RECORD PLANS

CONTRACTOR: THE GORMAN GROUP, LLC - ALBANY, NY

RESIDENT ENGINEER: CHRIS LAVALETTE

CONSTRUCTION BEGAN: APRIL 19, 2017

CONSTRUCTION COMPLETE: SEPTEMBER 29, 2017

RECORD PLANS BY: CHRIS LAVALETTE & JESSE IVES

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

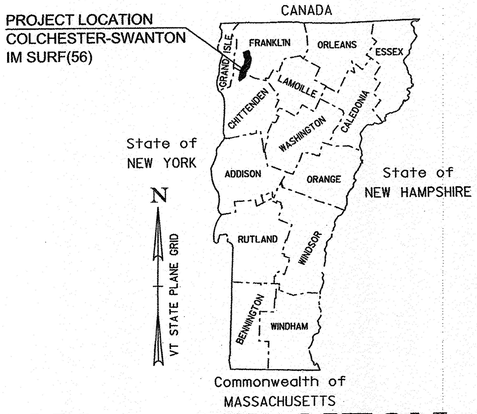
BY _____ RESIDENT ENGINEER

DATE 9/10/18

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

STATE OF VERMONT

AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT

TOWNS OF COLCHESTER, MILTON, GEORGIA, FAIRFAX, FAIRFIELD, ST. ALBANS & SWANTON

COUNTIES OF CHITTENDEN & FRANKLIN

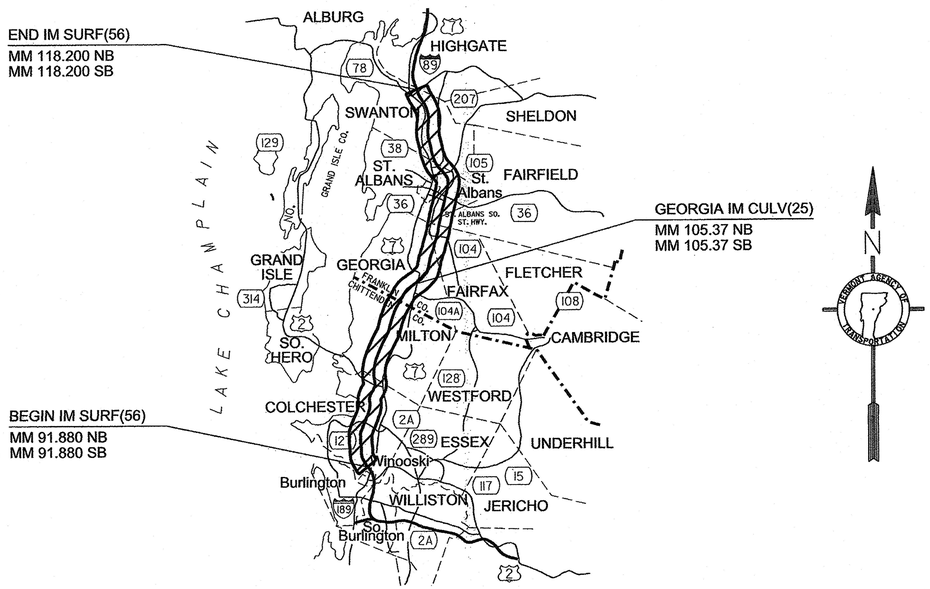
INTERSTATE ROUTE 89 (PRINCIPAL ARTERIAL - NHS)

BEGINNING IN THE TOWN OF COLCHESTER AT MM 91.880 AND EXTENDING NORTHERLY ALONG INTERSTATE ROUTE 89 (NORTHBOUND LANE) FOR A DISTANCE OF APPROXIMATELY 138,969.60 FEET (26.320 MILES) TO MM 118.200 IN THE TOWN OF SWANTON.

BEGINNING IN THE TOWN OF COLCHESTER AT MM 91.880 AND EXTENDING NORTHERLY ALONG INTERSTATE ROUTE 89 (SOUTHBOUND LANE) FOR A DISTANCE OF APPROXIMATELY 138,969.60 FEET (26.320 MILES) TO MM 118.200 IN THE TOWN SWANTON.

LENGTH OF ROADWAY = 277,939.20 FEET (52.640 MILES)
LENGTH OF PROJECT = 138,969.60 FEET (26.320 MILES)

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES MICRO-MILLING, SURFACE PREPARATION INVOLVING PATCHING, POT HOLE REPAIR, CRACK SEALING, OVERLAYING WITH A THIN BITUMINOUS SURFACE TREATMENT, TRAFFIC SIGNAL UPGRADES, TRAFFIC MARKINGS AND OTHER HIGHWAY RELATED ITEMS.



NOT TO SCALE

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 1	
SURVEYED BY :	NA
SURVEYED DATE :	NA
DATUM	
VERTICAL	NA
HORIZONTAL	NA

DIRECTOR OF PROJECT DELIVERY:
APPROVED: _____ DATE: 12/01/2016

PROJECT MANAGER : MICHAEL J. FOWLER, P.E.

PROJECT NAME : COLCHESTER-SWANTON
PROJECT NUMBER : IM SURF(56)

SHEET 1 OF 53

INDEX OF SHEETS

INDEX OF SHEETS

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STRUCTURES DETAIL SHEETS

SD-516.10 - BRIDGE JOINT ASPHALTIC PLUG 08-29-11

TRAFFIC DATA

	AADT		DHV		%T		%D		ADTT		ESALs	
	2017	2037	2017	2037	2017	2037	2017	2037	2017	2037	(2017~2037)	(2017~2057)
NORTHBOUND (MM 91.880 - MM 97.870)	15,600	17,500	2400	2700	6.4	11.1	100	100	1400	2700	10,587,000	26,252,000
SOUTHBOUND (MM 91.880 - MM 97.870)	15,600	17,500	2900	3200	4.8	8.3	100	100	1300	2600	10,245,000	25,386,000
NORTHBOUND (MM 97.870 - MM 106.550)	11,300	12,700	1800	2000	7.2	12.8	100	100	1500	2900	11,225,000	27,892,000
SOUTHBOUND (MM 97.870 - MM 106.550)	11,300	12,700	2100	2300	7.4	12.9	100	100	1400	2700	9,034,000	22,355,000
NORTHBOUND (MM 106.550 - MM 113.750)	10,800	12,000	1600	1700	7.4	11.2	100	100	1400	2300	7,805,000	18,122,000
SOUTHBOUND (MM 106.550 - MM 113.750)	10,800	12,000	1600	1800	7.4	11.6	100	100	1400	2400	7,912,000	18,429,000
NORTHBOUND (MM 113.750 - MM 117.630)	6,500	7,200	870	960	9.3	15.9	100	100	930	1800	9,712,000	24,184,000
SOUTHBOUND (MM 113.750 - MM 117.630)	6,500	7,200	730	810	9.9	16.8	100	100	910	1700	7,628,000	18,811,000
NORTHBOUND (MM 117.630 - MM 118.200)	5,100	5,700	680	760	10.3	15.3	100	100	800	1300	6,153,000	14,434,000
SOUTHBOUND (MM 117.630 - MM 118.200)	5,100	5,700	570	640	13.0	20.2	100	100	770	1300	4,559,000	10,670,000

PROJECT NAME: COLCHESTER-SWANTON
PROJECT NUMBER: IM SURF(56)

FILE NAME: pl6v07lwrk.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: B. KIPP
INDEX OF SHEETS

PLOT DATE: 29-DEC-2016
DRAWN BY: B. KIPP
CHECKED BY: M. FOWLER
SHEET 2 OF 54

GENERAL INFORMATION

SYMBOLOGY LEGEND NOTE

THE SYMBOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOGY. THE SYMBOLOGY 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. SYMBOLOGY 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
	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 VALUE
❀	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 RADUIS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

UTILITY SYMBOLOGY

UNDERGROUND UTILITIES

- UT — 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 — TELEPHONE
- E — 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 SYMBOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOGY

- CLEAR ZONE
- PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

- TOP OF CUT SLOPE
- TOE OF FILL SLOPE
- STONE FILL
- BOTTOM OF DITCH 'L
- CULVERT PROPOSED
- STRUCTURE SUBSURFACE
- PROJECT DEMARCATION FENCE (PDF)
- BARRIER FENCE (BF)
- TREE PROTECTION ZONE (TPZ)
- STRIPING LINE REMOVAL
- SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLOGY

BOUNDARY LINES

- TOWN LINE — TOWN BOUNDARY LINE
- COUNTY LINE — COUNTY BOUNDARY LINE
- STATE 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 SR SR — SLOPE RIGHTS
- 6F — 6F PROPERTY BOUNDARY
- 4F — 4F PROPERTY BOUNDARY
- HAZ — HAZ HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLOGY

EPSC MEASURES

- 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 — 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 SYMBOLOGY

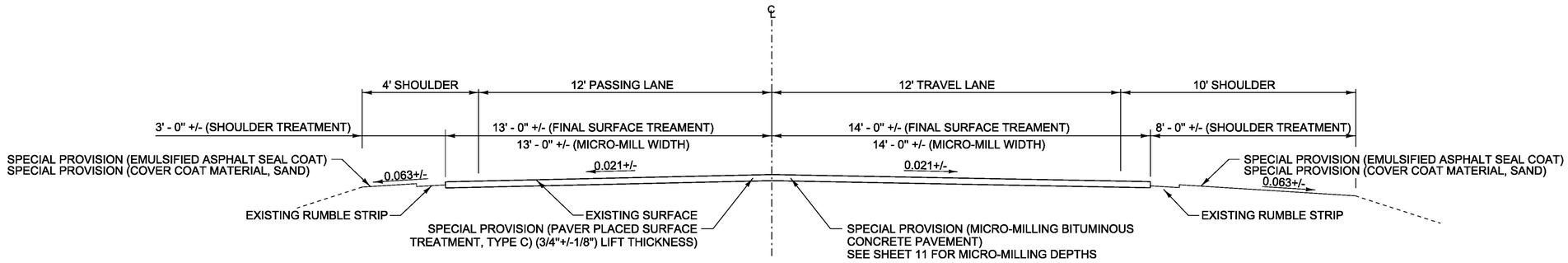
EXISTING FEATURES

- 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

PROJECT NAME: COLCHESTER-SWANTON
PROJECT NUMBER: IM SURF(56)

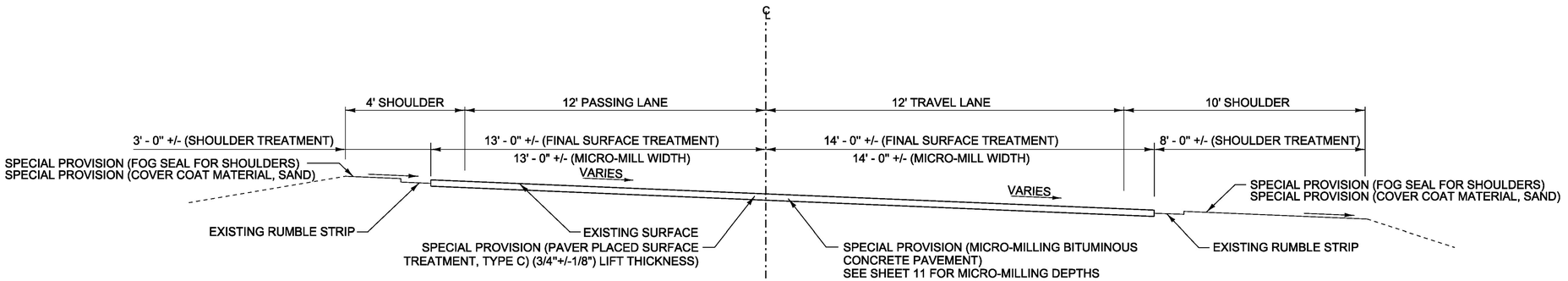
FILE NAME: pl6v07lwrk.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: B. KIPP
CONVENTIONAL SYMBOLOGY SHEET

PLOT DATE: 09-DEC-2016
DRAWN BY: B. KIPP
CHECKED BY: M. FOWLER
SHEET 3 OF 54



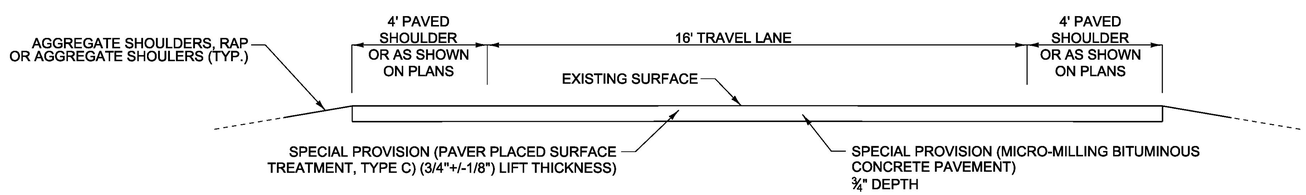
ROADWAY TYPICAL NORMAL SECTION

NOT TO SCALE
MM 91.880 - MM 98.000 (NORTHBOUND)
MM 91.880 - MM 98.000 (SOUTHBOUND)



ROADWAY TYPICAL BANKED SECTION

NOT TO SCALE
MM 91.880 - MM 98.000 (NORTHBOUND)
MM 91.880 - MM 98.000 (SOUTHBOUND)



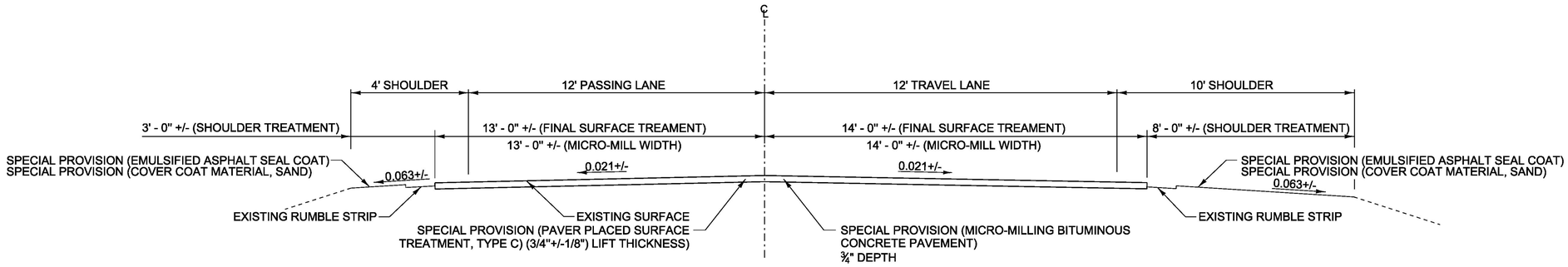
TYPICAL RAMP SECTION

NOT TO SCALE
MM 91.880 - MM 98.000 (NORTHBOUND)
MM 91.880 - MM 98.000 (SOUTHBOUND)

NOTE:

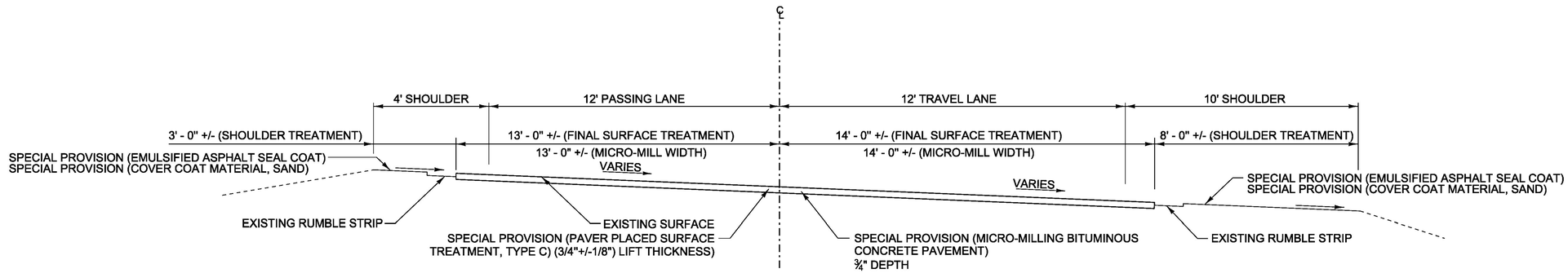
1. PERFORMANCE GRADED BINDER SHALL BE PG 70-28.

PROJECT NAME: COLCHESTER-SWANTON	
PROJECT NUMBER: IM SURF(56)	
FILE NAME: pl6v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
TYPICAL SECTION SHEET 1	SHEET 4 OF 54



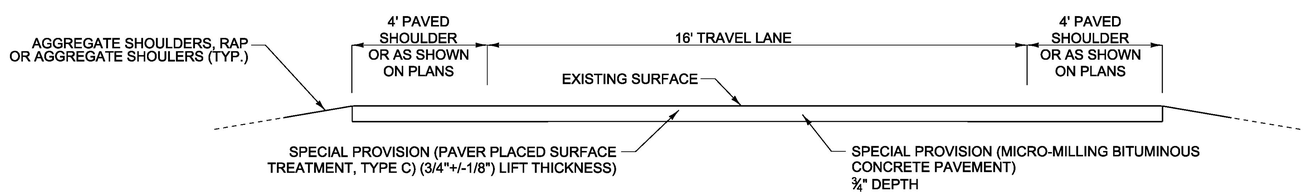
ROADWAY TYPICAL NORMAL SECTION

NOT TO SCALE
MM 98.000 - MM 118.200 (NORTHBOUND)
MM 98.000 - MM 118.200 (SOUTHBOUND)



ROADWAY TYPICAL BANKED SECTION

NOT TO SCALE
MM 98.000 - MM 118.200 (NORTHBOUND)
MM 98.000 - MM 118.200 (SOUTHBOUND)



TYPICAL RAMP SECTION

NOT TO SCALE
MM 98.000 - MM 118.200 (NORTHBOUND)
MM 98.000 - MM 118.200 (SOUTHBOUND)

NOTE:

1. PERFORMANCE GRADED BINDER SHALL BE PG 70-28.

PROJECT NAME: COLCHESTER-SWANTON	
PROJECT NUMBER: IM SURF(56)	
FILE NAME: pl6v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
TYPICAL SECTION SHEET 2	SHEET 5 OF 54

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES									TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
						ROADWAY	TRAINING	BRIDGE	FULL C.E.	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
						50000				50000		LF	SHOULDER BERM REMOVAL	203.40	EST.			U-TURNS
						1				1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-	4650	SY	COLD PLANING, BITUMINOUS PAVEMENT
						4650				4650		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	11	40	CWT	EMULSIFED ASPHALT
													BEGIN OPTION AA			410	TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
						700				700		TON	AGGREGATE SHOULDERS	402.12	EST.	344	SY	MICRO-MILLING
						700				700		TON	AGGREGATE SHOULDERS, RAP	402.13	EST.	344	SY	PAVER-PLACED SURFACE TREATMENT, TYPE C
													END OPTION AA					
						40				40		CWT	EMULSIFIED ASPHALT	404.65	EST.			
						1				1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-			
						52000				52000		LB	BITUMINOUS CRACK SEALING, "BLOW AND GO" METHOD	417.20	EST.			
						410				410		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	4			
								410		410		LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG (@ FINGER/VERMONT JOINT)	516.10	EST.			
								1850		1850		LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	EST.			
								100		100		CF	RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE	580.20	EST.			
						12				12		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	-			
						200				200		HR	POWER BROOM RENTAL, TYPE I	608.30	EST.			
						200				200		HR	POWER BROOM RENTAL, TYPE II	608.31	EST.			
						200				200		HR	TRUCK RENTAL	608.37	EST.			
						200				200		HR	TRUCK-MOUNTED ATTENUATOR	608.45	EST.			
						100				100		HR	TRUCK-MOUNTED ATTENUATOR, AWV/PV	608.50	EST.			
						2000				2000		HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.			
						1000				1000		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	-			
							520			520		HR	EMPLOYEE TRAINEESHIP	634.10	-			
						1				1		LS	MOBILIZATION/DEMOBILIZATION	635.11	-			
						1				1		LS	TRAFFIC CONTROL	641.10	-			
						9				9		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-			
						382500				382500		LF	TEMPORARY 6 INCH WHITE LINE, PAINT	646.622	326			
						296000				296000		LF	TEMPORARY 6 INCH YELLOW LINE, PAINT	646.632	56			
						7200				7200		LF	TEMPORARY 12 INCH WHITE LINE, PAINT	646.662	35			
						200				200		LF	TEMPORARY 24 INCH STOP BAR, PAINT	646.682	9			
						108				108		EACH	TEMPORARY LETTER OR SYMBOL, PAINT	646.692	-			
						36500				36500		EACH	LINE STRIPING TARGETS	646.76	91			
						130				130		SF	REMOVAL OF EXISTING PAVEMENT MARKINGS	646.85	EST.			
						1				1		LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	-			
						5				5		EACH	SPECIAL PROVISION (CPM SCHEDULE)	900.620	-			

PROJECT NAME: COLCHESTER-SWANTON
PROJECT NUMBER: IM SURF(56)

FILE NAME: pl6v071_wrk.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: B. KIPP
QUANTITY SHEET 1

PLOT DATE: 22-DEC-2016
DRAWN BY: B. KIPP
CHECKED BY: M. FOWLER
SHEET 6 OF 54

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES

ROADWAY	TRAINING	BRIDGE	FULL C.E.	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND
							BEGIN OPTION BB		
108				108		EACH	SPECIAL PROVISION (DURABLE LETTER OR SYMBOL, EPOXY)(28 MILS)	900.620	-
108				108		EACH	SPECIAL PROVISION (DURABLE LETTER OR SYMBOL, POLYUREA)(28 MILS)	900.620	-
							END OPTION BB		
			76	76		EACH	SPECIAL PROVISION (PAVEMENT FRICTION TESTING)	900.620	EST.
1				1		EACH	SPECIAL PROVISION (REMOVE AND REPLACE TRAFFIC SIGNAL CONTROLLER)(MS 828)	900.620	-
1				1		EACH	SPECIAL PROVISION (REMOVE AND REPLACE TRAFFIC SIGNAL CONTROLLER)(MS 829)	900.620	-
1				1		EACH	SPECIAL PROVISION (VEHICLE SIGNAL HEADS, LED)(MS-828)	900.620	-
1				1		EACH	SPECIAL PROVISION (VEHICLE SIGNAL HEADS, LED)(MS-829)	900.620	-
170100				170100		LB	SPECIAL PROVISION (COVER COAT MATERIAL, SAND)	900.635	61
							BEGIN OPTION EE		
7200				7200		LF	SPECIAL PROVISION (DURABLE 12 INCH WHITE LINE, EPOXY)(28 MILS)	900.640	35
7200				7200		LF	SPECIAL PROVISION (DURABLE 12 INCH WHITE LINE, POLYUREA)(28 MILS)	900.640	35
							END OPTION EE		
							BEGIN OPTION FF		
200				200		LF	SPECIAL PROVISION (DURABLE 24 INCH STOP BAR, EPOXY)(28 MILS)	900.640	9
200				200		LF	SPECIAL PROVISION (DURABLE 24 INCH STOP BAR, POLYUREA)(28 MILS)	900.640	9
							END OPTION FF		
							BEGIN OPTION CC		
382500				382500		LF	SPECIAL PROVISION (DURABLE 6 INCH WHITE LINE, EPOXY)(28 MILS)	900.640	326
382500				382500		LF	SPECIAL PROVISION (DURABLE 6 INCH WHITE LINE, POLYUREA)(28 MILS)	900.640	326
							END OPTION CC		
							BEGIN OPTION DD		
296000				296000		LF	SPECIAL PROVISION (DURABLE 6 INCH YELLOW LINE, EPOXY)(28 MILS)	900.640	56
296000				296000		LF	SPECIAL PROVISION (DURABLE 6 INCH YELLOW LINE, POLYUREA)(28 MILS)	900.640	56
							END OPTION DD		
923200				923200		SY	SPECIAL PROVISION (MICRO-MILLING BITUMINOUS CONCRETE PAVEMENT)	900.675	162
923200				923200		SY	SPECIAL PROVISION (PAVER-PLACED SURFACE TREATMENT, TYPE C)(PG 70-28)(SBS POLYMER)	900.675	162
100				100		TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE I)	900.680	EST.
3430				3430		CWT	SPECIAL PROVISION (EMULSIFIED ASPHALT SEAL COAT)	900.683	6

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		SPECIAL PROVISION (MICRO-MILLING BITUMINOUS CONCRETE PAVEMENT)
828400	SY	MAINLINE (NB & SB)
20747	SY	EXIT 17 RAMPS, DECEL. & ACCEL. LANES
18851	SY	EXIT 18 RAMPS, DECEL. & ACCEL. LANES
28309	SY	EXIT 19 RAMPS, DECEL. & ACCEL. LANES
17107	SY	EXIT 20 RAMPS, DECEL. & ACCEL. LANES
5133	SY	GEORGIA REST AREA NB - DECEL. & ACCEL. LANES
4147	SY	GEORGIA REST AREA SB - DECEL. & ACCEL. LANES
344	SY	U-TURNS
162	SY	ROUNDING
923200	SY	TOTAL
		SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C)(PG 70-28)(SBS POLYMER)
828400	SY	MAINLINE (NB & SB)
20747	SY	EXIT 17 RAMPS, DECEL. & ACCEL. LANES
18851	SY	EXIT 18 RAMPS, DECEL. & ACCEL. LANES
28309	SY	EXIT 19 RAMPS, DECEL. & ACCEL. LANES
17107	SY	EXIT 20 RAMPS, DECEL. & ACCEL. LANES
5133	SY	GEORGIA REST AREA NB - DECEL. & ACCEL. LANES
4147	SY	GEORGIA REST AREA SB - DECEL. & ACCEL. LANES
344	SY	U-TURNS
162	SY	ROUNDING
923200	SY	TOTAL

PROJECT NAME: COLCHESTER-SWANTON
PROJECT NUMBER: IM SURF(56)

FILE NAME: pl6v071_wrk.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: B. KIPP
QUANTITY SHEET 2

PLOT DATE: 22-DEC-2016
DRAWN BY: B. KIPP
CHECKED BY: M. FOWLER
SHEET 7 OF 54

1. ALL NECESSARY SURFACE PREPARATION INVOLVING PATCHING, POTHOLE REPAIR, AND CRACK-SEALING SHALL BE PERFORMED AFTER COMPLETION OF MICRO-MILLING AND PRIOR TO APPLICATION OF THE FINAL SURFACE TREATMENT. ALL CRACKS GREATER THAN 0.10" AND UP TO 1.0" 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" 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.

2. EXISTING SHOULDER PAVEMENT SURFACES BEYOND THE LIMITS OF THE FINAL SURFACE TREATMENT WILL RECEIVE CRACK-SEALING AND RELATED PATCHING AND POTHOLE REPAIR TREATMENTS. CRACK-SEAL AND RELATED PATCHING AND POTHOLE REPAIR TREATMENTS SHALL BE COMPLETED PRIOR TO APPLICATION OF FOG SEAL AND COVER MATERIAL FOR SHOULDERS.

3. FOLLOWING COMPLETION OF MICRO-MILLING, THE MILLED SURFACE FOR ALL BRIDGES TO BE MILLED SHALL ALSO RECEIVE CRACK-SEALING AND RELATED PATCHING AND POTHOLE REPAIR TREATMENTS, AS DIRECTED BY THE ENGINEER.

4. ALL LANE DELINEATION IS TO BE MAINTAINED DURING CONSTRUCTION BY THE USE OF LINE STRIPING TARGETS OR TEMPORARY PAINT.

5. IF IT IS DETERMINED BY THE ENGINEER 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. AN ESTIMATED QUANTITY FOR ITEM 203.40 SHOULDER BERM REMOVAL HAS BEEN INCLUDED TO COVER THE COSTS ASSOCIATED WITH THIS WORK.

6. THERE ARE R.W.I.S SENSORS WITHIN THE PAVEMENT AT MM 101.000 WITHIN THE NORTH AND SOUTHBOUND LANES THAT MAY BE IMPACTED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CONTACT MARK GERRISH, FIBER OPTIC PROJECT MANAGER, VTRANS OPERATIONS AND MAINTENANCE BUREAU AT 802-461-5570 48 HOURS PRIOR TO BEGINNING ANY WORK IN THIS AREA SO THAT MARK OR HIS REPRESENTATIVE CAN REMOVE THESE SENSORS. INSTALLATION OF NEW SENSORS WILL BE PERFORMED BY OTHERS FOLLOWING COMPLETION OF THE PROJECT.

7. AN ESTIMATED QUANTITY OF ITEM 604.412 - REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I IS INCLUDED IN THE CONTRACT FOR INTERSTATE RAMPS WITHIN EACH INTERCHANGE.

8. FOR THE PURPOSES OF QUANTITY CALCULATION IT HAS BEEN ASSUMED ITEM 900.635 - SPECIAL PROVISION (COVER COAT MATERIAL, SAND) WILL BE APPLIED AT A RATE OF 0.50 LBS PER SQUARE YARD.

9. PRIOR TO THE THE APPLICATION OF 900.693 - SPECIAL PROVISION (EMULSIFED ASPHALT SEAL COAT) AND SPECIAL PROVISION (COVER COAT MATERIAL, SAND), FRICTION TEST STRIPS WILL OCCUR WITHIN THE FRICTION ZONES INDICATED IN THE TABLES BELOW. TEST 1, TEST 2 AND TEST 3 MUST OCCUR RANDOM A LOCATION WITHIN EACH FRICTION TESTING ZONE AND APPROVED BY THE ENGINEER.

10. ADDITIONAL TESTING FREQUENCY SHALL BE A MINIMUM OF 1 TEST PER MILE OR AS DIRECTED BY THE ENGINEER.

FRICTION TESTING ZONES	BEGIN MM	END MM
ZONE 1 (NB & SB)	91.880	98.000
ZONE 2 (NB)	98.000	106.900
ZONE 3 (SB)	98.000	106.900
ZONE 4 (NB & SB)	106.900	114.100
ZONE 5 (NB & SB)	114.100	118.200

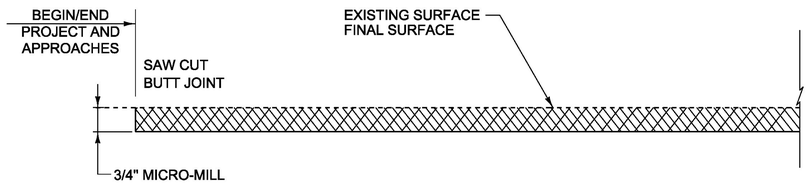
INITIAL FRICTION TESTING - SPECIAL PROVISION (PAVEMENT FRICTION TESTING)

	TEST 1	TEST 2	TEST 3	TOTALS
ZONE 1 (NB)	1	1	1	3
ZONE 1 (SB)	1	1	1	3
ZONE 2 (NB)	1	1	1	3
ZONE 3 (SB)	1	1	1	3
ZONE 4 (NB)	1	1	1	3
ZONE 4 (SB)	1	1	1	3
ZONE 5 (NB)	1	1	1	3
ZONE 5 (SB)	1	1	1	3
				24

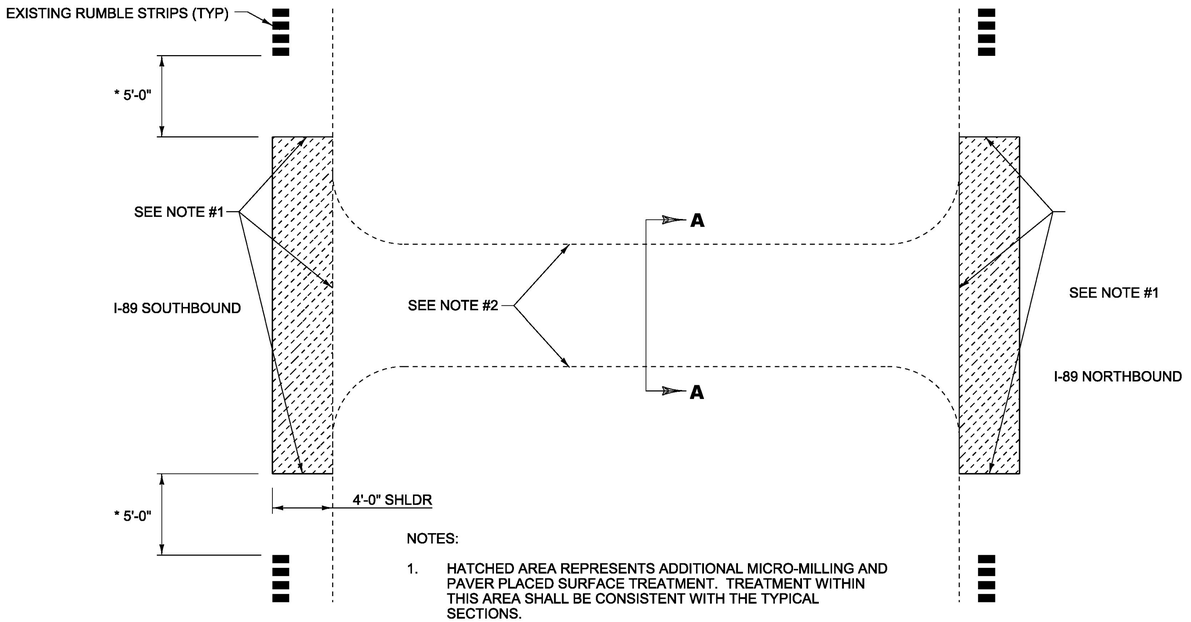
PROJECT NAME: COLCHESTER-SWANTON
PROJECT NUMBER: IM SURF(56)

FILE NAME: pl6v07l_wrk.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: B. KIPP
PROJECT NOTES SHEET

PLOT DATE: 29-DEC-2016
DRAWN BY: B. KIPP
CHECKED BY: M. FOWLER
SHEET 8 OF 54

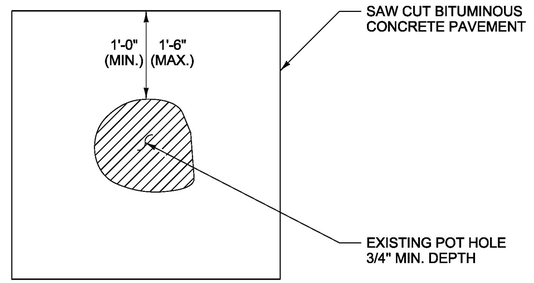


TYPICAL APPROACH AREA DETAIL MAINLINE & RAMPS



NOTES:

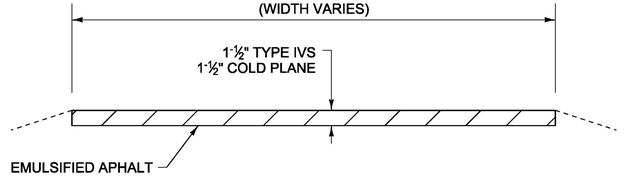
1. HATCHED AREA REPRESENTS ADDITIONAL MICRO-MILLING AND PAVER PLACED SURFACE TREATMENT. TREATMENT WITHIN THIS AREA SHALL BE CONSISTENT WITH THE TYPICAL SECTIONS.
2. AREA TO BE PAVED AS SHOWN IN SECTION A-A. EMULSIFED ASPHALT SHALL BE APPLIED AT A RATE OF 0.10 GAL/SY.
3. BEGIN MICRO-MILL 5'-0" AFTER RUMBLE STRIPS END, AND END MICRO-MILL 5'-0" BEFORE RUMBLE STRIPS BEGIN, HOWEVER FIELD CONDITIONS MAY ONLY ALLOW FOR FOR ADDITIONAL TREATMENT TO BEGIN 1'-0" AFTER RUMBLE STRIPS END, AND END MICRO-MILL 1'-0" BEFORE RUMBLE STRIPS BEGIN.



