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- 49. BRIDGE JOINT ASPHALTIC PLUG-STRUCTURES DETAIL SD-516.10

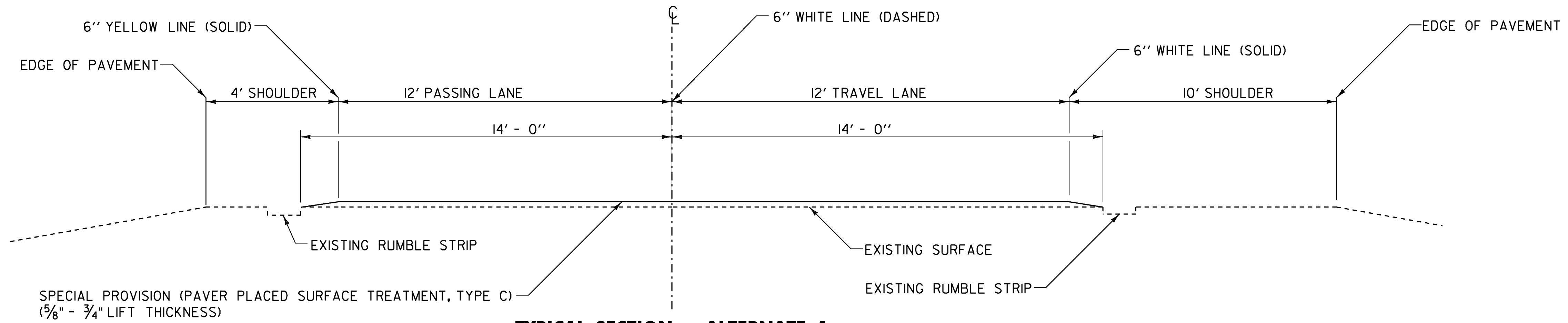
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**COMPOSITE  
INDEX OF  
SHEETS**

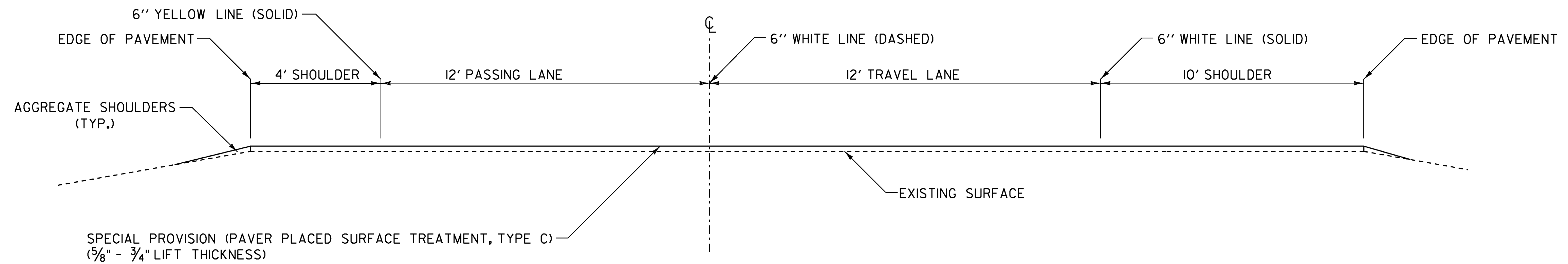
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 PROJECT NUMBER: IM SURF (30) & IM SURF (28)  
 FILE NAME: Ila024/Ila024.dgn PLOT DATE: 12-APR-2012  
 PROJECT LEADER: M. FOWLER DRAWN BY: PAVT MGMT  
 DESIGNED BY: PAVT MGMT CHECKED BY: PAVT MGMT  
 Ila024compInd.I SHEET 2 OF 49

# TYPICAL SECTION

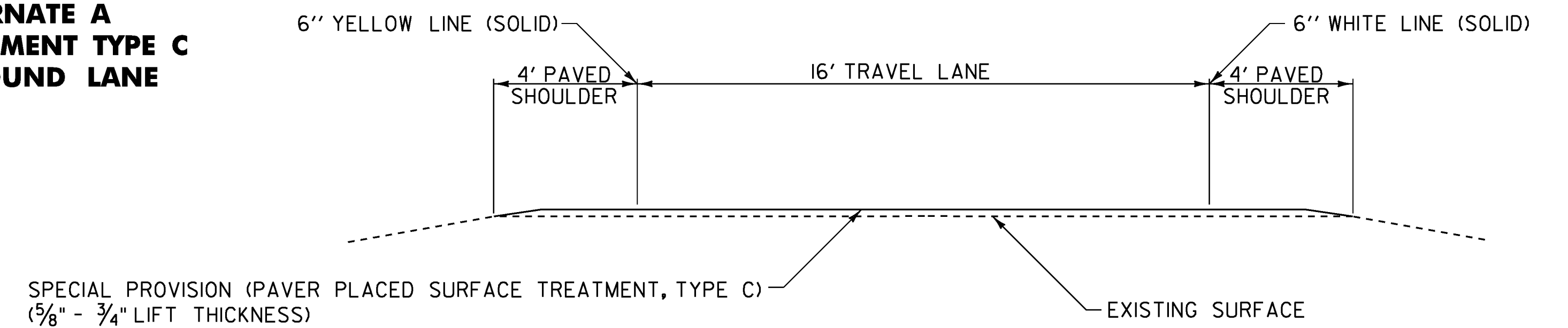


**TYPICAL SECTION - ALTERNATE A  
PAVER PLACED SURFACE TREATMENT TYPE C**

# TYPICAL SECTION WITHOUT RUMBLE STRIPS



**TYPICAL SECTION - ALTERNATE A  
PAVER PLACED SURFACE TREATMENT TYPE C  
MIRROR IMAGE FOR WESTBOUND LANE**



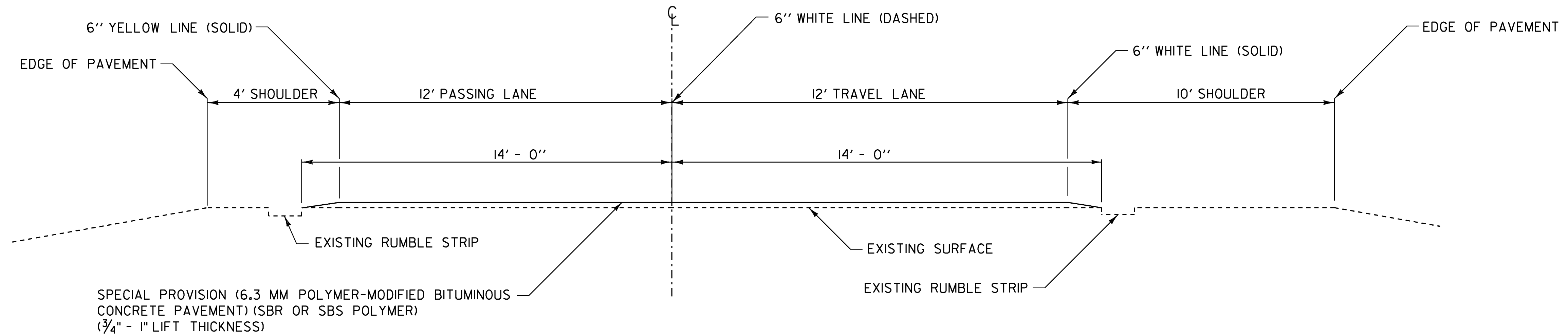
**TYPICAL RAMP SECTION**

NOT TO SCALE

**COMPOSITE  
ALTERNATE A  
TYPICAL  
SECTIONS**

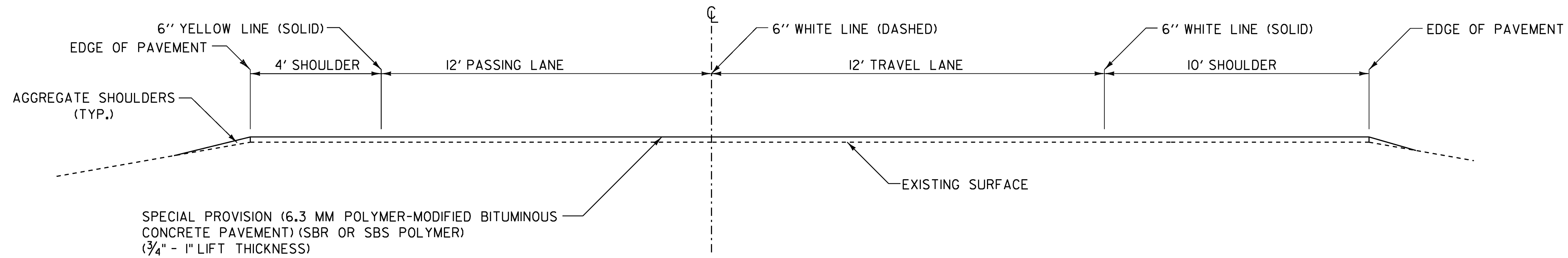
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PROJECT NUMBER: IM SURF (30) & IM SURF (28)	
FILE NAME: Ila024/Ila024COMPOSITE.dgn	PLOT DATE: 12-APR-2012
PROJECT LEADER: M. FOWLER	DRAWN BY: PAVT MGMT
DESIGNED BY: PAVT MGMT	CHECKED BY: PAVT MGMT
Ila024comp+yl.t	SHEET 3 OF 49

# TYPICAL SECTION

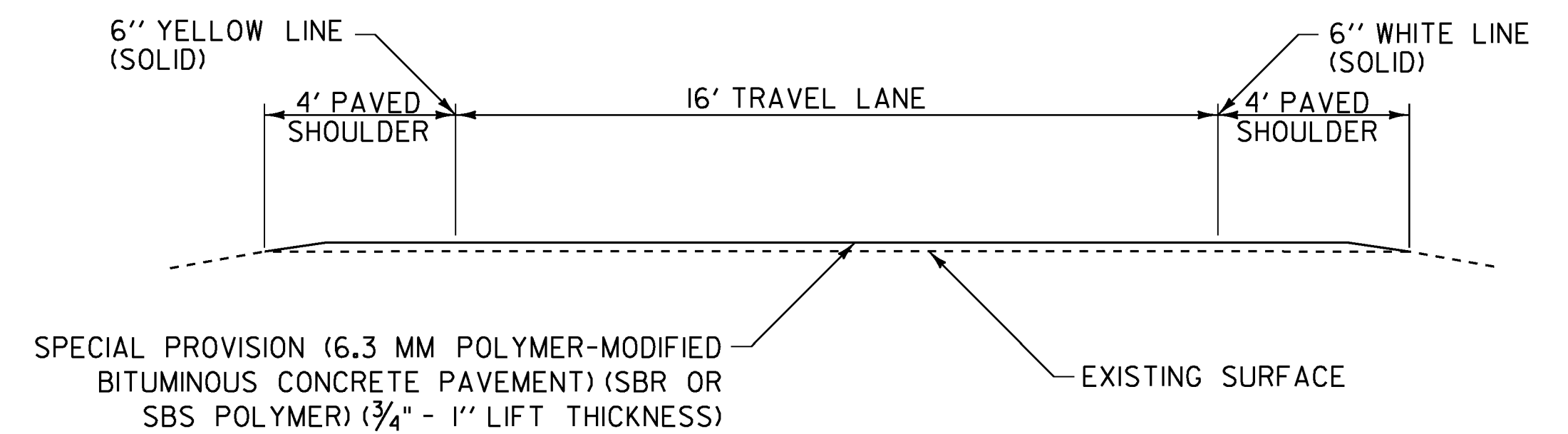


**TYPICAL SECTION - ALTERNATE B**  
**6.3 MM POLYMER-MODIFIED BITUMINOUS CONCRETE PAVEMENT**

# TYPICAL SECTION WITHOUT RUMBLE STRIPS



**TYPICAL SECTION - ALTERNATE B**  
**6.3 MM POLYMER-MODIFIED BITUMINOUS CONCRETE PAVEMENT**  
**MIRROR IMAGE FOR WESTBOUND LANE**



**TYPICAL RAMP SECTION**

**NOTES:**

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

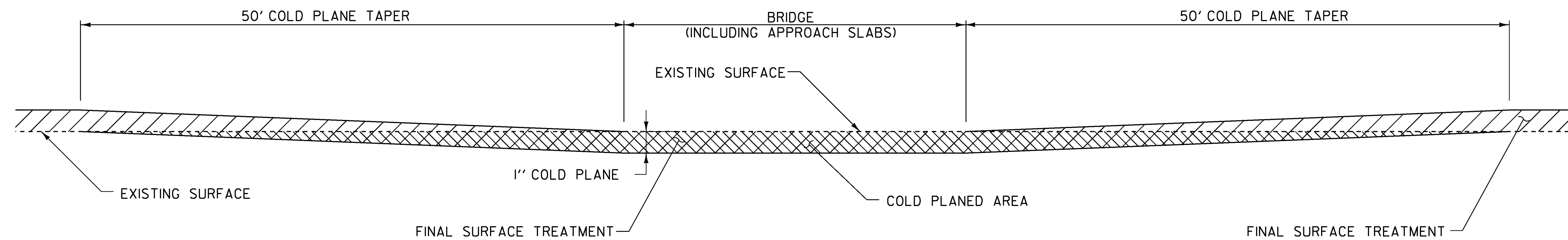
NOT TO SCALE

**COMPOSITE  
 ALTERNATE B  
 TYPICAL  
 SECTIONS**

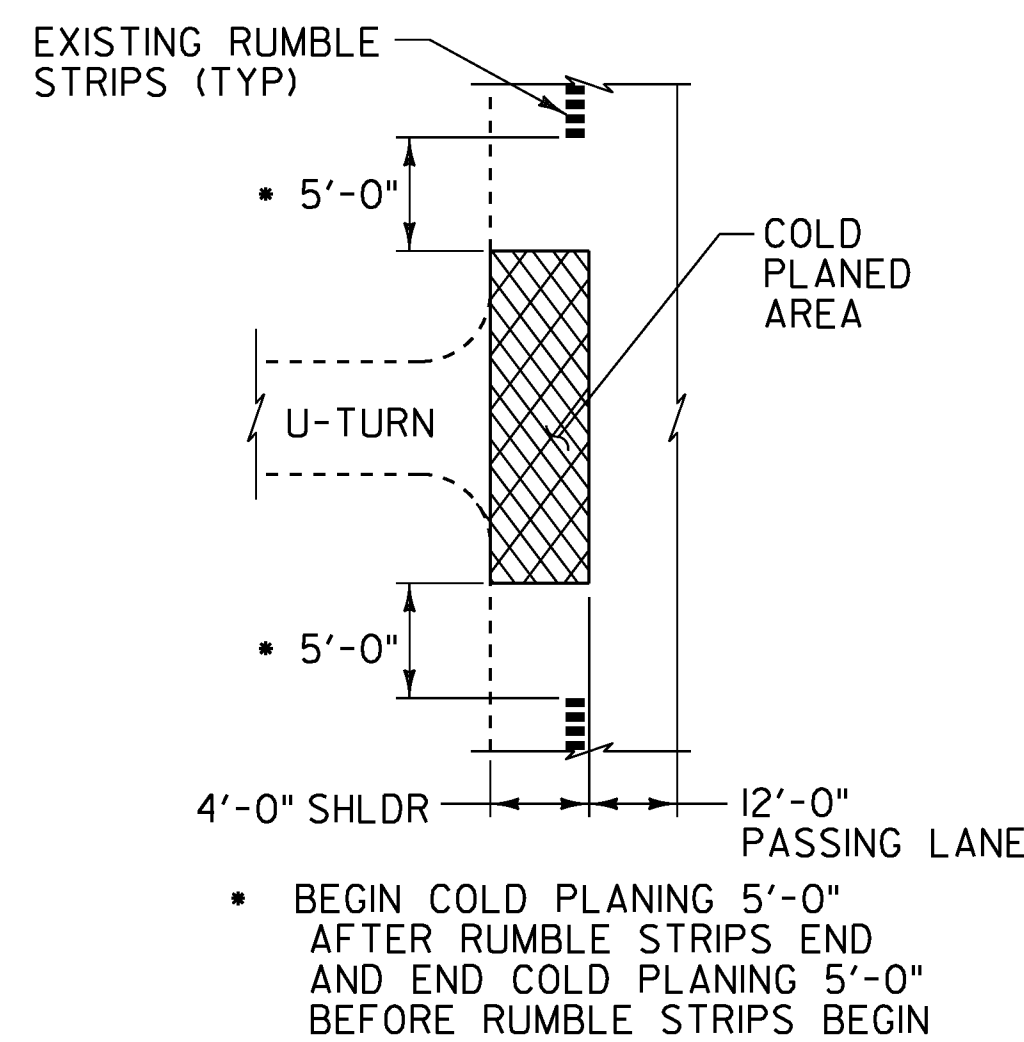
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PROJECT NUMBER: IM SURF (30) & IM SURF (28)	
FILE NAME: Ila024/Ila024COMPOSITE.dgn	PLOT DATE: 12-APR-2012
PROJECT LEADER: M. FOWLER	DRAWN BY: PAVT MGMT
DESIGNED BY: PAVT MGMT	CHECKED BY: PAVT MGMT
Ila024compty2.1	SHEET 4 OF 49



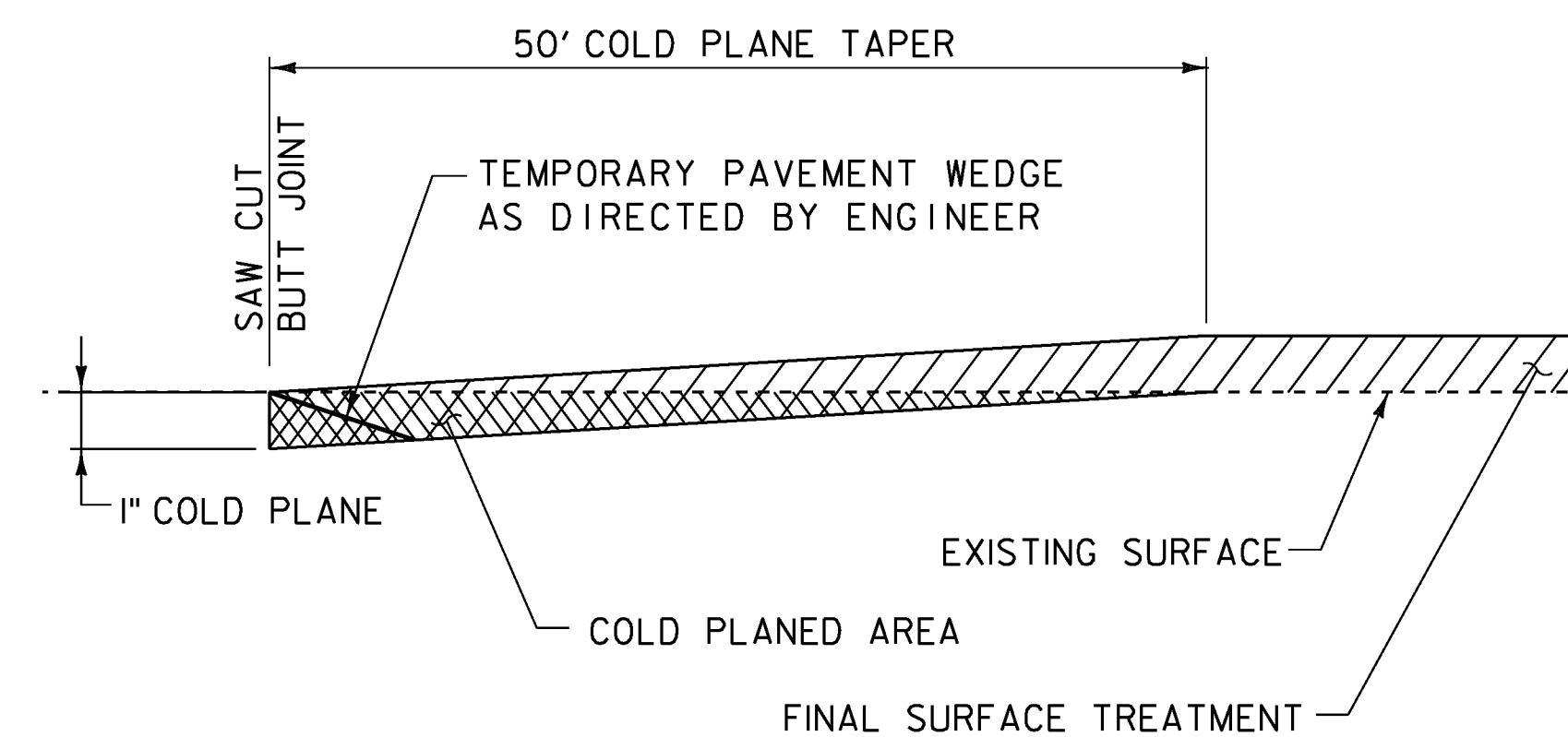
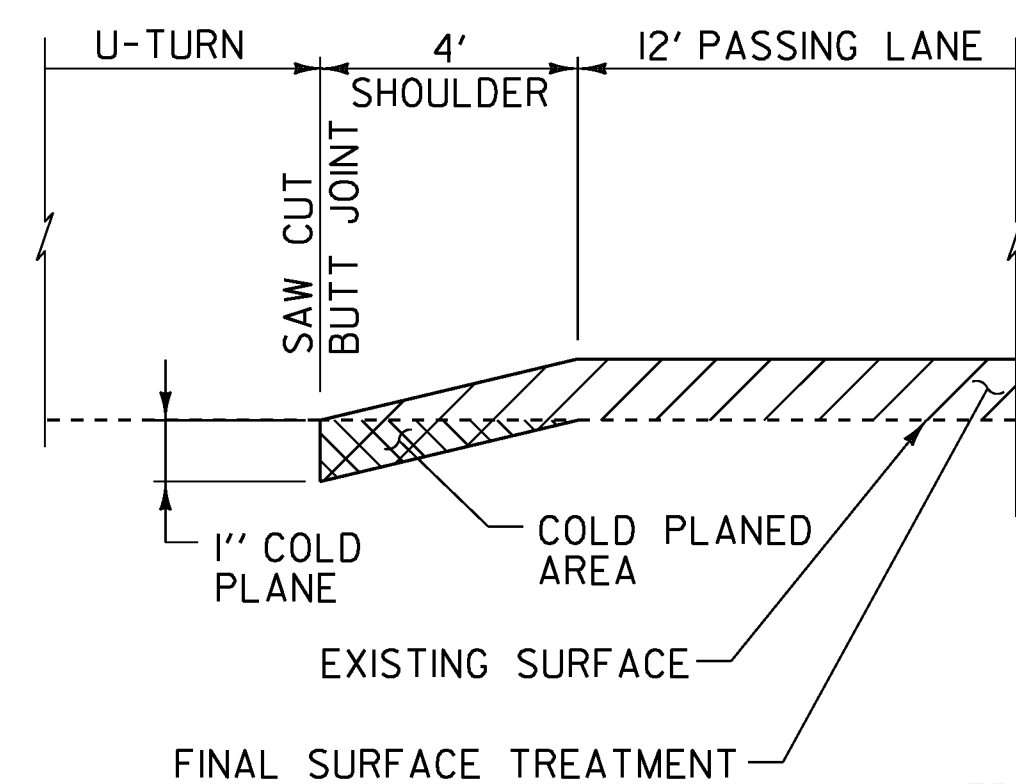




**BRIDGE COLD PLANE TYPICAL SECTION A-A**

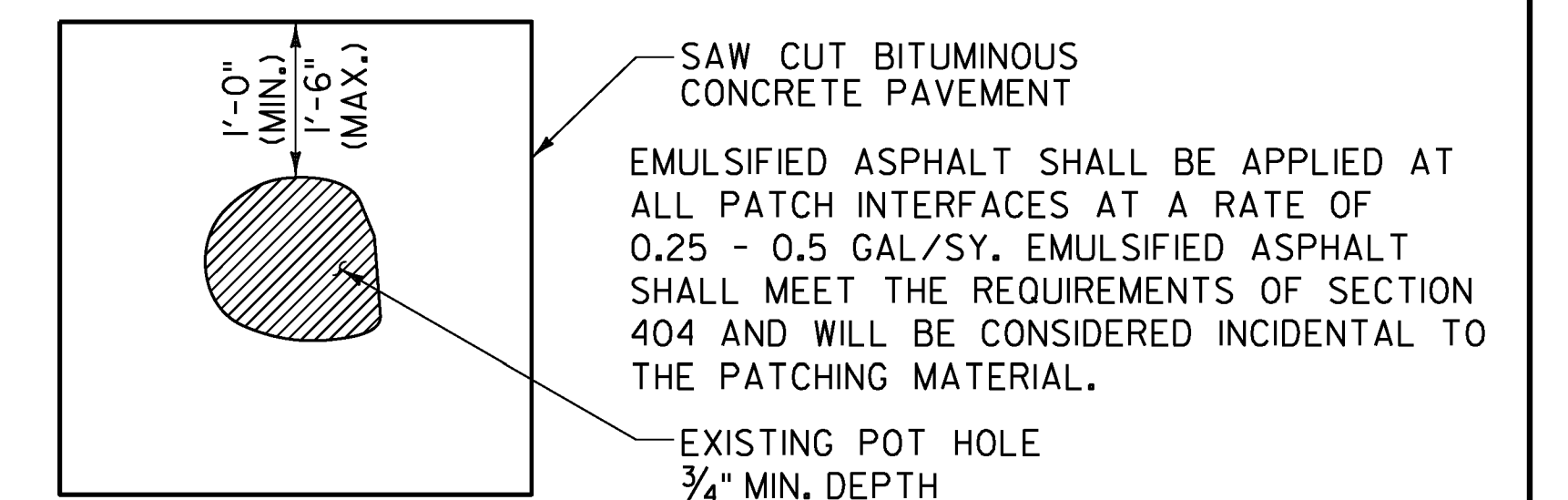


**COLD PLANE DETAIL AT U-TURNS**



**COLD PLANE DETAIL AT BEGIN /END PROJECT & RAMPS**

NOTES:  
1. SURFACE PREPARATION IS REQUIRED ON ALL RAMPS.



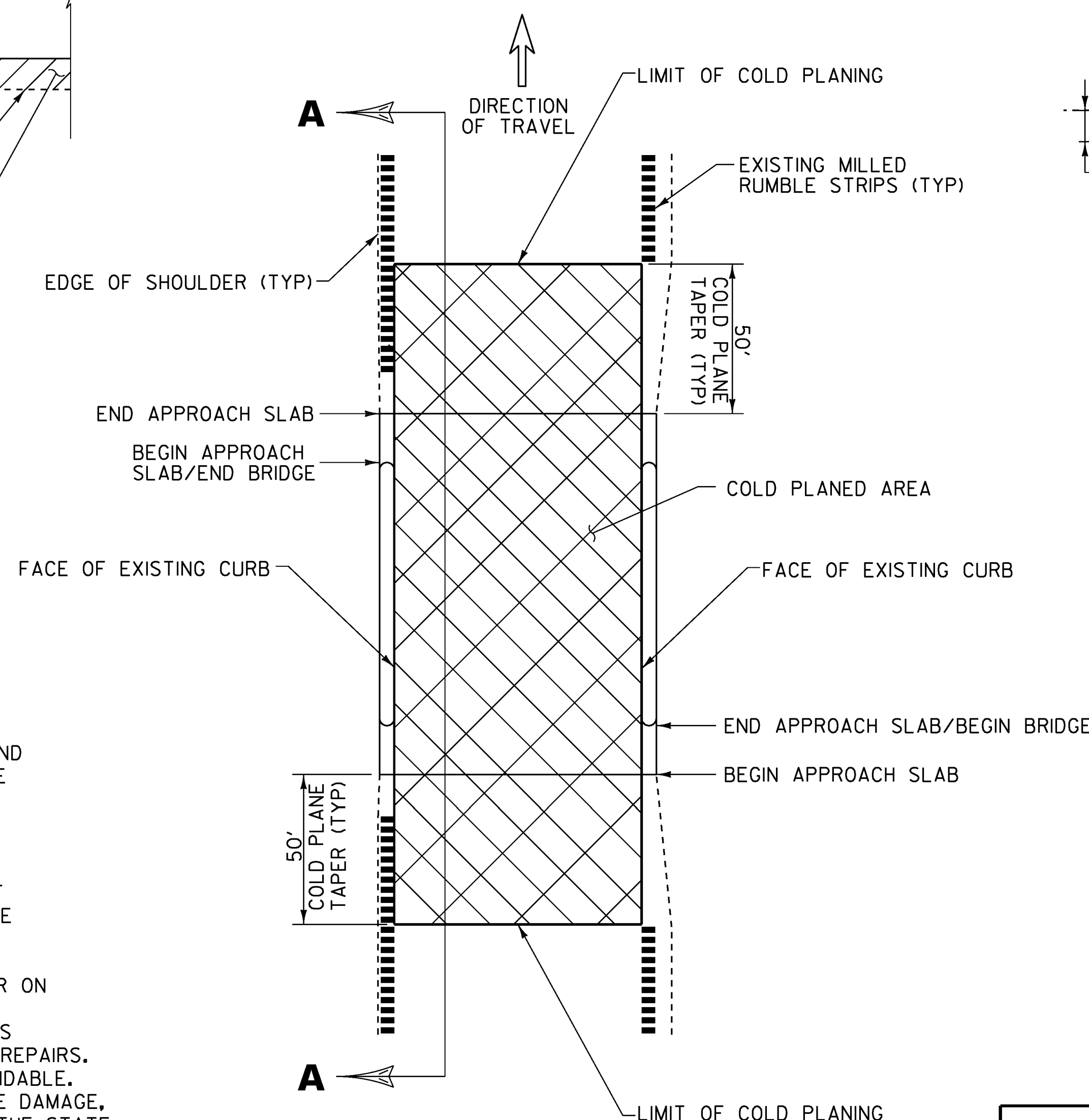
**TYPICAL POT HOLE REPAIR**  
NOT TO SCALE

**NOTES:**

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

**LEGEND**

 MILLED SURFACE



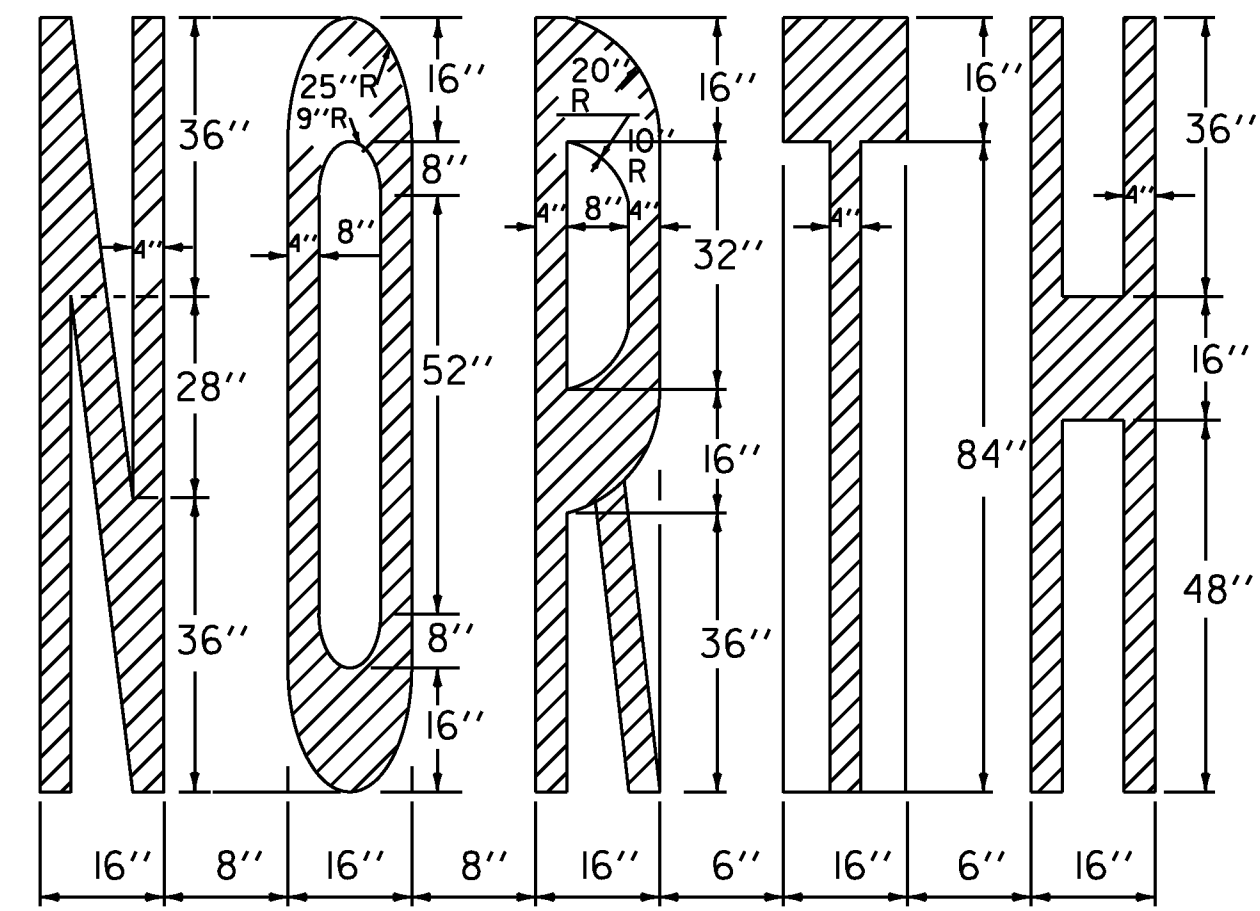
**BRIDGE COLD PLANE TYPICAL PLAN**

NOT TO SCALE

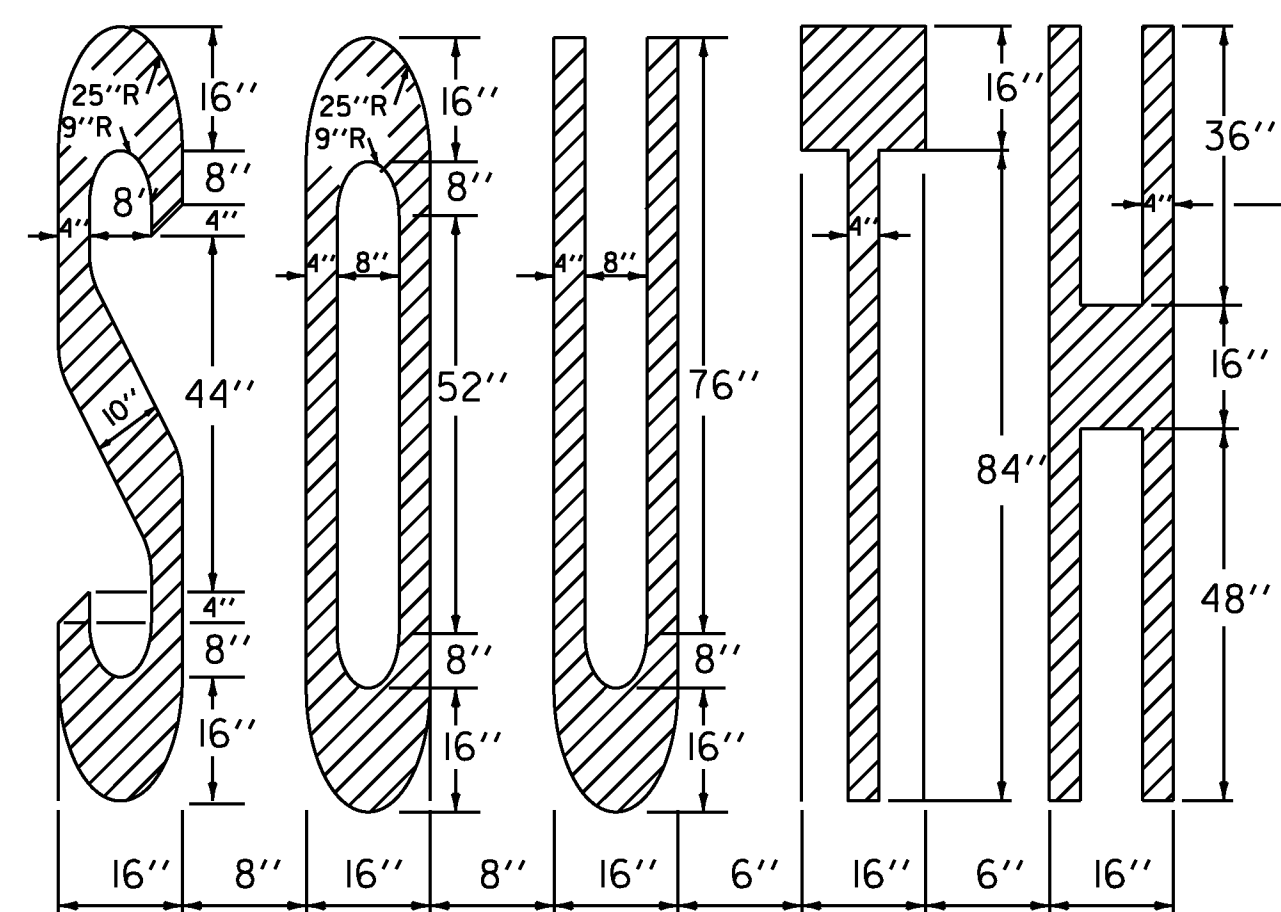
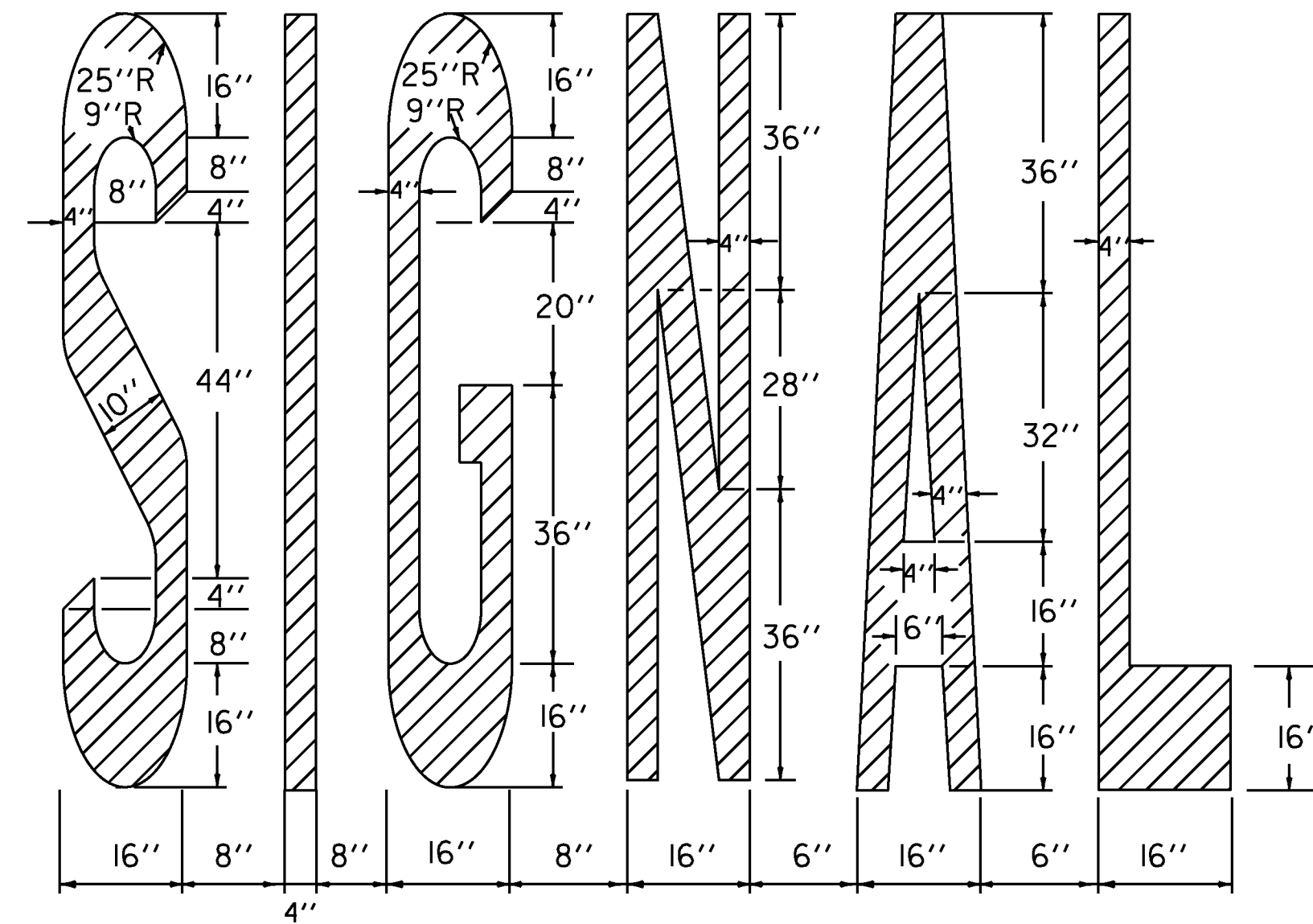
**COMPOSITE  
COLD PLANE  
DETAIL SHEET**

