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STRUCTURE DETAILS

SD-516.10 BRIDGE JOINT ASPHALTIC PLUG 05/07/20

STANDARDS

|        |   |          |
|--------|---|----------|
| E-100  | CONSTRUCTION APPROACH SIGNS   | 01/02/04 |
| E-100A | SIDE ROAD CONSTRUCTION APPROACH SIGNS                               | 01/02/04 |
| E-101  | CONSTRUCTION SIGN DETAILS   | 05/30/03 |
| E-102  | CONSTRUCTION SIGN DETAILS   | 06/30/03 |
| E-102A | CONSTRUCTION SIGN DETAILS   | 05/01/04 |
| E-103  | MAINLINE TRAFFIC CONTROL DIVIDED HIGHWAY ONE LANE CLOSED            | 03/01/04 |
| E-105  | TRAFFIC CONTROL FOR CONSTRUCTION VEHICLE U-TURNS ON DIVIDED HIGHWAY | 05/01/04 |
| E-106  | TRAFFIC CONTROL - MISCELLANEOUS DETAILS                             | 03/01/04 |
| E-107A | BREAKAWAY BARRICADE DETAILS   | 06/08/09 |
| E-108  | CONSTRUCTION ZONE LONGITUDINAL DROP OFFS                            | 06/08/09 |
| E-108A | CONSTRUCTION ZONE LONGITUDINAL DROP OFFS FOR PAVING                 | 06/08/09 |
| E-191  | PAVEMENT MARKING DETAILS  | 02/01/99 |
| E-192  | PAVEMENT MARKING DETAILS  | 10/12/00 |
| E-193  | PAVEMENT MARKING DETAILS  | 08/18/95 |

QUALITY ASSURANCE PROGRAM LEVEL 1

CONVENTIONAL SYMBOLS

|                    |  |             |
|--------------------|--|-------------|
| COUNTY LINE        |  | COUNTY LINE |
| TOWN 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       |  |             |

STATE OF VERMONT  
AGENCY OF TRANSPORTATION



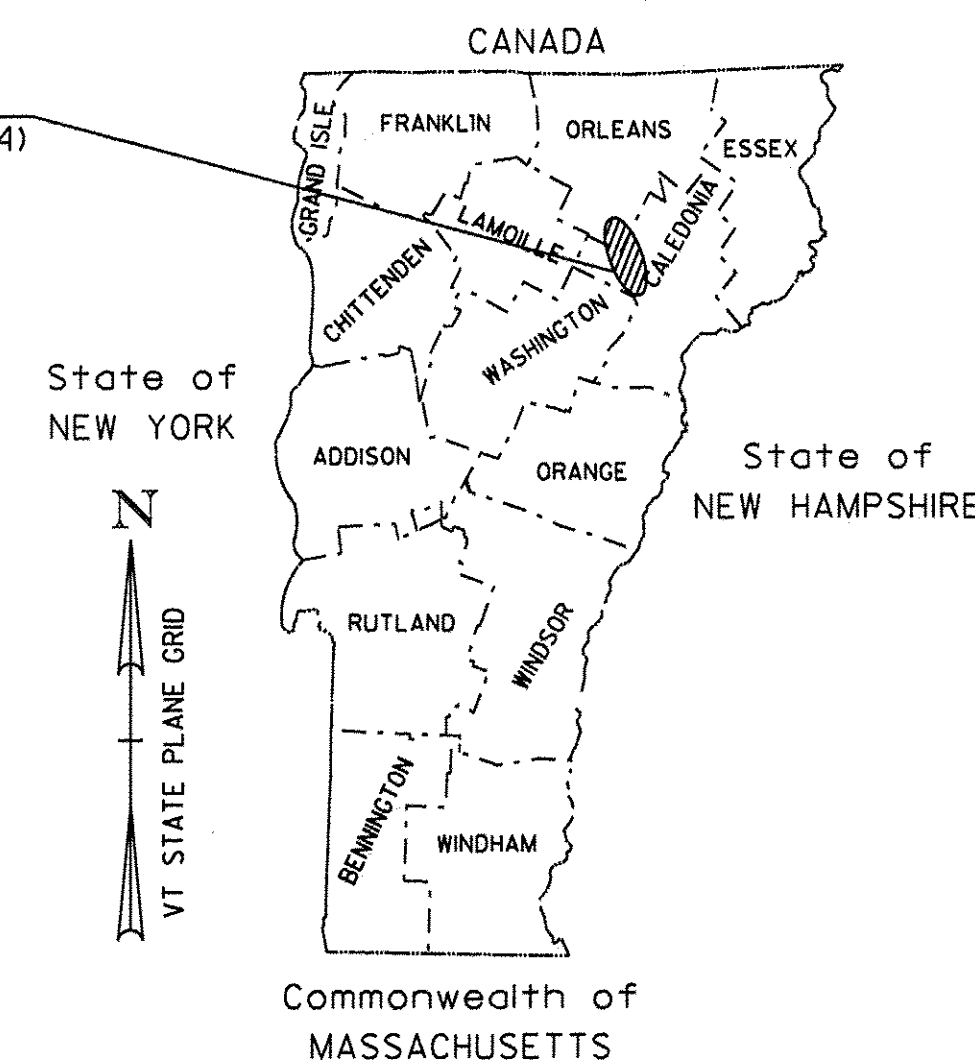
PROPOSED IMPROVEMENT  
TOWNS OF LYNDON, WHEELOCK, SHEFFIELD, GLOVER & BARTON  
COUNTIES OF CALEDONIA & ORLEANS  
INTERSTATE ROUTE 91 (SB) (NHS)

BEGINNING AT A POINT IN THE TOWN OF LYNDON ON I-91 AT APPROXIMATE MILE MARKER 137.194 IN THE SOUTHBOUND LANE AND EXTENDING NORTHERLY ALONG INTERSTATE ROUTE 91 FOR AN APPROXIMATE DISTANCE OF 99,227.04 FT (18.793 MILES) TO MILE MARKER 155.987 IN THE TOWN OF BARTON.

LENGTH OF ROADWAY = 99,227.04 FT = (18.793 MILES)  
LENGTH OF PROJECT = 99,227.04 FT = (18.793 MILES)

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

PROJECT LOCATION  
LYNDON - BARTON IM SURF (34)  
I-91 SOUTHBOUND ONLY



RECORD PLANS

CONTRACTOR: ALL STATES ASPHALT, INC. - SUNDERLAND, MA

RESIDENT ENGINEER: DOUG BUMPS

CONSTRUCTION BEGAN: AUGUST 5, 2013

CONSTRUCTION COMPLETE: OCTOBER 16, 2013

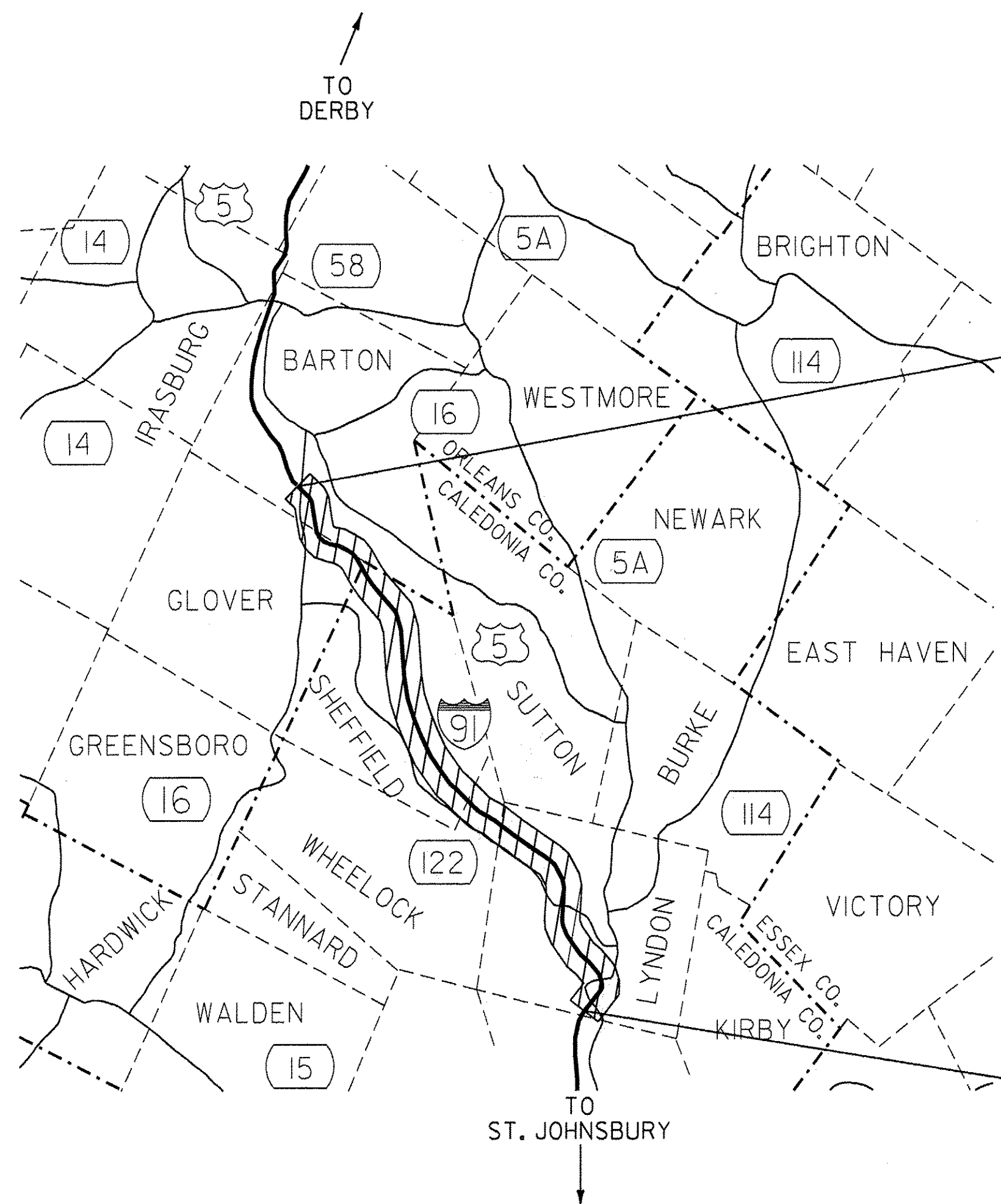
RECORD PLANS BY: DOUG BUMPS & C. PIERCE

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

BY Douglas Bumps RESIDENT ENGINEER

DATE 4/3/14

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



END LYNDON - BARTON  
IM SURF (34)  
I-91 SOUTHBOUND  
MM 155.987

BEGIN LYNDON - BARTON  
IM SURF (34)  
I-91 SOUTHBOUND  
MM 137.194

TRAFFIC DATA

| I-91 SB                       | 2013 AADT | 2023 AADT | 2013 DHV | 2023 DHV | FLEXIBLE ESALS (2013-2023) | FLEXIBLE ESALS (2013-2033) |
|-------------------------------|-----------|-----------|----------|----------|----------------------------|----------------------------|
| BEGIN PROJECT TO I-91 EXIT 24 | 2600      | 2900      | 390      | 440      | 2,084,000                  | 4,892,000                  |
| I-91 EXIT 24 TO END PROJECT   | 2400      | 2600      | 360      | 390      | 1,494,000                  | 3,522,000                  |

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

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 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.

DIRECTOR OF PROGRAM DEVELOPMENT

APPROVED [Signature] DATE 3-11-13

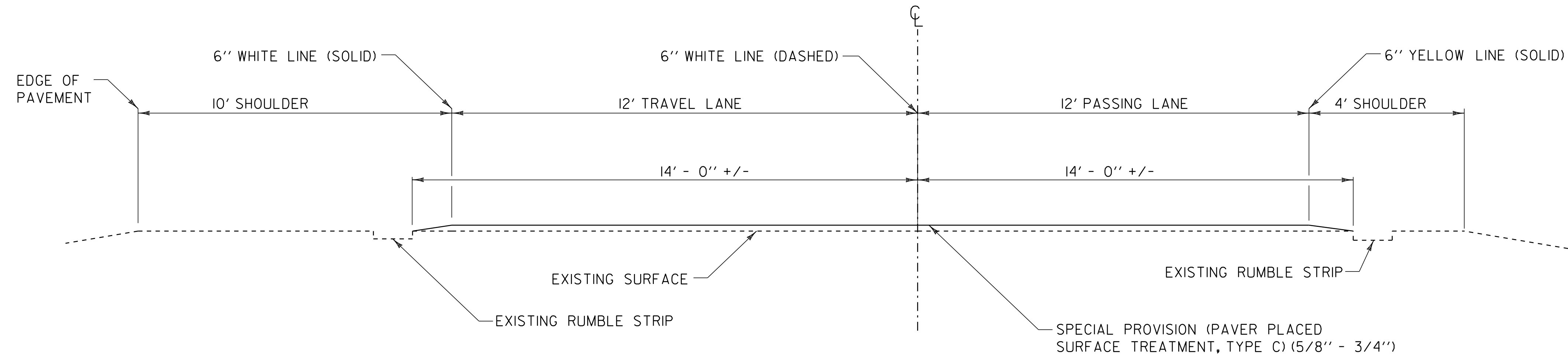
PROJECT MANAGER : MIKE FOWLER, PE

PROJECT NAME : LYNDON - BARTON

PROJECT NUMBER : IM SURF (34)