TYPICAL – POT HOLE REPAIR

NOTE:

EMULSIFIED ASPHALT SHALL BE APPLIED AT ALL PATCH INTERFACES AT A RATE OF 0.25 - 0.50 GAL/SY. EMULSIFIED ASPHALT SHALL MEET THE REQUIREMENTS OF SECTION 404 AND WILL BE CONSIDERED INCIDENTAL TO SPECIAL PROVISION(BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE I)



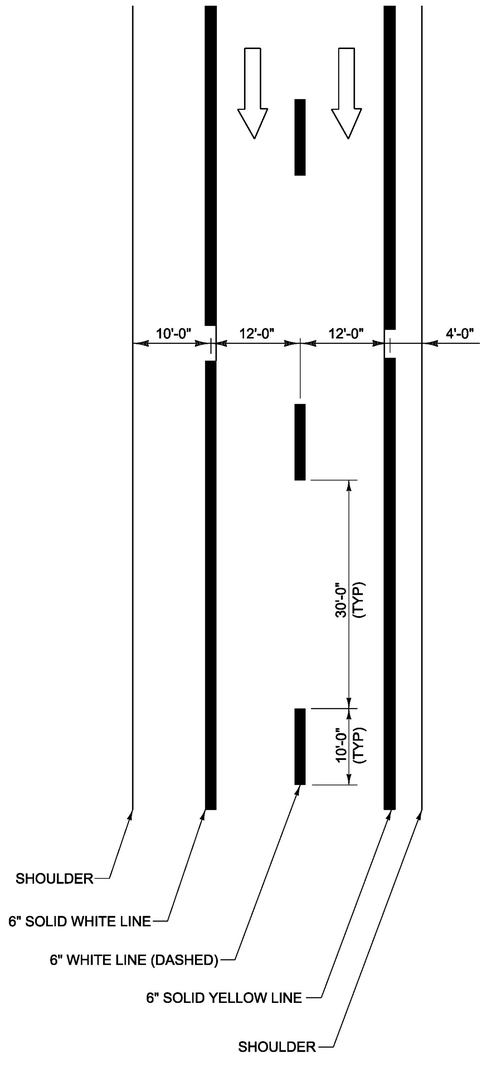
SECTION A–A

U–TURN TREATMENT DETAILS

MM 95.183	MM 111.187
MM 98.314	MM 111.579
NOT DONE — MM 100.870	MM 113.323
MM 100.870 (EMERGENCY ACCESS)	MM 114.125
U-TURN INCLUDED IN J.P. SICARD PROJECT — MM 103.600	MM 115.675
MM 106.250	MM 117.238
MM 107.269	MM 117.551
MM 107.621	MM 117.956
MM 107.990	MM 97.5 ADDED

NOT TO SCALE

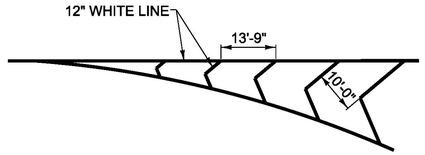
PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: pl6v07l_wrk.dgn	PLOT DATE: 29-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
DETAIL SHEET	SHEET 9 OF 54



TYPICAL MAINLINE MARKING PLAN
NOT TO SCALE

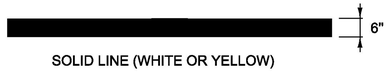
LEGEND

DIRECTION OF TRAFFIC FLOW



GORE MARKING DETAIL
NOT TO SCALE

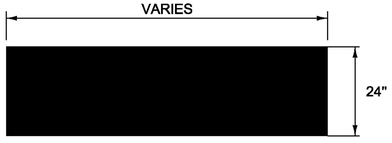
DOTTED LINE (WHITE)



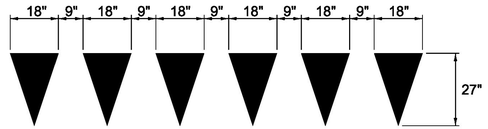
SOLID LINE (WHITE OR YELLOW)

CHANNELIZING LINE (WHITE)

PAVEMENT MARKING LINE DETAILS
NOT TO SCALE



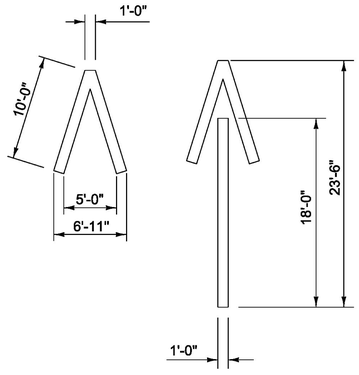
STOP BAR DETAIL
NOT TO SCALE



YIELD LINE DETAILS

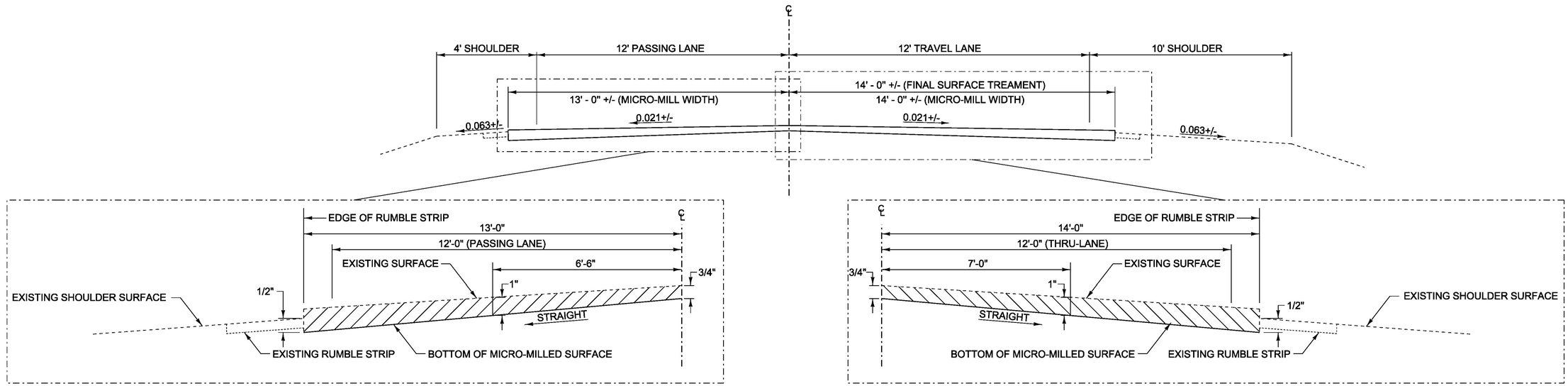
NOTE:

1. EACH TRIANGLE WILL BE PAID FOR AS ONE EACH DURABLE LETTER OR SYMBOL.



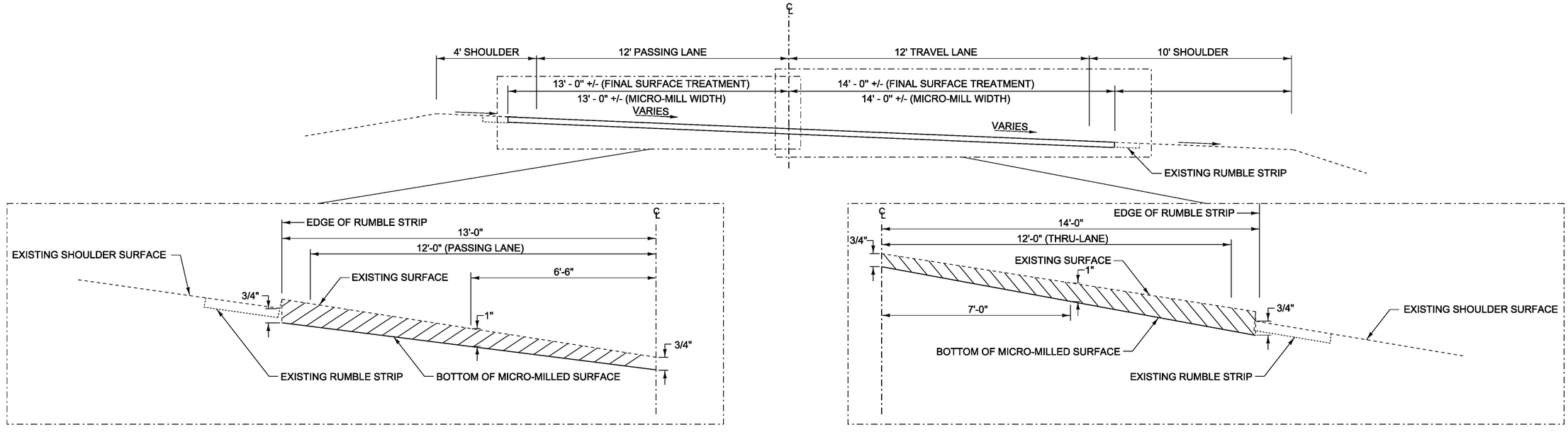
WRONG WAY ARROW
NOT TO SCALE
MARKINGS TO BE PLACED AT EXISTING WRONG WAY SIGN

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: pl6v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
PAVEMENT MARKING DETAIL	SHEET 10 OF 54



MICRO-MILLING DETAIL – NORMAL SECTION

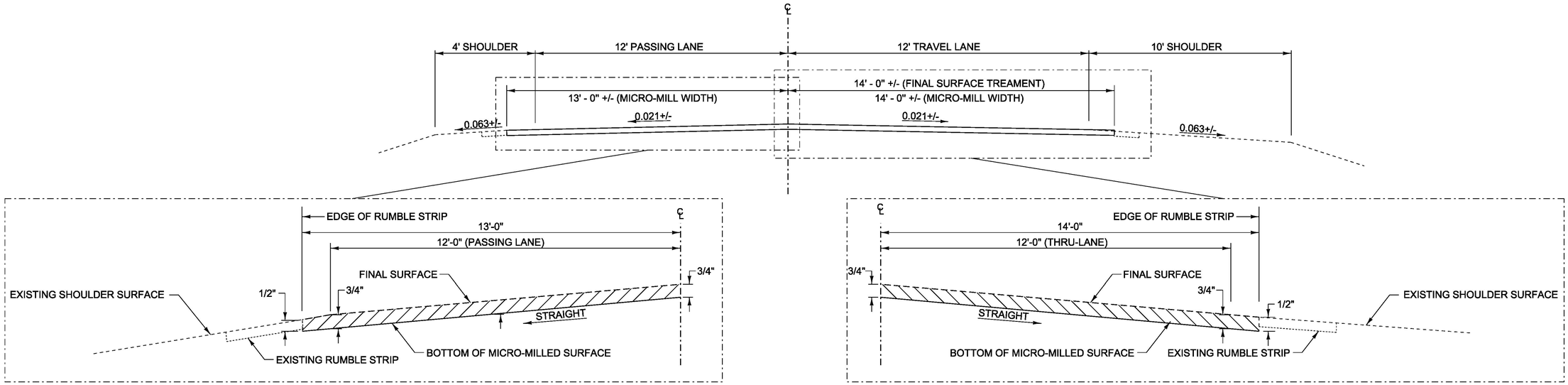
NOT TO SCALE
MM 91.880 - MM 98.000 (NORTHBOUND)
MM 91.880 - MM 98.000 (SOUTHBOUND)



MICRO-MILLING DETAIL – BANKED SECTION

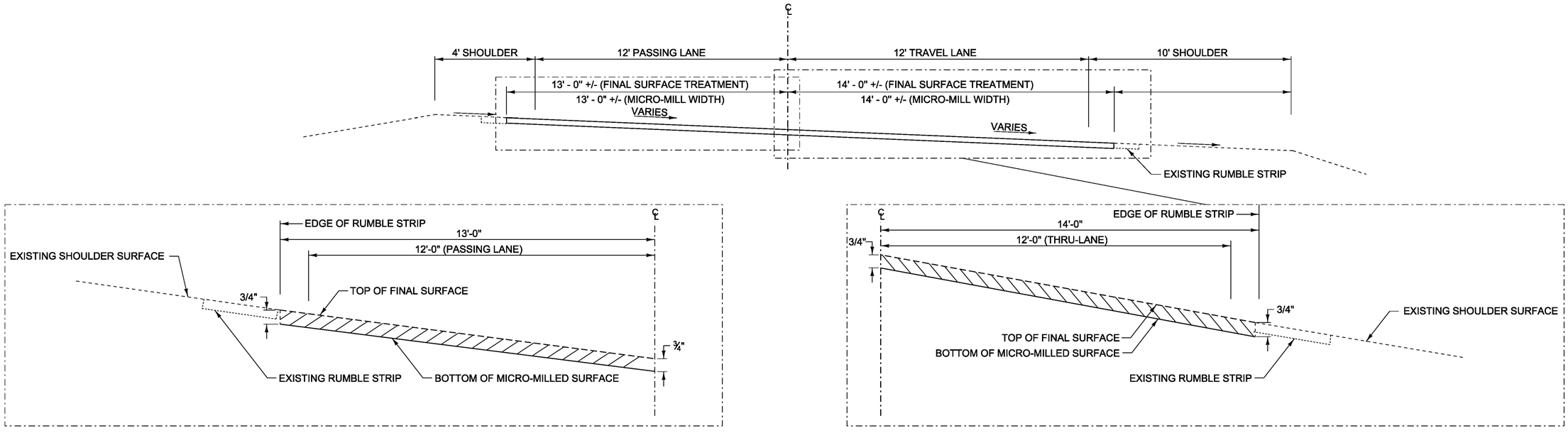
NOT TO SCALE
MM 91.880 - MM 98.000 (NORTHBOUND)
MM 91.880 - MM 98.000 (SOUTHBOUND)

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: p16v07l_wrk.dgn	PLOT DATE: 29-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
MICROMILLING DETAIL SHEET	SHEET 11 OF 54



IN–LAY DETAIL – NORMAL SECTION

NOT TO SCALE
MM 91.880 - MM 98.000 (NORTHBOUND)
MM 91.880 - MM 98.000 (SOUTHBOUND)



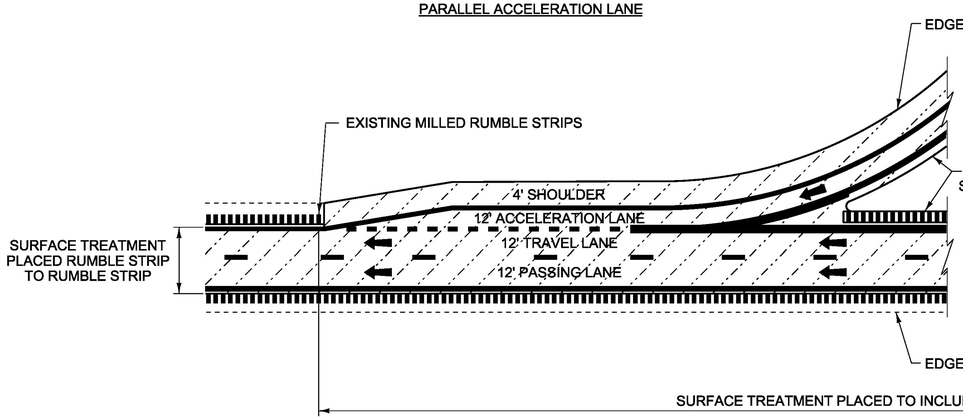
IN–LAY DETAIL – BANKED SECTION

NOT TO SCALE
MM 91.880 - MM 98.000 (NORTHBOUND)
MM 91.880 - MM 98.000 (SOUTHBOUND)

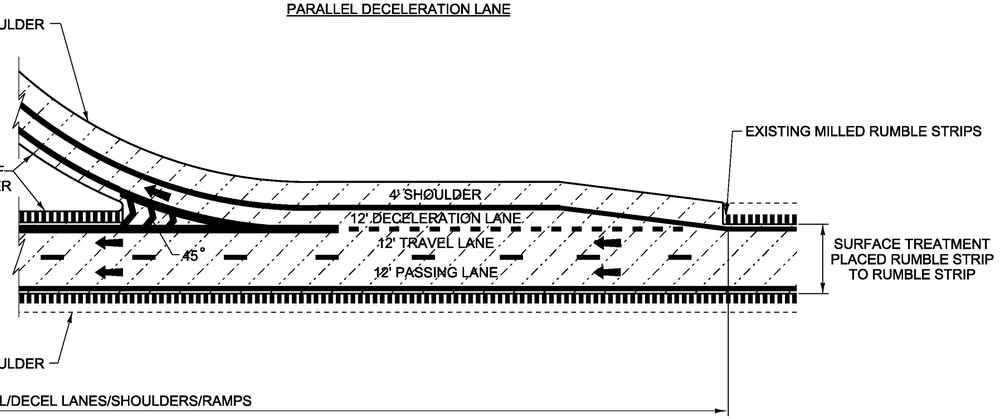
PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: p16v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
INLAY DETAIL SHEET	SHEET 12 OF 54

TYPICAL INTERCHANGE CONSTRUCTION DETAILS

PARALLEL ACCELERATION LANE

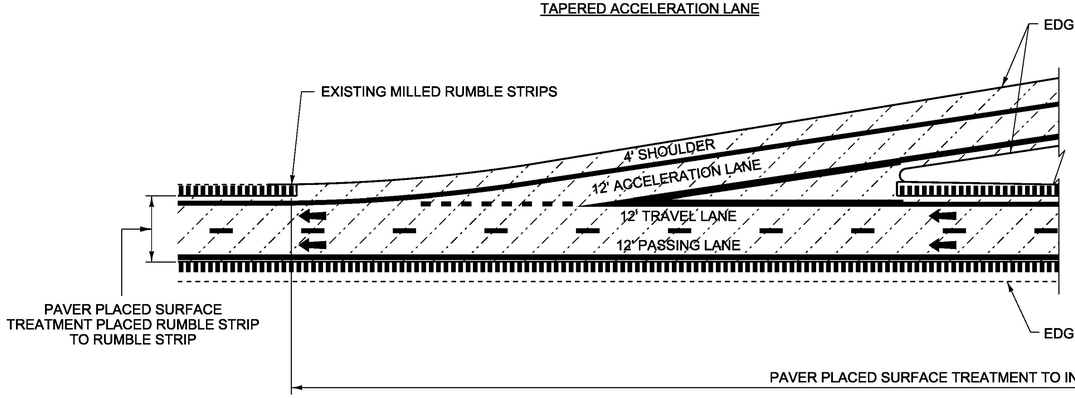


PARALLEL DECELERATION LANE

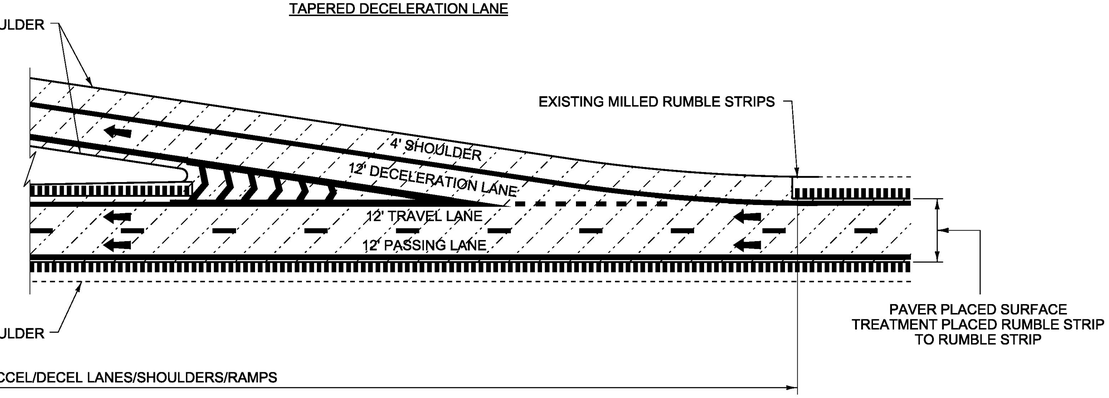


SURFACE TREATMENT PLACED TO INCLUDE ACCEL/DECEL LANES/SHOULDERS/RAMPS

TAPERED ACCELERATION LANE



TAPERED DECELERATION LANE



PAVER PLACED SURFACE TREATMENT TO INCLUDE ACCEL/DECEL LANES/SHOULDERS/RAMPS

NOTES:
1. LINE STRIPING SHOWN FOR REFERENCE ONLY.

LEGEND

PAVER PLACED SURFACE TREATMENT

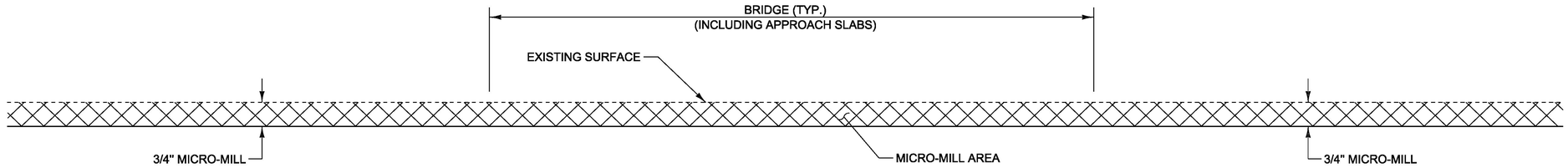
DIRECTION OF TRAFFIC FLOW

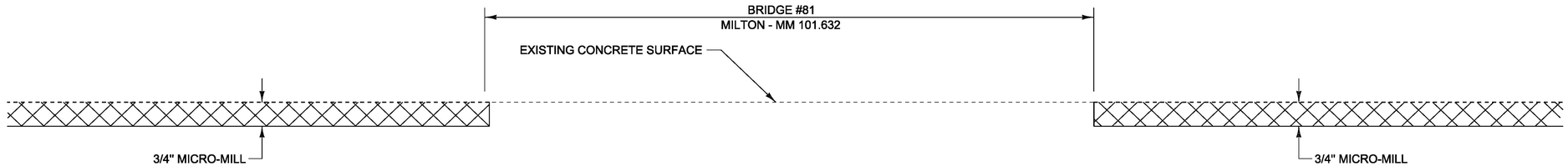
EXISTING MILLED RUMBLE STRIPS

NOT TO SCALE

NOT TO SCALE

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: p16v07l_wrk.dgn	PLOT DATE: 29-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
TYPICAL INTERCHANGE CONSTRUCTION DETAIL SHEET	SHEET 13 OF 54





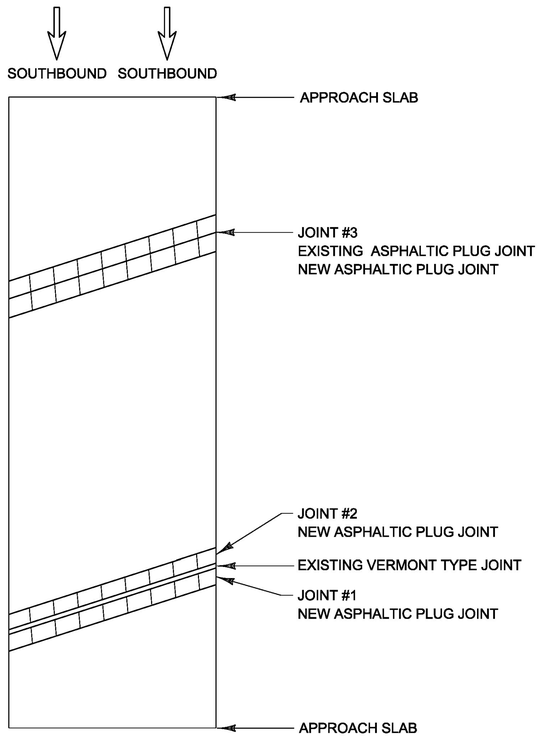
BRIDGE MICRO-MILL DETAILS

NOT TO SCALE

NOTES:

1. ALL NEW JOINTS TO BE INSTALLED PER SD-516.10 AND PAID FOR UNDER ITEM 516.10, "BRIDGE EXPANSION JOINT, ASPHALTIC PLUG." REFER TO THE FOLLOWING BRIDGE DETAIL SHEETS.
2. AN ESTIMATED QUANTITY OF ITEM 580.20, "CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE" IS TO BE USED AS NECESSARY THROUGHOUT THE PROJECT LIMITS.
3. BRIDGES ARE TO BE PAVED FULL WIDTH.
4. 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.
5. 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.
6. THE CONTRACTOR SHALL USE CAUTION WHEN MICRO-MILLING 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 ENGINEER TO BE AT FAULT FOR THE DAMAGE, THE RECOMMENDED REPAIRS SHALL BE COMPLETED BY THE CONTRACTOR AT NO COST TO THE STATE.

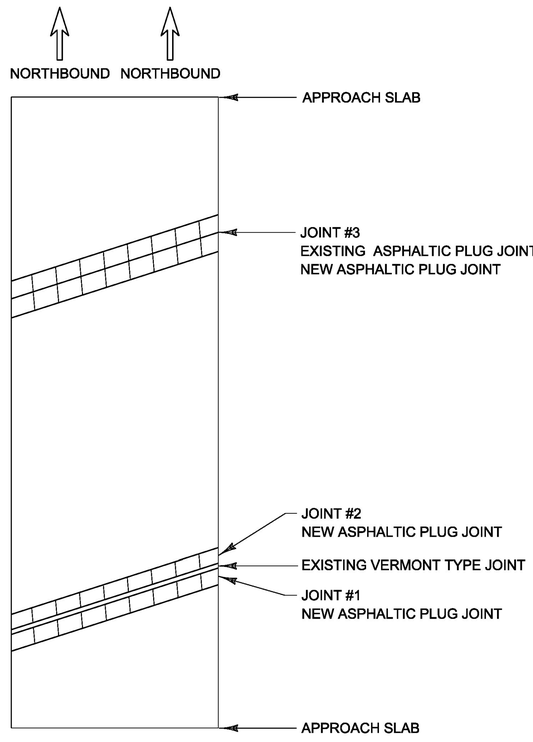
PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: p16v071_wrk.dgn	PLOT DATE: 29-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
BRIDGE DETAIL SHEET 1	SHEET 14 OF 54



BRIDGE #76-S

MM 95.307 - COLCHESTER

LENGTH OF NEW ASPHALTIC PLUG JOINTS:
JOINT #1 = 31'
JOINT #2 = 31'
JOINT #3 = 31'
TOTAL = 93'

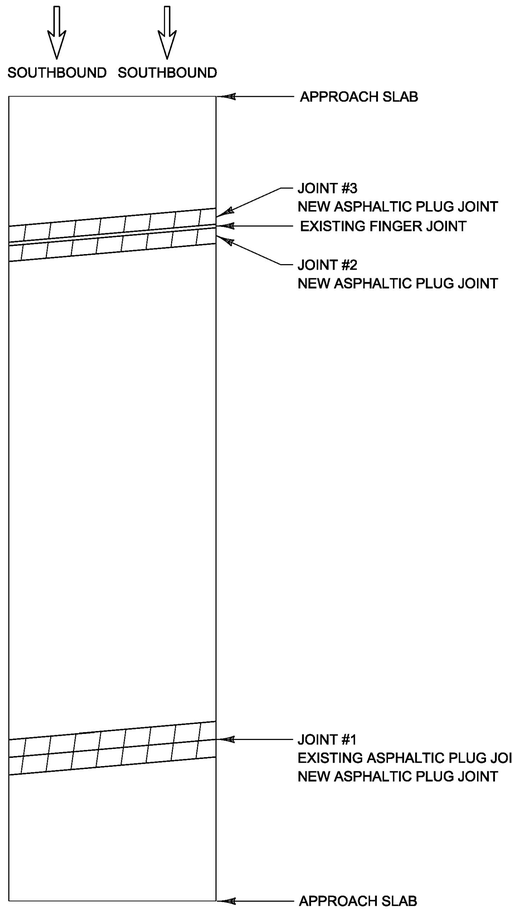


BRIDGE #76-N

MM 95.307 - COLCHESTER

LENGTH OF NEW ASPHALTIC PLUG JOINTS:
JOINT #1 = 31'
JOINT #2 = 31'
JOINT #3 = 31'
TOTAL = 93'

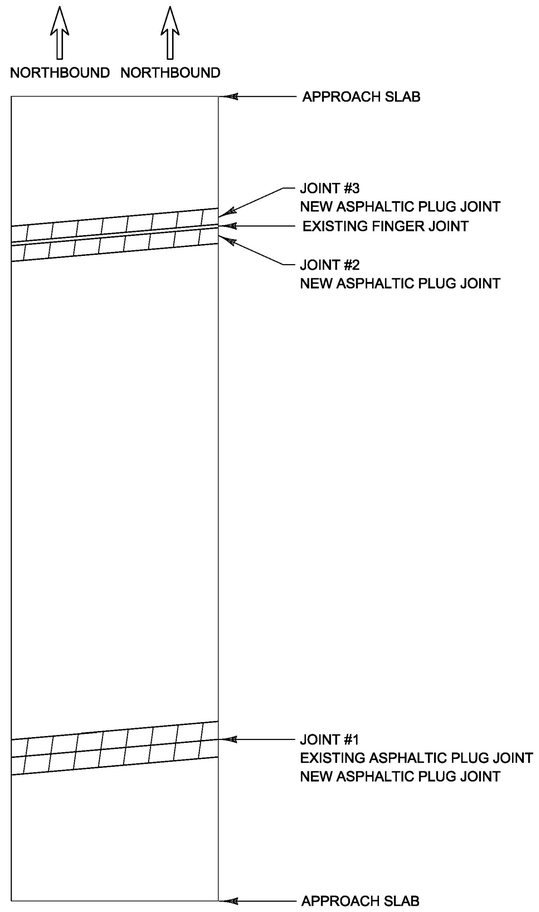
PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: p16v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
BRIDGE DETAIL SHEET 2	SHEET 15 OF 54



BRIDGE #77-S

MM 96.566 - COLCHESTER

LENGTH OF NEW ASPHALTIC PLUG JOINTS:
JOINT #1 = 31'
JOINT #2 = 31'
JOINT #3 = 31'
TOTAL = 93'

