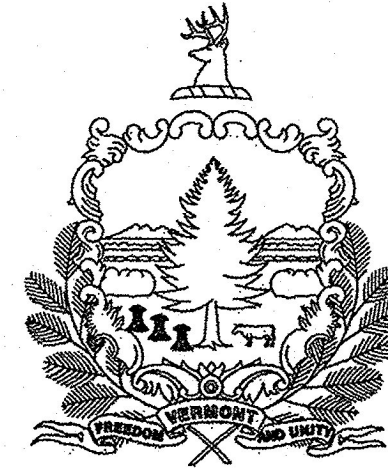


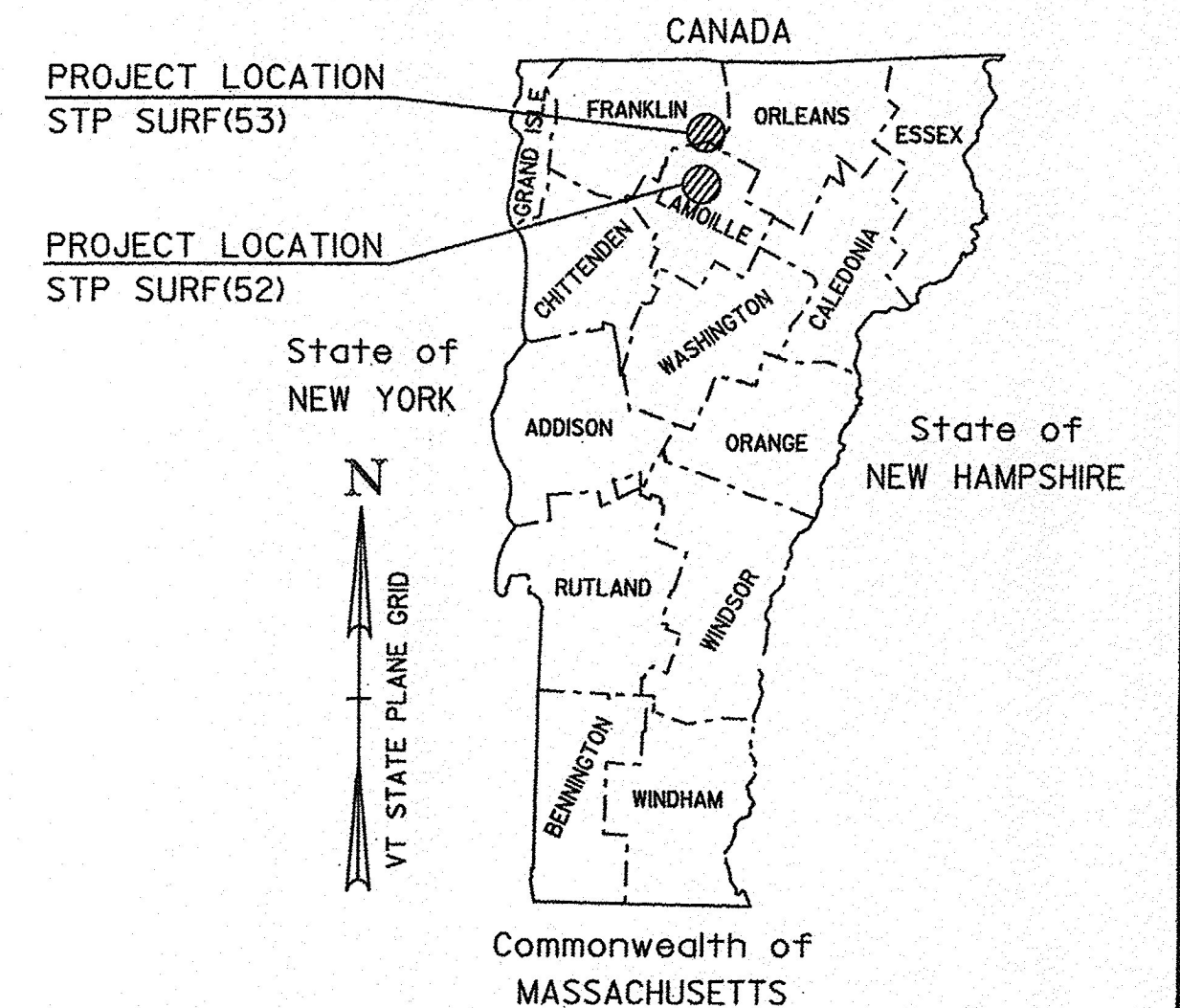
STATE OF VERMONT AGENCY OF TRANSPORTATION



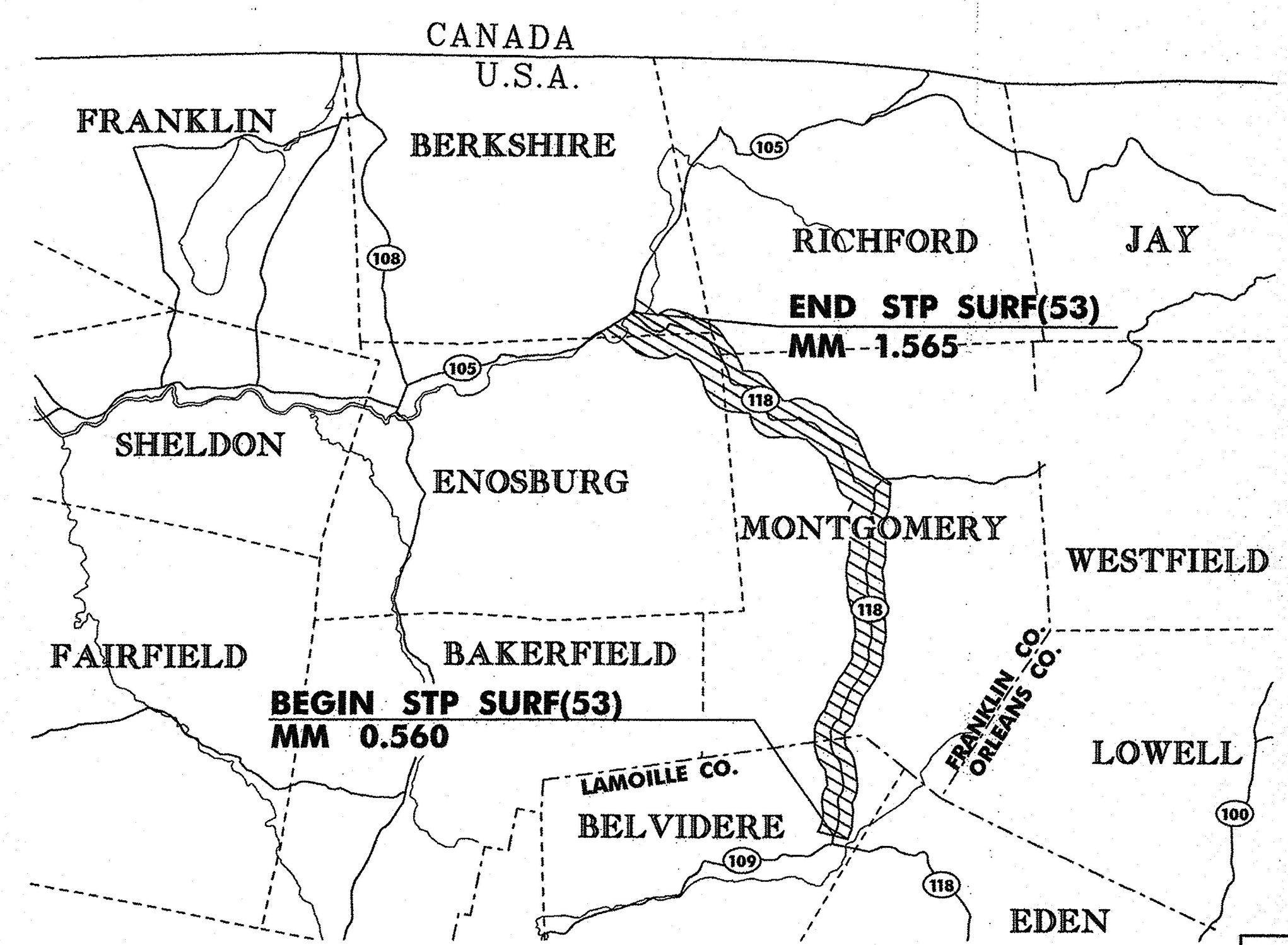
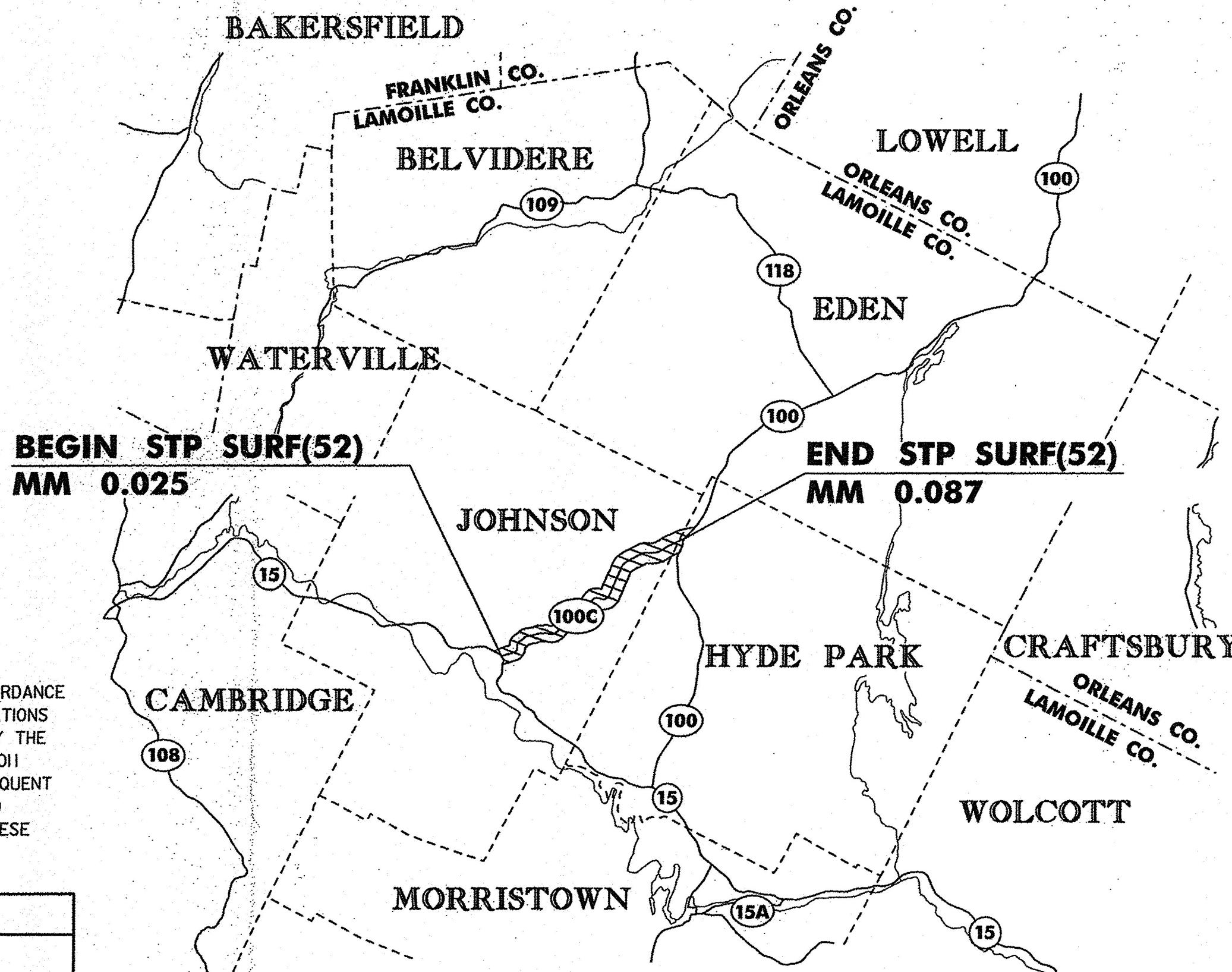
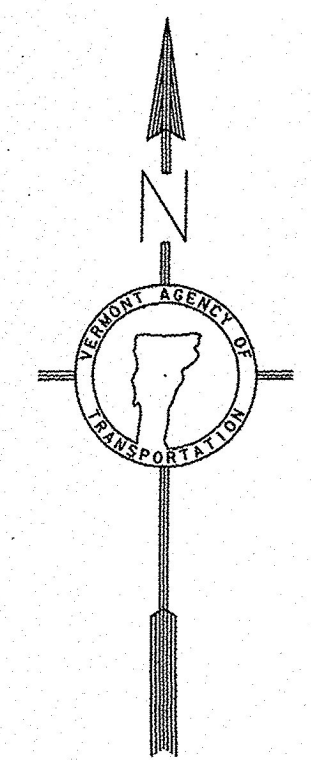
PROPOSED IMPROVEMENT TOWNS OF JOHNSON & HYDE PARK TOWNS OF BELVIDERE, MONTGOMERY, ENOSBURG & BERKSHIRE COUNTIES OF LAMOILLE & FRANKLIN VT ROUTES 100C & 118 (MAJOR COLLECTORS)

JOHNSON - HYDE PARK
COUNTY OF LAMOILLE
STP SURF(52)
SEE SHEET 11
FOR ADDITIONAL PROJECT INFORMATION

BELVIDERE - BERKSHIRE
COUNTIES OF LAMOILLE & FRANKLIN
STP SURF(53)
SEE SHEET 24
FOR ADDITIONAL PROJECT INFORMATION



RECORD PLANS	
CONTRACTOR:	ALL STATES ASPHALT, INC. - SUNDERLAND, MA
RESIDENT ENGINEER:	DELVIN WARNER
CONSTRUCTION BEGAN:	MAY 16, 2016
CONSTRUCTION COMPLETE:	AUGUST 11, 2016
RECORD PLANS BY:	DELVIN WARNER & JESSE IVES
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.	
BY <i>Delvin Warner</i>	RESIDENT ENGINEER
DATE	09-13-2018
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.	



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

QUALITY ASSURANCE PROGRAM : LEVEL 3
SURVEYED BY : N/A
SURVEYED DATE : N/A
DATUM
VERTICAL N/A
HORIZONTAL N/A

NOT TO SCALE

DIRECTOR OF PROJECT DELIVERY
APPROVED <i>[Signature]</i> DATE 10/27/2015
PROJECT MANAGER : MICHAEL J. FOWLER, P.E.
PROJECT NAME : JOHNSON - HYDE PARK BELVIDERE - BERKSHIRE
PROJECT NUMBER : STP SURF (52) , STP SURF (53)
SHEET 1 OF 45 SHEETS

INDEX OF SHEETS

COMPOSITE

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2. COMPOSITE INDEX OF SHEETS
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- 4.-5. TYPICAL SECTIONS SHEETS 1 & 2
6. NOTES COMMON TO BOTH ALTERNATES
7. - 8. MICRO-MILL DETAILS SHEETS 1 & 2
- 8A. CENTERLINE RUMBLE STRIP DETAIL SHEET
9. - 10. COMPOSITE QUANTITY SHEETS 1 & 2

JOHNSON - HYDE PARK STP SURF(52)

11. TITLE SHEET
- 12.-13. QUANTITY SHEETS 1 & 2
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BELVIDERE - BERKSHIRE STP SURF(53)

24. TITLE SHEET
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- 32.-35. SPECIAL MICRO-MILLING DETAIL SHEETS 1-4
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41. ROUGHNESS DATA INFORMATION SHEET
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STRUCTURES DETAIL SHEET

SD-516.10 BRIDGE JOINT ASPHALTIC PLUG

VAOT STANDARDS

E-191	02/01/99
E-192	10/12/00
E-193	08/18/95
T-1	08/06/12
T-10	08/06/12
T-17	08/06/12
T-28	08/06/12
T-29	08/06/12
T-30	08/06/12
T-31	08/06/12
T-33	08/06/12
T-36	08/06/12

PROJECT NAME: JOHNSON - HYDE PARK, BELVIDERE - BERKSHIRE

PROJECT NUMBER: STP SURF(52), STP SURF(53)

FILE NAME: I4v204\pi4v204.dgn\pi4v204_02.I PLOT DATE: 04-NOV-2015

PROJECT LEADER: M. FOWLER DRAWN BY: K. LOCKE

DESIGNED BY: K. LOCKE CHECKED BY: M. FOWLER

COMPOSITE INDEX OF SHEETS SHEET 2 OF 45

GENERAL INFORMATION

SYMBOLGY LEGEND NOTE

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

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

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

COMMON TOPOGRAPHIC POINT SYMBOLS

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

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

PROPOSED GEOMETRY CODES

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

UTILITY SYMBOLGY

UNDERGROUND UTILITIES

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

ABOVE GROUND UTILITIES (AERIAL)