PROJECT NAME: BURLINGTON-SO. BURLINGTON & SWANTON-HIGHGATE	PLOT DATE: 12-APR-2012
PROJECT NUMBER: IM SURF (30) & IM SURF (28)	DRAWN BY: L. BULLOCK
FILE NAME: 11a024/11a024COMPOSITE.dgn	CHECKED BY: PAVT MGMT
PROJECT LEADER: M. FOWLER	SHEET 7 OF 49
DESIGNED BY: M. FOWLER	
11a024compd1	

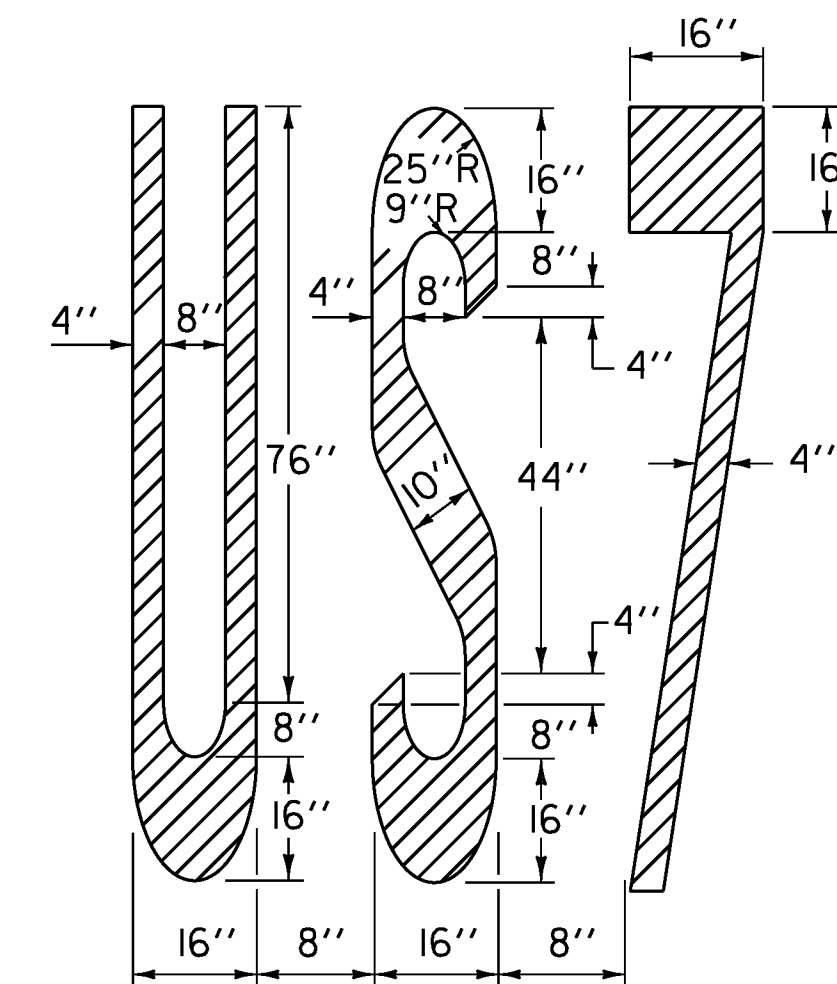




ADJUST TO AVAILABLE PAVEMENT WIDTH



ADJUST TO AVAILABLE PAVEMENT WIDTH



NOT TO SCALE

**COMPOSITE  
PAVEMENT  
MARKING  
DETAIL  
SHEET #2**

PROJECT NAME:	BURLINGTON-SO. BURLINGTON & SWANTON-HIGHGATE
PROJECT NUMBER:	IM SURF (30) & IM SURF (28)
FILE NAME:	IIA024/IIA024COMPOSITE.dgn
PROJECT LEADER:	M. FOWLER
DESIGNED BY:	L. BULLOCK
IPARM FILE NAME:	IIa024compmd2.i
PLOT DATE:	12-APR-2012
DRAWN BY:	L. BULLOCK
CHECKED BY:	PAVT MGMT
	SHEET 9 OF 49

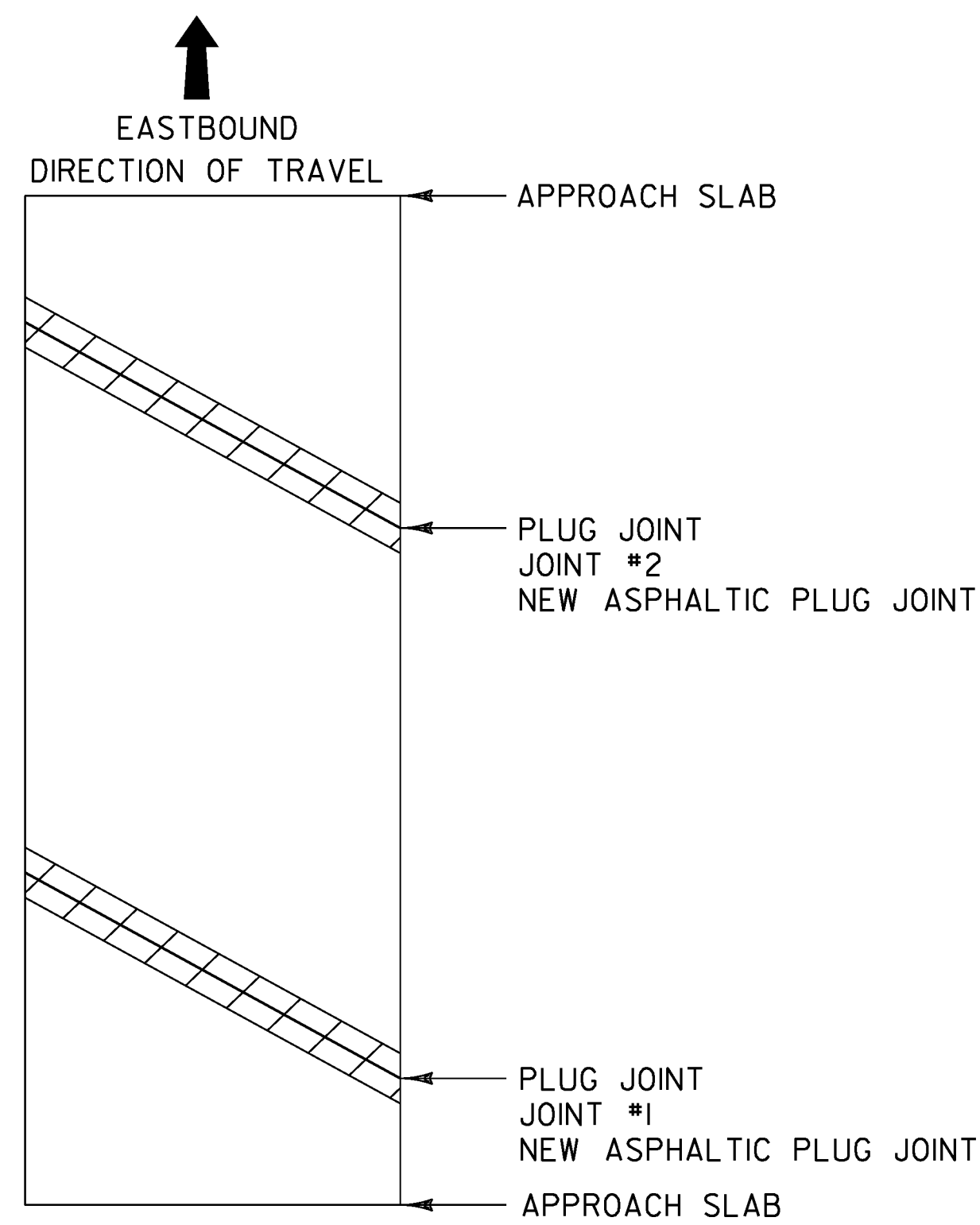
TRAFFIC CONTROL NOTES:

1. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR ITEM 641.10, TRAFFIC CONTROL.
2. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN APPROACH PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH VTRANS STANDARDS E-103, E-106 AND THE LATEST REVISION OF THE 2009 MUTCD. PAYMENT FOR PROVIDING THIS PACKAGE SHALL BE INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL.
3. THE BID PRICE FOR TRAFFIC CONTROL, ITEM 641.10, SHALL INCLUDE ALL APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, PORTABLE ARROW BOARDS, BARRIERS, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN VTRANS STANDARDS. ALL ADJUSTING, RELOCATING, AND REMOVING OF THESE DEVICES AS DIRECTED BY THE ENGINEER SHALL ALSO BE INCLUDED. THE FOLLOWING ITEMS WILL BE PAID FOR SEPARATELY:  
  
630.10 - UNIFORMED TRAFFIC OFFICERS  
630.15 - FLAGGERS  
646.610 - TEMPORARY 4 INCH YELLOW LINE  
646.620 - TEMPORARY 6 INCH WHITE LINE  
646.630 - TEMPORARY 6 INCH YELLOW LINE  
646.660 - TEMPORARY 12 INCH WHITE LINE  
646.680 - TEMPORARY 24 INCH STOP BAR  
646.690 - TEMPORARY LETTER OR SYMBOL  
646.700 - TEMPORARY CROSSWALK MARKING  
646.76 - LINE STRIPING TARGETS
4. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE PROVIDED FOR USE ALONG THIS PROJECT. THE PLACEMENT OF THESE UNITS AS WELL AS THE MESSAGE WILL BE APPROVED BY THE ENGINEER. THESE SIGNS WILL BE PAID FOR UNDER ITEM 641.15, PORTABLE CHANGEABLE MESSAGE SIGN.
5. FOR THE DURATION OF THE SWANTON-HIGHGATE IM SURF (28) PROJECT, THE CONTRACTOR SHALL POSITION A PCMS PRIOR TO I-89 EXITS 21 AND 22 NORTHBOUND WARNING NORTHBOUND MOTORISTS OF EXPECTED ROADWAY CONDITIONS AND REDUCED ROADWAY WIDTHS. FOR THE DURATION OF THE BURLINGTON-SO. BURLINGTON IM SURF (30) PROJECT, THE CONTRACTOR SHALL POSITION A PCMS PRIOR TO ENTERING I-189 FROM US ROUTE 7, KENNEDY DRIVE, DORSET ST., INTERSTATE 89 NORTHBOUND, AND INTERSTATE 89 SOUTHBOUND WARNING MOTORISTS OF EXPECTED ROADWAY CONDITIONS AND REDUCED ROADWAY WIDTHS.
6. 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.
7. 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.
8. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE, AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS.
9. REFER TO VT. STATE STANDARDS AND THE 2009 MUTCD FOR TEMPORARY TRAFFIC CONTROL SIGN COLORS.
10. DURING CONSTRUCTION IT WILL BE NECESSARY FOR THE CONTRACTOR TO MAINTAIN ONE-LANE TRAFFIC FOR EXTENDED PERIODS OF TIME. IN NO CASE SHALL THE PAVED WIDTH FOR ONE-LANE TRAFFIC, INCLUDING SHOULDERS, BE REDUCED TO LESS THAN 15 FEET IN WIDTH. THIS PAVED WIDTH SHALL REMAIN FREE OF OBSTRUCTIONS AND OBSTACLES AT ALL TIMES.
11. ADDITIONAL RAMP SIGNING MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER. PAYMENT SHALL BE INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL.
12. THE DISTANCE SHOWN ON THE "ROAD WORK NEXT XXX MILES" (G20-1) SHALL BE STATED TO THE NEAREST 1 MILE. REFER TO PART 6 OF THE 2009 MUTCD SECTION 6F.51. THESE SIGNS SHOULD BE SPACED APPROXIMATELY EVERY 2-3 MILES ALONG THE PROJECT AS A REMINDER TO THE TRAVELLING PUBLIC.
13. EXISTING SPEED LIMIT SIGNS SHALL BE COMPLETELY COVERED WHEN REDUCED SPEED SIGNS ARE POSTED. KEEP RECORDS WHEN POSTING THE WORK ZONE SPEED LIMIT FOR LEGAL PURPOSES; DOCUMENTING DATES, TIMES, AND LOCATIONS OF SIGNS. WHEN WORK ZONE SPEED LIMIT IS NOT IN USE ALL ASSOCIATED SIGNS SHALL BE COVERED, TURNED, AND OR LAID FLAT SO AS THE TRAVELLING PUBLIC CANNOT READ THESE SIGNS.
14. PORTABLE OR STATIONARY WORK ZONE SPEED LIMIT SIGNS SHOULD BE SPACED EVERY 1.5 TO 2 MILES WHERE APPLICABLE AS A REMINDER TO THE MOTORIST TRAVELLING THROUGH THE WORK ZONE THE SPEED THEY SHOULD BE TRAVELLING.
15. WHEN REDUCED REGULATORY SPEED LIMIT SIGNS ARE USED, THE RESUMPTION OF THE USUAL SPEED LIMIT SHALL BE INDICATED BY AN APPROPRIATE SPEED LIMIT SIGN AT THE END OF THE WORK ZONE.
16. COORDINATION WITH THE BORDER PATROL WILL BE REQUIRED FOR THE SWANTON-HIGHGATE IM SURF (28) PROJECT. CONTACT PORT DIRECTOR KEVIN COY AT 802-868-2778.

**COMPOSITE  
TRAFFIC  
CONTROL  
NOTES**

PROJECT NAME: BURLINGTON-SO. BURLINGTON & SWANTON-HIGHGATE	
PROJECT NUMBER: IM SURF (30) & IM SURF (28)	
FILE NAME: Ila024/Ila024COMPOSITE.dgn	PLOT DATE: 12-APR-2012
PROJECT LEADER: M. FOWLER	DRAWN BY: PAVT MGMT
DESIGNED BY: PAVT MGMT	CHECKED BY: PAVT MGMT
Ila024comp+cn.l	SHEET 10 OF 49





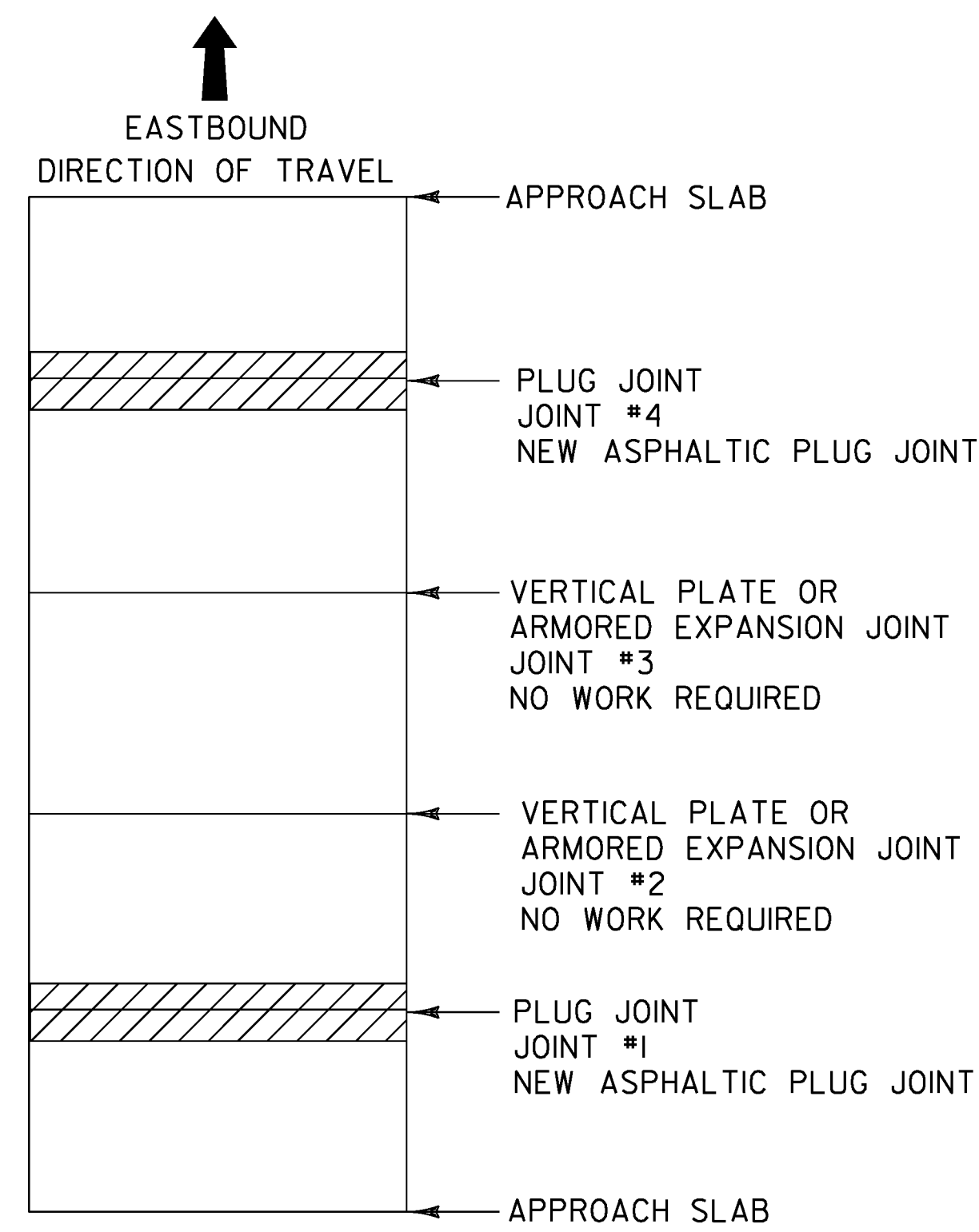
**BRIDGE 2E**

MM 0.320

LENGTH OF ASPHALTIC PLUG JOINTS:

JOINT #1 - 40'  
JOINT #2 - 40'

TOTAL = 80'



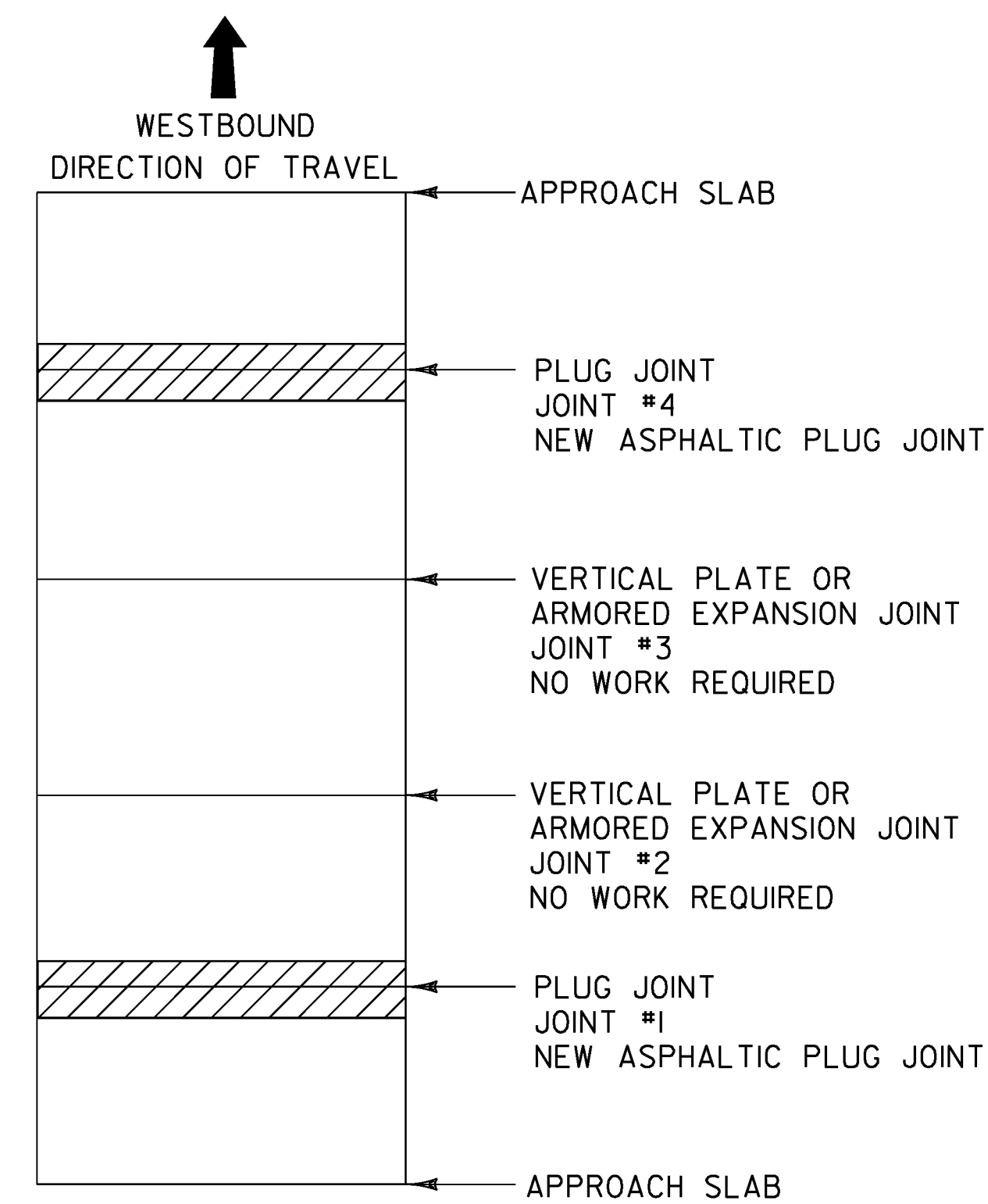
**BRIDGE 3E**

MM 1.116

LENGTH OF ASPHALTIC PLUG JOINTS:

JOINT #1 - 40'  
JOINT #2 - 40'

TOTAL = 80'



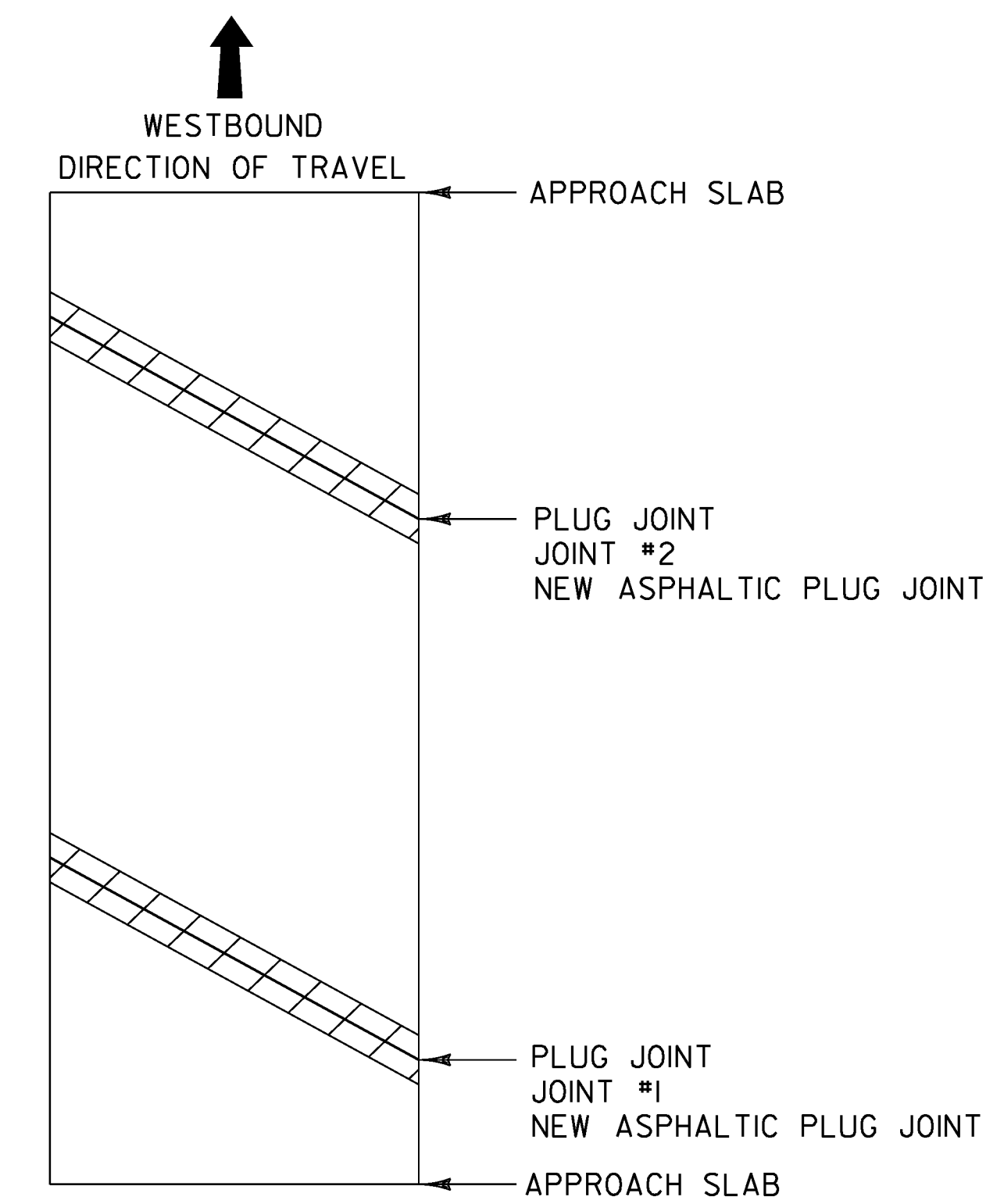
**BRIDGE 3W**

MM 1.126

LENGTH OF ASPHALTIC PLUG JOINTS:

JOINT #1 - 38'  
JOINT #2 - 38'

TOTAL = 76'



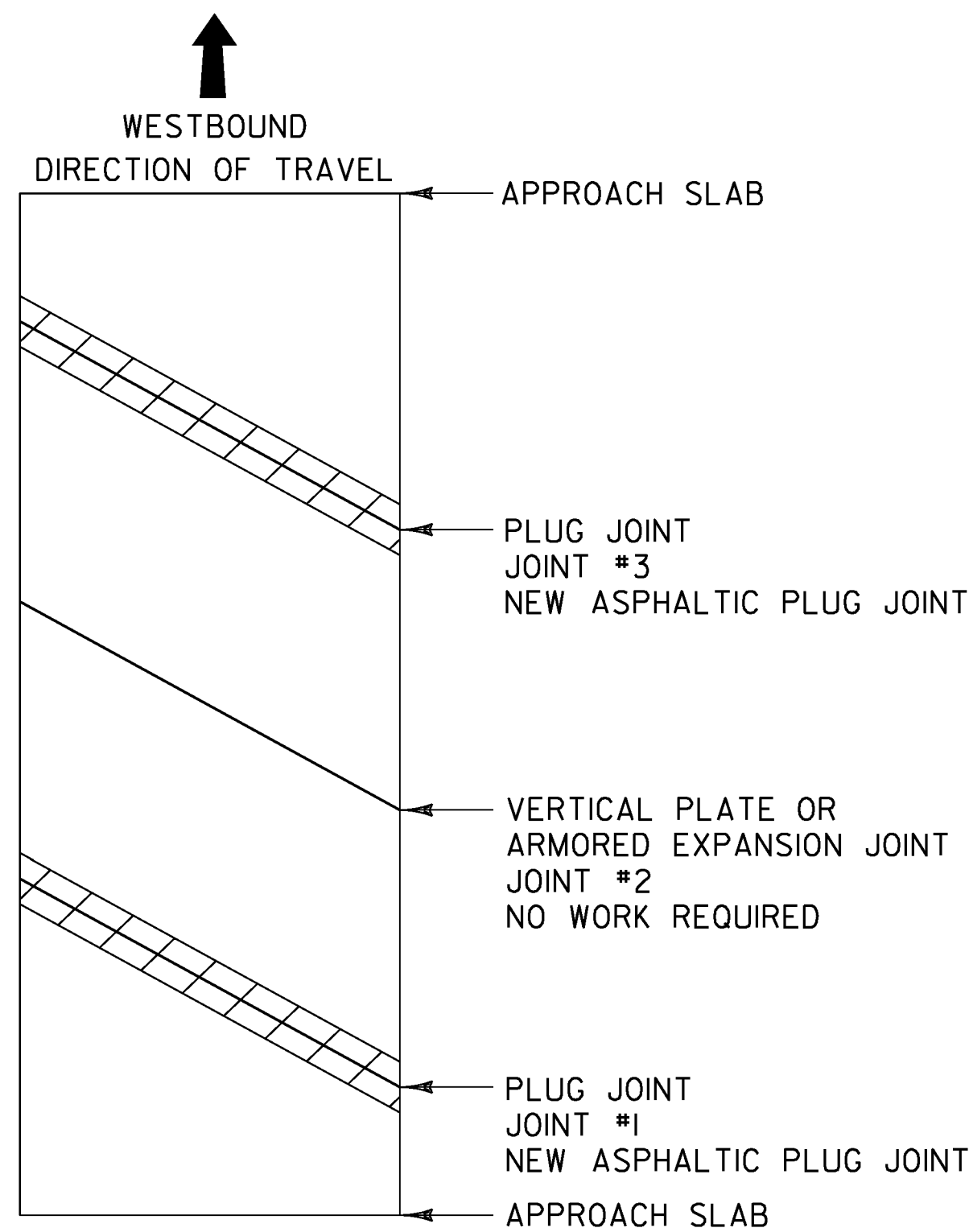
**BRIDGE 2W**

MM 0.324

LENGTH OF ASPHALTIC PLUG JOINTS:

JOINT #1 - 40'  
JOINT #2 - 40'

TOTAL = 80'



**BRIDGE NO.67-E RAMP E**

MM 0.097

LENGTH OF ASPHALTIC PLUG JOINTS:

JOINT #1 - 40'  
JOINT #2 - 40'

TOTAL = 80'

NOTES:

- BRIDGE 4W HAS A MEMBRANE PROJECT EXPECTED TO BE COMPLETED BY JUNE 29, 2012 AND THEREFORE IS NOT INCLUDED UNDER OF THIS PROJECT.
- SEE STRUCTURES DETAIL SD-516.10, BRIDGE JOINT ASPHALTIC PLUG FOR NOTES AND DETAILS.
- AN ADDITIONAL ASPHALTIC PLUG JOINT SHALL BE INSTALLED AT RAMP C MM 0.203 (SEE LAYOUT SHEET #4).

**BRIDGE  
DETAIL SHEET**

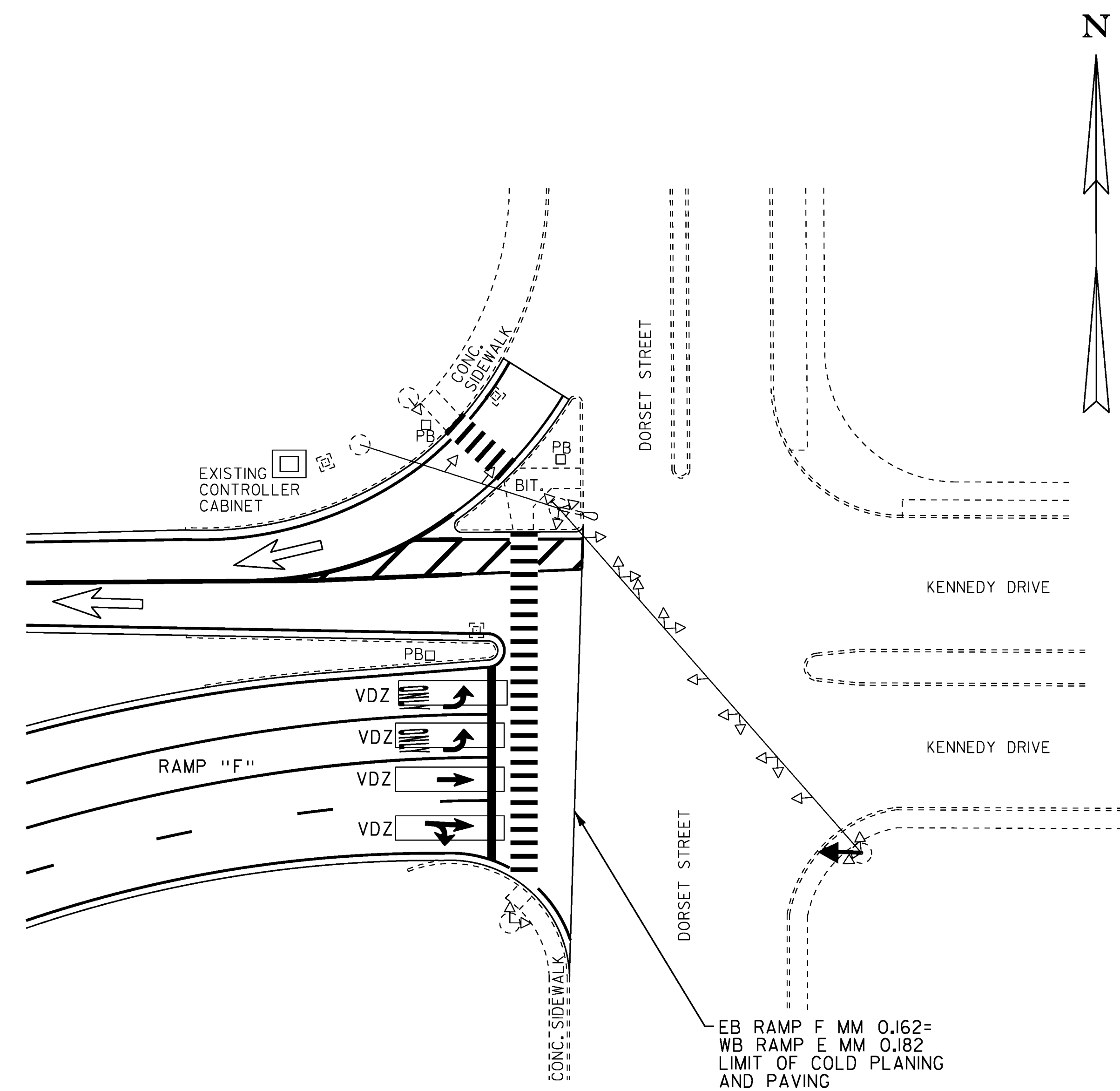
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PROJECT NUMBER:	IM SURF (30)
FILE NAME: Ila028.dgn	PLOT DATE: 12-APR-2012
PROJECT LEADER: M. FOWLER	DRAWN BY: L. BULLOCK
DESIGNED BY: L. BULLOCK	CHECKED BY: PAVT MGMT
IPARM FILE NAME: Ila028bdl.1	SHEET 12 OF 49

NOT TO SCALE

**VIDEO VEHICLE DETECTION SYSTEM NOTES:**

1. VIDEO VEHICLE DETECTORS SHALL BE PLACED SO THAT OCCLUSION IS MINIMIZED AND PHASING IS NOT AFFECTED.
2. VIDEO VEHICLE DETECTION AREAS SHALL EXTEND FIVE FEET PAST THE STOP BAR.
3. THE CONTRACTOR SHALL VERIFY IN THE FIELD THAT THERE IS ADEQUATE SPACE IN THE EXISTING CONDUIT AND CONTROLLER FOR VIDEO VEHICLE DETECTION CABLE AND EQUIPMENT.
4. ANY OTHER MISCELLANEOUS EQUIPMENT AND LABOR NECESSARY TO PROVIDE A FULLY FUNCTIONAL VIDEO VEHICLE DETECTION SYSTEM SHALL BE INCIDENTAL TO ITEM 900.620 SPECIAL PROVISION (VIDEO VEHICLE DETECTION SYSTEM).
5. ALL EXISTING VEHICLE DETECTOR LOOPS BEING REPLACED WITH VIDEO DETECTION ARE TO BE DISCONNECTED AT THE EXISTING PULLBOX LOCATIONS AND WIRING REMOVED BACK TO THE CABINET.
6. VIDEO VEHICLE DETECTION SYSTEM SHALL BE ONE OF THE MANUFACTURERS LISTED IN THE SPECIAL PROVISIONS OR APPROVED EQUAL.
7. EXISTING CONTROLLER TIMINGS SHALL BE RETAINED.
8. ALL EXISTING LOOP DETECTOR EQUIPMENT TO BE SALVAGED IS TO BE REMOVED AND RETURNED BY THE CONTRACTOR TO SOUTH BURLINGTON PUBLIC WORKS. COORDINATE THROUGH JUSTIN RABIDOUX AT 802-658-7961.
9. PRIOR TO COLD PLANING, THE CONTRACTOR SHALL DISCONNECT THE VEHICLE DETECTOR LOOP IN THE CONTROLLER CABINET AND CUT IT AT THE CURB OR SHOULDER. ONCE THE VEHICLE DETECTOR LOOP IS DISCONNECTED, THE SIGNAL PHASE THAT IT WAS CALLING SHALL BE SET ON MAXIMUM RECALL OR THE SIGNAL SHALL BE SET TO FLASH WHILE TRAFFIC IS BEING CONTROLLED BY A UNIFORMED TRAFFIC OFFICER. DETECTOR AND SIGNAL WORK SHALL BE INCIDENTAL TO PAY ITEM 900.620 SPECIAL PROVISION (VIDEO VEHICLE DETECTION SYSTEM). UNIFORMED TRAFFIC OFFICERS WILL BE PAID FOR UNDER CONTRACT ITEM 630.10, UNIFORMED TRAFFIC OFFICERS.
10. ALL TRAFFIC SIGNAL CONDUIT SHALL BE SCHEDULE 80 PVC.
11. ALL TRAFFIC SIGNAL CONDUIT WORK SHALL PERFORMED IN ACCORDANCE WITH VTRANS STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011, SECTION 678.
12. A UNIFORMED TRAFFIC OFFICER WITH A BLUE LIGHT SHALL BE PRESENT DURING ALL LANE CLOSURES.
13. ALL ELECTRICAL WIRING SHALL BE DONE BY A LICENSED ELECTRICIAN AND OVERSEEN BY A MASTER ELECTRICIAN.