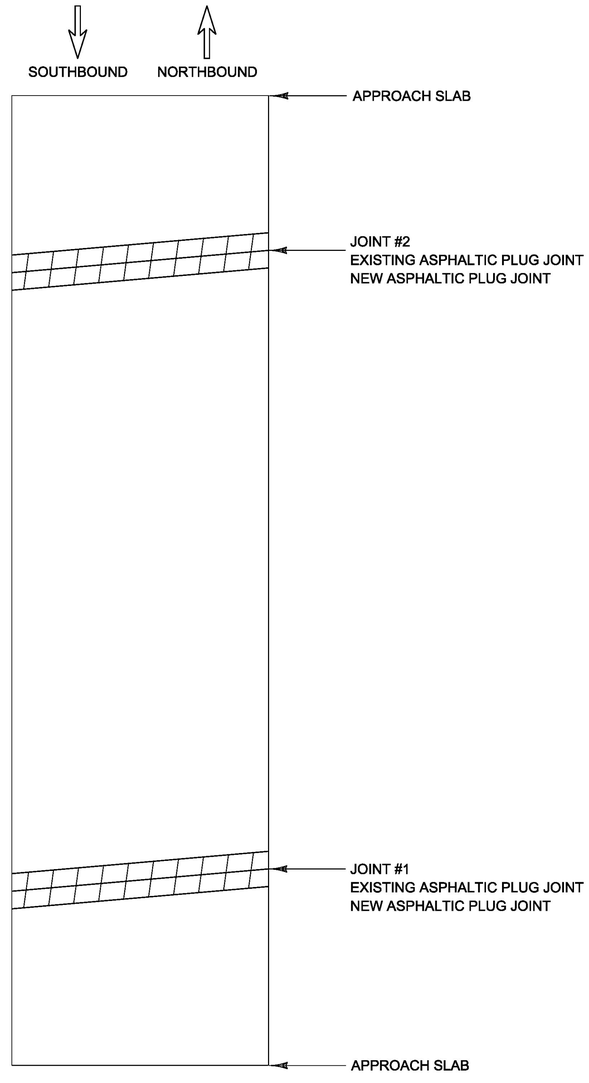


BRIDGE #77-N

MM 96.566 - COLCHESTER

LENGTH OF NEW ASPHALTIC PLUG JOINTS:
JOINT #1 = 31'
JOINT #2 = 31'
JOINT #3 = 31'
TOTAL = 93'

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: pl6v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
BRIDGE DETAIL SHEET 3	SHEET 16 OF 54



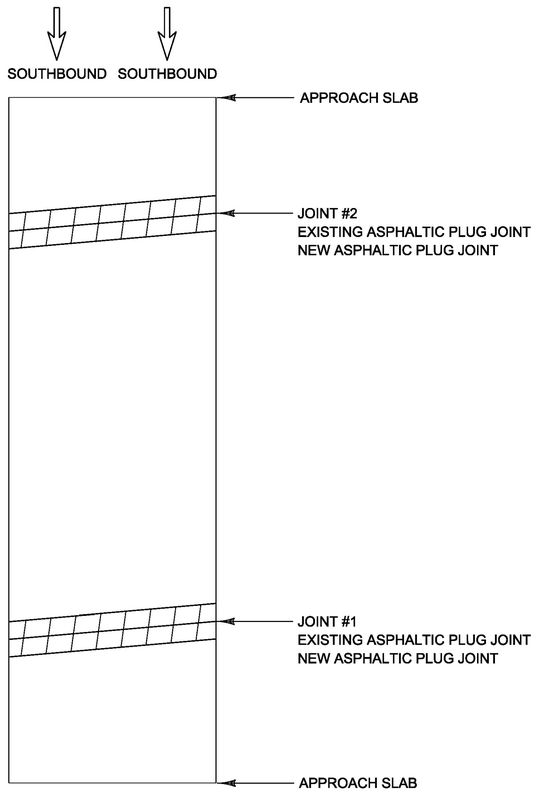
BRIDGE #81

MM 101.632 - MILTON

LENGTH OF NEW ASPHALTIC PLUG JOINTS:
JOINT #1 = 106'
JOINT #2 = 106'
TOTAL = 212'

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)

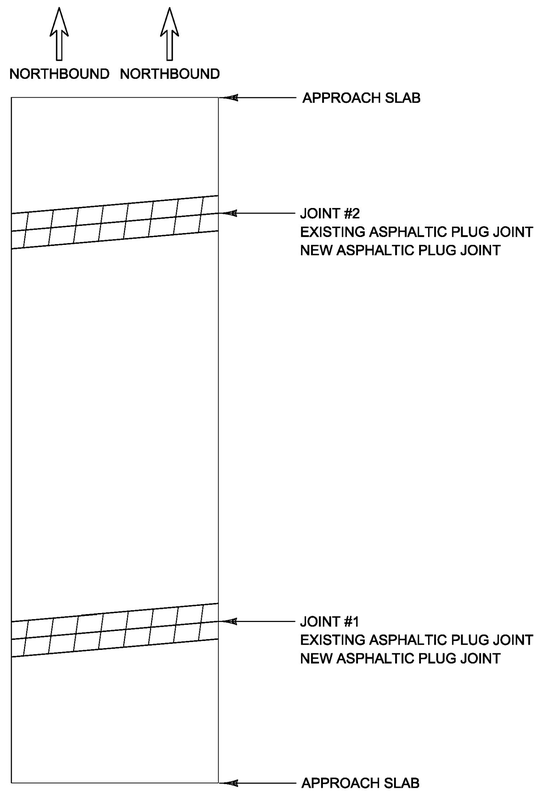
FILE NAME: p16v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
BRIDGE DETAIL SHEET 4	SHEET 17 OF 54



BRIDGE #84–S

MM 105.670 - GEORGIA

LENGTH OF NEW ASPHALTIC PLUG JOINTS:
JOINT #1 = 37'
JOINT #2 = 37'
TOTAL = 74'

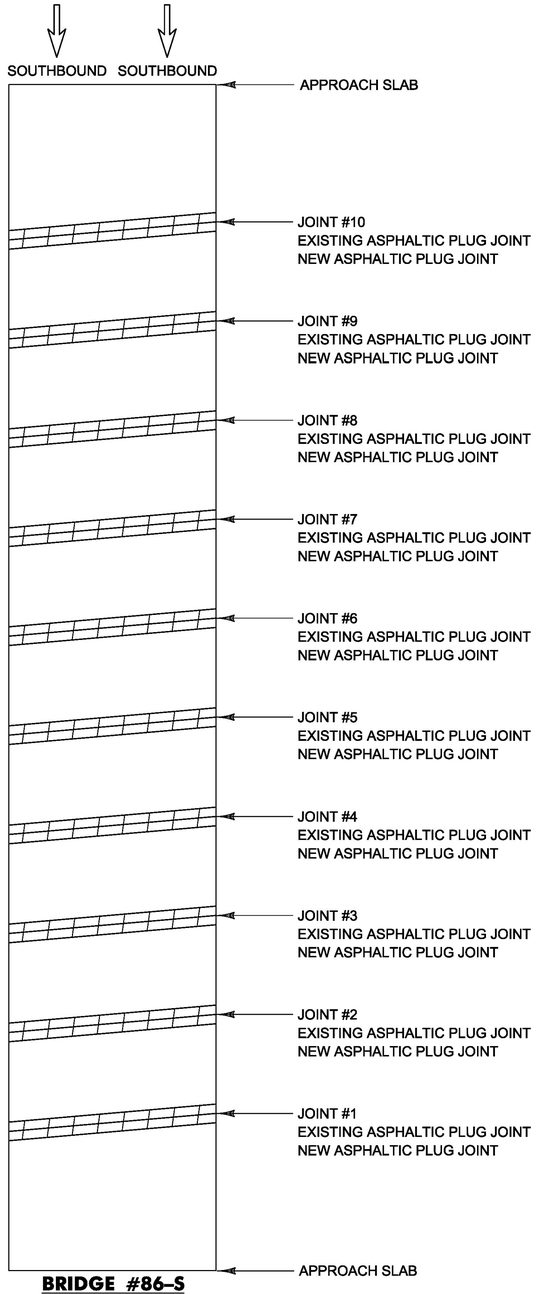


BRIDGE #84–N

MM 105.670 - GEORGIA

LENGTH OF NEW ASPHALTIC PLUG JOINTS:
JOINT #1 = 39'
JOINT #2 = 39'
TOTAL = 78'

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: p16v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
BRIDGE DETAIL SHEET 5	SHEET 18 OF 54



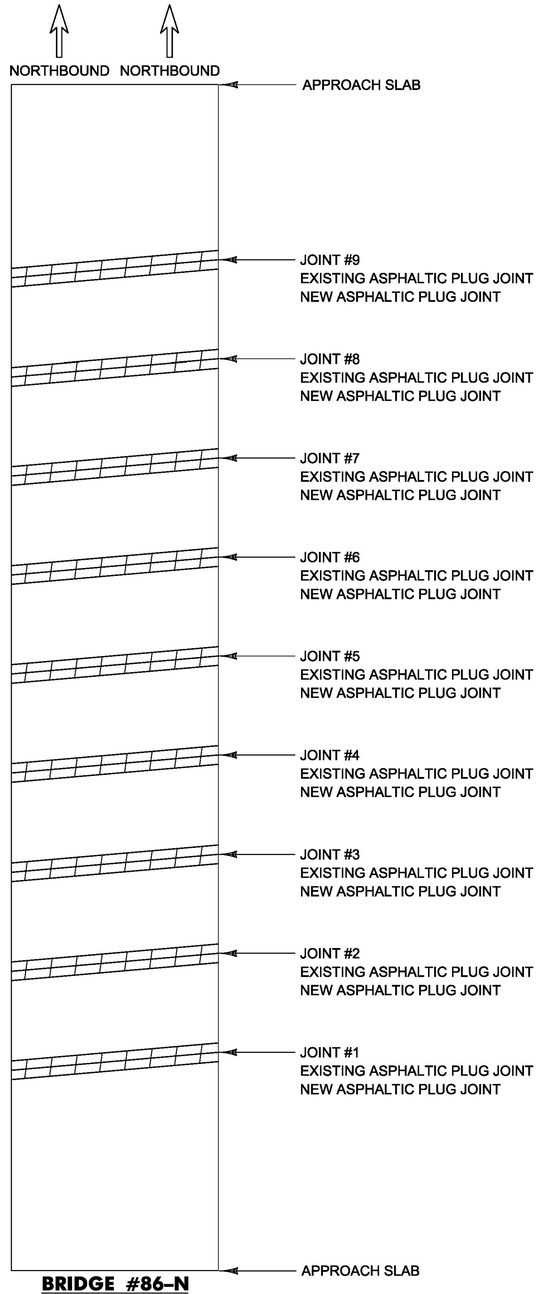
BRIDGE #86-S

MM 105.670 - GEORGIA

LENGTH OF NEW ASPHALTIC PLUG JOINTS:

JOINT #1 = 30'	JOINT #6 = 30'
JOINT #2 = 30'	JOINT #7 = 30'
JOINT #3 = 30'	JOINT #8 = 30'
JOINT #4 = 30'	JOINT #9 = 30'
JOINT #5 = 30'	JOINT #10 = 30'

TOTAL = 300'



BRIDGE #86-N

MM 105.670 - GEORGIA

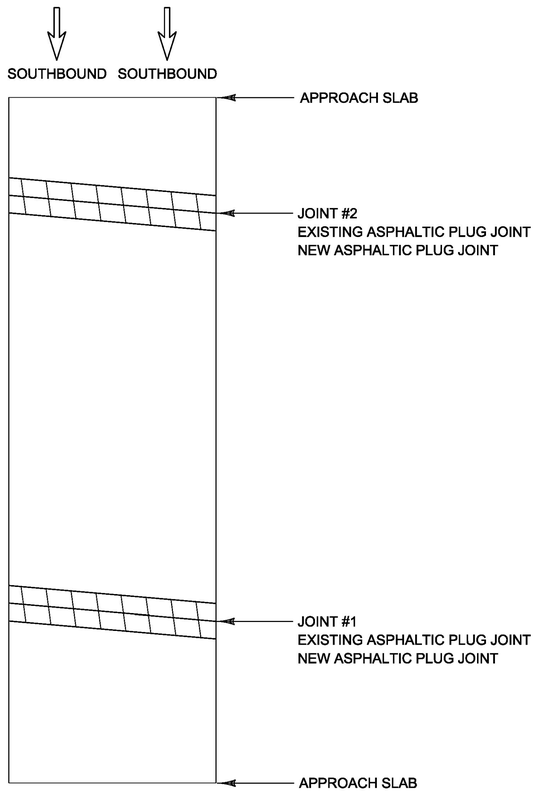
LENGTH OF NEW ASPHALTIC PLUG JOINTS:

JOINT #1 = 30'	JOINT #6 = 30'
JOINT #2 = 30'	JOINT #7 = 30'
JOINT #3 = 30'	JOINT #8 = 30'
JOINT #4 = 30'	JOINT #9 = 30'
JOINT #5 = 30'	

TOTAL = 270'

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)

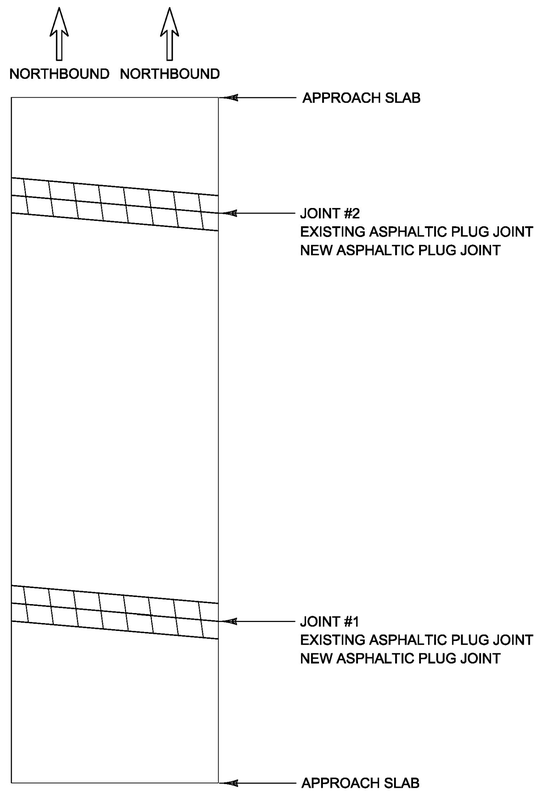
FILE NAME: pl6v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
BRIDGE DETAIL SHEET 6	SHEET 19 OF 54



BRIDGE #87-S

MM 111.351 - FAIRFAX

LENGTH OF NEW ASPHALTIC PLUG JOINTS:
JOINT #1 = 37'
JOINT #2 = 37'
TOTAL = 74'

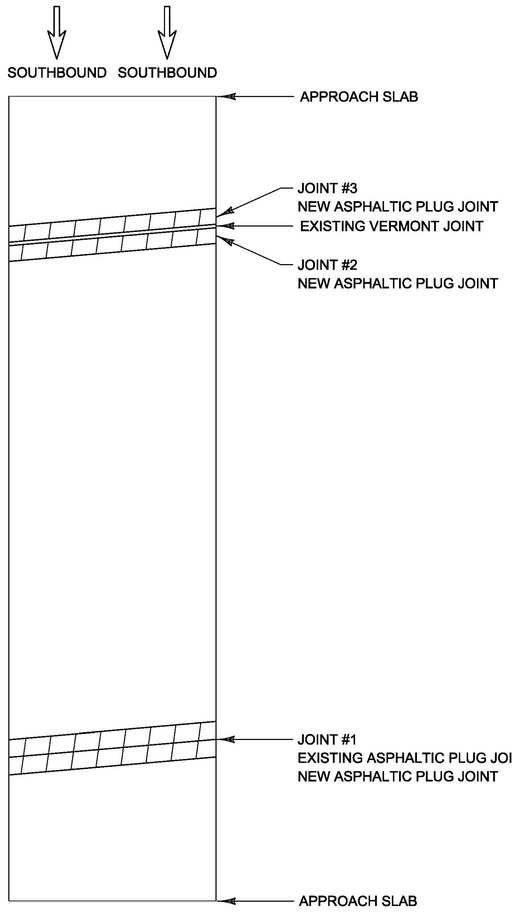


BRIDGE #87-N

MM 111.351 - FAIRFAX

LENGTH OF NEW ASPHALTIC PLUG JOINTS:
JOINT #1 = 37'
JOINT #2 = 37'
TOTAL = 74'

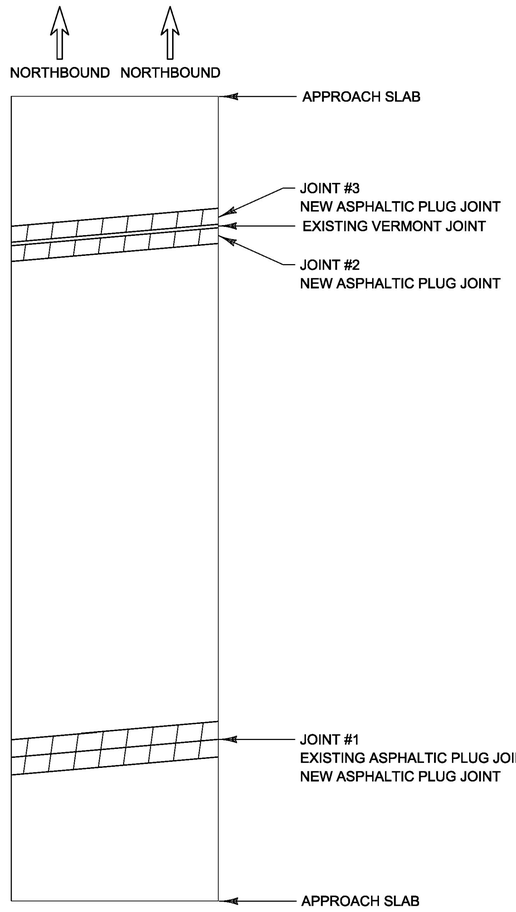
PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: p16v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
BRIDGE DETAIL SHEET 7	SHEET 20 OF 54



BRIDGE #88-S

MM 113.747 - ST. ALBANS

LENGTH OF NEW ASPHALTIC PLUG JOINTS:
JOINT #1 = 37'
JOINT #2 = 37'
JOINT #3 = 37'
TOTAL = 111'



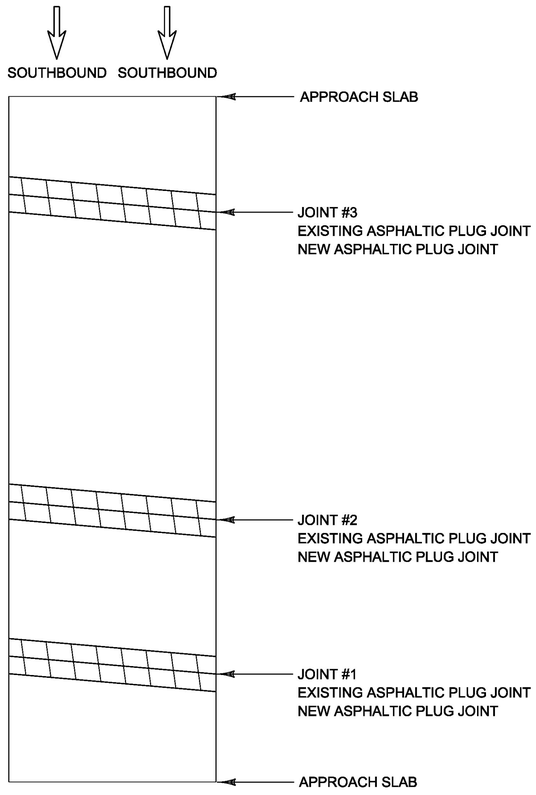
BRIDGE #88-N

MM 113.747 - ST. ALBANS

LENGTH OF NEW ASPHALTIC PLUG JOINTS:
JOINT #1 = 43'
JOINT #2 = 43'
JOINT #3 = 43'
TOTAL = 129'

BRIDGE #88-N
MM 113.747

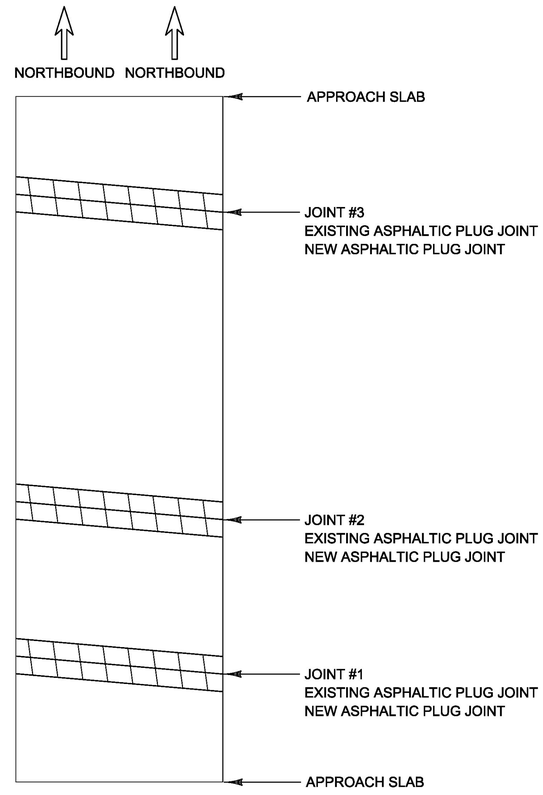
PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: p16v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
BRIDGE DETAIL SHEET 8	SHEET 21 OF 54



BRIDGE #92-S

MM 116.772 - ST. ALBANS

LENGTH OF NEW ASPHALTIC PLUG JOINTS:
JOINT #1 = 39'
JOINT #2 = 39'
JOINT #3 = 39'
TOTAL = 117'



BRIDGE #92-N

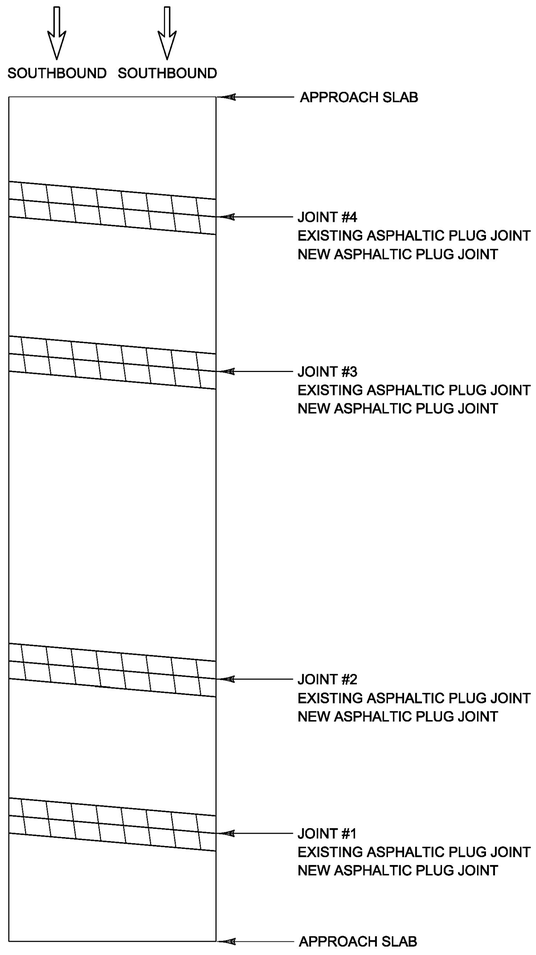
MM 116.772 - ST. ALBANS

LENGTH OF NEW ASPHALTIC PLUG JOINTS:
JOINT #1 = 38'
JOINT #2 = 38'
JOINT #3 = 38'
TOTAL = 114'

PROJECT NAME: COLCHESTER-SWANTON
PROJECT NUMBER: IM SURF(56)

FILE NAME: pl6v07l_wrk.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: B. KIPP
BRIDGE DETAIL SHEET 9

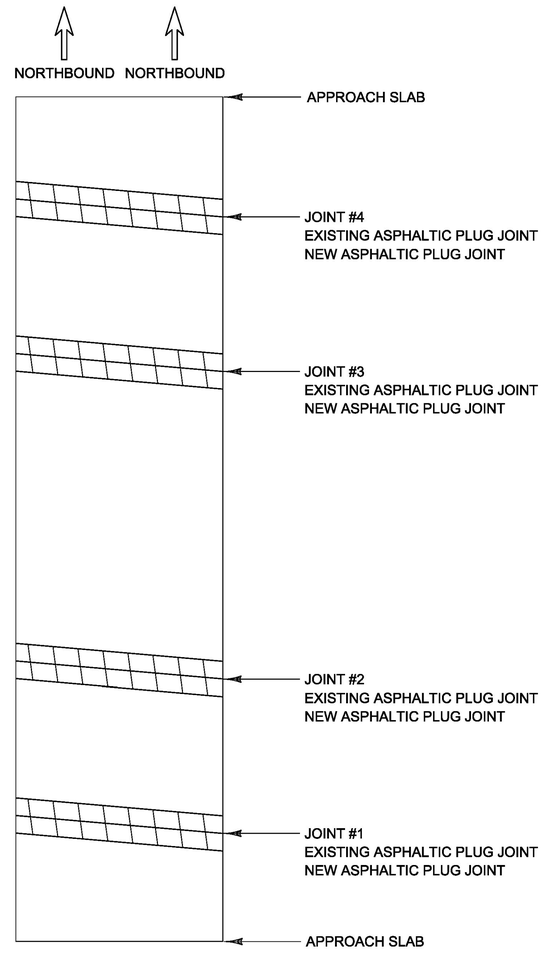
PLOT DATE: 09-DEC-2016
DRAWN BY: B. KIPP
CHECKED BY: M. FOWLER
SHEET 22 OF 54



BRIDGE #93-S

MM 117.633 - ST. ALBANS

LENGTH OF NEW ASPHALTIC PLUG JOINTS:
JOINT #1 = 37'
JOINT #2 = 37'
JOINT #3 = 37'
JOINT #4 = 37'
TOTAL = 148'



BRIDGE #93-N

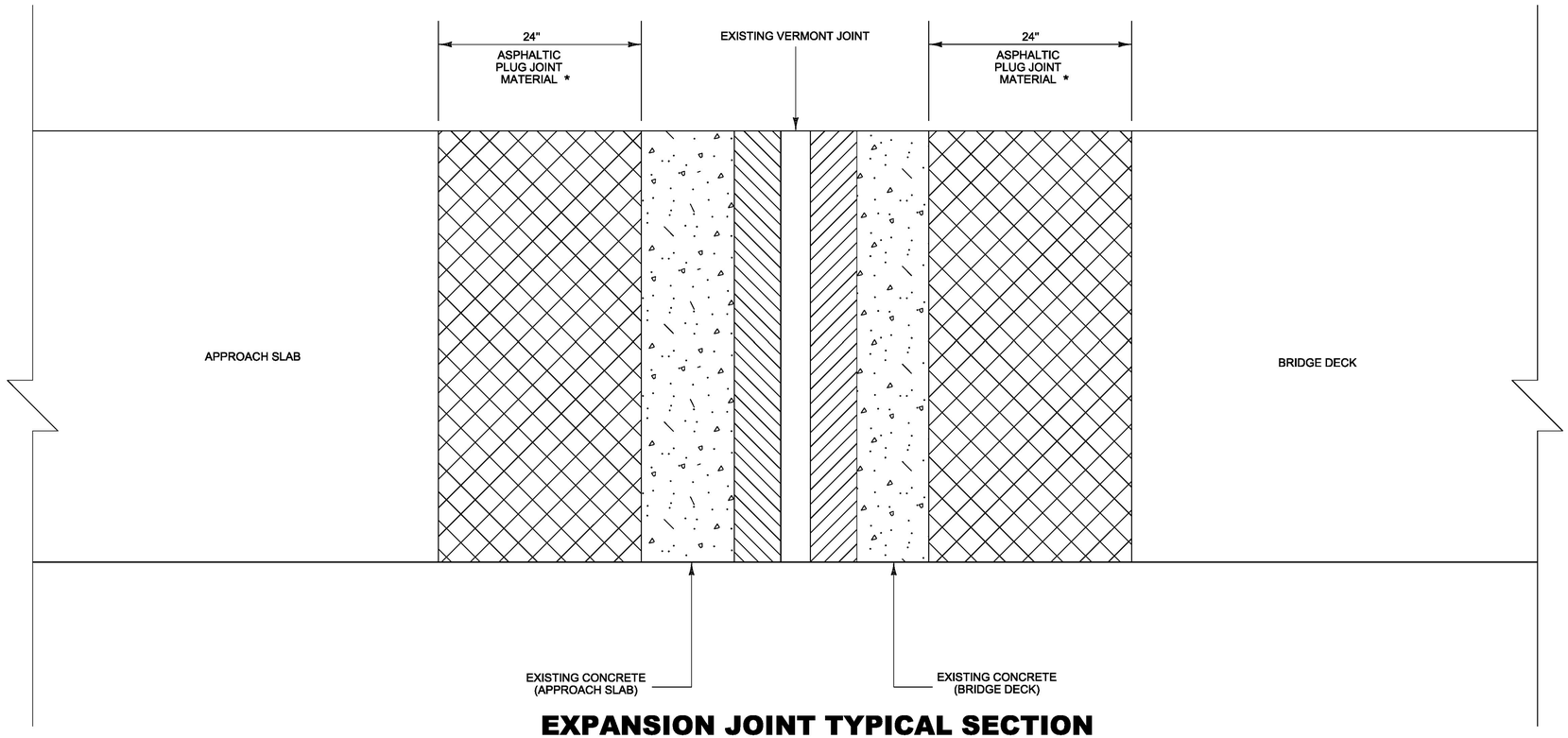
MM 117.633 - ST. ALBANS

LENGTH OF NEW ASPHALTIC PLUG JOINTS:
JOINT #1 = 37'
JOINT #2 = 37'
JOINT #3 = 37'
JOINT #4 = 37'
TOTAL = 148'

PROJECT NAME: COLCHESTER-SWANTON
PROJECT NUMBER: IM SURF(56)

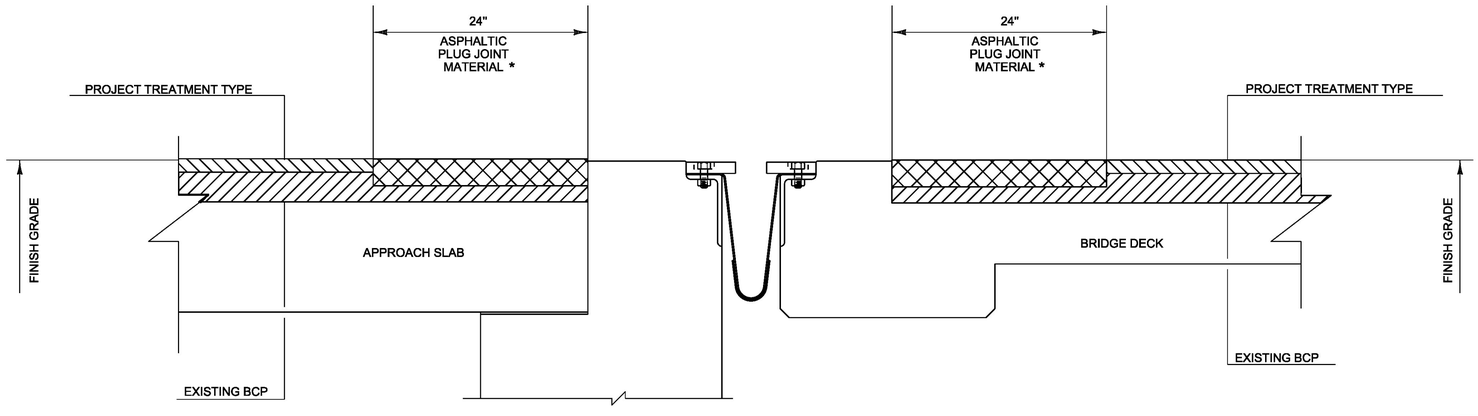
FILE NAME: pl6v07l_wrk.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: B. KIPP
BRIDGE DETAIL SHEET 10

PLOT DATE: 09-DEC-2016
DRAWN BY: B. KIPP
CHECKED BY: M. FOWLER
SHEET 23 OF 54



EXPANSION JOINT TYPICAL SECTION
PLAN VIEW
(VERMONT JOINT)