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

PROJECT CONSTRUCTION SYMBOLGY

—	CLEAR ZONE
—	PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

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

**CONVENTIONAL BOUNDARY SYMBOLGY**

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

**EPSC LAYOUT PLAN SYMBOLGY**

**EPSC MEASURES**

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

**ENVIRONMENTAL RESOURCES**

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

**ARCHEOLOGICAL & HISTORIC**

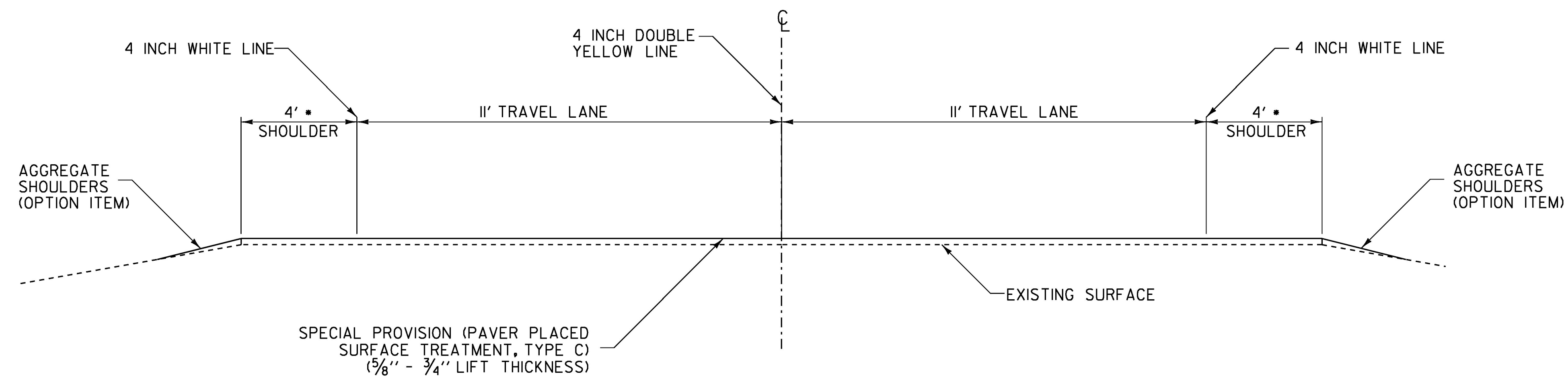
—	ARCHEOLOGICAL BOUNDARY
—	HISTORIC DISTRICT BOUNDARY
—	HISTORIC AREA
(H)	HISTORIC STRUCTURE

**CONVENTIONAL TOPOGRAPHIC SYMBOLGY**

**EXISTING FEATURES**

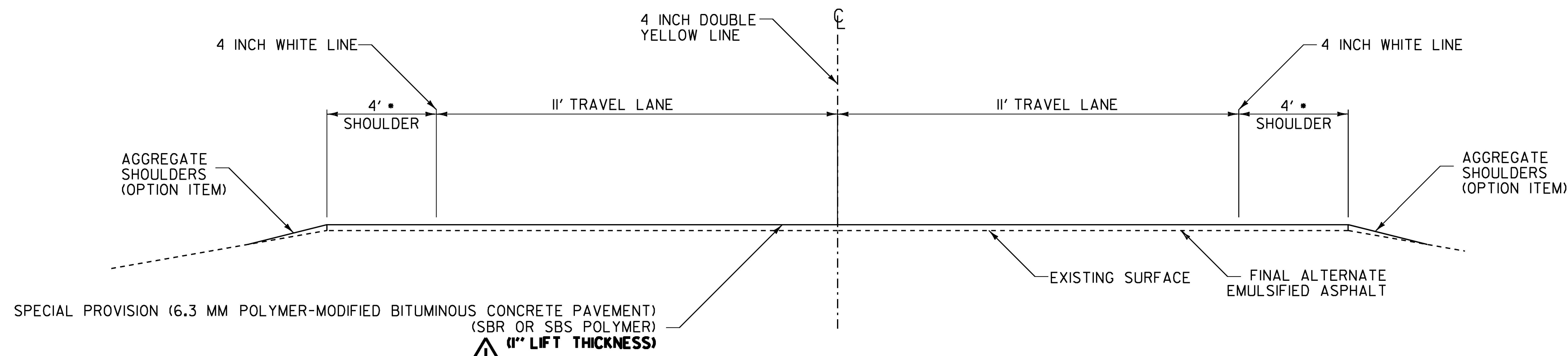
—	ROAD EDGE PAVEMENT
—	ROAD EDGE GRAVEL
—	DRIVEWAY EDGE
—	DITCH
—	FOUNDATION
—	FENCE (EXISTING)
—	FENCE WOOD POST
—	FENCE STEEL POST
—	GARDEN
—	ROAD GUARDRAIL
—	RAILROAD TRACKS
—	CULVERT (EXISTING)
—	STONE WALL
—	WALL
—	WOOD LINE
—	BRUSH LINE
—	HEDGE
—	BODY OF WATER EDGE
—	LEDGE EXPOSED

PROJECT NAME: JOHNSON - HYDE PARK, BELVIDERE - BERKSHIRE  
 PROJECT NUMBER: STP SURF(52), STP SURF(53)  
 FILE NAME: I4v204\pi4v204.dgn\pi4v203_03.I PLOT DATE: 04-NOV-2015  
 PROJECT LEADER: M. FOWLER DRAWN BY: K. LOCKE  
 DESIGNED BY: K. LOCKE CHECKED BY: M. FOWLER  
 CONVENTIONAL SYMBOLGY LEGEND SHEET SHEET 3 OF 45



**TYPICAL SECTION ALTERNATE A**  
**VT ROUTE 100C MM 1.037 (JOHNSON) - MM 0.044 (HYDE PARK)**  
**VT ROUTE 118 MM 0.560 (BELVIDERE) - MM 5.565 (MONTGOMERY)**

- 4' SHOULDER WIDTH WILL BE APPLICABLE IN MOST AREAS. IN AREAS WHERE THE SHOULDER IS LESS THAN OR EXCEEDS 4' IN WIDTH THE CONTRACTOR SHALL FOLLOW THE EXISTING SHOULDER WIDTH.



**TYPICAL SECTION ALTERNATES B & C**  
**VT ROUTE 100C MM 1.037 (JOHNSON) - MM 0.044 (HYDE PARK)**  
**VT ROUTE 118 MM 0.560 (BELVIDERE) - MM 5.565 (MONTGOMERY)**

- 4' SHOULDER WIDTH WILL BE APPLICABLE IN MOST AREAS. IN AREAS WHERE THE SHOULDER IS LESS THAN OR EXCEEDS 4' IN WIDTH THE CONTRACTOR SHALL FOLLOW THE EXISTING SHOULDER WIDTH.

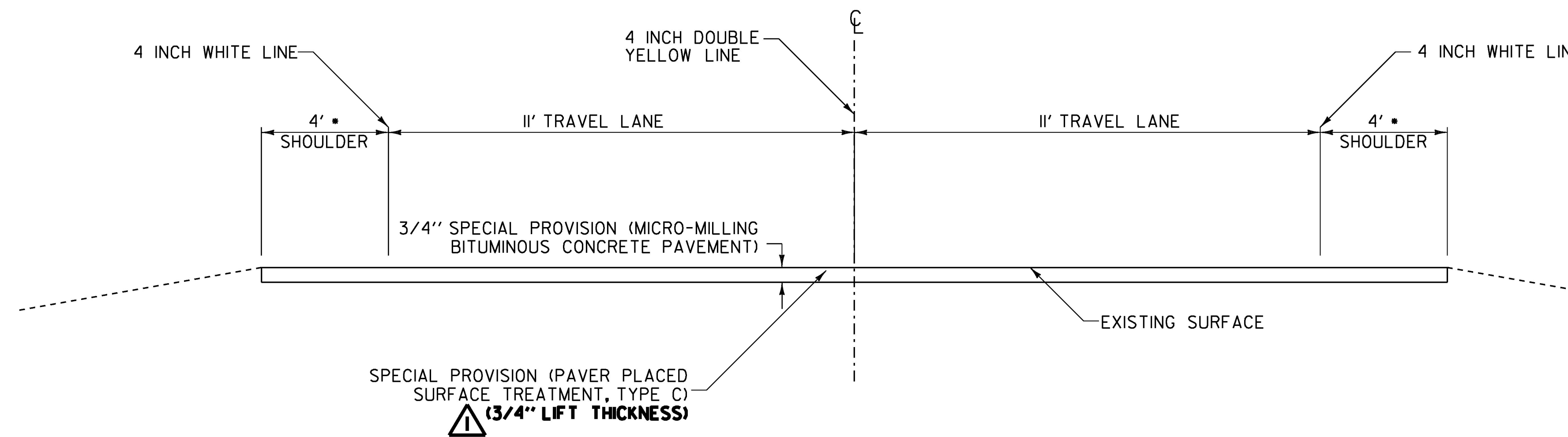
NOTES:  
 1. PRIOR TO THE PLACEMENT OF THE POLYMER-MODIFIED BITUMINOUS CONCRETE PAVEMENT, EMULSIFIED ASPHALT SHALL BE APPLIED TO ALL EXISTING PAVEMENT SURFACES AND ON ALL MICRO-MILLED SURFACES AT A RATE OF 0.080 GAL/SY (+/- 0.01GAL/SY) OR AS DIRECTED BY THE ENGINEER.

**2. SPECIAL PROVISION (6.3 MM POLYMER - MODIFIED BITUMINOUS CONCRETE PAVEMENT) (SBR OR SBS POLYMER) (1" LIFT THICKNESS) PAVEMENT TOLERANCE = +/- 1/8 INCH (TOTAL THICKNESS).**

REVISION	DATE	DESCRIPTION	BY
⚠	01-27-16	LIFT THICKNESS CHANGED FROM 3/4" - 1" TO 1". ADDED THICKNESS TOLERANCE NOTE.	KML

**NOT TO SCALE**

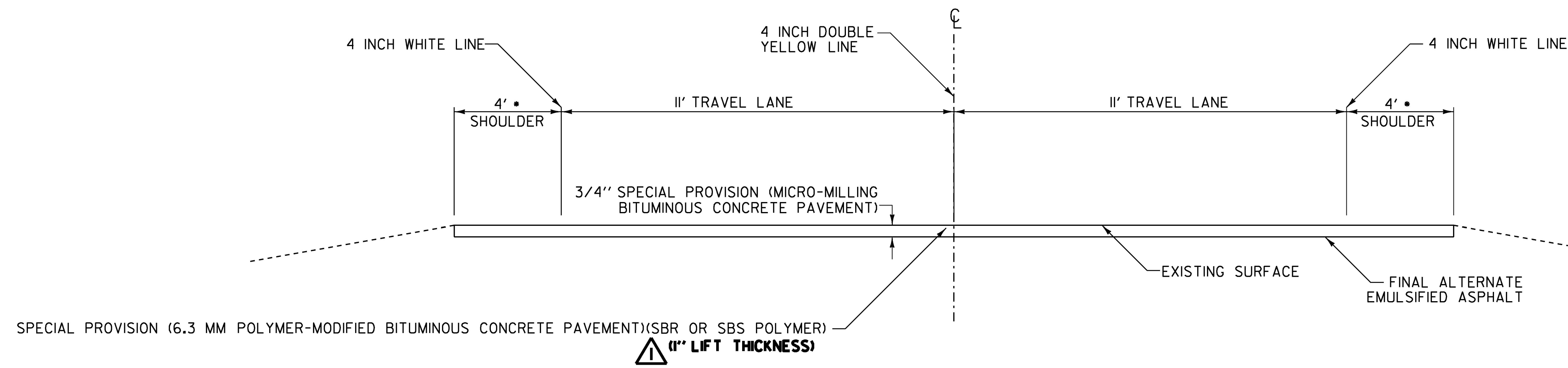
PROJECT NAME: JOHNSON - HYDE PARK, BELVIDERE - BERKSHIRE
PROJECT NUMBER: STP SURF(52), STP SURF(53)
FILE NAME: I4v204\pi4v204.dgn\pi4v204_04.I PLOT DATE: 26-JAN-2016
PROJECT LEADER: M. FOWLER DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE CHECKED BY: M. FOWLER
TYPICAL SECTIONS SHEET 1 SHEET 4 OF 45



**TYPICAL SECTION ALTERNATE A**  
 VT ROUTE 100C MM 0.025 (JOHNSON) - MM 0.928 (JOHNSON)  
 VT ROUTE 100C MM 0.044 (HYDE PARK) - MM 0.087 (HYDE PARK)  
 VT ROUTE 118 MM 5.565 (MONTGOMERY) - MM 1.565 (BERKSHIRE)

**NOTE:**  
 1. SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C) (3/4" LIFT THICKNESS) PAVEMENT TOLERANCE = +/- 1/8 INCH (TOTAL THICKNESS).  
 • 4' SHOULDER WIDTH WILL BE APPLICABLE IN MOST AREAS. IN AREAS WHERE THE SHOULDER IS LESS THAN OR EXCEEDS 4' IN WIDTH THE CONTRACTOR SHALL FOLLOW THE EXISTING SHOULDER WIDTH.

REVISION	DATE	DESCRIPTION	BY
1	01-26-16	LIFT THICKNESS CHANGED FROM 5/8" - 3/4" TO 3/4". ADDED THICKNESS TOLERANCE NOTE.	KML



**TYPICAL SECTION ALTERNATES B & C**  
 VT ROUTE 100C MM 0.025 (JOHNSON) - MM 0.928 (JOHNSON)  
 VT ROUTE 100C MM 0.044 (HYDE PARK) - MM 0.087 (HYDE PARK)  
 VT ROUTE 118 MM 5.565 (MONTGOMERY) - MM 1.565 (BERKSHIRE)

**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 MICRO-MILLED SURFACES AT A RATE OF 0.080 GAL/SY (+/- 0.01GAL/SY) OR AS DIRECTED BY THE ENGINEER.  
 2. SPECIAL PROVISION (6.3 MM POLYMER - MODIFIED BITUMINOUS CONCRETE PAVEMENT) (SBR OR SBS POLYMER) (1" LIFT THICKNESS) PAVEMENT TOLERANCE = +/- 1/8 INCH (TOTAL THICKNESS).

REVISION	DATE	DESCRIPTION	BY
1	01-27-16	LIFT THICKNESS CHANGED FROM 3/4" - 1" TO 1". ADDED THICKNESS TOLERANCE NOTE.	KML

**NOT TO SCALE**

PROJECT NAME: JOHNSON - HYDE PARK, BELVIDERE - BERKSHIRE
PROJECT NUMBER: STP SURF(52), STP SURF(53)
FILE NAME: I4v204\p14v204.dgn\p14v204_05.I PLOT DATE: 26-JAN-2016
PROJECT LEADER: M. FOWLER DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE CHECKED BY: M. FOWLER
TYPICAL SECTIONS SHEET 2 SHEET 5 OF 45

NOTES:

1. ALL NECESSARY SURFACE PREPARATION INVOLVING PATCHING, POTHOLE REPAIR, AND CRACK SEALING SHALL BE PERFORMED PRIOR TO APPLICATION OF ANY SPOT LEVELING OR PLACEMENT OF THE WEARING COURSE. ALL CRACKS GREATER THAN 0.10 INCH AND UP TO 1.0 INCH IN WIDTH SHALL BE SEALED USING THE "BLOW AND GO" FLUSH FILL METHOD. ALL COSTS ASSOCIATED WITH THIS WORK WILL BE PAID FOR UNDER ITEM 417.20, BITUMINOUS CRACK SEALING, "BLOW AND GO" METHOD. THE PATCHING OF ALL CRACKS GREATER THAN 1.0 INCH AND ALL OTHER PATCHING AND POTHOLE REPAIR SHALL BE COMPLETED USING BITUMINOUS CONCRETE PAVEMENT IN ACCORDANCE WITH ITEM 900.680 SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE 1). AN ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN INCLUDED.

2. ALL EXISTING PAVEMENT MARKINGS SHALL BE REMOVED PRIOR TO ANY CRACK SEALING BEING PERFORMED AND PRIOR TO APPLYING THE THIN BITUMINOUS SURFACE TREATMENT. ALL LANE DELINEATION IS TO BE MAINTAINED DURING CONSTRUCTION BY THE USE OF LINE STRIPING TARGETS OR TEMPORARY PAINT.