LIST OF MAJOR EQUIPMENT	QUANTITY
ITEM 900.620 SPECIAL PROVISION (VIDEO VEHICLE DETECTION SYSTEM) (I-189 @ DORSET ST.)	1
VIDEO VEHICLE DETECTION CAMERAS (TO BE INCIDENTAL TO ITEM 900.620, SPECIAL PROVISION (VIDEO VEHICLE DETECTION SYSTEM) (I-189 @ DORSET ST.)	1



**LEGEND**

- NEW TRAFFIC CONTROL BOX
- EXISTING STRAIN POLE
- EXISTING MAST ARM
- VIDEO DETECTION ZONE
- VIDEO CAMERA
- EXISTING OVERHEAD SIGNAL

**NOT TO SCALE**

**VIDEO VEHICLE DETECTION SYSTEM**

PROJECT NAME: BURLINGTON-SO. BURLINGTON  
 PROJECT NUMBER: IM SURF (30)  
 FILE NAME: Ila028/Ila028.dgn  
 PROJECT LEADER: M. FOWLER  
 DESIGNED BY: L. BULLOCK  
 Ila028vid1.t

PLOT DATE: 12-APR-2012  
 DRAWN BY: L. BULLOCK  
 CHECKED BY: M. FOWLER  
 SHEET 13 OF 49





**BEGIN IM SURF(30) INTERSTATE 189**  
**RAMP E MM 0.160 = I-189 EB MM 0.000**

**TEMPORARY 6" YELLOW LINE**  
 I-189 EB MM 0.000 TO I-189 EB MM 0.075, SOLID LT.  
 RAMP A MM 0.027 TO RAMP A MM 0.050, SOLID LT.  
 RAMP E MM 0.030 TO RAMP E MM 0.160, SOLID LT.

**6" YELLOW LINE**  
 RAMP A MM 0.027 TO RAMP A MM 0.050, SOLID LT.  
 RAMP E MM 0.030 TO RAMP E MM 0.160, SOLID LT.  
 I-189 EB MM 0.000 TO I-189 EB MM 0.075, SOLID LT.

**TEMPORARY 6" WHITE LINE**  
 I-189 EB MM 0.000 TO I-189 EB MM 0.075, SOLID RT.  
 I-189 EB MM 0.013 TO I-189 EB MM 0.075, DASHED CENTERLINE  
 RAMP A MM 0.027 TO RAMP A MM 0.050, SOLID RT.  
 RAMP A MM 0.027 TO RAMP A MM 0.040, SOLID CENTERLINE  
 RAMP A MM 0.040 TO RAMP A MM 0.050, DASHED CENTERLINE  
 RAMP E MM 0.030 TO RAMP E MM 0.160, SOLID RT.

**6" WHITE LINE**  
 I-189 EB MM 0.000 TO I-189 EB MM 0.075, SOLID RT.  
 I-189 EB MM 0.013 TO I-189 EB MM 0.075, DASHED CENTERLINE  
 RAMP A MM 0.027 TO RAMP A MM 0.050, SOLID RT.  
 RAMP A MM 0.027 TO RAMP A MM 0.040, SOLID CENTERLINE  
 RAMP A MM 0.040 TO RAMP A MM 0.050, DASHED CENTERLINE  
 RAMP E MM 0.030 TO RAMP E MM 0.160, SOLID RT.

\*MATCH EXISTING CONDITIONS

NOTES: 1) FOR STRIPING DETAILS AT THE GORES,  
 SEE VAOT STANDARDS E-191 & E-192

2) DIRECTION OF TRAVEL →

3) EW= EXISTING ROADWAY WIDTH

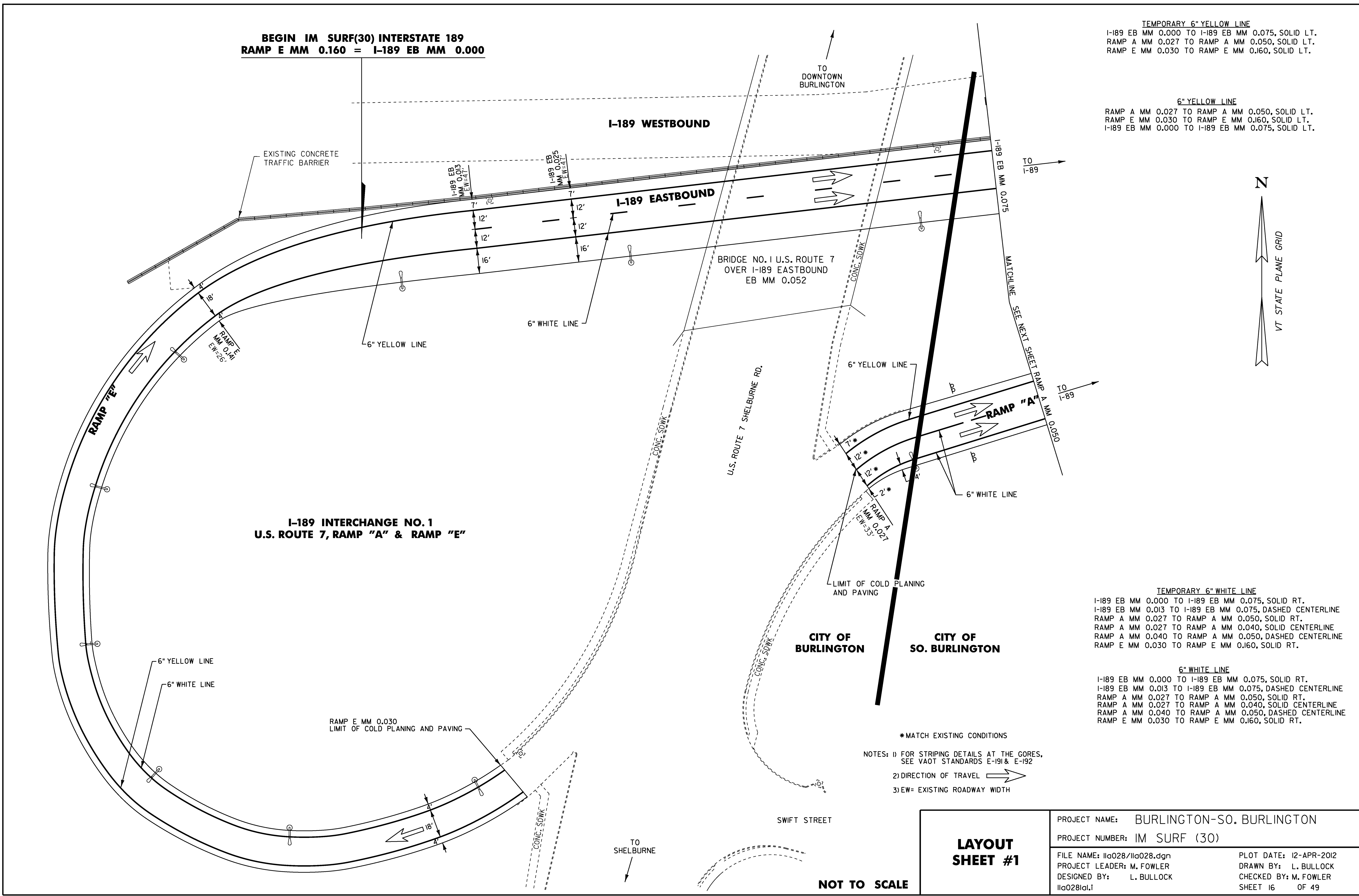
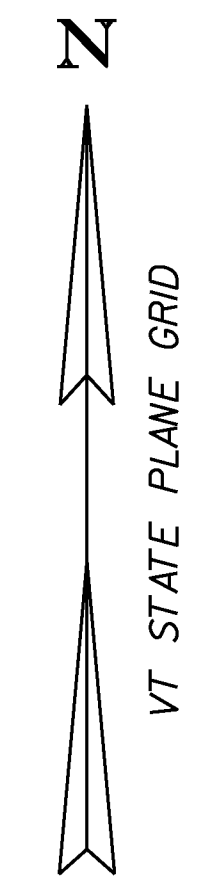
**LAYOUT  
 SHEET #1**

PROJECT NAME: BURLINGTON-SO. BURLINGTON

PROJECT NUMBER: IM SURF (30)

FILE NAME: Ila028/Ila028.dgn  
 PROJECT LEADER: M. FOWLER  
 DESIGNED BY: L. BULLOCK  
 Ila028Ia1.1

PLOT DATE: 12-APR-2012  
 DRAWN BY: L. BULLOCK  
 CHECKED BY: M. FOWLER  
 SHEET 16 OF 49



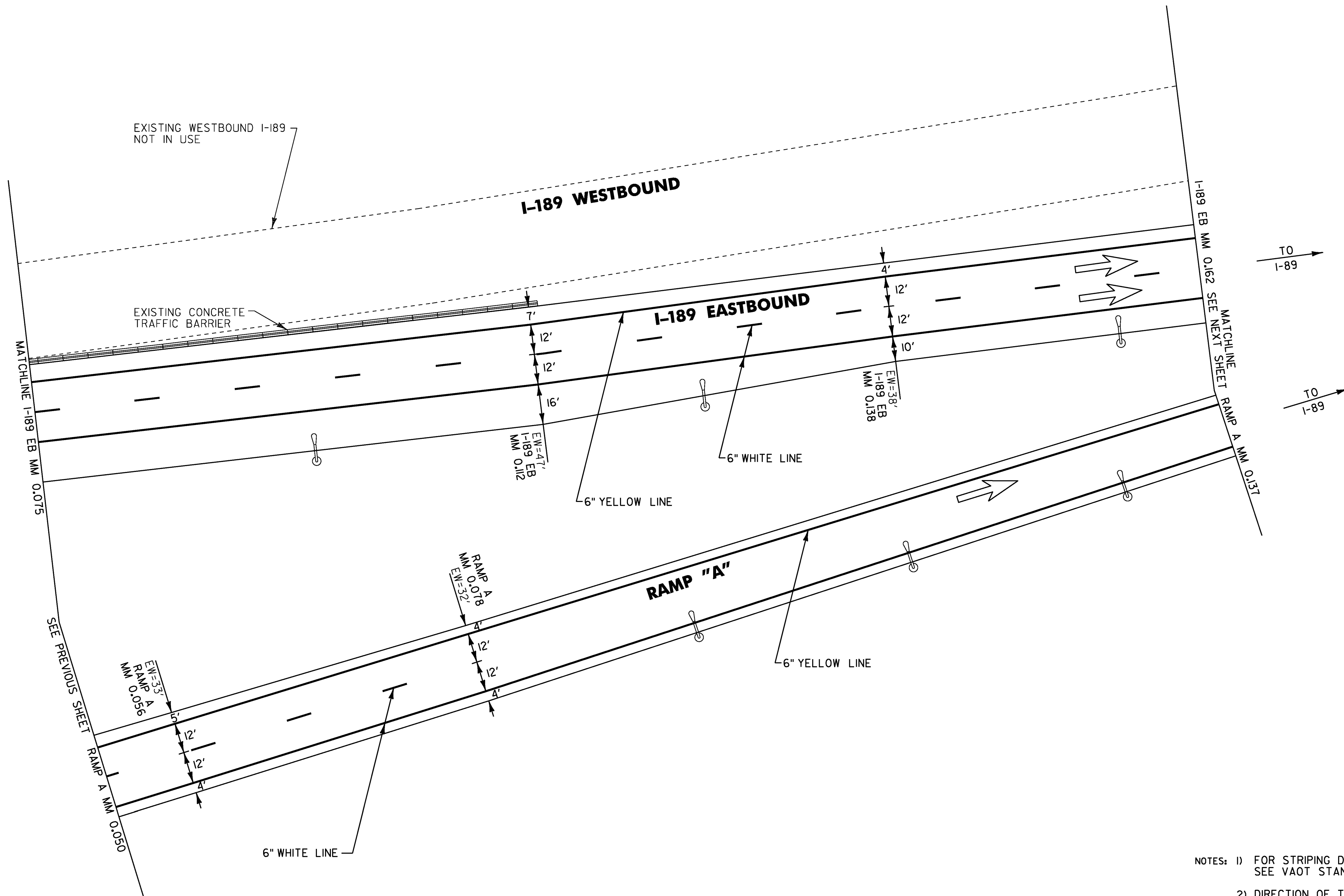
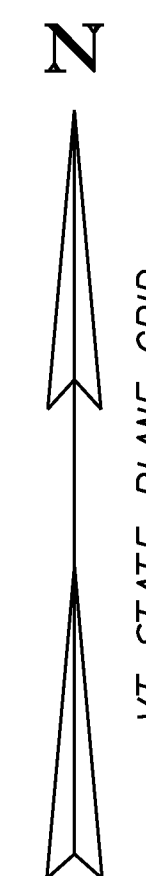
**NOT TO SCALE**

**TEMPORARY 6" WHITE LINE**  
 I-189 EB MM 0.075 TO I-189 EB MM 0.162, SOLID RT./DASHED CENTERLINE  
 RAMP A MM 0.050 TO RAMP A MM 0.137, SOLID RT.  
 RAMP A MM 0.050 TO RAMP A MM 0.078, DASHED CENTERLINE

**6" WHITE LINE**  
 I-189 EB MM 0.075 TO I-189 EB MM 0.162, SOLID RT./DASHED CENTERLINE  
 RAMP A MM 0.050 TO RAMP A MM 0.137, SOLID RT.  
 RAMP A MM 0.050 TO RAMP A MM 0.078, DASHED CENTERLINE

**TEMPORARY 6" YELLOW LINE**  
 I-189 EB MM 0.075 TO I-189 EB MM 0.162, SOLID LT.  
 RAMP A MM 0.050 TO RAMP A MM 0.137, SOLID LT.

**6" YELLOW LINE**  
 I-189 EB MM 0.075 TO I-189 EB MM 0.162, SOLID LT.  
 RAMP A MM 0.050 TO RAMP A MM 0.137, SOLID LT.

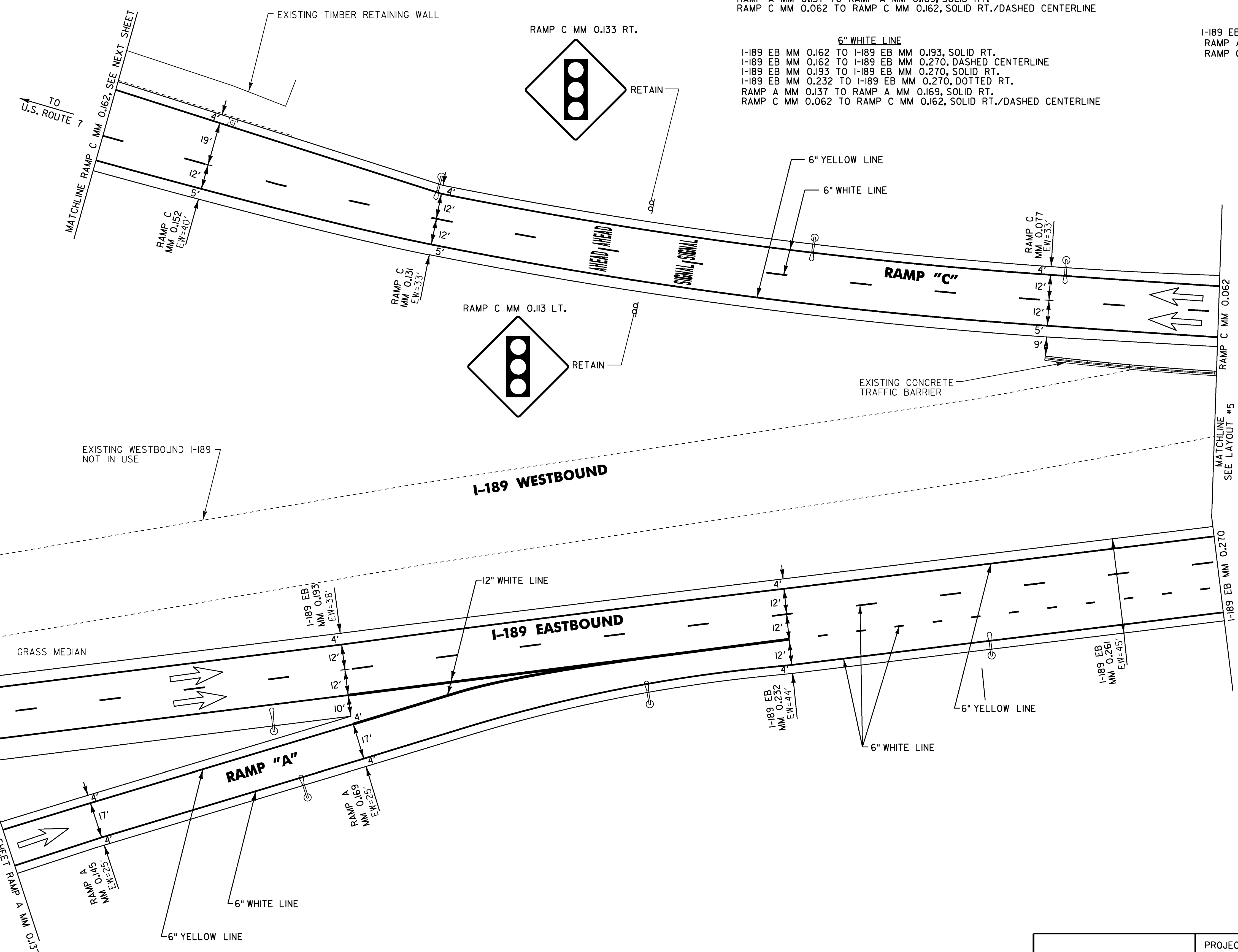


- NOTES: 1) FOR STRIPING DETAILS AT THE GORES, SEE VAOT STANDARDS E-191 & E-192  
 2) DIRECTION OF TRAVEL   
 3) EW= EXISTING ROADWAY WIDTH

**LAYOUT SHEET #2**

NOT TO SCALE

PROJECT NAME: BURLINGTON-SO. BURLINGTON	
PROJECT NUMBER: IM SURF (30)	
FILE NAME: Ila028/Ila028.dgn	PLOT DATE: 12-APR-2012
PROJECT LEADER: M. FOWLER	DRAWN BY: L. BULLOCK
DESIGNED BY: L. BULLOCK	CHECKED BY: M. FOWLER
Ila028Ia2.1	SHEET 17 OF 49



**TEMPORARY 6" WHITE LINE**  
 I-189 EB MM 0.162 TO I-189 EB MM 0.193, SOLID RT.  
 I-189 EB MM 0.162 TO I-189 EB MM 0.270, DASHED CENTERLINE  
 I-189 EB MM 0.193 TO I-189 EB MM 0.270, SOLID RT.  
 I-189 EB MM 0.232 TO I-189 EB MM 0.270, DOTTED RT.  
 RAMP A MM 0.137 TO RAMP A MM 0.169, SOLID RT.  
 RAMP C MM 0.062 TO RAMP C MM 0.162, SOLID RT./DASHED CENTERLINE

**6" WHITE LINE**  
 I-189 EB MM 0.162 TO I-189 EB MM 0.193, SOLID RT.  
 I-189 EB MM 0.162 TO I-189 EB MM 0.270, DASHED CENTERLINE  
 I-189 EB MM 0.193 TO I-189 EB MM 0.270, SOLID RT.  
 I-189 EB MM 0.232 TO I-189 EB MM 0.270, DOTTED RT.  
 RAMP A MM 0.137 TO RAMP A MM 0.169, SOLID RT.  
 RAMP C MM 0.062 TO RAMP C MM 0.162, SOLID RT./DASHED CENTERLINE

**TEMPORARY 6" YELLOW LINE**  
 I-189 EB MM 0.162 TO I-189 EB MM 0.270, SOLID LT.  
 RAMP A MM 0.137 TO RAMP A MM 0.169, SOLID LT.  
 RAMP C MM 0.062 TO RAMP C MM 0.162, SOLID LT.

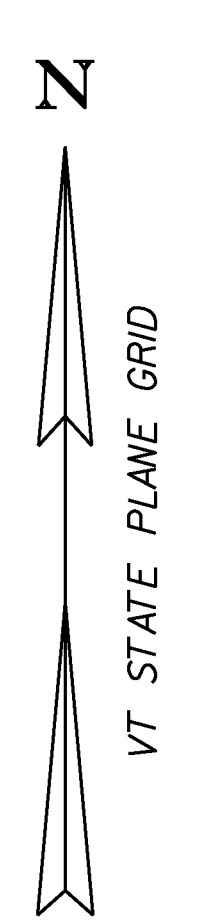
**6" YELLOW LINE**  
 I-189 EB MM 0.162 TO I-189 EB MM 0.270, SOLID LT.  
 RAMP A MM 0.137 TO RAMP A MM 0.169, SOLID LT.  
 RAMP C MM 0.062 TO RAMP C MM 0.162, SOLID LT.

**TEMPORARY LETTER OR SYMBOL**  
 RAMP C MM 0.109, LT. & RT. - "SIGNAL"  
 RAMP C MM 0.117, LT. & RT. - "AHEAD"

**LETTER OR SYMBOL**  
 RAMP C MM 0.109, LT. & RT. - "SIGNAL"  
 RAMP C MM 0.117, LT. & RT. - "AHEAD"

**TEMPORARY 12" WHITE LINE**  
 I-189 EB MM 0.193 TO I-189 EB MM 0.232, DOUBLE SOLID RT.

**12" WHITE LINE**  
 I-189 EB MM 0.193 TO I-189 EB MM 0.232, DOUBLE SOLID RT.



NOTES: 1) FOR STRIPING DETAILS AT THE GORES, SEE VAOT STANDARDS E-191 & E-192  
 2) DIRECTION OF TRAVEL →  
 3) EW= EXISTING ROADWAY WIDTH

**NOT TO SCALE**

<b>LAYOUT SHEET #3</b>	PROJECT NAME: BURLINGTON-SO. BURLINGTON
	PROJECT NUMBER: IM SURF (30)
FILE NAME: Ila028/Ila028.dgn	PLOT DATE: 12-APR-2012
PROJECT LEADER: M. FOWLER	DRAWN BY: L. BULLOCK
DESIGNED BY: L. BULLOCK	CHECKED BY: M. FOWLER
Ila028Ia3.1	SHEET 18 OF 49

**6" YELLOW LINE**  
 RAMP C MM 0.162 TO RAMP C MM 0.251, SOLID LT.  
 RAMP C MM 0.247 TO RAMP C MM 0.260, SOLID LT. SLIP RAMP  
 (BREAK FOR CROSSWALK)

**TEMPORARY 6" YELLOW LINE**  
 RAMP C MM 0.162 TO RAMP C MM 0.251, SOLID LT.  
 RAMP C MM 0.247 TO RAMP C MM 0.260, SOLID LT. SLIP RAMP  
 (BREAK FOR CROSSWALK)

**6" WHITE LINE**  
 RAMP C MM 0.162 TO RAMP C MM 0.201, SOLID RT./DASHED CENTERLINE  
 RAMP C MM 0.177 TO RAMP C MM 0.201, DASHED RT.  
 RAMP C MM 0.201 TO RAMP C MM 0.255, SOLID RT. & CENTERLINE  
 RAMP C MM 0.201 TO RAMP C MM 0.260, SOLID RT.

**TEMPORARY 6" WHITE LINE**  
 RAMP C MM 0.162 TO RAMP C MM 0.201, SOLID RT./DASHED CENTERLINE  
 RAMP C MM 0.177 TO RAMP C MM 0.201, DASHED RT.  
 RAMP C MM 0.201 TO RAMP C MM 0.255, SOLID RT. & CENTERLINE  
 RAMP C MM 0.201 TO RAMP C MM 0.260, SOLID RT.

**TEMPORARY LETTER OR SYMBOL**  
 RAMP C MM 0.202, LT. & RT. - "US7" (2)  
 RAMP C RT. - "NORTH"  
 RAMP C LT. - "SOUTH"  
 RAMP C LT. (3)  
 RAMP C CENTERLINE (3)  
 RAMP C RT. (2)  
 RAMP C LT. & RT. - "ONLY" (3)  
 RAMP C RT. - "YIELD"

**LETTER OR SYMBOL**  
 RAMP C MM 0.202, LT. & RT. - "US7" (2)  
 RAMP C RT. - "NORTH"  
 RAMP C LT. - "SOUTH"  
 RAMP C LT. (3)  
 RAMP C CENTERLINE (3)  
 RAMP C RT. (2)  
 RAMP C LT. & RT. - "ONLY" (3)  
 RAMP C RT. - "YIELD"

**12" WHITE LINE**  
 RAMP C DOUBLE SOLID W/ DIAGONALS

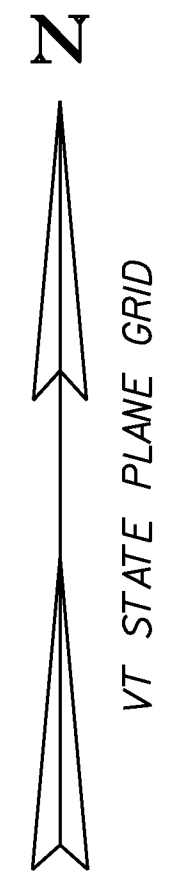
**TEMPORARY 12" WHITE LINE**  
 RAMP C DOUBLE SOLID W/ DIAGONALS

**CROSSWALK MARKING**  
 RAMP C LT. (29')  
 RAMP C RT. (24')

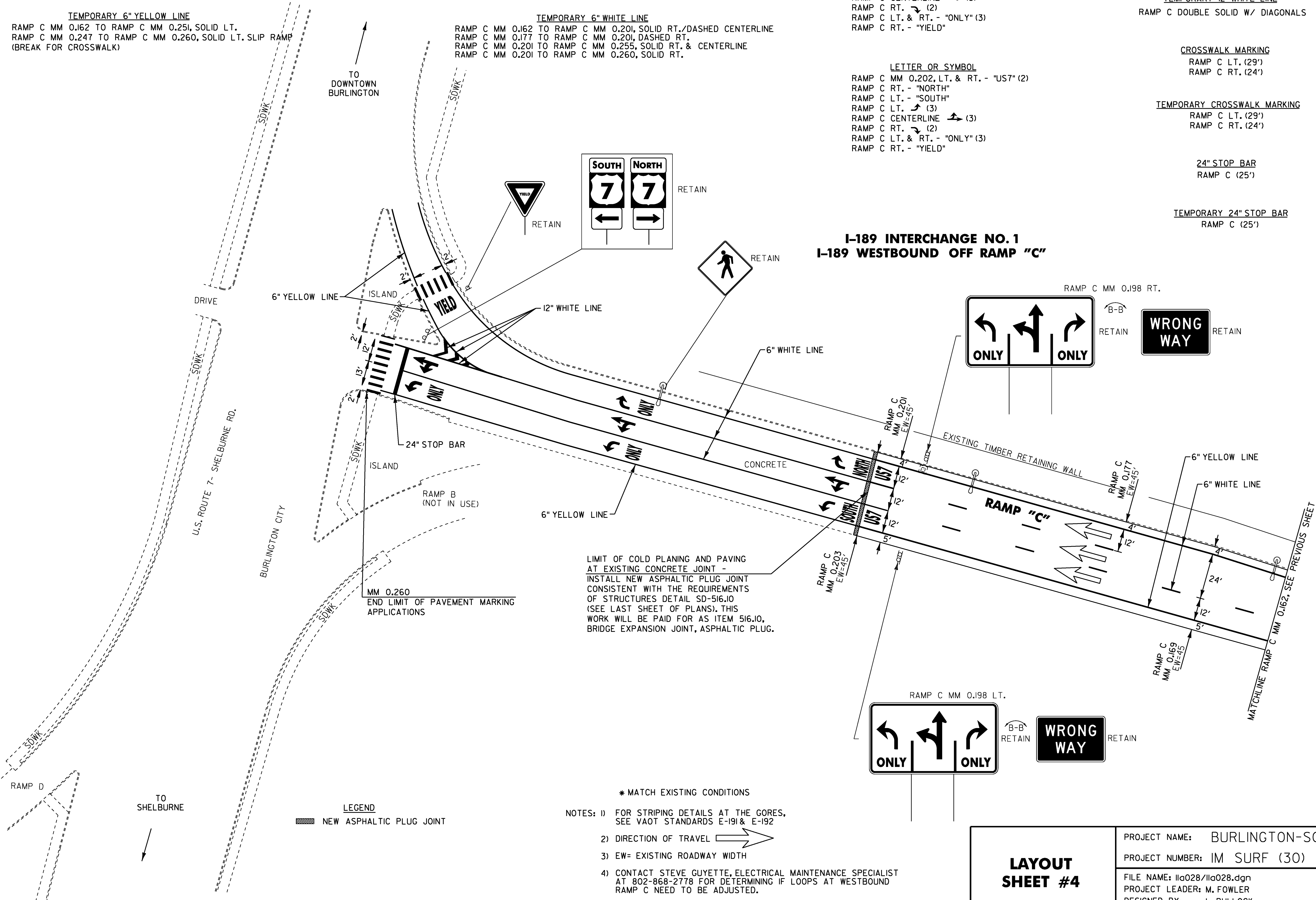
**TEMPORARY CROSSWALK MARKING**  
 RAMP C LT. (29')  
 RAMP C RT. (24')

**24" STOP BAR**  
 RAMP C (25')

**TEMPORARY 24" STOP BAR**  
 RAMP C (25')



**I-189 INTERCHANGE NO. 1  
 I-189 WESTBOUND OFF RAMP "C"**



LIMIT OF COLD PLANING AND PAVING  
 AT EXISTING CONCRETE JOINT -  
 INSTALL NEW ASPHALTIC PLUG JOINT  
 CONSISTENT WITH THE REQUIREMENTS  
 OF STRUCTURES DETAIL SD-516.10  
 (SEE LAST SHEET OF PLANS). THIS  
 WORK WILL BE PAID FOR AS ITEM 516.10,  
 BRIDGE EXPANSION JOINT, ASPHALTIC PLUG.

\* MATCH EXISTING CONDITIONS

- NOTES: 1) FOR STRIPING DETAILS AT THE GORES,  
 SEE VAOT STANDARDS E-191 & E-192
- 2) DIRECTION OF TRAVEL
- 3) EW= EXISTING ROADWAY WIDTH
- 4) CONTACT STEVE GUYETTE, ELECTRICAL MAINTENANCE SPECIALIST  
 AT 802-868-2778 FOR DETERMINING IF LOOPS AT WESTBOUND  
 RAMP C NEED TO BE ADJUSTED.

**LEGEND**  
 NEW ASPHALTIC PLUG JOINT

**NOT TO SCALE**

**LAYOUT  
 SHEET #4**

PROJECT NAME: BURLINGTON-SO. BURLINGTON

PROJECT NUMBER: IM SURF (30)

FILE NAME: Ila028/Ila028.dgn  
 PROJECT LEADER: M. FOWLER  
 DESIGNED BY: L. BULLOCK  
 Ila028Ia4.1

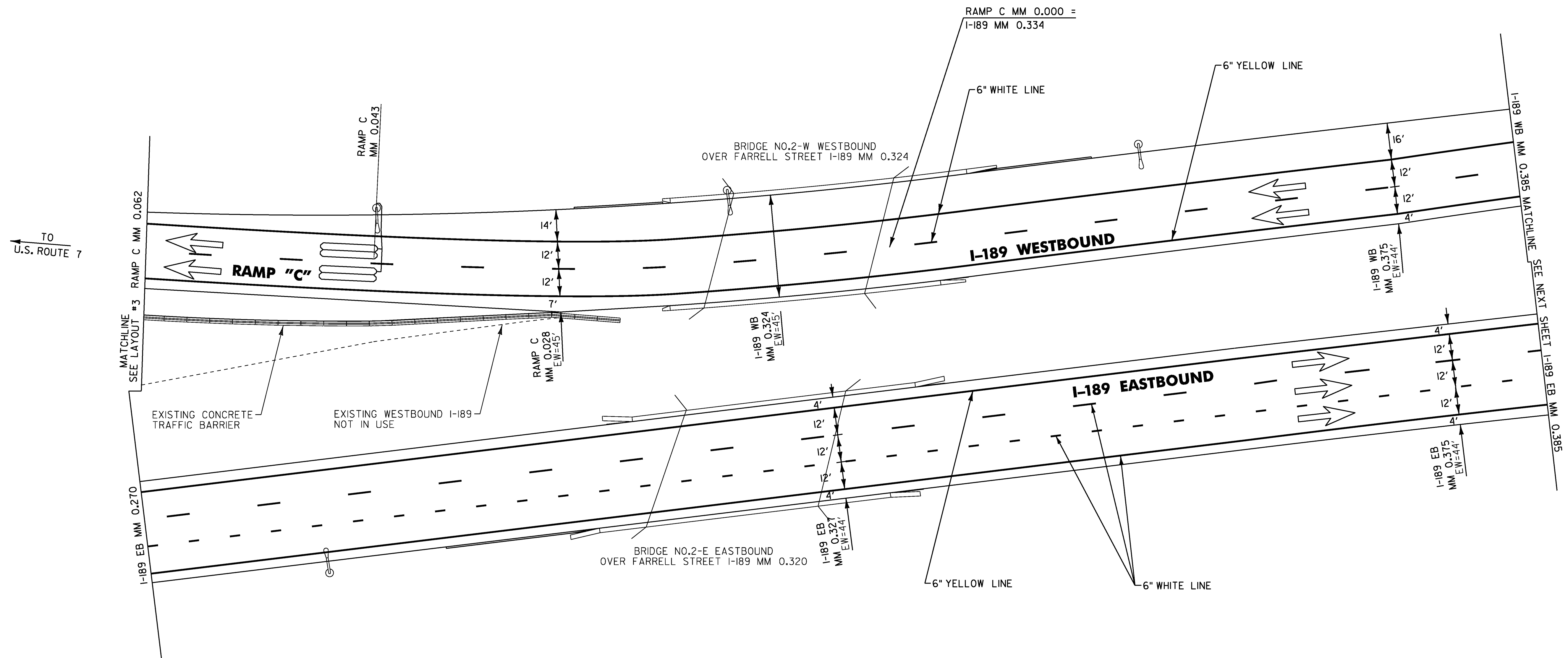
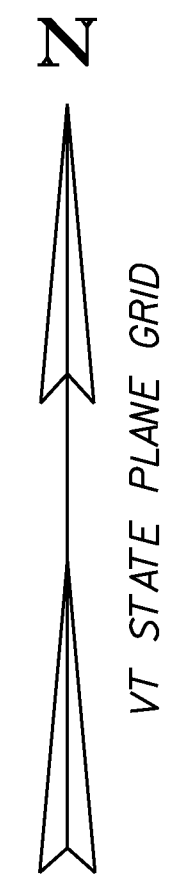
PLOT DATE: 12-APR-2012  
 DRAWN BY: L. BULLOCK  
 CHECKED BY: M. FOWLER  
 SHEET 19 OF 49

**TEMPORARY 6" WHITE LINE**  
 I-189 EB MM 0.270 TO I-189 EB MM 0.385, DASHED CENTERLINE/DOTTED RT./SOLID RT.  
 I-189 WB MM 0.334 TO I-189 WB MM 0.385, SOLID LT./DASHED CENTERLINE  
 RAMP C MM 0.000 TO RAMP C MM 0.062, DASHED CENTERLINE/SOLID RT.