NOT TO SCALE



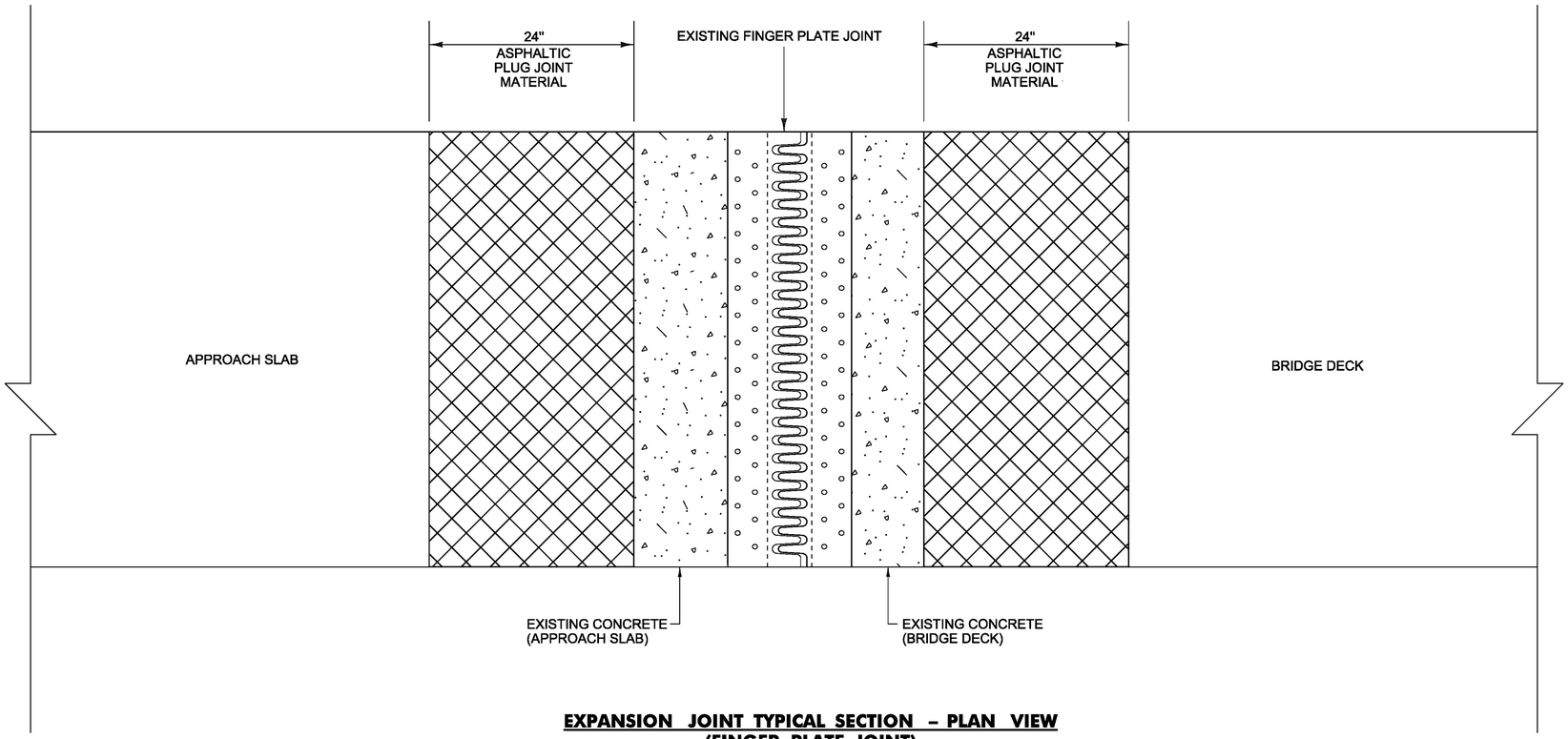
* 2" MINIMUM THICKNESS UNLESS OTHERWISE DIRECTED BY THE ENGINEER

EXPANSION JOINT TYPICAL SECTION
CROSS SECTION
(VERMONT JOINT)

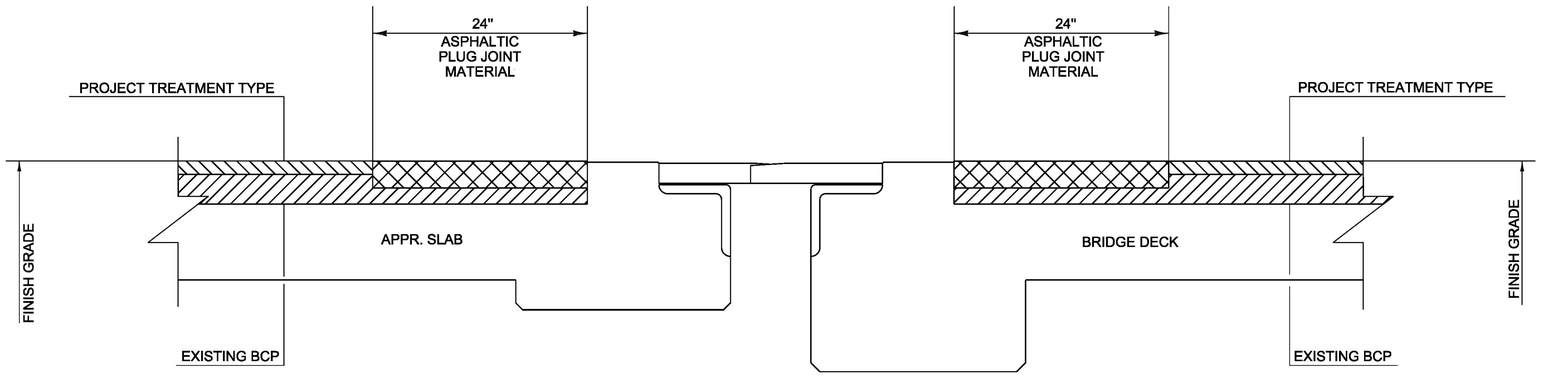
NOT TO SCALE

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)

FILE NAME: p16v071_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
VT JOINT ASPHALTIC PLUG DETAIL SHEET	SHEET 24 OF 54



EXPANSION JOINT TYPICAL SECTION – PLAN VIEW
(FINGER PLATE JOINT)



2" MINIMUM UNLESS OTHERWISE
DIRECTED BY THE ENGINEER

EXPANSION JOINT TYPICAL SECTION – CROSS SECTION
(FINGER PLATE JOINT)
NOT TO SCALE

PROJECT NAME: COLCHESTER-SWANTON
PROJECT NUMBER: IM SURF(56)

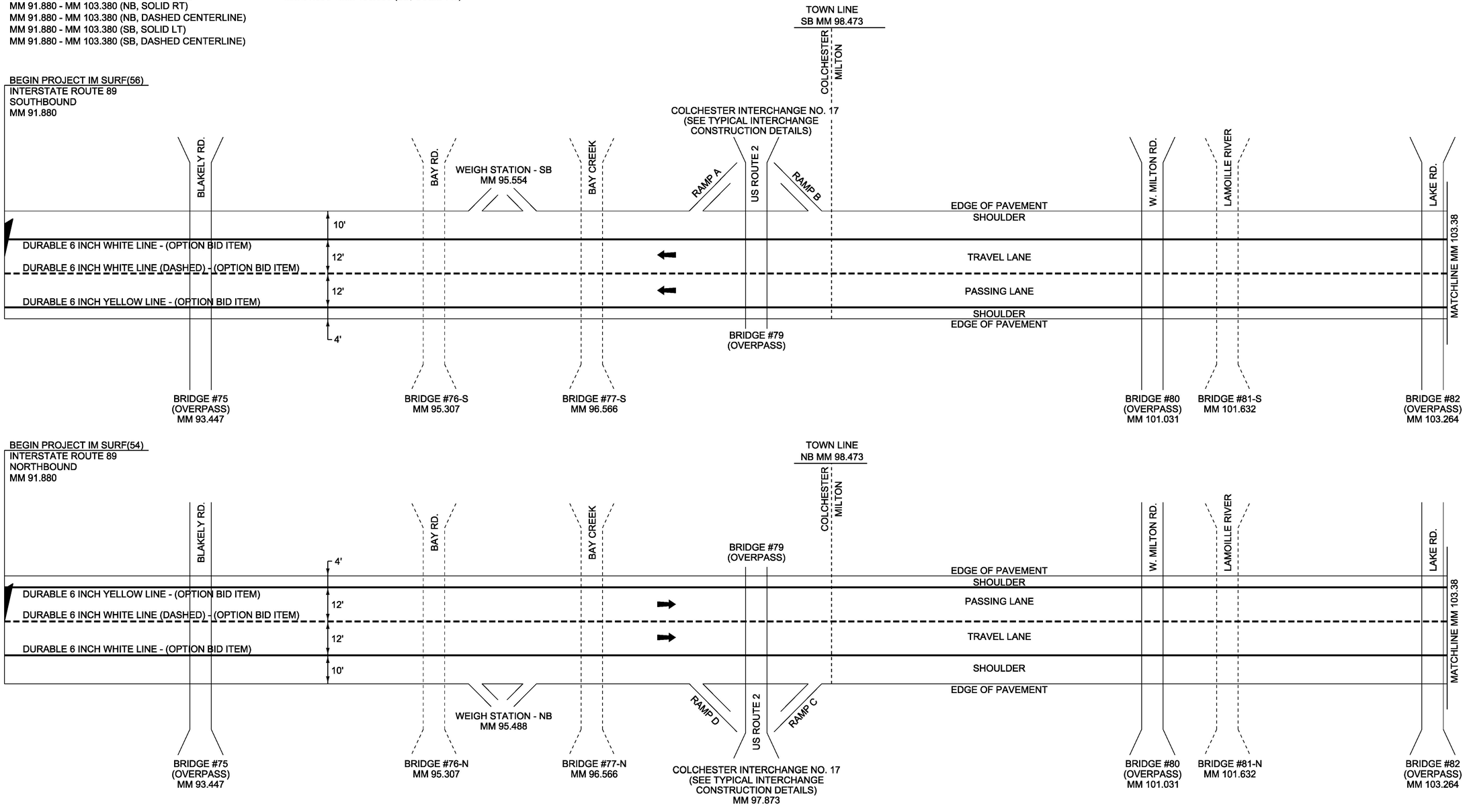
FILE NAME: pl6v07l_wrk.dgn PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP CHECKED BY: M. FOWLER
FINGER JOINT ASPHALTIC PLUG DETAIL SHEET SHEET 25 OF 54

DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
MM 91.880 - MM 103.380 (NB, SOLID RT)
MM 91.880 - MM 103.380 (NB, DASHED CENTERLINE)
MM 91.880 - MM 103.380 (SB, SOLID LT)
MM 91.880 - MM 103.380 (SB, DASHED CENTERLINE)

TEMPORARY 6 INCH WHITE LINE, PAINT
MM 91.880 - MM 103.380 (NB, SOLID RT)
MM 91.880 - MM 103.380 (NB, DASHED CENTERLINE)
MM 91.880 - MM 103.380 (SB, SOLID LT)
MM 91.880 - MM 103.380 (SB, DASHED CENTERLINE)

DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
MM 91.880 - MM 103.380 (NB, SOLID LT)
MM 91.880 - MM 103.380 (SB, SOLID RT)

TEMPORARY 6 INCH YELLOW LINE, PAINT
MM 91.880 - MM 103.380 (NB, SOLID LT)
MM 91.880 - MM 103.380 (SB, SOLID RT)



*NOTE: ESTIMATED QUANTITY OF LINE STRIPING TARGETS IS FOR FOR THE DASHED WHITE CENTERLINE LINES ONLY. LINE STRIPING TARGETS WILL BE APPLIED TO THE EDGE LINES OF EACH INTERCHANGE.

NOT TO SCALE

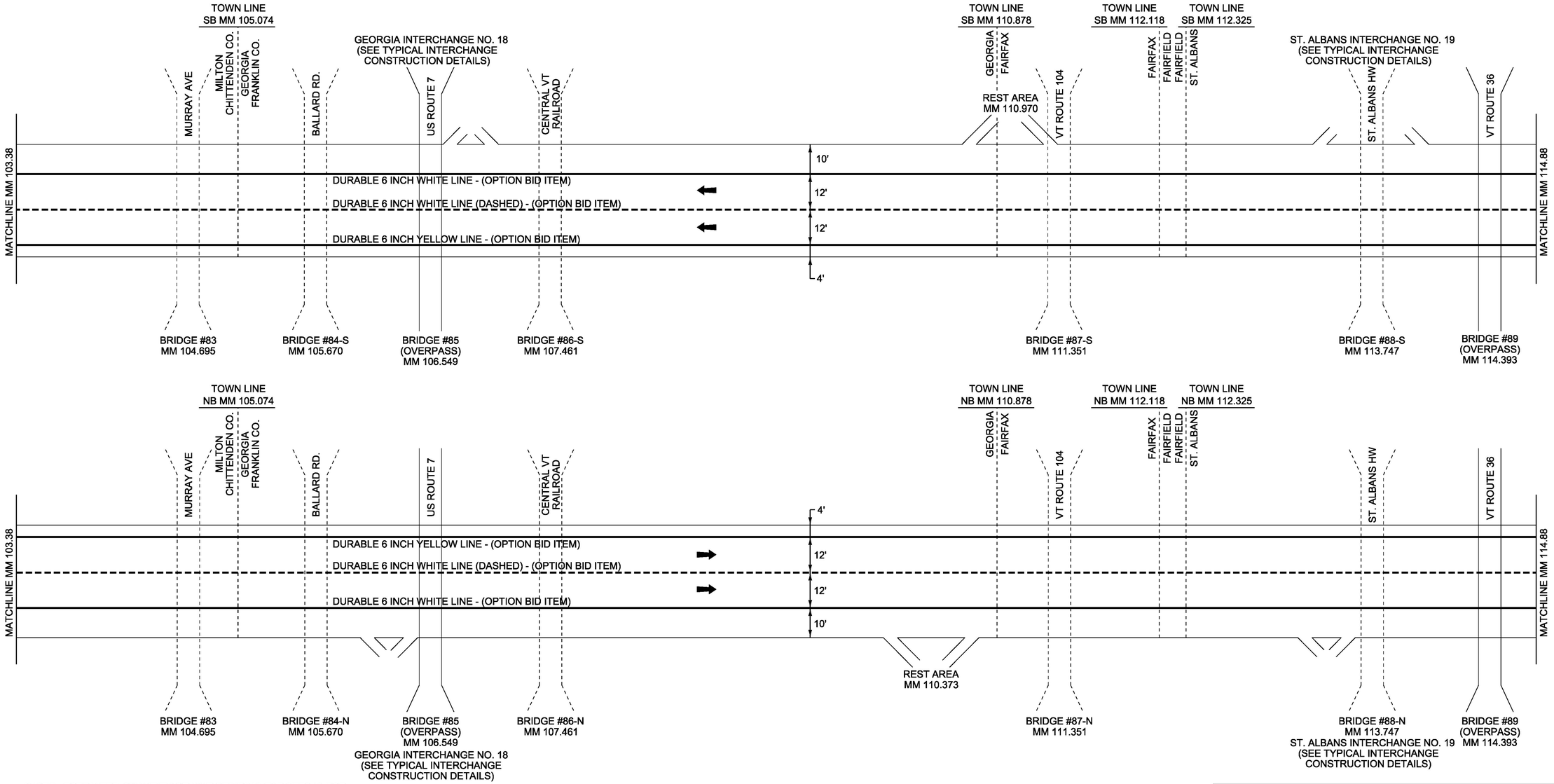
PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: pl6v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
PLAN SHEET I	SHEET 26 OF 54

DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
MM 103.380 - MM 114.880 (NB, SOLID RT)
MM 103.380 - MM 114.880 (NB, DASHED CENTERLINE)
MM 103.380 - MM 114.880 (SB, SOLID LT)
MM 103.380 - MM 114.880 (SB, DASHED CENTERLINE)

TEMPORARY 6 INCH WHITE LINE, PAINT
MM 103.380 - MM 114.880 (NB, SOLID RT)
MM 103.380 - MM 114.880 (NB, DASHED CENTERLINE)
MM 103.380 - MM 114.880 (SB, SOLID LT)
MM 103.380 - MM 114.880 (SB, DASHED CENTERLINE)

DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
MM 103.380 - MM 114.880 (NB, SOLID LT)
MM 103.380 - MM 114.880 (SB, SOLID RT)

TEMPORARY 6 INCH YELLOW LINE, PAINT
MM 103.380 - MM 114.880 (NB, SOLID LT)
MM 103.380 - MM 114.880 (SB, SOLID RT)



*NOTE: ESTIMATED QUANTITY OF LINE STRIPING TARGETS IS FOR FOR THE DASHED WHITE CENTERLINE LINES ONLY. LINE STRIPING TARGETS WILL BE APPLIED TO THE EDGE LINES OF EACH INTERCHANGE.

NOT TO SCALE

PROJECT NAME: COLCHESTER-SWANTON
PROJECT NUMBER: IM SURF(56)

FILE NAME: pl6v07l_wrk.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: B. KIPP
PLAN SHEET 2

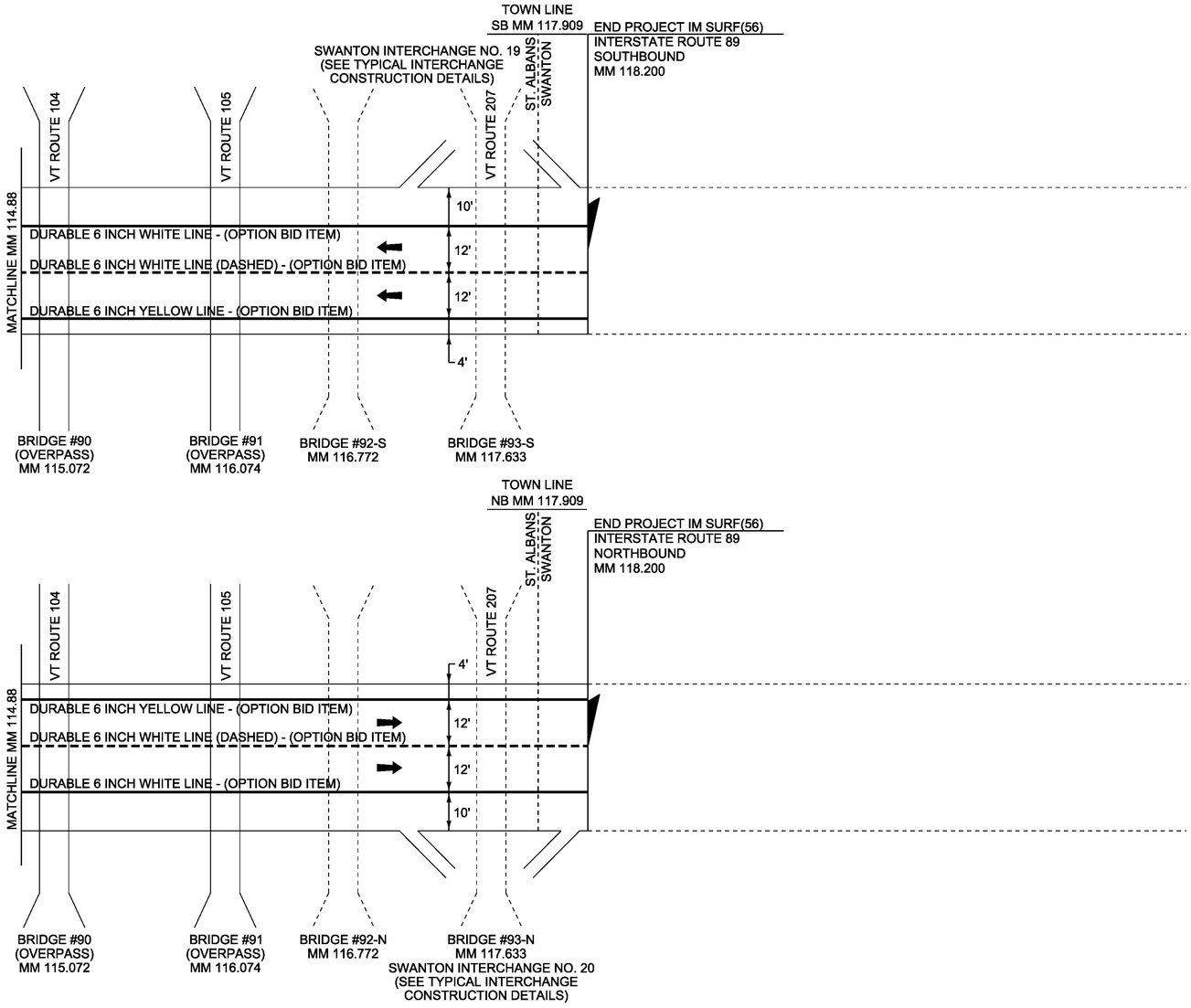
PLOT DATE: 09-DEC-2016
DRAWN BY: B. KIPP
CHECKED BY: M. FOWLER
SHEET 27 OF 54

DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)
MM 114.880 - MM 118.200 (NB, SOLID RT)
MM 114.880 - MM 118.200 (NB, DASHED CENTERLINE)
MM 114.880 - MM 118.200 (SB, SOLID LT)
MM 114.880 - MM 118.200 (SB, DASHED CENTERLINE)

TEMPORARY 6 INCH WHITE LINE, PAINT
MM 114.880 - MM 118.200 (NB, SOLID RT)
MM 114.880 - MM 118.200 (NB, DASHED CENTERLINE)
MM 114.880 - MM 118.200 (SB, SOLID LT)
MM 114.880 - MM 118.200 (SB, DASHED CENTERLINE)

DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)
MM 114.880 - MM 118.200 (NB, SOLID LT)
MM 114.880 - MM 118.200 (SB, SOLID RT)

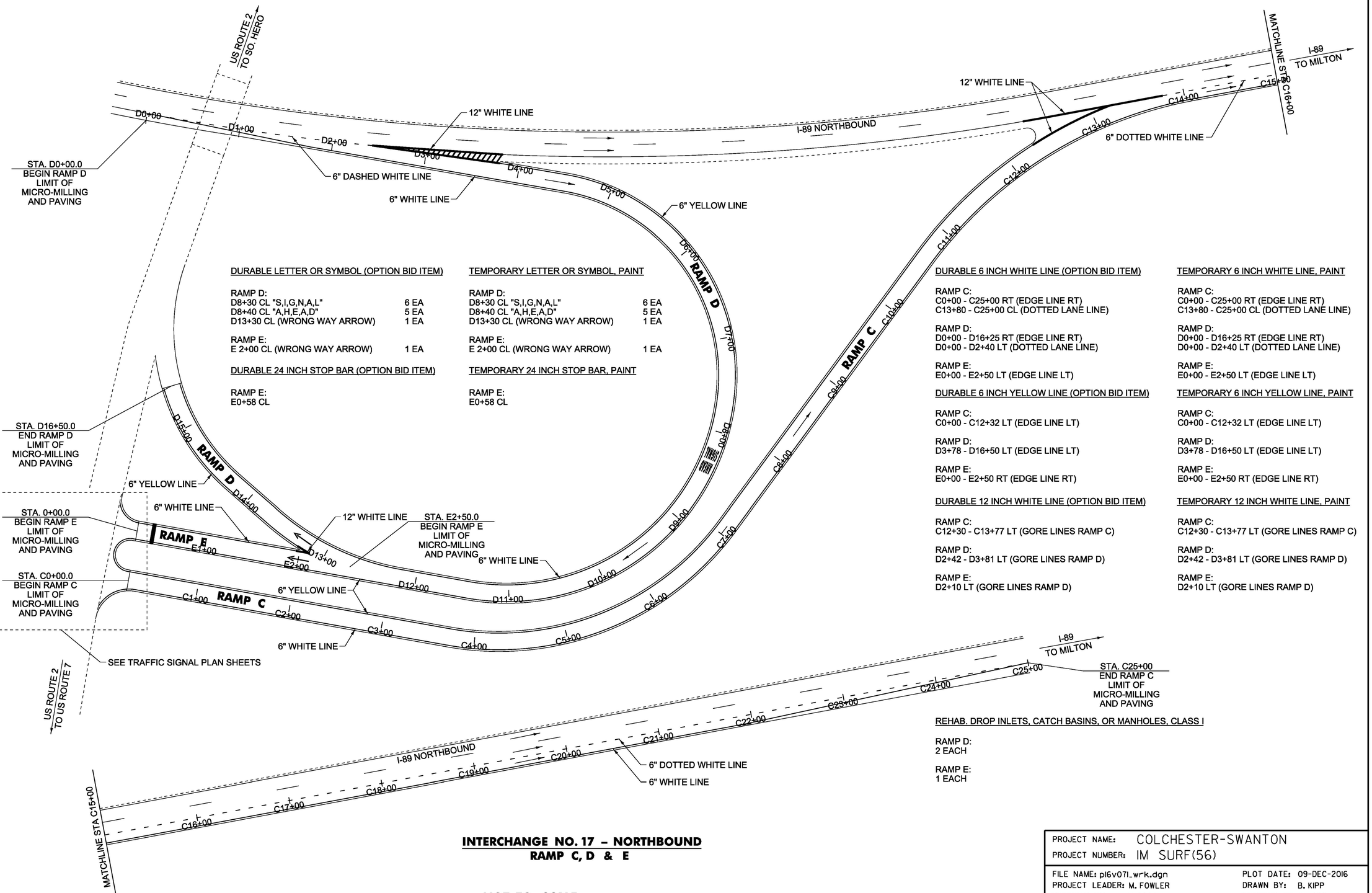
TEMPORARY 6 INCH YELLOW LINE, PAINT
MM 114.880 - MM 118.200 (NB, SOLID LT)
MM 114.880 - MM 118.200 (SB, SOLID RT)



*NOTE: ESTIMATED QUANTITY OF LINE STRIPING TARGETS IS FOR FOR THE DASHED WHITE CENTERLINE LINES ONLY. LINE STRIPING TARGETS WILL BE APPLIED TO THE EDGE LINES OF EACH INTERCHANGE.

NOT TO SCALE

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: pl6v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
PLAN SHEET 3	SHEET 28 OF 54



DURABLE LETTER OR SYMBOL (OPTION BID ITEM)

RAMP D:	
D8+30 CL "S,I,G,N,A,L"	6 EA
D8+40 CL "A,H,E,A,D"	5 EA
D13+30 CL (WRONG WAY ARROW)	1 EA
RAMP E:	
E 2+00 CL (WRONG WAY ARROW)	1 EA

DURABLE 24 INCH STOP BAR (OPTION BID ITEM)

RAMP E:
E0+58 CL

TEMPORARY LETTER OR SYMBOL, PAINT

RAMP D:	
D8+30 CL "S,I,G,N,A,L"	6 EA
D8+40 CL "A,H,E,A,D"	5 EA
D13+30 CL (WRONG WAY ARROW)	1 EA
RAMP E:	
E 2+00 CL (WRONG WAY ARROW)	1 EA

TEMPORARY 24 INCH STOP BAR, PAINT

RAMP E:
E0+58 CL

DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)

RAMP C:
C0+00 - C25+00 RT (EDGE LINE RT)
C13+80 - C25+00 CL (DOTTED LANE LINE)

RAMP D:
D0+00 - D16+25 RT (EDGE LINE RT)
D0+00 - D2+40 LT (DOTTED LANE LINE)

RAMP E:
E0+00 - E2+50 LT (EDGE LINE LT)

DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)

RAMP C:
C0+00 - C12+32 LT (EDGE LINE LT)

RAMP D:
D3+78 - D16+50 LT (EDGE LINE LT)

RAMP E:
E0+00 - E2+50 RT (EDGE LINE RT)

DURABLE 12 INCH WHITE LINE (OPTION BID ITEM)

RAMP C:
C12+30 - C13+77 LT (GORE LINES RAMP C)

RAMP D:
D2+42 - D3+81 LT (GORE LINES RAMP D)

RAMP E:
D2+10 LT (GORE LINES RAMP D)

TEMPORARY 6 INCH WHITE LINE, PAINT

RAMP C:
C0+00 - C25+00 RT (EDGE LINE RT)
C13+80 - C25+00 CL (DOTTED LANE LINE)

RAMP D:
D0+00 - D16+25 RT (EDGE LINE RT)
D0+00 - D2+40 LT (DOTTED LANE LINE)

RAMP E:
E0+00 - E2+50 LT (EDGE LINE LT)

TEMPORARY 6 INCH YELLOW LINE, PAINT

RAMP C:
C0+00 - C12+32 LT (EDGE LINE LT)

RAMP D:
D3+78 - D16+50 LT (EDGE LINE LT)

RAMP E:
E0+00 - E2+50 RT (EDGE LINE RT)

TEMPORARY 12 INCH WHITE LINE, PAINT

RAMP C:
C12+30 - C13+77 LT (GORE LINES RAMP C)

RAMP D:
D2+42 - D3+81 LT (GORE LINES RAMP D)

RAMP E:
D2+10 LT (GORE LINES RAMP D)

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

RAMP D:
2 EACH

RAMP E:
1 EACH

INTERCHANGE NO. 17 – NORTHBOUND
RAMP C, D & E

NOT TO SCALE

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: pl6v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
PLAN SHEET 4	SHEET 29 OF 54

DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)

RAMP A:
A1+85 - A18+30 LT (EDGE LINE LT)
A10+90 - A18+30 RT (DOTTED LANE LINE)

RAMP F:
F6+30 - F11+70 LT (EDGE LINE LT)

TEMPORARY 6 INCH WHITE LINE, PAINT

RAMP A:
A1+85 - A18+30 LT (EDGE LINE LT)
A10+90 - A18+30 RT (DOTTED LANE LINE)

RAMP F:
F6+30 - F11+70 LT (EDGE LINE LT)

DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)

RAMP A:
A1+85 - A10+14 RT (EDGE LINE RT)

RAMP F:
F6+30 - F11+00 RT (EDGE LINE RT)

TEMPORARY 6 INCH YELLOW LINE, PAINT

RAMP A:
A1+85 - A10+14 RT (EDGE LINE RT)

RAMP F:
F6+30 - F11+00 RT (EDGE LINE RT)

DURABLE 12 INCH WHITE LINE (OPTION BID ITEM)

RAMP A:
A3+90 LT (GORE LINES RAMP A)
A10+14 - 11+78 RT (GORE LINES RAMP A)

TEMPORARY 12 INCH WHITE LINE, PAINT

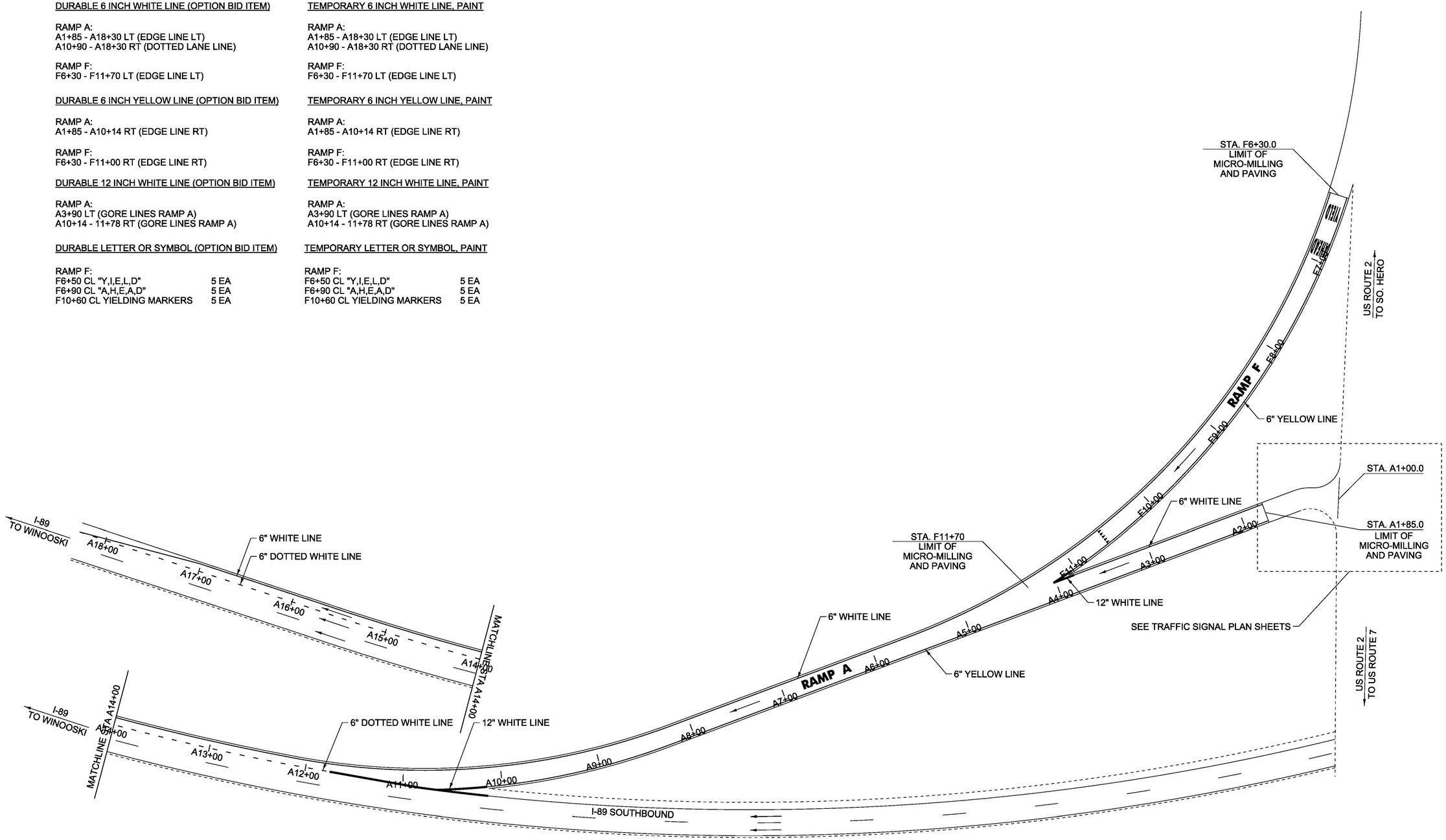
RAMP A:
A3+90 LT (GORE LINES RAMP A)
A10+14 - 11+78 RT (GORE LINES RAMP A)