3. A 1:50 MICRO-MILLED TRANSITION SHALL BE CONSTRUCTED AT LOCATIONS SPECIFIED IN THE PLANS, AS DIRECTED BY THE ENGINEER. ANY SAWCUTTING AT BUTT JOINTS WILL BE CONSIDERED INCIDENTAL TO ITEM 900.675, SPECIAL PROVISION (MICRO-MILLING BITUMINOUS PAVEMENT). THE CONTRACTOR SHALL USE CAUTION WHEN MICRO-MILLING AND PAVING OPERATIONS OCCUR ADJACENT TO EXISTING DROP INLETS OR CATCH BASINS. ANY DAMAGE WHICH OCCURS TO THESE DRAINAGE STRUCTURES AS A RESULT OF THESE OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE STATE OF VERMONT.

4. BRIDGES WITHIN THIS PROJECT ARE:

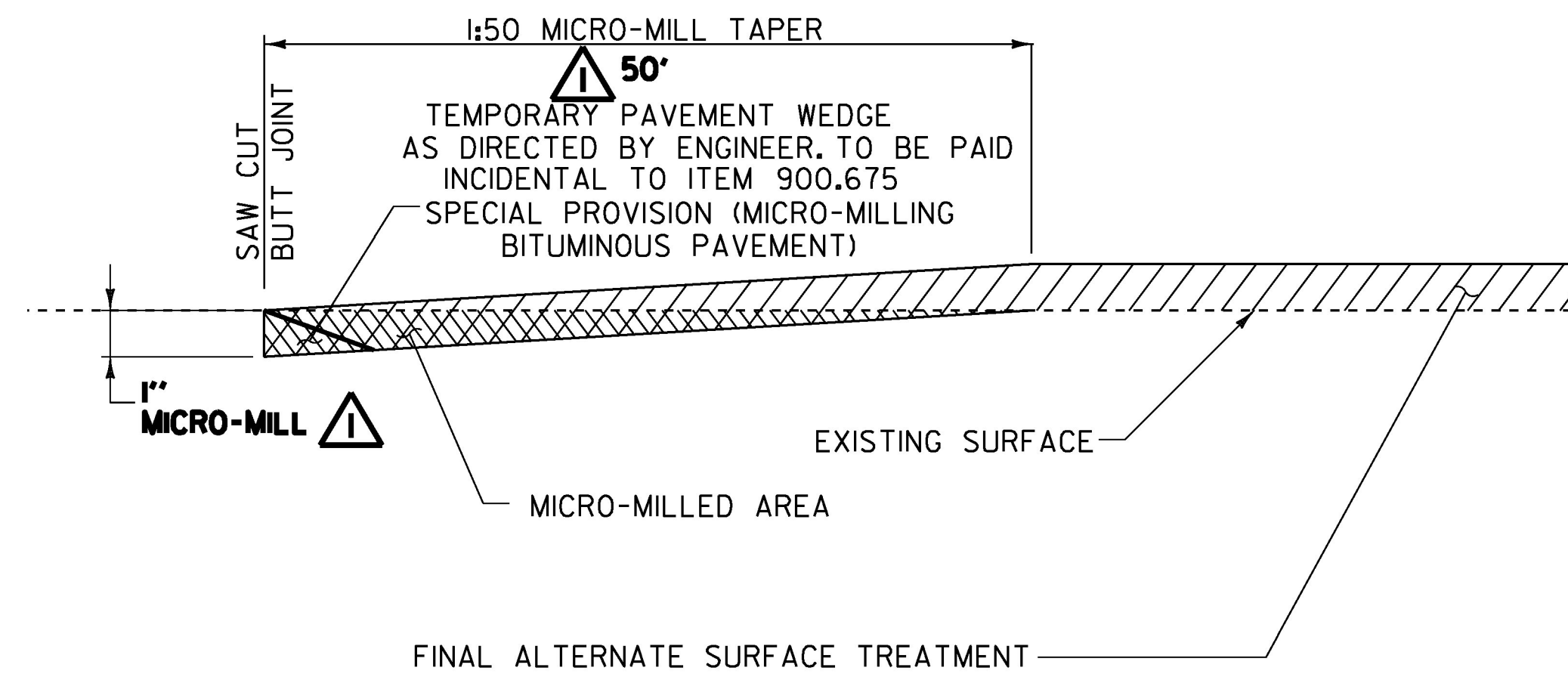
- VT ROUTE 100C BRIDGE NUMBER 1, MM 0.972 (JOHNSON) CONCRETE T BEAM (BRIDGE TO BE REPLACED BY OTHERS WITH PROJECT JOHNSON BF 0248(4), NO MICRO-MILLING OR PAVING NECESSARY).
- BRIDGE NUMBER 2, MM 1.000 (JOHNSON) CONCRETE T BEAM (BRIDGE TO BE REPLACED BY OTHERS WITH PROJECT JOHNSON BF 0248(4), NO MICRO-MILLING OR PAVING NECESSARY).
- BRIDGE NUMBER 3, MM 3.313 (JOHNSON) 5' X 5' CONCRETE BOX (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 4, MM 3.786 (JOHNSON) 72" CMP (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 5, MM 4.153 (JOHNSON) 180" CGMPP (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 6, MM 0.054 (HYDE PARK) SINGLE SPAN PLATE GIRDER (MICRO-MILL ONE INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- VT ROUTE 118 BRIDGE NUMBER 4A, MM 1.523 (BELVIDERE) 48" ACCGMP (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 5, MM 1.990 (BELVIDERE) 72" RCP (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 6, MM 2.888 (BELVIDERE) 60" RCP (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 7, MM 0.290 (MONTGOMERY) CGMPP ARCH (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 8, MM 1.641 (MONTGOMERY) 72" ACCGMP (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 9, MM 1.883 (MONTGOMERY) 72" ACCGMP (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 10, MM 1.986 (MONTGOMERY) 48" ACCGMP (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 11, MM 2.260 (MONTGOMERY) COMP. WIDE FLANGE BEAM (BRIDGE HAS BARE CONCRETE DECK, NO MICRO-MILLING OR PAVING NECESSARY).
- BRIDGE NUMBER 11A, MM 2.862 (MONTGOMERY) 4' X 6' CONCRETE BOX (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 12, MM 2.974 (MONTGOMERY) CONCRETE SLAB (MICRO-MILL ONE INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 12A, MM 4.168 (MONTGOMERY) 60" RCP (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 13, MM 4.432 (MONTGOMERY) 48" RCP (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 14, MM 4.882 (MONTGOMERY) CG MULTIPLATE PIPE (OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 15, MM 5.612 (MONTGOMERY) REINFORCED COMP. ROLLED BEAM (MICRO-MILL ONE INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 16, MM 6.981 (MONTGOMERY) CCM PLATE PIPE ARCH (MICRO-MILL 3/4 INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 17, MM 7.387 (MONTGOMERY) 72" CGMPAC (MICRO-MILL 3/4 INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 18, MM 8.208 (MONTGOMERY) 72" CGMPAC (MICRO-MILL 3/4 INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 19, MM 8.355 (MONTGOMERY) CONC. WIDE FLANGE BEAM (MICRO-MILL ONE INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 20, MM 8.525 (MONTGOMERY) CONC. WIDE FLANGE BEAM (MICRO-MILL ONE INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 21, MM 8.691 (MONTGOMERY) CONC. WIDE FLANGE BEAM (MICRO-MILL ONE INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 22, MM 9.171 (MONTGOMERY) 48" RCP (MICRO-MILL 3/4 INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 23, MM 10.148 (MONTGOMERY) CONCRETE SLAB (MICRO-MILL ONE INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 24, MM 0.621 (ENOSBURG) CONCRETE SLAB (MICRO-MILL 1 INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 25, MM 0.335 (BERKSHIRE) 5.8' X 6.5' CONCRETE BOX (MICRO-MILL 3/4 INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 26, MM 0.639 (BERKSHIRE) I-BEAM (MICRO-MILL ONE INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 28, MM 0.739 (BERKSHIRE) 3 EACH ACCGMPA (MICRO-MILL 3/4 INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 29, MM 0.791 (BERKSHIRE) 10' X 6' CONCRETE BOX (MICRO-MILL 3/4 INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).
- BRIDGE NUMBER 30, MM 1.507 (BERKSHIRE) CONC. WIDE FLANGE BEAM (MICRO-MILL ONE INCH THEN OVERLAY WITH FINAL ALTERNATE SURFACE TREATMENT).



5. ALL TOWN HIGHWAY APPROACHES MAY BE PAVED WITH ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT, TYPE IV, 406.27 MEDIUM DUTY BITUMINOUS CONCRETE PAVEMENT, TYPE IV, OR 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IVS AT THE DISCRETION OF THE ENGINEER. THIS MATERIAL SHALL BE FROM AN APPROVED SOURCE WITH EITHER A PREVIOUSLY APPROVED MIX DESIGN OR A MIX DESIGN APPROVAL OBTAINED FOR THE INTENDED PRODUCT. THE SUBSTITUTION OF ITEMS 406.25, 406.27 OR 490.30 SHALL BE PAID AT THE CONTRACT UNIT PRICE OF THE LOW BID PAVEMENT ALTERNATE.

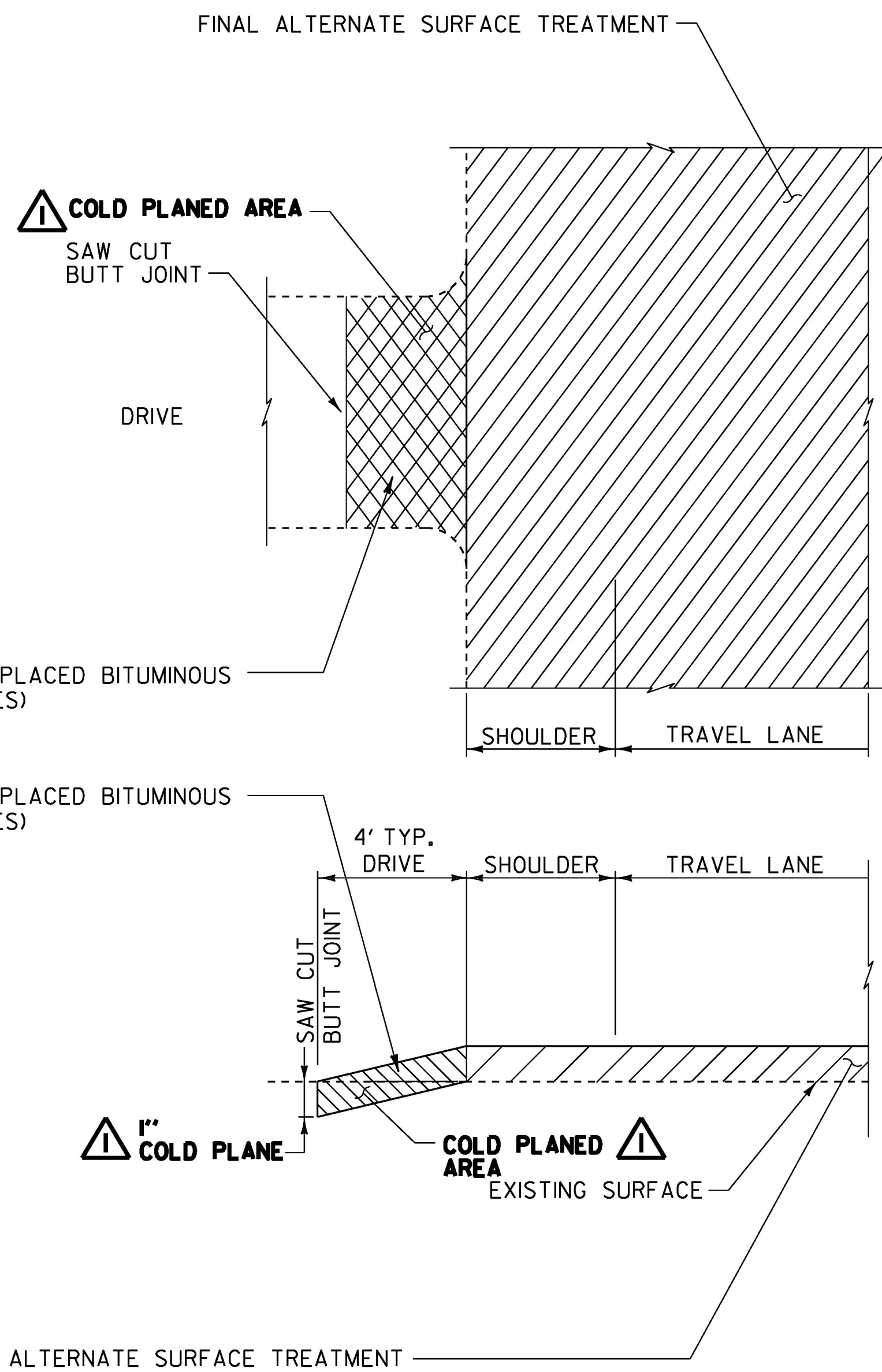
REVISION	DATE	DESCRIPTION	BY
	01-27-16	ADDED NOTE 5	KML

PROJECT NAME:	JOHNSON - HYDE PARK, BELVIDERE - BERKSHIRE
PROJECT NUMBER:	STP SURF(52), STP SURF(53)
FILE NAME:	I4v204\pi4v204.dgn\pi4v204_06.1 PLOT DATE: 26-JAN-2016
PROJECT LEADER:	M. FOWLER
DESIGNED BY:	K. LOCKE
CHECKED BY:	M. FOWLER
NOTES COMMON TO BOTH ALTERNATES	SHEET 6 OF 45



**MICRO-MILL DETAIL AT BEGIN/END APPROACH**

VT I18 BELVIDERE MM 0.560  
VT I18 MONTGOMERY MM 5.565 (MIRROR IMAGE)

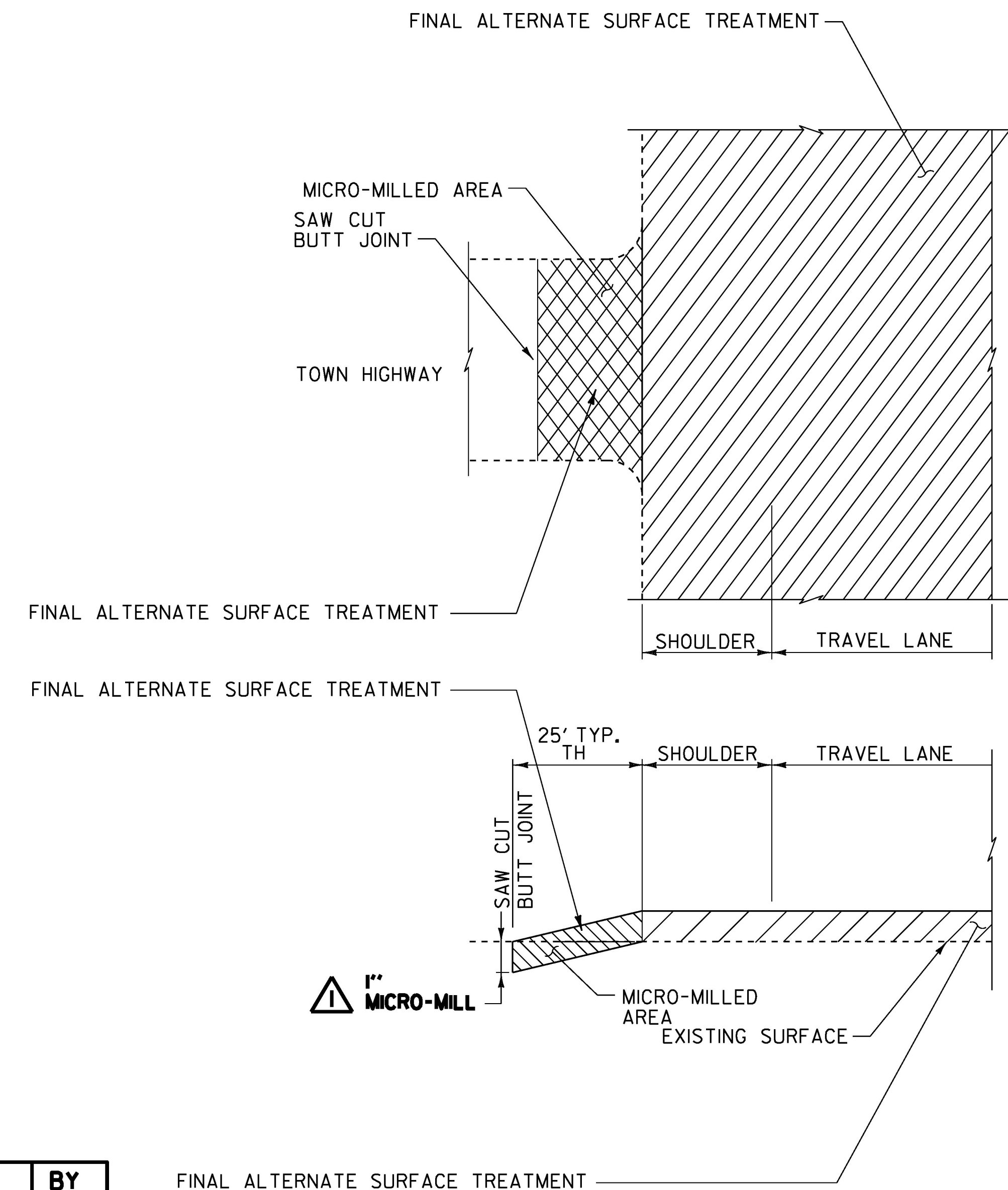


SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)

SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)

**COLD PLANE DETAILS AT DRIVES**

- NOTES:**
1. COLD PLANING FOR DRIVES SHALL MEET THE REQUIREMENTS OF SECTION 210 AS APPLICABLE.
  2. PAYMENT FOR COLD PLANED AREA REQUIRED FOR DRIVES SHALL BE CONSIDERED INCIDENTAL TO SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES).