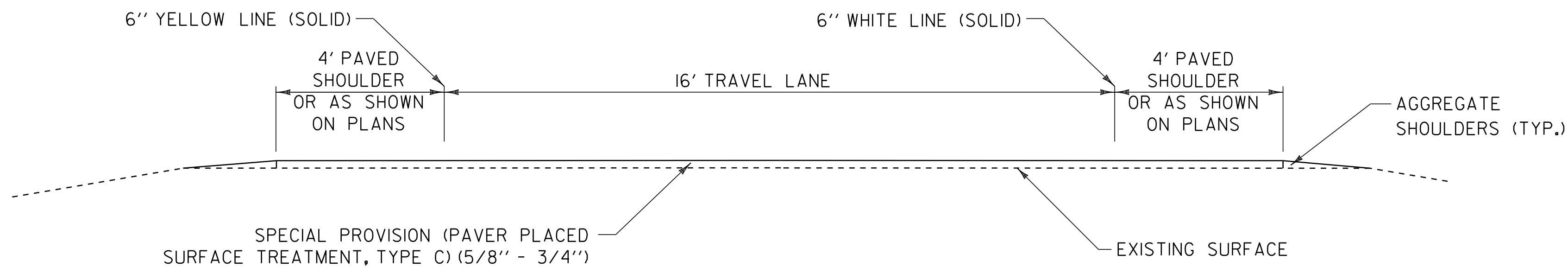
SHEET 1 OF 21 SHEETS

# TYPICAL SECTION



## TYPICAL SECTION - ALTERNATE A PAVER PLACED SURFACE TREATMENT, TYPE C

I-91 SOUTHBOUND LYNDON MM 137.194 - BARTON MM 155.987

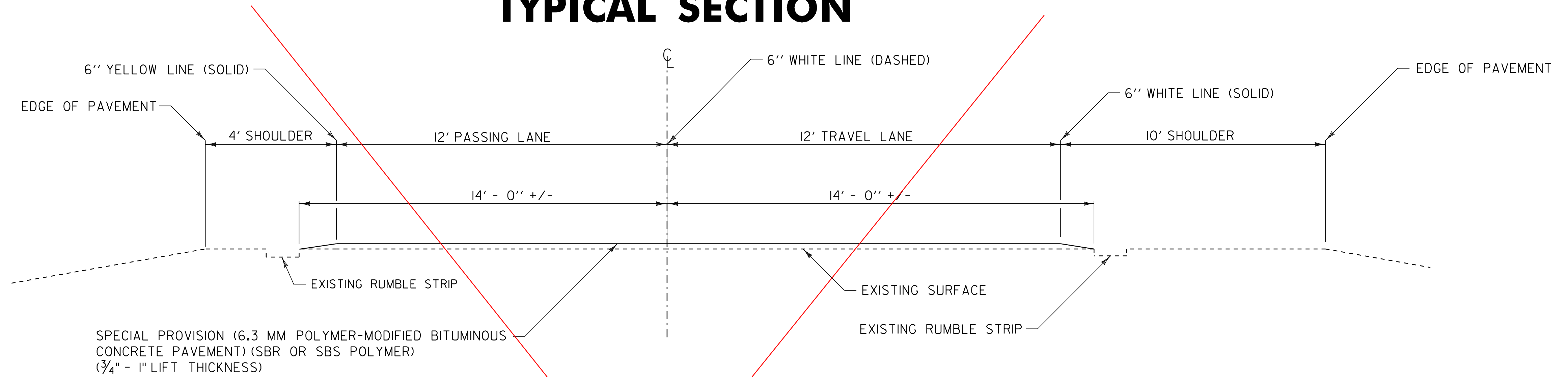


## TYPICAL RAMP SECTION ALTERNATE A

NOT TO SCALE

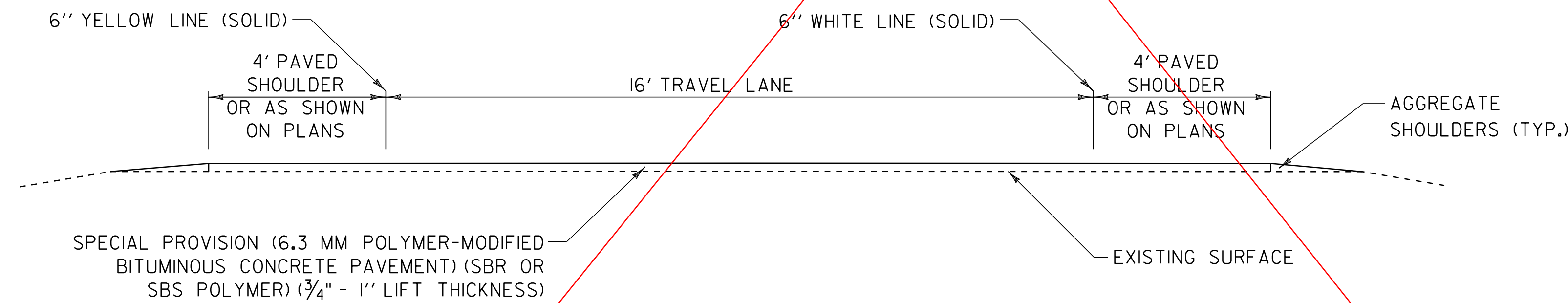
|   |                 |                   |
|---|-----------------|-------------------|
| <b>TYPICAL SECTIONS<br/>ALTERNATE A</b> | PROJECT NAME:   | LYNDON - BARTON   |
|   | PROJECT NUMBER: | IM SURF (34)      |
|   | FILE NAME:      | p12a286.dgn       |
|   | PLOT DATE:      | 15-APR-2014 14:07 |
|   | PROJECT LEADER: | M. FOWLER         |
|   | DRAWN BY:       | L. BULLOCK        |
|   | DESIGNED BY:    | L. BULLOCK        |
|   | CHECKED BY:     | PAVT MGMT         |
|   |                 | SHEET 2 OF 21     |

# TYPICAL SECTION



**TYPICAL SECTION - ALTERNATE B**  
**6.3 MM POLYMER-MODIFIED BITUMINOUS CONCRETE PAVEMENT**  
 I-91 SOUTHBOUND LYNDON MM 137.194 - BARTON MM 155.987

NOTE:  
 CONTRACTOR DID NOT BID THIS OPTION.  
 THIS OPTION WAS NOT DONE.



**TYPICAL RAMP SECTION**  
**ALTERNATE B**

NOTES:

1. PRIOR TO THE PLACEMENT OF THE POLYMER-MODIFIED BITUMINOUS CONCRETE PAVEMENT, EMULSIFIED ASPHALT SHALL BE APPLIED TO ALL EXISTING PAVEMENT SURFACES AND ON ALL COLD PLANED SURFACES AT A RATE OF 0.080 GAL/SY (+/- 0.01 GAL/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).
2. 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

|                                     |                               |                              |
|-------------------------------------|-------------------------------|------------------------------|
| <b>TYPICAL SECTIONS ALTERNATE B</b> | PROJECT NAME:                 | LYNDON - BARTON              |
|                                     | PROJECT NUMBER:               | IM SURF (34)                 |
|                                     | FILE NAME: p12a286.dgn        | PLOT DATE: 15-APR-2014 14:07 |
|                                     | PROJECT LEADER: M. FOWLER     | DRAWN BY: L. BULLOCK         |
|                                     | DESIGNED BY: L. BULLOCK       | CHECKED BY: PAVT MGMT        |
|                                     | IPARM FILE NAME: 12a286+yp2.i | SHEET 3 OF 21                |

# QUANTITY SHEET 1

| SUMMARY OF ESTIMATED QUANTITIES |  |  |  |  |  |         |        |                  |                       | TOTALS                |             | DESCRIPTIONS |      |  |             | DETAILED SUMMARY OF QUANTITIES |            |      |                                   |
|---------------------------------|--|--|--|--|--|---------|--------|------------------|-----------------------|-----------------------|-------------|--------------|------|--|-------------|--------------------------------|------------|------|-----------------------------------|
|                                 |  |  |  |  |  | ROADWAY | BRIDGE | FULL E & C ITEMS | ROADWAY (ALTERNATE A) | ROADWAY (ALTERNATE B) | GRAND TOTAL | FINAL        | UNIT | ITEMS  | ITEM NUMBER | ROUND                          | QUANTITIES | UNIT | ITEMS                             |
|                                 |  |  |  |  |  | 47000   |        |                  |                       |                       | 47000       |              | LF   | SHOULDER BERM REMOVAL  | 203.40      | 621                            |            |      |                                   |
|                                 |  |  |  |  |  | 1       |        |                  |                       |                       | 1           |              | CY   | TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)                                 | 204.22      | EST.                           |            |      |                                   |
|                                 |  |  |  |  |  | 4270    |        |                  |                       |                       | 4270        |              | SY   | COLD PLANING, BITUMINOUS PAVEMENT  | 210.10      | 48                             |            |      | COLD PLANING, BITUMINOUS PAVEMENT |
|                                 |  |  |  |  |  | 620     |        |                  |                       |                       | 620         |              | TON  | AGGREGATE SHOULDERS  | 402.12      | 41                             |            |      |                                   |
|                                 |  |  |  |  |  | 1       |        |                  |                       |                       | 1           |              | LU   | PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)  | 406.50      | -                              |            |      |                                   |
|                                 |  |  |  |  |  | 50000   |        |                  |                       |                       | 50000       |              | LB   | BITUMINOUS CRACK SEALING, "BLOW AND GO" METHOD (AASHTO M324 (ASTM D 6690) TYPE II) | 417.20      | EST.                           |            |      |                                   |
|                                 |  |  |  |  |  |         | 100    |                  |                       |                       | 100         |              | LF   | BRIDGE EXPANSION JOINT, ASPHALTIC PLUG   | 516.10      | 19                             |            |      |                                   |
|                                 |  |  |  |  |  |         | 100    |                  |                       |                       | 100         |              | CF   | RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE                       | 580.20      | EST.                           |            |      |                                   |
|                                 |  |  |  |  |  | 100     |        |                  |                       |                       | 100         |              | HR   | POWER BROOM RENTAL, TYPE II  | 608.31      | EST.                           |            |      |                                   |
|                                 |  |  |  |  |  | 1000    |        |                  |                       |                       | 1000        |              | HR   | UNIFORMED TRAFFIC OFFICERS   | 630.10      | EST.                           |            |      |                                   |
|                                 |  |  |  |  |  | 250     |        |                  |                       |                       | 250         |              | HR   | FLAGGERS   | 630.15      | EST.                           |            |      | AGGREGATE SHOULDERS               |
|                                 |  |  |  |  |  |         |        | 1                |                       |                       | 1           |              | LS   | TESTING EQUIPMENT, BITUMINOUS  | 631.17      | -                              |            |      |                                   |
|                                 |  |  |  |  |  | 1       |        |                  |                       |                       | 1           |              | LS   | MOBILIZATION/DEMOBILIZATION  | 635.11      | -                              |            |      |                                   |
|                                 |  |  |  |  |  | 1       |        |                  |                       |                       | 1           |              | LS   | TRAFFIC CONTROL  | 641.10      | -                              |            |      |                                   |
|                                 |  |  |  |  |  | 3       |        |                  |                       |                       | 3           |              | EACH | PORTABLE CHANGEABLE MESSAGE SIGN   | 641.15      | -                              |            |      |                                   |
|                                 |  |  |  |  |  | 132000  |        |                  |                       |                       | 132000      |              | LF   | DURABLE 6 INCH WHITE LINE, POLYUREA  | 646.424     |                                |            |      |                                   |
|                                 |  |  |  |  |  | 106000  |        |                  |                       |                       | 106000      |              | LF   | DURABLE 6 INCH YELLOW LINE, POLYUREA   | 646.434     |                                |            |      |                                   |
|                                 |  |  |  |  |  | 2100    |        |                  |                       |                       | 2100        |              | LF   | DURABLE 12 INCH WHITE LINE, POLYUREA   | 646.464     |                                |            |      |                                   |
|                                 |  |  |  |  |  | 110     |        |                  |                       |                       | 110         |              | LF   | DURABLE 12 INCH YELLOW LINE, POLYUREA  | 646.474     |                                |            |      |                                   |
|                                 |  |  |  |  |  | 80      |        |                  |                       |                       | 80          |              | LF   | DURABLE 24 INCH STOP BAR, POLYUREA   | 646.484     |                                |            |      |                                   |
|                                 |  |  |  |  |  | 30      |        |                  |                       |                       | 30          |              | EACH | DURABLE LETTER OR SYMBOL, POLYUREA   | 646.494     |                                |            |      |                                   |
|                                 |  |  |  |  |  | 132000  |        |                  |                       |                       | 132000      |              | LF   | TEMPORARY 6 INCH WHITE LINE, PAINT   | 646.622     | 2230                           |            |      |                                   |
|                                 |  |  |  |  |  | 106000  |        |                  |                       |                       | 106000      |              | LF   | TEMPORARY 6 INCH YELLOW LINE, PAINT  | 646.632     | 1794                           |            |      |                                   |
|                                 |  |  |  |  |  | 2100    |        |                  |                       |                       | 2100        |              | LF   | TEMPORARY 12 INCH WHITE LINE, PAINT  | 646.662     | 168                            |            |      |                                   |
|                                 |  |  |  |  |  | 110     |        |                  |                       |                       | 110         |              | LF   | TEMPORARY 12 INCH YELLOW LINE, PAINT   | 646.672     | 10                             |            |      |                                   |
|                                 |  |  |  |  |  | 80      |        |                  |                       |                       | 80          |              | LF   | TEMPORARY 24 INCH STOP BAR, PAINT  | 646.682     | 8                              |            |      |                                   |
|                                 |  |  |  |  |  | 30      |        |                  |                       |                       | 30          |              | EACH | TEMPORARY LETTER OR SYMBOL, PAINT  | 646.692     |                                |            |      |                                   |
|                                 |  |  |  |  |  | 7000    |        |                  |                       |                       | 7000        |              | EACH | LINE STRIPING TARGETS  | 646.76      | 1150                           |            |      |                                   |
|                                 |  |  |  |  |  | 180500  |        |                  |                       |                       | 180500      |              | SF   | REMOVAL OF EXISTING PAVEMENT MARKINGS  | 646.85      | 1808                           |            |      |                                   |
|                                 |  |  |  |  |  | 1       |        |                  |                       |                       | 1           |              | LU   | PRICE ADJUSTMENT, FUEL (N.A.B.I.)  | 690.50      | -                              |            |      |                                   |
|                                 |  |  |  |  |  | 50      |        |                  |                       |                       | 50          |              | TON  | SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE I)       | 900.680     | EST.                           |            |      |                                   |
|                                 |  |  |  |  |  |         |        |                  |                       |                       |             |              |      | BEGIN ALTERNATE ZA1  |             |                                |            |      |                                   |
|                                 |  |  |  |  |  |         |        |                  | 340000                |                       | 340000      |              | SY   | SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C)                         | 900.675     | 3635                           |            |      |                                   |
|                                 |  |  |  |  |  |         |        |                  |                       |                       |             |              |      | END ALTERNATE ZA1  |             |                                |            |      |                                   |

PROJECT NAME: LYNDON-BARTON  
PROJECT NUMBER: IM SURF (34)  
FILE NAME: pl2a286.dgn  
PROJECT LEADER: M. FOWLER  
DESIGNED BY: L. BULLOCK  
QUANTITY SHEET 1  
PLOT DATE: 15-APR-2014 14:07  
DRAWN BY: L. BULLOCK  
CHECKED BY: J. HARRINGTON  
SHEET 4 OF 21

# QUANTITY SHEET 2

| SUMMARY OF ESTIMATED QUANTITIES |  |  |  |  |  |         |        |                     |                          | TOTALS                   |             | DESCRIPTIONS |      |   |             | DETAILED SUMMARY OF QUANTITIES |            |      |  |             |
|---------------------------------|--|--|--|--|--|---------|--------|---------------------|--------------------------|--------------------------|-------------|--------------|------|---|-------------|--------------------------------|------------|------|--|-------------|
|                                 |  |  |  |  |  | ROADWAY | BRIDGE | FULL E & C<br>ITEMS | ROADWAY<br>(ALTERNATE A) | ROADWAY<br>(ALTERNATE B) | GRAND TOTAL | FINAL        | UNIT | ITEMS   | ITEM NUMBER | ROUND                          | QUANTITIES | UNIT | ITEMS  |             |
|                                 |  |  |  |  |  |         |        |                     |                          |                          |             |              |      | BEGIN ALTERNATE ZA2   |             |                                |            |      |  | ALTERNATE B |
|                                 |  |  |  |  |  |         |        |                     |                          | 1                        | 1           |              | LU   | AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)   | 490.31      | -                              |            |      | SPECIAL PROVISION (6.3 MM POLYMER-MODIFIED BITUMINOUS,<br>CONCRETE PAVEMENT)(SBR OR SBS POLYMER) |             |
|                                 |  |  |  |  |  |         |        |                     |                          | 20000                    | 20000       |              | TON  | SPECIAL PROVISION (6.3 MM POLYMER-MODIFIED BITUMINOUS CONCRETE<br>PAVEMENT)(SBR OR SBS POLYMER) | 900.680     | 378                            | 18,008     | TON  | I-91 SOUTHBOUND  |             |
|                                 |  |  |  |  |  |         |        |                     |                          | 2300                     | 2300        |              | CWT  | SPECIAL PROVISION (EMULSIFIED ASPHALT)(RS-1H OR CRS-1H)   | 900.683     | 37                             | 1,336      | TON  | RAMPS  |             |
|                                 |  |  |  |  |  |         |        |                     |                          |                          |             |              |      | END ALTERNATE ZA2   |             |                                | 278        | TON  | REST AREA  |             |
|                                 |  |  |  |  |  |         |        |                     |                          |                          |             |              |      |   |             |                                | 378        | TON  | ROUNDING   |             |
|                                 |  |  |  |  |  |         |        |                     |                          |                          |             |              |      |   |             |                                | 20,000     | TON  | TOTAL  |             |

|                 |               |                  |                   |
|-----------------|---------------|------------------|-------------------|
| PROJECT NAME:   | LYNDON-BARTON | PLOT DATE:       | 15-APR-2014 14:07 |
| PROJECT NUMBER: | IM SURF (34)  | DRAWN BY:        | L. BULLOCK        |
| PROJECT LEADER: | M. FOWLER     | CHECKED BY:      | J. HARRINGTON     |
| DESIGNED BY:    | L. BULLOCK    | QUANTITY SHEET 2 | SHEET 5 OF 21     |

PROJECT NOTES:

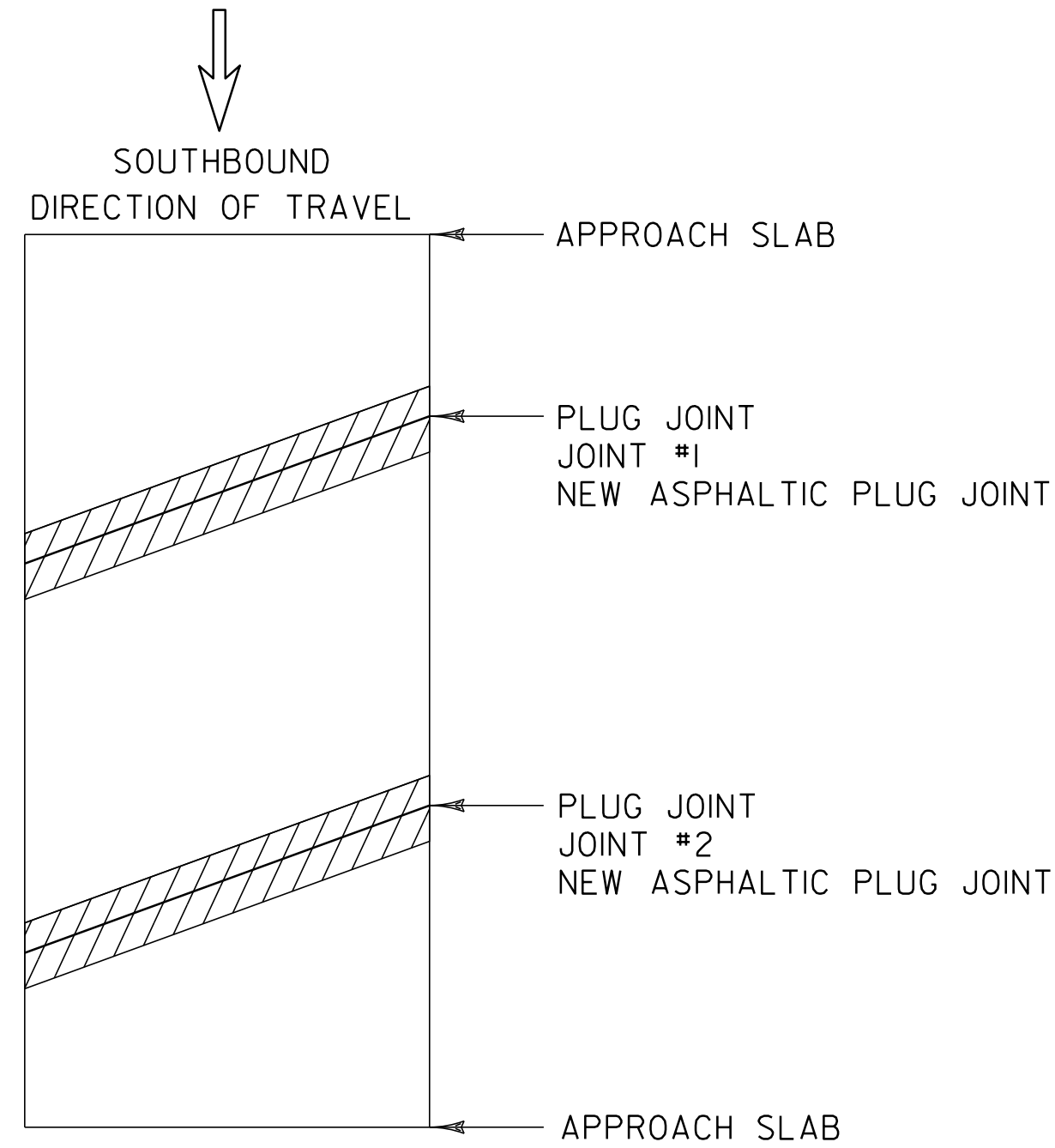
1. ALL NECESSARY SURFACE PREPARATION INVOLVING PATCHING, POTHOLE REPAIR, AND CRACK-SEALING SHALL BE PERFORMED PRIOR TO APPLICATION OF THE FINAL SURFACE TREATMENT. ALL CRACKS GREATER THAN 0.10" AND UP TO 1.0" IN WIDTH SHALL BE SEALED USING THE "BLOW AND GO" FILL METHOD. ALL COSTS ASSOCIATED WITH THIS 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 SHALL ALSO RECEIVE CRACK-SEALING AND RELATED PATCHING AND POTHOLE REPAIR TREATMENTS.
3. FOLLOWING COMPLETION OF COLD PLANING, THE MILLED SURFACE FOR BRIDGE 97S SHALL ALSO RECEIVE CRACK-SEALING AND RELATED PATCHING AND POTHOLE REPAIR TREATMENTS, AS DIRECTED BY THE ENGINEER.
4. ALL EXISTING PAVEMENT MARKINGS SHALL BE REMOVED PRIOR TO ANY CRACK SEALING BEING PERFORMED AND PRIOR TO APPLYING THE FINAL SURFACE TREATMENT. ALL LANE DELINEATION IS TO BE MAINTAINED DURING CONSTRUCTION BY THE USE OF LINE STRIPING TARGETS OR TEMPORARY PAINT.
5. A 50' COLD PLANED WEDGE SHALL BE CONSTRUCTED AT THE PROJECT BEGIN, PROJECT END, RAMPS, AND AT ALL BRIDGE APPROACHES OR AS DIRECTED BY THE ENGINEER. THE LONGITUDINAL EDGES OF THE SURFACE TREATMENT SHALL BE FEATHERED AS SHOWN ON THE TYPICAL SECTION, OR AS DIRECTED BY THE ENGINEER. ANY SAWCUTTING AT BUTT JOINTS SHALL BE PAID INCIDENTAL TO ITEM 210.10, COLD PLANING, BITUMINOUS PAVEMENT. THE CONTRACTOR SHALL USE CAUTION WHEN COLD PLANING AND PAVING OPERATIONS OCCUR ADJACENT TO EXISTING DROP INLETS OR CATCH BASINS. ANY DAMAGE WHICH OCCURS TO THESE DRAINAGE STRUCTURES AS A RESULT OF THESE OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT THE EXPENSE OF THE CONTRACTOR.
6. 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.
7. THERE ARE R.W.I.S. SENSORS IN THE PAVEMENT AT MM 148.500 SOUTHBOUND THAT MAY BE IMPACTED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CONTACT MARK GERRISH, FIBER OPTIC PROJECT MANAGER, VTRANS OPERATIONS DIVISION AT 802-828-2834 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.
8. ONE (1) APPLICATION OF FINAL PAVEMENT MARKINGS WILL BE REQUIRED.
9. SEE SPECIAL PROVISIONS FOR MINIMUM RETRO-REFLECTIVITY REQUIREMENTS.
10. DO NOT PAVE U-TURNS.

**PROJECT  
NOTES**

PROJECT NAME: LYNDON - BARTON  
PROJECT NUMBER: IM SURF (34)

FILE NAME: pl2a286.dgn  
PROJECT LEADER: M. FOWLER  
DESIGNED BY: L. BULLOCK  
IPARM FILE NAME: l2a286not.i

PLOT DATE: 15-APR-2014 14:07  
DRAWN BY: L. BULLOCK  
CHECKED BY: PAVT MGMT  
SHEET 6 OF 21



**BRIDGE 97S**

MM 141.505  
 LENGTH OF ASPHALTIC PLUG JOINTS:  
 JOINT #1 - 40.2'  
 JOINT #2 - 40.9'  
 TOTAL = 81.1'

NOTE - NO PLUG JOINTS WERE DONE ON BRIDGE 97S UNDER THIS CONTRACT.

NO PLUG JOINTS WERE DONE UNDER THIS CONTRACT TO ANY BRIDGE.

REASON - AOT BRIDGE CREW DID NEW PLUG JOINTS ON BOTH ENDS OF BRIDGE 97S JUST BEFORE THIS JOB STARTED.

WE SIMPLY COLD PLANED OVER THOSE JOINTS AND PLACED THE WEAR COURSE.

NOTES:

1. THE FOLLOWING BRIDGES ARE NOT INCLUDED UNDER THIS PROJECT AS EACH HAS A NEW MEMBRANE AND JOINTS:  
 BRIDGE 95S AT MM 138.738  
 BRIDGE 96S AT MM 139.888  
 BRIDGE 99S AT MM 145.667  
 BRIDGE 102S AT MM 155.947 PROJECT ENDED AT SOUTH APPROACH TO BRIDGE 102  
NO WORK DONE TO THIS BRIDGE

AT EACH OF THE ABOVE LISTED BRIDGES, END NEW PAVEMENT 10' BEYOND EXISTING JOINT AT EACH APPROACH SLAB.

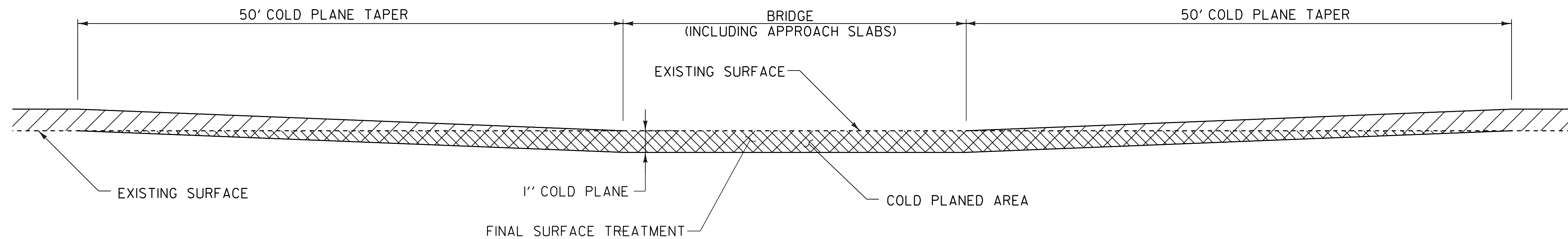
2. SEE STRUCTURES DETAIL SD-516.10, BRIDGE JOINT ASPHALTIC PLUG FOR NOTES AND DETAILS.

**LEGEND**



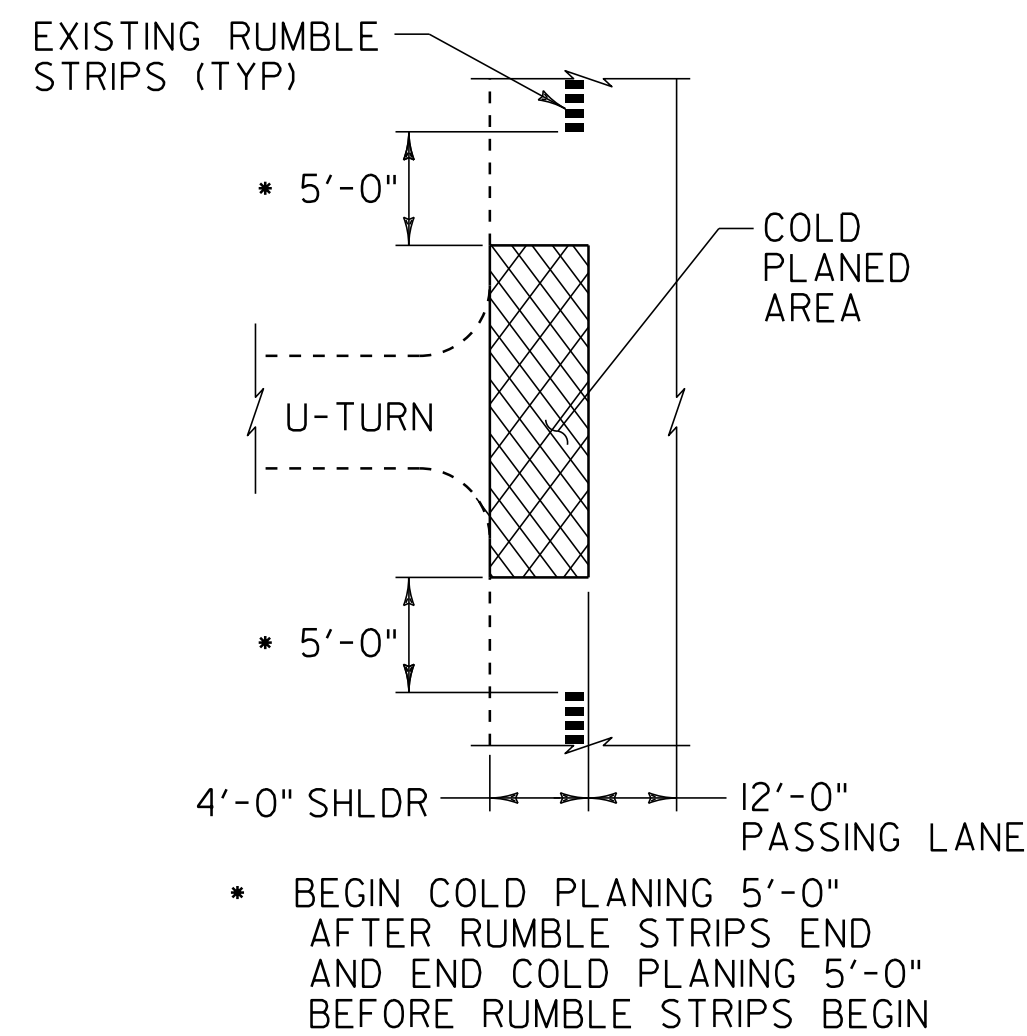
EXISTING BRIDGE JOINTS TO BE REPAIRED WITH ASPHALTIC PLUG JOINT

|  |                           |                              |
|--|---------------------------|------------------------------|
| <b>BRIDGE<br/>JOINT<br/>DETAIL<br/>SHEET</b> | PROJECT NAME:             | LYNDON - BARTON              |
|  | PROJECT NUMBER:           | IM SURF (34)                 |
|  | FILE NAME: pl2a286.dgn    | PLOT DATE: 15-APR-2014 14:07 |
|  | PROJECT LEADER: M. FOWLER | DRAWN BY: L. BULLOCK         |
| DESIGNED BY: L. BULLOCK                      | CHECKED BY: PAVT MGMT     |                              |
| IPARM FILE NAME: l2a286bds.i                 | SHEET 7 OF 21             |                              |

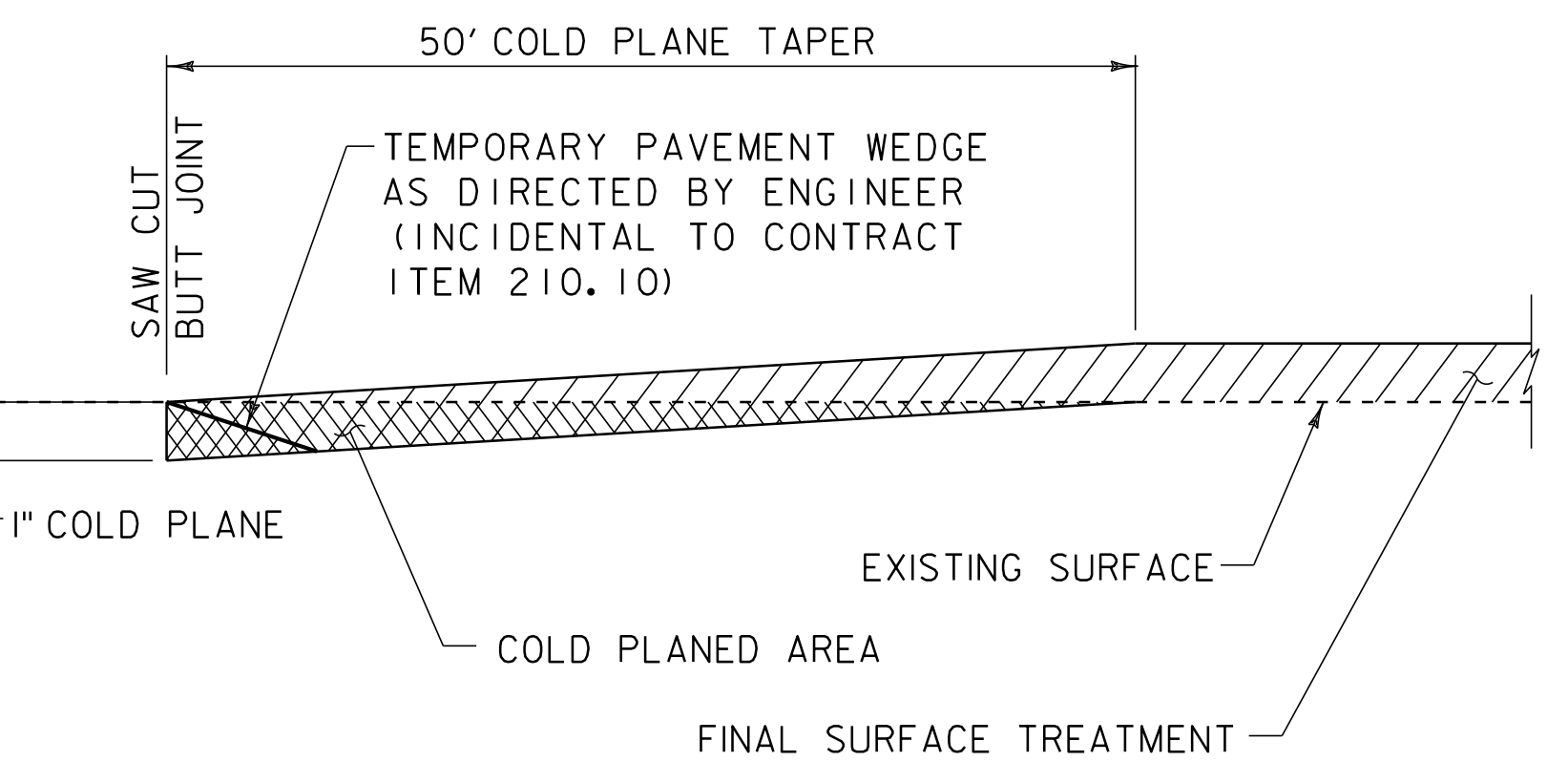
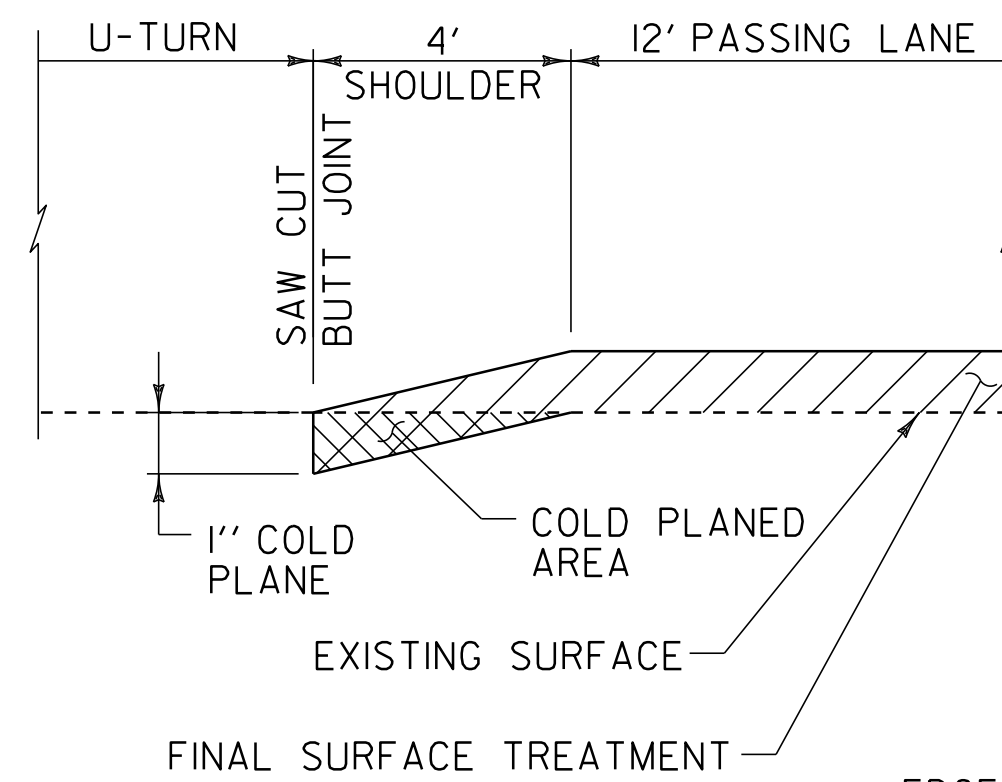