DURABLE LETTER OR SYMBOL (OPTION BID ITEM)

RAMP F:	
F6+50 CL "Y,I,E,L,D"	5 EA
F6+90 CL "A,H,E,A,D"	5 EA
F10+60 CL YIELDING MARKERS	5 EA

TEMPORARY LETTER OR SYMBOL, PAINT

RAMP F:	
F6+50 CL "Y,I,E,L,D"	5 EA
F6+90 CL "A,H,E,A,D"	5 EA
F10+60 CL YIELDING MARKERS	5 EA



INTERCHANGE NO. 17 – SOUTHBOUND
RAMP A & F

NOT TO SCALE

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: pl6v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
PLAN SHEET 5	SHEET 30 OF 54

DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)

RAMP B:
B0+00 - B12+00 LT (EDGE LINE LT)
B7+00 - A12+00 LT (DOTTED LANE LINE)

TEMPORARY 6 INCH WHITE LINE, PAINT

RAMP B:
B0+00 - B12+00 LT (EDGE LINE LT)
B7+00 - A12+00 LT (DOTTED LANE LINE)

DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)

RAMP B:
B0+40 - B5+00 RT (EDGE LINE RT)

TEMPORARY 6 INCH YELLOW LINE, PAINT

RAMP B:
B0+40 - B5+00 RT (EDGE LINE RT)

DURABLE 12 INCH WHITE LINE (OPTION BID ITEM)

RAMP B:
B5+00 - B7+00 RT (GORE LINES RAMP B)

TEMPORARY 12 INCH WHITE LINE, PAINT

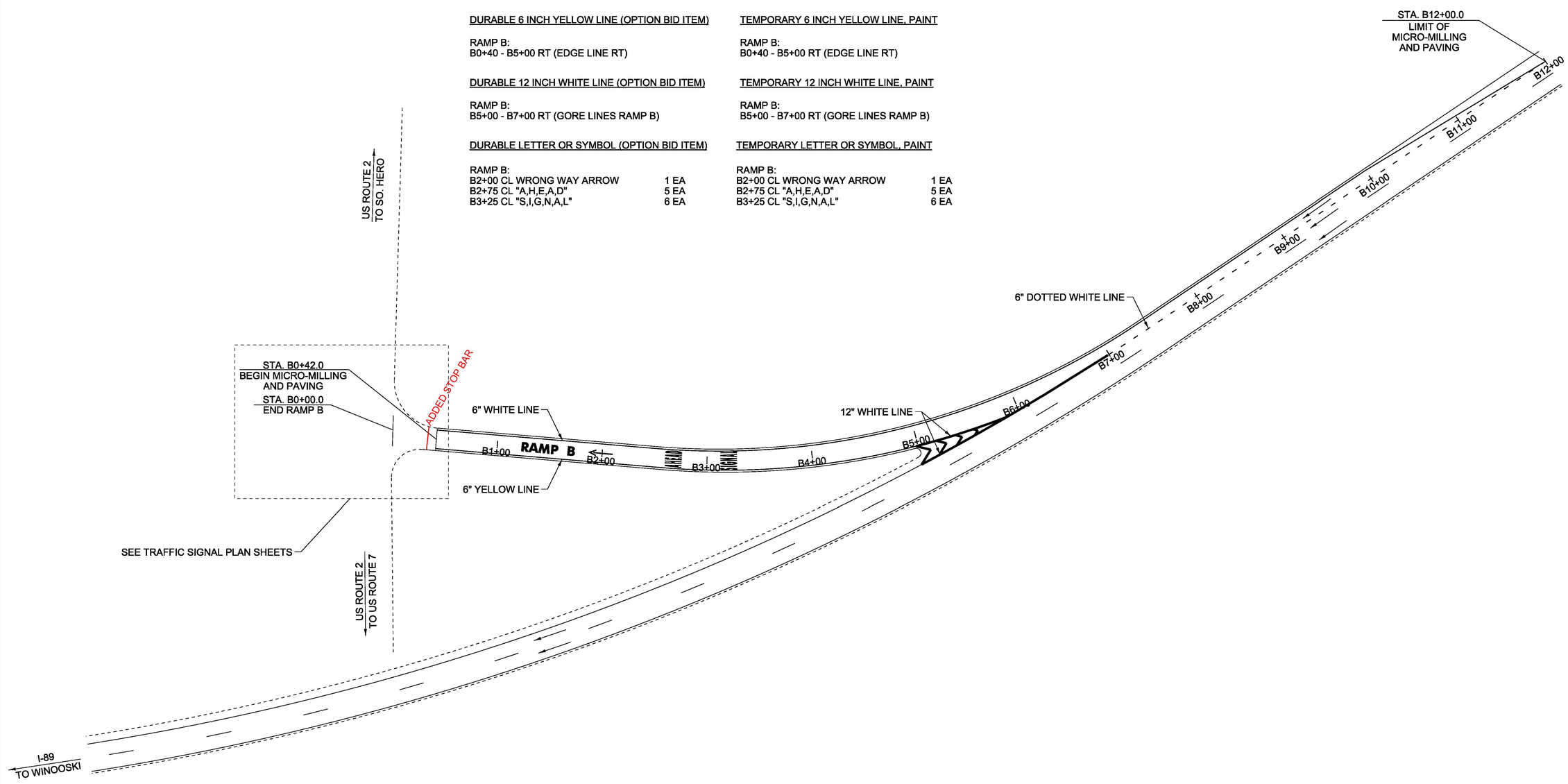
RAMP B:
B5+00 - B7+00 RT (GORE LINES RAMP B)

DURABLE LETTER OR SYMBOL (OPTION BID ITEM)

RAMP B:	
B2+00 CL WRONG WAY ARROW	1 EA
B2+75 CL "A,H,E,A,D"	5 EA
B3+25 CL "S,I,G,N,A,L"	6 EA

TEMPORARY LETTER OR SYMBOL, PAINT

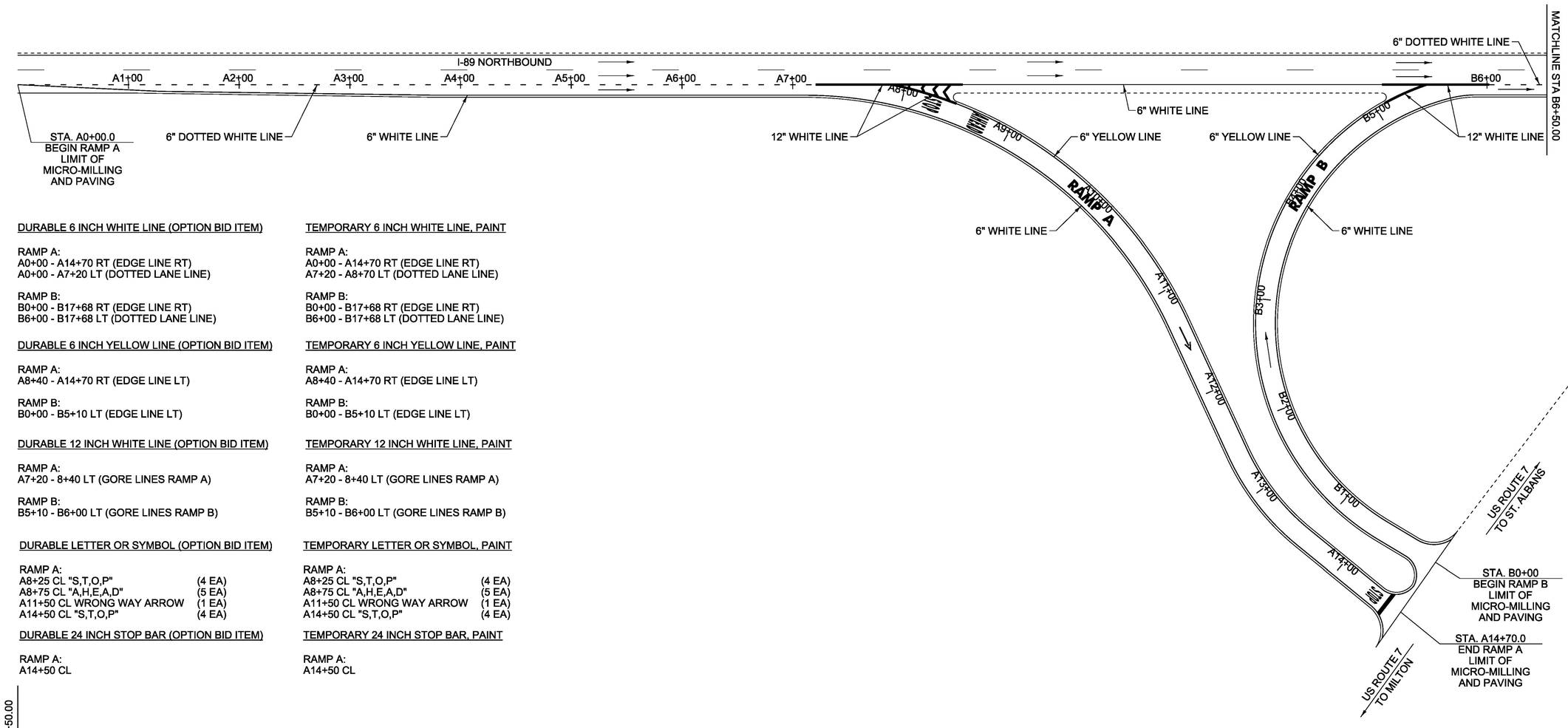
RAMP B:	
B2+00 CL WRONG WAY ARROW	1 EA
B2+75 CL "A,H,E,A,D"	5 EA
B3+25 CL "S,I,G,N,A,L"	6 EA



INTERCHANGE NO. 17 – SOUTHBOUND
RAMP B

NOT TO SCALE

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: p16v071_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: PVT. MGT.
PLAN SHEET 6	SHEET 31 OF 54



DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)

RAMP A:
A0+00 - A14+70 RT (EDGE LINE RT)
A0+00 - A7+20 LT (DOTTED LANE LINE)

RAMP B:
B0+00 - B17+68 RT (EDGE LINE RT)
B6+00 - B17+68 LT (DOTTED LANE LINE)

TEMPORARY 6 INCH WHITE LINE, PAINT

RAMP A:
A0+00 - A14+70 RT (EDGE LINE RT)
A7+20 - A8+70 LT (DOTTED LANE LINE)

RAMP B:
B0+00 - B17+68 RT (EDGE LINE RT)
B6+00 - B17+68 LT (DOTTED LANE LINE)

DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)

RAMP A:
A8+40 - A14+70 RT (EDGE LINE LT)

RAMP B:
B0+00 - B5+10 LT (EDGE LINE LT)

TEMPORARY 6 INCH YELLOW LINE, PAINT

RAMP A:
A8+40 - A14+70 RT (EDGE LINE LT)

RAMP B:
B0+00 - B5+10 LT (EDGE LINE LT)

DURABLE 12 INCH WHITE LINE (OPTION BID ITEM)

RAMP A:
A7+20 - 8+40 LT (GORE LINES RAMP A)

RAMP B:
B5+10 - B6+00 LT (GORE LINES RAMP B)

TEMPORARY 12 INCH WHITE LINE, PAINT

RAMP A:
A7+20 - 8+40 LT (GORE LINES RAMP A)

RAMP B:
B5+10 - B6+00 LT (GORE LINES RAMP B)

DURABLE LETTER OR SYMBOL (OPTION BID ITEM)

RAMP A:

A8+25 CL "S,T,O,P"	(4 EA)
A8+75 CL "A,H,E,A,D"	(5 EA)
A11+50 CL WRONG WAY ARROW	(1 EA)
A14+50 CL "S,T,O,P"	(4 EA)

TEMPORARY LETTER OR SYMBOL, PAINT

RAMP A:

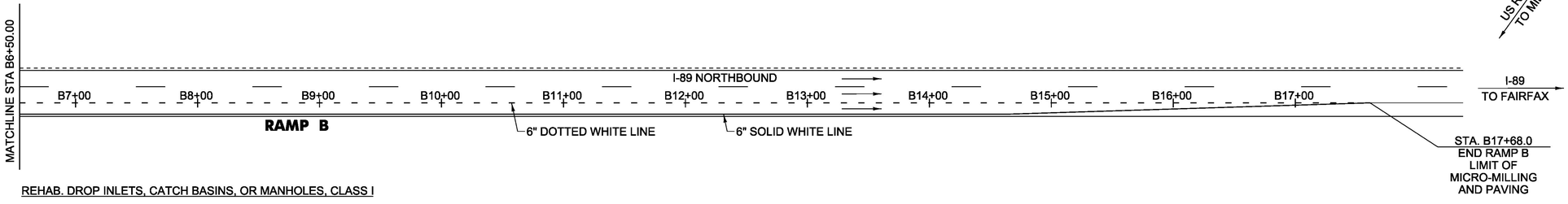
A8+25 CL "S,T,O,P"	(4 EA)
A8+75 CL "A,H,E,A,D"	(5 EA)
A11+50 CL WRONG WAY ARROW	(1 EA)
A14+50 CL "S,T,O,P"	(4 EA)

DURABLE 24 INCH STOP BAR (OPTION BID ITEM)

RAMP A:
A14+50 CL

TEMPORARY 24 INCH STOP BAR, PAINT

RAMP A:
A14+50 CL



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

RAMP B:
1 EACH

INTERCHANGE NO. 18 – NORTHBOUND
RAMP A & B

NOT TO SCALE

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: pl6v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
PLAN SHEET 7	SHEET 32 OF 54

DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)

RAMP C:
C0+00 - C15+00 LT (EDGE LINE LT)
C10+40 - C15+00 CL (DOTTED LANE LINE)

RAMP D:
D0+00 - A20+50 LT (EDGE LINE LT)
D0+00 - D11+50 CL (DOTTED LANE LINE)

DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)

RAMP C:
C0+00 - C9+50 LT (EDGE LINE RT)

RAMP D:
D12+50 - C20+50 LT (EDGE LINE RT)

DURABLE 12 INCH WHITE LINE (OPTION BID ITEM)

RAMP C:
C9+50 - C10+50 LT (GORE LINES RAMP C)

RAMP D:
D11+50 - D12+50 LT (GORE LINES RAMP D)

DURABLE LETTER OR SYMBOL (OPTION BID ITEM)

RAMP C:	
C0+50 CL "S,T,O,P"	(4 EA)
C2+84 CL WRONG WAY ARROW	(1 EA)
C5+40 CL "S,T,O,P"	(4 EA)
C5+80 CL "A,H,E,A,D"	(5 EA)
RAMP D:	
D16+50 CL WRONG WAY ARROW	(1 EA)

DURABLE 24 INCH STOP BAR (OPTION BID ITEM)

RAMP C:
C0+20 CL

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

RAMP C:
2 EACH

TEMPORARY 6 INCH WHITE LINE, PAINT

RAMP C:
C0+00 - C15+00 LT (EDGE LINE LT)
C10+40 - C15+00 CL (DOTTED LANE LINE)

RAMP D:
D0+00 - A20+50 LT (EDGE LINE LT)
D0+00 - D11+50 CL (DOTTED LANE LINE)

TEMPORARY 6 INCH YELLOW LINE, PAINT

RAMP C:
C0+00 - C9+50 LT (EDGE LINE RT)

RAMP D:
D12+50 - C20+50 LT (EDGE LINE RT)

TEMPORARY 12 INCH WHITE LINE, PAINT

RAMP C:
C9+50 - C10+50 LT (GORE LINES RAMP C)

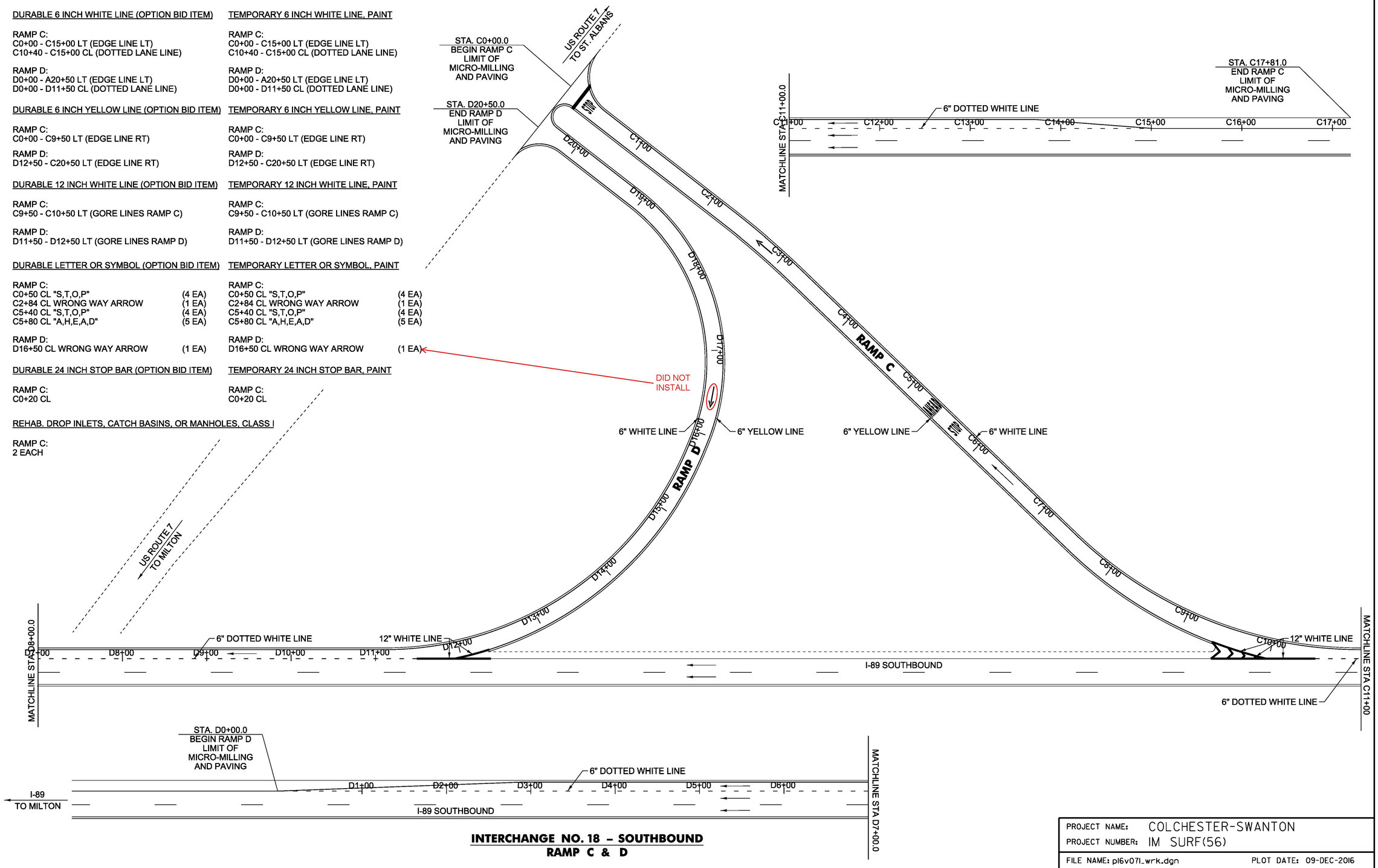
RAMP D:
D11+50 - D12+50 LT (GORE LINES RAMP D)

TEMPORARY LETTER OR SYMBOL, PAINT

RAMP C:	
C0+50 CL "S,T,O,P"	(4 EA)
C2+84 CL WRONG WAY ARROW	(1 EA)
C5+40 CL "S,T,O,P"	(4 EA)
C5+80 CL "A,H,E,A,D"	(5 EA)
RAMP D:	
D16+50 CL WRONG WAY ARROW	(1 EA)

TEMPORARY 24 INCH STOP BAR, PAINT

RAMP C:
C0+20 CL



INTERCHANGE NO. 18 – SOUTHBOUND
RAMP C & D

NOT TO SCALE

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: pl6v071_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
PLAN SHEET 8	SHEET 33 OF 54

DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)

RAMP A:
A0+00 - A31+40 RT (EDGE LINE RT)
A19+20 - A31+40 CL (DOTTED LANE LINE)

RAMP B:
B0+00 - B28+70 RT (EDGE LINE RT)
B0+00 - B5+00 CL (DOTTED LANE LINE)

DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)

RAMP A:
A0+00 - A18+20 LT (EDGE LINE LT)

RAMP B:
B6+55- B28+70 LT (EDGE LINE LT)

TEMPORARY 6 INCH WHITE LINE, PAINT

RAMP A:
A0+00 - A31+40 RT (EDGE LINE RT)
A19+20 - A31+40 CL (DOTTED LANE LINE)

RAMP B:
B0+00 - B28+70 RT (EDGE LINE RT)
B0+00 - B5+00 CL (DOTTED LANE LINE)

TEMPORARY 6 INCH YELLOW LINE, PAINT

RAMP A:
A0+00 - A18+20 LT (EDGE LINE LT)

RAMP B:
B6+55- B28+70 LT (EDGE LINE LT)

DURABLE 12 INCH WHITE LINE (OPTION BID ITEM)

RAMP A:
A18+20 - A19+20 LT (GORE LINES RAMP A)

RAMP B:
B5+00 - A6+55 LT (GORE LINES RAMP A)

DURABLE LETTER OR SYMBOL (OPTION BID ITEM)

RAMP B:
B21+50 CL "S,I,G,N,A,L" (6 EA)
B22+00 CL "A,H,E,A,D" (5 EA)

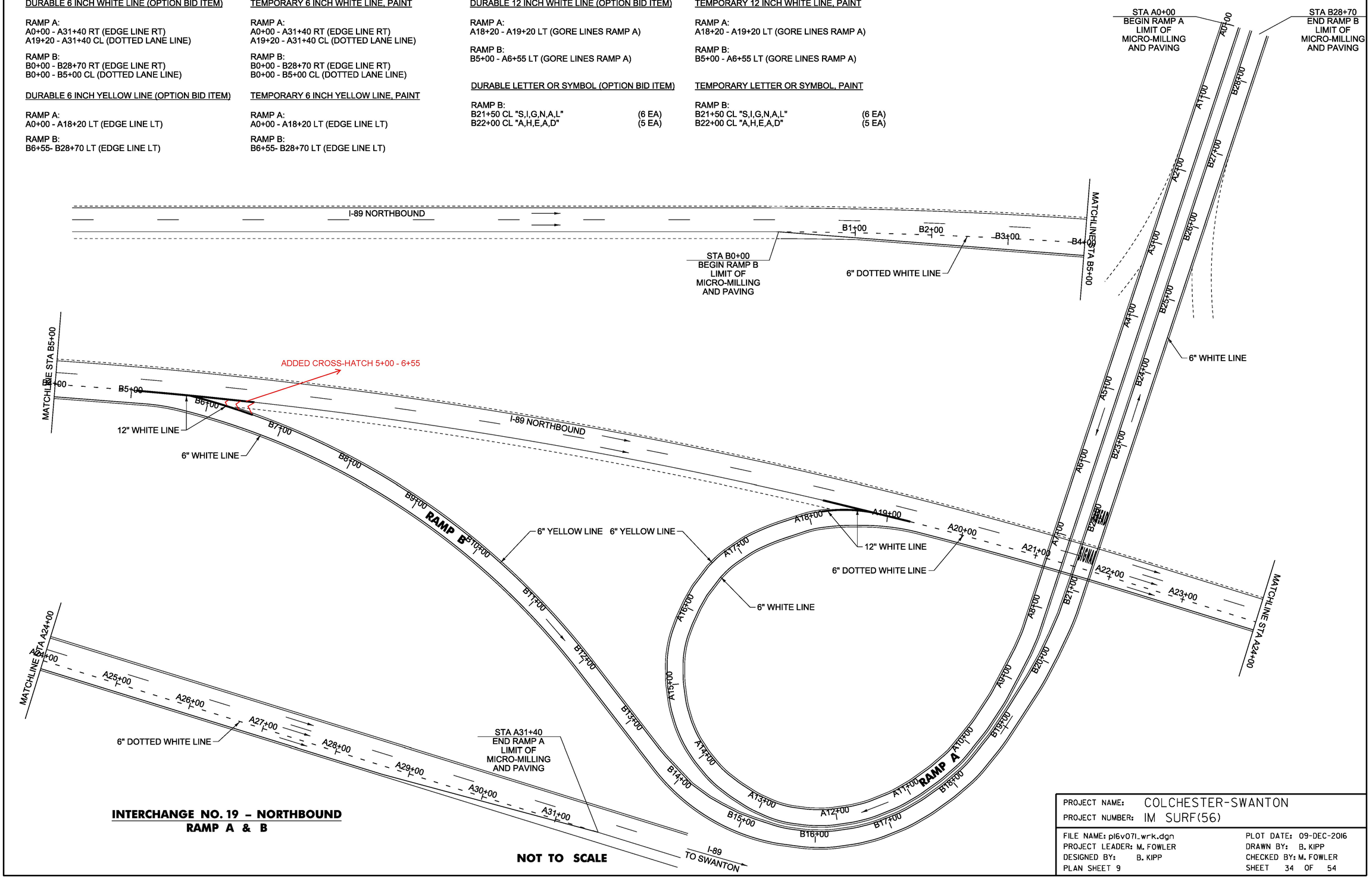
TEMPORARY 12 INCH WHITE LINE, PAINT

RAMP A:
A18+20 - A19+20 LT (GORE LINES RAMP A)

RAMP B:
B5+00 - A6+55 LT (GORE LINES RAMP A)

TEMPORARY LETTER OR SYMBOL, PAINT

RAMP B:
B21+50 CL "S,I,G,N,A,L" (6 EA)
B22+00 CL "A,H,E,A,D" (5 EA)



INTERCHANGE NO. 19 – NORTHBOUND
RAMP A & B

NOT TO SCALE

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: pl6v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
PLAN SHEET 9	SHEET 34 OF 54

DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)

RAMP C:
C0+00 - C23+80 LT (EDGE LINE LT)
C0+00 - C3+50 CL (DOTTED LANE LINE)

TEMPORARY 6 INCH WHITE LINE, PAINT

RAMP C:
C0+00 - C23+80 LT (EDGE LINE LT)
C0+00 - C3+50 CL (DOTTED LANE LINE)

DURABLE 12 INCH WHITE LINE (OPTION BID ITEM)

RAMP C:
C3+50 - C6+90 RT (GORE LINES EXIT C)

TEMPORARY 12 INCH WHITE LINE, PAINT

RAMP C:
C3+50 - C6+90 RT (GORE LINES EXIT C)

DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)

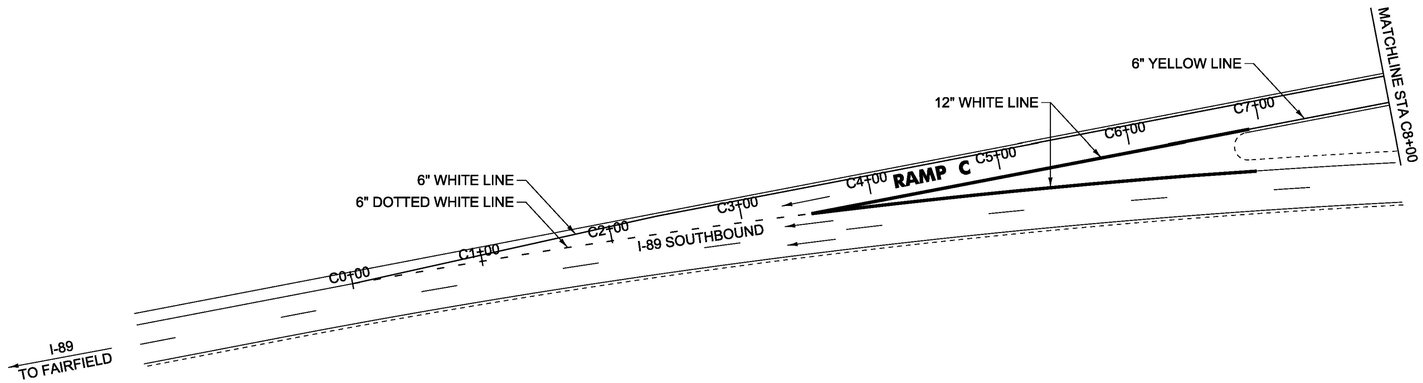
RAMP C:
C6+90 - C22+60 RT (EDGE LINE RT)

TEMPORARY 6 INCH YELLOW LINE, PAINT

RAMP C:
C6+90 - C22+60 RT (EDGE LINE RT)

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

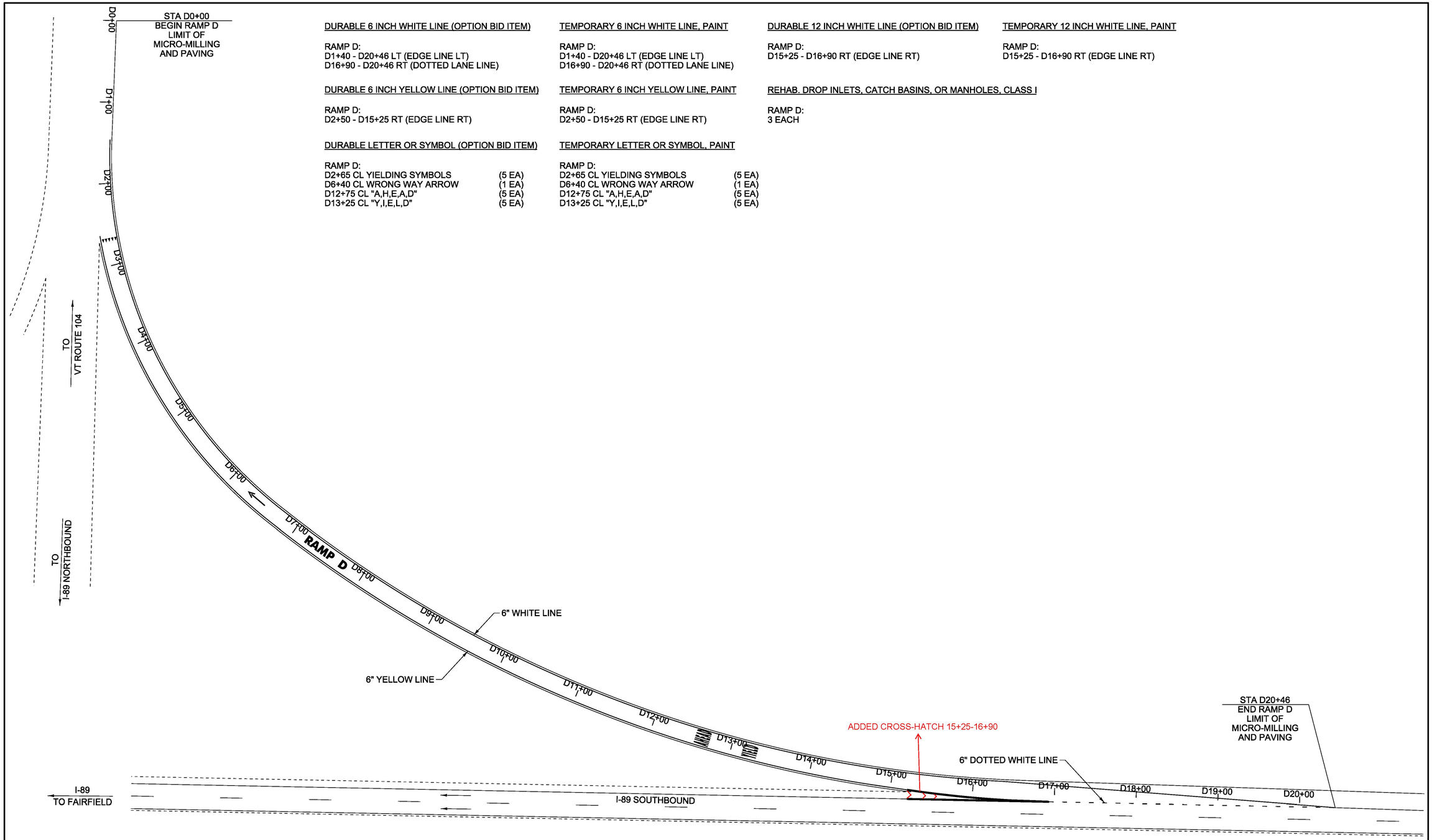
RAMP C:
3 EACH



INTERCHANGE NO. 19 – SOUTHBOUND
RAMP C

NOT TO SCALE

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: pl6v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
PLAN SHEET 10	SHEET 35 OF 54



DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)

RAMP D:
D1+40 - D20+46 LT (EDGE LINE LT)
D16+90 - D20+46 RT (DOTTED LANE LINE)

TEMPORARY 6 INCH WHITE LINE, PAINT

RAMP D:
D1+40 - D20+46 LT (EDGE LINE LT)
D16+90 - D20+46 RT (DOTTED LANE LINE)

DURABLE 12 INCH WHITE LINE (OPTION BID ITEM)

RAMP D:
D15+25 - D16+90 RT (EDGE LINE RT)

TEMPORARY 12 INCH WHITE LINE, PAINT

RAMP D:
D15+25 - D16+90 RT (EDGE LINE RT)

DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)

RAMP D:
D2+50 - D15+25 RT (EDGE LINE RT)

TEMPORARY 6 INCH YELLOW LINE, PAINT

RAMP D:
D2+50 - D15+25 RT (EDGE LINE RT)

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

RAMP D:
3 EACH

DURABLE LETTER OR SYMBOL (OPTION BID ITEM)

RAMP D:

D2+65 CL YIELDING SYMBOLS	(5 EA)
D6+40 CL WRONG WAY ARROW	(1 EA)
D12+75 CL "A,H,E,A,D"	(5 EA)
D13+25 CL "Y,I,E,L,D"	(5 EA)

TEMPORARY LETTER OR SYMBOL, PAINT

RAMP D:

D2+65 CL YIELDING SYMBOLS	(5 EA)
D6+40 CL WRONG WAY ARROW	(1 EA)
D12+75 CL "A,H,E,A,D"	(5 EA)
D13+25 CL "Y,I,E,L,D"	(5 EA)

INTERCHANGE NO. 19 – SOUTHBOUND
RAMP D

NOT TO SCALE

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: pl6v071_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
PLAN SHEET II	SHEET 36 OF 54

DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)

RAMP D:
D0+00 - D14+25 RT (EDGE LINE RT)
D1+00 - D4+60 CL (DOTTED LANE LINE)
D10+90 - D11+90 RT (DOTTED LANE LINE)
D11+90 - D14+25 CL (SOLID LANE LINE)

RAMP B:
B0+00 - B15+50 RT (EDGE LINE RT)
B10+30 - B15+50 CL (DOTTED LANE LINE)

TEMPORARY 6 INCH WHITE LINE, PAINT

RAMP D:
D0+00 - D14+25 RT (EDGE LINE RT)
D1+00 - D4+60 CL (DOTTED LANE LINE)
D10+90 - D11+90 RT (DOTTED LANE LINE)
D11+90 - D14+25 CL (SOLID LANE LINE)

RAMP B:
B0+00 - B15+50 RT (EDGE LINE RT)
B10+30 - B15+50 CL (DOTTED LANE LINE)

DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)

RAMP D:
D8+10 - D14+25 LT (EDGE LINE LT)

RAMP B:
B0+00 - B7+50 LT (EDGE LINE LT)

TEMPORARY 6 INCH YELLOW LINE, PAINT

RAMP D:
D8+10 - D14+25 LT (EDGE LINE LT)

RAMP B:
B0+00 - B7+50 LT (EDGE LINE LT)

DURABLE 12 INCH WHITE LINE (OPTION BID ITEM)

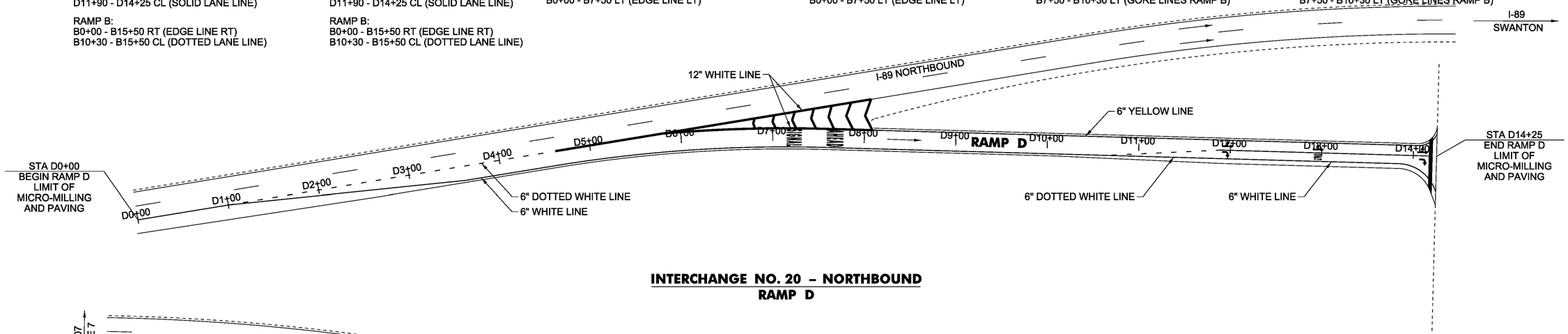
RAMP D:
D4+60 - D8+10 LT (GORE LINES RAMP D)

RAMP B:
B7+50 - B10+30 LT (GORE LINES RAMP B)

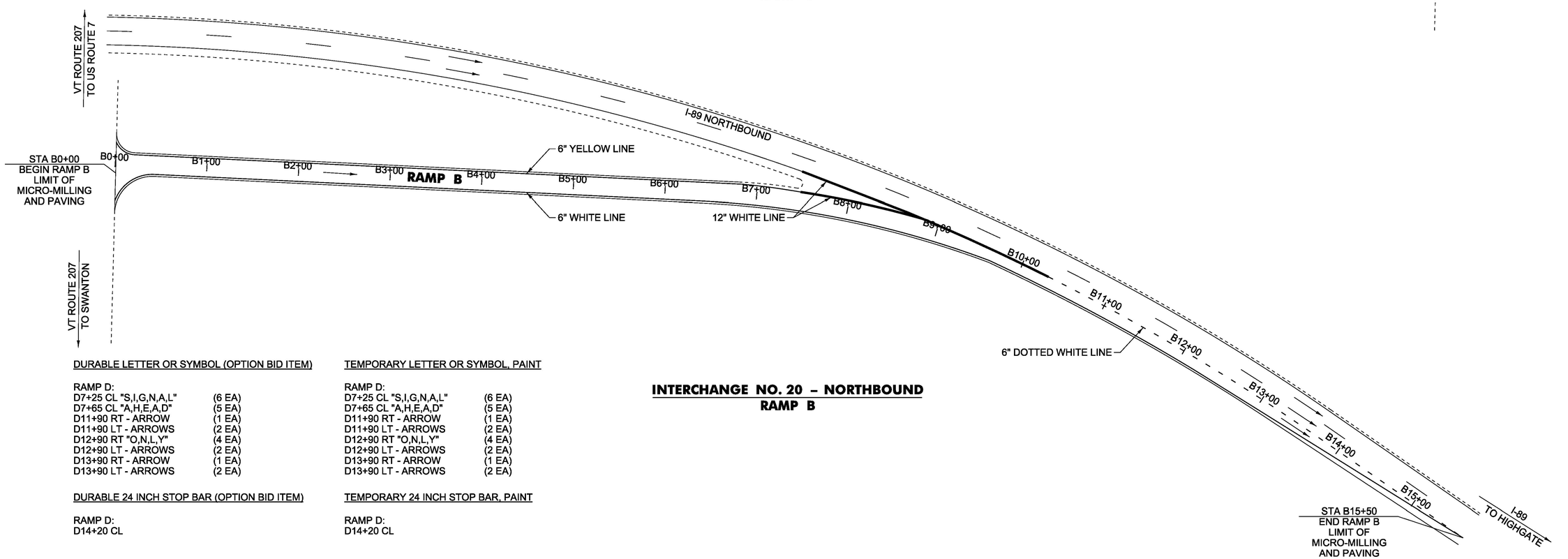
TEMPORARY 12 INCH WHITE LINE, PAINT

RAMP D:
D4+60 - D8+10 LT (GORE LINES RAMP D)

RAMP B:
B7+50 - B10+30 LT (GORE LINES RAMP B)



INTERCHANGE NO. 20 – NORTHBOUND
RAMP D



DURABLE LETTER OR SYMBOL (OPTION BID ITEM)

RAMP D:	
D7+25 CL "S,I,G,N,A,L"	(6 EA)
D7+65 CL "A,H,E,A,D"	(5 EA)
D11+90 RT - ARROW	(1 EA)
D11+90 LT - ARROWS	(2 EA)
D12+90 RT "O,N,L,Y"	(4 EA)
D12+90 LT - ARROWS	(2 EA)
D13+90 RT - ARROW	(1 EA)
D13+90 LT - ARROWS	(2 EA)

DURABLE 24 INCH STOP BAR (OPTION BID ITEM)

RAMP D:
D14+20 CL

TEMPORARY LETTER OR SYMBOL, PAINT

RAMP D:	
D7+25 CL "S,I,G,N,A,L"	(6 EA)
D7+65 CL "A,H,E,A,D"	(5 EA)
D11+90 RT - ARROW	(1 EA)
D11+90 LT - ARROWS	(2 EA)
D12+90 RT "O,N,L,Y"	(4 EA)
D12+90 LT - ARROWS	(2 EA)
D13+90 RT - ARROW	(1 EA)
D13+90 LT - ARROWS	(2 EA)

TEMPORARY 24 INCH STOP BAR, PAINT

RAMP D:
D14+20 CL

INTERCHANGE NO. 20 – NORTHBOUND
RAMP B

NOT TO SCALE

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: p16v071_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
PLAN SHEET 12	SHEET 37 OF 54

DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)

RAMP C:
C0+00 - C20+40 LT (EDGE LINE LT)
C0+00 - C11+00 CL (DOTTED LANE LINE)

TEMPORARY 6 INCH WHITE LINE, PAINT

RAMP C:
C0+00 - C20+40 LT (EDGE LINE LT)
C0+00 - C11+00 CL (DOTTED LANE LINE)

DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)

RAMP C:
C12+50 - C20+40 RT (EDGE LINE RT)

TEMPORARY 6 INCH YELLOW LINE, PAINT

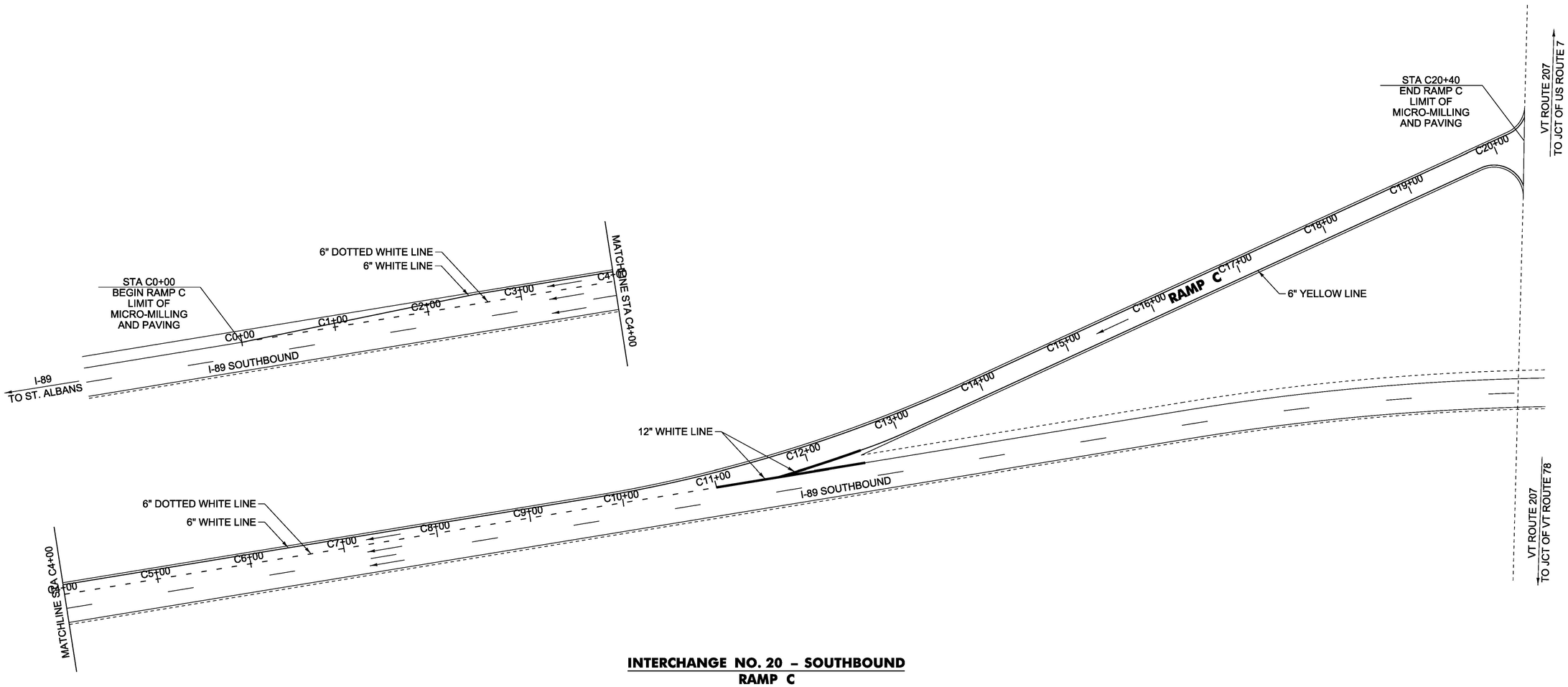
RAMP C:
C12+50 - C20+40 RT (EDGE LINE RT)

DURABLE 12 INCH WHITE LINE (OPTION BID ITEM)

RAMP C:
C11+00 - C12+40 RT (EDGE LINE RT)

TEMPORARY 12 INCH WHITE LINE, PAINT

RAMP C:
C11+00 - C12+40 RT (EDGE LINE RT)



INTERCHANGE NO. 20 – SOUTHBOUND
RAMP C

NOT TO SCALE

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: p16v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
PLAN SHEET 13	SHEET 38 OF 54

DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)

RAMP A:
A0+00 - A14+00 LT (EDGE LINE LT)
A9+60 - A13+75 CL (DOTTED LANE LINE)

TEMPORARY 6 INCH WHITE LINE, PAINT

RAMP A:
A0+00 - A14+00 LT (EDGE LINE LT)
A9+60 - A13+75 CL (DOTTED LANE LINE)

DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)

RAMP A:
A0+00 - A8+35 RT (EDGE LINE RT)

TEMPORARY 6 INCH YELLOW LINE, PAINT

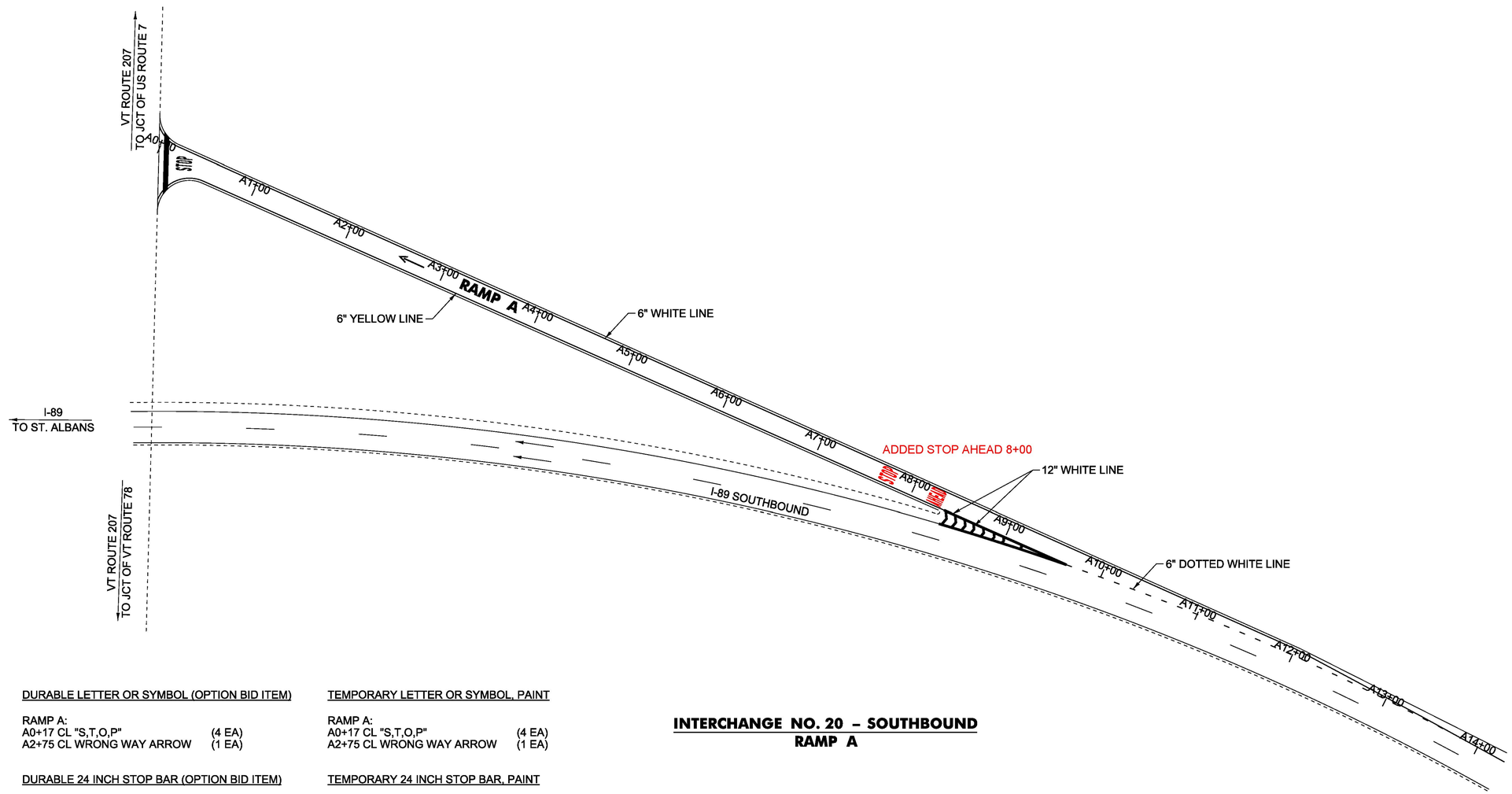
RAMP A:
A0+00 - A8+35 RT (EDGE LINE RT)

DURABLE 12 INCH WHITE LINE (OPTION BID ITEM)

RAMP A:
A8+35 - A9+60 RT (EDGE LINE RT)

TEMPORARY 12 INCH WHITE LINE, PAINT

RAMP A:
A8+35 - A9+60 RT (EDGE LINE RT)



DURABLE LETTER OR SYMBOL (OPTION BID ITEM)

RAMP A:
A0+17 CL "S,T,O,P" (4 EA)
A2+75 CL WRONG WAY ARROW (1 EA)

TEMPORARY LETTER OR SYMBOL, PAINT

RAMP A:
A0+17 CL "S,T,O,P" (4 EA)
A2+75 CL WRONG WAY ARROW (1 EA)

DURABLE 24 INCH STOP BAR (OPTION BID ITEM)

RAMP A:
A0+07 CL

TEMPORARY 24 INCH STOP BAR, PAINT

RAMP A:
A0+07 CL

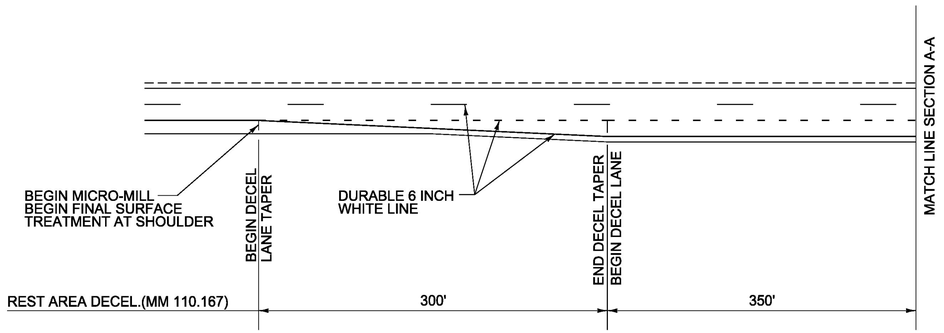
INTERCHANGE NO. 20 – SOUTHBOUND
RAMP A

NOT TO SCALE

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: p16v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
PLAN SHEET 14	SHEET 39 OF 54

REST AREA
NORTHBOUND – GEORGIA

MM 110.373



DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)

EDGE LINE RT (DECELERATION LANE)
EDGE LINE RT (ACCERLATION LANE)
DOTTED LANE LINE LT (DECERLATION LANE)
DOTTED LANE LINE LT (ACCELERATION LANE)

TEMPORARY 6 INCH WHITE LINE, PAINT

EDGE LINE RT (DECELERATION LANE)
EDGE LINE RT (ACCERLATION LANE)
DOTTED LANE LINE LT (DECERLATION LANE)
DOTTED LANE LINE LT (ACCELERATION LANE)

DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)

EDGE LINE LT (DECELERATION LANE)
EDGE LINE LT (ACCERLATION LANE)

TEMPORARY 6 INCH YELLOW LINE, PAINT

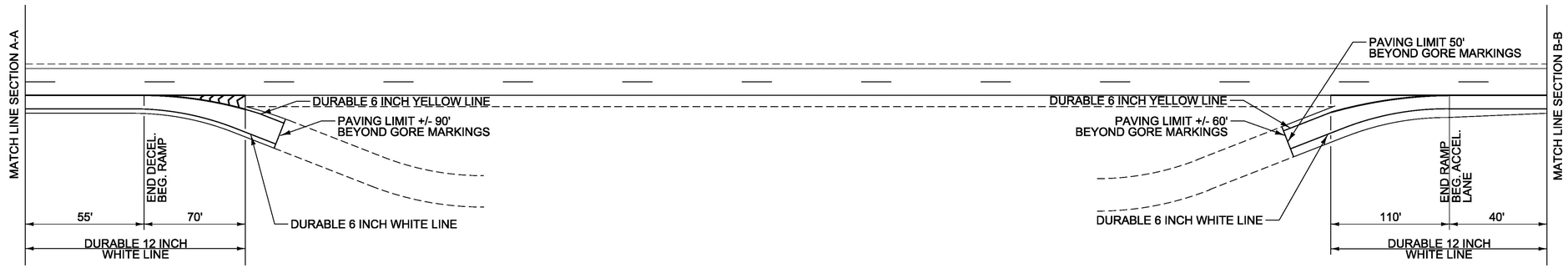
EDGE LINE LT (DECELERATION LANE)
EDGE LINE LT (ACCERLATION LANE)

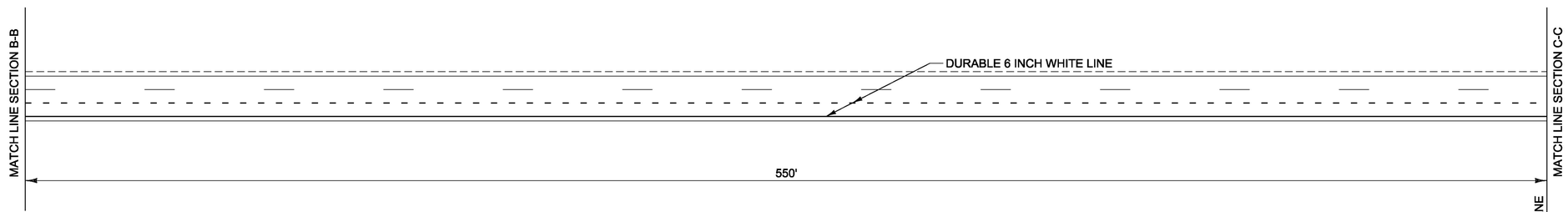
DURABLE 12 INCH WHITE LINE (OPTION BID ITEM)

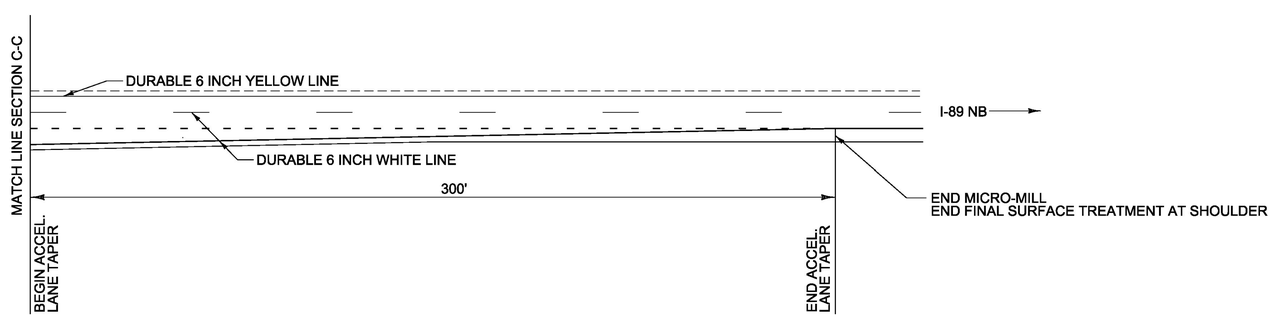
GORE AREA LT (DECELERATION LANE)
GORE AREA LT (ACCELERATION LANE)

TEMPORARY 12 INCH WHITE LINE, PAINT

GORE AREA LT (DECELERATION LANE)
GORE AREA LT (ACCELERATION LANE)





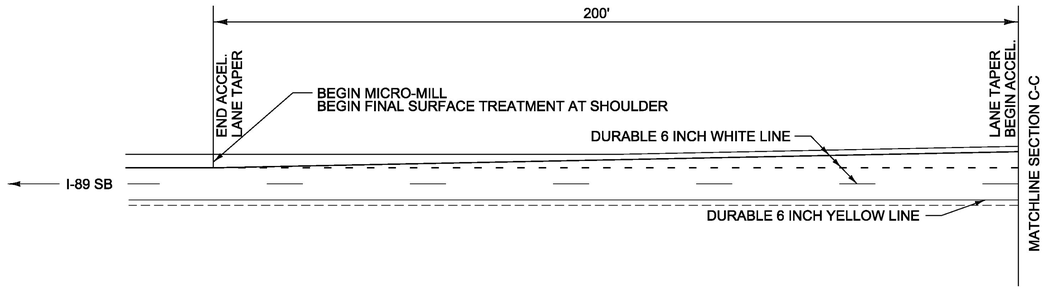


NOT TO SCALE

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: p16v071_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
REST AREA DETAIL SHEET 1	SHEET 40 OF 54

REST AREA
SOUTHBOUND – GEORGIA

MM 110.970



DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)

EDGE LINE LT (DECELERATION LANE)
EDGE LINE LT (ACCERLATION LANE)
DOTTED LANE LINE LT (DECERLATION LANE)
DOTTED LANE LINE LT (ACCELERATION LANE)

DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)

EDGE LINE LT (DECELERATION LANE)
EDGE LINE LT (ACCERLATION LANE)

DURABLE 12 INCH WHITE LINE (OPTION BID ITEM)

GORE AREA LT (DECELERATION LANE)
GORE AREA LT (ACCELERATION LANE)

TEMPORARY 6 INCH WHITE LINE, PAINT

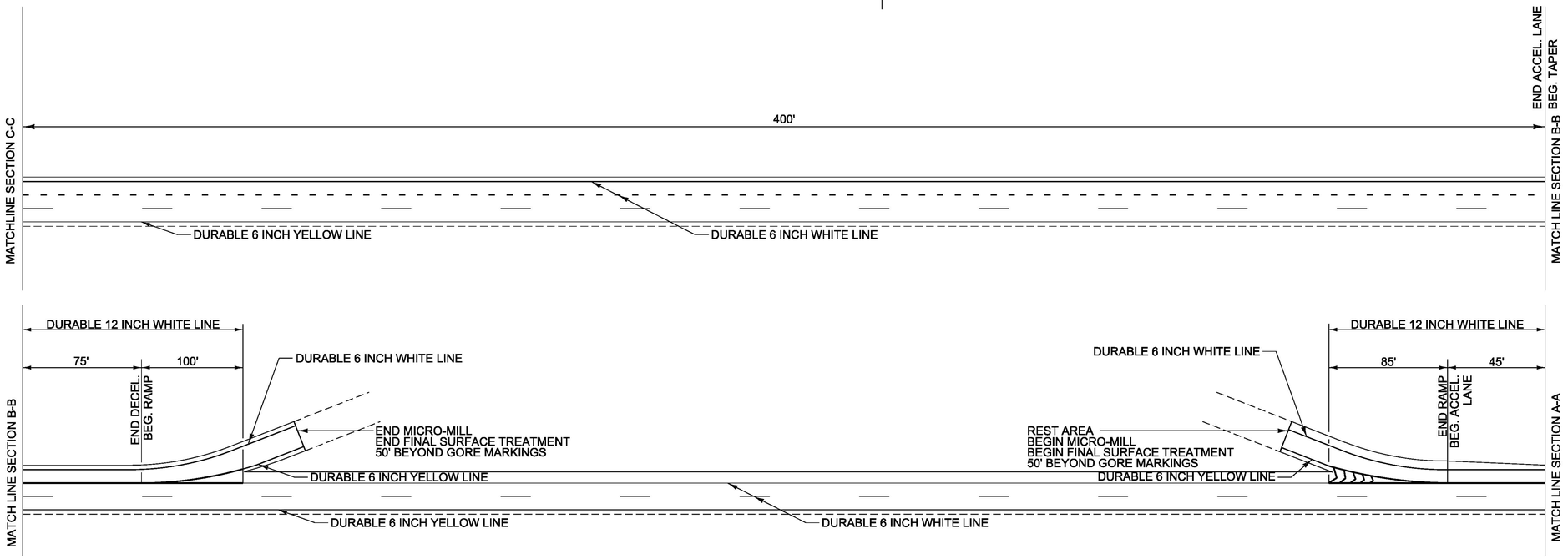
EDGE LINE LT (DECELERATION LANE)
EDGE LINE LT (ACCERLATION LANE)
DOTTED LANE LINE LT (DECERLATION LANE)
DOTTED LANE LINE LT (ACCELERATION LANE)

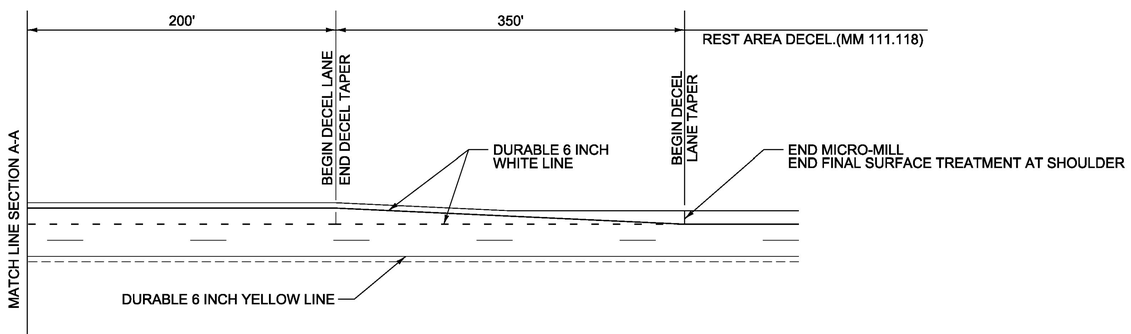
TEMPORARY 6 INCH YELLOW LINE, PAINT

EDGE LINE LT (DECELERATION LANE)
EDGE LINE LT (ACCERLATION LANE)

TEMPORARY 12 INCH WHITE LINE, PAINT

GORE AREA LT (DECELERATION LANE)
GORE AREA LT (ACCELERATION LANE)





NOT TO SCALE

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: p16v071_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
REST AREA DETAIL SHEET 2	SHEET 41 OF 54

ITEM 900.620 SPECIAL PROVISION (VEHICLE SIGNAL HEADS, LED)(MS 829)		
QUANTITY	UNIT	DESCRIPTION
7	EA	ONE-WAY THREE-SECTION LED SIGNAL HEADS
1	EA	ONE-WAY FOUR-SECTION LED SIGNAL HEAD
8	EA	MOUNTING BRACKETS
8	EA	LOUVERED BACKPLATES WITH RETROREFLECTIVE BORDER
1000	LF	SIGNAL WIRING (EST. QUANTITY ONLY)

ITEM 900.620 SPECIAL PROVISION (REMOVE AND REPLACE TRAFFIC SIGNAL CONTROLLER)(MS 829)		
QUANTITY	UNIT	DESCRIPTION
1	EA	TRAFFIC SIGNAL CONTROLLER (ECONOLITE COBALT TS2 TYPE 2 WITH TELEMETRY MODULE)
1	EA	SMART MALFUNCTION MONITOR UNIT (MMU)
1	EA	MODIFY EXISTING CABINET FOR FLASHING YELLOW ARROW

TRAFFIC SIGNAL NOTES

1. ITEM 900.620 SPECIAL PROVISION (VEHICLE SIGNAL HEADS, LED)(MS 829) AND ITEM 900.620 SPECIAL PROVISION (REMOVE AND REPLACE TRAFFIC SIGNAL CONTROLLER)(MS 829) IS BE USED AT THE MAST ARMS LOCATED THE INTERSECTION OF US ROUTE 2, I-89 EXIT 17 - RAMP A AND I-89 EXIT 17 - RAMP B.