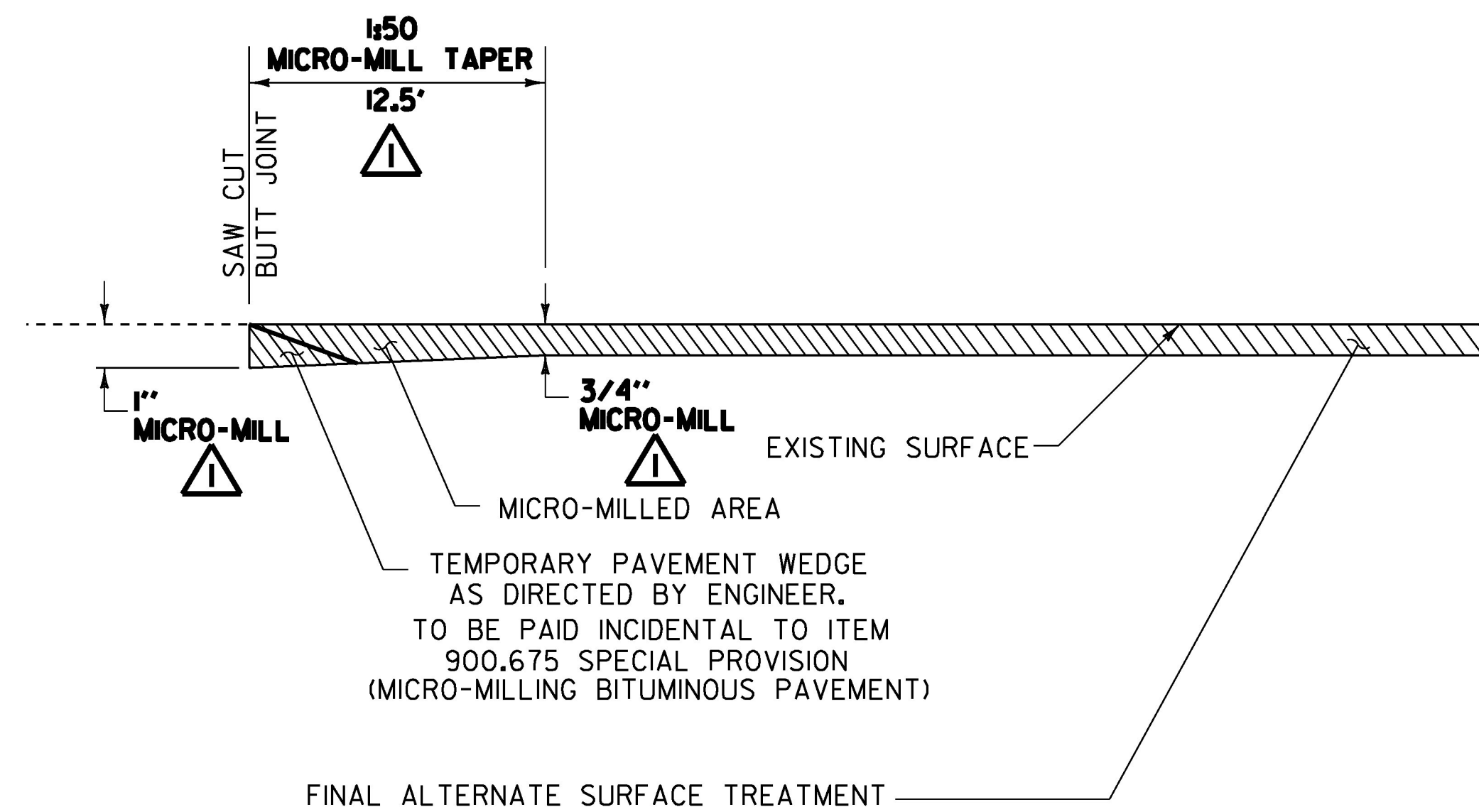


**MICRO-MILL DETAILS AT TOWN HIGHWAYS**

REVISION	DATE	DESCRIPTION	BY
1	01-27-16	CHANGED MICRO-MILL DEPTH TO 1" FROM 3/4". CHANGED MICRO-MILL DETAILS AT DRIVES TO COLD PLANE DETAILS AT DRIVES AND ADDED ASSOCIATED NOTES.	KML

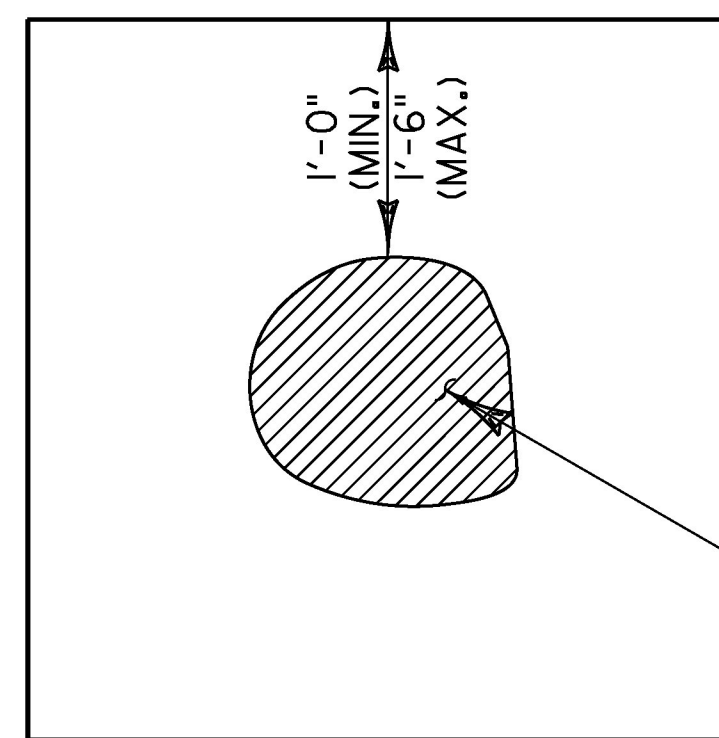
NOT TO SCALE

PROJECT NAME: JOHNSON - HYDE PARK, BELVIDERE - BERKSHIRE  
PROJECT NUMBER: STP SURF(52), STP SURF(53)  
FILE NAME: I4v204\pi4v204.dgn\pi4v204_07.1 PLOT DATE: 26-JAN-2016  
PROJECT LEADER: M. FOWLER DRAWN BY: K. LOCKE  
DESIGNED BY: K. LOCKE CHECKED BY: M. FOWLER  
MICRO-MILL DETAILS SHEET 1 SHEET 7 OF 45



**MICRO-MILL DETAIL AT BEGIN/END APPROACH**

VT 100C JOHNSON MM 0.025  
 VT 100C JOHNSON MM 0.928 (MIRROR IMAGE)  
 VT 118 BERKSHIRE MM 1.565 (MIRROR IMAGE)



SAW CUT BITUMINOUS CONCRETE PAVEMENT

1.) EMULSIFIED ASPHALT SHALL BE APPLIED AT ALL PATCH INTERFACES AT A RATE OF 0.25 - 0.50 GAL/SY. EMULSIFIED ASPHALT SHALL MEET THE REQUIREMENTS OF SECTION 404 AND WILL BE CONSIDERED INCIDENTAL TO ITEM 900.680 SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE I)

2.) ALL WORK ASSOCIATED WITH POT HOLE REPAIR WILL BE PAID UNDER ITEM 900.680 SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE I).

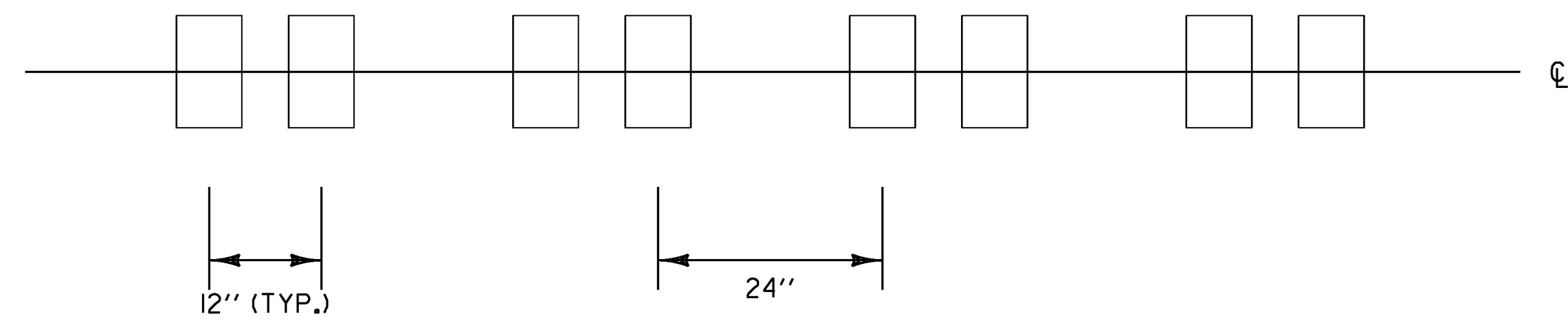
EXISTING POT HOLE 3/4" MIN. DEPTH OR AS DIRECTED BY THE ENGINEER

**TYPICAL - POT HOLE REPAIR**

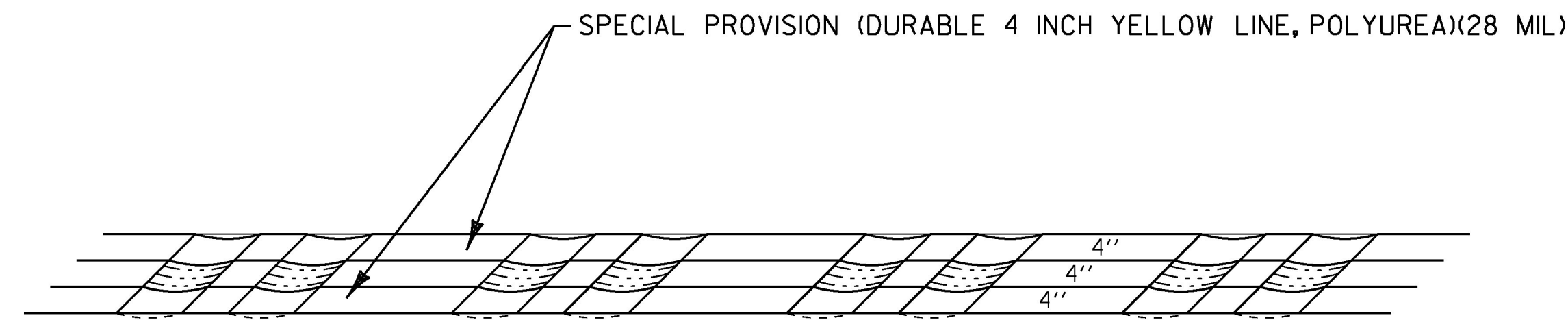
REVISION	DATE	DESCRIPTION	BY
1	01-27-16	REVISED DETAIL TO TRANSITION FROM 1" TO 3/4".	KML

**NOT TO SCALE**

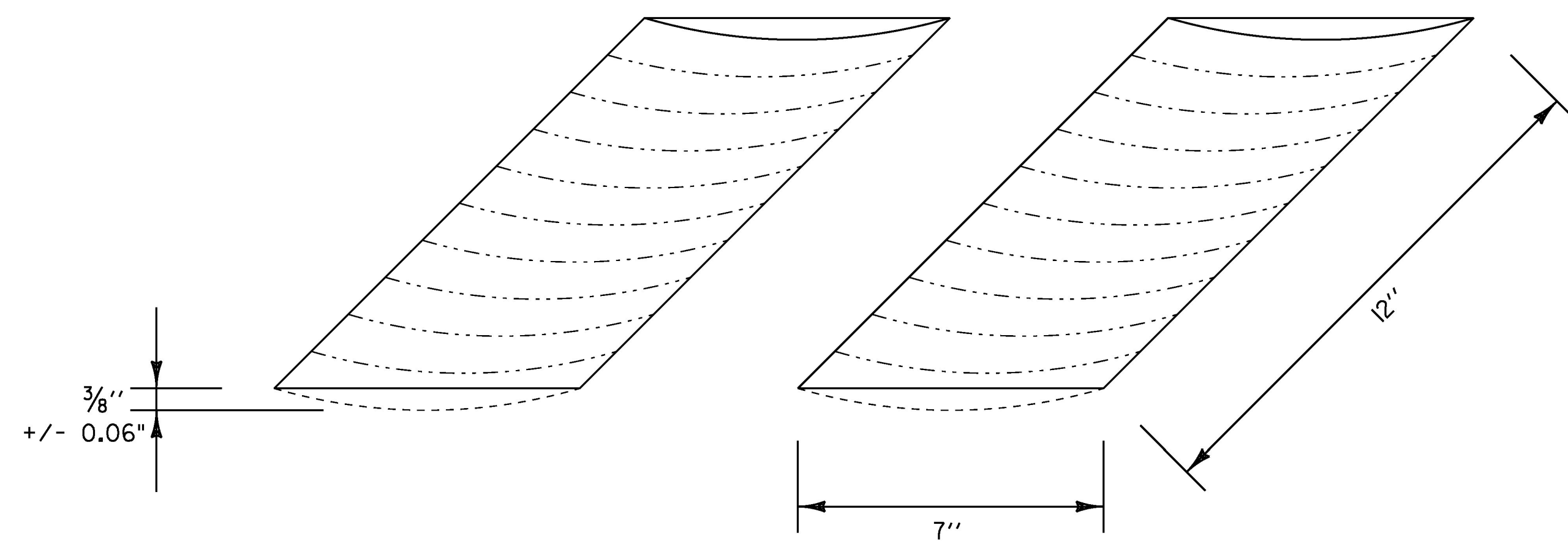
PROJECT NAME:	JOHNSON - HYDE PARK, BELVIDERE - BERKSHIRE
PROJECT NUMBER:	STP SURF(52), STP SURF(53)
FILE NAME:	I4v204\pi4v204.dgn\pi4v204_08.I
PLOT DATE:	26-JAN-2016
PROJECT LEADER:	M. FOWLER
DRAWN BY:	K. LOCKE
DESIGNED BY:	K. LOCKE
CHECKED BY:	M. FOWLER
MICRO-MILL DETAILS SHEET 2	SHEET 8 OF 45