**BRIDGE COLD PLANE TYPICAL SECTION A-A**

LOCATIONS:  
BRIDGE 97-S MM 141.505



**COLD PLANE DETAIL AT U-TURNS**

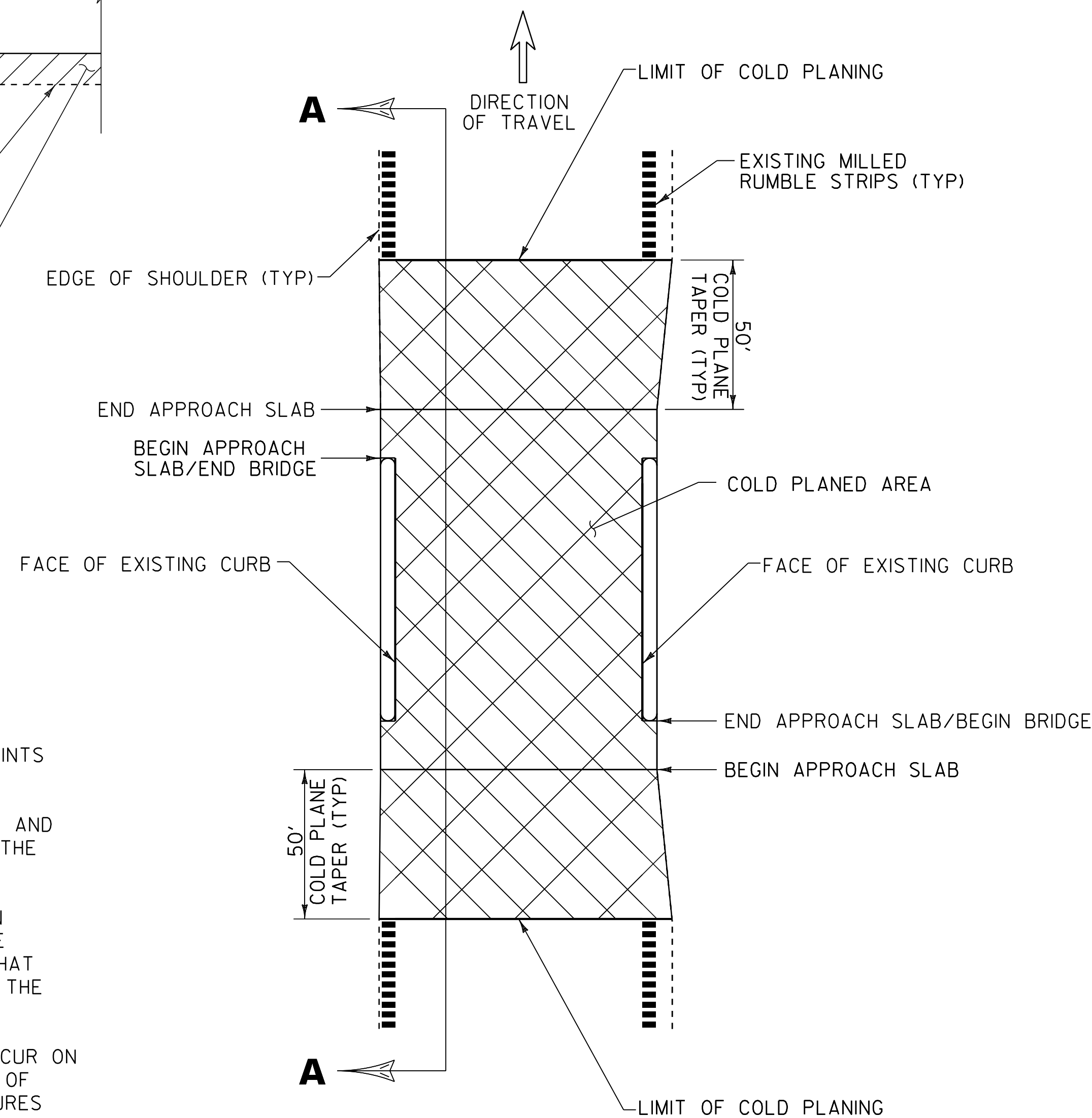


**COLD PLANE DETAIL AT BEGIN/END PROJECT, RAMPS, AND BRIDGES 95S, 96S, 99S, AND 102S**

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

**NOTES:**

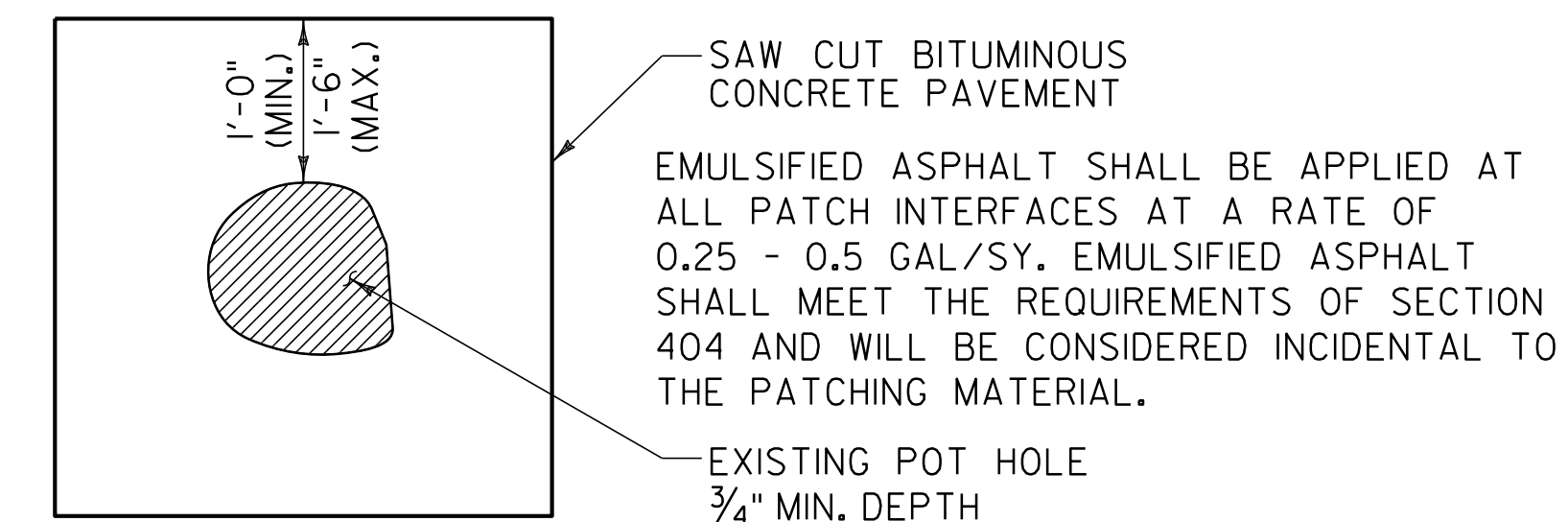
1. REFER TO BRIDGE JOINT DETAIL SHEET AND STRUCTURES DETAIL SD-516.10. ALL NEW JOINTS TO BE PAID FOR UNDER ITEM 516.10, "BRIDGE EXPANSION JOINT, ASPHALTIC PLUG."
2. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGING DRAINAGE STRUCTURES AND EXPANSION JOINTS. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL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



**BRIDGE COLD PLANE TYPICAL PLAN**

NOTE:  
1. FULL WIDTH PAVING LIMITS ON 4 FOOT SHOULDER SIDE ARE BASED ON WHERE RUMBLE STRIPS BEGIN AND END BEYOND BRIDGE AREA.

NOT TO SCALE



**TYPICAL POT HOLE REPAIR**

NOT TO SCALE

**COLD PLANE  
DETAIL SHEET**

PROJECT NAME: LYNDON - BARTON  
PROJECT NUMBER: IM SURF (34)

FILE NAME: pl2a286.dgn  
PROJECT LEADER: M. FOWLER  
DESIGNED BY: L. BULLOCK  
IPARM FILE NAME: l2a286cpds.i

PLOT DATE: 15-APR-2014 14:07  
DRAWN BY: L. BULLOCK  
CHECKED BY: PAVT MGMT  
SHEET 8 OF 21



~~MM 137.194 - 137.193~~  
**BEGIN PROJECT IM SURF(34)**  
**I-91 SOUTHBOUND LANE**

DISTRICT #7 | DISTRICT #9

~~MM 155.987 - 155.934~~ = SOUTH END OF  
**END PROJECT IM SURF(34)**  
**I-91 SOUTHBOUND LANE**

EXIT 23  
 RAMP B  
 MM 137.299  
 SEE SHEETS  
 12 & 13

EXIT 24  
 RAMP B  
 MM 140.072  
 SEE SHEETS  
 10 & 11

EXIT 24  
 RAMP A  
 MM 140.265  
 SEE SHEETS  
 10 & 11

REST AREA  
 MM 140.833  
 SEE SHEET 14

BRIDGE #97-S  
 MM 141.505

BRIDGE #99-S  
 MM 145.667

EXIT 25  
 RAMP B  
 MM 155.708  
 SEE SHEET 9

BRIDGE #102-S  
 MM 155.947

EDGE OF PAVEMENT

10' SHOULDER

12' TRAVEL LANE

12' PASSING LANE

SHOULDER

EDGE OF PAVEMENT

4'

6 INCH WHITE LINE

6 INCH DASHED WHITE LINE

6 INCH YELLOW LINE

TO ST. JOHNSBURY

SOUTHBOUND  
 I-91

DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)  
 646.622 TEMPORARY 6 INCH WHITE LINE, PAINT

MM 137.194 - MM 155.987 SB ( SOLID LT )  
 MM 137.194 - MM 155.987 SB ( DASHED )

DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)  
 646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT

MM 137.194 - MM 155.987 SB ( SOLID RT )

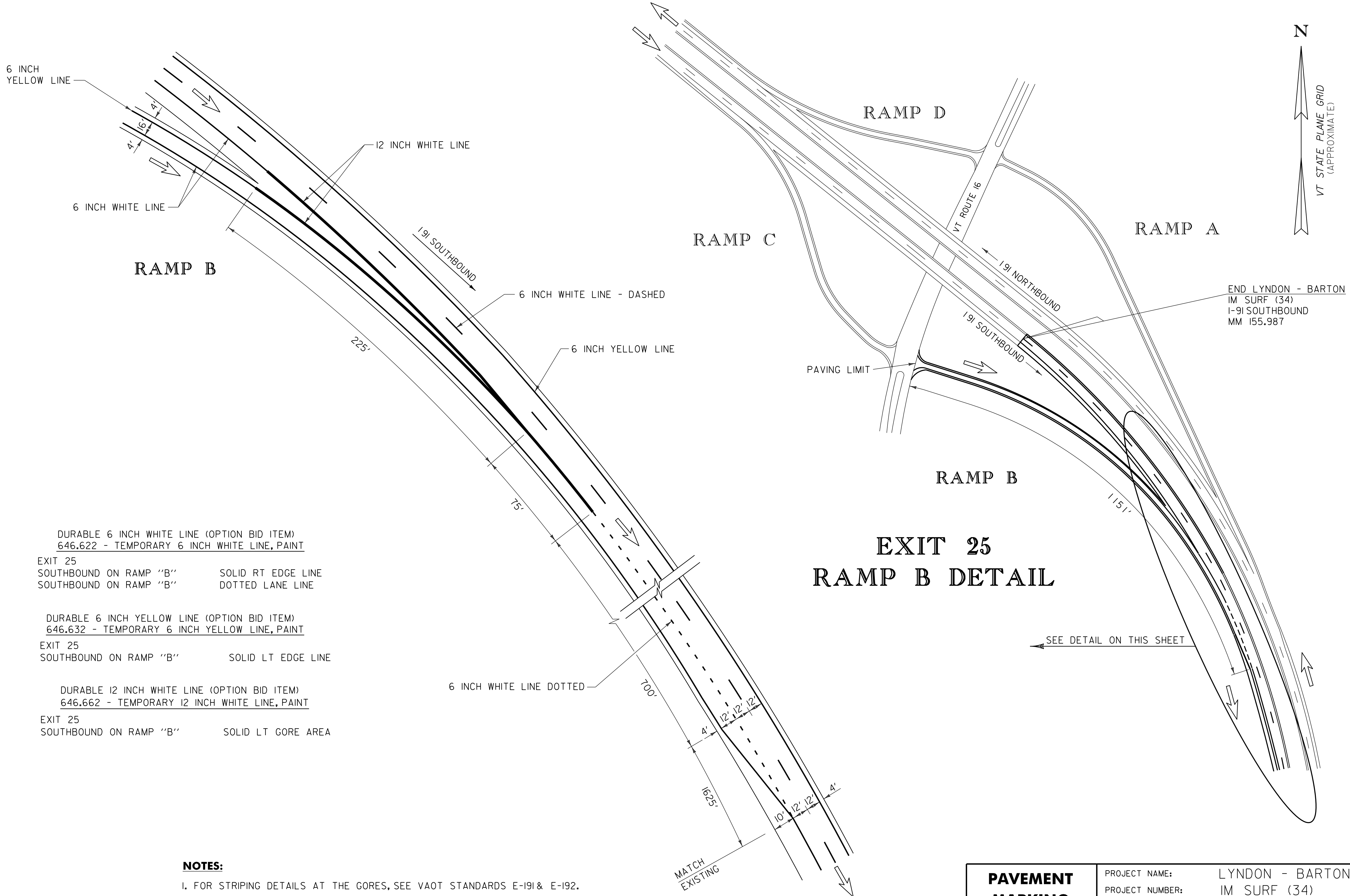
**NOTES:**

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

2. DIRECTION OF TRAVEL →

NOT TO SCALE

|   |                               |                              |
|---|-------------------------------|------------------------------|
| <b>PAVEMENT<br/>MARKING<br/>DETAIL SHEET<br/>MAINLINE</b> | PROJECT NAME:                 | LYNDON - BARTON              |
|   | PROJECT NUMBER:               | IM SURF (34)                 |
|   | FILE NAME: pl2a286.dgn        | PLOT DATE: 15-APR-2014 14:07 |
|   | PROJECT LEADER: M. FOWLER     | DRAWN BY: L. BULLOCK         |
|   | DESIGNED BY: L. BULLOCK       | CHECKED BY: PAVT MGMT        |
|   | IPARM FILE NAME: l2a286pmdl.i | SHEET 9 OF 21                |



- DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)  
646.622 - TEMPORARY 6 INCH WHITE LINE, PAINT
- EXIT 25 SOUTHBOUND ON RAMP "B" SOLID RT EDGE LINE
- SOUTHBOUND ON RAMP "B" DOTTED LANE LINE
  
- DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)  
646.632 - TEMPORARY 6 INCH YELLOW LINE, PAINT
- EXIT 25 SOUTHBOUND ON RAMP "B" SOLID LT EDGE LINE
  
- DURABLE 12 INCH WHITE LINE (OPTION BID ITEM)  
646.662 - TEMPORARY 12 INCH WHITE LINE, PAINT
- EXIT 25 SOUTHBOUND ON RAMP "B" SOLID LT CORE AREA

**NOTES:**

1. FOR STRIPING DETAILS AT THE GORES, SEE VAOT STANDARDS E-191 & E-192.
2. DIRECTION OF TRAVEL ➡

## EXIT 25 RAMP B DETAIL

SEE DETAIL ON THIS SHEET

NOT TO SCALE

|  |                               |                              |
|--|-------------------------------|------------------------------|
| <b>PAVEMENT MARKING<br/>DETAIL SHEET<br/>EXIT 25</b> | PROJECT NAME: LYNDON - BARTON | PLOT DATE: 15-APR-2014 14:07 |
|  | PROJECT NUMBER: IM SURF (34)  | DRAWN BY: L. BULLOCK         |
|  | FILE NAME: pl2a286.dgn        | CHECKED BY: PAVT MGMT        |
|  | PROJECT LEADER: M. FOWLER     | SHEET 10 OF 21               |
| DESIGNED BY: L. BULLOCK                              |                               |                              |
| IPARM FILE NAME: l2a286pmd2.i                        |                               |                              |

DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)  
646.622 - TEMPORARY 6 INCH WHITE LINE, PAINT

EXIT 24  
SOUTHBOUND OFF RAMP "A" SOLID RT EDGE LINE  
SOUTHBOUND OFF RAMP "A" DOTTED LANE LINE  
SOUTHBOUND ON RAMP "B" SOLID RT EDGE LINE  
SOUTHBOUND ON RAMP "B" DOTTED LANE LINE

DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)  
646.632 - TEMPORARY 6 INCH YELLOW LINE, PAINT

EXIT 24  
SOUTHBOUND OFF RAMP "A" SOLID LT EDGE LINE  
SOUTHBOUND ON RAMP "B" SOLID LT EDGE LINE

DURABLE 12 INCH WHITE LINE (OPTION BID ITEM)  
646.662 - TEMPORARY 12 INCH WHITE LINE, PAINT

EXIT 24  
SOUTHBOUND OFF RAMP "A" SOLID LT GORE AREA  
SOUTHBOUND ON RAMP "B" SOLID LT GORE AREA

DURABLE 12 INCH YELLOW LINE (OPTION BID ITEM)  
646.672 - TEMPORARY 12 INCH YELLOW LINE, PAINT

EXIT 24  
SOUTHBOUND OFF RAMP "A" @ VT RTE 122 SOLID LT

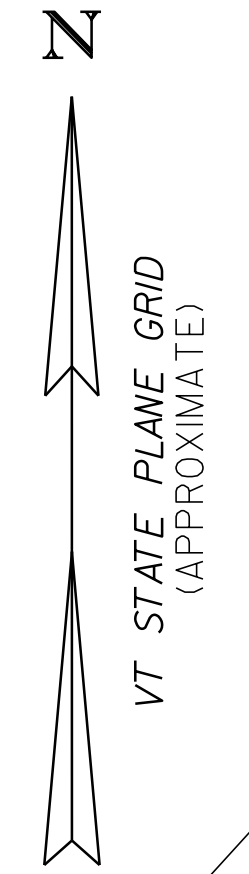
DURABLE LETTER OR SYMBOL (OPTION BID ITEM)  
646.692 - TEMPORARY LETTER OR SYMBOL, PAINT

EXIT 24  
SOUTHBOUND OFF RAMP "A" (SEE NEXT SHEET) "STOP"  
SOUTHBOUND OFF RAMP "A" (SEE NEXT SHEET) "AHEAD"  
SOUTHBOUND OFF RAMP "A" @ VT RTE 122 "STOP"  
SOUTHBOUND OFF RAMP "A" →  
SOUTHBOUND OFF RAMP "A" (SEE NEXT SHEET) →

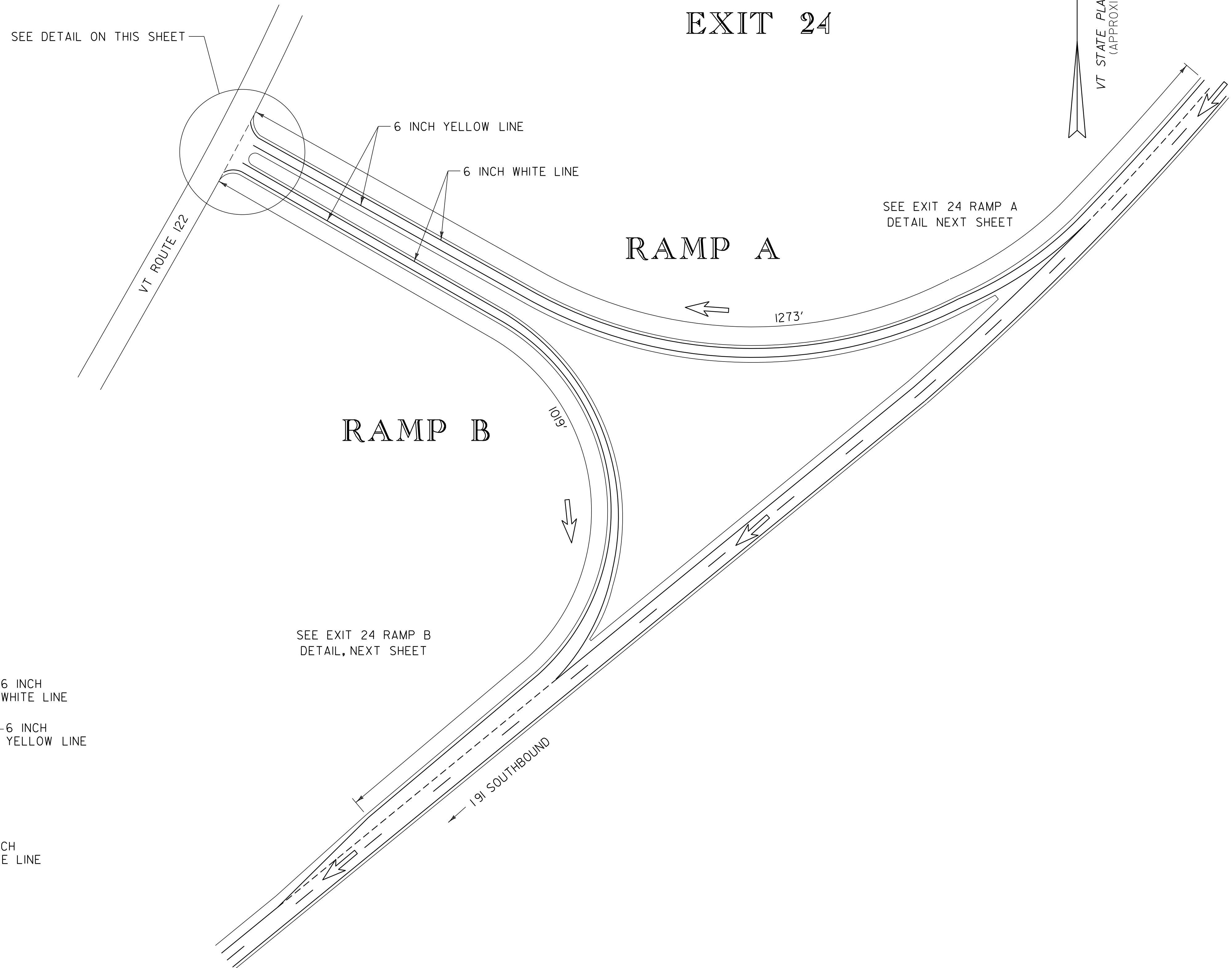
DURABLE 24 INCH STOP BAR (OPTION BID ITEM)  
646.682 - TEMPORARY 24 INCH STOP BAR, PAINT

EXIT 24  
SOUTHBOUND OFF RAMP "A" @ VT RTE 122

EXIT 24



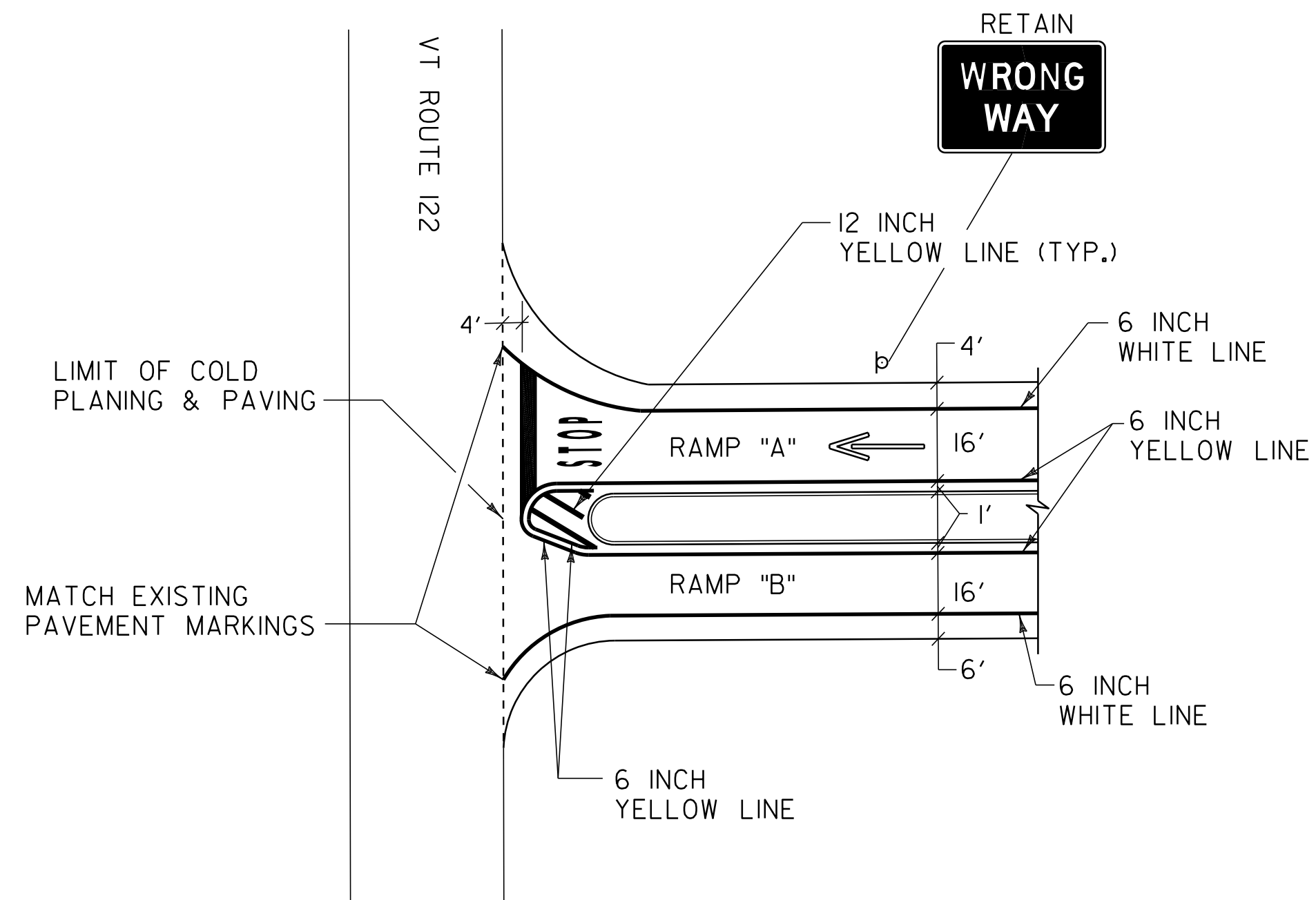
SEE DETAIL ON THIS SHEET



SEE EXIT 24 RAMP A  
DETAIL NEXT SHEET

RAMP B

SEE EXIT 24 RAMP B  
DETAIL, NEXT SHEET



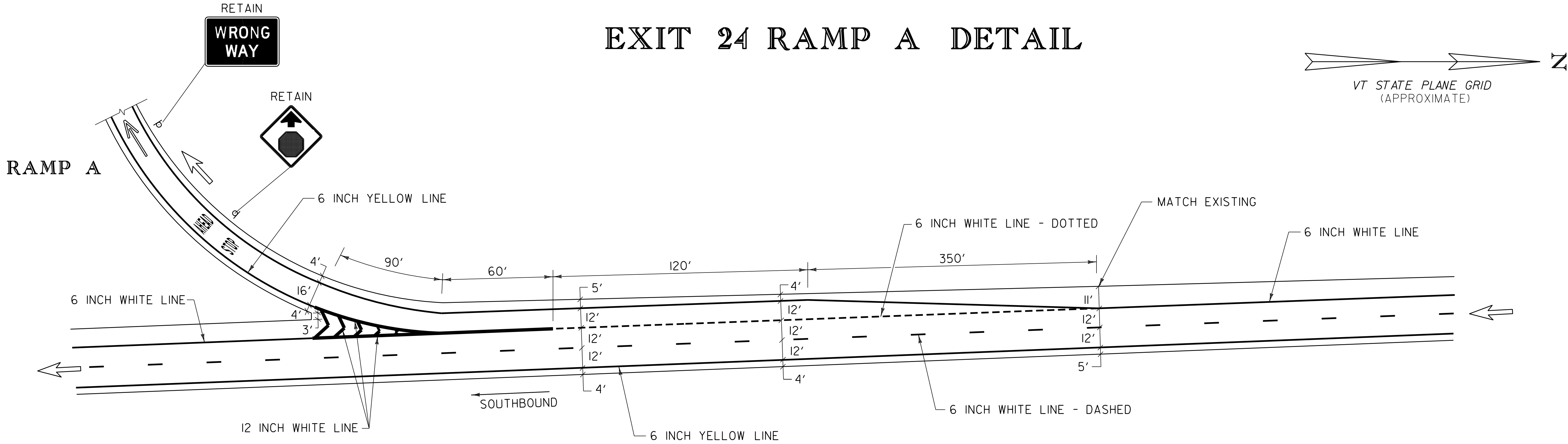
**NOTES:**

1. FOR STRIPING DETAILS AT THE GORES, SEE VAOT STANDARDS E-191 & E-192.
2. DIRECTION OF TRAVEL →

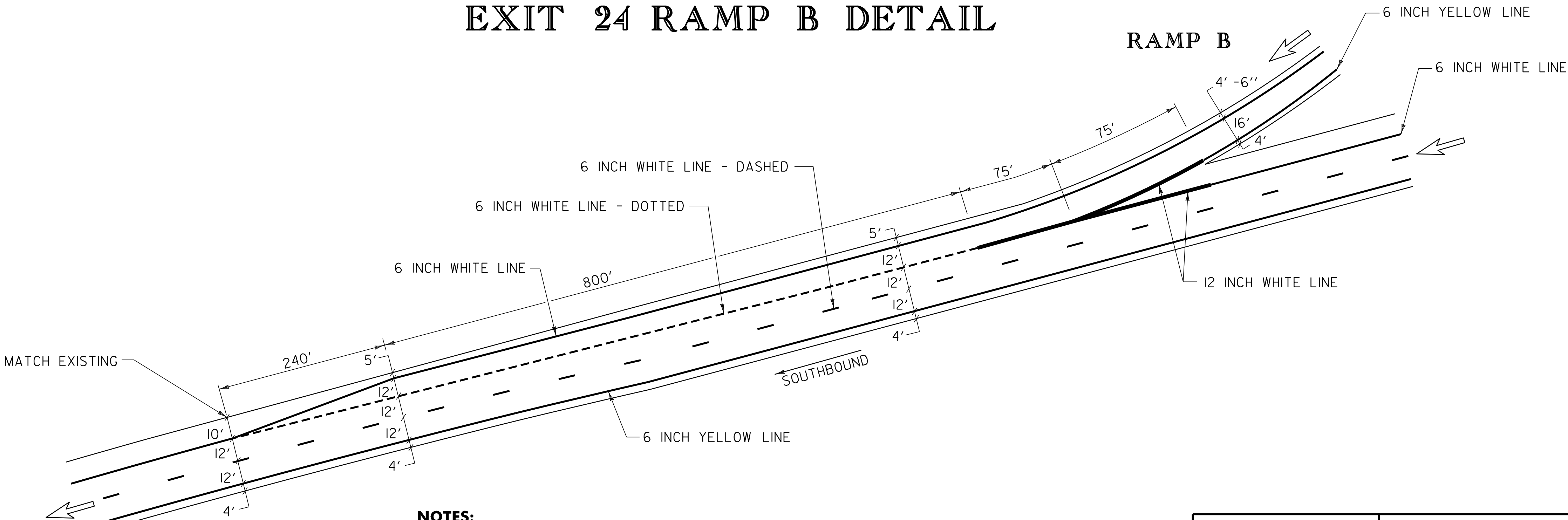
|  |                               |                              |
|--|-------------------------------|------------------------------|
| <b>PAVEMENT<br/>MARKING<br/>DETAIL SHEET 1<br/>EXIT 24</b> | PROJECT NAME: LYNDON - BARTON | PLOT DATE: 15-APR-2014 14:07 |
|  | PROJECT NUMBER: IM SURF (34)  | DRAWN BY: L. BULLOCK         |
|  | FILE NAME: pl2a286.dgn        | CHECKED BY: PAVT MGMT        |
|  | PROJECT LEADER: M. FOWLER     | SHEET 11 OF 21               |
|  | DESIGNED BY: L. BULLOCK       |                              |
|  | IPARM FILE NAME: l2a286pmd3.i |                              |