2. THIS PLAN SHEET IS NOT TO SCALE AND SHOULD ONLY BE USED AS A GUIDE FOR THE PLACEMENT OF THE HARDWARE LISTED. THE CONTRACTOR SHALL CONFIRM ALL LOCATIONS IN THE FIELD WITH THE ENGINEER PRIOR TO INSTALLATION. LOCATIONS MAY BE REVISED AS A RESULT OF THIS SITE SURVEY.

3. EXISTING VIDEO DETECTION EQUIPMENT TO BE RETAINED.

4. ALL SALVAGABLE EQUIPMENT REMOVED TO REMAIN THE PROPERTY OF THE STATE. SALVAGED EQUIPMENT SHALL BE RETURNED TO COLCHESTER DISTRICT 5 OFFICE. CONTACT STEVE GUYETTE: 802-655-1580

5. THE TRAFFIC SIGNAL CONTROLLER SHALL BE AN ECONOLITE COBALT TS-2 TYPE 2, WITH TELEMETRY MODULE.

6. EXISTING CONTROLLER TIMING AND COORDINATION TO BE DUPLICATED EXCEPT AS NOTED. FOR ADDITIONAL INFORMATION REGARDING EXISTING CONTROLLER PROGRAMMING CONTACT SIGNAL OPERATIONS ENGINEER DEREK LYMAN AT 802-249-5079.

7. PERMISSIVE FLASHING YELLOW ARROW PHASE TO BE OMITTED DURING AM AND PM PEAK PERIODS. PHASE 1 SHOULD OPERATE AS A PROTECTED-ONLY MOVEMENT DURING THOSE TIME PERIODS.

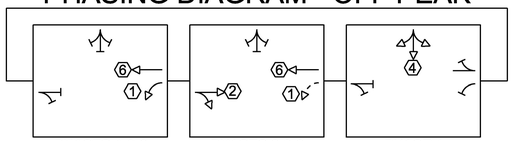
8. MAST ARM MOUNTED SIGNAL HEADS SHALL BE INSTALLED CENTERED ON THE MAST ARM, PROVIDED THIS DOES NOT RESULT IN MINIMUM CLEARANCE OF LESS THAN 17' OR EXCEEDING THE MAXIMUM HEIGHT ALLOWED BY THE MUTCD. CONTACT VTRANS SIGNAL TECH STEVE GUYETTE AT 802-655-1580 FOR MORE INFORMATION ABOUT MOUNTING HEIGHTS. SIGNAL HEADS SHALL BE REPLACED IN THE SAME HORIZONTAL LOCATION AS EXISTING HEADS.

9. NEW MAST-ARM POLE MOUNTED SUPPLEMENTAL SIGNAL HEAD SHALL BE INSTALLED SUCH THAT THE BOTTOM OF THE BACKPLATE IS 12' ABOVE THE ADACENT MAINLINE EDGE OF PAVEMENT

10. PAYMENT FOR REMOVING EXISTING SIGN AND INSTALLING NEW "LEFT TURN YIELD ON FLASHING YELLOW ARROW" SIGN SHALL BE CONSIDERED INCIDENTAL TO ITEM 900.620 SPECIAL PROVISION (VEHICLE SIGNAL HEADS, LED)(MS 829).

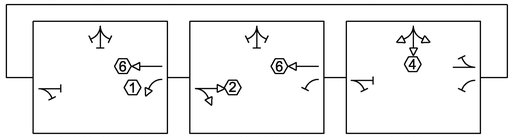
11. REMOVE EXISTING STOP BAR AND LEFT TURN ARROW AT LEFT TURN LANE. INSTALL NEW STOP BAR AND LEFT TURN ARROW 10 FEET BACK FROM ITS CURRENT LOCATION. REMOVAL OF EXISTING STOP BAR AND EXISTING LEFT TURN ARROW WILL BE PAID FOR UNDER CONTRACT ITEM 646.85 - REMOVAL OF EXISTING TRAFFIC MARKINGS.

PHASING DIAGRAM - OFF PEAK

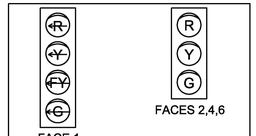


(PERMITTED PHASE 1: FLASHING YELLOW ARROW)

PHASING DIAGRAM - AM AND PM PEAKS



PROPOSED SIGNAL FACE ARRANGEMENTS



12" LED LENSES

NOTE: FLASHING YELLOW ARROW SHALL NOT BE DISPLAYED WHEN OPERATING IN PROTECTED ONLY MODE.

DURABLE LETTER OR SYMBOL (OPTION BID ITEM)

(SEE NOTE 10) - TURN ARROW (1 EA)

DURABLE 24 INCH STOP BAR (OPTION BID ITEM)

(SEE NOTE 10)

CONTROLLER TIMING CHART

PHASE	1	2	3	4	5	6	7	8	9
IN USE	X	X		X		X			
TRAFFIC MOVEMENT	WBL	EB		SB		WB			
MIN. GREEN	5	5		5		5			
MAX 1 - GREEN (OFF)	22	14		8		40			
MAX 2 - GREEN (AM)	10	36		10		50			
MAX 3 - GREEN (PM)	15	16		13		35			
YELLOW CLEARANCE	4	4		4		4			
ALL RED CLEARANCE	2	2		2		2			
VEHICLE EXTENSION	1.5	3		3		3			
RECALL MODE	NONE	VEH		NONE		VEH			

TIME OF DAY PROGRAM

	WEEKDAY TIMINGS		
MAX 2 - AM PEAK	6:00 AM	TO	9:00 AM
MAX 1 - OFF PEAK	9:00 AM	TO	3:00 PM
MAX 3 - PM PEAK	3:00 PM	TO	7:00 PM
MAX 1 - OFF PEAK	7:00 PM	TO	11:00 PM
FREE	11:00 PM	TO	6:00 AM
	WEEKEND TIMINGS		
MAX 1 - OFF PEAK	6:00 AM	TO	11:00 PM
FREE	11:00 PM	TO	6:00 AM

PROJECT NAME: COLCHESTER-SWANTON
PROJECT NUMBER: IM SURF(56)

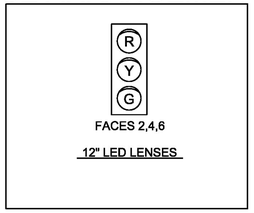
FILE NAME: t16v07lsig01.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: I. DEGUTIS
TRAFFIC SIGNAL SHEET 1

PLOT DATE: 22-DEC-2016
DRAWN BY: I. DEGUTIS
CHECKED BY: M. LACROIX
SHEET 42 OF 54

ITEM 900.620 SPECIAL PROVISION (VEHICLE SIGNAL HEADS, LED)(MS 828)		
QUANTITY	UNIT	DESCRIPTION
7	EA	ONE-WAY THREE-SECTION LED SIGNAL HEADS
7	EA	MOUNTING BRACKETS
7	EA	LOUVERED BACKPLATES WITH RETROREFLECTIVE BORDER
500	LF	SIGNAL WIRING (EST. QUANTITY ONLY)

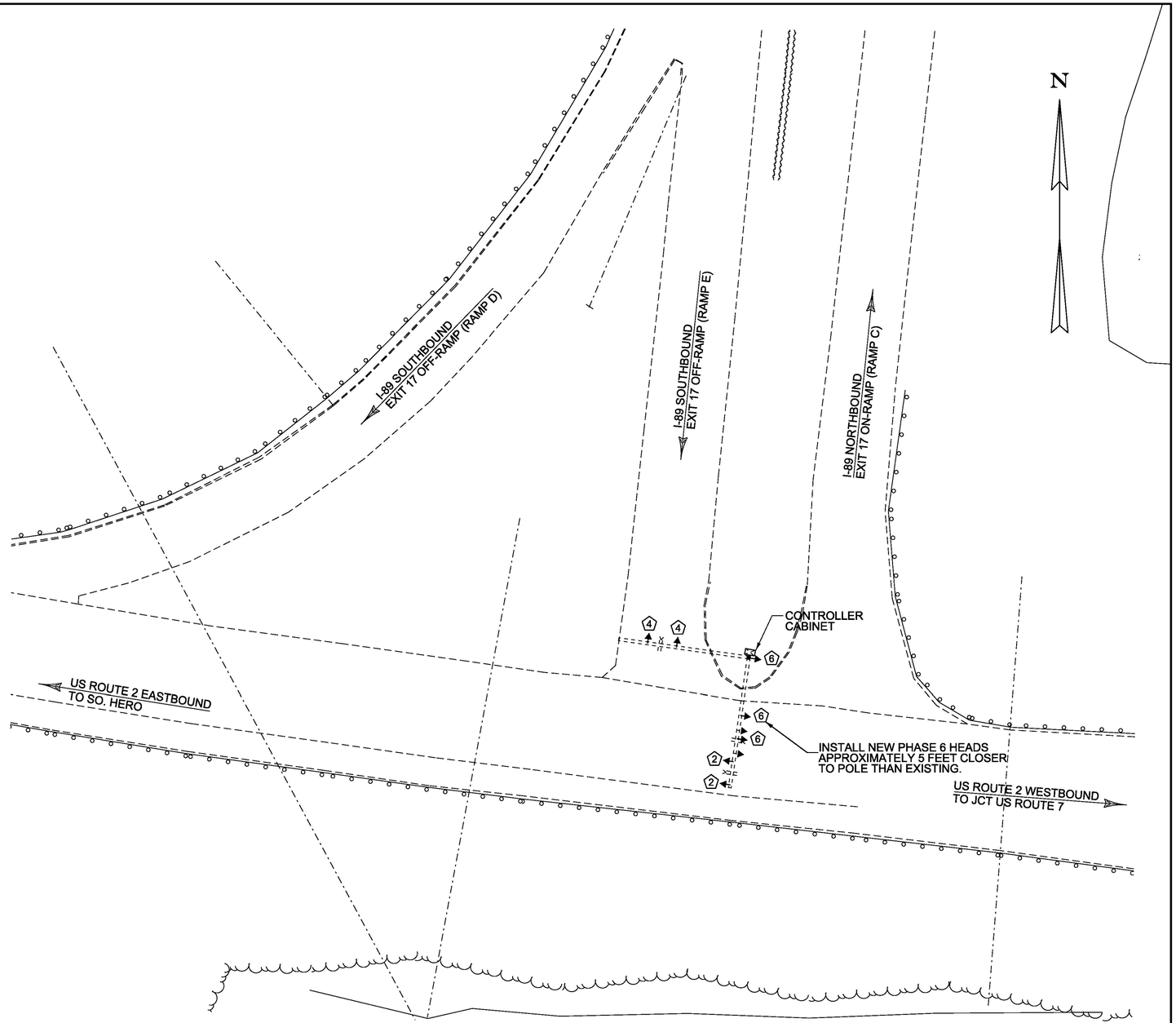
ITEM 900.620 SPECIAL PROVISION (REMOVE AND REPLACE TRAFFIC SIGNAL CONTROLLER)(MS 828)		
QUANTITY	UNIT	DESCRIPTION
1	EA	SMART MALFUNCTION MONITOR UNIT (MMU)
1	EA	TRAFFIC SIGNAL CONTROLLER (ECONOLITE COBALT TS2 TYPE 2 WITH TELEMETRY MODULE)

PROPOSED SIGNAL FACE ARRANGEMENTS

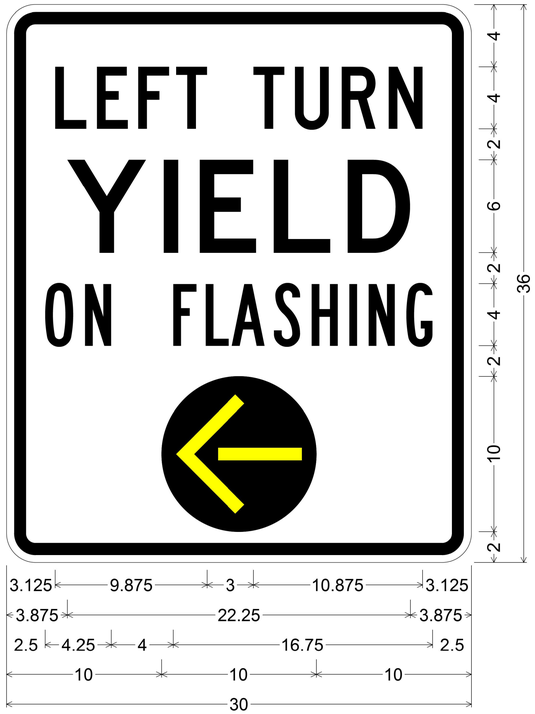


TRAFFIC SIGNAL NOTES

1. ITEM 900.620 SPECIAL PROVISION (VEHICLE SIGNAL HEADS, LED)(MS 828) AND ITEM 900.620 SPECIAL PROVISION (REMOVE AND REPLACE TRAFFIC SIGNAL CONTROLLER)(MS 828) IS BE USED AT THE MAST ARMS LOCATED THE INTERSECTION OF US ROUTE 2 AND I-89 EXIT 17 - RAMP E.
2. THIS PLAN SHEET IS NOT TO SCALE AND SHOULD ONLY BE USED AS A GUIDE FOR THE PLACEMENT OF THE HARDWARE LISTED. THE CONTRACTOR SHALL CONFIRM ALL LOCATIONS IN THE FIELD WITH THE ENGINEER PRIOR TO INSTALLATION. LOCATIONS MAY BE REVISED AS A RESULT OF THIS SITE SURVEY.
3. EXISTING VIDEO DETECTION EQUIPMENT TO BE RETAINED.
4. ALL SALVAGABLE EQUIPMENT REMOVED TO REMAIN THE PROPERTY OF THE STATE. SALVAGED EQUIPMENT SHALL BE RETURNED TO COLCHESTER DISTRICT 5 OFFICE.
   CONTACT STEVE GUYETTE: 802-655-1580
5. THE TRAFFIC SIGNAL CONTROLLER SHALL BE AN ECONOLITE COBALT TS-2 TYPE 2, WITH TELEMETRY MODULE.
6. EXISTING CONTROLLER TIMING AND COORDINATION TO BE DUPLICATED UNLESS DIRECTED OTHERWISE BY THE ENGINEER. FOR ADDITIONAL INFORMATION REGARDING EXISTING CONTROLLER PROGRAMMING CONTACT SIGNAL OPERATIONS ENGINEER DEREK LYMAN AT 802-249-5079.
7. MAST ARM MOUNTED SIGNAL HEADS SHALL BE INSTALLED CENTERED ON THE MAST ARM, PROVIDED THIS DOES NOT RESULT IN MINIMUM CLEARANCE OF LESS THAN 17' OR EXCEEDING THE MAXIMUM HEIGHT ALLOWED BY THE MUTCD. CONTACT VTRANS SIGNAL TECH STEVE GUYETTE AT 802-655-1580 FOR MORE INFORMATION ABOUT MOUNTING HEIGHTS.
8. SIGNAL HEADS FOR PHASES 2 AND 4 SHALL BE REPLACED IN THE SAME HORIZONTAL LOCATION AS EXISTING HEADS. REPLACMENT SIGNAL HEADS FOR PHASE 6 SHALL BE SHIFTED APPROXIMATELY 5' NORTH TO BETTER ALIGN WITH THE LANE MARKINGS ON US-2. MINOR ADJUSTMENT TO THIS DIMENSION MAY BE NECESSARY TO AVOID VIDEO VEHICLE DETECTION CAMERA. SIGNAL HEADS SHALL BE INSTALLED A MINIUMUM OF 8 FEET APART.
9. NEW MAST-ARM POLE MOUNTED SUPPLEMENTAL SIGNAL HEAD SHALL BE INSTALLED SUCH THAT THE BOTTOM OF THE BACKPLATE IS 12' ABOVE THE ADACENT MAINLINE EDGE OF PAVEMENT

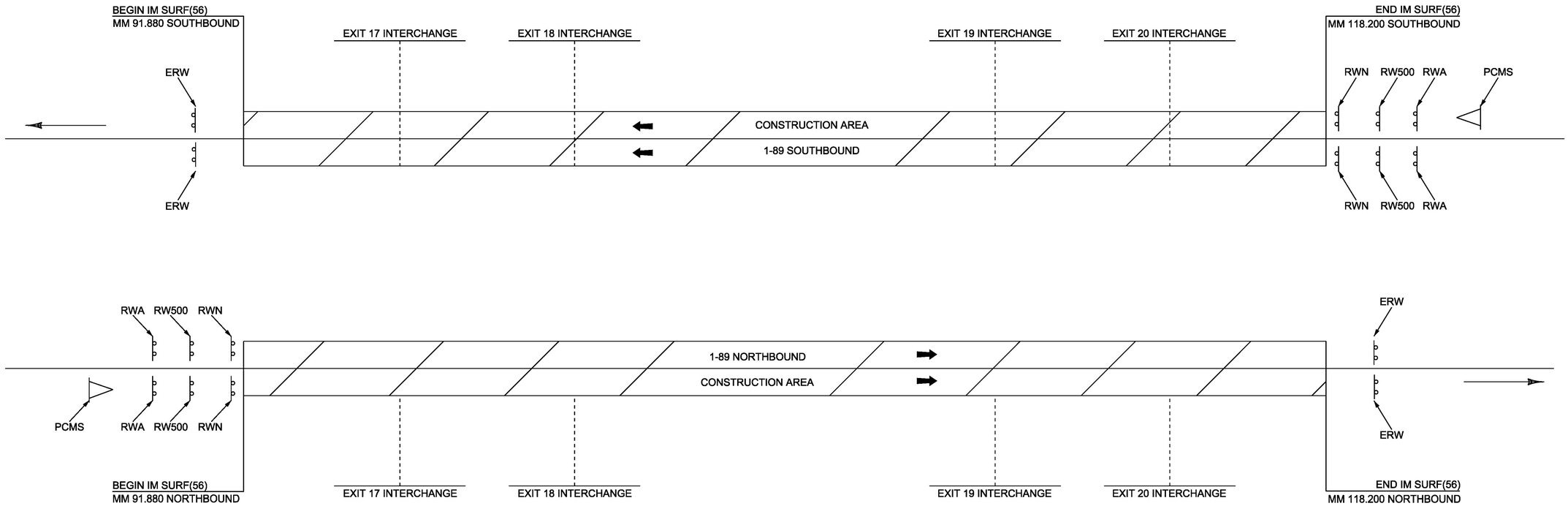


PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: t16v07lsig02.dgn	PLOT DATE: 22-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: I. DEGUTIS
DESIGNED BY: I. DEGUTIS	CHECKED BY: M. LACROIX
TRAFFIC SIGNAL SHEET 2	SHEET 43 OF 54



R10-101(30x36-STD)WHT;
1.875" Radius, 0.750" Border, 0.500" Indent, Black on White;
“LEFT TURN” C; “YIELD” D; “ON FLASHING” B;
FYA symbol;

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56 101/100
FILE NAME: t16v07lsig01.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: I. DEGUTIS
DESIGNED BY: I. DEGUTIS	CHECKED BY: M. LACROIX
SIGN DETAIL SHEET	SHEET 44 OF 54



TOWN/STATE HIGHWAY NAME	ROAD WORK AHEAD	END ROAD WORK	ROAD WORK 500'	ROAD WORK NEXT 1 MILE	ROAD WORK NEXT 5 MILES	ROAD WORK NEXT 12 MILES	ROAD WORK NEXT 21 MILES	ROAD WORK NEXT 27 MILES	PCMS
I-89 NORTHBOUND									
BEGINNING OF PROJECT	2		2					2	1
EXIT 17 INTERCHANGE	4	4					2		1
EXIT 18 INTERCHANGE	4	4				2			1
EXIT 19 INTERCHANGE	4	4			2				1
EXIT 20 INTERCHANGE	4	4		2					1
END OF PROJECT		2							1
TOTALS	18	18	2	2	2	2	2	2	6

TOWN/STATE HIGHWAY NAME	ROAD WORK AHEAD	END ROAD WORK	ROAD WORK 500'	ROAD WORK NEXT 6 MILES	ROAD WORK NEXT 15 MILES	ROAD WORK NEXT 22 MILES	ROAD WORK NEXT 26 MILES	ROAD WORK NEXT 27 MILES	PCMS
I-89 SOUTHBOUND									
BEGINNING OF PROJECT		2							1
EXIT 17 INTERCHANGE	4	4		2					1
EXIT 18 INTERCHANGE	4	4			2				1
EXIT 19 INTERCHANGE	4	4				2			1
EXIT 20 INTERCHANGE	4	4					2		1
END OF PROJECT	2		2					2	1
TOTALS	18	18	2	2	2	2	2	2	6

LEGEND

RWA = ROAD WORK AHEAD
RW500 = ROAD WORK IN 500 FEET
RWN = ROAD WORK NEXT (XX MILES)
ERW = END ROAD WORK
SRWA = SIDE ROAD WORK AHEAD
SRW500 = SIDE ROAD WORK 500 FEET

= PORTABLE CHANGEABLE MESSAGE SIGN

= WORK AREA

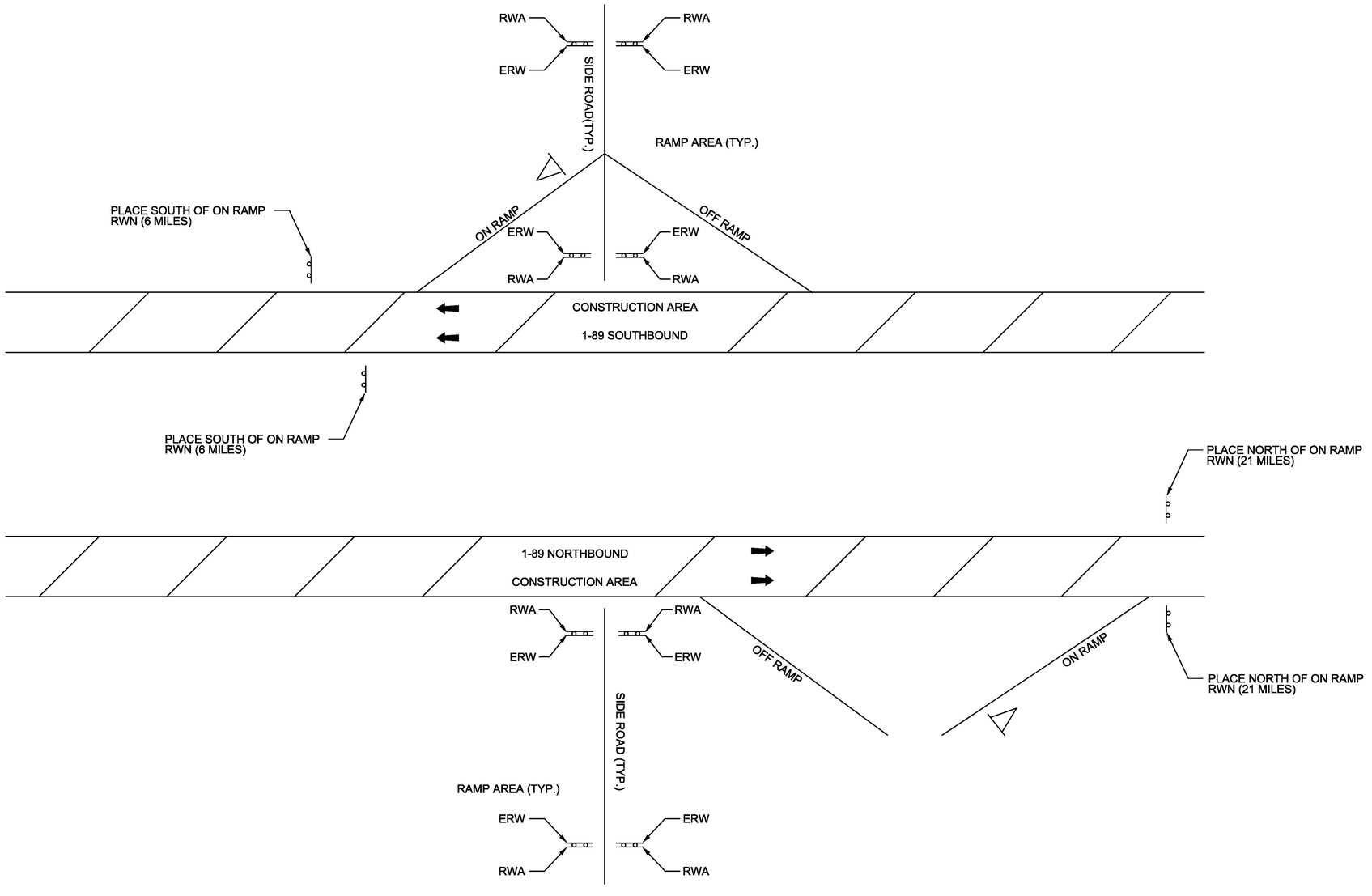
= DIRECTION OF TRAFFIC FLOW

SEE VAOT STANDARDS T-1, T-10, T-11 AND T-12 FOR SIGN PLACEMENT.
CONSTRUCTION APPROACH SIGNING SHALL BE PLACED AS NOT TO INTERFERE WITH EXISTING TRAFFIC CONTROL DEVICES.
SEE CONSTRUCTION APPROACH SIGNING NOTES SHEET.

PROJECT NAME: COLCHESTER-SWANTON
PROJECT NUMBER: IM SURF(56)

FILE NAME: p16v071_wrk.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: B. KIPP
CONSTRUCTION APPROACH SIGNING SHEET I

PLOT DATE: 09-DEC-2016
DRAWN BY: B. KIPP
CHECKED BY: M. FOWLER
SHEET 45 OF 54



LEGEND

RWA	= ROAD WORK AHEAD
RW500	= ROAD WORK IN 500 FEET
RWN	= ROAD WORK NEXT (XX MILES)
ERW	= END ROAD WORK
SRWA	= SIDE ROAD WORK AHEAD
SRW500	= SIDE ROAD WORK 500 FEET

= PORTABLE CHANGEABLE MESSAGE SIGN

= WORK AREA

= DIRECTION OF TRAFFIC FLOW

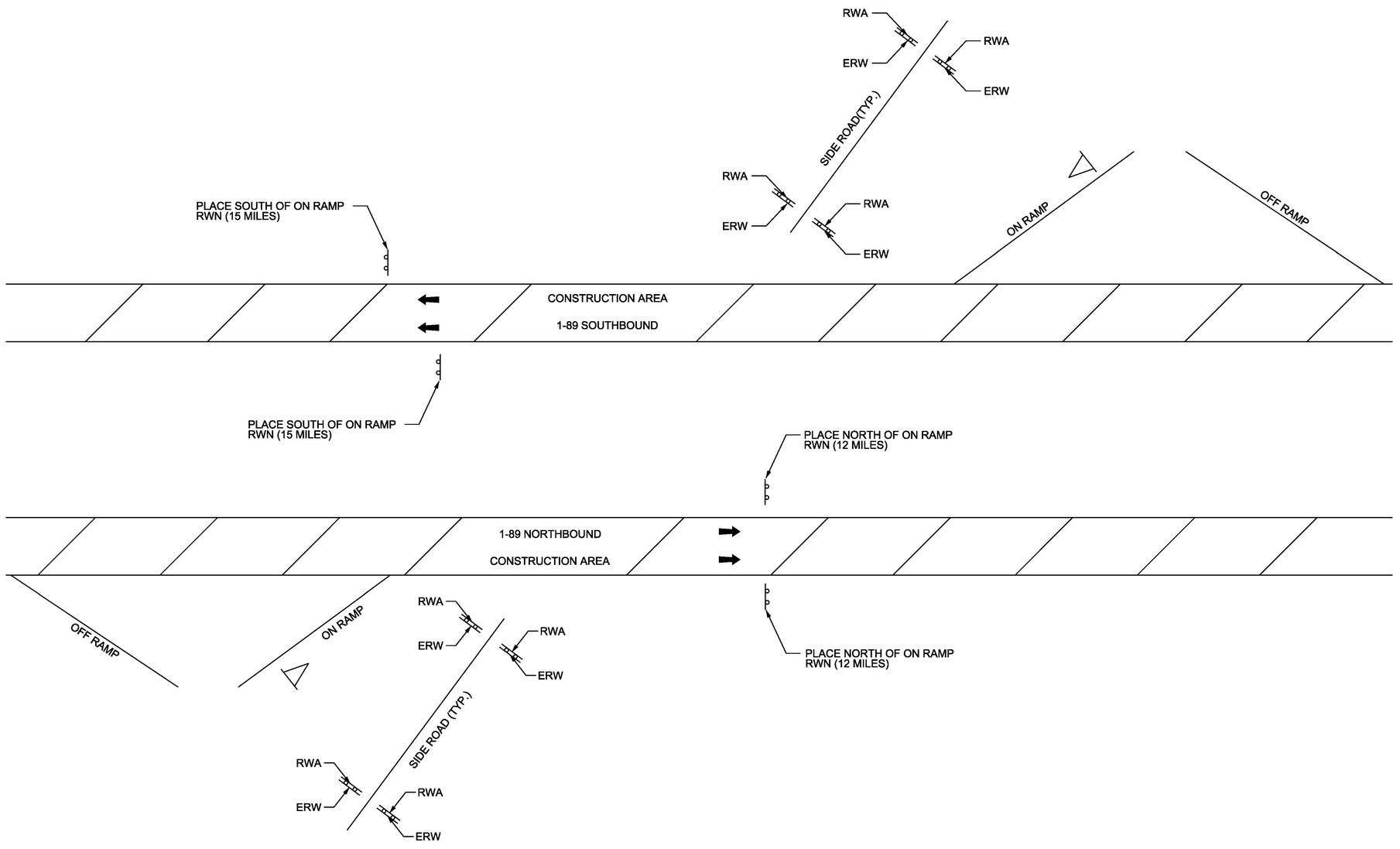
SEE VAOT STANDARDS T-1, T-10, T-11 AND T-12 FOR SIGN PLACEMENT.
CONSTRUCTION APPROACH SIGNING SHALL BE PLACED AS NOT TO INTERFERE WITH EXISTING TRAFFIC CONTROL DEVICES.
SEE CONSTRUCTION APPROACH SIGNING NOTES SHEET.

