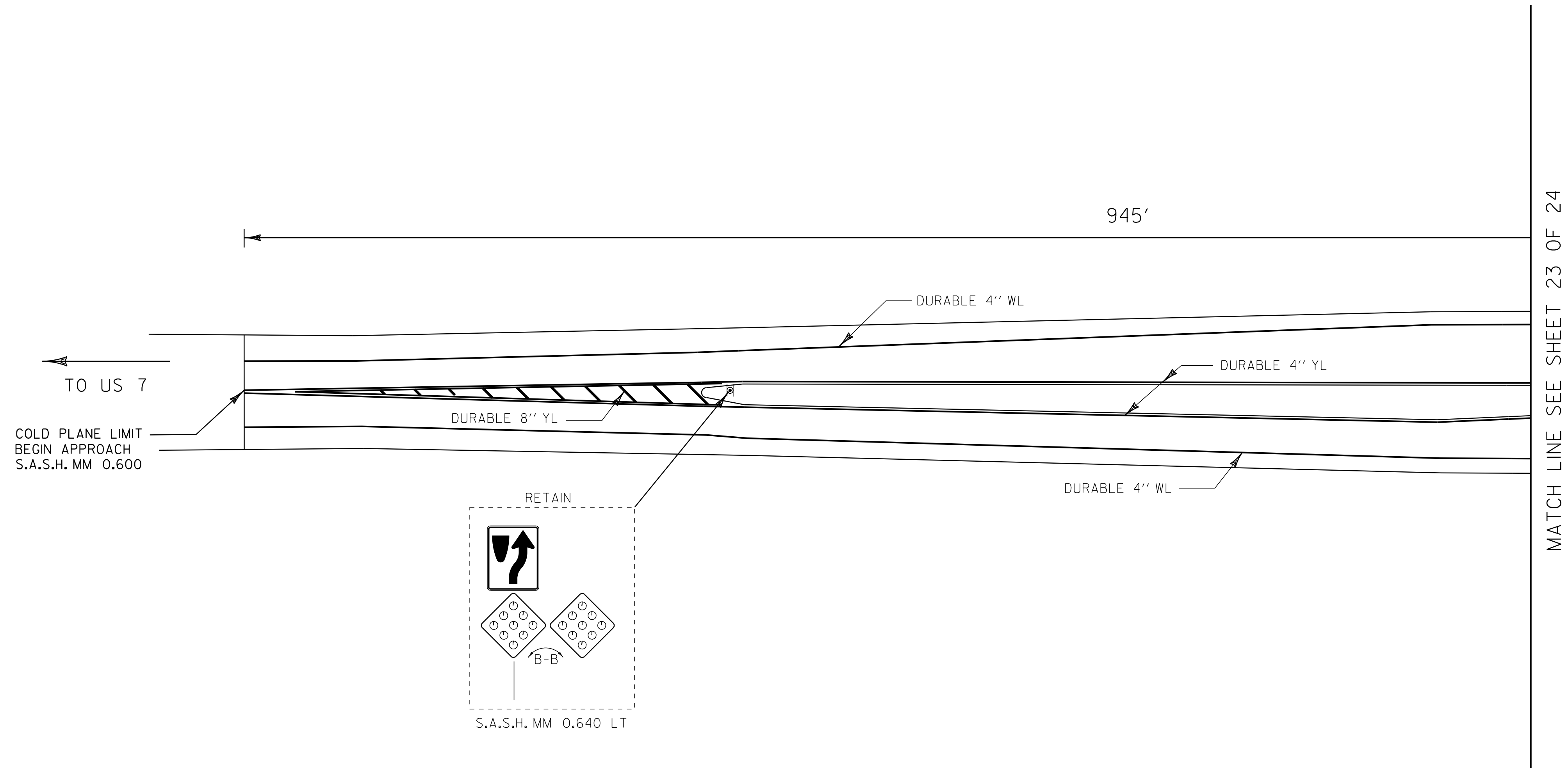
**646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC**  
 VT 104 MM 1.560 RT ↩ 1 EA  
 VT 104 MM 1.568 RT "ONLY" 4 EA  
 VT 104 MM 1.570 RT ↩ 1 EA  
 VT 104 MM 1.631 LT ↩ 1 EA  
 VT 104 MM 1.637 LT "ONLY" 4 EA  
 VT 104 MM 1.643 LT ↩ 1 EA  
 S.A.S.H. MM 0.730 RT ↩ 1 EA  
 S.A.S.H. MM 0.736 RT "ONLY" 4 EA  
 S.A.S.H. MM 0.742 RT ↩ 1 EA  
 S.A.S.H. MM 0.838 LT ↩ 1 EA  
 S.A.S.H. MM 0.844 LT "ONLY" 4 EA  
 S.A.S.H. MM 0.850 LT ↩ 1 EA