NOT TO SCALE

# EXIT 24 RAMP A DETAIL



# EXIT 24 RAMP B DETAIL



- NOTES:**
- FOR STRIPING DETAILS AT THE GORES, SEE VAOT STANDARDS E-191 & E-192.
  - DIRECTION OF TRAVEL →

|  |                               |                              |
|--|-------------------------------|------------------------------|
| <b>PAVEMENT MARKING<br/>DETAIL SHEET 2<br/>EXIT 24</b> | PROJECT NAME: LYNDON - BARTON | PLOT DATE: 15-APR-2014 14:07 |
|  | PROJECT NUMBER: IM SURF (34)  | DRAWN BY: L. BULLOCK         |
|  | FILE NAME: p10a120.dgn        | CHECKED BY: PAVT MGMT        |
|  | PROJECT LEADER: M. FOWLER     | SHEET 12 OF 21               |
| DESIGNED BY: L. BULLOCK                                |                               |                              |
| IPARM FILE NAME: 12a286pmd4.i                          |                               |                              |

NOT TO SCALE

DURABLE 6 INCH WHITE LINE (OPTION BID ITEM)  
 646.622 - TEMPORARY 6 INCH WHITE LINE, PAINT

EXIT 23  
 SOUTHBOUND ON RAMP "B"                      SOLID RT EDGE LINE

DURABLE LETTER OR SYMBOL (OPTION BID ITEM)  
 646.692 - TEMPORARY LETTER OR SYMBOL, PAINT

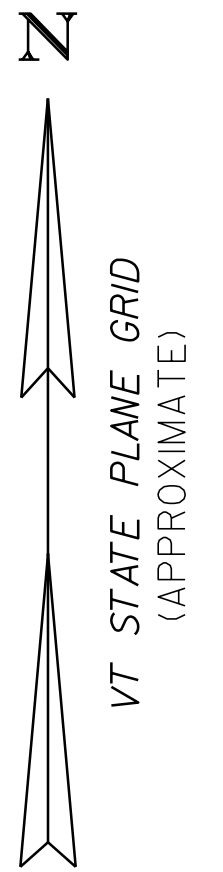
EXIT 23  
 SOUTHBOUND OFF RAMP "B" "STOP"  
 SOUTHBOUND OFF RAMP "B" →

DURABLE 6 INCH YELLOW LINE (OPTION BID ITEM)  
 646.632 - TEMPORARY 6 INCH YELLOW LINE, PAINT

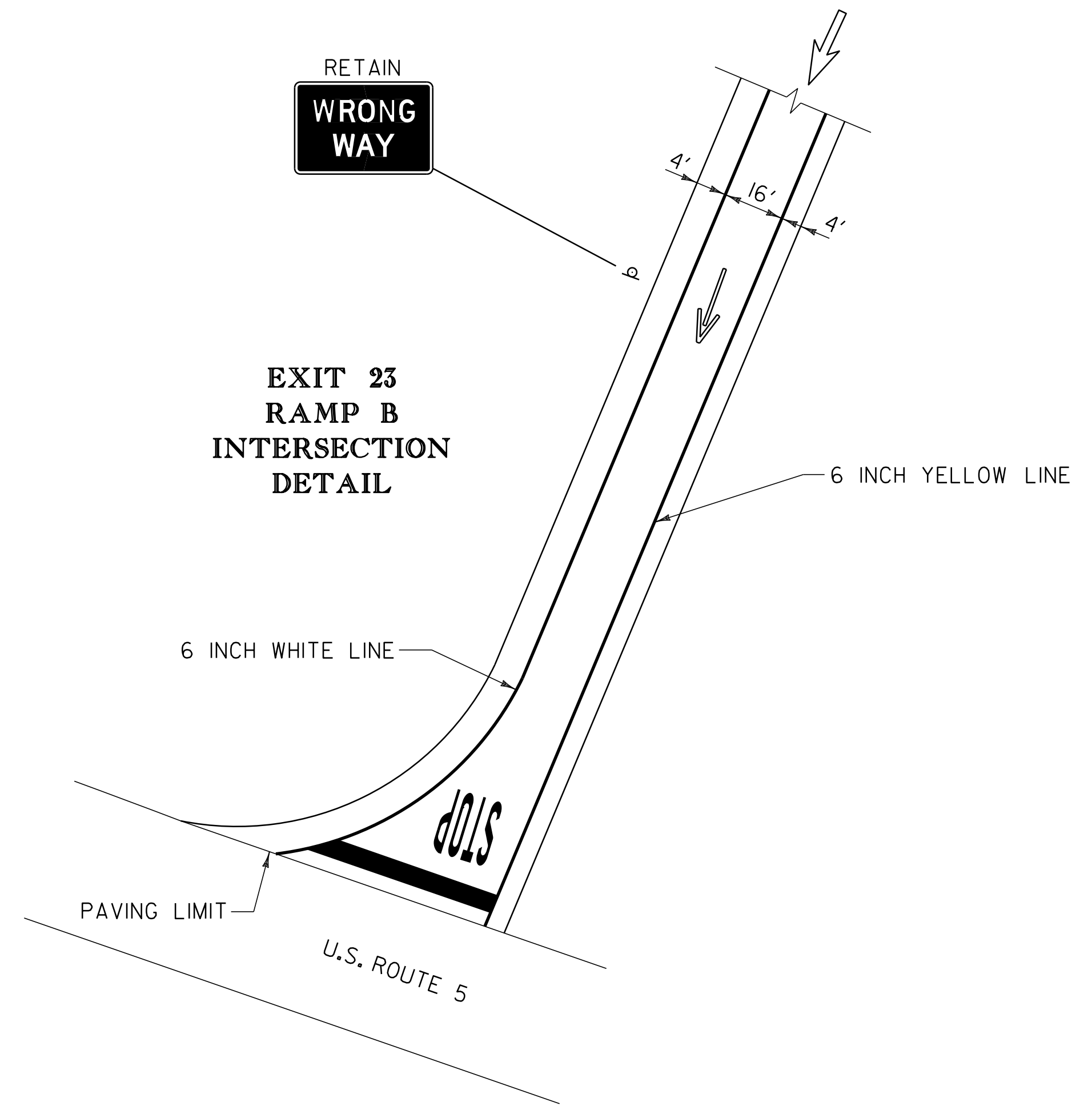
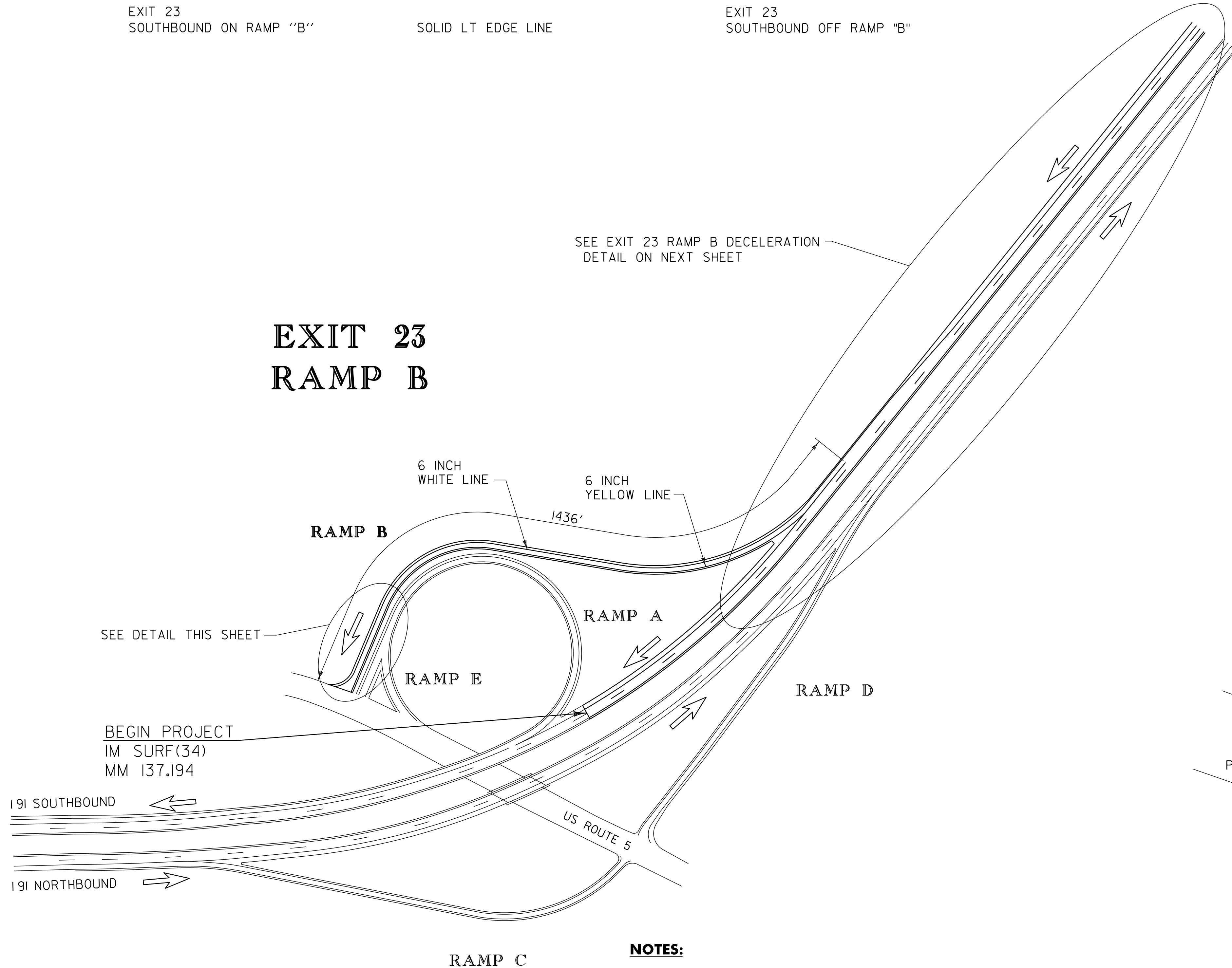
EXIT 23  
 SOUTHBOUND ON RAMP "B"                      SOLID LT EDGE LINE

DURABLE 24 INCH STOP BAR (OPTION BID ITEM)  
 646.682 - TEMPORARY 24 INCH STOP BAR, PAINT

EXIT 23  
 SOUTHBOUND OFF RAMP "B"



# EXIT 23 RAMP B



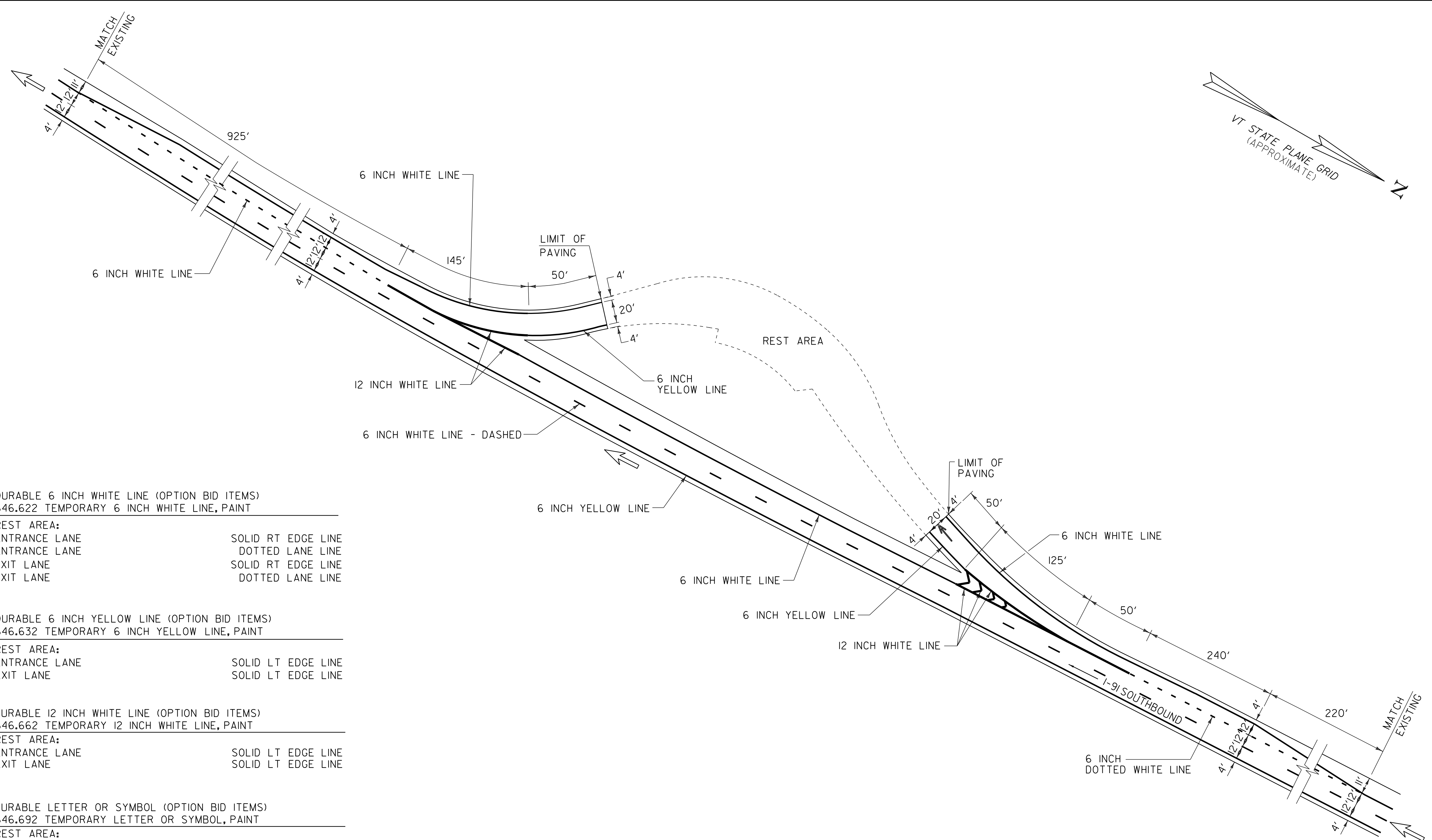
**NOTES:**

- FOR STRIPING DETAILS AT THE GORES, SEE VAOT STANDARDS E-191 & E-192.
- DIRECTION OF TRAVEL →

NOT TO SCALE

|  |                               |                              |
|--|-------------------------------|------------------------------|
| <b>PAVEMENT<br/>MARKING<br/>DETAIL SHEET 1<br/>EXIT 23</b> | PROJECT NAME:                 | LYNDON - BARTON              |
|  | PROJECT NUMBER:               | IM SURF (34)                 |
|  | FILE NAME: pl2a286.dgn        | PLOT DATE: 15-APR-2014 14:07 |
|  | PROJECT LEADER: M. FOWLER     | DRAWN BY: L. BULLOCK         |
|  | DESIGNED BY: L. BULLOCK       | CHECKED BY: PAVT MGMT        |
|  | IPARM FILE NAME: l2a286pmd5.i | SHEET 13 OF 21               |