EXIT 17 - INTERCHANGE

PROJECT NAME: COLCHESTER-SWANTON
PROJECT NUMBER: IM SURF(56)

FILE NAME: pl6v07l_wrk.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: B. KIPP
CONSTRUCTION APPROACH SIGNING SHEET 2

PLOT DATE: 09-DEC-2016
DRAWN BY: B. KIPP
CHECKED BY: M. FOWLER
SHEET 46 OF 54



LEGEND

RWA	= ROAD WORK AHEAD
RW500	= ROAD WORK IN 500 FEET
RWN	= ROAD WORK NEXT (XX MILES)
ERW	= END ROAD WORK
SRWA	= SIDE ROAD WORK AHEAD
SRW500	= SIDE ROAD WORK 500 FEET

= PORTABLE CHANGEABLE MESSAGE SIGN

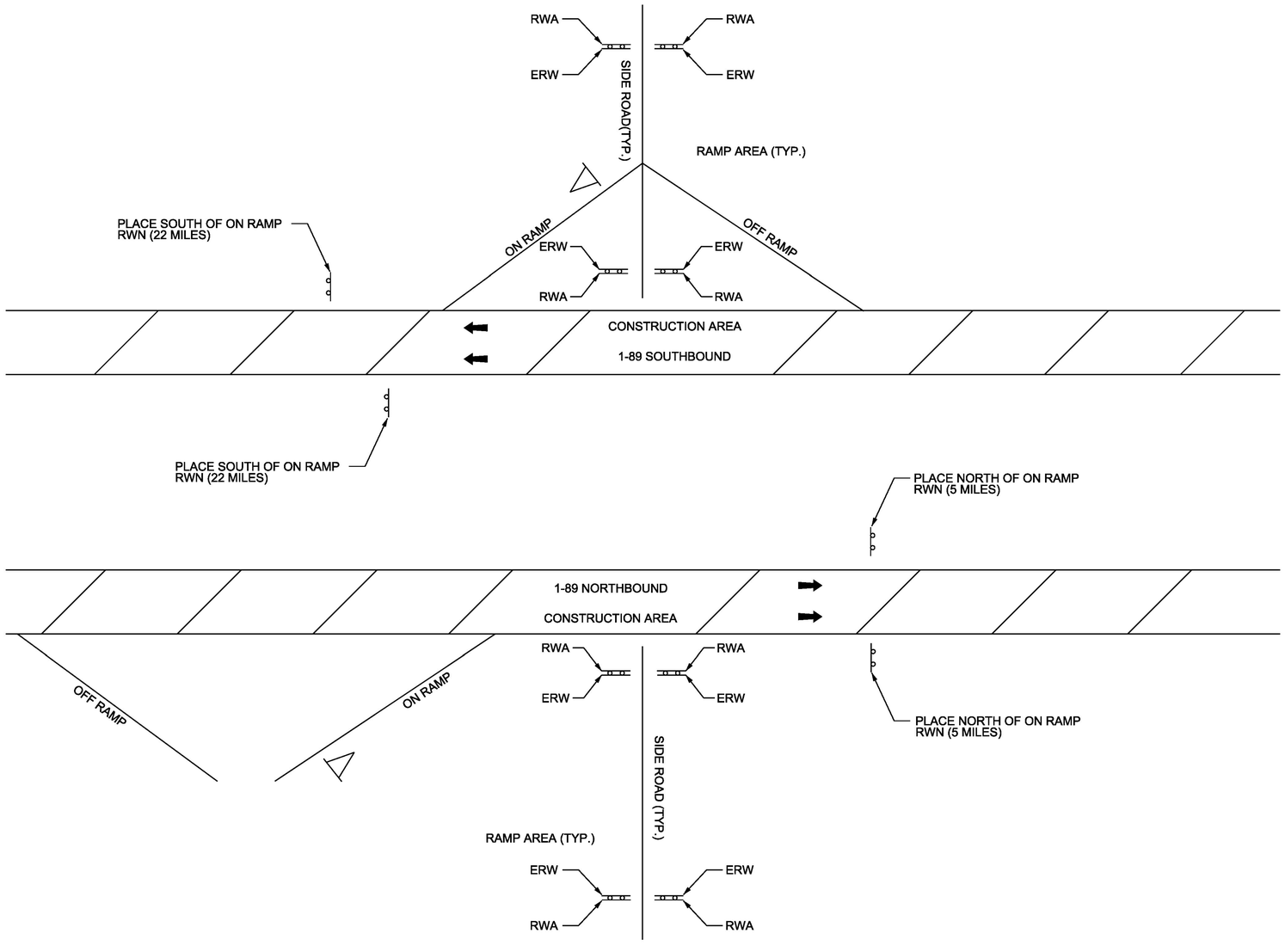
= WORK AREA

= DIRECTION OF TRAFFIC FLOW

SEE VAOT STANDARDS T-1, T-10, T-11 AND T-12 FOR SIGN PLACEMENT.
CONSTRUCTION APPROACH SIGNING SHALL BE PLACED AS NOT TO INTERFERE WITH EXISTING TRAFFIC CONTROL DEVICES.
SEE CONSTRUCTION APPROACH SIGNING NOTES SHEET.

EXIT 18 - INTERCHANGE

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: pl6v071_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
CONSTRUCTION APPROACH SIGNING SHEET 3	SHEET 47 OF 54



LEGEND

RWA	= ROAD WORK AHEAD
RW500	= ROAD WORK IN 500 FEET
RWN	= ROAD WORK NEXT (XX MILES)
ERW	= END ROAD WORK
SRWA	= SIDE ROAD WORK AHEAD
SRW500	= SIDE ROAD WORK 500 FEET

= PORTABLE CHANGEABLE MESSAGE SIGN

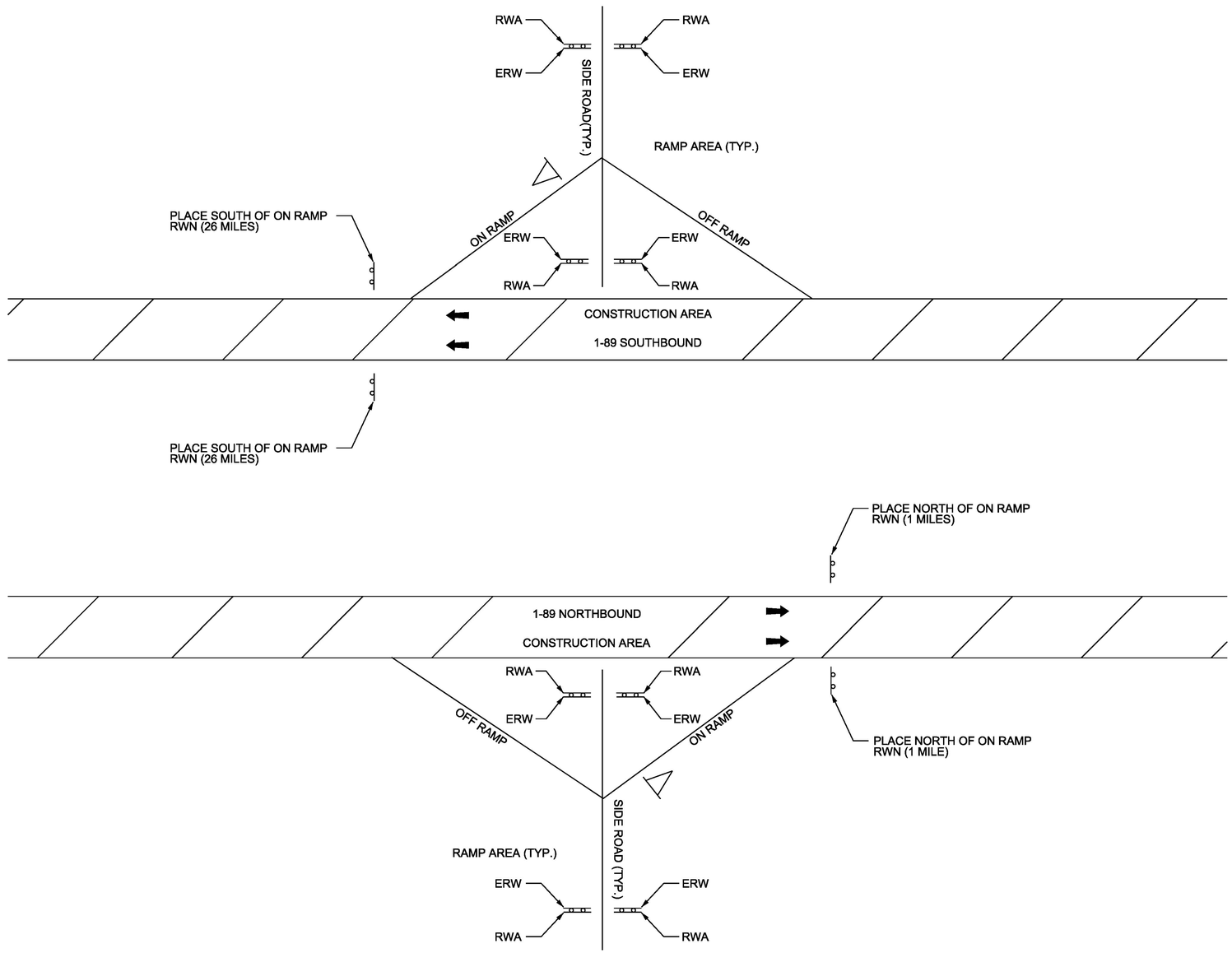
= WORK AREA

= DIRECTION OF TRAFFIC FLOW

SEE VAOT STANDARDS T-1, T-10, T-11 AND T-12 FOR SIGN PLACEMENT.
CONSTRUCTION APPROACH SIGNING SHALL BE PLACED AS NOT TO INTERFERE WITH EXISTING TRAFFIC CONTROL DEVICES.
SEE CONSTRUCTION APPROACH SIGNING NOTES SHEET.

EXIT 19 - INTERCHANGE

PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)
FILE NAME: pl6v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
CONSTRUCTION APPROACH SIGNING SHEET 4	SHEET 48 OF 54



LEGEND

RWA	= ROAD WORK AHEAD
RW500	= ROAD WORK IN 500 FEET
RWN	= ROAD WORK NEXT (XX MILES)
ERW	= END ROAD WORK
SRWA	= SIDE ROAD WORK AHEAD
SRW500	= SIDE ROAD WORK 500 FEET

= PORTABLE CHANGEABLE MESSAGE SIGN

= WORK AREA

= DIRECTION OF TRAFFIC FLOW

SEE VAOT STANDARDS T-1, T-10, T-11 AND T-12 FOR SIGN PLACEMENT.
CONSTRUCTION APPROACH SIGNING SHALL BE PLACED AS NOT TO INTERFERE WITH EXISTING TRAFFIC CONTROL DEVICES.
SEE CONSTRUCTION APPROACH SIGNING NOTES SHEET.

EXIT 20 - INTERCHANGE

PROJECT NAME: COLCHESTER-SWANTON
PROJECT NUMBER: IM SURF(56)

FILE NAME: pl6v071_wrk.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: B. KIPP
CONSTRUCTION APPROACH SIGNING SHEET 5

PLOT DATE: 09-DEC-2016
DRAWN BY: B. KIPP
CHECKED BY: M. FOWLER
SHEET 49 OF 54

1. THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. THE TRAFFIC CONTROL PLAN MUST BE SUBMITTED AS A CONSTRUCTION DRAWING IN ACCORDANCE WITH SECTION 105.03 OF THE VAOT 2011 STANDARD SPECIFICATIONS FOR CONSTRUCTION. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) WILL NOT BE PAID SEPARATELY BUT WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10, "TRAFFIC CONTROL". ALL WORK WILL NOT COMMENCE UNTIL THE TRAFFIC CONTROL PLAN HAS BEEN ACCEPTED AND APPROVED BY THE PROJECT MANAGER.

2. THE 2009 MUTCD, WITH REVISIONS, SHALL BE THE STANDARD FOR ALL TRAFFIC CONTROL DEVICES. EXISTING SIGNS, SIGNALS AND MARKINGS SHALL BE VALID UNTIL SUCH TIME AS THEY ARE REPLACED OR RECONSTRUCTED. WHEN NEW TRAFFIC CONTROL 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 THE MUTCD.

3. ADDITIONAL RAMP SIGNING MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

4. 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 VAOT STANDARDS. ALL ADJUSTING, RELOCATING, AND REMOVING OF THESE DEVICES AS DIRECTED BY THE ENGINEER SHALL ALSO BE INCLUDED. THE FOLLOWING ITEMS WILL BE PAID FOR SEPARATELY:

   630.10 - UNIFORMED TRAFFIC OFFICERS
   630.15 - FLAGGERS
   646.622 - TEMPORARY 6 INCH WHITE LINE, PAINT
   646.632 - TEMPORARY 6 INCH YELLOW LINE, PAINT
   646.662 - TEMPORARY 12 INCH WHITE LINE, PAINT
   646.682 - TEMPORARY 24 INCH STOP BAR, PAINT
   646.692 - TEMPORARY LETTER OR SYMBOL, PAINT
   646.76 - LINE STRIPING TARGETS

5. 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 ENGINEER. THESE SIGNS WILL BE PAID FOR UNDER ITEM 641.15, "PORTABLE CHANGEABLE MESSAGE SIGN". 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.

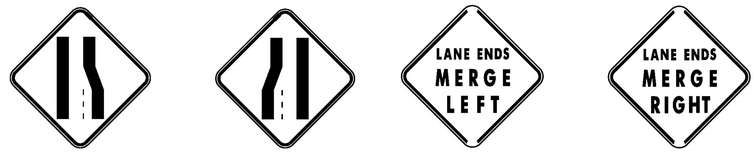
   THE PCMS SHOULD COMMUNICATE WHAT INFORMATION MOTORISTS NEED TO KNOW. UNNECESSARY INFORMATION SHOULD BE AVOIDED. MESSAGES SHOULD BE UPDATED PERIODICALLY TO DESCRIBE THE WORK ACTIVITY OCCURRING SO THAT THE PCMS CONTINUES TO COMMAND THE ATTENTION OF MOTORISTS.

6. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN APPROACH PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH VAOT STANDARDS. PAYMENT FOR PROVIDING THIS PACKAGE SHALL BE INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL". ADD G20-5aP "WORK ZONE" PLAQUE AND R2-6aP "FINES DOUBLED" PLAQUE TO SPEED LIMIT SIGNS (SEE FIG. 6F-3 OF MUTCD). OMIT VR-355 "FINES DOUBLED FOR SPEEDING IN WORK ZONE" SIGN. IF LANE CLOSURES ARE USED THEY SHOULD NOT EXCEED THREE MILES AT ANY GIVEN PERIOD OF TIME. THE ENGINEER MUST NOTIFY THE DMV IF LANE CLOSURES REDUCE THE TRAVEL LANE BELOW 15 FEET TO ASSURE THAT WIDE LOAD PERMITTED VEHICLES ARE DETOURED AROUND THE WORK ZONE.

7. 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 INTERSECTING HIGHWAYS.

8. REFER TO VT STATE STANDARDS, THE SPECIAL PROVISIONS, AND THE MUTCD FOR TEMPORARY TRAFFIC CONTROL SIGN DIMENSIONS AND COLORS.

9. SIGN W4-2 MAY BE REPLACED WITH W9-2:



W4-2 W9-2

10. IF INTERCHANGE RAMP CLOSURES ARE ANTICIPATED, THE TRAFFIC CONTROL PLAN SHALL DEPICT HOW ADVANCED WARNING TO THE TRAVELING PUBLIC WILL BE ACCOMMODATED DURING THE CLOSURE. ADVANCED WARNING SHALL BE DEFINED AS PROVIDING ADVANCED WARNING SIGNS, BOTH STATIC AND PCMS, THAT PROVIDE INFORMATION FOR MOTORISTS TO SAFELY UTILIZE THE REGIONALLY ACCEPTABLE OPPORTUNITIES FOR SEEKING AN ALTERNATE ROUTE PRIOR TO APPROACHING THE INTERCHANGE INVOLVING RAMP CLOSURES. THE TRAFFIC CONTROL PLAN WILL NEED TO BE SUBMITTED FOR REVIEW AND COMMENT TO THE PROJECT MANAGER A MINIMUM OF 14 CALENDAR DAYS AHEAD OF ANY PLANNED CLOSURE. APPROVAL OF THE PLAN SHALL BE IN PLACE 72 HOURS BEFORE WORK MAY BEGIN. INSTALLATION OF THE PCMS NETWORK SHALL BE DONE 48 HOURS BEFORE WORK MAY BEGIN. ELEMENTS OF THE PLAN SHALL INCLUDE BUT WILL NOT BE LIMITED TO THE LOCATION OF THE PCMS AND ASSOCIATED MESSAGES, ANY OTHER NECESSARY SIGNAGE, LOCATIONS FOR DEPLOYMENT OF UNIFORMED TRAFFIC OFFICERS AND FLAGGERS, AND SEQUENCING AND DURATION OF CLOSURE FOR EACH RAMP WITHIN THE RESPECTIVE INTERCHANGE. NO MORE THAN ONE INTERCHANGE PER WORK PERIOD MAY HAVE RAMP CLOSURES. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) SHALL NOT BE PAID SEPARATELY BUT WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10, TRAFFIC CONTROL.

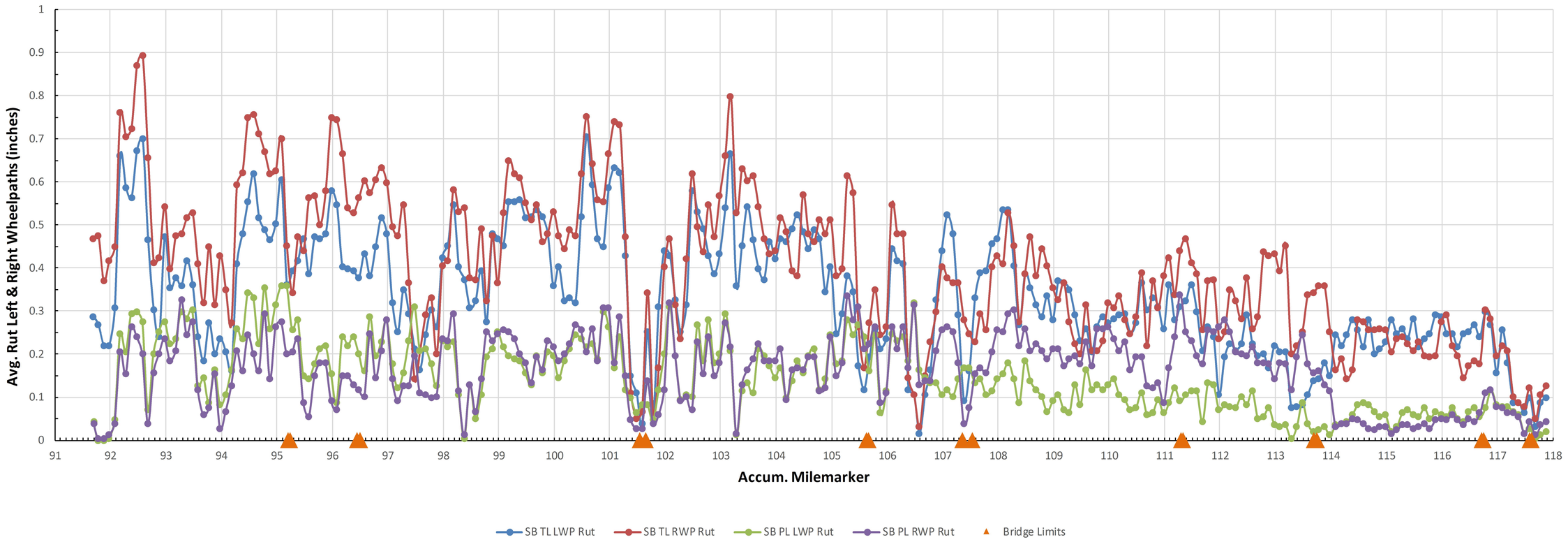
11. A SITE SPECIFIC LIGHTING PLAN WILL BE REQUIRED FOR ALL NIGHT TIME WORK ACTIVITIES.

PROJECT NAME: COLCHESTER-SWANTON
PROJECT NUMBER: IM SURF(56)

FILE NAME: pl6v07l_wrk.dgn PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP CHECKED BY: M. FOWLER
CONSTRUCTION APPROACH SIGNING SHEET NOTES SHEET 50 OF 54

I-89 SB Colchester-Swanton Precon Ruts

Profiled 5/12/2016



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PROJECT NUMBER:	IM SURF(56)
FILE NAME: pl6v07l_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
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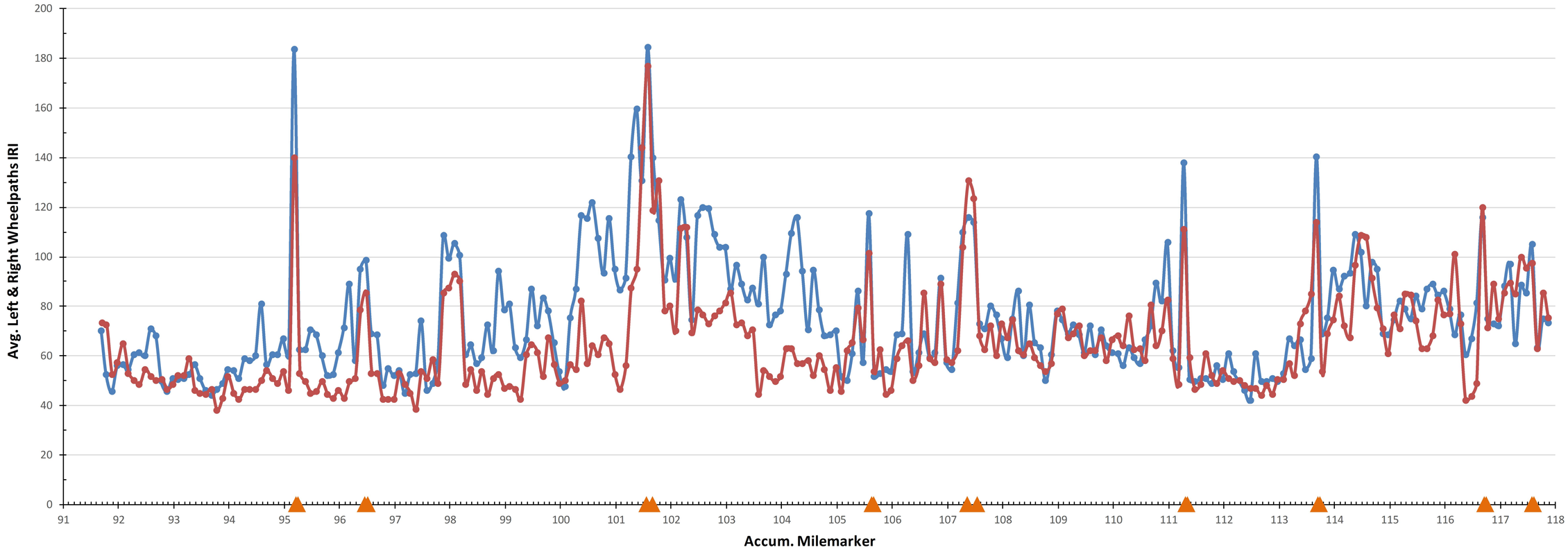
RUTTING DATA INFORMATION SHEET NB	SHEET 51 OF 54

I 89 Colchester-Swanton PreCon IRI

Profiled 5/12/2016

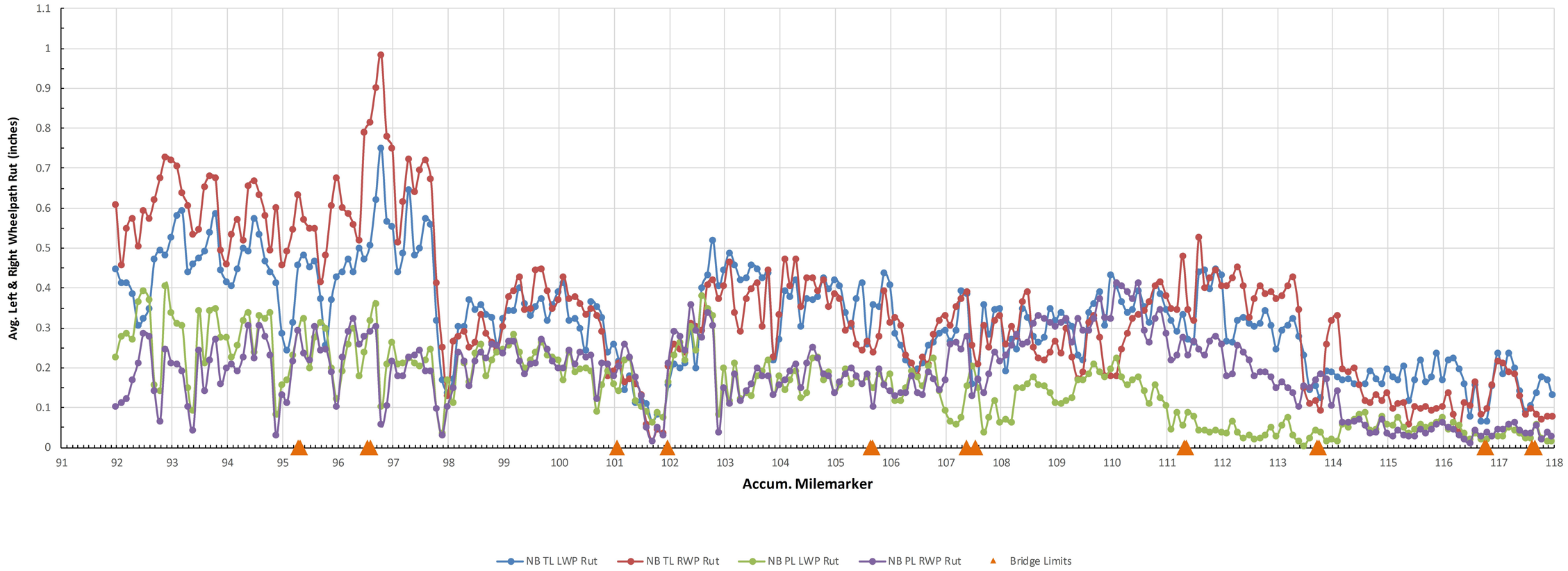
SB Travel Lane Avg. IRI = 75.2 SB Pass Lane Avg. IRI = 65.1



PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)

FILE NAME: p16v07I_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
ROUGHNESS DATA INFORMATION SHEET NB	SHEET 52 OF 54

I-89 NB Colchester-Swanton PreCon Ruts
Profiled 5/12/2016



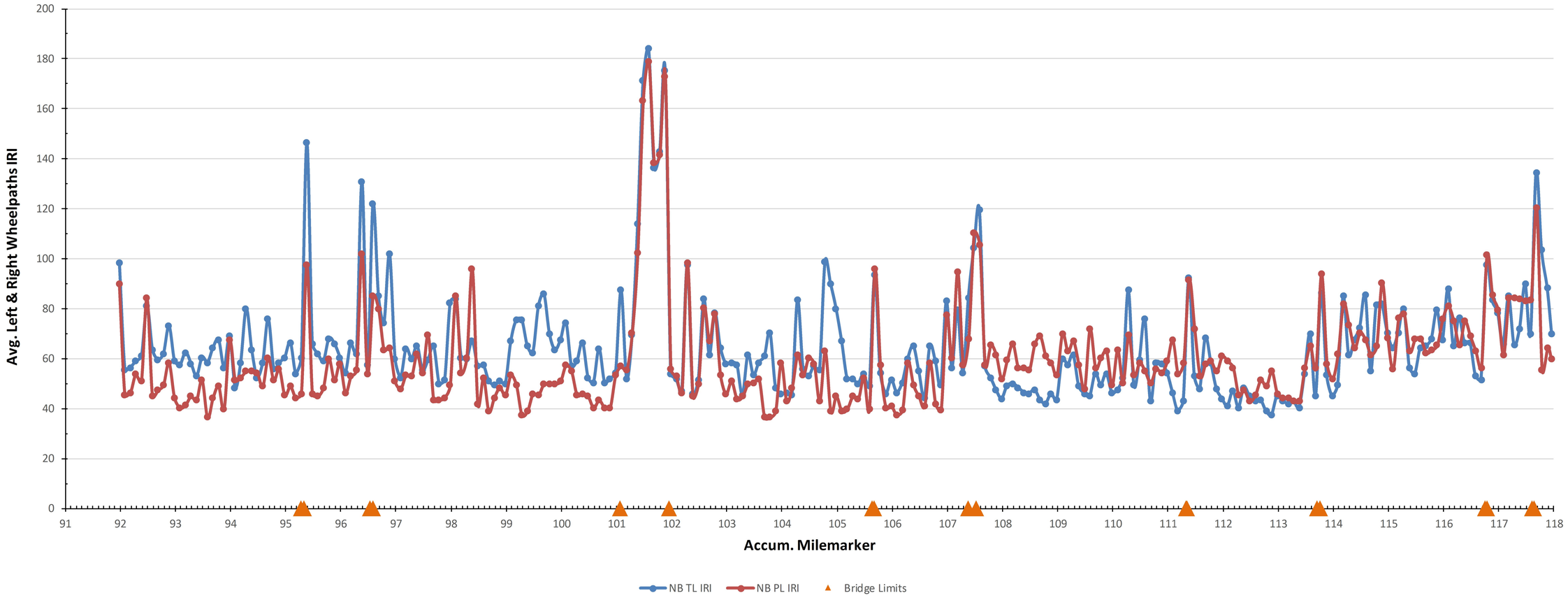
PROJECT NAME:	COLCHESTER-SWANTON
PROJECT NUMBER:	IM SURF(56)

FILE NAME: p16v071_wrk.dgn	PLOT DATE: 09-DEC-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: B. KIPP
DESIGNED BY: B. KIPP	CHECKED BY: M. FOWLER
RUTTING DATA INFORMATION SHEET SB	SHEET 53 OF 54

I 89 NB Colchester-Swanton PreCon IRI

Profiled 5/12/2016

NB Travel Lane Avg. IRI = 64.7 NB Pass Lane Avg. IRI = 60.0



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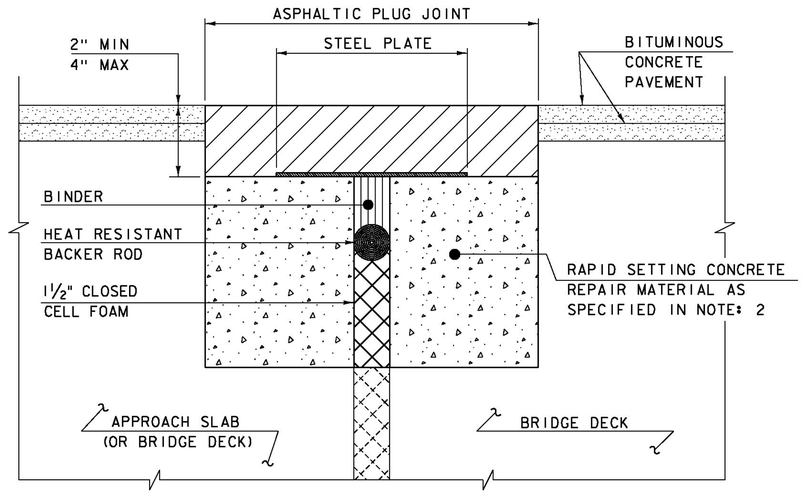
ROUGHNESS DATA INFORMATION SHEET SB	SHEET 54 OF 54



ASPHALTIC PLUG JOINT DETAIL - REHAB

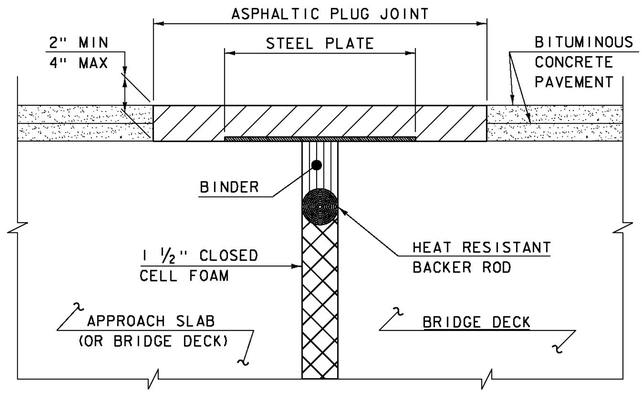
NOTES:

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 COARSE 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 COARSE AGGREGATE MEETING THE REQUIREMENTS OF SUBSECTION 780.04.

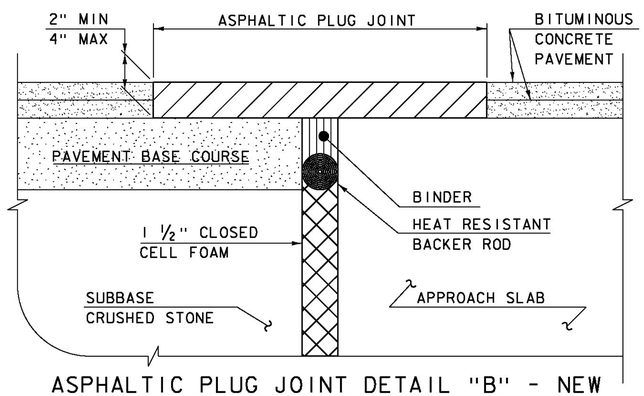
3. REINFORCING STEEL NOT SHOWN FOR CLARITY.

4. 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.



ASPHALTIC PLUG JOINT DETAIL "A" - NEW

NOTE:
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.



ASPHALTIC PLUG JOINT DETAIL "B" - NEW

ASPHALTIC PLUG JOINT NOTES

INSTALLATION:

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. PLACE PROPERLY SIZED HEAT RESISTANT BACKER ROD IN THE MOVEMENT GAP ALLOWING FOR 1" +/- OF BINDER ABOVE THE ROD.
5. HEAT AND PLACE THE BINDER MATERIAL AS RECOMMENDED BY THE MANUFACTURER.
6. IMMEDIATELY AFTER TOP COATING, CAST AN ANTI-SKID MATERIAL OVER THE JOINT TO REDUCE THE RISK OF TRACKING.

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.

DETAILS ON THIS SHEET ARE NOT TO SCALE.

REVISIONS	
MAY 7, 2010	APPROVED FOR USE BY VAOT STRUCTURES SECTION
AUGUST 29, 2011	ADD DETAIL "B" AND REV. NOTES

BRIDGE JOINT
ASPHALTIC PLUG

VERMONT AGENCY OF TRANSPORTATION
STRUCTURES - DIVISION

STRUCTURES DETAIL
SD-516.10