**6" WHITE LINE**  
 I-189 EB MM 0.270 TO I-189 EB MM 0.385, DASHED CENTERLINE/DOTTED RT./SOLID RT.  
 I-189 WB MM 0.334 TO I-189 WB MM 0.385, SOLID LT./DASHED CENTERLINE  
 RAMP C MM 0.000 TO RAMP C MM 0.062, DASHED CENTERLINE/SOLID RT.

**TEMPORARY 6" YELLOW LINE**  
 I-189 EB MM 0.270 TO I-189 EB MM 0.385, SOLID LT.  
 I-189 WB MM 0.334 TO I-189 WB MM 0.385, SOLID RT.  
 RAMP C MM 0.000 TO RAMP C MM 0.062, SOLID LT.

**6" YELLOW LINE**  
 I-189 EB MM 0.270 TO I-189 EB MM 0.385, SOLID LT.  
 I-189 WB MM 0.334 TO I-189 WB MM 0.385, SOLID RT.  
 RAMP C MM 0.000 TO RAMP C MM 0.062, SOLID LT.



NOTES: 1) FOR STRIPING DETAILS AT THE GORES, SEE VAOT STANDARDS E-191 & E-192  
 2) DIRECTION OF TRAVEL   
 3) EW= EXISTING ROADWAY WIDTH

<b>LAYOUT SHEET #5</b>	PROJECT NAME: BURLINGTON-SO. BURLINGTON
	PROJECT NUMBER: IM SURF (30)
FILE NAME: Ila028/Ila028.dgn	PLOT DATE: 12-APR-2012
PROJECT LEADER: M. FOWLER	DRAWN BY: L. BULLOCK
DESIGNED BY: L. BULLOCK	CHECKED BY: M. FOWLER
Ila028Ia5.I	SHEET 20 OF 49

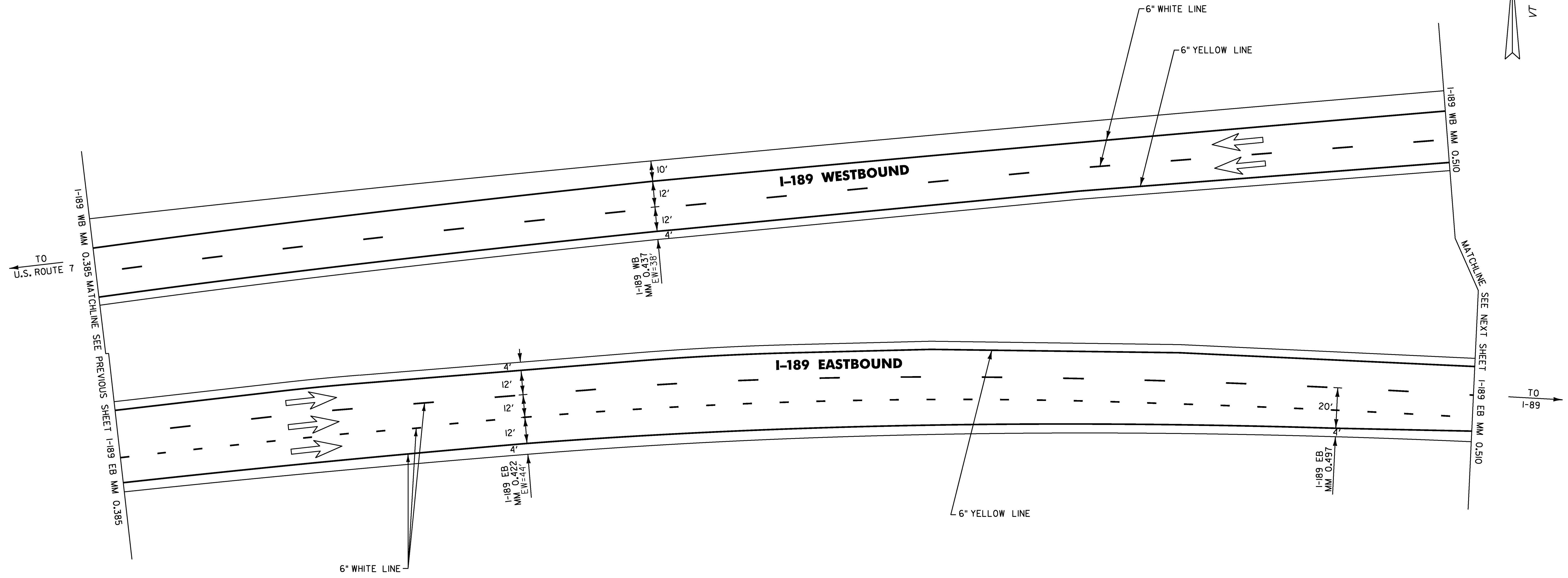
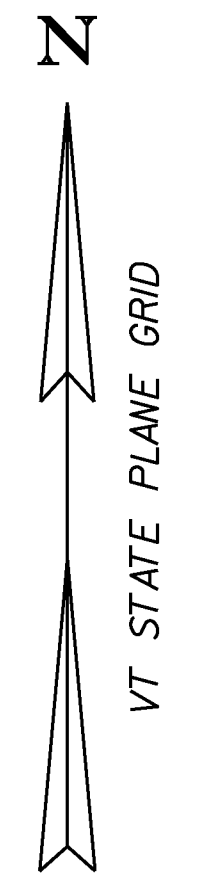
NOT TO SCALE

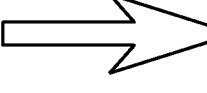
**TEMPORARY 6" WHITE LINE**  
 I-189 EB MM 0.385 TO I-189 EB MM 0.510, DASHED CENTERLINE/SOLID RT.  
 I-189 EB MM 0.385 TO I-189 EB MM 0.510, DOTTED RT.  
 I-189 WB MM 0.385 TO I-189 WB MM 0.510, SOLID LT./DASHED CENTERLINE

**6" WHITE LINE**  
 I-189 EB MM 0.385 TO I-189 EB MM 0.510, DASHED CENTERLINE/SOLID RT.  
 I-189 EB MM 0.385 TO I-189 EB MM 0.510, DOTTED RT.  
 I-189 WB MM 0.385 TO I-189 WB MM 0.510, SOLID LT./DASHED CENTERLINE

**TEMPORARY 6" YELLOW LINE**  
 I-189 EB MM 0.385 TO I-189 EB MM 0.510, SOLID LT.  
 I-189 WB MM 0.385 TO I-189 WB MM 0.510, SOLID RT.

**6" YELLOW LINE**  
 I-189 EB MM 0.385 TO I-189 EB MM 0.510, SOLID LT.  
 I-189 WB MM 0.385 TO I-189 WB MM 0.510, SOLID RT.



- NOTES: 1) FOR STRIPING DETAILS AT THE GORES, SEE VAOT STANDARDS E-191 & E-192  
 2) DIRECTION OF TRAVEL   
 3) EW= EXISTING ROADWAY WIDTH

**NOT TO SCALE**

**LAYOUT SHEET #6**

PROJECT NAME: BURLINGTON-SO. BURLINGTON

PROJECT NUMBER: IM SURF (30)

FILE NAME: Ila028/Ila028.dgn  
 PROJECT LEADER: M. FOWLER  
 DESIGNED BY: L. BULLOCK  
 Ila028Ia6.I

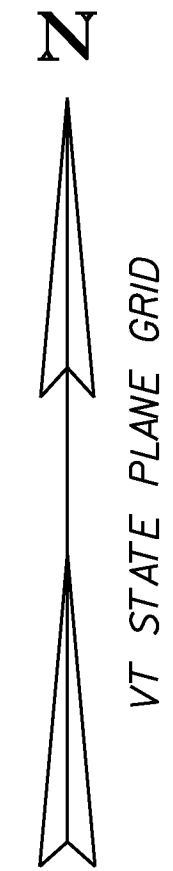
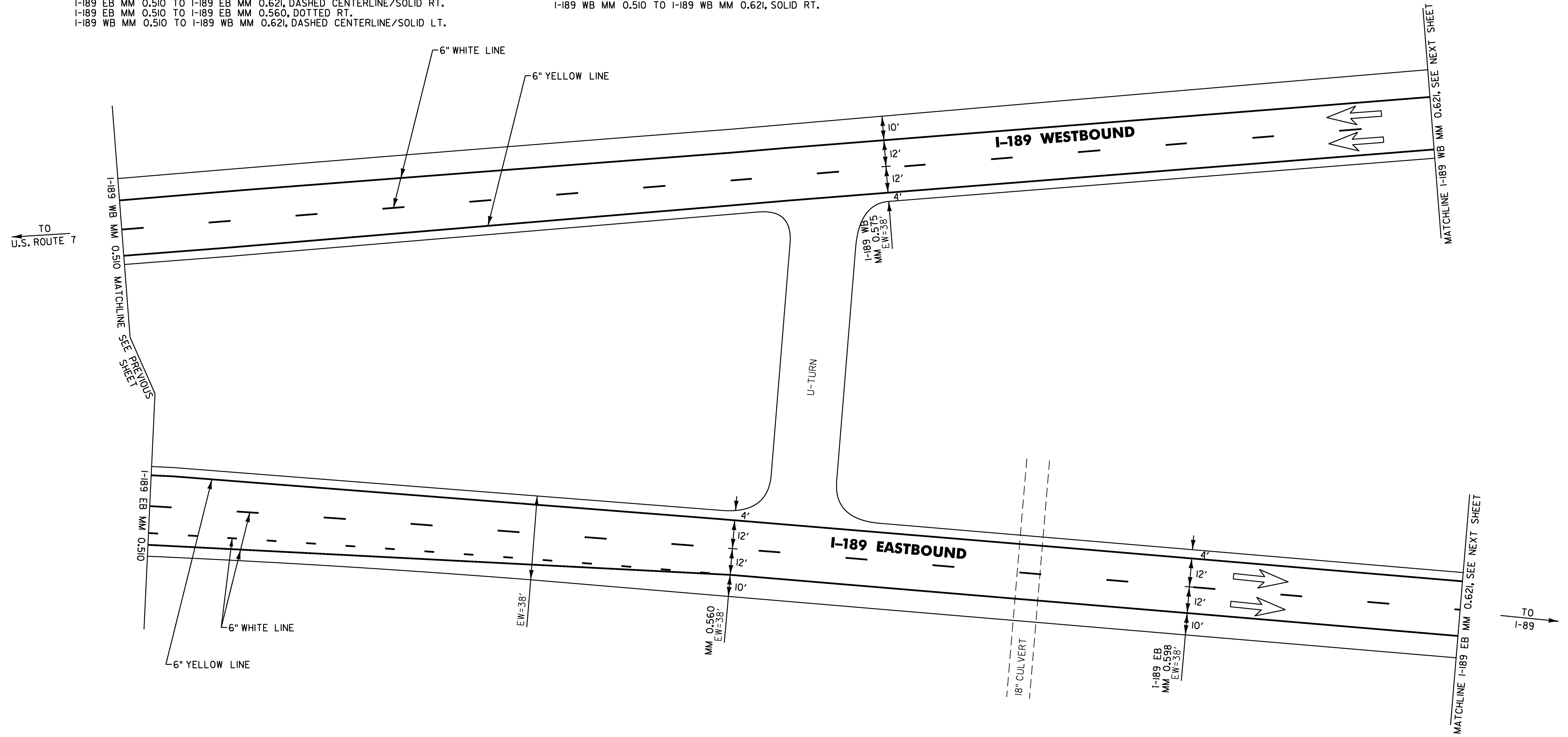
PLOT DATE: 12-APR-2012  
 DRAWN BY: L. BULLOCK  
 CHECKED BY: M. FOWLER  
 SHEET 21 OF 49

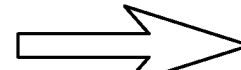
**TEMPORARY 6" WHITE LINE**  
 I-189 EB MM 0.510 TO I-189 EB MM 0.621, DASHED CENTERLINE/SOLID RT.  
 I-189 EB MM 0.510 TO I-189 EB MM 0.560, DOTTED RT.  
 I-189 WB MM 0.510 TO I-189 WB MM 0.621, DASHED CENTERLINE/SOLID LT.

**TEMPORARY 6" YELLOW LINE**  
 I-189 EB MM 0.510 TO I-189 EB MM 0.621, SOLID LT.  
 I-189 WB MM 0.510 TO I-189 WB MM 0.621, SOLID RT.

**6" WHITE LINE**  
 I-189 EB MM 0.510 TO I-189 EB MM 0.621, DASHED CENTERLINE/SOLID RT.  
 I-189 EB MM 0.510 TO I-189 EB MM 0.560, DOTTED RT.  
 I-189 WB MM 0.510 TO I-189 WB MM 0.621, DASHED CENTERLINE/SOLID LT.

**6" YELLOW LINE**  
 I-189 EB MM 0.510 TO I-189 EB MM 0.621, SOLID LT.  
 I-189 WB MM 0.510 TO I-189 WB MM 0.621, SOLID RT.



- NOTES: 1) FOR STRIPING DETAILS AT THE GORES, SEE VAOT STANDARDS E-191 & E-192  
 2) DIRECTION OF TRAVEL   
 3) EW= EXISTING ROADWAY WIDTH  
 4) DO NOT PAVE U-TURN (SEE SHEET 7)

**NOT TO SCALE**

**LAYOUT SHEET #7**

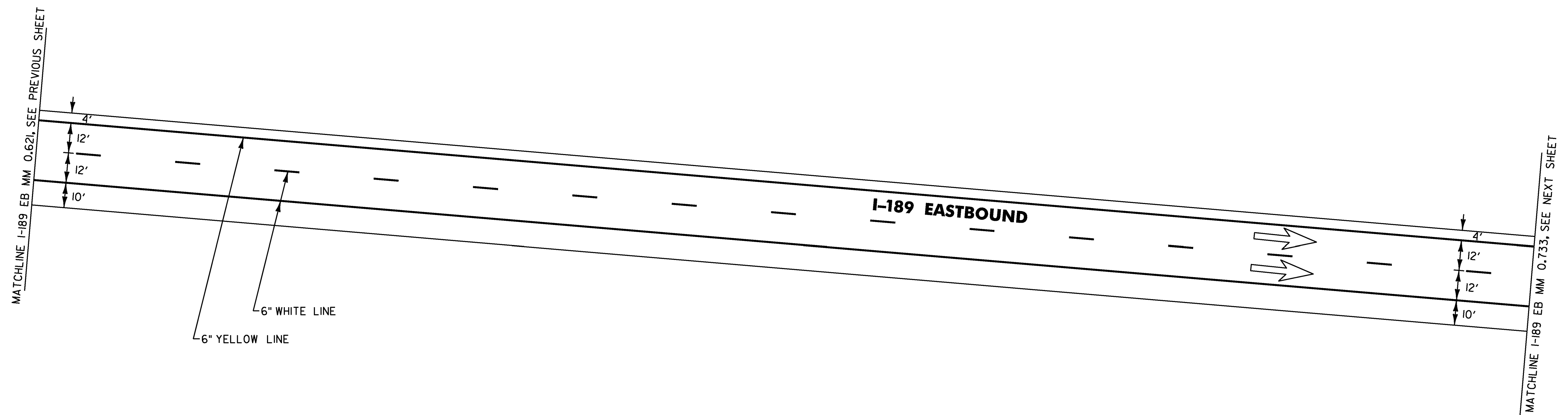
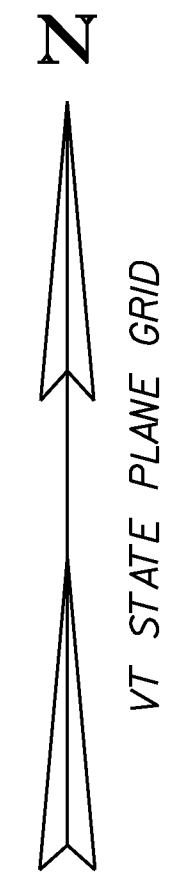
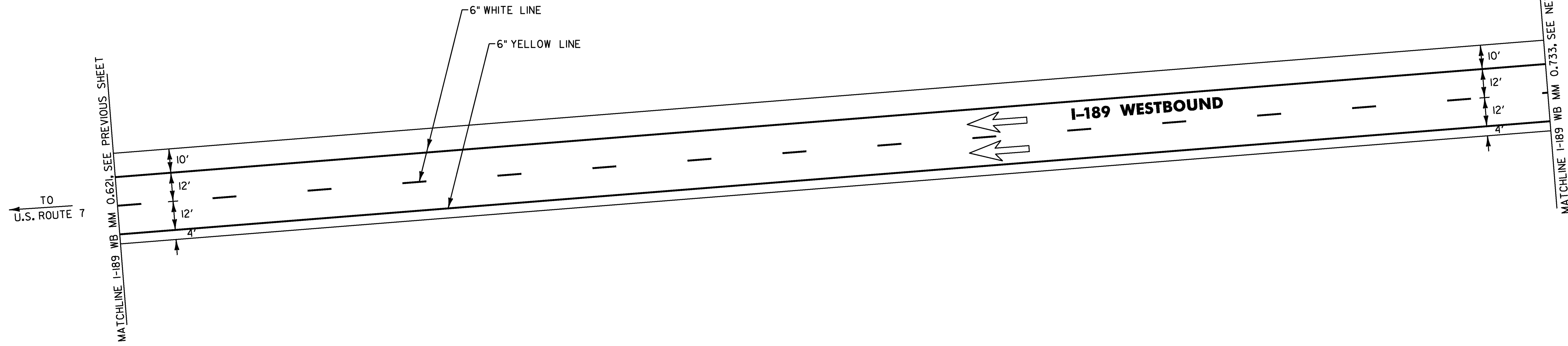
PROJECT NAME: BURLINGTON-SO. BURLINGTON	
PROJECT NUMBER: IM SURF (30)	
FILE NAME: Ila028/Ila028.dgn	PLOT DATE: 12-APR-2012
PROJECT LEADER: M. FOWLER	DRAWN BY: L. BULLOCK
DESIGNED BY: L. BULLOCK	CHECKED BY: M. FOWLER
Ila028Ia7.1	SHEET 22 OF 49

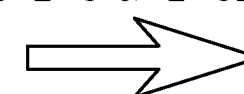
**TEMPORARY 6" WHITE LINE**  
 I-189 EB MM 0.621 TO I-189 EB MM 0.733, DASHED CENTERLINE/SOLID RT.  
 I-189 WB MM 0.621 TO I-189 WB MM 0.733, DASHED CENTERLINE/SOLID LT.

**TEMPORARY 6" YELLOW LINE**  
 I-189 EB MM 0.621 TO I-189 EB MM 0.733, SOLID LT.  
 I-189 WB MM 0.621 TO I-189 WB MM 0.733, SOLID RT.

**6" WHITE LINE**  
 I-189 EB MM 0.621 TO I-189 EB MM 0.733, DASHED CENTERLINE/SOLID RT.  
 I-189 WB MM 0.621 TO I-189 WB MM 0.733, DASHED CENTERLINE/SOLID LT.

**6" YELLOW LINE**  
 I-189 WB MM 0.621 TO I-189 WB MM 0.733, SOLID RT.  
 I-189 EB MM 0.621 TO I-189 EB MM 0.733, SOLID LT.



- NOTES: 1) FOR STRIPING DETAILS AT THE GORES, SEE VAOT STANDARDS E-191 & E-192  
 2) DIRECTION OF TRAVEL   
 3) EW= EXISTING ROADWAY WIDTH

**NOT TO SCALE**

**LAYOUT SHEET #8**

PROJECT NAME: BURLINGTON-SO. BURLINGTON

PROJECT NUMBER: IM SURF (30)

FILE NAME: Ila028/Ila028.dgn  
 PROJECT LEADER: M. FOWLER  
 DESIGNED BY: L. BULLOCK  
 Ila028Ia8.I

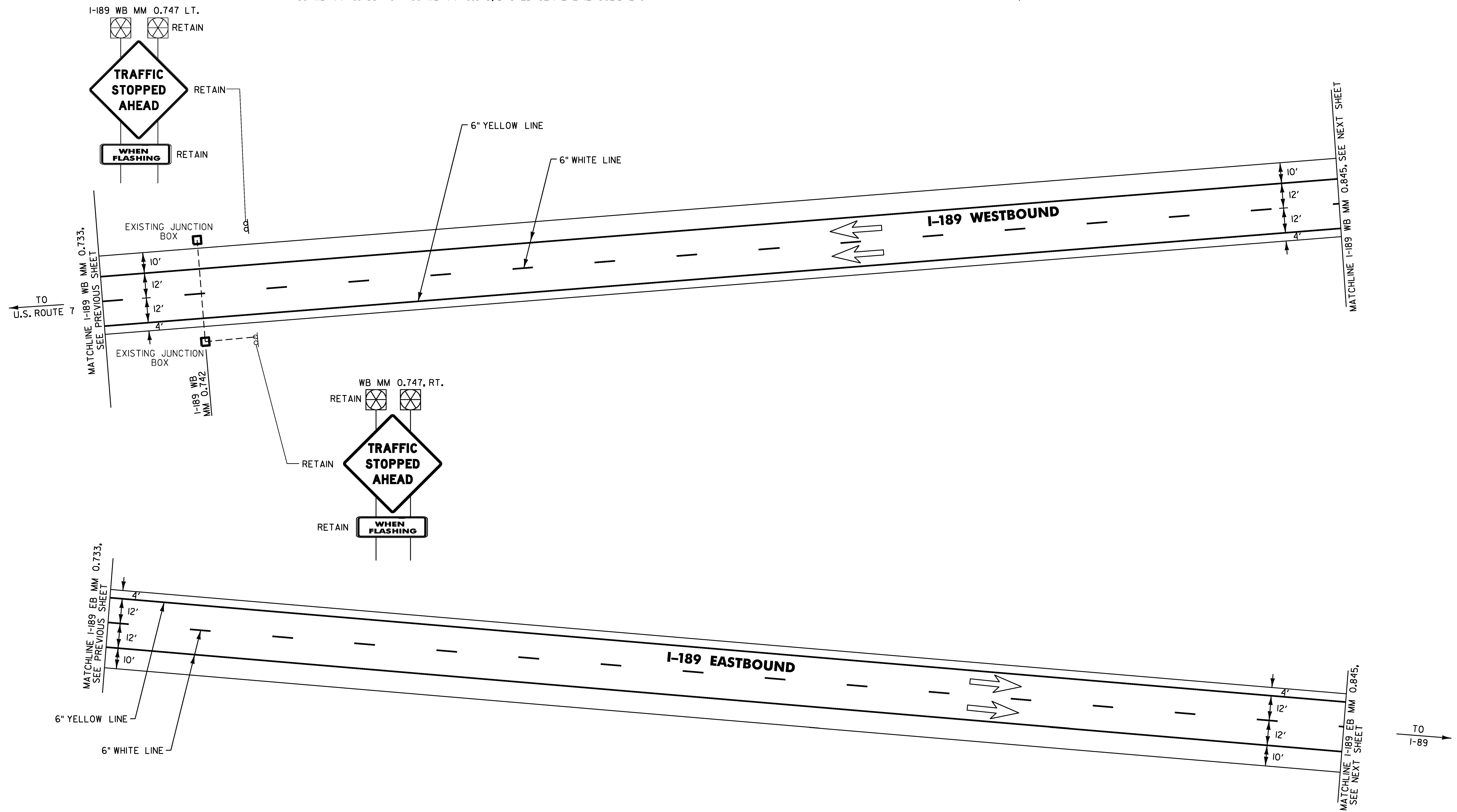
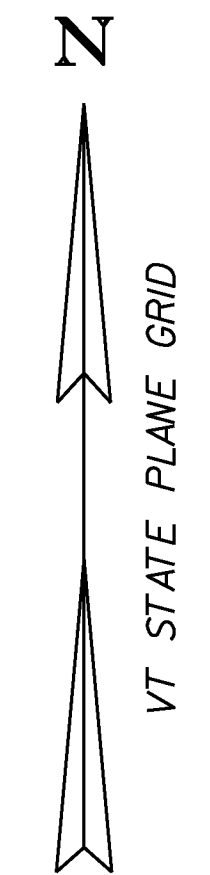
PLOT DATE: 12-APR-2012  
 DRAWN BY: L. BULLOCK  
 CHECKED BY: M. FOWLER  
 SHEET 23 OF 49

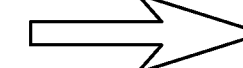
**TEMPORARY 6" WHITE LINE**  
 I-189 EB MM 0.733 TO I-189 EB MM 0.845, DASHED CENTERLINE/SOLID RT.  
 I-189 WB MM 0.733 TO I-189 WB MM 0.845, DASHED CENTERLINE/SOLID LT.

**6" WHITE LINE**  
 I-189 EB MM 0.733 TO I-189 EB MM 0.845, DASHED CENTERLINE/SOLID RT.  
 I-189 WB MM 0.733 TO I-189 WB MM 0.845, DASHED CENTERLINE/SOLID LT.

**TEMPORARY 6" YELLOW LINE**  
 I-189 EB MM 0.733 TO I-189 EB MM 0.845, SOLID LT.  
 I-189 WB MM 0.733 TO I-189 WB MM 0.845, SOLID RT.

**6" YELLOW LINE**  
 I-189 EB MM 0.733 TO I-189 EB MM 0.845, SOLID LT.  
 I-189 WB MM 0.733 TO I-189 WB MM 0.845, SOLID RT.



- NOTES: 1) FOR STRIPING DETAILS AT THE GORES, SEE VAOT STANDARDS E-191 & E-192  
 2) DIRECTION OF TRAVEL   
 3) EW= EXISTING ROADWAY WIDTH

**NOT TO SCALE**

**LAYOUT SHEET #9**

PROJECT NAME: BURLINGTON-SO. BURLINGTON

PROJECT NUMBER: IM SURF (30)

FILE NAME: Ila028/Ila028.dgn  
 PROJECT LEADER: M. FOWLER  
 DESIGNED BY: L. BULLOCK  
 Ila028Ia9.1

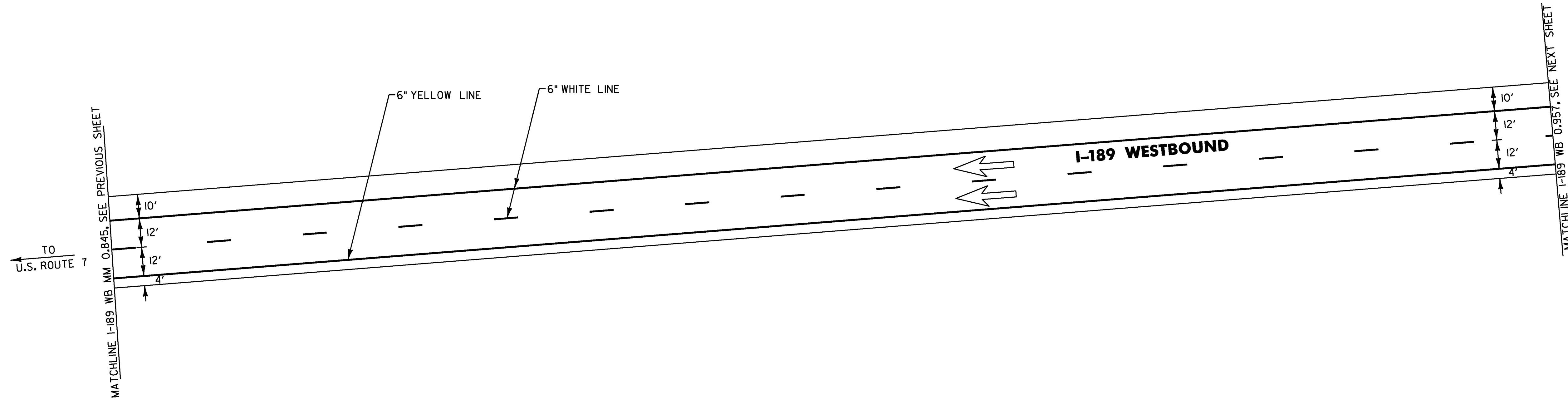
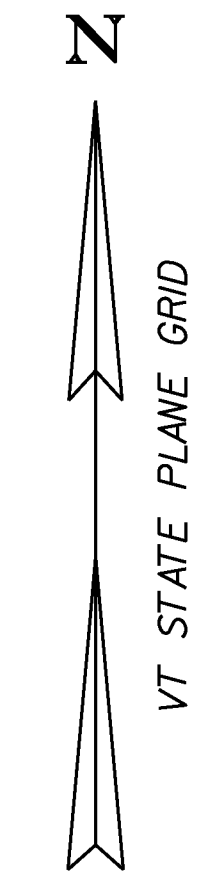
PLOT DATE: 12-APR-2012  
 DRAWN BY: L. BULLOCK  
 CHECKED BY: M. FOWLER  
 SHEET 24 OF 49

**TEMPORARY 6" WHITE LINE**  
 I-189 EB MM 0.845 TO I-189 EB MM 0.957, DASHED CENTERLINE/SOLID RT.  
 I-189 WB MM 0.845 TO I-189 WB MM 0.957, DASHED CENTERLINE/SOLID LT.

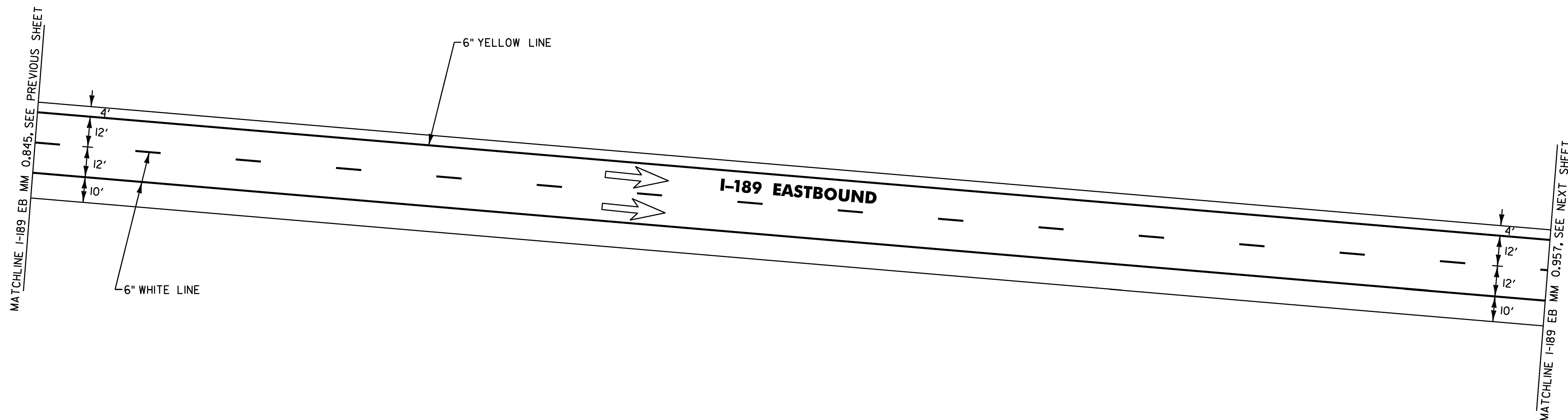
**6" WHITE LINE**  
 I-189 WB MM 0.845 TO I-189 WB MM 0.957, DASHED CENTERLINE/SOLID LT.  
 I-189 EB MM 0.845 TO I-189 EB MM 0.957, DASHED CENTERLINE/SOLID RT.

**TEMPORARY 6" YELLOW LINE**  
 I-189 EB MM 0.845 TO I-189 EB MM 0.957, SOLID LT.  
 I-189 WB MM 0.845 TO I-189 WB MM 0.957, SOLID RT.

**6" YELLOW LINE**  
 I-189 WB MM 0.845 TO I-189 WB MM 0.957, SOLID RT.  
 I-189 EB MM 0.845 TO I-189 EB MM 0.957, SOLID LT.



NOTE: FROM I-189 EB/WB MM 0.845 TO MM 1.417, THE WIDTH OF THE MEDIAN HAS BEEN REDUCED GRAPHICALLY IN ORDER TO SHOW BOTH EASTBOUND AND WESTBOUND ALIGNMENTS.



- NOTES: 1) FOR STRIPING DETAILS AT THE GORES, SEE VAOT STANDARDS E-191 & E-192  
 2) DIRECTION OF TRAVEL   
 3) EW= EXISTING ROADWAY WIDTH

**NOT TO SCALE**

**LAYOUT SHEET #10**

PROJECT NAME: BURLINGTON-SO. BURLINGTON

PROJECT NUMBER: IM SURF (30)

FILE NAME: Ila028/Ila028.dgn  
 PROJECT LEADER: M. FOWLER  
 DESIGNED BY: L. BULLOCK  
 Ila028Ia10.1

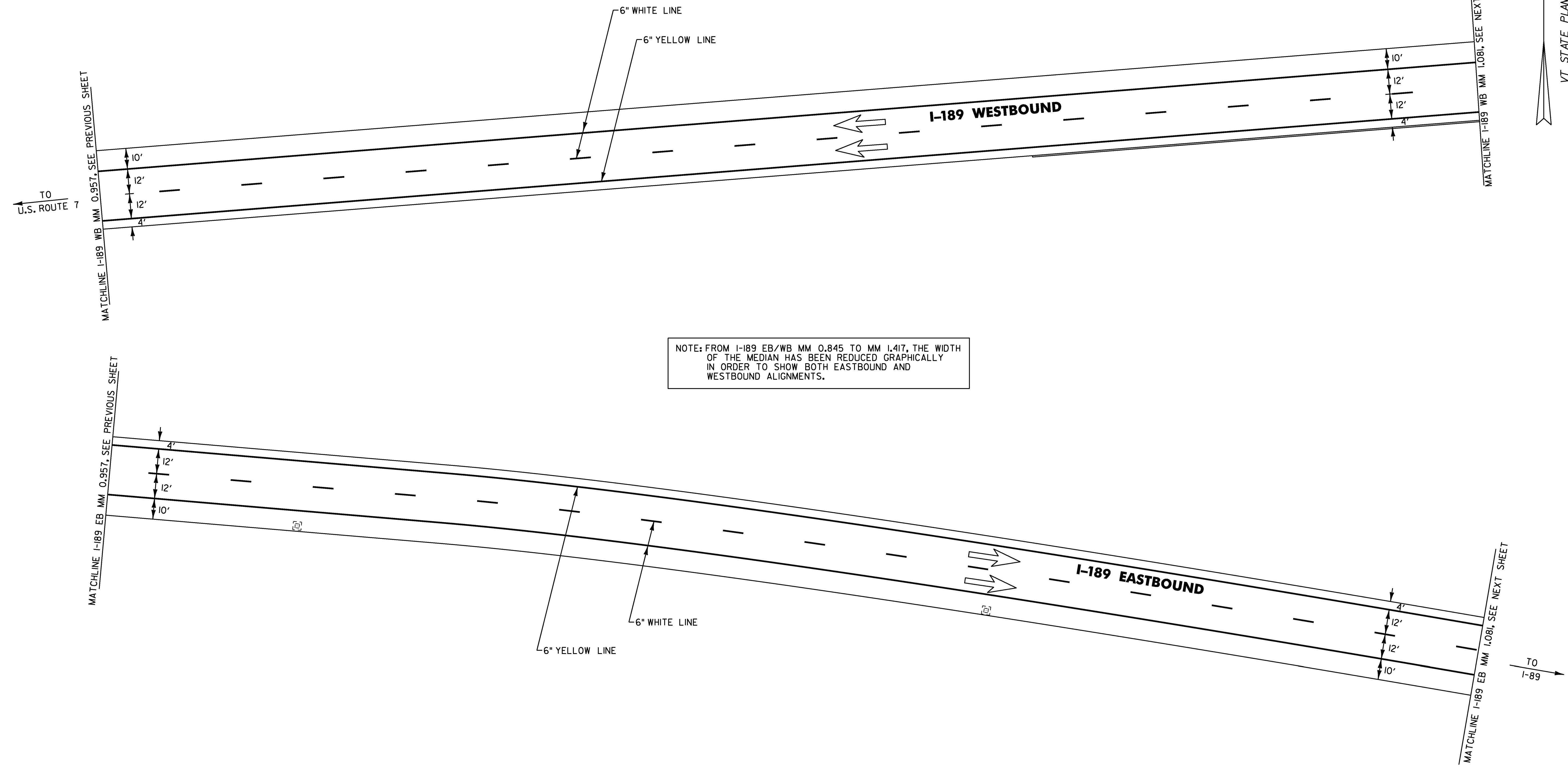
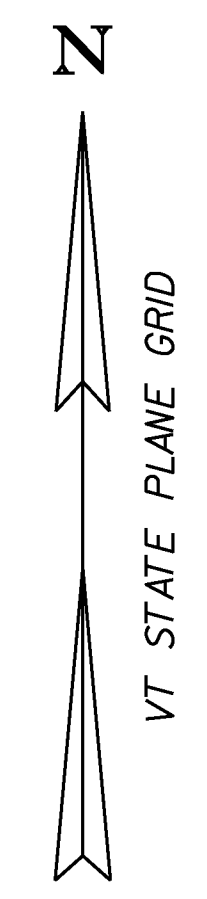
PLOT DATE: 12-APR-2012  
 DRAWN BY: L. BULLOCK  
 CHECKED BY: M. FOWLER  
 SHEET 25 OF 49

**TEMPORARY 6" WHITE LINE**  
 I-189 EB MM 0.957 TO I-189 EB MM 1.081, DASHED CENTERLINE/SOLID RT.  
 I-189 WB MM 0.957 TO I-189 WB MM 1.081, DASHED CENTERLINE/SOLID LT.