**NOT TO SCALE**

**ST. ALBANS STATE  
 HIGHWAY  
 INTERSECTION  
 DETAIL SHEET # 1**

PROJECT NAME: FAIRFAX - ST. ALBANS TOWN	PLOT DATE: 11-OCT-2011 11:49
PROJECT NUMBER: STP 2217(I)	DRAWN BY: K. LOCKE
FILE NAME: p99cl86.dgn	CHECKED BY: PAVT MGMT
PROJECT LEADER: T. DOMEY	SHEET 23 OF 25
DESIGNED BY: K. LOCKE	
p99cl86sashl.i	

646.452 DURABLE 8 INCH YELLOW LINE , THERMOPLASTIC  
 S.A.S.H. MM 0.600 - MM 0.640 LT & RT (DIAGONALS)  
 (REFER TO STD E-192 FOR DETAILS)



MATCH LINE SEE SHEET 23 OF 24

**NOT TO SCALE**

**ST. ALBANS STATE  
 HIGHWAY  
 INTERSECTION  
 DETAIL SHEET # 2**

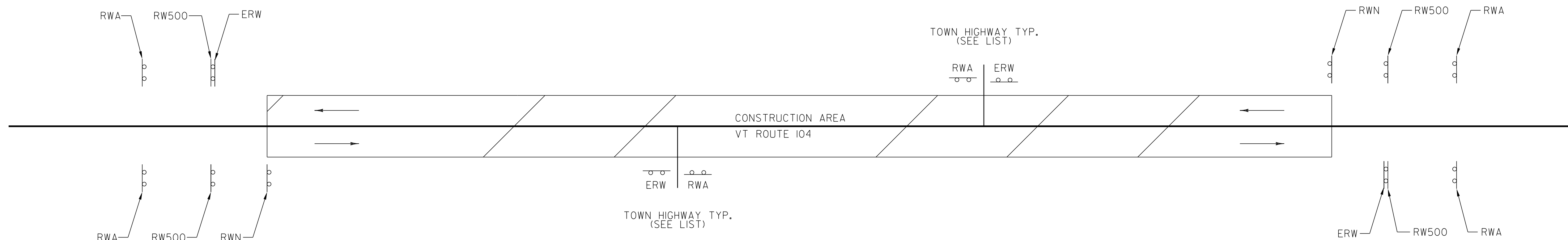
PROJECT NAME: FAIRFAX - ST. ALBANS TOWN	
PROJECT NUMBER: STP 2217(I)	
FILE NAME: p99cl86.dgn	PLOT DATE: 11-OCT-2011 11:49
PROJECT LEADER: T. DOMEY	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: PAVT MGMT
p99cl86sash2.i	SHEET 24 OF 25

**LIST OF TOWN/STATE HIGHWAYS  
FOR CONSTRUCTION SIGNS**

TOWN/STATE HIGHWAY NAME	ROAD WORK AHEAD	END ROAD WORK	ROAD WORK 500'	SIDE ROAD WORK AHEAD	SIDE ROAD WORK 500'	ROAD WORK NEXT 12 MILES
FAIRFAX						
VT 104 BEGIN PROJECT	2	1	2			1
VT 104A	1	1				
TH 22 ROCKY RIDGE RD	1	1				
TH 23 FLANDERS RD	1	1				
TH 14 WAGNER RD	1	1				
TH 15 AUSTIN RD	1	1				
TH 12 KING RD	1	1				
TH 5 BRICK CHURCH RD	1	1				
TH 46 BESSETTE RD	1	1				
TH 10 NICHOLS RD	1	1				
TH3 OAKLAND STATION RD	1	1				
ST. ALBANS TOWN						
TH 7 FAIRFAX STREET	1	1				
S.A.S.H.	2	2				
TH 39 UPPER WELDEN ST	1	1				
VT 36	2	2				
TH 25 CONGRESS STREET	1	1				
TH 14 FRENCH HILL RD	1	1				
VT 104 END PROJECT	2	1	2			1
TOTAL	22	20	4			2