**RUMBLE STRIP LAYOUT**



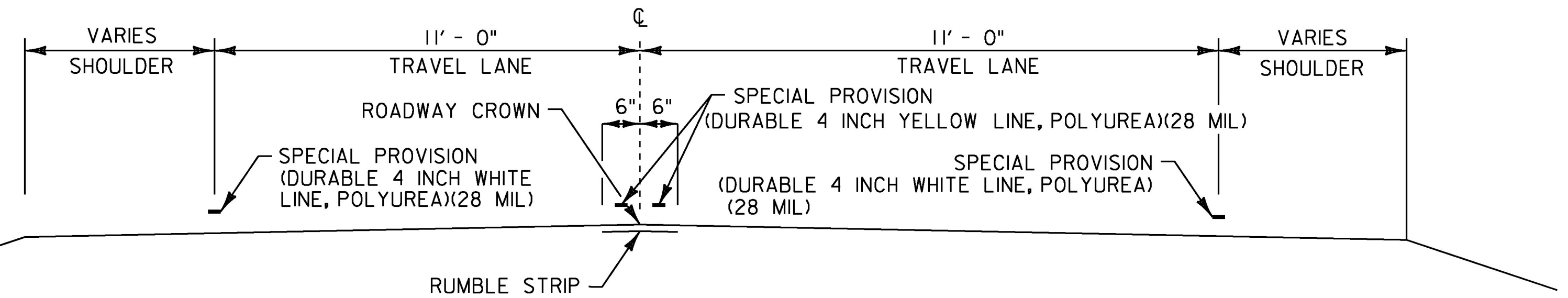
**PAVEMENT MARKINGS DETAIL**



**RUMBLE STRIP DETAIL**

**RUMBLE STRIP NOTES**

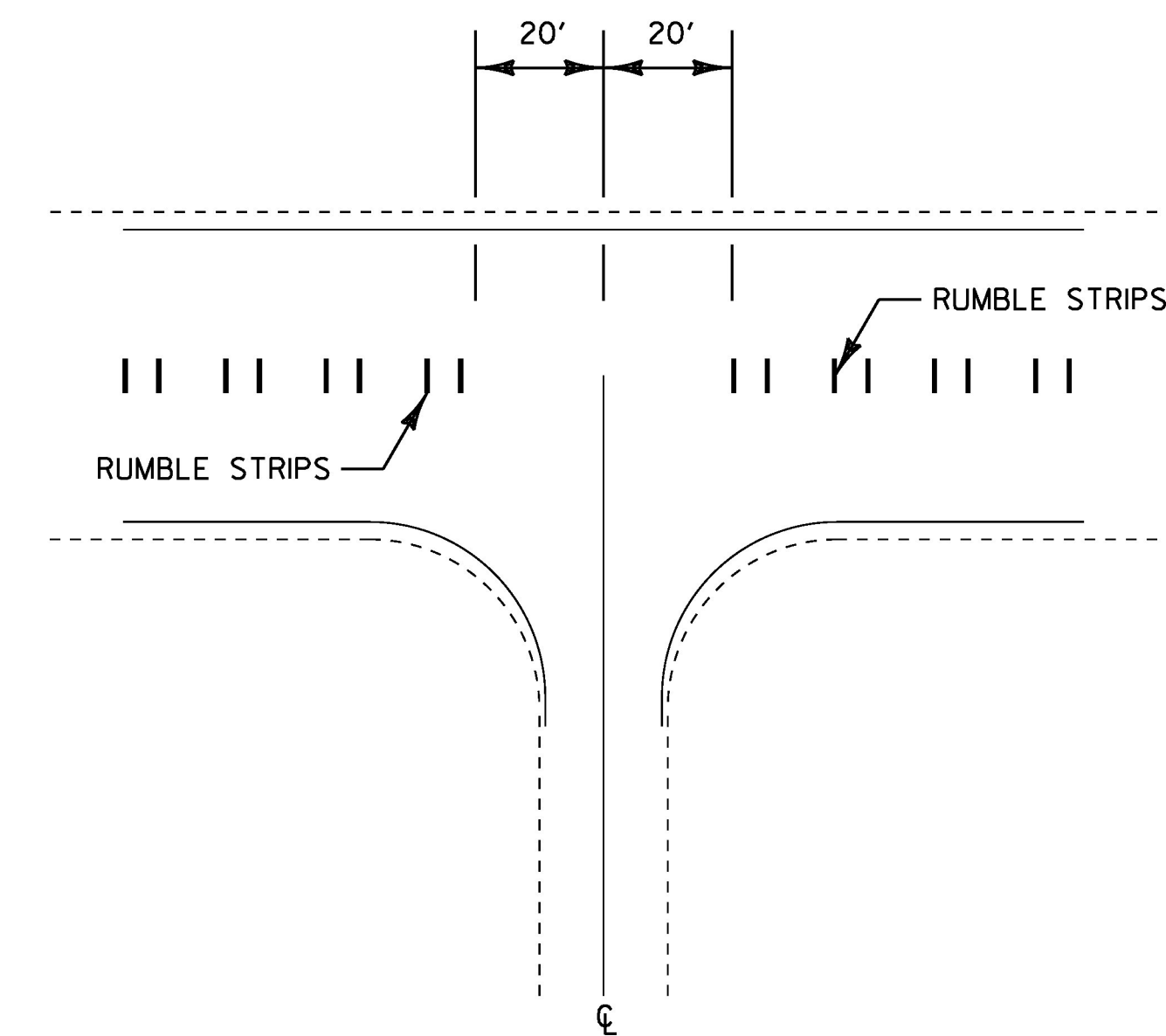
1. CENTERLINE RUMBLE STRIPS SHALL NOT EXTEND BEYOND CENTERLINE WHEN CENTERLINE IS A DOUBLE YELLOW LINE, WITH OR WITHOUT A PASSING ZONE.
2. CENTERLINE RUMBLE STRIPS SHALL BE PLACED ALONG CENTERLINE OF ROADWAY.
3. CENTERLINE RUMBLE STRIPS SHALL STOP 20 FEET PRIOR TO THE CENTERLINE OF AN INTERSECTION.
4.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



**MILLED RUMBLE STRIPS TYPICAL SECTION**

**LOCATION**

JOHNSON VT 100C:	MM 1.508 - MM 1.634
	MM 1.805 - MM 2.028
	MM 2.098 - MM 2.259
	MM 2.461 - MM 2.625
	MM 2.677 - MM 2.861
	MM 3.244 - MM 3.410
	MM 3.456 - MM 3.581
MONTGOMERY VT 118:	MM 8.420 - MM 8.773
	MM 8.819 - MM 9.166
	MM 9.226 - MM 9.441
	MM 9.636 - MM 10.147
	MM 10.207 - MM 10.464
ENOSBURG VT 118:	MM 0.000 - MM 0.158
	MM 0.266 - MM 0.532
	MM 0.582 - MM 0.750
BERKSHIRE VT 118:	MM 0.000 - MM 0.026
	MM 0.281 - MM 0.385
	MM 0.434 - MM 0.829



**INTERSECTION DETAIL**

NOT TO SCALE

PROJECT NAME: JOHNSON - HYDE PARK, BELVIDERE - BERKSHIRE	
PROJECT NUMBER: STP SURF(52), STP SURF(53)	
FILE NAME: 4v204\pi4v204.dgn\pi4v204.08A.i	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
CENTERLINE RUMBLE STRIP DETAIL SHEET	SHEET 8A OF 45

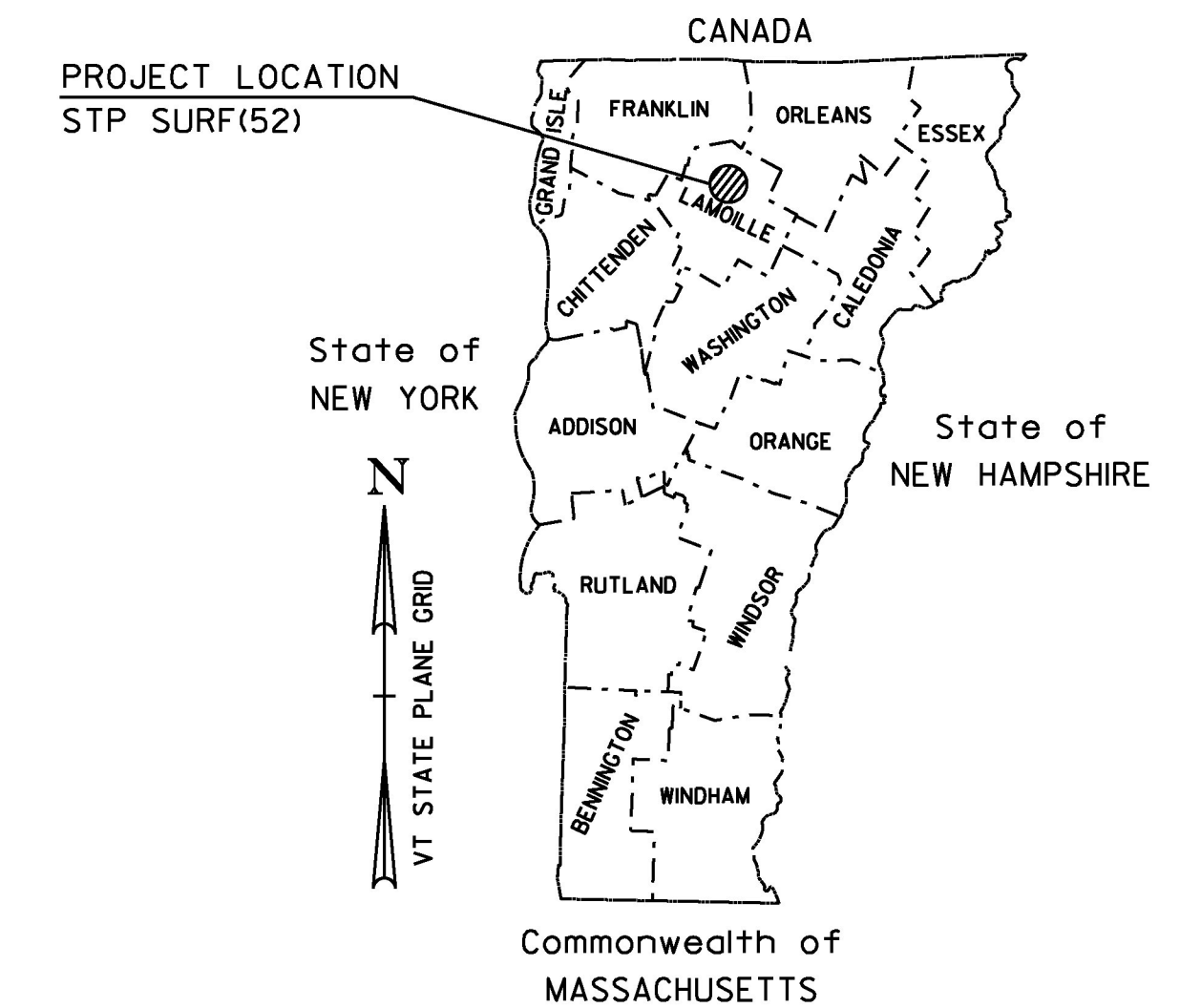




# STATE OF VERMONT AGENCY OF TRANSPORTATION



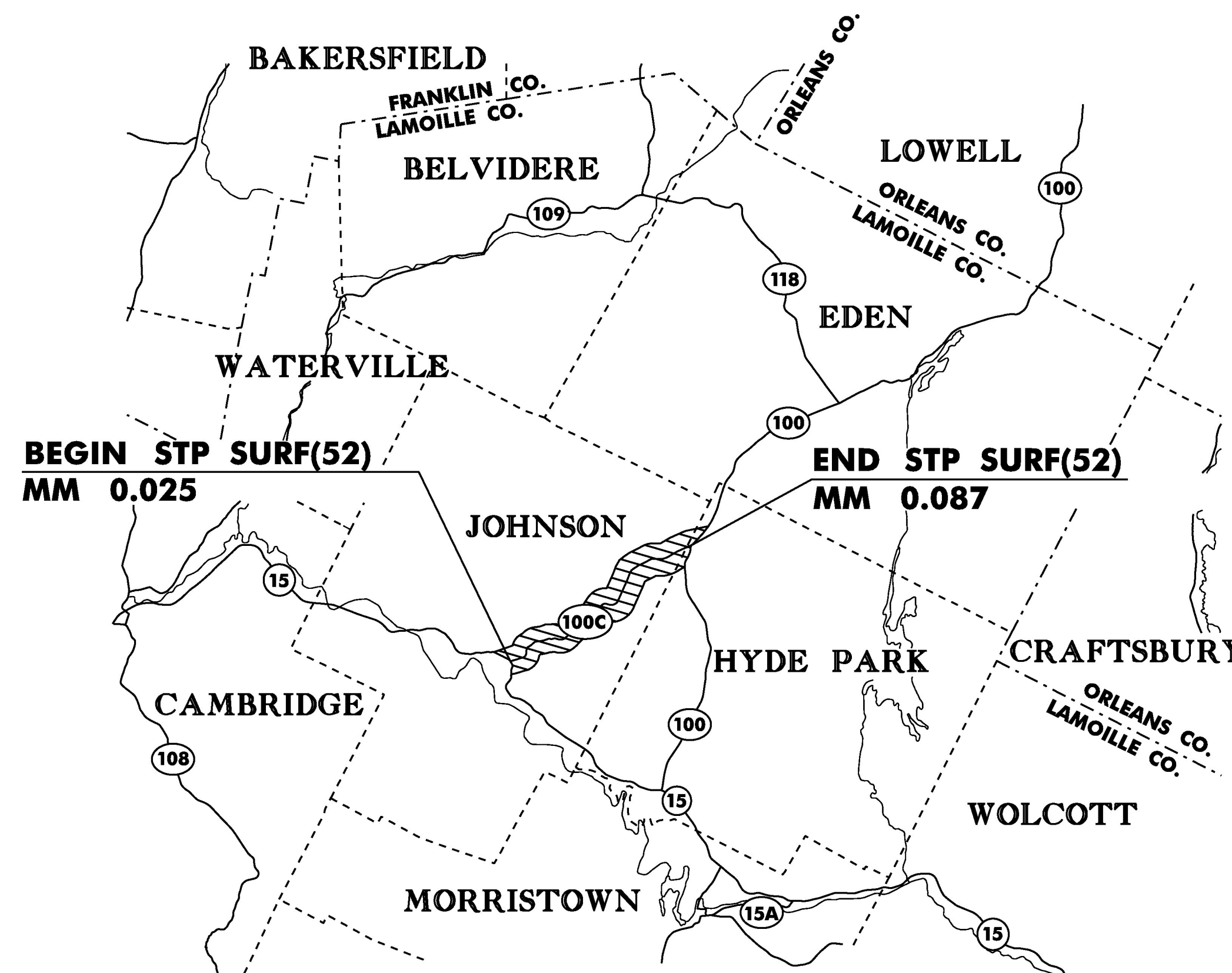
## PROPOSED IMPROVEMENT TOWNS OF JOHNSON & HYDE PARK COUNTY OF LAMOILLE VT ROUTE 100C (MAJOR COLLECTOR)



BEGINNING IN THE TOWN OF JOHNSON AT THE VT 15/VT 100C JCT AT MILE MARKER 0.025 AND EXTENDING NORTHERLY ALONG VT ROUTE 100C FOR A DISTANCE OF 24,132.60 FT (4.571MILES) TO MILE MARKER 0.087 (VT 100C/VT 100 JCT) IN THE TOWN OF HYDE PARK.