DURABLE 6 INCH WHITE LINE (OPTION BID ITEMS)  
 646.622 TEMPORARY 6 INCH WHITE LINE, PAINT

REST AREA:  
 ENTRANCE LANE SOLID RT EDGE LINE  
 ENTRANCE LANE DOTTED LANE LINE  
 EXIT LANE SOLID RT EDGE LINE  
 EXIT LANE DOTTED LANE LINE

DURABLE 6 INCH YELLOW LINE (OPTION BID ITEMS)  
 646.632 TEMPORARY 6 INCH YELLOW LINE, PAINT

REST AREA:  
 ENTRANCE LANE SOLID LT EDGE LINE  
 EXIT LANE SOLID LT EDGE LINE

DURABLE 12 INCH WHITE LINE (OPTION BID ITEMS)  
 646.662 TEMPORARY 12 INCH WHITE LINE, PAINT

REST AREA:  
 ENTRANCE LANE SOLID LT EDGE LINE  
 EXIT LANE SOLID LT EDGE LINE

DURABLE LETTER OR SYMBOL (OPTION BID ITEMS)  
 646.692 TEMPORARY LETTER OR SYMBOL, PAINT

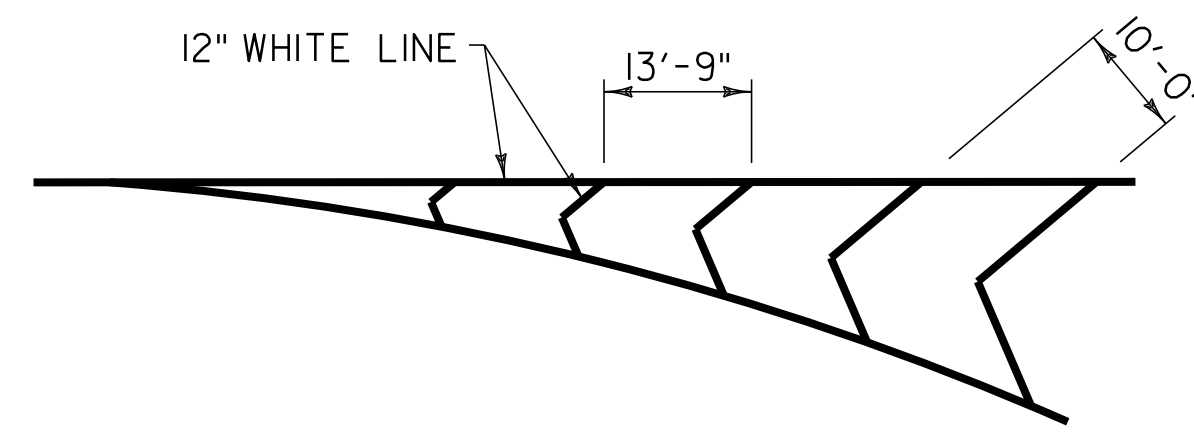
REST AREA:  
 ENTRANCE LANE →

**NOTES:**

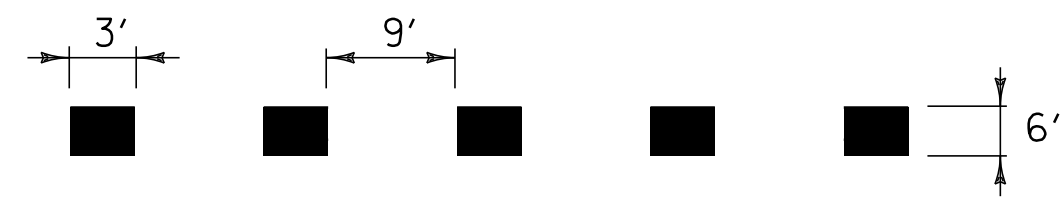
- FOR STRIPING DETAILS AT THE GORES, SEE VAOT STANDARDS E-191 & E-192.
- DIRECTION OF TRAVEL →

NOT TO SCALE

|  |                               |                              |
|--|-------------------------------|------------------------------|
| <b>PAVEMENT<br/>MARKING<br/>DETAIL SHEET<br/>REST AREA</b> | PROJECT NAME:                 | LYNDON - BARTON              |
|  | PROJECT NUMBER:               | IM SURF (34)                 |
|  | FILE NAME: pl2a286.dgn        | PLOT DATE: 15-APR-2014 14:08 |
|  | PROJECT LEADER: M. FOWLER     | DRAWN BY: L. BULLOCK         |
|  | DESIGNED BY: L. BULLOCK       | CHECKED BY: PAVT MGMT        |
|  | IPARM FILE NAME: l2a286pmd7.i | SHEET 15 OF 21               |



**GORE MARKING DETAIL**  
NOT TO SCALE



DOTTED LINE (WHITE)

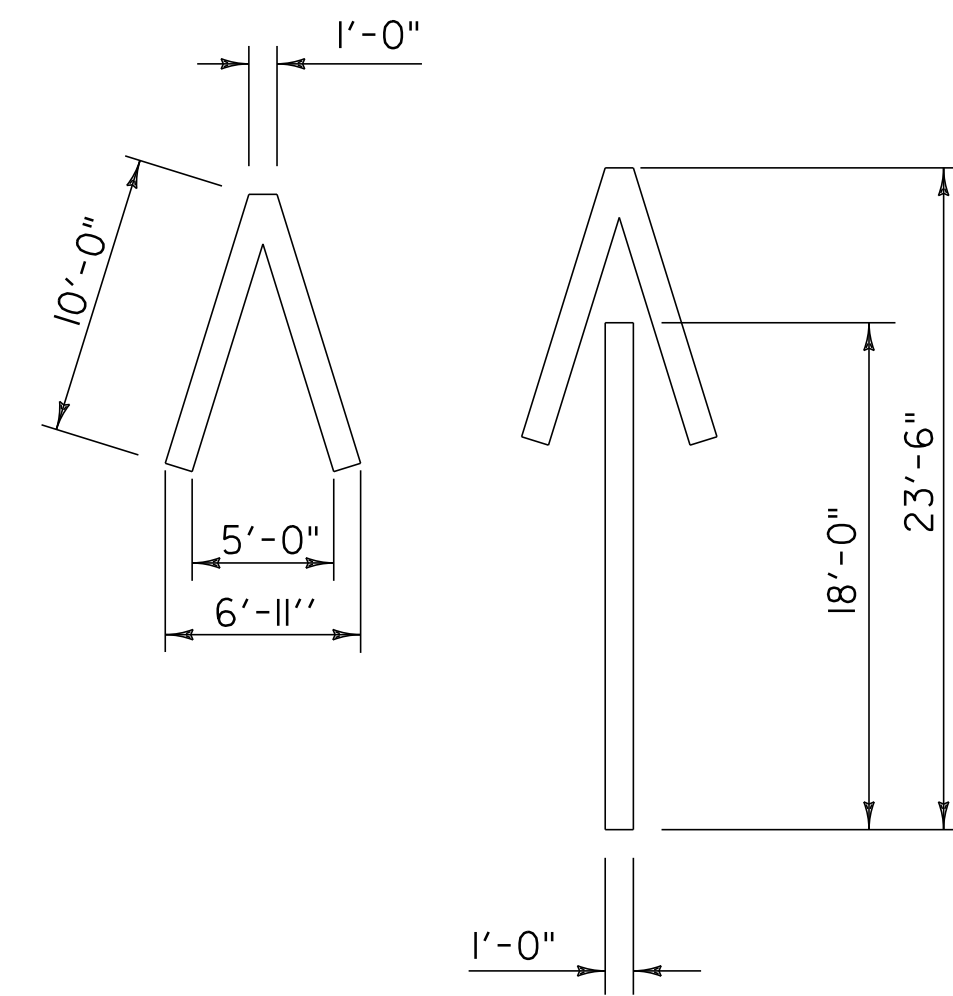


SOLID LINE (WHITE OR YELLOW)

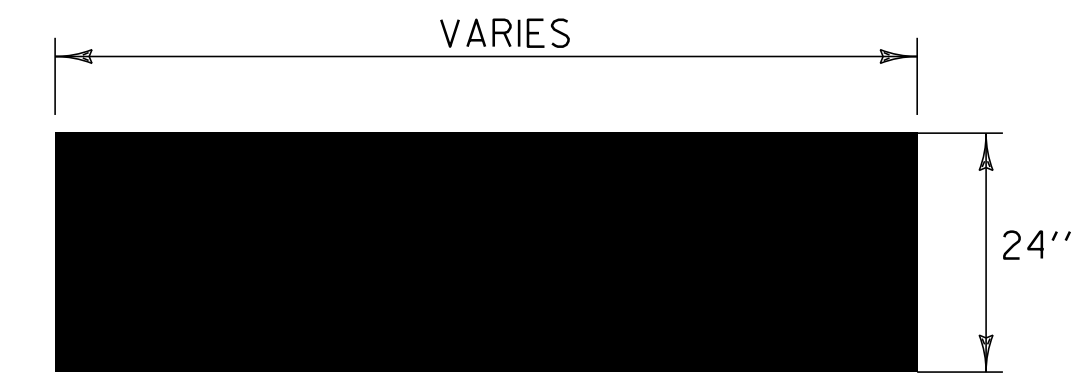


CHANNELIZING LINE (WHITE)

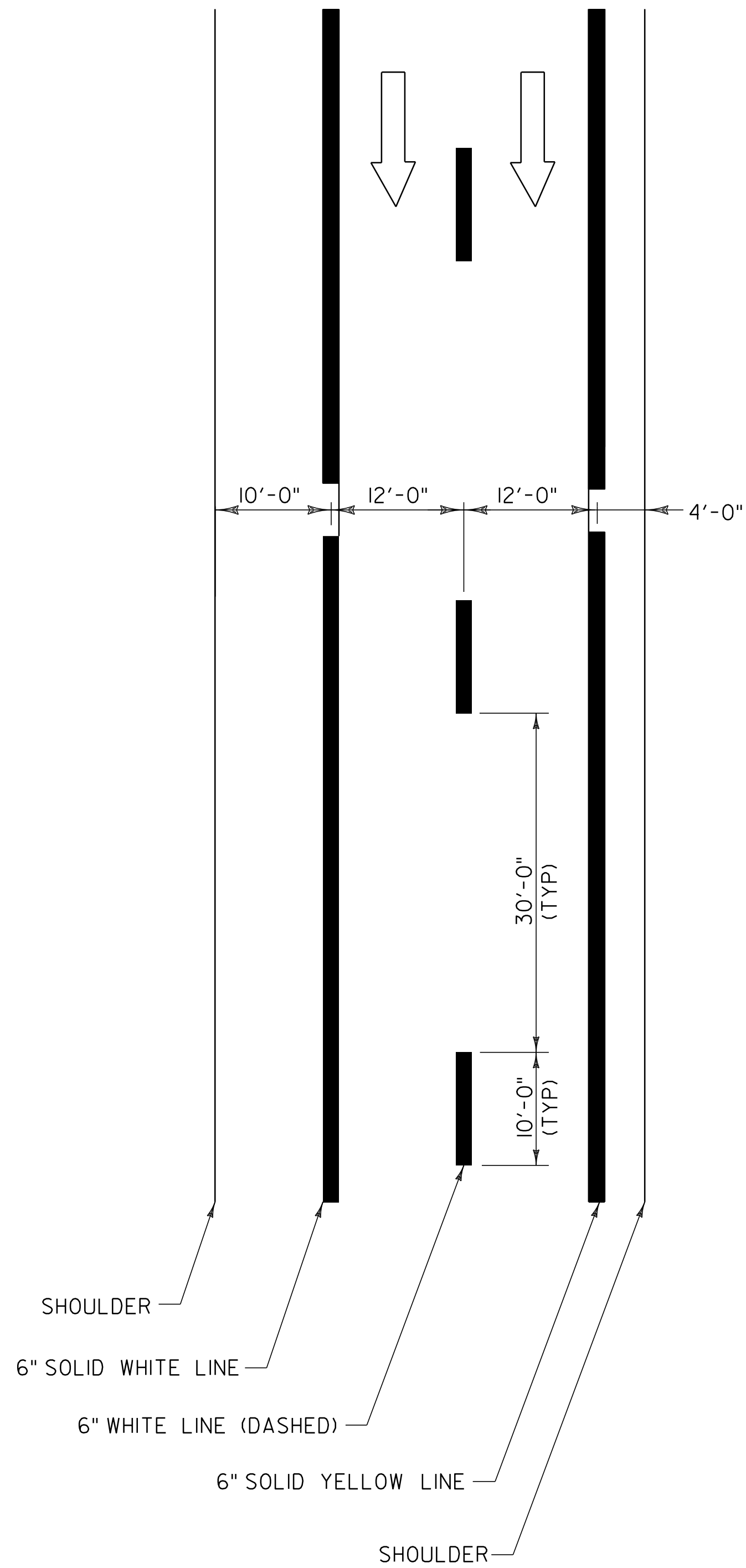
**PAVEMENT MARKING LINE DETAILS**  
NOT TO SCALE



**WRONG WAY ARROW**  
NOT TO SCALE

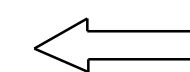


**STOP BAR DETAIL**



**TYPICAL MAINLINE MARKING PLAN**  
NOT TO SCALE

LEGEND



DIRECTION OF TRAFFIC FLOW

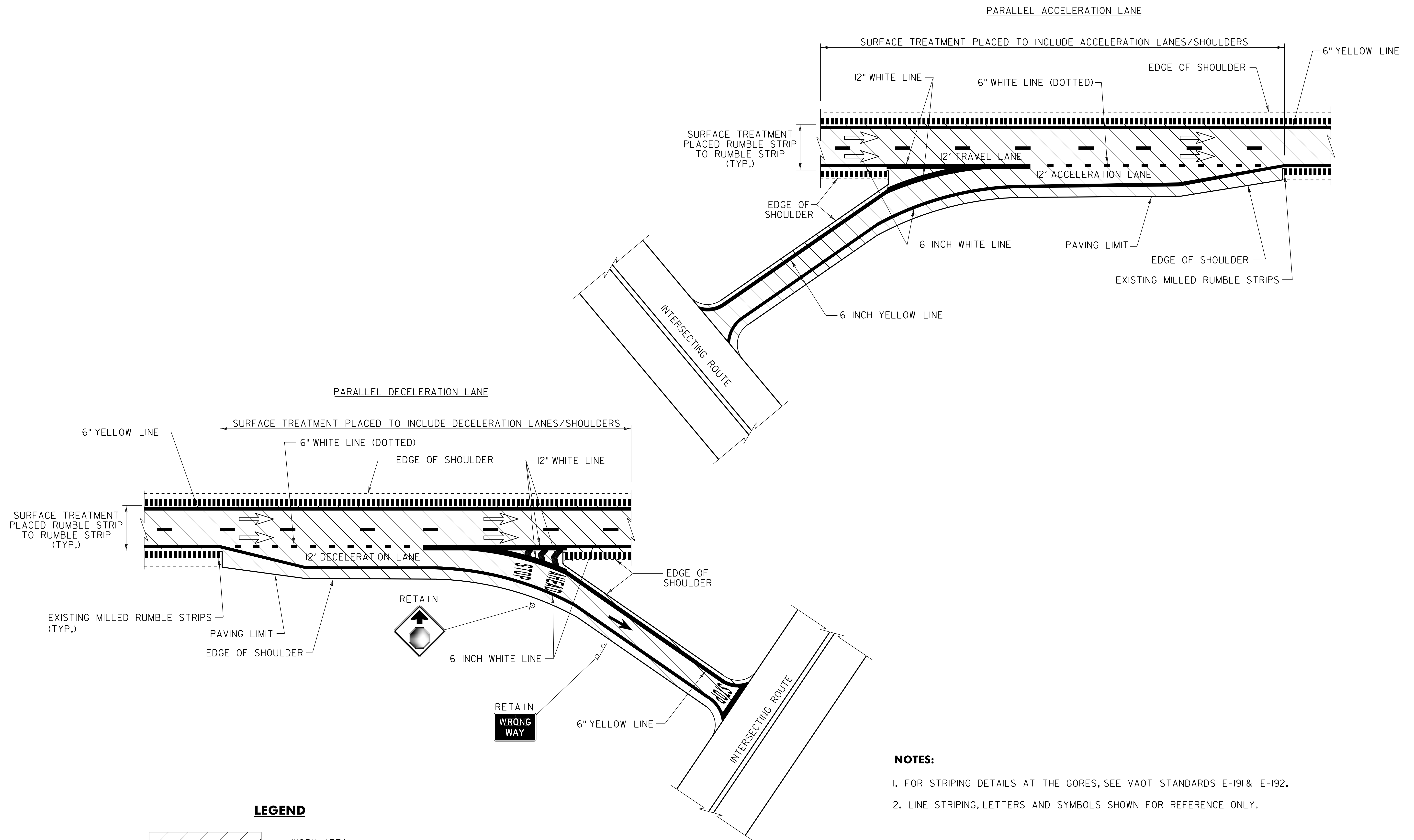
**PAVEMENT MARKING DETAIL SHEET**

PROJECT NAME: LYNDON - BARTON  
PROJECT NUMBER: IM SURF (34)

FILE NAME: I2a286.dgn  
PROJECT LEADER: M. FOWLER  
DESIGNED BY: L. BULLOCK  
IPARM FILE NAME: I2a286pmd8.i

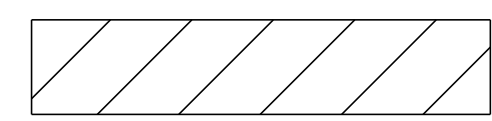
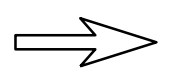

PLOT DATE: 15-APR-2014 14:08  
DRAWN BY: L. BULLOCK  
CHECKED BY: PAVT MGMT  
SHEET 16 OF 21

**TYPICAL RAMP CONSTRUCTION DETAILS**



- NOTES:**
1. FOR STRIPING DETAILS AT THE GOES, SEE VAOT STANDARDS E-191 & E-192.
  2. LINE STRIPING, LETTERS AND SYMBOLS SHOWN FOR REFERENCE ONLY.