**NOTES**

1. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) SHALL BE CONSIDERED INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL.
2. THE CONTRACTOR SHALL POSITION PORTABLE CHANGEABLE MESSAGE BOARDS WARNING MOTORISTS OF THE EXPECTED ROADWAY CONDITIONS AHEAD. THE MESSAGE TO BE DISPLAYED AND THE PROPOSED LOCATIONS SHALL BE SUBMITTED TO THE RESIDENT ENGINEER IN ADVANCE FOR APPROVAL. THE COST OF PROVIDING THESE MESSAGE BOARDS SHALL BE PAID UNDER 641.15, PORTABLE CHANGABLE MESSAGE SIGN.
3. THE BID PRICE FOR TRAFFIC CONTROL, ITEM 641.10, SHALL INCLUDE ALL OF THE FOLLOWING, AS NEEDED: APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, PORTABLE FLASHING 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.
4. THE MUTCD 2003 SHALL BE THE STANDARD FOR ALL TRAFFIC CONTROL DEVICES. EXISTING SIGNS AND MARKINGS SHALL BE VALID UNTIL SUCH TIME AS THEY ARE REPLACED OR RECONSTRUCTED. WHEN NEW TRAFFIC DEVICES ARE ERECTED OR PLACED, OR EXISTING TRAFFIC CONTROL DEVICES ARE REPLACED OR REPAIRED, THE EQUIPMENT, DESIGN, METHOD OF INSTALLATION, PLACEMENT OR REPAIR SHALL CONFORM WITH SUCH STANDARDS.
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. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH STANDARD E-103. PAYMENT FOR PROVIDING THIS PACKAGE SHALL BE INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL.
7. ON VTRANS STANDARD E-103, SIGN W4-2 MAY BE REPLACED WITH W9-2
8. WHERE TEMPORARY SIGNS ARE PLACED BEHIND GUARDRAIL, THEY SHALL BE ADJUSTED SUCH THAT THE BOTTOM OF THE SIGNS ARE ABOVE THE TOP OF GUARDRAIL.
9. AS THE PAVING OPERATION MOVES, FLAGGER SIGNS SHALL BE MOVED ACCORDINGLY. AT NO TIME SHOULD THE FLAGGER SYMBOL SIGN BE MORE THAN 1000 FEET FROM THE FLAGGER STATION. FLAGGER SIGNS SHALL BE COVERED OR TURNED AWAY FROM TRAFFIC WHEN FLAGGING OPERATIONS CEASE FOR LONGER THAN 15 MINUTES.
10. CONES SHALL BE USED TO CLEARLY DEFINE THE TRAVEL SPACE AND PROVIDE SEPARATION FROM THE WORK SPACE ALONG ITS ENTIRE LENGTH.



**CONSTRUCTION APPROACH SIGNING**

SEE STD E-100, E-100A AND E-103 FOR SIGN PLACEMENT

- LEGEND
- RWA = ROAD WORK AHEAD
  - RW500 = ROAD WORK 500 FT
  - RWN = ROAD WORK NEXT 12 MILES
  - ERW = END ROAD WORK
  - SRWA = SIDE ROAD WORK AHEAD
  - SRW500 = SIDE ROAD WORK 500 FT
  - = TRAFFIC FLOW ARROWS

**NOT TO SCALE**

<b>TEMPORARY TRAFFIC CONTROL PLAN</b>	PROJECT NAME: FAIRFAX - ST. ALBANS TOWN	PLOT DATE: 11-OCT-2011 11:49
	PROJECT NUMBER: STP 2217(1)	DRAWN BY: K. LOCKE
	DESIGNED BY: K. LOCKE	CHECKED BY: PAVT MGMT
	IPARM FILE NAME: p99cl86++tcp.i	SHEET 25 OF 25