**TEMPORARY 6" YELLOW LINE**  
 I-189 EB MM 0.957 TO I-189 EB MM 1.081, SOLID LT.  
 I-189 WB MM 0.957 TO I-189 WB MM 1.081, SOLID RT.

**6" WHITE LINE**  
 I-189 EB MM 0.957 TO I-189 EB MM 1.081, DASHED CENTERLINE/SOLID RT.  
 I-189 WB MM 0.957 TO I-189 WB MM 1.081, DASHED CENTERLINE/SOLID LT.

**6" YELLOW LINE**  
 I-189 EB MM 0.957 TO I-189 EB MM 1.081, SOLID LT.  
 I-189 WB MM 0.957 TO I-189 WB MM 1.081, SOLID RT.



NOTE: FROM I-189 EB/WB MM 0.845 TO MM 1.417, THE WIDTH OF THE MEDIAN HAS BEEN REDUCED GRAPHICALLY IN ORDER TO SHOW BOTH EASTBOUND AND WESTBOUND ALIGNMENTS.

- NOTES: 1) FOR STRIPING DETAILS AT THE GORES, SEE VAOT STANDARDS E-191 & E-192  
 2) DIRECTION OF TRAVEL   
 3) EW= EXISTING ROADWAY WIDTH

**NOT TO SCALE**

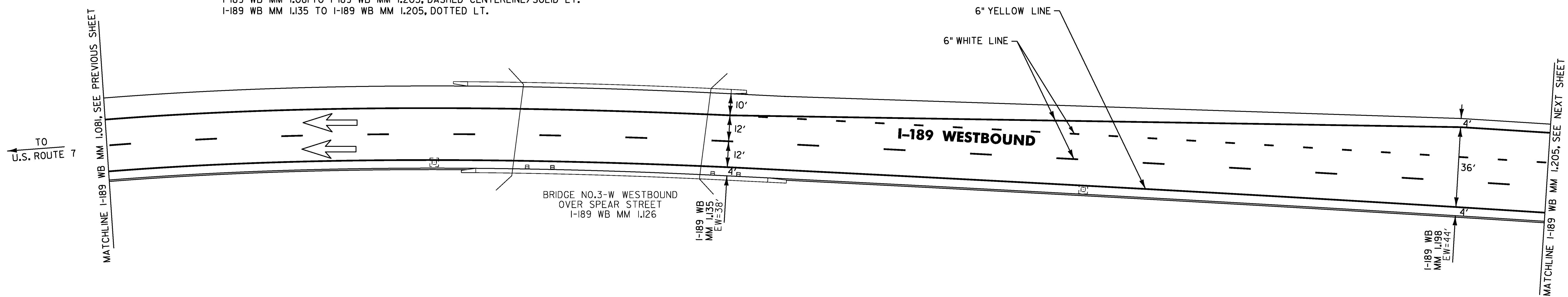
<b>LAYOUT SHEET #11</b>	PROJECT NAME: BURLINGTON-SO. BURLINGTON
	PROJECT NUMBER: IM SURF (30)
FILE NAME: Ila028/Ila028.dgn	PLOT DATE: 12-APR-2012
PROJECT LEADER: M. FOWLER	DRAWN BY: L. BULLOCK
DESIGNED BY: L. BULLOCK	CHECKED BY: M. FOWLER
Ila028Ia11	SHEET 26 OF 49

**TEMPORARY 6" WHITE LINE**  
 I-189 EB MM 1.081 TO I-189 EB MM 1.205, DASHED CENTERLINE/SOLID RT.  
 I-189 WB MM 1.081 TO I-189 WB MM 1.205, DASHED CENTERLINE/SOLID LT.  
 I-189 WB MM 1.135 TO I-189 WB MM 1.205, DOTTED LT.

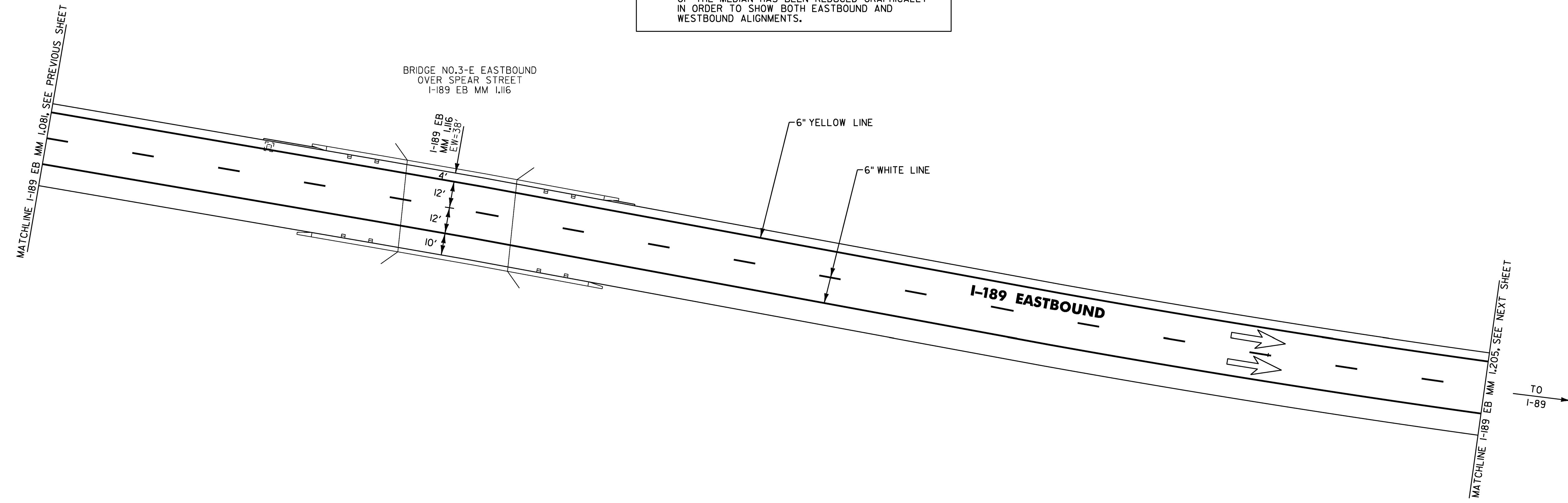
**TEMPORARY 6" YELLOW LINE**  
 I-189 EB MM 1.081 TO I-189 EB 1.205, SOLID LT.  
 I-189 WB MM 1.081 TO I-189 WB 1.205, SOLID RT.

**6" WHITE LINE**  
 I-189 EB MM 1.081 TO I-189 EB MM 1.205, DASHED CENTERLINE/SOLID RT.  
 I-189 WB MM 1.081 TO I-189 WB MM 1.205, DASHED CENTERLINE/SOLID LT.  
 I-189 WB MM 1.135 TO I-189 WB MM 1.205, DOTTED LT.

**6" YELLOW LINE**  
 I-189 EB MM 1.081 TO I-189 EB 1.205, SOLID LT.  
 I-189 WB MM 1.081 TO I-189 WB 1.205, SOLID RT.



NOTE: FROM I-189 EB/WB MM 0.845 TO MM 1.417, THE WIDTH OF THE MEDIAN HAS BEEN REDUCED GRAPHICALLY IN ORDER TO SHOW BOTH EASTBOUND AND WESTBOUND ALIGNMENTS.



NOTES: 1) FOR STRIPING DETAILS AT THE GORES, SEE VAOT STANDARDS E-191 & E-192  
 2) DIRECTION OF TRAVEL   
 3) EW= EXISTING ROADWAY WIDTH

NOT TO SCALE

<b>LAYOUT SHEET #12</b>	PROJECT NAME: BURLINGTON-SO. BURLINGTON
	PROJECT NUMBER: IM SURF (30)
	FILE NAME: Ila028/Ila028.dgn PROJECT LEADER: M. FOWLER DESIGNED BY: L. BULLOCK Ila028Ia12.i
	PLOT DATE: 12-APR-2012 DRAWN BY: L. BULLOCK CHECKED BY: M. FOWLER SHEET 27 OF 49

**TEMPORARY 12" WHITE LINE**  
 I-189 WB MM 1.256 TO I-189 WB MM 1.296, DOUBLE SOLID LT.

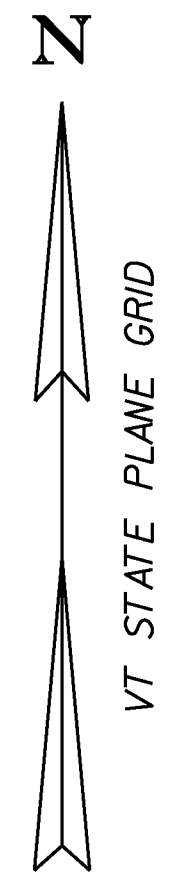
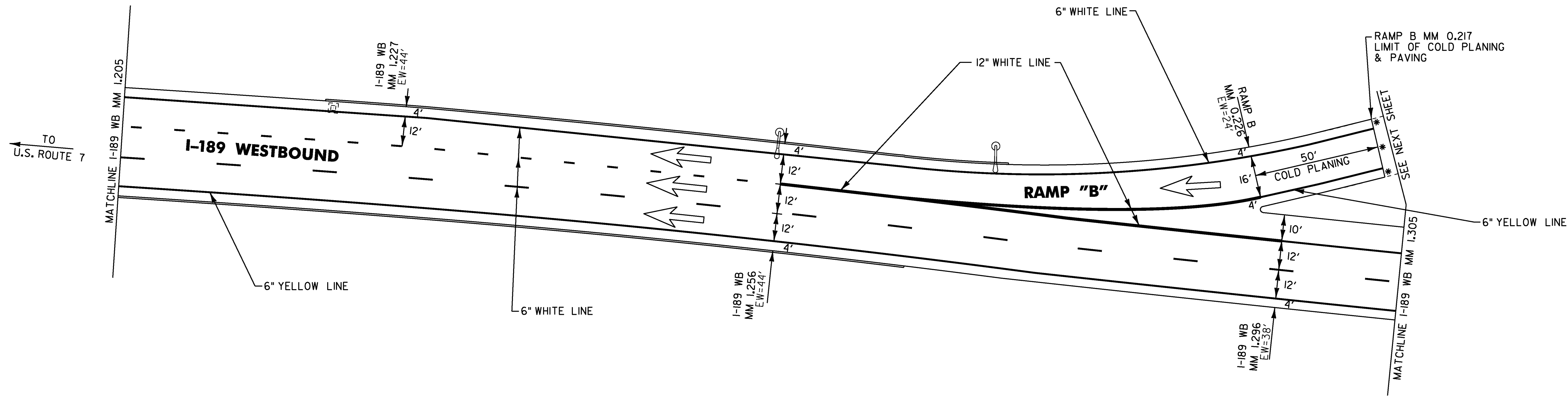
**12" WHITE LINE**  
 I-189 WB MM 1.256 TO I-189 WB MM 1.296, DOUBLE SOLID LT.

**TEMPORARY 6" YELLOW LINE**  
 I-189 EB MM 1.205 TO I-189 EB MM 1.305, SOLID LT.  
 I-189 WB MM 1.205 TO I-189 WB MM 1.305, SOLID RT.  
 RAMP B MM 0.217 TO RAMP B 0.226, SOLID LT

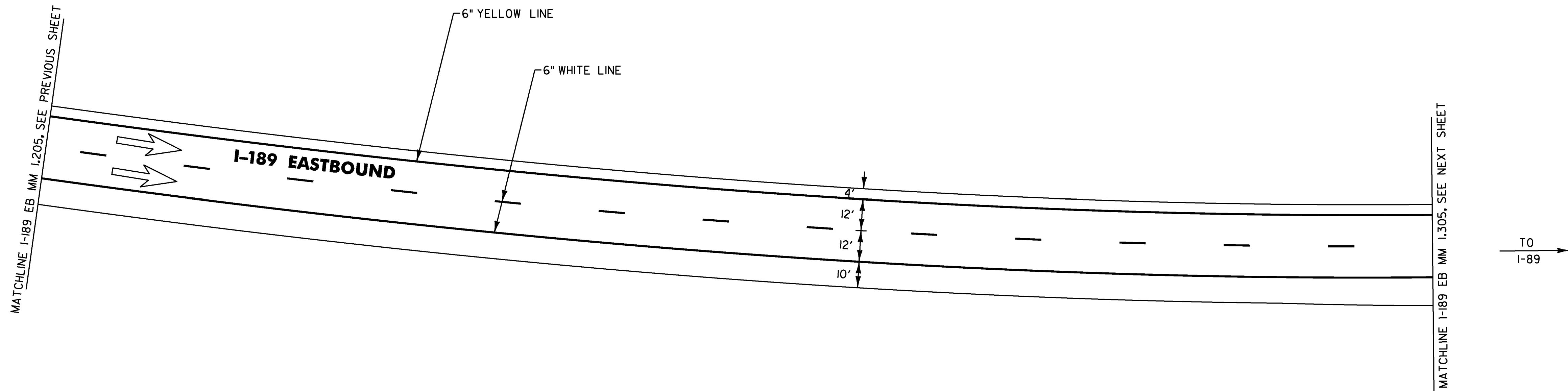
**6" YELLOW LINE**  
 I-189 EB MM 1.205 TO I-189 EB MM 1.305, SOLID LT.  
 I-189 WB MM 1.205 TO I-189 WB MM 1.305, SOLID RT.  
 RAMP B MM 0.217 TO RAMP B 0.226, SOLID LT

**TEMPORARY 6" WHITE LINE**  
 I-189 EB MM 1.205 TO I-189 EB MM 1.305, DASHED CENTERLINE/SOLID RT.  
 I-189 WB MM 1.205 TO I-189 WB MM 1.292, SOLID FAR LT.  
 I-189 WB MM 1.205 TO I-189 WB MM 1.305, DASHED CENTERLINE  
 I-189 WB MM 1.205 TO I-189 WB MM 1.256, DOTTED LT.  
 I-189 WB MM 1.296 TO I-189 WB MM 1.305, SOLID LT.  
 RAMP B MM 0.217 TO RAMP B MM 0.226, SOLID RT.

**6" WHITE LINE**  
 I-189 EB MM 1.205 TO I-189 EB MM 1.305, DASHED CENTERLINE/SOLID RT.  
 I-189 WB MM 1.205 TO I-189 WB MM 1.292, SOLID FAR LT.  
 I-189 WB MM 1.205 TO I-189 WB MM 1.305, DASHED CENTERLINE  
 I-189 WB MM 1.205 TO I-189 WB MM 1.256, DOTTED LT.  
 I-189 WB MM 1.296 TO I-189 WB MM 1.305, SOLID LT.  
 RAMP B MM 0.217 TO RAMP B MM 0.226, SOLID RT.



NOTE: FROM I-189 EB/WB MM 0.845 TO MM 1.417, THE WIDTH OF THE MEDIAN HAS BEEN REDUCED GRAPHICALLY IN ORDER TO SHOW BOTH EASTBOUND AND WESTBOUND ALIGNMENTS.



- NOTES: 1) FOR STRIPING DETAILS AT THE GORES, SEE VAOT STANDARDS E-191 & E-192  
 2) DIRECTION OF TRAVEL →  
 3) EW= EXISTING ROADWAY WIDTH

NOT TO SCALE

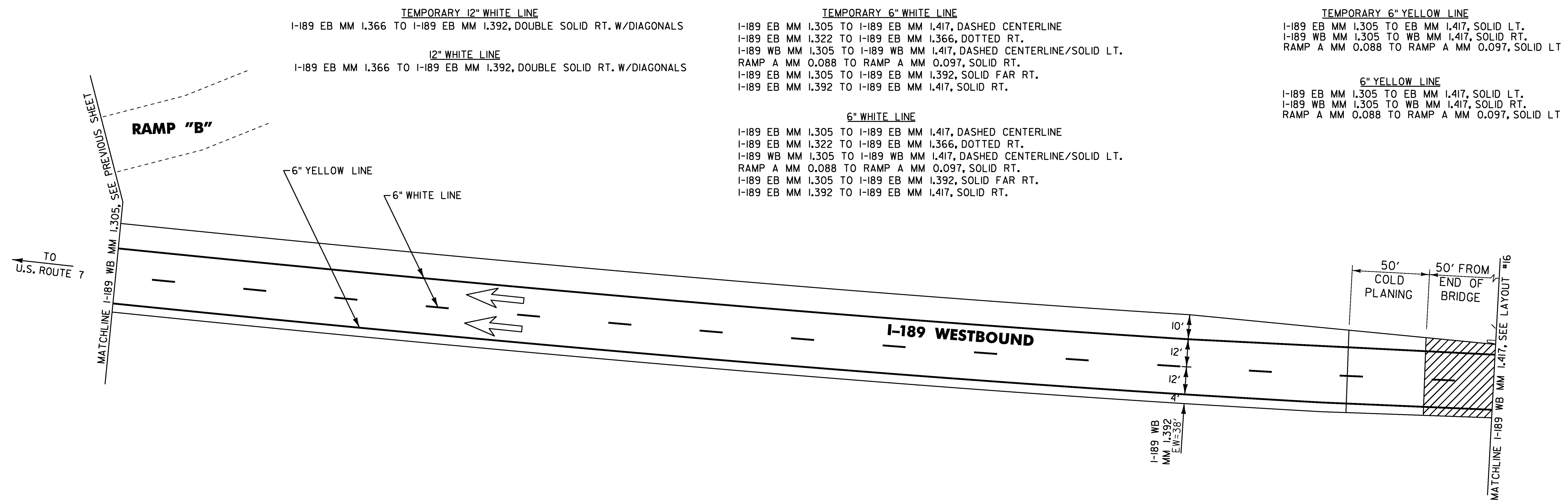
**LAYOUT SHEET #13**

PROJECT NAME: BURLINGTON-SO. BURLINGTON

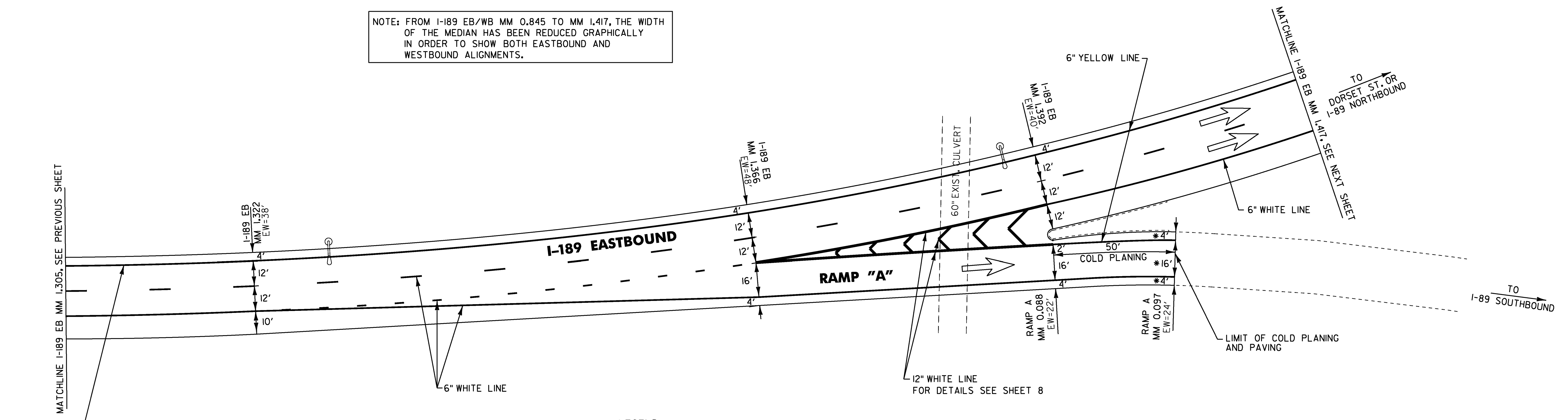
PROJECT NUMBER: IM SURF (30)

FILE NAME: Ila028/Ila028.dgn  
 PROJECT LEADER: M. FOWLER  
 DESIGNED BY: L. BULLOCK  
 Ila028Ia13.1

PLOT DATE: 12-APR-2012  
 DRAWN BY: L. BULLOCK  
 CHECKED BY: M. FOWLER  
 SHEET 28 OF 49



NOTE: FROM I-189 EB/WB MM 0.845 TO MM 1.417, THE WIDTH OF THE MEDIAN HAS BEEN REDUCED GRAPHICALLY IN ORDER TO SHOW BOTH EASTBOUND AND WESTBOUND ALIGNMENTS.



**LEGEND**  
 NO COLD PLANING OR PAVING IN THIS AREA  
 \*MATCH EXISTING CONDITIONS

NOTES: 1) FOR STRIPING DETAILS AT THE GORES, SEE VAOT STANDARDS E-191 & E-192  
 2) DIRECTION OF TRAVEL   
 3) EW= EXISTING ROADWAY WIDTH

**NOT TO SCALE**

**LAYOUT SHEET #14**

PROJECT NAME: BURLINGTON-SO. BURLINGTON	PLOT DATE: 12-APR-2012
PROJECT NUMBER: IM SURF (30)	DRAWN BY: L. BULLOCK
FILE NAME: Ila028/Ila028.dgn	CHECKED BY: M. FOWLER
PROJECT LEADER: M. FOWLER	SHEET 29 OF 49
DESIGNED BY: L. BULLOCK	
Ila028Ia14.f	

**TEMPORARY 12" WHITE LINE**  
 RAMP F MM 0.008 TO RAMP F MM 0.017, SOLID CENTERLINE  
 RAMP F MM 0.017 TO RAMP F MM 0.037, DOUBLE SOLID LT. W/DIAGONALS

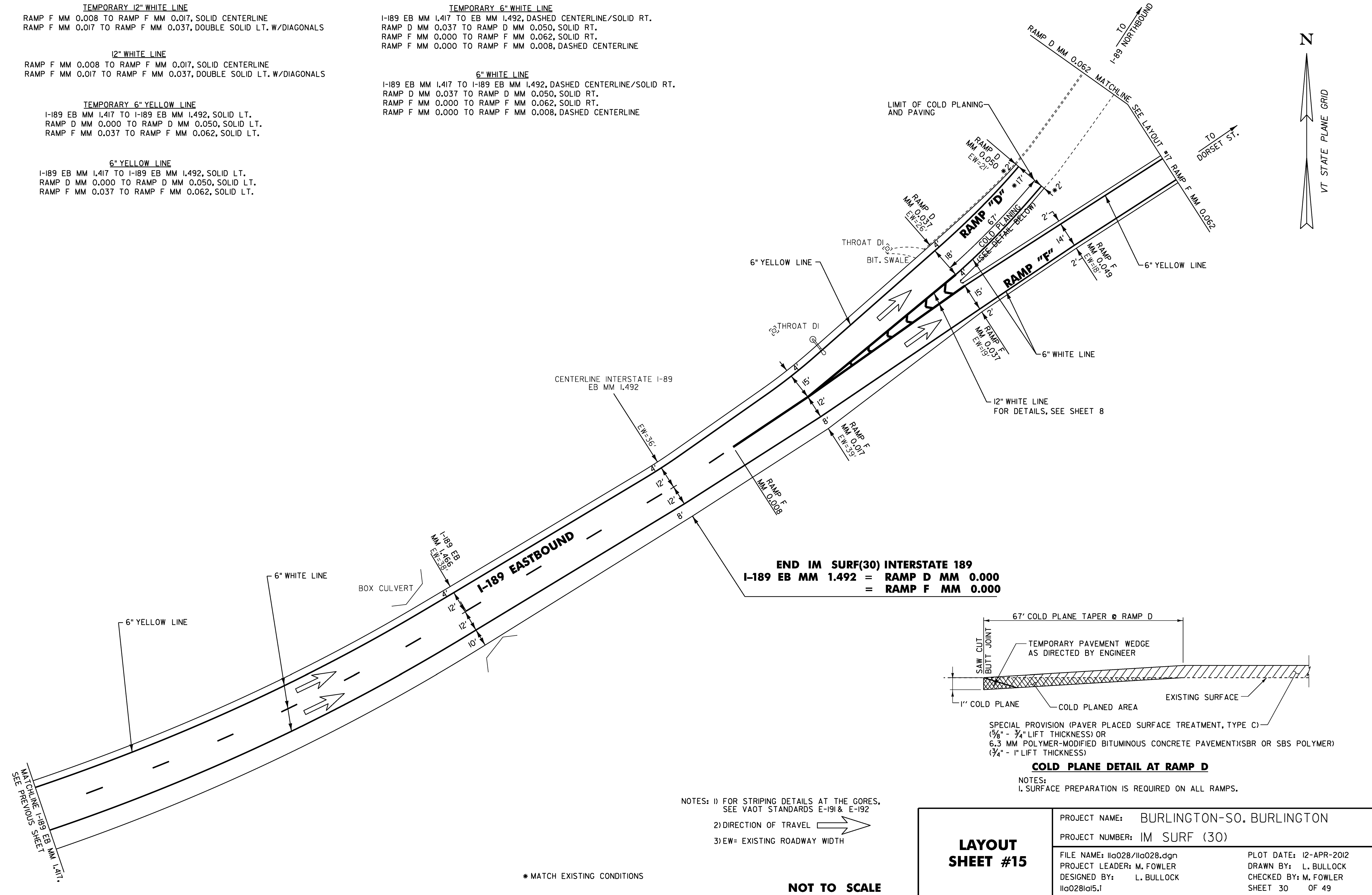
**12" WHITE LINE**  
 RAMP F MM 0.008 TO RAMP F MM 0.017, SOLID CENTERLINE  
 RAMP F MM 0.017 TO RAMP F MM 0.037, DOUBLE SOLID LT. W/DIAGONALS

**TEMPORARY 6" YELLOW LINE**  
 I-189 EB MM 1.417 TO I-189 EB MM 1.492, SOLID LT.  
 RAMP D MM 0.000 TO RAMP D MM 0.050, SOLID LT.  
 RAMP F MM 0.037 TO RAMP F MM 0.062, SOLID LT.

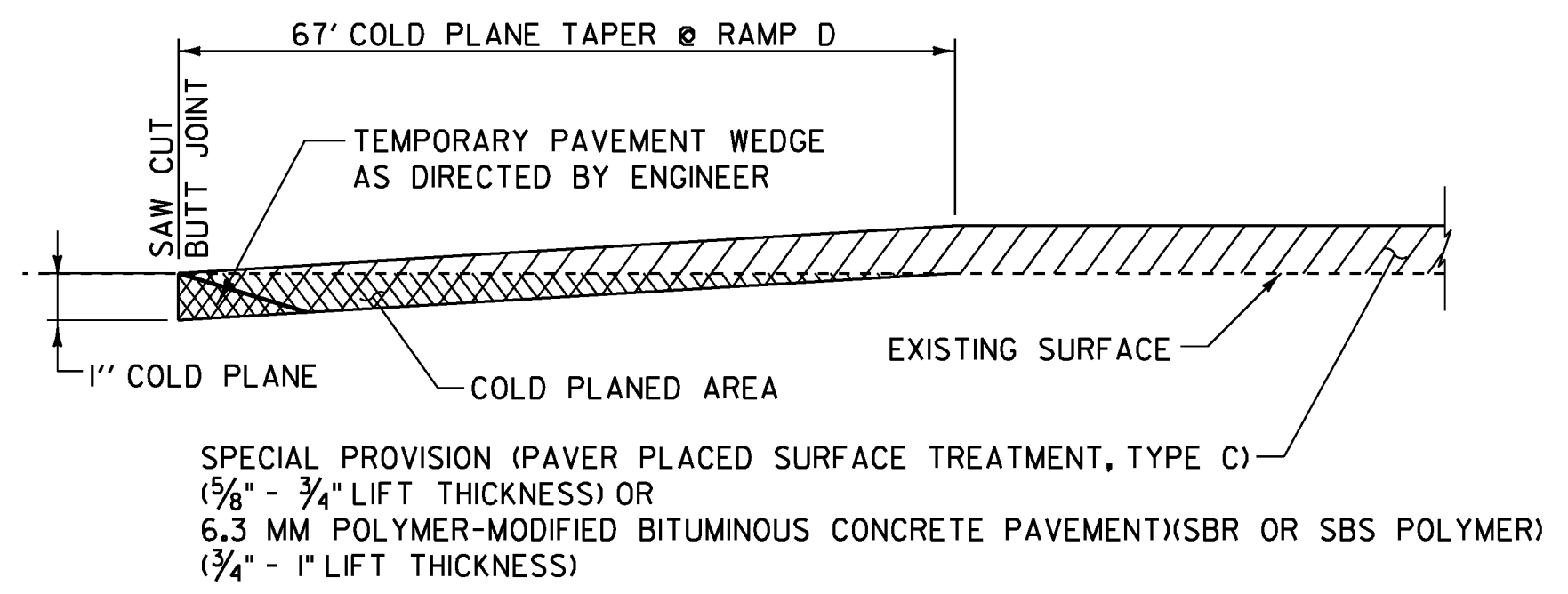
**6" YELLOW LINE**  
 I-189 EB MM 1.417 TO I-189 EB MM 1.492, SOLID LT.  
 RAMP D MM 0.000 TO RAMP D MM 0.050, SOLID LT.  
 RAMP F MM 0.037 TO RAMP F MM 0.062, SOLID LT.

**TEMPORARY 6" WHITE LINE**  
 I-189 EB MM 1.417 TO EB MM 1.492, DASHED CENTERLINE/SOLID RT.  
 RAMP D MM 0.037 TO RAMP D MM 0.050, SOLID RT.  
 RAMP F MM 0.000 TO RAMP F MM 0.062, SOLID RT.  
 RAMP F MM 0.000 TO RAMP F MM 0.008, DASHED CENTERLINE

**6" WHITE LINE**  
 I-189 EB MM 1.417 TO I-189 EB MM 1.492, DASHED CENTERLINE/SOLID RT.  
 RAMP D MM 0.037 TO RAMP D MM 0.050, SOLID RT.  
 RAMP F MM 0.000 TO RAMP F MM 0.062, SOLID RT.  
 RAMP F MM 0.000 TO RAMP F MM 0.008, DASHED CENTERLINE



**END IM SURF(30) INTERSTATE 189**  
 I-189 EB MM 1.492 = RAMP D MM 0.000  
 = RAMP F MM 0.000



NOTES:  
 1. SURFACE PREPARATION IS REQUIRED ON ALL RAMPS.

- NOTES: 1) FOR STRIPING DETAILS AT THE GORES, SEE VAOT STANDARDS E-191 & E-192  
 2) DIRECTION OF TRAVEL →  
 3) EW= EXISTING ROADWAY WIDTH

<b>LAYOUT SHEET #15</b>	PROJECT NAME: BURLINGTON-SO. BURLINGTON
	PROJECT NUMBER: IM SURF (30)
	FILE NAME: Ila028/Ila028.dgn
	PLOT DATE: 12-APR-2012
PROJECT LEADER: M. FOWLER	DRAWN BY: L. BULLOCK
DESIGNED BY: L. BULLOCK	CHECKED BY: M. FOWLER
Ila028Ia15.1	SHEET 30 OF 49

\* MATCH EXISTING CONDITIONS

**NOT TO SCALE**

**TEMPORARY 12" WHITE LINE**  
 RAMP E MM 0.006 TO RAMP E MM 0.031, SOLID CENTERLINE  
 RAMP E MM 0.031 TO RAMP E MM 0.052, DOUBLE SOLID LT.

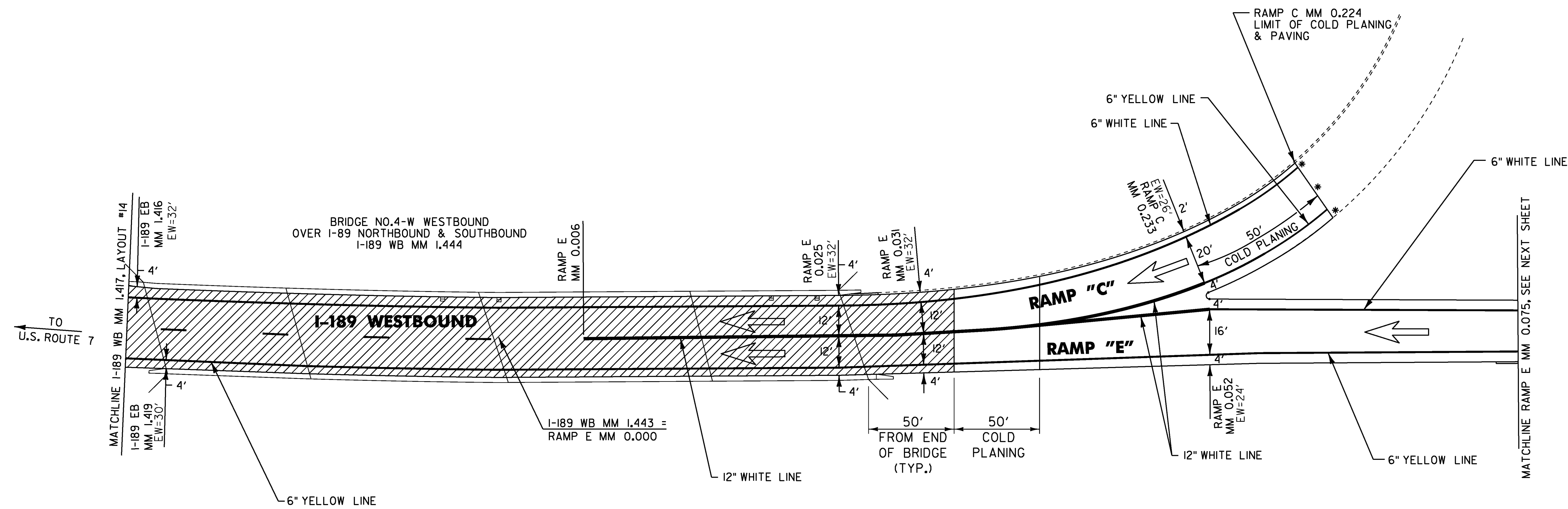
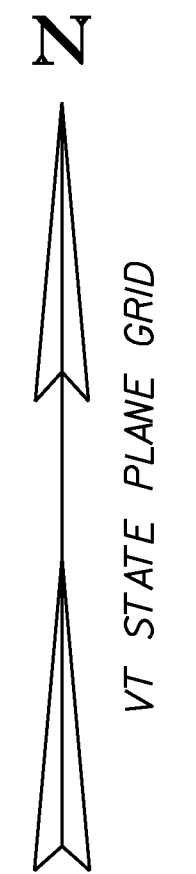
**12" WHITE LINE**  
 RAMP E MM 0.006 TO RAMP E MM 0.031, SOLID CENTERLINE  
 RAMP E MM 0.031 TO RAMP E MM 0.052, DOUBLE SOLID LT.

**TEMPORARY 6" WHITE LINE**  
 I-189 WB MM 1.417 TO I-189 WB MM 1.443, DASHED CENTERLINE/SOLID LT.  
 RAMP C MM 0.224 TO RAMP C MM 0.233, SOLID RT.  
 RAMP E MM 0.000 TO RAMP E MM 0.006, DASHED CENTERLINE  
 RAMP E MM 0.000 TO RAMP E MM 0.031, SOLID LT  
 RAMP E MM 0.052 TO RAMP E MM 0.075, SOLID LT  
 RAMP E MM 0.031 TO RAMP E MM 0.050, SOLID FAR LT.

**6" WHITE LINE**  
 I-189 WB MM 1.417 TO I-189 WB MM 1.443, DASHED CENTERLINE/SOLID LT.  
 RAMP C MM 0.224 TO RAMP C MM 0.233, SOLID RT.  
 RAMP E MM 0.000 TO RAMP E MM 0.006, DASHED CENTERLINE  
 RAMP E MM 0.000 TO RAMP E MM 0.031, SOLID LT  
 RAMP E MM 0.052 TO RAMP E MM 0.075, SOLID LT  
 RAMP E MM 0.031 TO RAMP E MM 0.050, SOLID FAR LT.

**TEMPORARY 6" YELLOW LINE**  
 I-189 WB MM 1.417 TO I-189 WB MM 1.443, SOLID RT.  
 RAMP E MM 0.000 TO RAMP E MM 0.075, SOLID RT.  
 RAMP C MM 0.224 TO RAMP C MM 0.233, SOLID LT.

**6" YELLOW LINE**  
 I-189 WB MM 1.417 TO I-189 WB MM 1.443, SOLID RT.  
 RAMP E MM 0.000 TO RAMP E MM 0.075, SOLID RT.  
 RAMP C MM 0.224 TO RAMP C MM 0.233, SOLID LT.