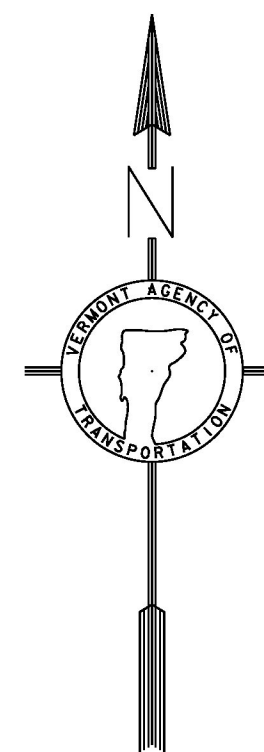
LENGTH OF ROADWAY = 24,132.60 FT = (4.571MILES)  
LENGTH OF PROJECT = 24,132.60 FT = (4.571MILES)

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



TRAFFIC DATA

VT 100C	2015 AADT	2025 AADT	2015 DHV	2025 DHV	FLEXIBLE ESALS (2015-2025)	FLEXIBLE ESALS (2015-2035)
BEGIN PROJECT TO END PROJECT	2,800	2,900	320	330	1,017,000	2,489,000



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

QUALITY ASSURANCE PROGRAM : LEVEL 3
SURVEYED BY : N/A SURVEYED DATE : N/A
DATUM VERTICAL N/A HORIZONTAL N/A

PROJECT MANAGER : MICHAEL J. FOWLER, P. E.
PROJECT NAME : JOHNSON - HYDE PARK PROJECT NUMBER : STP SURF (52)
SHEET 11 OF 45 SHEETS

NOT TO SCALE



# QUANTITY SHEET 2

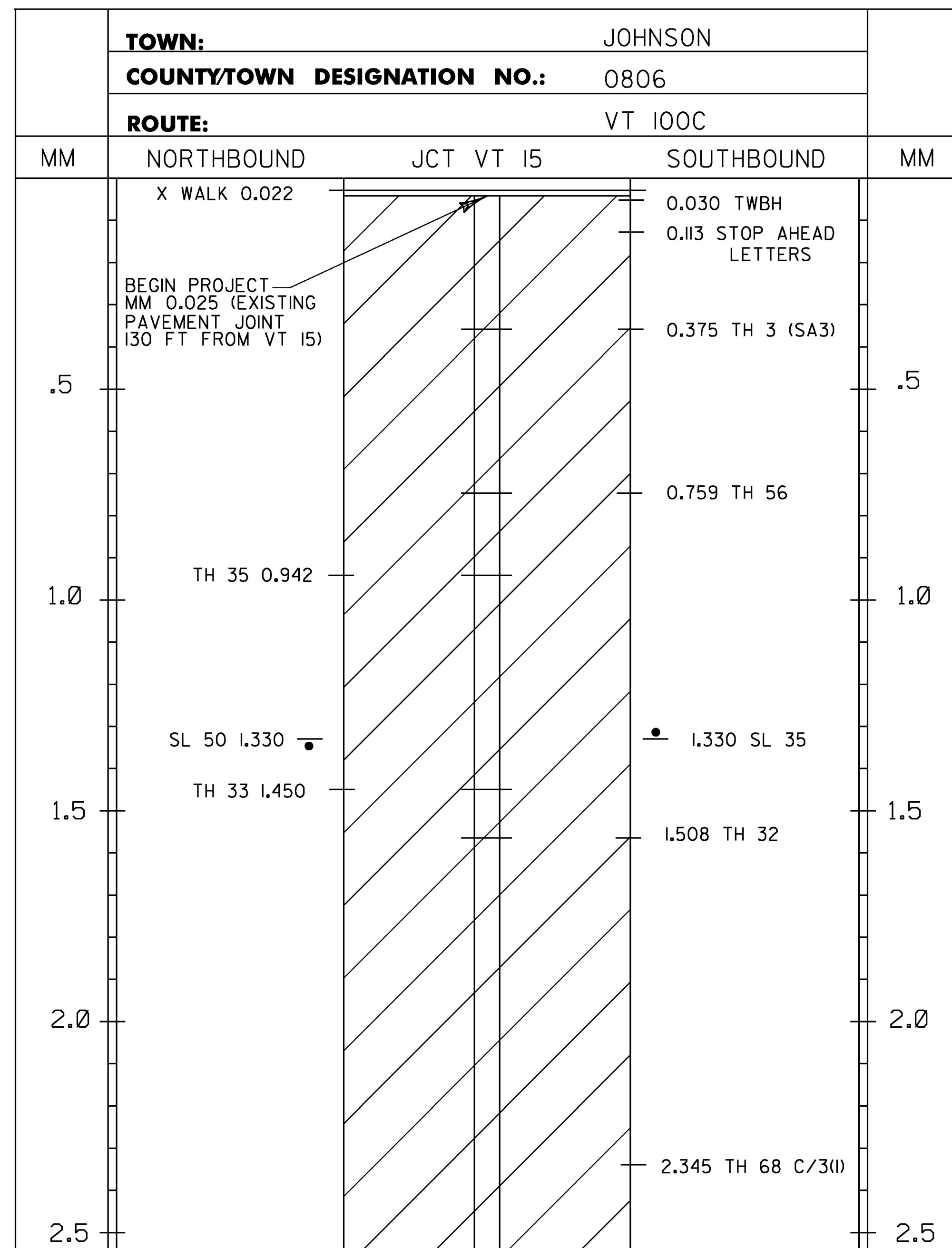
**STATE OF VERMONT  
AGENCY OF TRANSPORTATION**

SUMMARY OF ESTIMATED QUANTITIES								
ROADWAY ALT. A	ROADWAY ALT. B	ROADWAY ALT. C	ROADWAY	FULL C.E.	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO. ROUNDED
			9,650		9,650	EA	LINE STRIPING TARGETS	646.76
			38,690		38,690	SF	REMOVAL OF EXISTING PAVEMENT MARKINGS	646.85
			I		I	LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50
			48,500		48,500	LF	SPECIAL PROVISION (DURABLE 4 INCH WHITE LINE, POLYUREA) (28 MIL)	900.640
			46,000		46,000	LF	SPECIAL PROVISION (DURABLE 4 INCH YELLOW LINE, POLYUREA) (28 MIL)	900.640
			17,750		17,750	SY	SPECIAL PROVISION (MICRO-MILLING BITUMINOUS CONCRETE PAVEMENT)	900.675
			1,250		1,250	SY	SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)	900.675
			50		50	TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE I)	900.680
			20		20	CWT	SPECIAL PROVISION (FOG SEAL SURFACE TREATMENT)	900.683
							END ITEMS COMMON TO ALL ALTERNATES	
							BEGIN ALTERNATE A	
			82,500		82,500	SY	SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C)	900.675
							END ALTERNATE A	
							BEGIN ALTERNATE B	
			600		600	CWT	EMULSIFIED ASPHALT (RS-I)	404.65
			I		I	LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31
			5,000		5,000	TON	SPECIAL PROVISION (6.3 MM POLYMER MODIFIED BITUMINOUS CONCRETE PAVEMENT)(SBR OR SBS POLYMER)	900.680
							END ALTERNATE B	
							BEGIN ALTERNATE C	
			I		I	LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31
			5,000		5,000	TON	SPECIAL PROVISION (6.3 MM POLYMER MODIFIED BITUMINOUS CONCRETE PAVEMENT)(SBR OR SBS POLYMER)	900.680
			600		600	CWT	SPECIAL PROVISION (EMULSIFIED ASPHALT)(RS-IH OR CRS-IH)	900.683
							END ALTERNATE C	

DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS
		SPECIAL PROVISION (MICRO-MILLING BITUMINOUS CONCRETE PAVEMENT)
15,894	SY	MAINLINE
167	SY	BRIDGE 1 & 2 APPROACHES
996	SY	BRIDGE 6 APPROACH TO END OF PROJECT
629	SY	TOWN HIGHWAY APPROACHES
64	SY	ROUNDING
17,750	SY	TOTAL
		ALTERNATE A
		SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C)
81,328	SY	MAINLINE
629	SY	TOWN HIGHWAY APPROACHES
543	SY	ROUNDING
82,500	SY	TOTAL

DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS
		ALTERNATE B
		SPECIAL PROVISION (6.3 MM POLYMER MODIFIED BITUMINOUS CONCRETE PAVEMENT)(SBR OR SBS POLYMER)
4,745	TON	MAINLINE
37	TON	TOWN HIGHWAY APPROACHES
218	TON	ROUNDING
5,000	TON	TOTAL
		ALTERNATE C
		SPECIAL PROVISION (6.3 MM POLYMER MODIFIED BITUMINOUS CONCRETE PAVEMENT)(SBR OR SBS POLYMER)
4,745	TON	MAINLINE
37	TON	TOWN HIGHWAY APPROACHES
218	TON	ROUNDING
5,000	TON	TOTAL

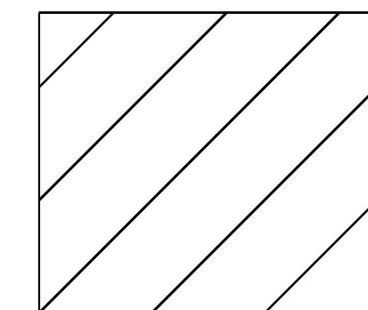
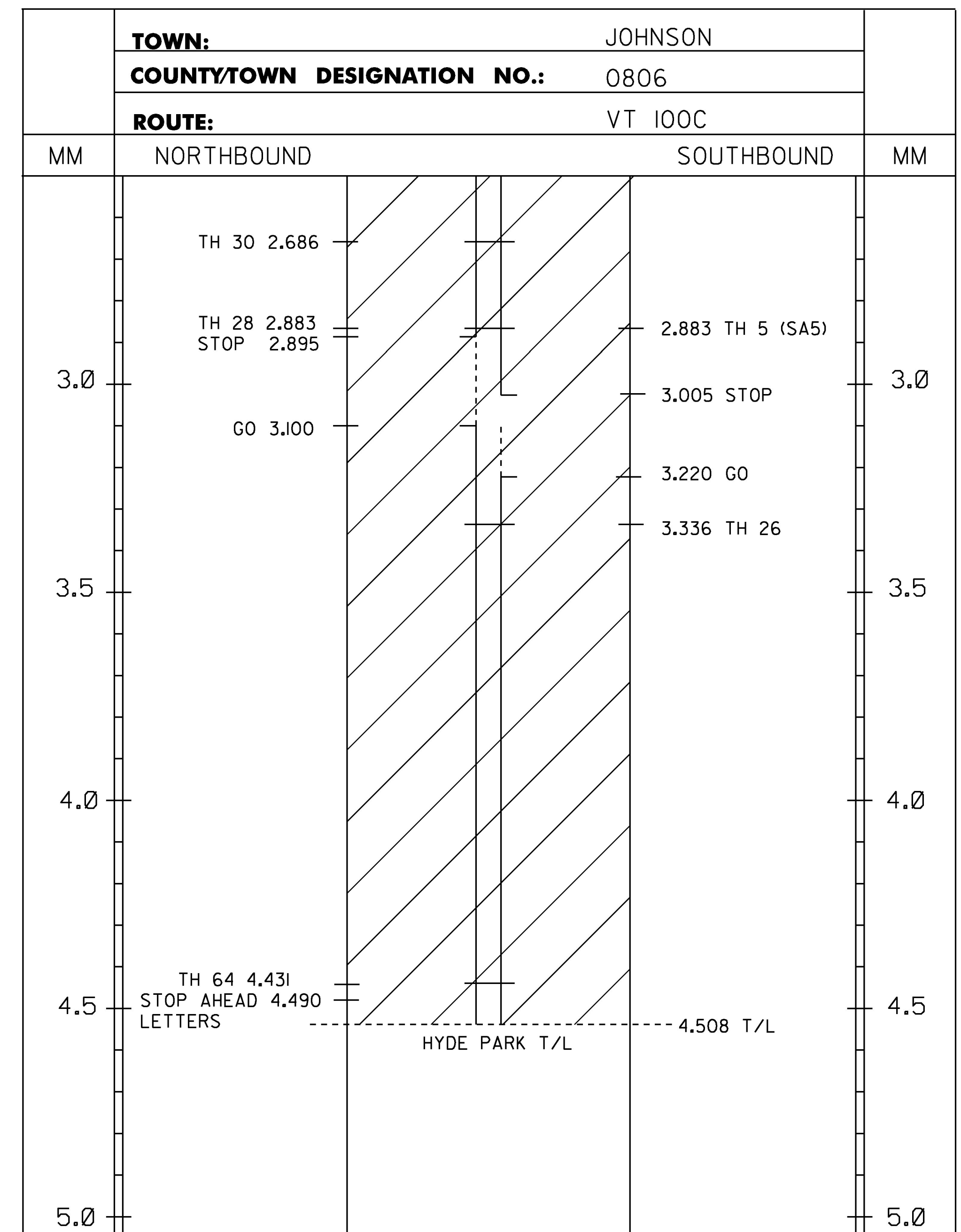
PROJECT NAME: JOHNSON - HYDE PARK  
 PROJECT NUMBER: STP SURF(52)  
 FILE NAME: I4v204\pl4v204.dgn\pl4v204_I3.1 PLOT DATE: 05-NOV-2015  
 PROJECT LEADER: M. FOWLER DRAWN BY: K. LOCKE  
 DESIGNED BY: K. LOCKE CHECKED BY: M. FOWLER  
 QUANTITY SHEET 2 SHEET 13 OF 45



TEMPORARY 4 INCH WHITE LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH WHITE LINE, POLYUREA)(28 MIL)  
MM 0.025 - MM 4.508 LT & RT (EDGE LINES)  
(WITH BREAKS OR RADII AT TOWN HIGHWAYS)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH YELLOW LINE, POLYUREA)(28 MIL)  
MM 0.025 - MM 2.895 SOLID LT & RT  
MM 2.895 - MM 3.005 SOLID LT, DASHED RT  
MM 3.005 - MM 3.100 DASHED CL  
MM 3.100 - MM 3.220 DASHED LT, SOLID RT  
MM 3.220 - MM 4.508 SOLID LT & RT  
(WITH CL BREAKS AT TOWN HIGHWAYS)

TEMPORARY LETTER OR SYMBOL, PAINT  
DURABLE LETTER OR SYMBOL, OPTION ITEM  
MM 0.113 LT - "STOP AHEAD" (9 EACH)  
MM 4.490 RT - "STOP AHEAD" (9 EACH)  
FOR ADDITIONAL LETTERS & SYMBOLS LOCATIONS SEE  
TOWN/STATE HIGHWAY INVENTORY FOR PAVING AND MARKING  
TABLE ON SHEET 15.



PROJECT AREA

**LEGEND**

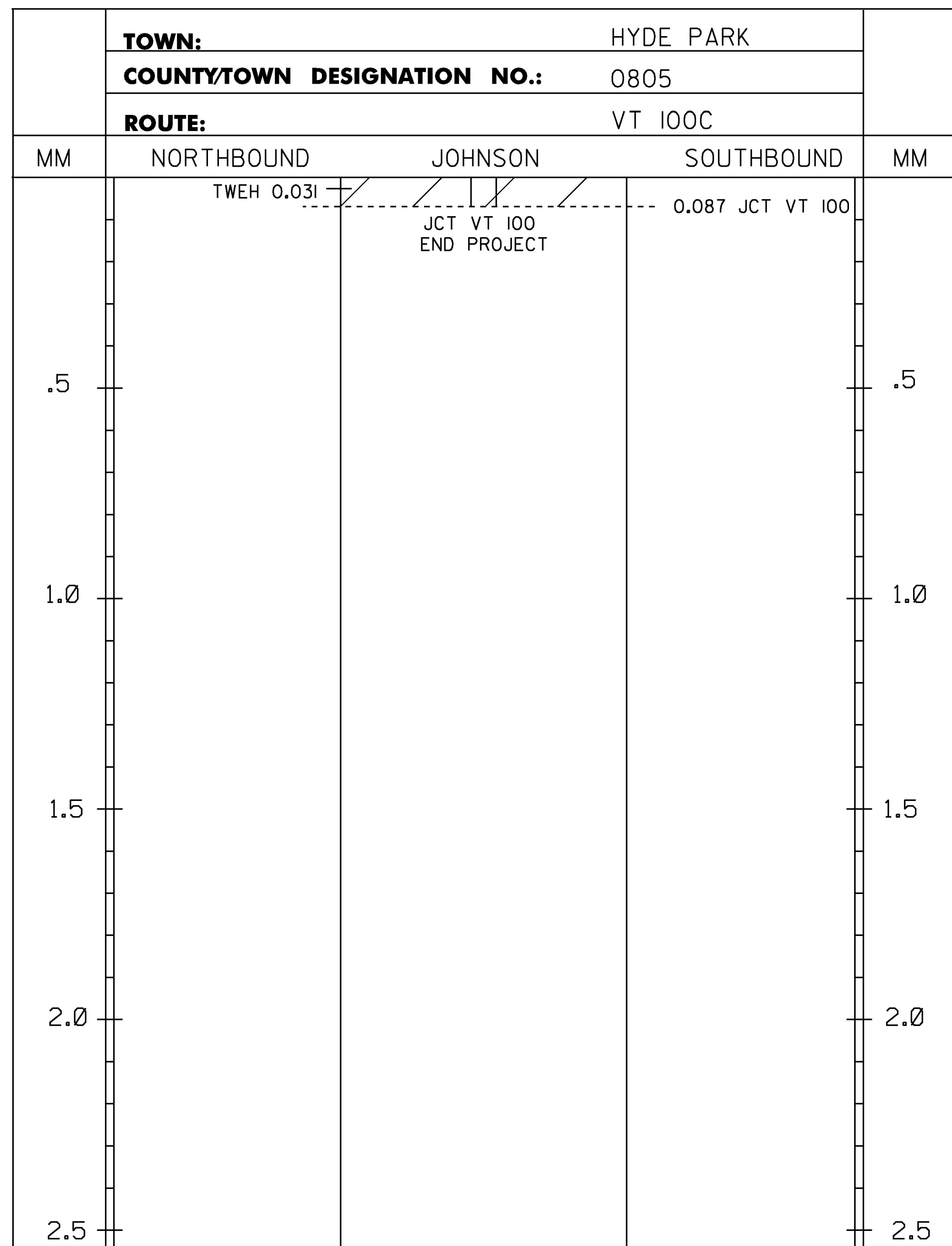
- TWBH-THROUGHWAY BEGINS HERE
- TWEH-THROUGHWAY ENDS HERE
- SHB-STATE HIGHWAY BEGINS
- SHE-STATE HIGHWAY ENDS
- SL-SPEED LIMIT
- SA - STATE AID TOWN HIGHWAY
- T/L-TOWN LINE
- C/3 - CLASS 3 TOWN HIGHWAY
- C/4 - CLASS 4 TOWN HIGHWAY

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

**NOT TO SCALE**

PROJECT NAME: JOHNSON - HYDE PARK  
PROJECT NUMBER: STP SURF(52)

FILE NAME: I4v204\pi4v204.dgn\pi4v204_14.1 PLOT DATE: 04-NOV-2015  
PROJECT LEADER: M. FOWLER DRAWN BY: K. LOCKE  
DESIGNED BY: K. LOCKE CHECKED BY: M. FOWLER  
CENTERLINE MARKING LAYOUT SHEET 1 SHEET 14 OF 45



TEMPORARY 4 INCH WHITE LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH WHITE LINE, POLYUREA)(28 MIL)  
MM 0.000 - MM 0.087 LT & RT (EDGE LINES)  
(WITH BREAKS OR RADIAT TOWN HIGHWAYS)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH YELLOW LINE, POLYUREA)(28 MIL)  
MM 0.000 - MM 0.087 SOLID LT & RT  
(WITH CL BREAKS AT TOWN HIGHWAYS)

TEMPORARY LETTER OR SYMBOL, PAINT  
DURABLE LETTER OR SYMBOL, OPTION ITEM  
MM 0.074 RT - "STOP" (4 EACH)  
MM 0.074 RT - "STOP" (4 EACH)

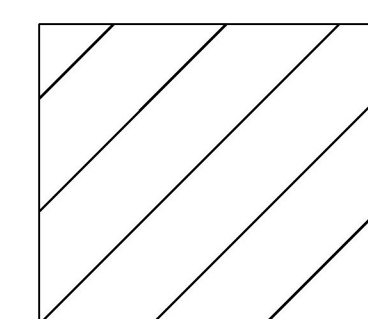
FOR ADDITIONAL LETTERS & SYMBOLS LOCATIONS SEE  
TOWN/STATE HIGHWAY INVENTORY FOR PAVING AND MARKING  
TABLE BELOW.