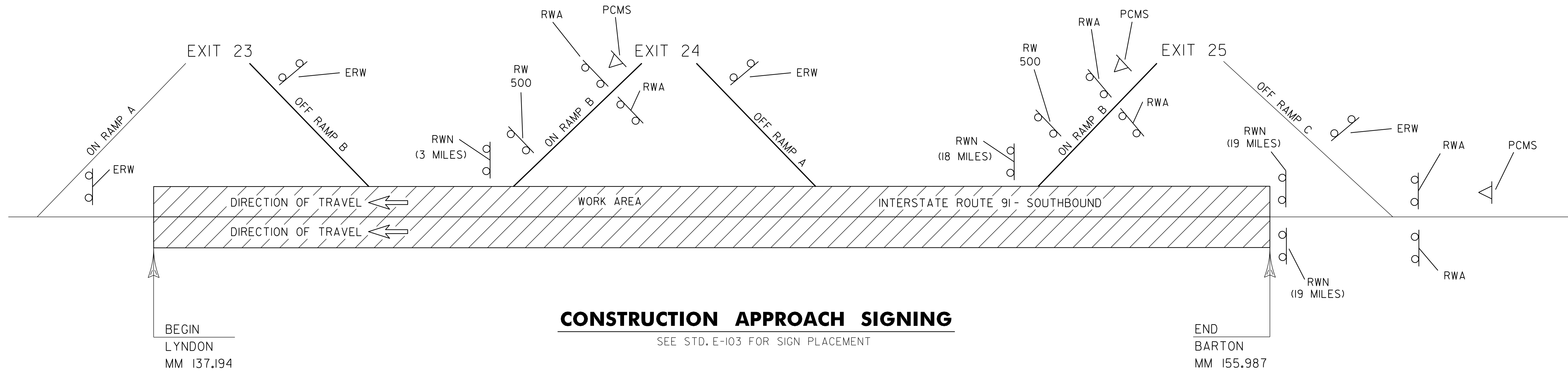
**LEGEND**

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

NOT TO SCALE

|  |                              |                           |                              |
|--|------------------------------|---------------------------|------------------------------|
| <b>TYPICAL RAMP CONSTRUCTION DETAILS</b> | PROJECT NAME: LYNDON-BARTON  | FILE NAME: pl2a286.dgn    | PLOT DATE: 15-APR-2014 14:08 |
|  | PROJECT NUMBER: IM SURF (34) | PROJECT LEADER: M. FOWLER | DRAWN BY: L. BULLOCK         |
|  |                              | DESIGNED BY: L. BULLOCK   | CHECKED BY: PAVT MGMT        |
|  |                              | 12a286pmd9.i              | SHEET 17 OF 21               |

# CONSTRUCTION APPROACH SIGNING SHEET



## CONSTRUCTION APPROACH SIGNING

SEE STD. E-103 FOR SIGN PLACEMENT

LIST OF CONSTRUCTION SIGNS

| LOCATION            | RWA | RW500 | ERW | RWN | PCMS |
|---------------------|-----|-------|-----|-----|------|
| I-91 SOUTHBOUND     |     |       |     |     |      |
| BEGIN PROJECT       |     |       | 1   |     |      |
| EXIT 23 INTERCHANGE |     |       | 1   |     |      |
| EXIT 24 INTERCHANGE | 2   | 1     | 1   | 1   | 1    |
| EXIT 25 INTERCHANGE | 2   | 1     | 1   | 1   | 1    |
| END PROJECT         | 2   |       |     | 2   | 1    |
| TOTALS              | 6   | 2     | 4   | 4   | 3    |

LEGEND

- RWA = ROAD WORK AHEAD
- RW500 = ROAD WORK 500 FEET
- RWN = ROAD WORK NEXT ( ) MILES
- SRWA = SIDE ROAD WORK AHEAD
- ERW = END ROAD WORK
- SRW500 = SIDE ROAD WORK 500 FEET
- ◁ = PORTABLE CHANGEABLE MESSAGE SIGN

### CONSTRUCTION APPROACH SIGNING SHEET

PROJECT NAME: LYNDON-BARTON  
PROJECT NUMBER: IM SURF (34)

FILE NAME: pl2a286.dgn  
PROJECT LEADER: M. FOWLER  
DESIGNED BY: L. BULLOCK  
I2a286cas.i

PLOT DATE: 15-APR-2014 14:08  
DRAWN BY: L. BULLOCK  
CHECKED BY: PAVT MGMT  
SHEET 18 OF 21

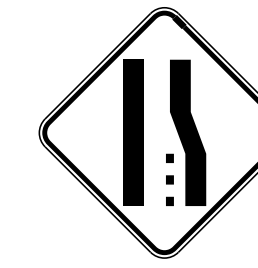
NOT TO SCALE

TRAFFIC CONTROL NOTES:

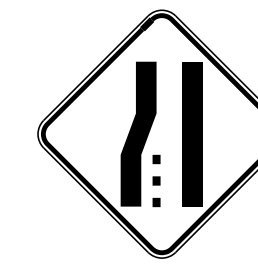
1. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR ITEM 641.10, TRAFFIC CONTROL.
2. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION 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 WILL 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
  - 646.622 - TEMPORARY 6 INCH WHITE LINE, PAINT
  - 646.632 - TEMPORARY 6 INCH YELLOW LINE, PAINT
  - 646.662 - TEMPORARY 12 INCH WHITE LINE, PAINT
  - 646.672 - TEMPORARY 12 INCH YELLOW LINE, PAINT
  - 646.682 - TEMPORARY 24 INCH STOP BAR, PAINT
  - 646.692 - TEMPORARY LETTER OR SYMBOL, PAINT
  - 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 PROJECT, THE CONTRACTOR SHALL POSITION A PCMS PRIOR TO I-91 EXIT 25 SOUTHBOUND WARNING SOUTHBOUND 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. 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.
9. 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.
10. REFER TO VT. STATE STANDARDS, SPECIAL PROVISIONS, AND THE 2009 MUTCD AND IT'S LATEST REVISIONS FOR TEMPORARY TRAFFIC CONTROL SIGN COLORS.
11. ADDITIONAL RAMP SIGNING MAY BE REQUIRED AS DIRECTED BY THE ENGINEER. ANY ADDITIONAL RAMP SIGNING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10, TRAFFIC CONTROL.
12. THE DISTANCE SHOWN ON THE "ROAD WORK NEXT XXX MILES" (G20-1) SHALL BE STATED TO THE NEAREST ONE MILE. REFER TO PART 6 OF THE 2009 MUTCD SECTION 6F.56.
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 TWO MILES WHERE APPLICABLE AS A REMINDER TO THE MOTORIST TRAVELLING THROUGH THE WORK ZONE THE SPEED THEY SHOULD BE TRAVELLING.

16. 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 REDUCED SPEED ZONE.

17. ON VTRANS STANDARD E-103, SIGN W4-2 MAY BE REPLACED WITH W9-2:



W4-2



W9-2



**TRAFFIC CONTROL NOTES**

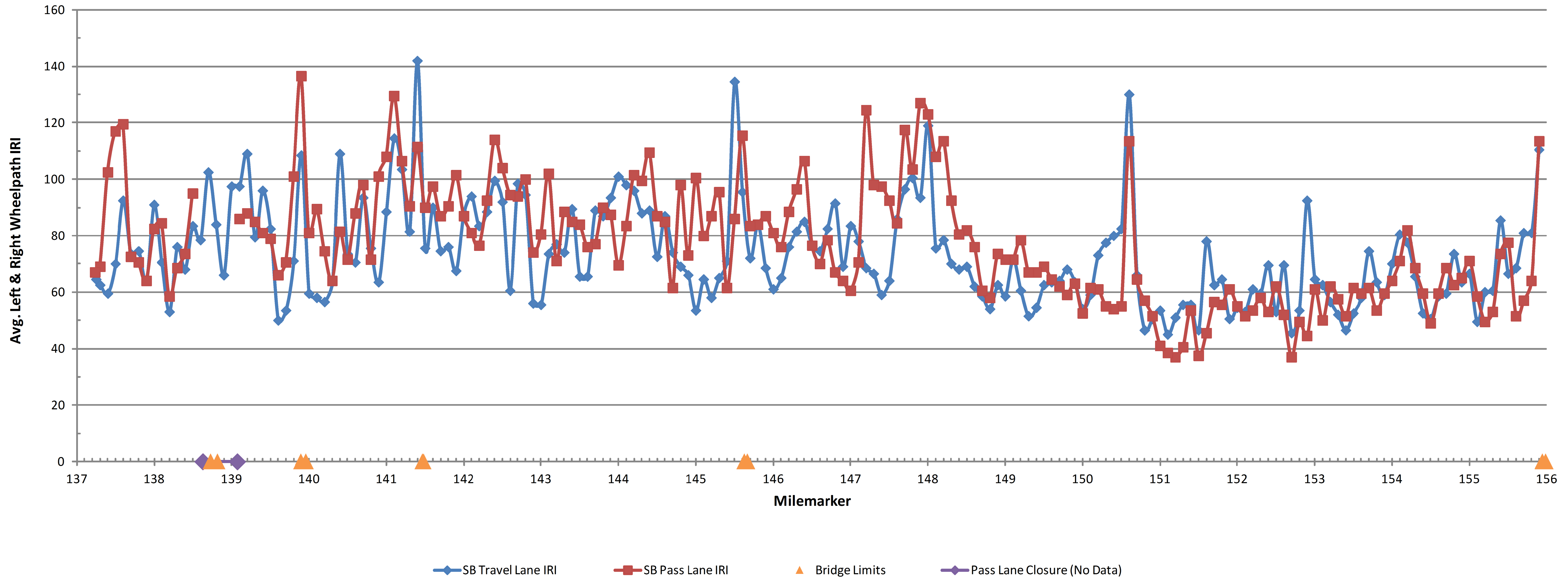
PROJECT NAME: LYNDON-BARTON  
PROJECT NUMBER: IM SURF (34)

FILE NAME: pl2a286.dgn  
PROJECT LEADER: M. FOWLER  
DESIGNED BY: L. BULLOCK  
12a286+cn.i

PLOT DATE: 15-APR-2014 14:08  
DRAWN BY: L. BULLOCK  
CHECKED BY: PAVT MGMT  
SHEET 19 OF 21

### I-91 SB Lyndon-Barton IM SURF(34) Preconstruction IRI Profile

Profiled 7/9/2012 Travel Lane Avg. IRI = 73.4 Pass Lane Avg. IRI = 77.1



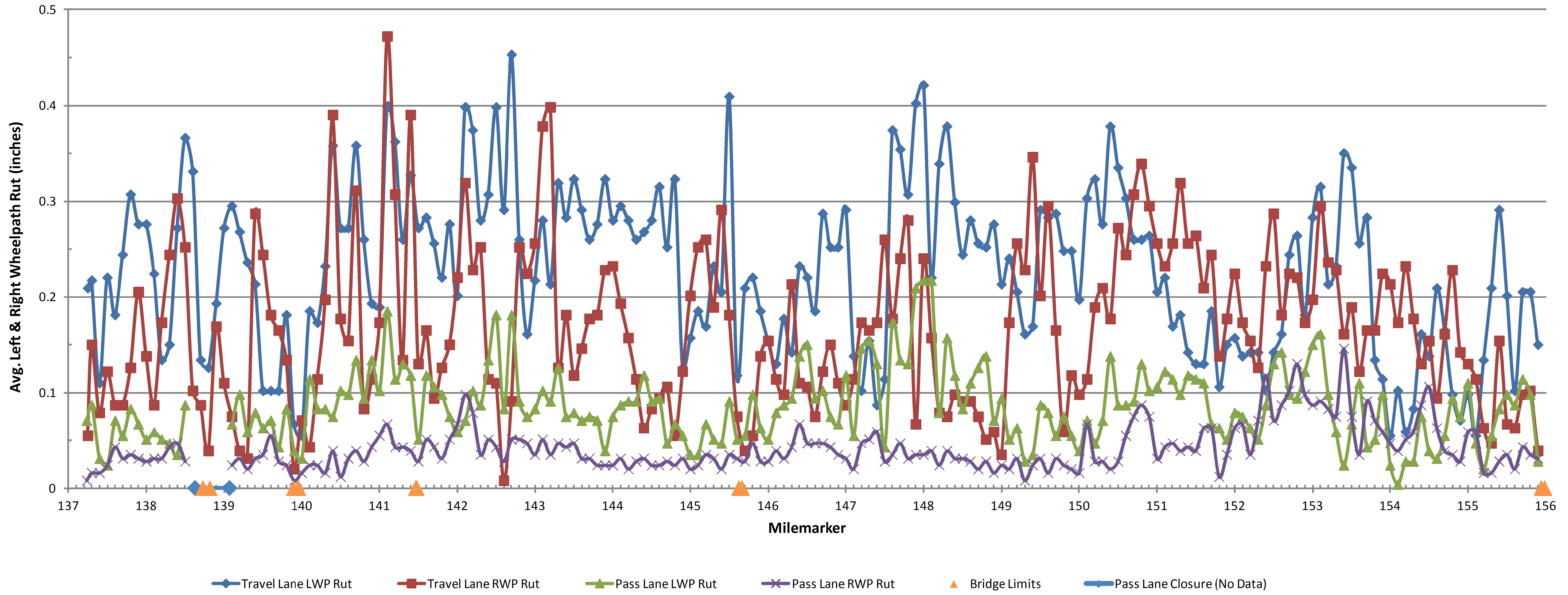
**FOR INFORMATIONAL PURPOSES ONLY**

|   |                           |                              |
|---|---------------------------|------------------------------|
| <b>ROUGHNESS<br/>DATA<br/>INFORMATION<br/>SHEET</b> | PROJECT NAME:             | LYNDON - BARTON              |
|   | PROJECT NUMBER:           | IM SURF (34)                 |
|   | FILE NAME: pi0a120.dgn    | PLOT DATE: 15-APR-2014 14:08 |
|   | PROJECT LEADER: M. FOWLER | DRAWN BY: L. BULLOCK         |
| DESIGNED BY: L. BULLOCK                             | CHECKED BY: PAVT MGMT     |                              |
| IPARM FILE NAME: i2a286r.uf.i                       | SHEET 20                  | OF 21                        |

# I-91 SB Lyndon-Barton IM SURF(34) Preconstruction Rut Profile

Profiled 7/9/2012

Travel Lane LWP Avg. Rut = 0.228 Travel Lane RWP Avg. Rut = 0.168 Pass Lane LWP Avg. Rut = 0.086 Pass Lane RWP Avg. Rut = 0.042 (inches)



**FOR INFORMATIONAL PURPOSES ONLY**

|   |                           |                              |
|---|---------------------------|------------------------------|
| <b>RUTTING<br/>DATA<br/>INFORMATION<br/>SHEET</b> | PROJECT NAME:             | LYNDON - BARTON              |
|   | PROJECT NUMBER:           | IM SURF (34)                 |
|   | FILE NAME: p12a286.dgn    | PLOT DATE: 15-APR-2014 14:08 |
|   | PROJECT LEADER: M. FOWLER | DRAWN BY: L. BULLOCK         |
| DESIGNED BY: L. BULLOCK                           | CHECKED BY: PAVT MGMT     |                              |
| IPARM FILE NAME: 12a286rut.i                      | SHEET 21 OF 21            |                              |