**LEGEND**

NO COLD PLANING OR PAVING IN THIS AREA

- NOTES: 1) FOR STRIPING DETAILS AT THE GORES, SEE VAOT STANDARDS E-191 & E-192  
 2) DIRECTION OF TRAVEL   
 3) EW= EXISTING ROADWAY WIDTH  
 4) BRIDGE 4W HAS A MEMBRANE PROJECT TO BE CONSTRUCTED BY JUNE 30, 2012 AND, THEREFORE, WILL BE GAPPED OUT OF THIS PROJECT.

\* MATCH EXISTING CONDITIONS

**LAYOUT SHEET #16**

**NOT TO SCALE**

PROJECT NAME: BURLINGTON-SO. BURLINGTON	
PROJECT NUMBER: IM SURF (30)	
FILE NAME: Ila028/Ila028.dgn	PLOT DATE: 12-APR-2012
PROJECT LEADER: M. FOWLER	DRAWN BY: L. BULLOCK
DESIGNED BY: L. BULLOCK	CHECKED BY: M. FOWLER
Ila028Ia16.I	SHEET 31 OF 49

**TEMPORARY CROSSWALK MARKING**  
 RAMP F MM 0.160 LT. & RT.  
 SLIP RAMP E 0.179 LT.

**CROSSWALK MARKING**  
 RAMP F MM 0.160 LT. & RT.  
 SLIP RAMP E 0.179 LT.

**LETTER OR SYMBOL**  
 RAMP F MM 0.069 CENTERLINE - "SIGNAL"  
 RAMP F MM 0.077 CENTERLINE - "AHEAD"  
 RAMP F MM 0.125 LT. - "ONLY" (2)  
 RAMP F MM 0.127, RT.  
 RAMP F MM 0.127, RT.  
 RAMP F MM 0.127, LT. - (2)  
 RAMP F MM 0.154, LT. - "ONLY" (2)  
 RAMP F MM 0.156, RT.  
 RAMP F MM 0.156, RT.  
 RAMP F MM 0.156, LT. - (2)

**TEMPORARY LETTER OR SYMBOL**  
 RAMP F MM 0.070 CENTERLINE - "SIGNAL"  
 RAMP F MM 0.077 CENTERLINE - "AHEAD"  
 RAMP F MM 0.127 RT.  
 RAMP F MM 0.127 RT.  
 RAMP F MM 0.127 LT. - (2)  
 RAMP F MM 0.156 RT.  
 RAMP F MM 0.156 RT.  
 RAMP F MM 0.156 LT. - (2)

**TEMPORARY 6" YELLOW LINE**  
 RAMP E MM 0.075 TO RAMP E MM 0.178, SOLID RT.  
 RAMP E MM 0.176 TO RAMP E MM 0.182, SOLID FAR LT.  
 RAMP F MM 0.062 TO RAMP F MM 0.158, SOLID LT.

**6" YELLOW LINE**  
 RAMP E MM 0.075 TO RAMP E MM 0.178, SOLID RT.  
 RAMP E MM 0.176 TO RAMP E MM 0.182, SOLID FAR LT.  
 RAMP F MM 0.062 TO RAMP F MM 0.158, SOLID LT.

**12" WHITE LINE**  
 RAMP E MM 0.149 TO RAMP E MM 0.162, SOLID CENTERLINE  
 RAMP E MM 0.162 TO RAMP E MM 0.176, SOLID CENTERLINE & SOLID LT. W/DIAGONALS

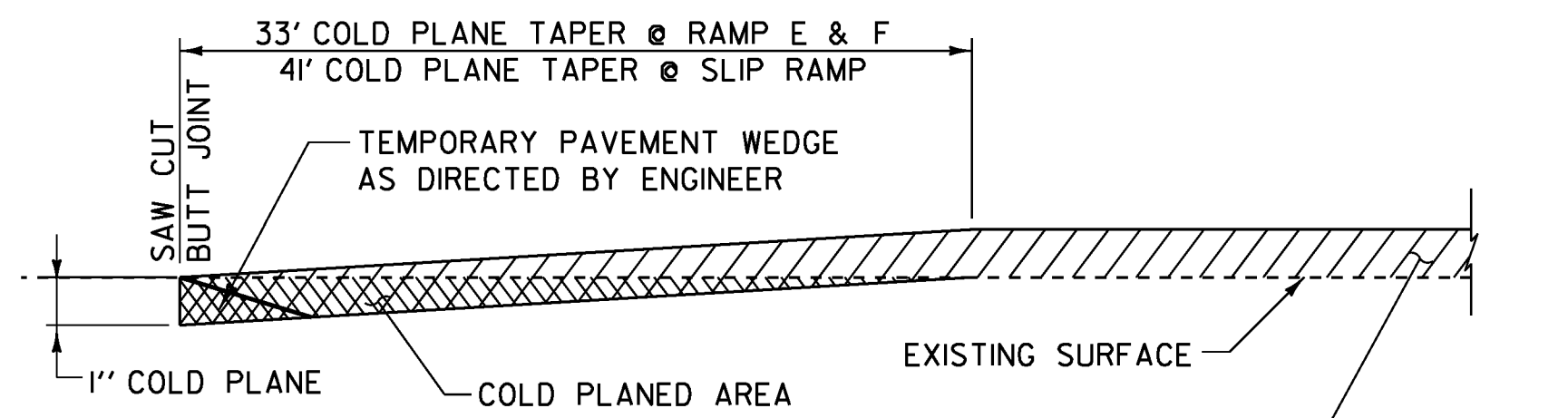
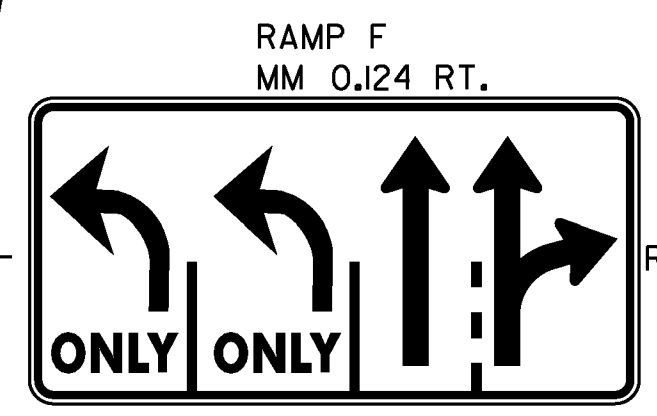
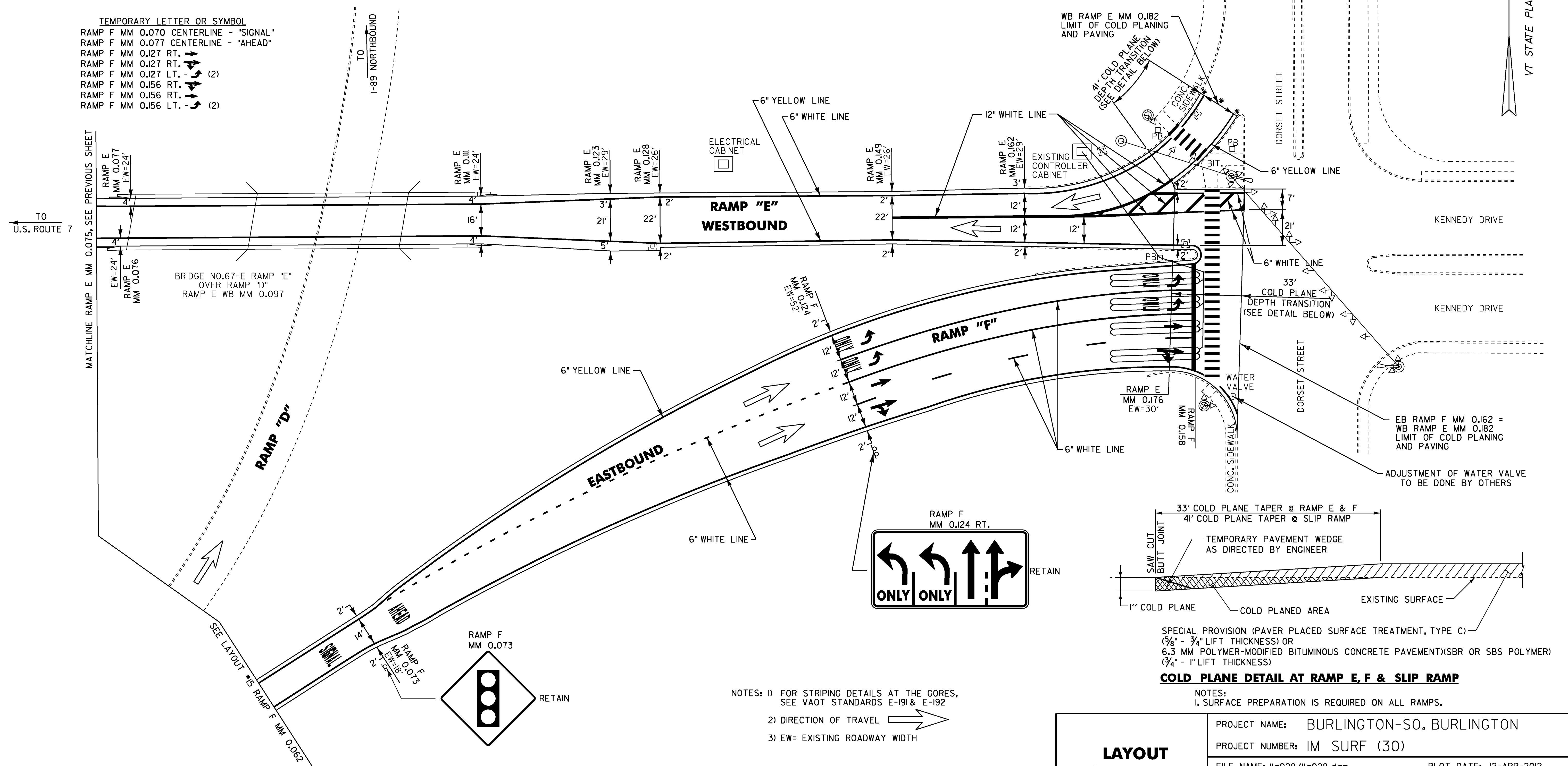
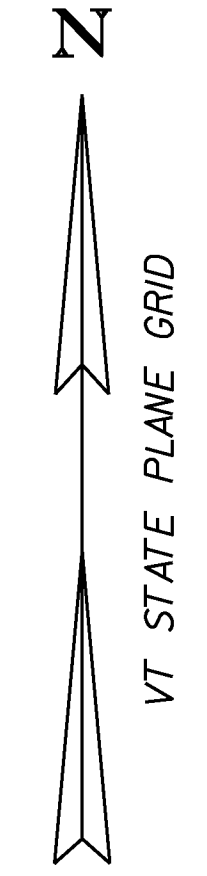
**TEMPORARY 12" WHITE LINE**  
 RAMP E MM 0.149 TO RAMP E MM 0.162, SOLID CENTERLINE  
 RAMP E MM 0.162 TO RAMP E MM 0.176, SOLID CENTERLINE & SOLID LT. W/DIAGONALS

**TEMPORARY 6" WHITE LINE**  
 RAMP E MM 0.075 TO RAMP E MM 0.182, SOLID LT.  
 RAMP E MM 0.176 TO RAMP E MM 0.182, SOLID LT. & CENTERLINE (BREAK FOR CROSSWALK)  
 RAMP F MM 0.062 TO RAMP F MM 0.162, SOLID RT. (BREAK FOR CROSSWALK)  
 RAMP F MM 0.077 TO RAMP F MM 0.124, DOTTED CENTERLINE  
 RAMP F MM 0.124 TO RAMP F MM 0.158, SOLID LT. & RT./DASHED RT.

**6" WHITE LINE**  
 RAMP E MM 0.075 TO RAMP E MM 0.182, SOLID LT.  
 RAMP E MM 0.176 TO RAMP E MM 0.182, SOLID LT. & CENTERLINE (BREAK FOR CROSSWALK)  
 RAMP F MM 0.062 TO RAMP F MM 0.162, SOLID RT. (BREAK FOR CROSSWALK)  
 RAMP F MM 0.077 TO RAMP F MM 0.124, DOTTED CENTERLINE  
 RAMP F MM 0.124 TO RAMP F MM 0.158, SOLID LT. & RT./DASHED RT.

**TEMPORARY 24" STOP BAR**  
 RAMP F MM 0.158 LT. & RT.

**24" STOP BAR**  
 RAMP F MM 0.158 LT. & RT.



**SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C)**  
 (5/8" - 3/4" LIFT THICKNESS) OR  
 6.3 MM POLYMER-MODIFIED BITUMINOUS CONCRETE PAVEMENT (SBR OR SBS POLYMER)  
 (3/4" - 1" LIFT THICKNESS)

**COLD PLANE DETAIL AT RAMP E, F & SLIP RAMP**

NOTES:  
 1. SURFACE PREPARATION IS REQUIRED ON ALL RAMPS.

NOTES: 1) FOR STRIPING DETAILS AT THE GORES, SEE VAOT STANDARDS E-191 & E-192  
 2) DIRECTION OF TRAVEL  
 3) EW= EXISTING ROADWAY WIDTH

\* MATCH EXISTING CONDITIONS

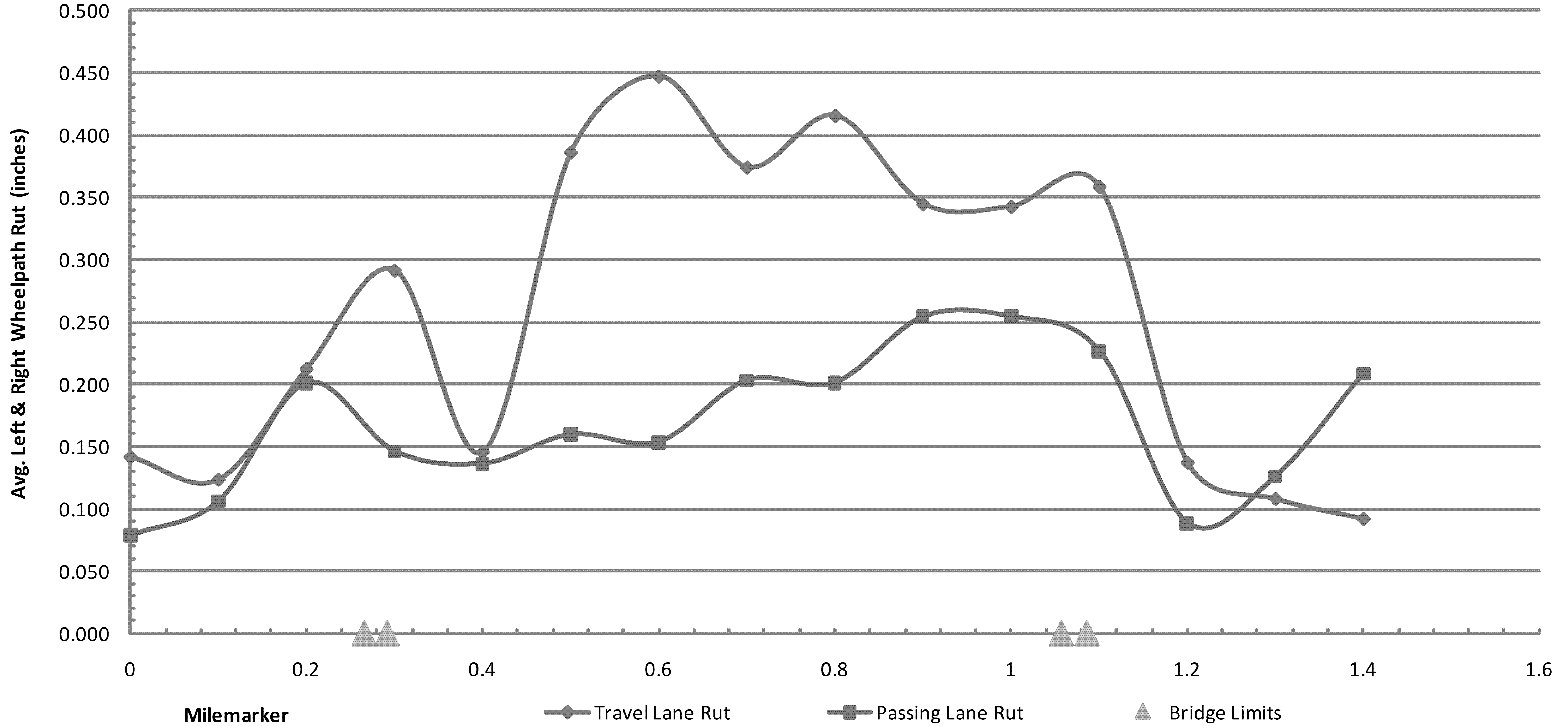
NOT TO SCALE

<b>LAYOUT SHEET #17</b>	PROJECT NAME: BURLINGTON-SO. BURLINGTON
	PROJECT NUMBER: IM SURF (30)
	FILE NAME: Ila028/Ila028.dgn
	PROJECT LEADER: M. FOWLER
DESIGNED BY: L. BULLOCK	DRAWN BY: L. BULLOCK
Ila028Ia17.i	CHECKED BY: M. FOWLER
	SHEET 32 OF 49

# I-189 Burlington-So. Burlington IM Surf(30) Eastbound Lane Rut

Profiled 9/1/11

EB Travel Lane Avg. Rut = 0.262", EB Passing Lane Avg. Rut = 0.169"



FOR INFORMATIONAL PURPOSES ONLY

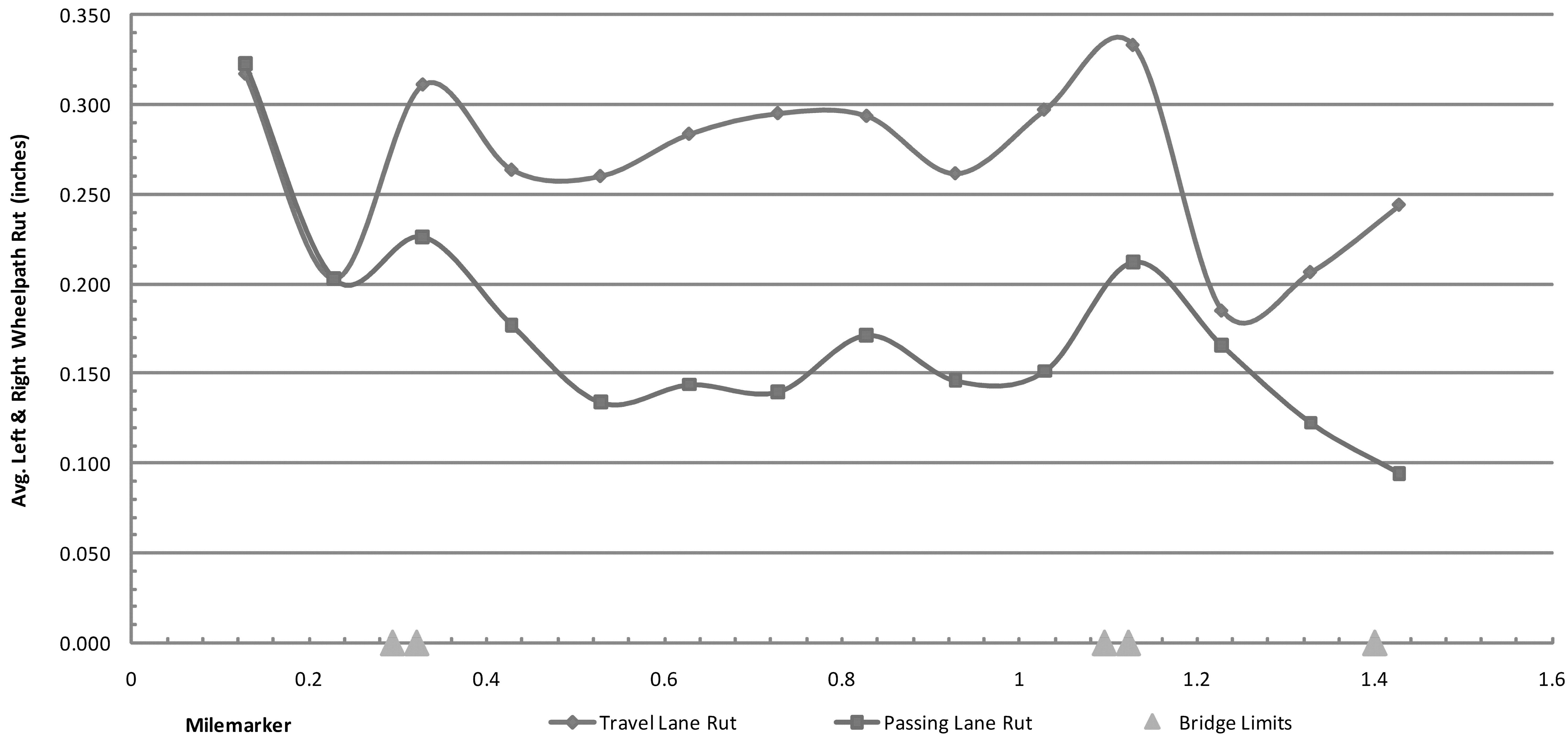
NOT TO SCALE

<b>EASTBOUND RUTTING DATA INFORMATION</b>	PROJECT NAME: BURLINGTON-SO. BURLINGTON
	PROJECT NUMBER: IM SURF (30)
	FILE NAME: I1a028/I1a028.dgn
	PLOT DATE: 12-APR-2012
PROJECT LEADER: M. FOWLER	DRAWN BY: L. BULLOCK
DESIGNED BY: L. BULLOCK	CHECKED BY: M. FOWLER
I1a028MR02.1	SHEET 33 OF 49

# I-189 Burlington-So. Burlington IM Surf(30) Westbound Lane Rut

Profiled 9/1/11

EB Travel Lane Avg. Rut = 0.268", EB Passing Lane Avg. Rut = 0.172"



FOR INFORMATIONAL PURPOSES ONLY

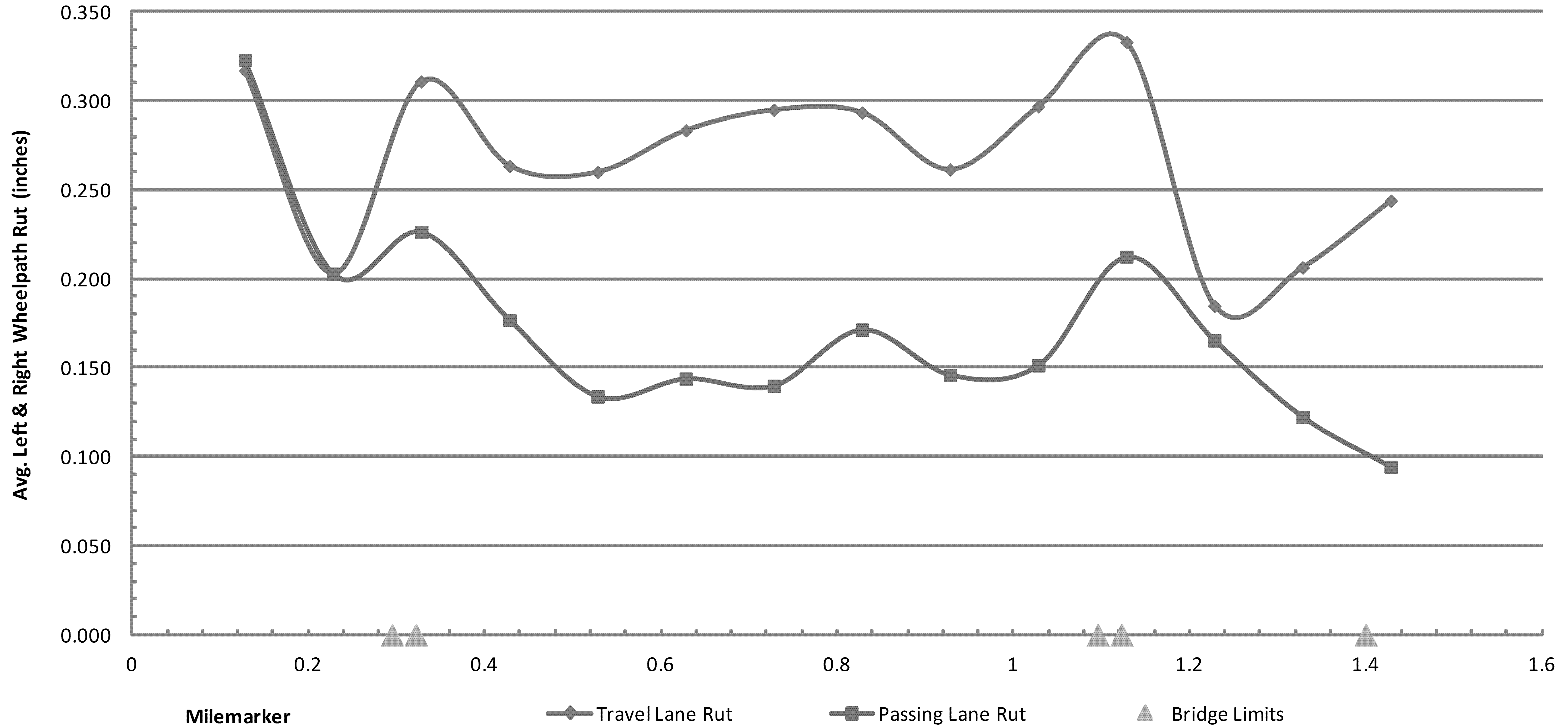
NOT TO SCALE

<b>WESTBOUND RUTTING DATA INFORMATION</b>	PROJECT NAME: BURLINGTON-SO. BURLINGTON
	PROJECT NUMBER: IM SURF (30)
	FILE NAME: Ila028/Ila028.dgn
	DESIGNED BY: L. BULLOCK
	PROJECT LEADER: M. FOWLER
	CHECKED BY: M. FOWLER
	SHEET 34 OF 49
	PLOT DATE: 12-APR-2012

# I-189 Burlington-So. Burlington IM Surf(30) Westbound Lane Rut

Profiled 9/1/11

WB Travel Lane Avg. Rut = 0.268", WB Passing Lane Avg. Rut = 0.172"



Milemarker

◆ Travel Lane Rut

■ Passing Lane Rut

▲ Bridge Limits

FOR INFORMATIONAL PURPOSES ONLY

NOT TO SCALE

**EASTBOUND  
ROUGHNESS  
DATA  
INFORMATION**

PROJECT NAME: BURLINGTON-SO. BURLINGTON

PROJECT NUMBER: IM SURF (30)

FILE NAME: Ila028/Ila028.dgn

PROJECT LEADER: M. FOWLER

DESIGNED BY: L. BULLOCK

Ila028MR02.1

PLOT DATE: 12-APR-2012

DRAWN BY: L. BULLOCK

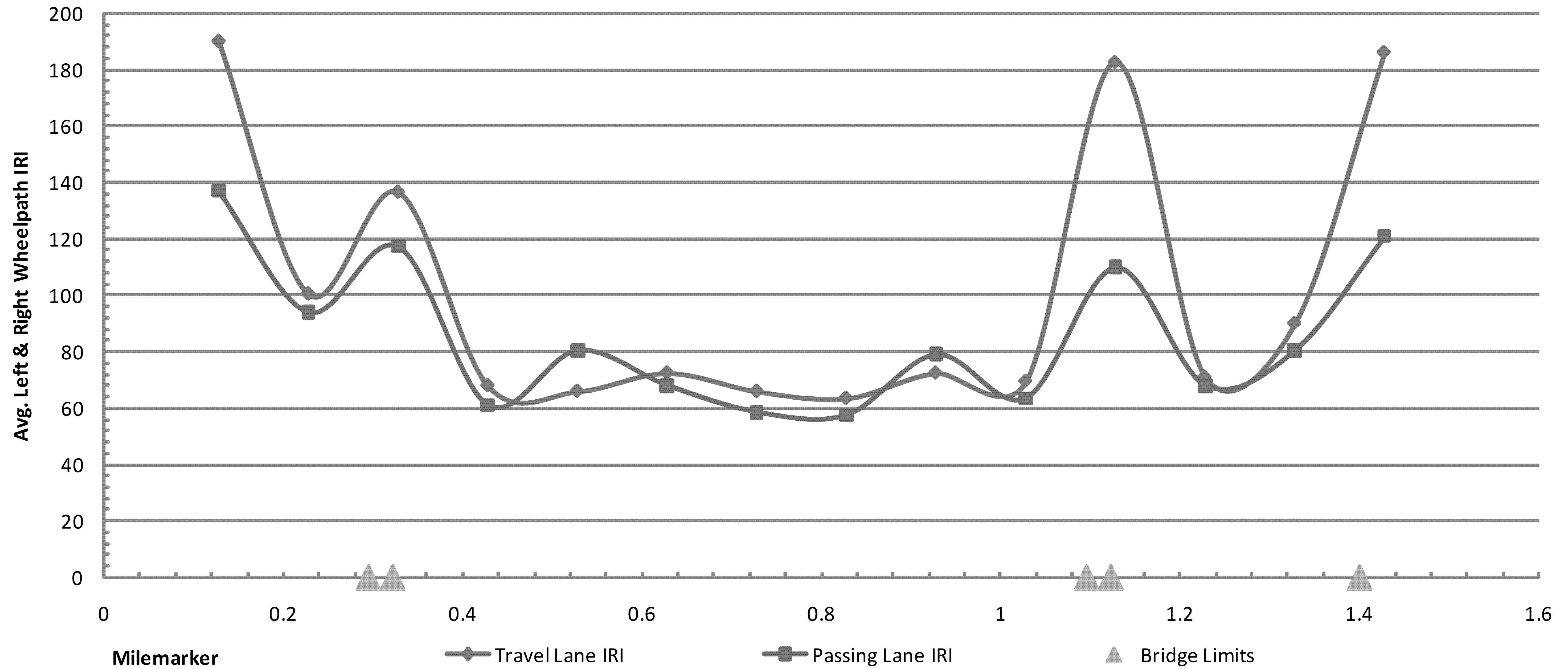
CHECKED BY: M. FOWLER

SHEET 35 OF 49

# I-189 Burlington-So. Burlington IM Surf(30) Westbound Lane Ride

Profiled 9/1/11

WB Travel Lane Avg. IRI = 102.5, WB Passing Lane Avg. IRI = 85.4, Project Avg. IRI = 93.9



FOR INFORMATIONAL PURPOSES ONLY

NOT TO SCALE

**WESTBOUND  
ROUGHNESS  
DATA  
INFORMATION**

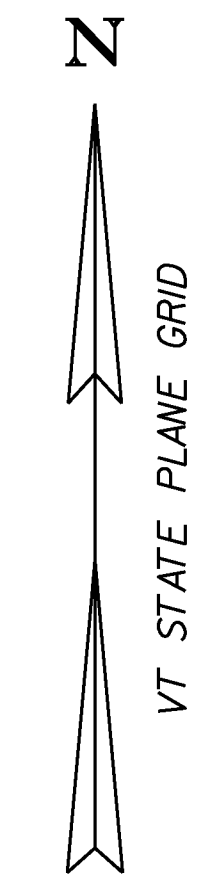
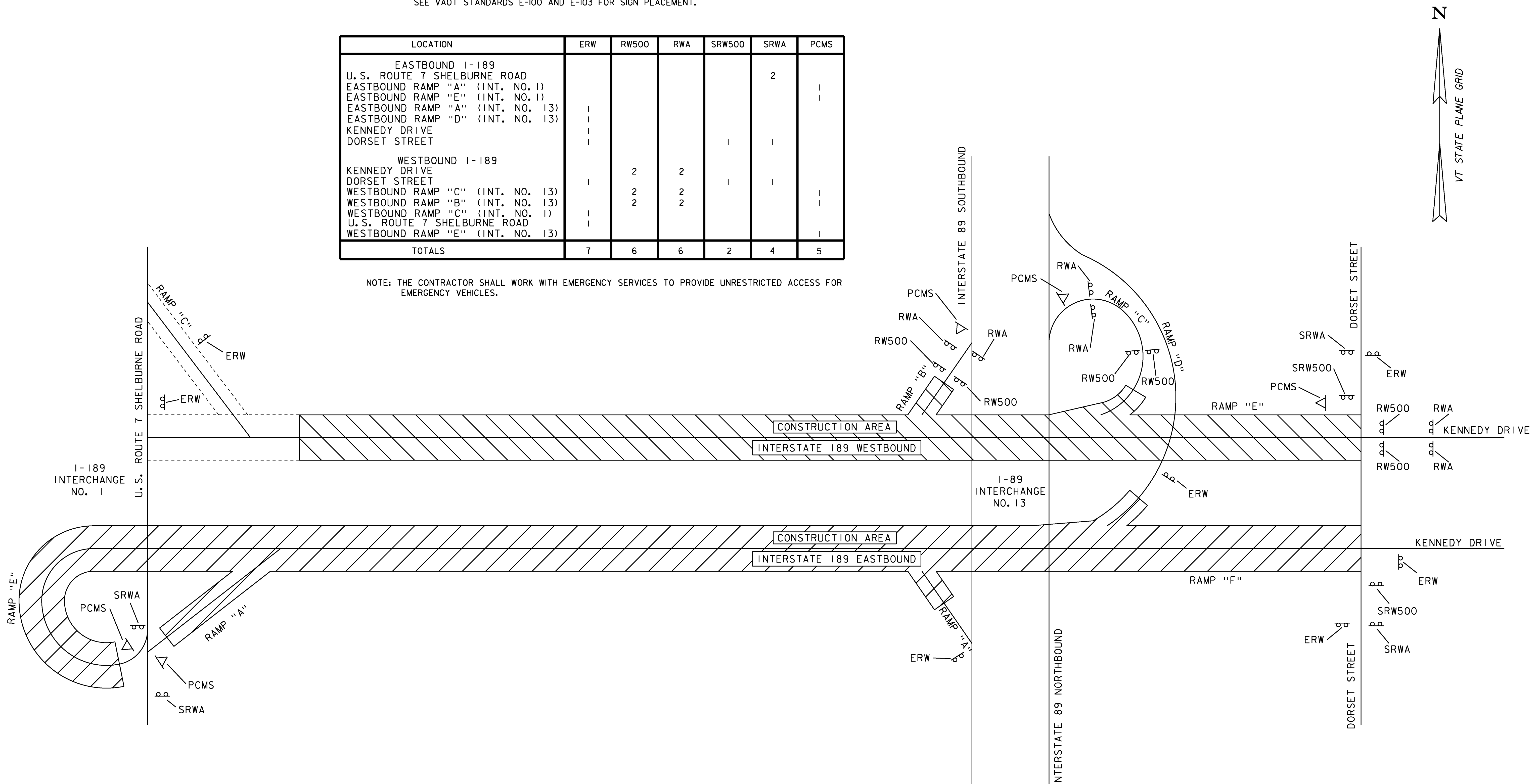
PROJECT NAME: BURLINGTON-SO. BURLINGTON	PLOT DATE: 12-APR-2012
PROJECT NUMBER: IM SURF (30)	DRAWN BY: L. BULLOCK
FILE NAME: I1a028/I1a028.dgn	CHECKED BY: M. FOWLER
PROJECT LEADER: M. FOWLER	SHEET 36 OF 49
DESIGNED BY: L. BULLOCK	
I1a028MR02.1	

**CONSTRUCTION APPROACH SIGNING**

SEE VAOT STANDARDS E-100 AND E-103 FOR SIGN PLACEMENT.

LOCATION	ERW	RW500	RWA	SRW500	SRWA	PCMS
EASTBOUND I-189						
U.S. ROUTE 7 SHELBURNE ROAD					2	
EASTBOUND RAMP "A" (INT. NO. 1)						1
EASTBOUND RAMP "E" (INT. NO. 1)						1
EASTBOUND RAMP "A" (INT. NO. 13)						
EASTBOUND RAMP "D" (INT. NO. 13)						
WESTBOUND I-189						
KENNEDY DRIVE		2	2			
DORSET STREET				1	1	
WESTBOUND RAMP "C" (INT. NO. 13)		2	2			1
WESTBOUND RAMP "B" (INT. NO. 13)		2	2			1
WESTBOUND RAMP "C" (INT. NO. 1)						
U.S. ROUTE 7 SHELBURNE ROAD						1
WESTBOUND RAMP "E" (INT. NO. 13)						
<b>TOTALS</b>	<b>7</b>	<b>6</b>	<b>6</b>	<b>2</b>	<b>4</b>	<b>5</b>

NOTE: THE CONTRACTOR SHALL WORK WITH EMERGENCY SERVICES TO PROVIDE UNRESTRICTED ACCESS FOR EMERGENCY VEHICLES.