TEMPORARY 24 INCH STOP BAR, PAINT  
DURABLE 24 INCH STOP BAR, OPTION ITEM  
MM 0.076 RT

DELETED MARKINGS

### TOWN/STATE HIGHWAY INVENTORY FOR PAVING & MARKING

TOWN/STATE HIGHWAY NAME	LOCATION MM	MAINLINE CENTERLINE BREAK	MAINLINE EDGE LINE BREAK	TH CENTERLINE	TH EDGE LINE	TH STOP BAR	TH STOP LETTERS
JOHNSON							
TH 3 SCHOOL RD	0.375 LT	YES	YES	YES	YES	YES	YES
TH 56 GILLEN AVE	0.759 LT	YES	YES	YES	YES	YES	YES
<del>TH 35 SINCLAIR RD</del>	<del>0.942 RT</del>	<del>YES</del>	<del>YES</del>	<del>YES</del>	<del>YES</del>	<del>YES</del>	<del>YES</del>
TH 33 ROCKY RD	1.450 RT	YES	YES	YES	YES	YES	YES
TH 32 HOAG RD	1.502 LT	YES	YES	NO	NO	NO	NO
TH 68	1.881LT	NO	NO	NO	NO	NO	NO
TH 68	2.345 LT	NO	NO	NO	NO	NO	NO
TH 30 WHITCOMB ISL RD	2.686 RT	YES	YES	YES	YES	YES	YES
TH 28 WILSON RD	2.883 RT	YES	YES	YES	YES	YES	YES
TH 5 MINE RD	2.883 LT	YES	YES	YES	YES	YES	YES
TH 26 OBER HILL RD	3.336 LT	YES	YES	YES	YES	YES	YES
TH 64 BRADLEY RD	5.231LT	YES	YES	NO	NO	NO	NO



PROJECT AREA

**LEGEND**

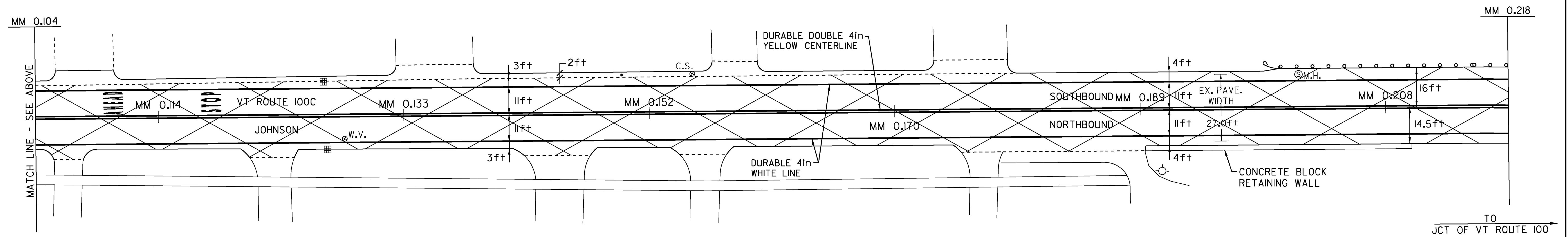
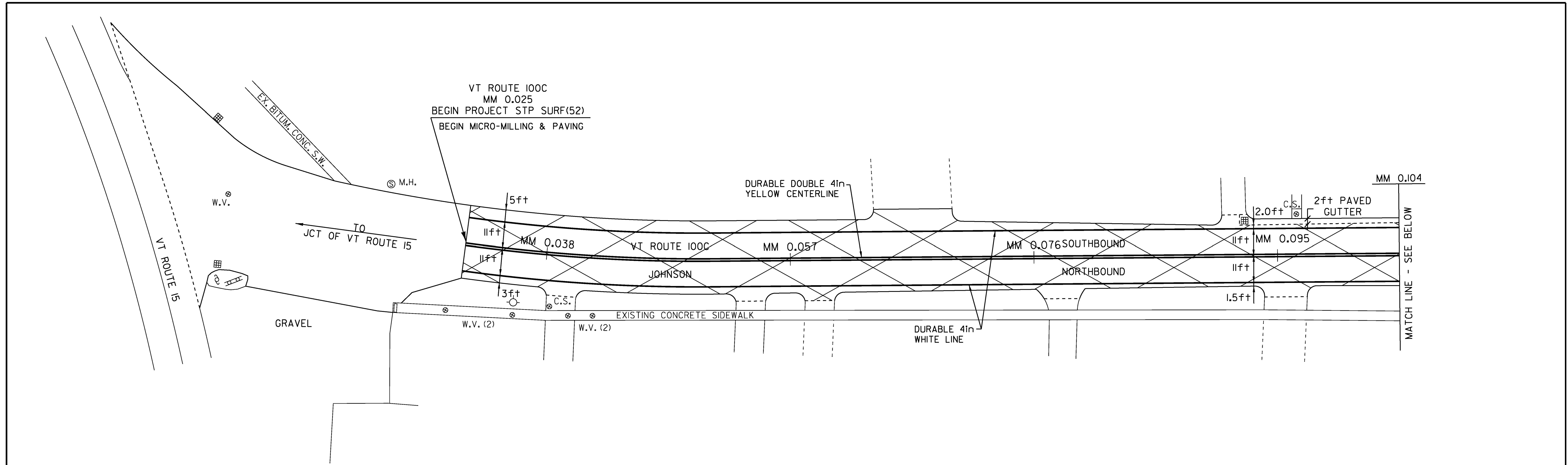
- TWBH-THROUGHWAY BEGINS HERE
- TWEH-THROUGHWAY ENDS HERE
- SHB-STATE HIGHWAY BEGINS
- SHE-STATE HIGHWAY ENDS
- SL-SPEED LIMIT
- SA - STATE AID TOWN HIGHWAY
- T/L-TOWN LINE
- C/3 - CLASS 3 TOWN HIGHWAY
- C/4 - CLASS 4 TOWN HIGHWAY

EXTRA  
S,T,O,P

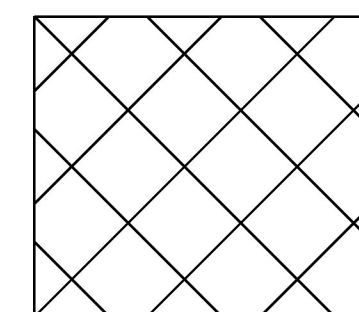
NOTES:  
1. THIS SHEET TO BE USED FOR THE LAYOUT OF ALL CENTERLINE PAVEMENT MARKINGS.  
THE ENGINEER MAY CONTACT KEITH SWEET, PAVEMENT MARKING SUPERVISOR AT  
(802) 828-5573 FOR ASSISTANCE LAYING OUT THE CENTERLINE DURING CONSTRUCTION.

**NOT TO SCALE**

PROJECT NAME: JOHNSON - HYDE PARK
PROJECT NUMBER: STP SURF(52)
FILE NAME: I4v204\pi4v204.dgn\pi4v204_15.I PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE CHECKED BY: M. FOWLER
CENTERLINE MARKING LAYOUT SHEET 2 SHEET 15 OF 45



CHANGING ELEVATION OF DI, CB OR MH  
MM 0.126 RT (DI)

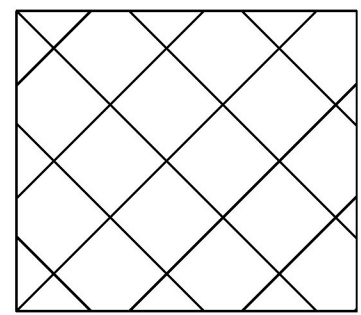
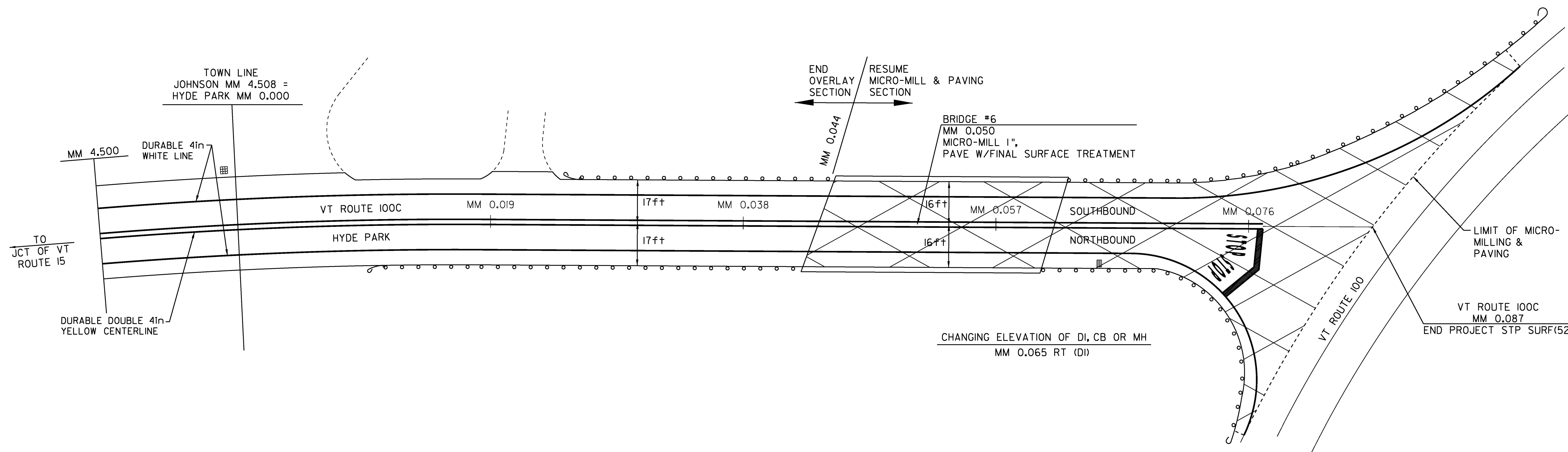


MICRO-MILL AREA

NOTES:  
1. ALL GATE VALVES AND MANHOLES WITHIN THE LIMITS OF PAVING NOT IDENTIFIED AS REQUIRING ADJUSTMENT WITH THE PROJECT SHALL BE ADJUSTED BY OTHERS.

**NOT TO SCALE**

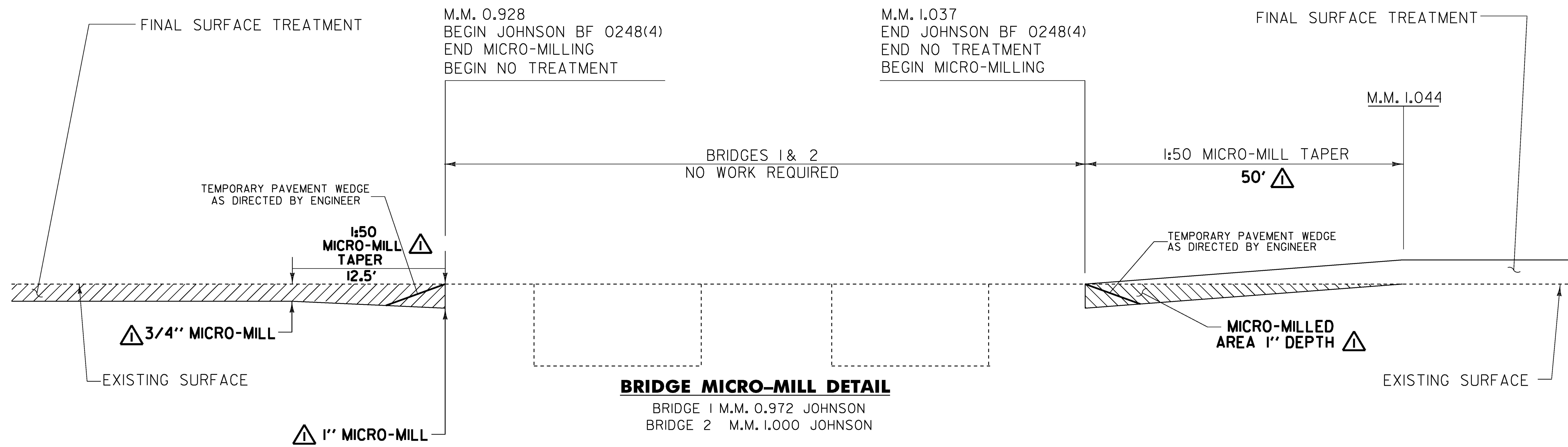
PROJECT NAME: JOHNSON - HYDE PARK	
PROJECT NUMBER: STP SURF(52)	
FILE NAME: I4v204\pi4v204.dgn\pi4v204_16.1	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
SPECIAL MICRO-MILLING DETAILS SHEET 1	SHEET 16 OF 45



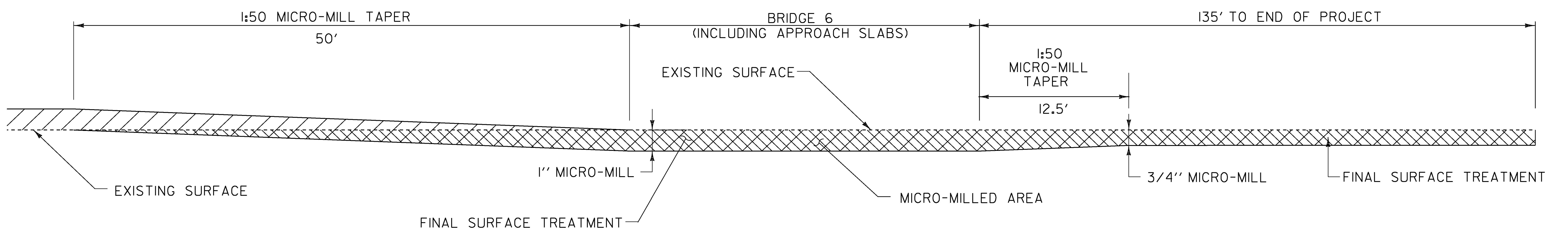
MICRO-MILL AREA

**NOT TO SCALE**

PROJECT NAME: JOHNSON - HYDE PARK	
PROJECT NUMBER: STP SURF(52)	
FILE NAME: I4v204\pi4v204.dgn\pi4v204_17.1	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
SPECIAL MICRO-MILLING DETAILS SHEET 2	SHEET 17 OF 45