**LEGEND**

- ERW = END ROAD WORK
- RW500 = ROAD WORK 500 FT
- RWA = ROAD WORK AHEAD
- SRW500 = SIDE ROAD WORK 500 FT
- SRWA = SIDE ROAD WORK AHEAD
- ◁ = PORTABLE CHANGEABLE MESSAGE SIGN

NOT TO SCALE

**CONSTRUCTION APPROACH SIGNING**

PROJECT NAME: BURLINGTON-SO. BURLINGTON  
 PROJECT NUMBER: IM SURF (30)  
 FILE NAME: Ila028/Ila028.dgn  
 PROJECT LEADER: M. FOWLER  
 DESIGNED BY: L. BULLOCK  
 Ila028con.1

PLOT DATE: 12-APR-2012  
 DRAWN BY: L. BULLOCK  
 CHECKED BY: M. FOWLER  
 SHEET 37 OF 49

INDEX OF SHEETS  
SEE SHEET 2

# STATE OF VERMONT AGENCY OF TRANSPORTATION

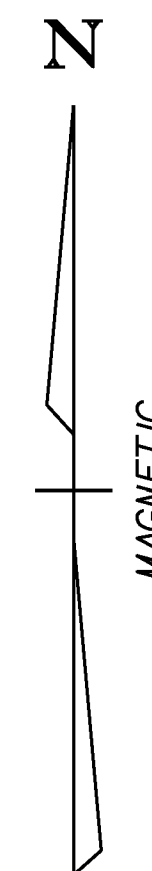
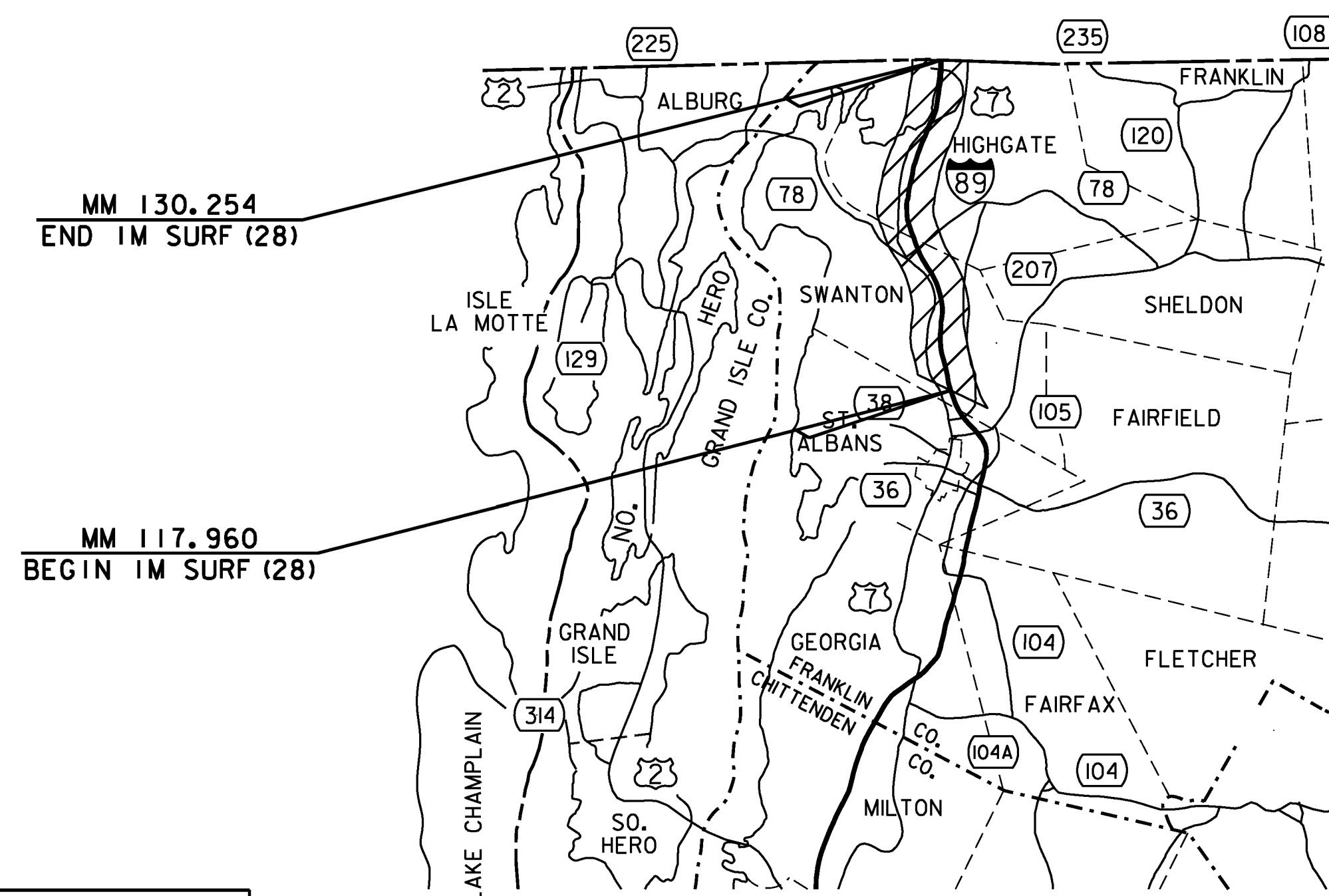
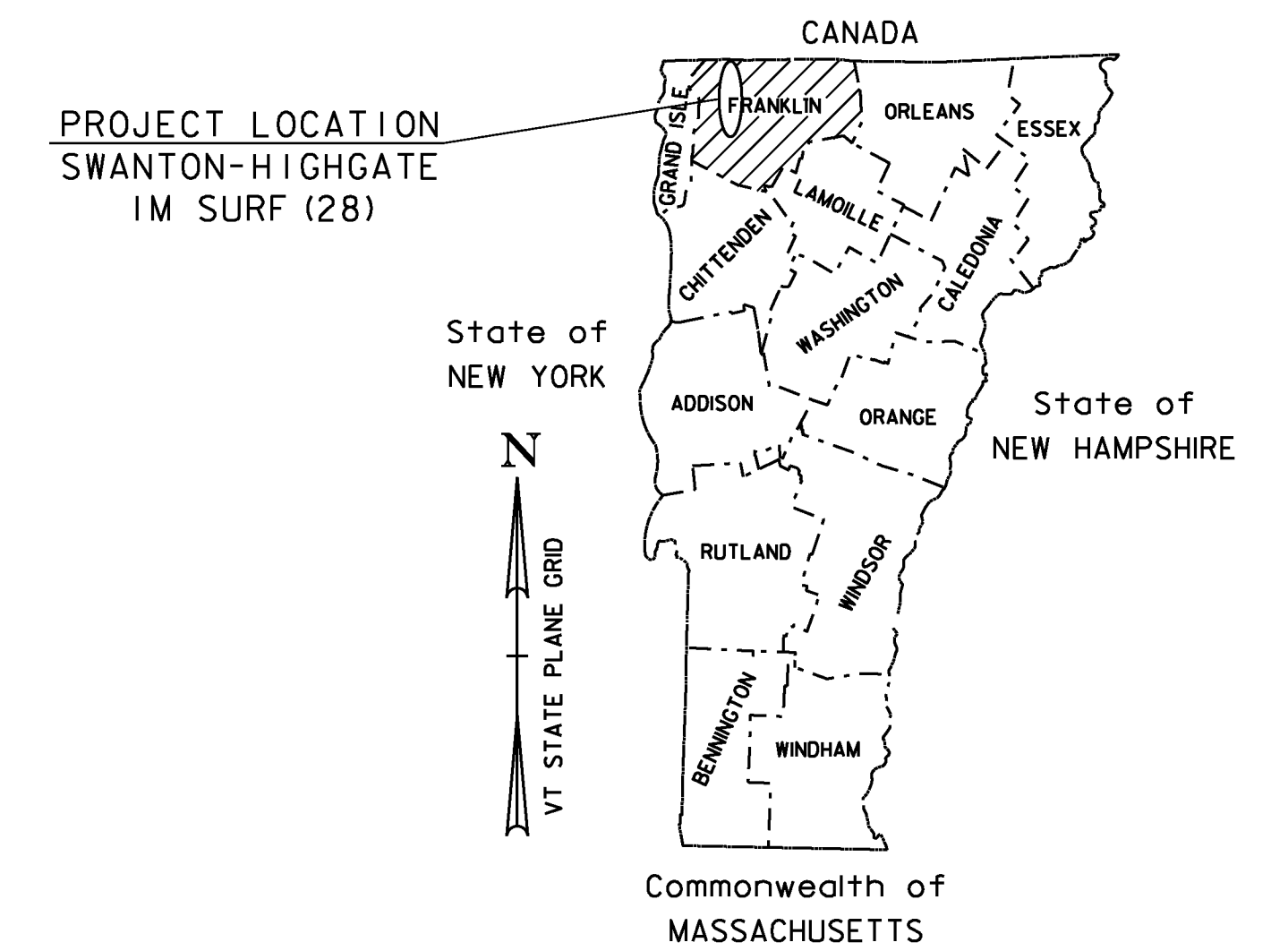


## PROPOSED IMPROVEMENT TOWNS OF SWANTON AND HIGHGATE COUNTY OF FRANKLIN INTERSTATE ROUTE 89 NORTHBOUND

BEGINNING IN THE TOWN OF SWANTON IN THE NORTHBOUND LANE AT APPROXIMATE MM 117.960 AND EXTENDING NORTHERLY ALONG INTERSTATE 89 FOR A DISTANCE OF APPROXIMATELY 12.294 MILES (64,912 FEET) TO APPROXIMATELY MM 130.254 AT THE HIGHGATE TOWN LINE AND THE CANADIAN BORDER.

LENGTH OF ROADWAY = 64,912 FEET = 12.294 MILES  
LENGTH OF PROJECT = 64,912 FEET = 12.294 MILES

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES SURFACE PREPARATION INVOLVING PATCHING, POTHOLE REPAIR, AND CRACK-SEALING AS NECESSARY; OVERLAYING WITH A THIN BITUMINOUS SURFACE TREATMENT ON THE EXISTING INTERSTATE TYPICAL AND APPLICABLE PAVEMENT MARKINGS.



TRAFFIC DATA

1-89 NORTHBOUND	AADT		DHV		ESALs	
	2012	2022	2012	2022	2012 - 2022	2022 - 2032
SECTION #1 (BEGIN PROJECT TO EXIT 21)	4800	5400	660	740	3,515,000	8,446,000
SECTION #2 (EXIT 21 TO EXIT 22)	1600	1800	220	250	1,324,000	3,193,000
SECTION #3 (EXIT 22 TO END PROJECT)	1700	1900	230	260	2,686,000	6,422,000

QUALITY ASSURANCE PROGRAM: LEVEL 1

CONVENTIONAL SYMBOLS

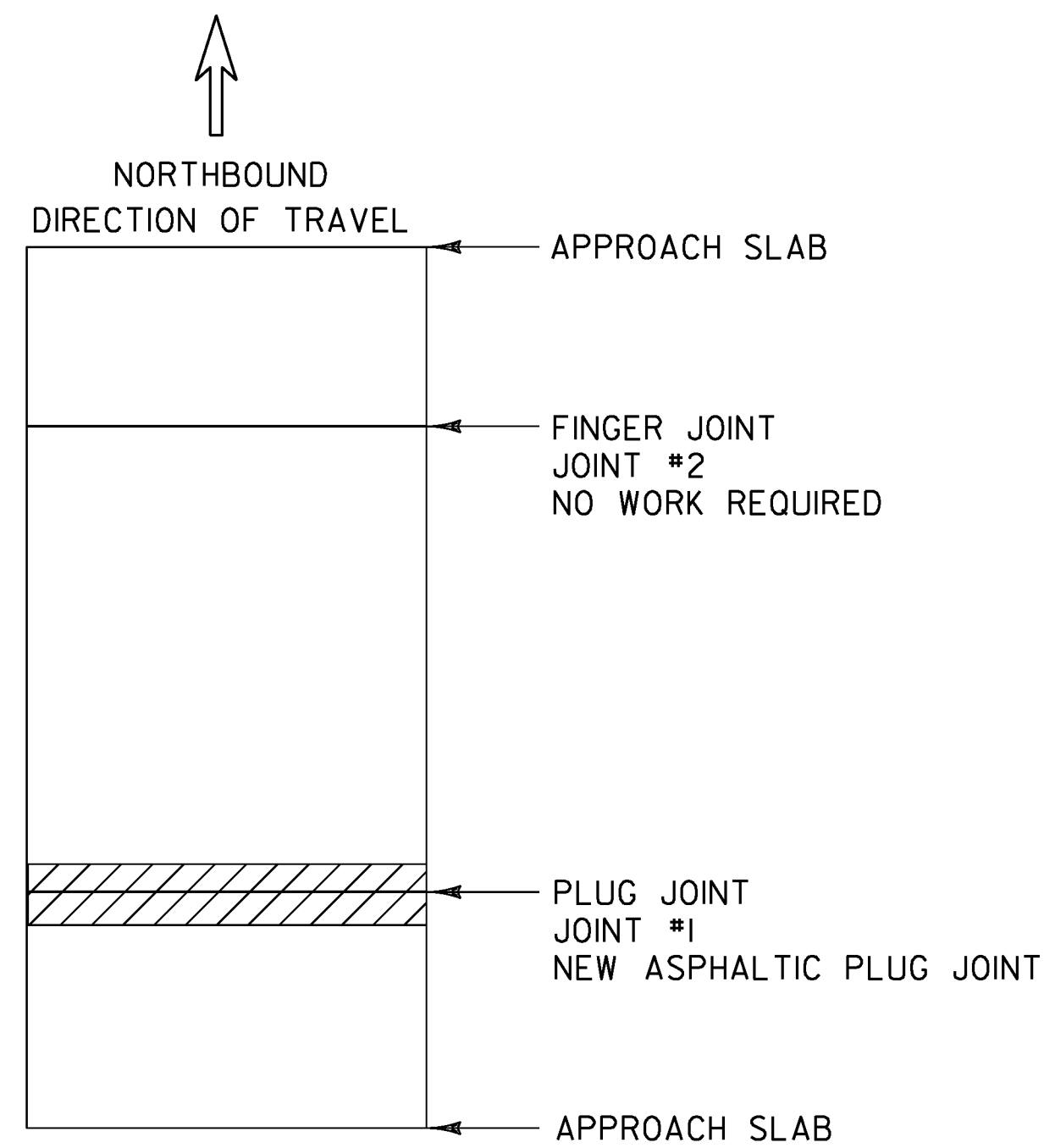
COUNTY LINE	
TOWN LINE	
LIMITS OF ACCESS	
POINT OF ACCESS	
FENCE LINE	
STONE WALL	
TRAVELED WAY	
GUARD RAIL	
RAILROAD	
SURVEY LINE	
CULVERT	
POWER POLE	
TELEPHONE POLE	
TREES	
CONTROL OF ACCESS	
PROPERTY LINE	
R.O.W. TAKING LINE	
SLOPE RIGHTS	
TOP OF CUT	
TOE OF SLOPE	

SURVEYED BY :	N/A
SURVEYED DATE :	N/A
DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

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

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

PROJECT MANAGER : M. FOWLER  
PROJECT NAME : SWANTON-HIGHGATE  
PROJECT NUMBER : IM SURF (28)

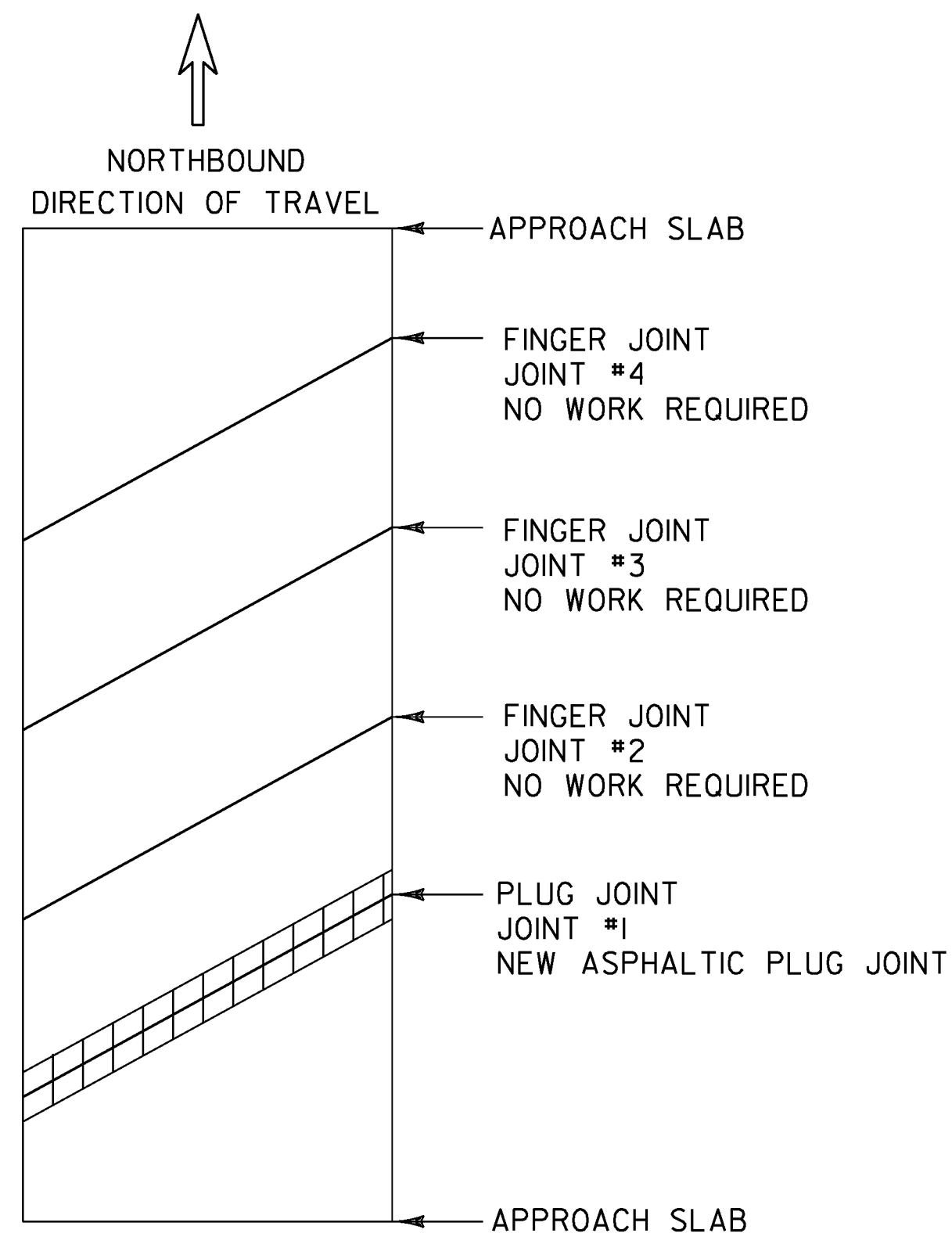


**BRIDGE 94N**

MM 121.338

LENGTH OF ASPHALTIC PLUG JOINTS:  
JOINT #1 - 38'

TOTAL = 38'

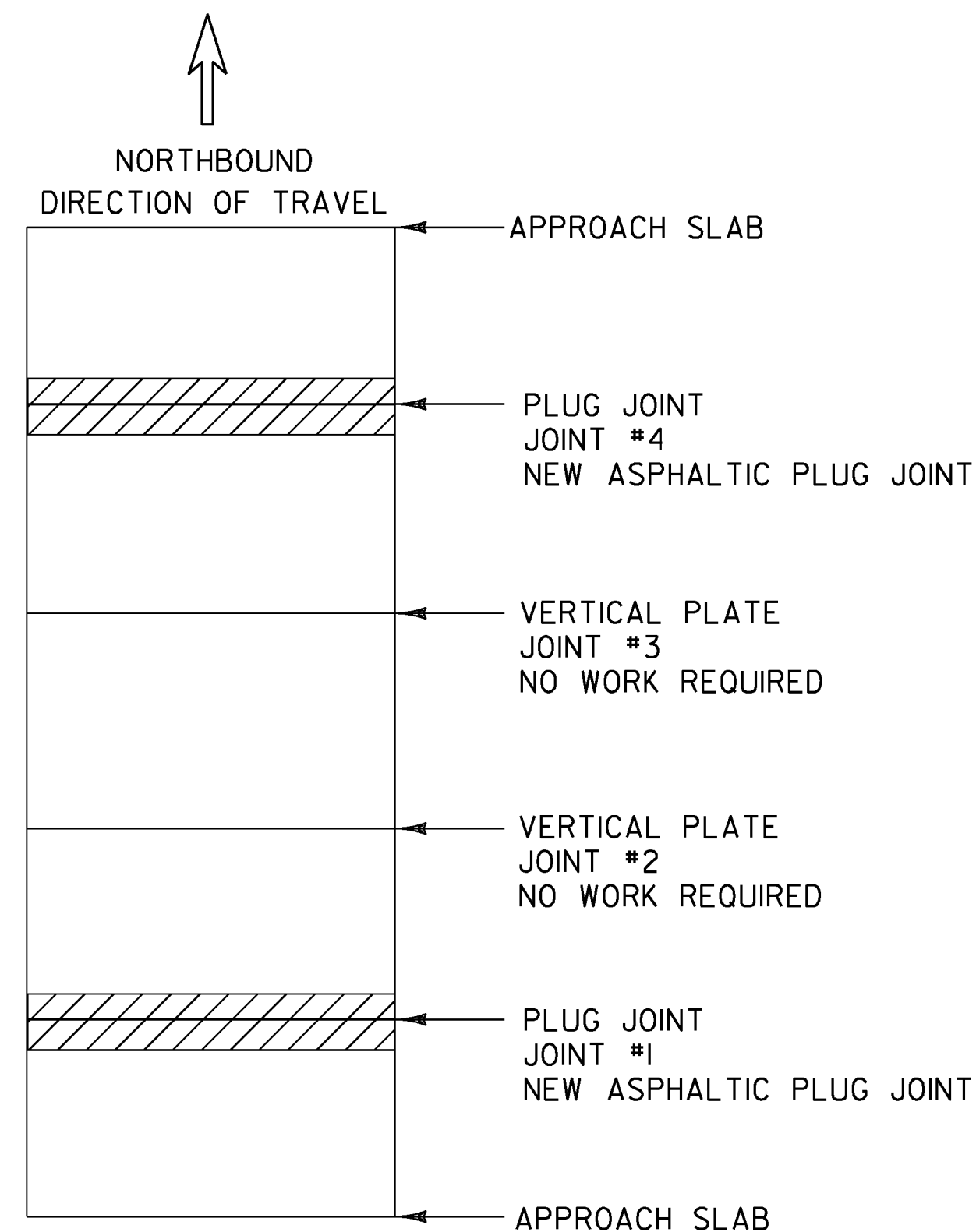


**BRIDGE 96N**

MM 122.794

LENGTH OF ASPHALTIC PLUG JOINTS:  
JOINT #1 - 30'

TOTAL = 30'

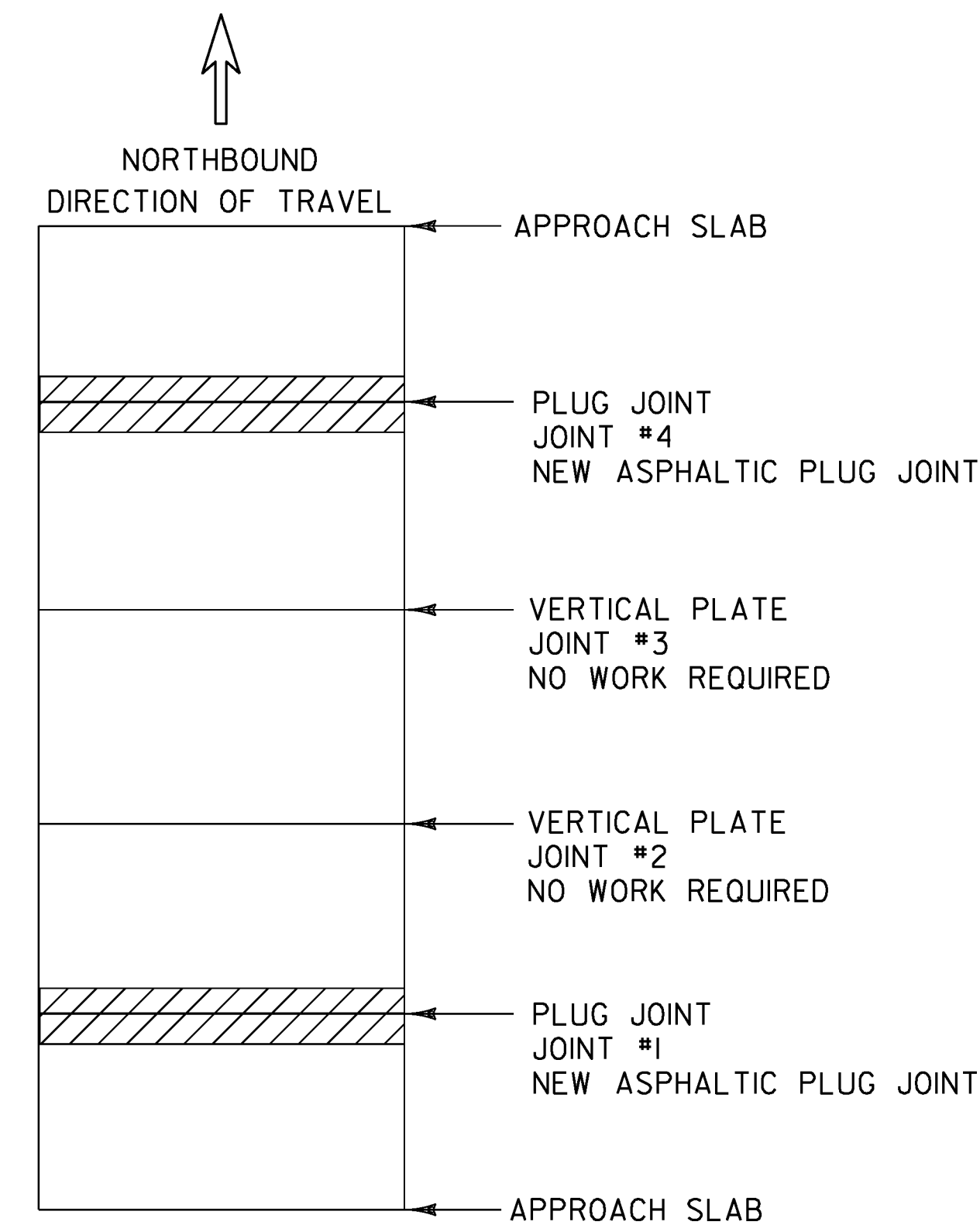


**BRIDGE 97N**

MM 123.135

LENGTH OF ASPHALTIC PLUG JOINTS:  
JOINT #1 - 30'  
JOINT #4 - 30'

TOTAL = 60'



**BRIDGE 98N**

MM 123.368

LENGTH OF ASPHALTIC PLUG JOINTS:  
JOINT #1 - 30'  
JOINT #4 - 30'

TOTAL = 60'

NOTES:

1. BRIDGE 100N AT MM 128.373 IS NOT INCLUDED UNDER THIS PROJECT AS IT HAS A NEW MEMBRANE AND JOINTS. AT SOUTHERLY END, EXTEND NEW PAVEMENT 10' PAST EXISTING JOINT AT APPROACH SLAB. AT NORTHERLY END, BEGIN NEW PAVEMENT AT FINGER PLATE JOINT.
2. SEE STRUCTURES DETAIL SD-516.10, BRIDGE JOINT ASPHALTIC PLUG FOR NOTES AND DETAILS.
3. AN ADDITIONAL ASPHALTIC PLUG JOINT SHALL BE INSTALLED AT APPROXIMATE MM 130.005 LT. AND MM 130.125 LT (SEE PAVEMENT MARKING DETAIL AT BORDER).

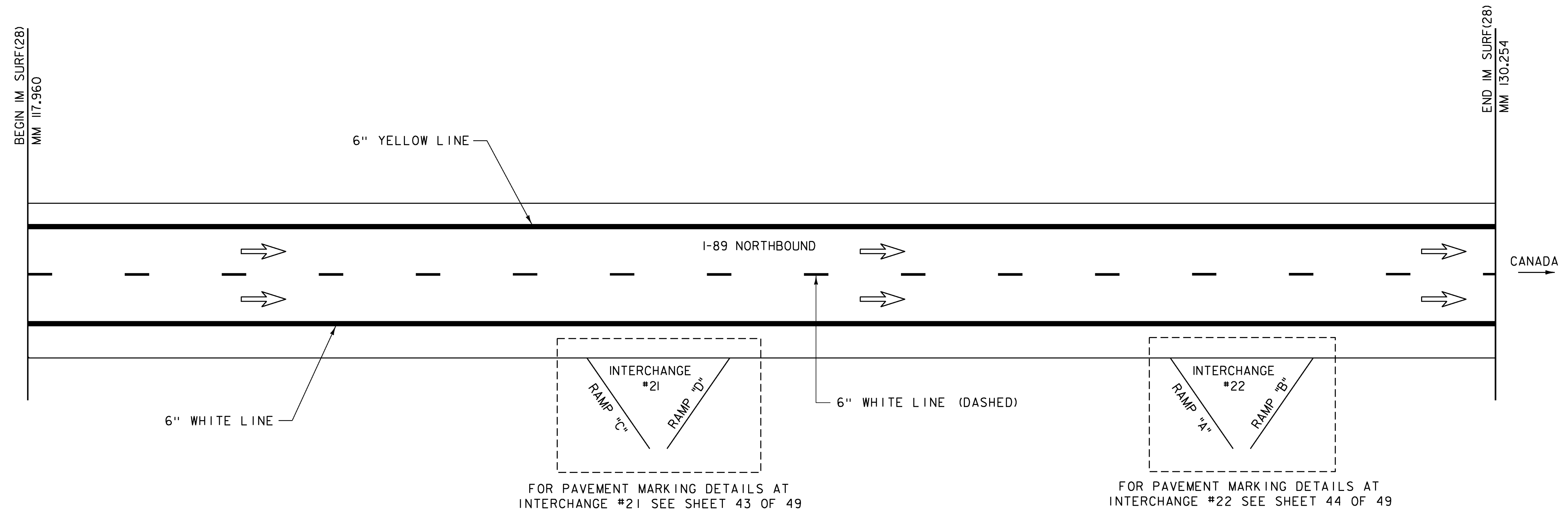
NOT TO SCALE

<b>BRIDGE DETAIL SHEET</b>	PROJECT NAME: SWANTON-HIGHGATE
	PROJECT NUMBER: IM SURF (28)
FILE NAME: 11a024.dgn	PLOT DATE: 12-APR-2012
PROJECT LEADER: M. FOWLER	DRAWN BY: BULLOCK
DESIGNED BY: BULLOCK	CHECKED BY: PAVT MGMT
11a024brd.1	SHEET 39 OF 49





**PAVEMENT MARKING LAYOUT**



6" WHITE LINE  
 MM 117.960 - MM 130.254 SOLID RT.  
 MM 117.960 - MM 130.254 DASHED CENTERLINE

TEMPORARY 6" WHITE LINE  
 MM 117.960 - MM 130.254 SOLID RT.  
 MM 117.960 - MM 130.254 DASHED CENTERLINE

6" YELLOW LINE  
 MM 117.960 - MM 130.254 SOLID LT.

TEMPORARY 6" YELLOW LINE  
 MM 117.960 - MM 130.254 SOLID LT.

- NOTE:
- TWO (2) APPLICATIONS OF FINAL PAVEMENT MARKINGS WILL BE REQUIRED. SEE SPECIAL PROVISIONS FOR COMPLETION DATE REQUIREMENTS.
  - FOR PAVEMENT MARKING DETAIL AT BORDER, SEE SHEET 45.

LEGEND

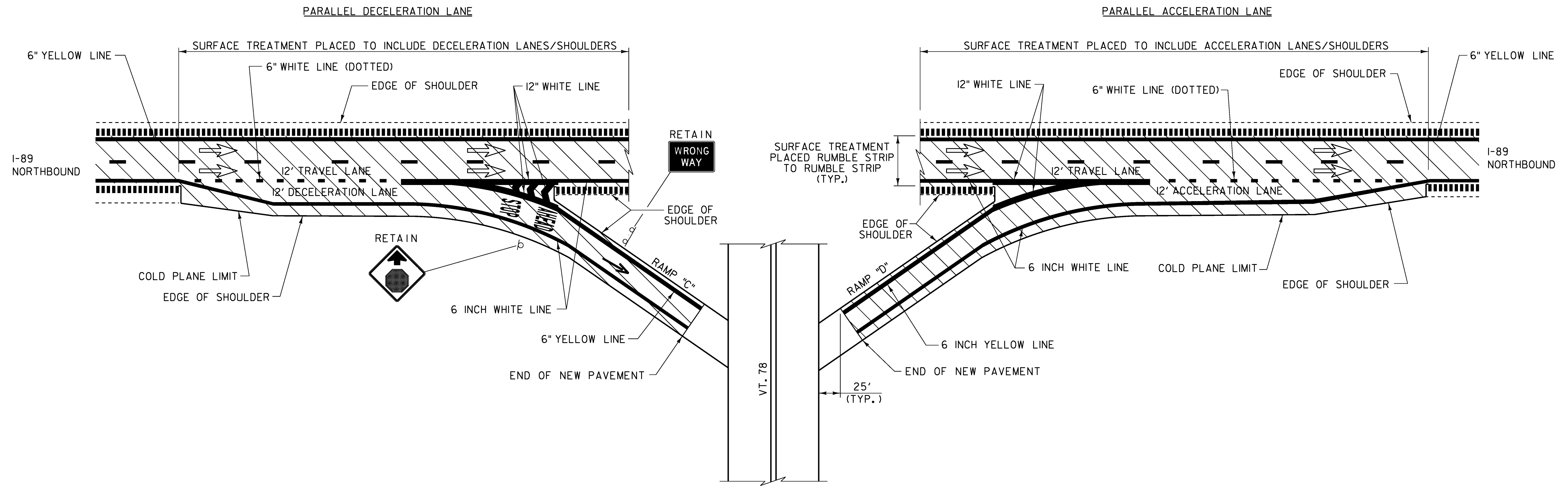
= DIRECTION OF TRAFFIC FLOW

NOT TO SCALE

**PAVEMENT MARKING LAYOUT**

PROJECT NAME: SWANTON-HIGHGATE	
PROJECT NUMBER: IM SURF (28)	
FILE NAME: Ila024/Ila024.dgn	PLOT DATE: 12-APR-2012
PROJECT LEADER: M. FOWLER	DRAWN BY: L. BULLOCK
DESIGNED BY: L. BULLOCK	CHECKED BY: M. FOWLER
Ila024pml.t	SHEET 42 OF 49

**INTERCHANGE #21 CONSTRUCTION DETAILS**



<p><u>6 INCH WHITE LINE</u></p> <p>RAMP "C" DOTTED LT. (112')</p> <p>RAMP "C" SOLID RT. (762')</p> <p>RAMP "D" SOLID RT. (852')</p> <p>RAMP "D" DOTTED LT. (73')</p>	<p><u>12 INCH WHITE LINE</u></p> <p>RAMP "C" DOUBLE SOLID RT. W/ DIAGONALS (324')</p> <p>RAMP "D" DOUBLE SOLID RT (370')</p>	<p><u>6 INCH YELLOW LINE</u></p> <p>RAMP "C" SOLID LT. (550')</p> <p>RAMP "D" SOLID LT. (607')</p>	<p><u>LETTER OR SYMBOL</u></p> <p>RAMP "C" - "STOP"</p> <p>RAMP "C" - "AHEAD"</p> <p>RAMP "C" - WRONG WAY ARROW SYMBOL →</p>
<p><u>TEMPORARY 6 INCH WHITE LINE</u></p> <p>RAMP "C" DOTTED (112')</p> <p>RAMP "C" SOLID RT. (762')</p> <p>RAMP "D" SOLID RT. (852')</p> <p>RAMP "D" DOTTED (73')</p>	<p><u>TEMPORARY 12 INCH WHITE LINE</u></p> <p>RAMP "C" DOUBLE SOLID RT. W/ DIAGONALS (324')</p> <p>RAMP "D" DOUBLE SOLID RT (370')</p>	<p><u>TEMPORARY 6 INCH YELLOW LINE</u></p> <p>RAMP "C" SOLID LT. (550')</p> <p>RAMP "D" SOLID LT. (607')</p>	<p><u>TEMPORARY LETTER OR SYMBOL</u></p> <p>RAMP "C" - "STOP"</p> <p>RAMP "C" - "AHEAD"</p> <p>RAMP "C" - WRONG WAY ARROW SYMBOL →</p>

**LEGEND**

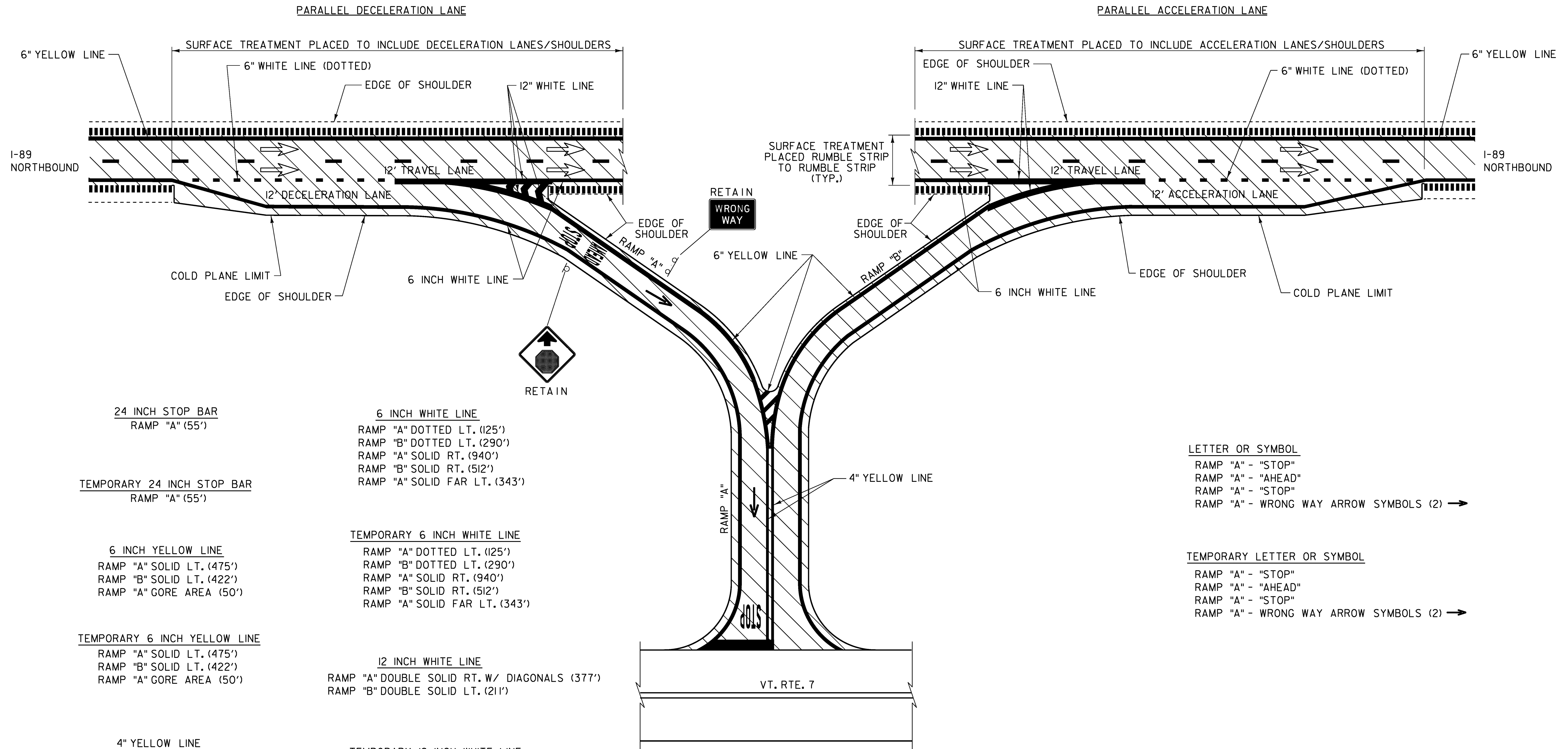
	= WORK AREA
	= DIRECTION OF TRAFFIC FLOW
	= EXISTING MILLED RUMBLE STRIPS

- NOTES:
- TWO (2) APPLICATIONS OF FINAL PAVEMENT MARKINGS WILL BE REQUIRED. SEE SPECIAL PROVISIONS FOR COMPLETION DATE REQUIREMENTS.
  - SEE STANDARDS E-191, E-192, AND E-193 FOR PAVEMENT MARKING DETAILS.

NOT TO SCALE

<p><b>INTERCHANGE #21 DETAIL SHEET</b></p>	PROJECT NAME: SWANTON-HIGHGATE
	PROJECT NUMBER: IM SURF (28)
FILE NAME: Ila024/Ila024.dgn	PLOT DATE: 12-APR-2012
PROJECT LEADER: M. FOWLER	DRAWN BY: PAVT MGMT
DESIGNED BY: PAVT MGMT	CHECKED BY: PAVT MGMT
Ila024tcd1.i	SHEET 43 OF 49

**INTERCHANGE #22 CONSTRUCTION DETAILS**



- 24 INCH STOP BAR  
RAMP "A" (55')
- TEMPORARY 24 INCH STOP BAR  
RAMP "A" (55')
- 6 INCH YELLOW LINE  
RAMP "A" SOLID LT. (475')  
RAMP "B" SOLID LT. (422')  
RAMP "A" GORE AREA (50')
- TEMPORARY 6 INCH YELLOW LINE  
RAMP "A" SOLID LT. (475')  
RAMP "B" SOLID LT. (422')  
RAMP "A" GORE AREA (50')
- 4" YELLOW LINE  
RAMP "A" DOUBLE SOLID LT. (265')
- TEMPORARY 4" YELLOW LINE  
RAMP "A" DOUBLE SOLID LT. (265')

- 6 INCH WHITE LINE  
RAMP "A" DOTTED LT. (125')  
RAMP "B" DOTTED LT. (290')  
RAMP "A" SOLID RT. (940')  
RAMP "B" SOLID RT. (512')  
RAMP "A" SOLID FAR LT. (343')
- TEMPORARY 6 INCH WHITE LINE  
RAMP "A" DOTTED LT. (125')  
RAMP "B" DOTTED LT. (290')  
RAMP "A" SOLID RT. (940')  
RAMP "B" SOLID RT. (512')  
RAMP "A" SOLID FAR LT. (343')
- 12 INCH WHITE LINE  
RAMP "A" DOUBLE SOLID RT. W/ DIAGONALS (377')  
RAMP "B" DOUBLE SOLID LT. (211')
- TEMPORARY 12 INCH WHITE LINE  
RAMP "A" DOUBLE SOLID RT. W/ DIAGONALS (377')  
RAMP "B" DOUBLE SOLID LT. (211')

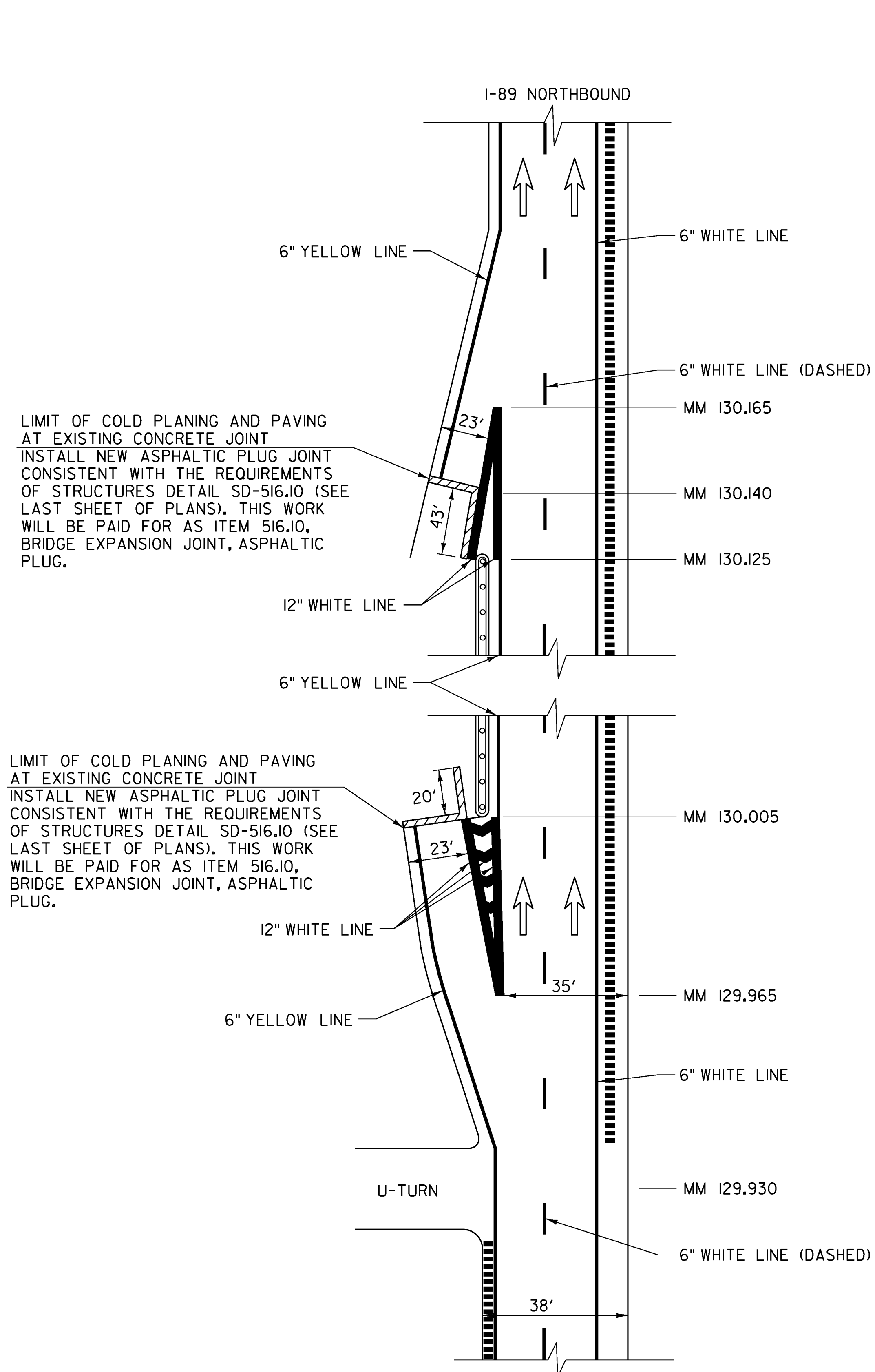
- LETTER OR SYMBOL
- RAMP "A" - "STOP"
  - RAMP "A" - "AHEAD"
  - RAMP "A" - "STOP"
  - RAMP "A" - WRONG WAY ARROW SYMBOLS (2) →
- TEMPORARY LETTER OR SYMBOL
- RAMP "A" - "STOP"
  - RAMP "A" - "AHEAD"
  - RAMP "A" - "STOP"
  - RAMP "A" - WRONG WAY ARROW SYMBOLS (2) →

- LEGEND**
- = WORK AREA
  - = DIRECTION OF TRAFFIC FLOW
  - = EXISTING MILLED RUMBLE STRIPS

- NOTES:**
1. TWO (2) APPLICATIONS OF FINAL PAVEMENT MARKINGS WILL BE REQUIRED. SEE SPECIAL PROVISIONS FOR COMPLETION DATE REQUIREMENTS.
  2. SEE STANDARDS E-191, E-192, AND E-193 FOR PAVEMENT MARKING DETAILS.

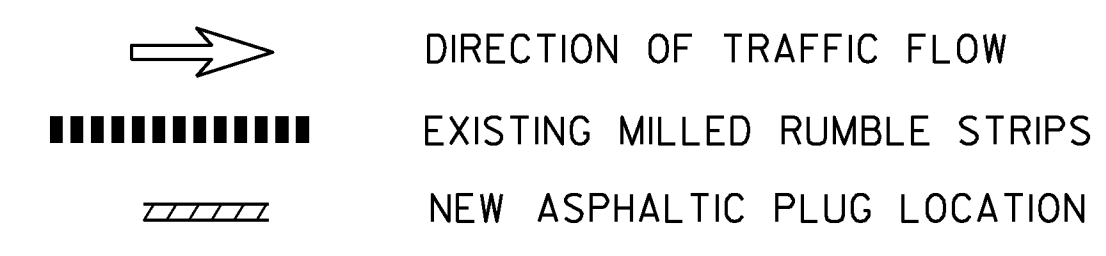
NOT TO SCALE

<b>INTERCHANGE #22 DETAIL SHEET</b>	PROJECT NAME: SWANTON-HIGHGATE
	PROJECT NUMBER: IM SURF (28)
FILE NAME: Ila024/Ila024.dgn	PLOT DATE: 12-APR-2012
PROJECT LEADER: M. FOWLER	DRAWN BY: PAVT MGMT
DESIGNED BY: PAVT MGMT	CHECKED BY: PAVT MGMT
Ila0241cd2.1	SHEET 44 OF 49



LIMIT OF COLD PLANING AND PAVING AT EXISTING CONCRETE JOINT  
 INSTALL NEW ASPHALTIC PLUG JOINT CONSISTENT WITH THE REQUIREMENTS OF STRUCTURES DETAIL SD-516.10 (SEE LAST SHEET OF PLANS). THIS WORK WILL BE PAID FOR AS ITEM 516.10, BRIDGE EXPANSION JOINT, ASPHALTIC PLUG.

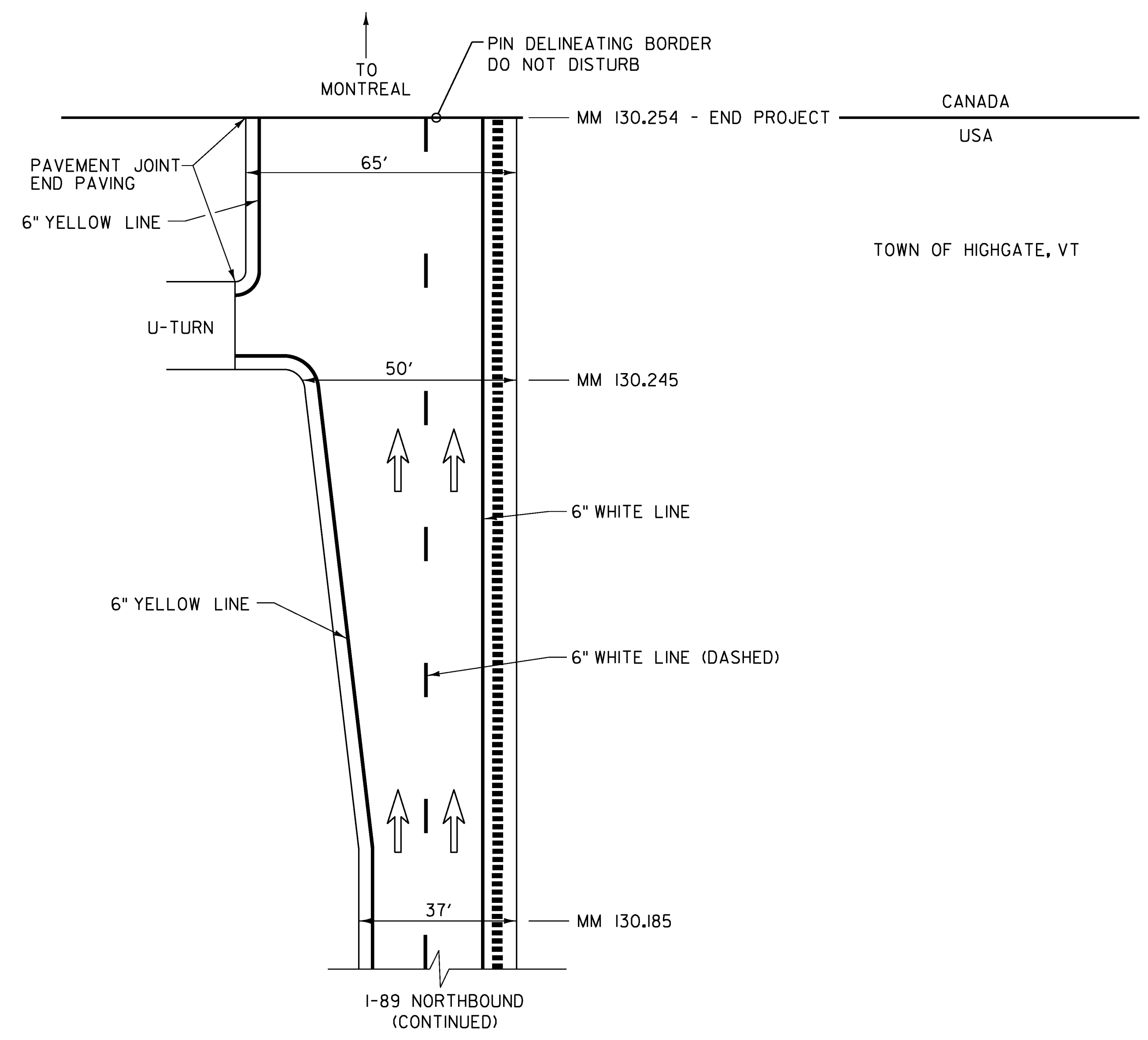
LIMIT OF COLD PLANING AND PAVING AT EXISTING CONCRETE JOINT  
 INSTALL NEW ASPHALTIC PLUG JOINT CONSISTENT WITH THE REQUIREMENTS OF STRUCTURES DETAIL SD-516.10 (SEE LAST SHEET OF PLANS). THIS WORK WILL BE PAID FOR AS ITEM 516.10, BRIDGE EXPANSION JOINT, ASPHALTIC PLUG.



NOT TO SCALE

12" WHITE LINE  
 MM 129.965 - MM 130.005 DOUBLE SOLID LT. W/ DIAGONALS  
 MM 130.125 - MM 130.165 DOUBLE SOLID LT.

TEMPORARY 12" WHITE LINE  
 MM 129.965 - MM 130.005 DOUBLE SOLID LT. W/ DIAGONALS  
 MM 130.125 - MM 130.165 DOUBLE SOLID LT.

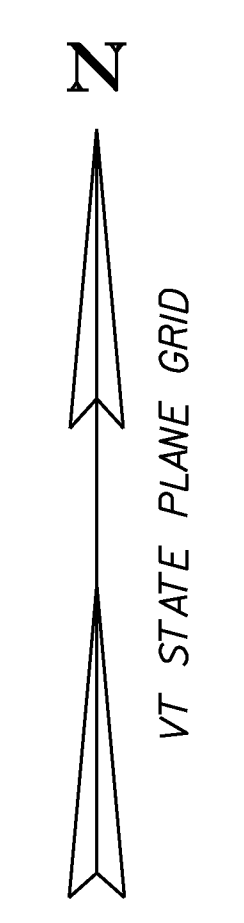


NOTES:

1. TWO (2) APPLICATIONS OF FINAL PAVEMENT MARKINGS WILL BE REQUIRED. SEE SPECIAL PROVISIONS FOR COMPLETION DATE REQUIREMENTS.
2. SEE STANDARDS E-191, E-192, AND E-193 FOR PAVEMENT MARKING DETAILS.
3. FOR ALL OTHER PAVEMENT MARKINGS IN THIS AREA SEE THE PAVEMENT MARKING LAYOUT SHEET.

**PAVEMENT MARKING DETAIL AT BORDER**

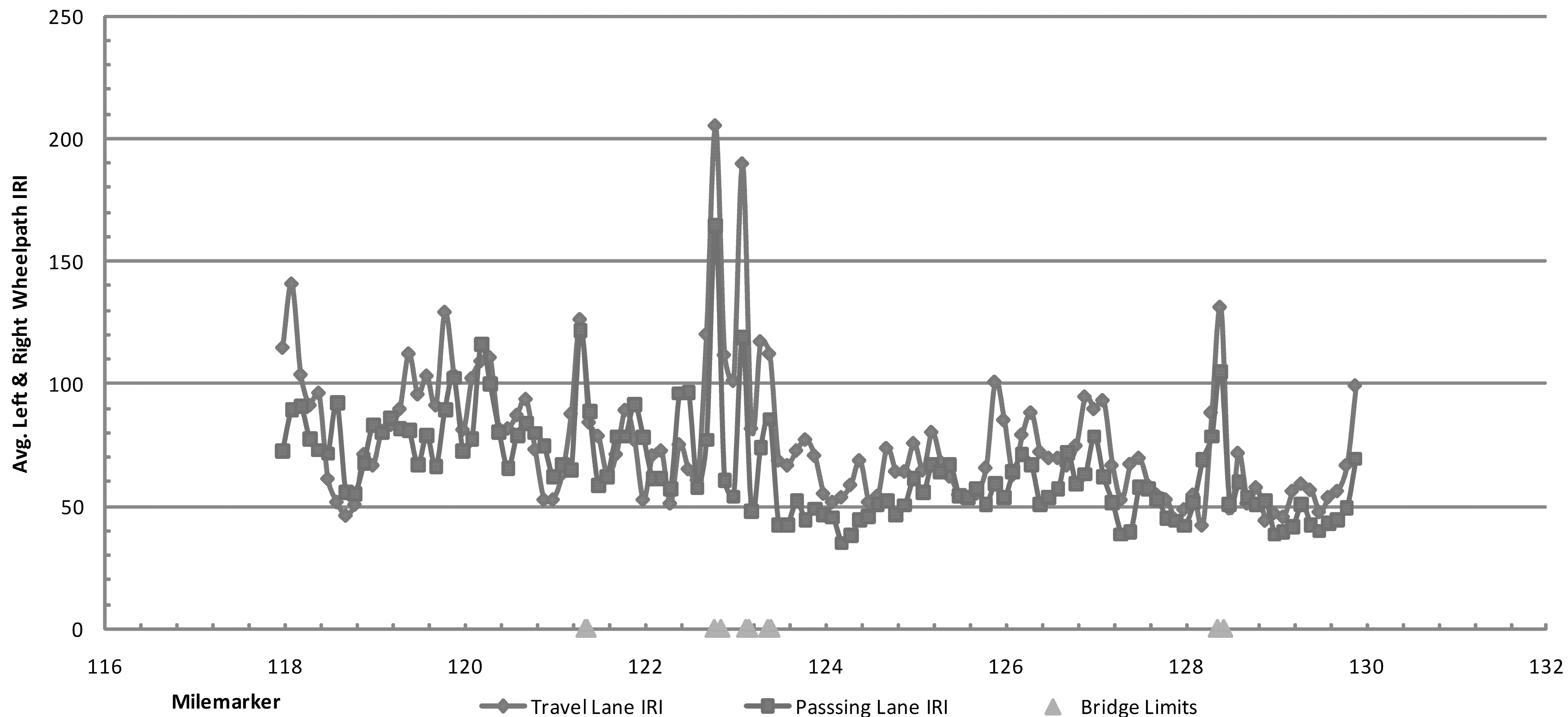
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PROJECT NUMBER: IM SURF (28)	DRAWN BY: PAVT MGMT
FILE NAME: 11a024/11a024.dgn	CHECKED BY: PAVT MGMT
PROJECT LEADER: M. FOWLER	SHEET 45 OF 49
DESIGNED BY: PAVT MGMT	
11a024pmb.f	



# I-89 Swanton-Highgate IM Surf(28) Ride

Profiled 9/1/11

Travel Lane Avg. IRI = 77.1, Passing Lane Avg. IRI = 65.3, Project Avg. IRI = 71.2



**NOTES:**

1. THIS IS FOR NORTHBOUND ONLY.
2. THIS IS FOR INFORMATIONAL PURPOSES ONLY.

NOT TO SCALE

**ROUGHNESS  
DATA  
INFORMATION  
SHEET**

PROJECT NAME: SWANTON-HIGHGATE

PROJECT NUMBER: IM SURF (28)

FILE NAME: Ila024/Ila024.dgn

PROJECT LEADER: M. FOWLER

DESIGNED BY: PAVT MGMT

Ila024rIde.1

PLOT DATE: 12-APR-2012

DRAWN BY: PAVT MGMT

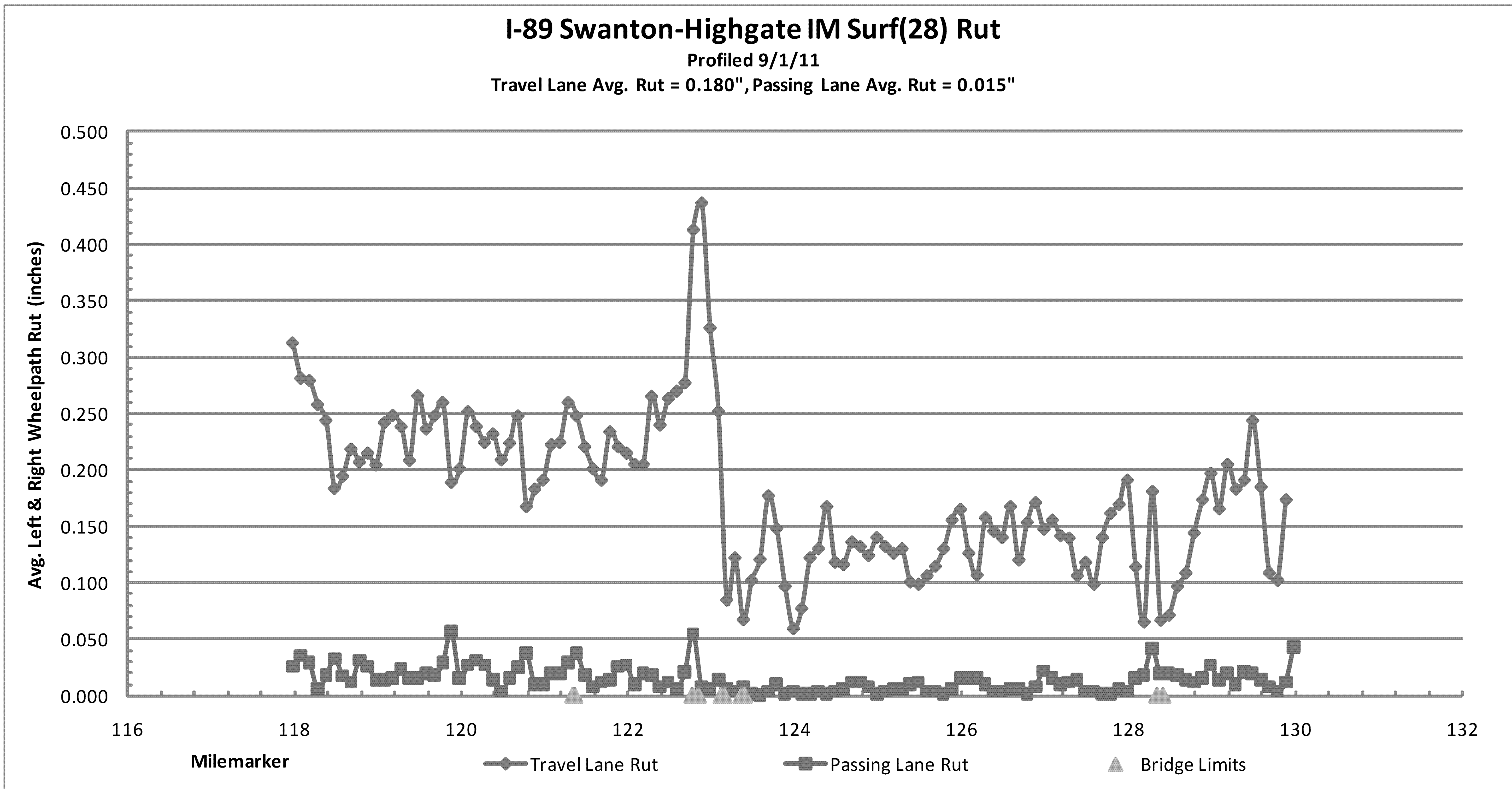
CHECKED BY: PAVT MGMT

SHEET 46 OF 49

# I-89 Swanton-Highgate IM Surf(28) Rut

Profiled 9/1/11

Travel Lane Avg. Rut = 0.180", Passing Lane Avg. Rut = 0.015"



**NOTES:**

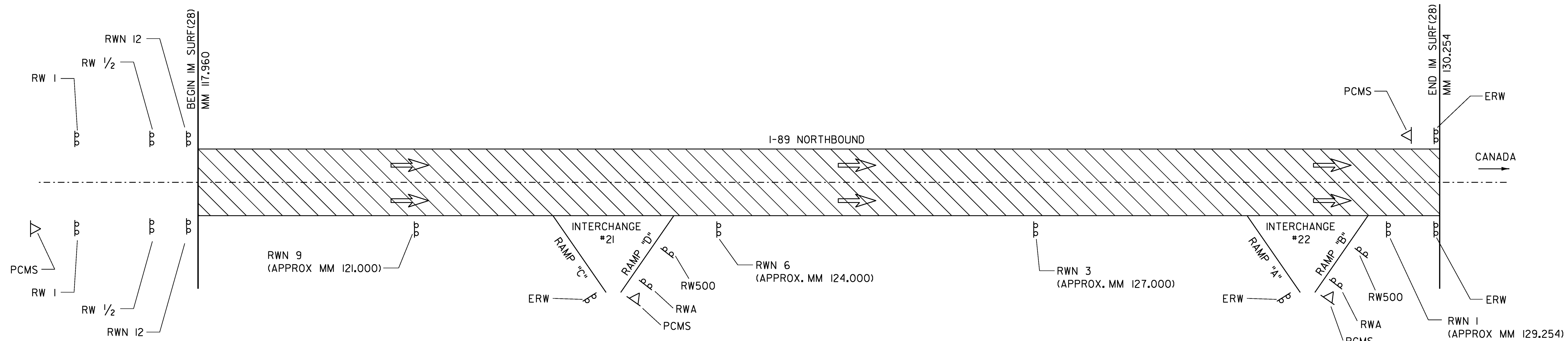
1. THIS IS FOR NORTHBOUND ONLY.
2. THIS IS FOR INFORMATIONAL PURPOSES ONLY.

NOT TO SCALE

**RUTTING  
DATA  
INFORMATION  
SHEET**

PROJECT NAME: SWANTON-HIGHGATE	PLOT DATE: 12-APR-2012
PROJECT NUMBER: IM SURF (28)	DRAWN BY: PAVT MGMT
FILE NAME: Ila024/Ila024.dgn	CHECKED BY: PAVT MGMT
PROJECT LEADER: M. FOWLER	SHEET 47 OF 49
DESIGNED BY: PAVT MGMT	
Ila024rut.1	

**BEGIN /END PROJECT  
CONSTRUCTION APPROACH SIGNING**



**LEGEND**

- RW500 = ROAD WORK 500 FT.
- RWA = ROAD WORK AHEAD
- RWN = ROAD WORK NEXT (X MILES)
- ERW = END ROAD WORK
- RW 1 = ROAD WORK 1 MILE
- RW 1/2 = ROAD WORK 1/2 MILE
- = DIRECTION OF TRAFFIC FLOW
- = PORTABLE CHANGEABLE MESSAGE SIGN
- = WORK AREA

LIST OF CONSTRUCTION SIGNS

LOCATION	RWA	RW500	ERW	RWN	RW 1 MI	RW 1/2 MI	PCMS
I-89 NORTHBOUND			2	5	2	2	2
INTERCHANGE #21	1	1	1				1
INTERCHANGE #22	1	1	1				1
TOTALS	2	2	4	5	2	2	4

NOT TO SCALE

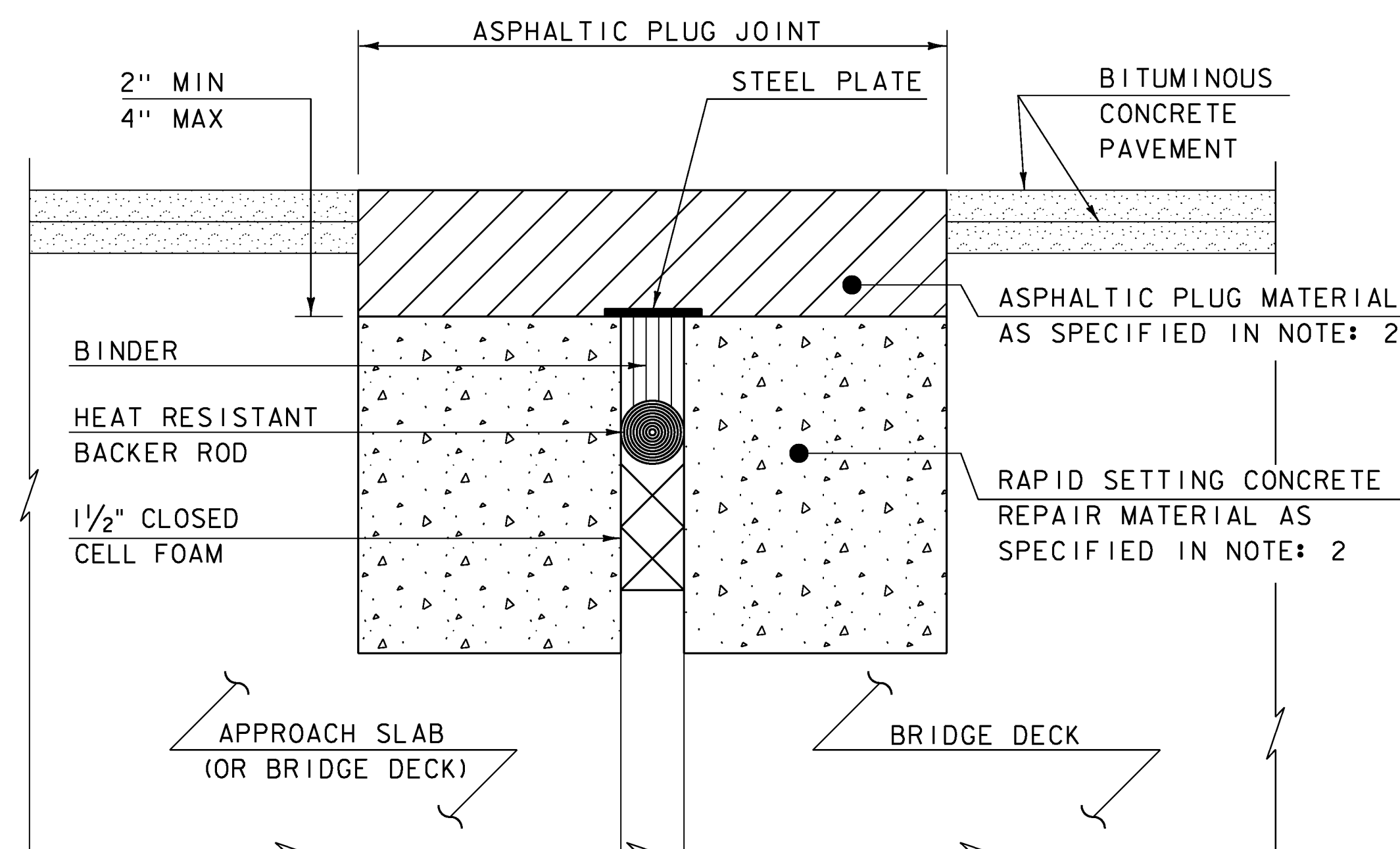
**CONSTRUCTION  
APPROACH  
SIGNING**

PROJECT NAME: SWANTON-HIGHGATE

PROJECT NUMBER: IM SURF (28)

FILE NAME: Ila024/Ila024.dgn  
PROJECT LEADER: M. FOWLER  
DESIGNED BY: L. BULLOCK  
Ila024con.1

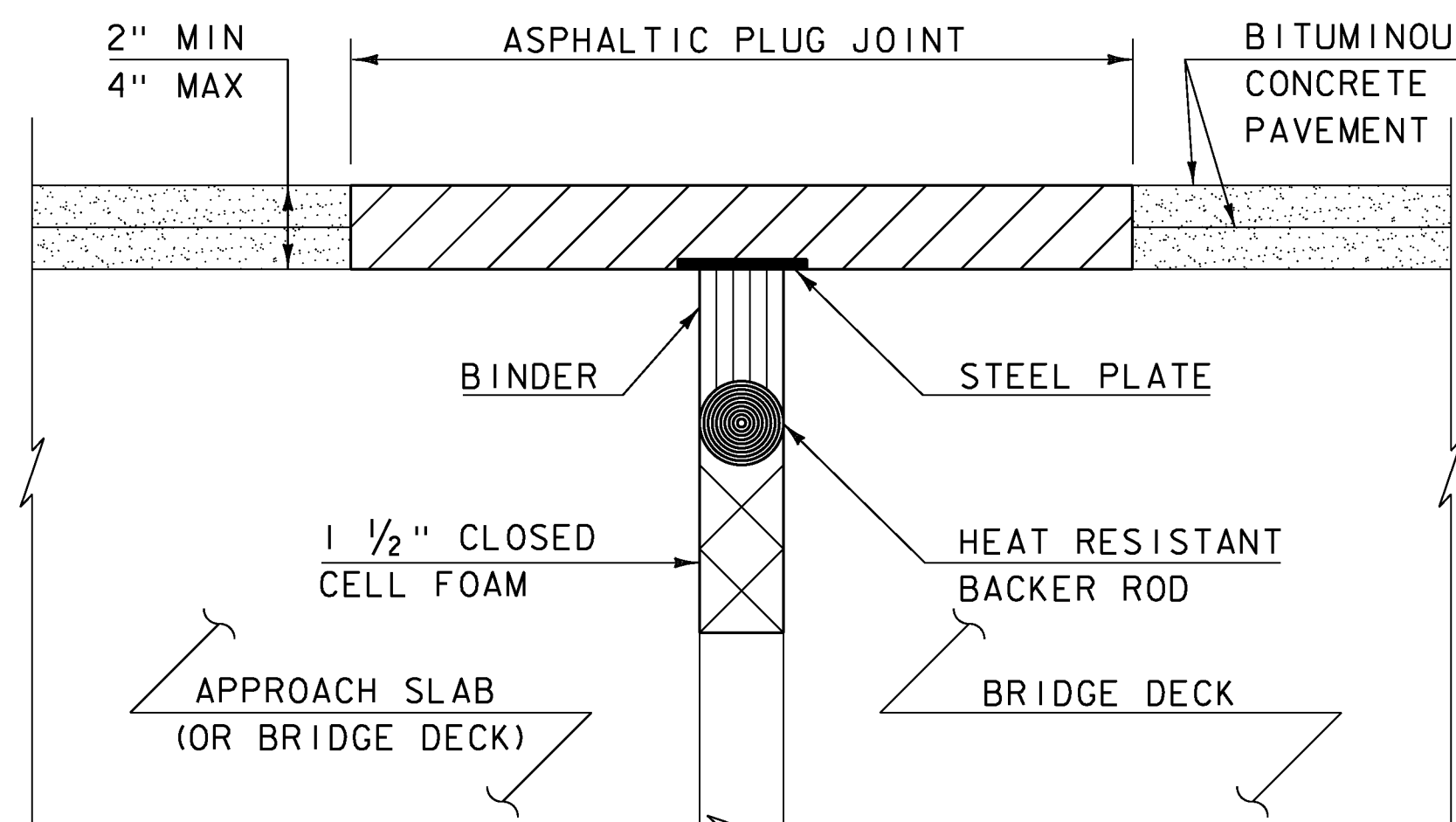
PLOT DATE: 12-APR-2012  
DRAWN BY: L. BULLOCK  
CHECKED BY: M. FOWLER  
SHEET 48 OF 49



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

NOTES: (NOT TO SCALE)

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



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

(NOT TO SCALE)

**INSTALLATION: ASPHALTIC PLUG JOINT NOTES**

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

**WEATHER LIMITATIONS**

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

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

**REVISIONS**

MAY 7, 2010 APPROVED FOR USE BY VAOT STRUCTURES SECTION

**BRIDGE JOINT  
ASPHALTIC PLUG**

**STRUCTURES  
DETAIL**

**SD-516.10**