**BRIDGE MICRO-MILL DETAIL**  
 BRIDGE 1 M.M. 0.972 JOHNSON  
 BRIDGE 2 M.M. 1.000 JOHNSON



**BRIDGE MICRO-MILL DETAIL**  
 BRIDGE 6 M.M. 0.054 HYDE PARK

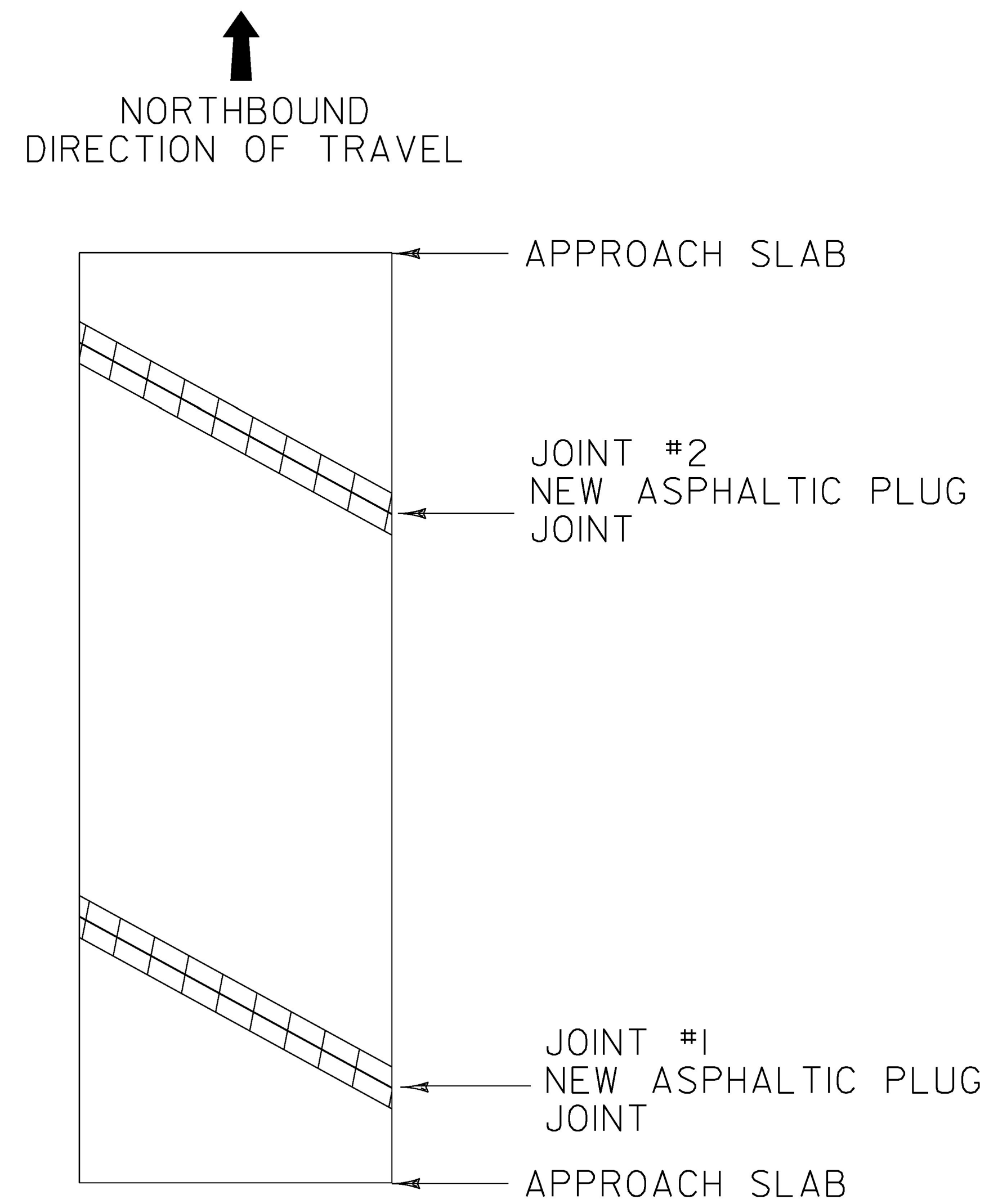
**NOTES:**

1. REFER TO ASPHALTIC PLUG JOINT DETAIL SHEET, SD-516.10. ALL NEW JOINTS WILL 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 MICRO-MILLING AND PAVING OPERATIONS OCCUR ON BRIDGE DECKS. SHOULD ANY DAMAGE OCCUR TO THE DECK OR MEMBRANE AS A RESULT OF THESE OPERATIONS THE ENGINEER SHALL CONTACT THE VTRANS CONSTRUCTION STRUCTURES ENGINEER TO PROVIDE AN ASSESSMENT OF THE DAMAGE AND RECOMMEND ANY NECESSARY REPAIRS. THE CONSTRUCTION STRUCTURES ENGINEER WILL ALSO DETERMINE IF THE DAMAGE WAS AVOIDABLE. IF THE CONTRACTOR IS DETERMINED BY THE CONSTRUCTION STRUCTURES ENGINEER TO BE AT FAULT FOR THE DAMAGE, THE RECOMMENDED REPAIRS SHALL BE COMPLETED BY THE CONTRACTOR AT NO COST TO THE STATE.

REVISION	DATE	DESCRIPTION	BY
1	01-27-16	CHANGED MICRO-MILL DEPTH TO 1" FROM 3/4". CHANGED MICRO-MILL TAPER LENGTHS.	KML

PROJECT NAME:	JOHNSON - HYDE PARK
PROJECT NUMBER:	STP SURF(52)
FILE NAME: I4v204\pi4v204.dgn\pi4v204_18.1	PLOT DATE: 26-JAN-2016
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
BRIDGE DETAIL SHEET 1	SHEET 18 OF 45

**NOT TO SCALE**



**BRIDGE 6**

MM 0.054 HYDE PARK

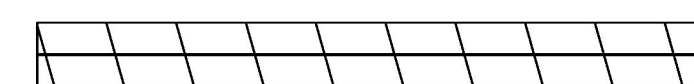
LENGTH OF ASPHALTIC PLUG JOINTS:

JOINT #1 - 38' (MM 0.045)

JOINT #2 - 38' (MM 0.063)

TOTAL = 76'

**LEGEND**

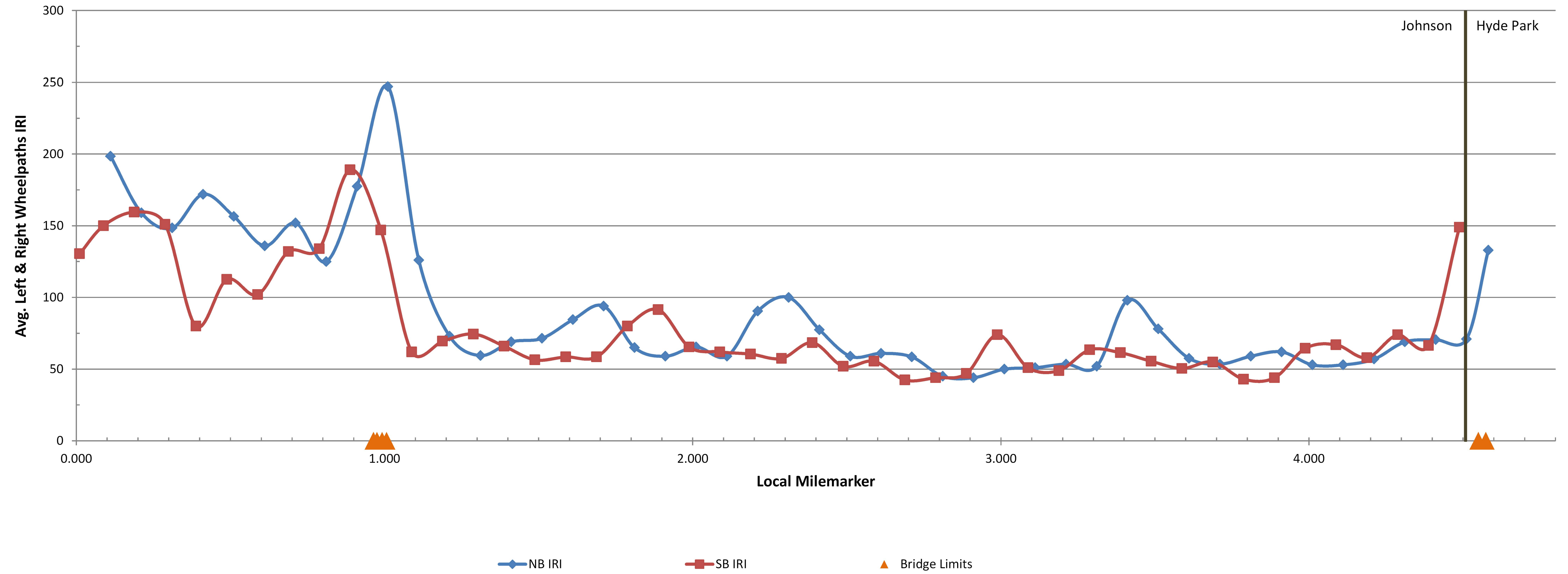


EXISTING BRIDGE JOINTS SHALL BE  
REPAIRED WITH ASPHALTIC PLUG JOINT

**NOT TO SCALE**

PROJECT NAME:	JOHNSON - HYDE PARK
PROJECT NUMBER:	STP SURF(52)
FILE NAME: I4v204\pi4v204.dgn\pi4v204_19.f	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
BRIDGE DETAIL SHEET 2	SHEET 19 OF 45

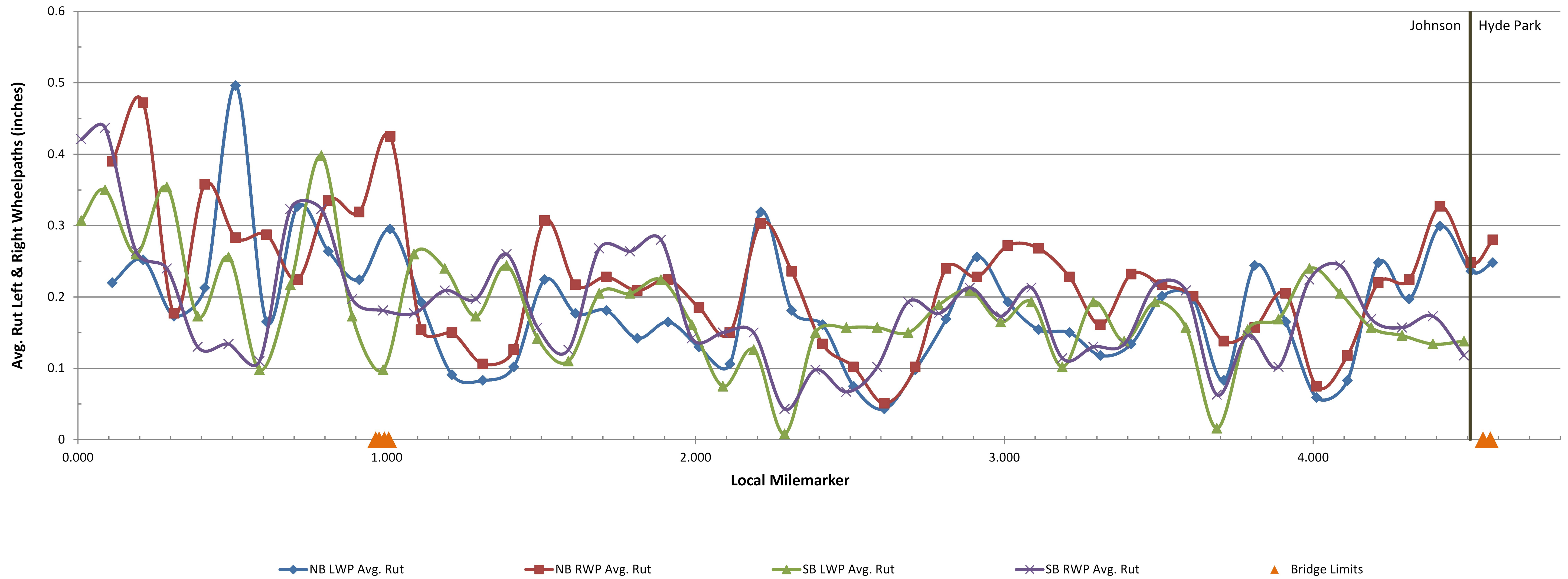
VT 100C Johnson-Hyde Park STP SURF(52) PreCon IRI  
 Profiled 10/1/2015  
 NB Avg. IRI = 90.3 SB Avg. IRI = 80.1



FOR INFORMATIONAL PURPOSES ONLY

PROJECT NAME:	JOHNSON - HYDE PARK		
PROJECT NUMBER:	STP SURF(52)		
FILE NAME:	I4v204\pl4v204.dgn\pl4v204_20.i	PLOT DATE:	04-NOV-2015
PROJECT LEADER:	M. FOWLER	DRAWN BY:	K. LOCKE
DESIGNED BY:	K. LOCKE	CHECKED BY:	M. FOWLER
ROUGHNESS DATA INFORMATION SHEET	SHEET 20 OF 45		

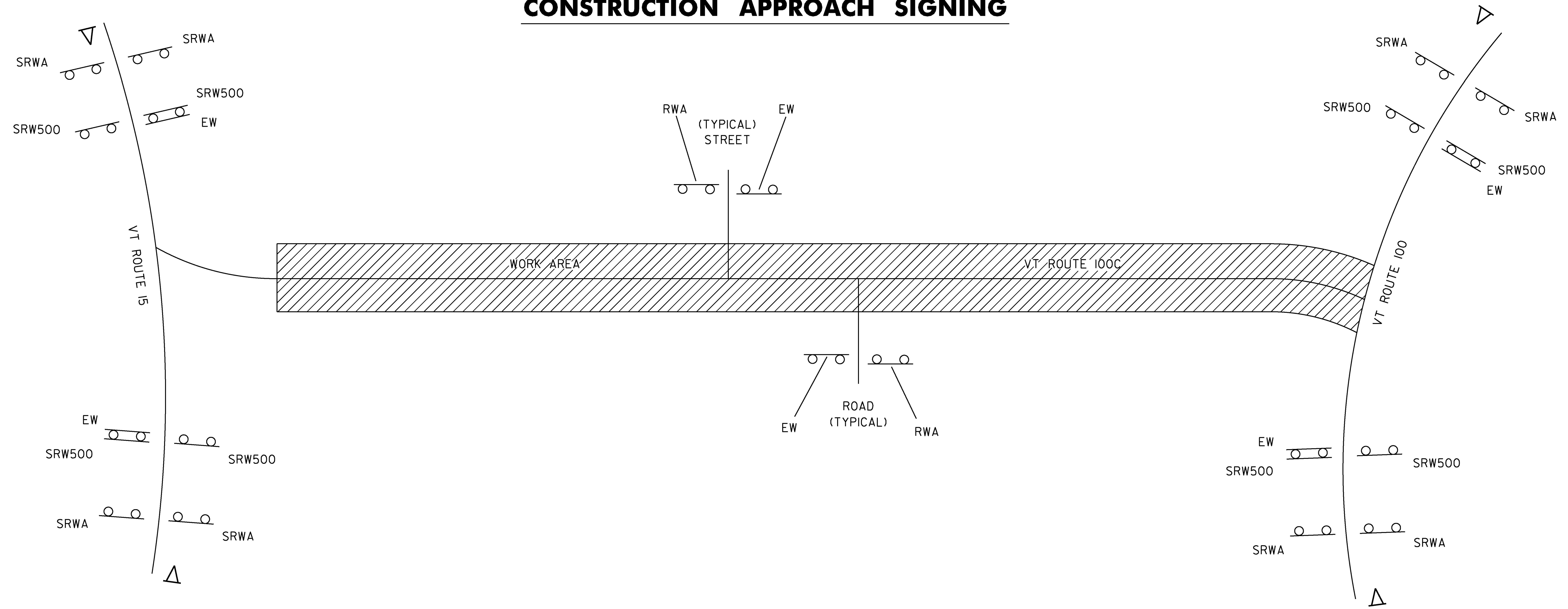
**VT 100C Johnson-Hyde Park STP SURF(52) PreCon Ruts**  
 Profiled 10/1/2015



**FOR INFORMATIONAL PURPOSES ONLY**

PROJECT NAME:	JOHNSON - HYDE PARK
PROJECT NUMBER:	STP SURF(52)
FILE NAME: I4v204\pl4v204.dgn\pl4v204_21.i	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
RUTTING DATA INFORMATION SHEET	SHEET 21 OF 45

# CONSTRUCTION APPROACH SIGNING



LIST OF  
CONSTRUCTION SIGNS

TOWN HIGHWAY	RWA	EW	SRWA	SRW500
JOHNSON				
BEGIN PROJECT		2	4	4
SCHOOL ROAD				
TH #56				
SINCLAIR ROAD				
ROCKY ROAD				
HOAG ROAD				
WHITCOMB ISLAND ROAD				
MINE ROAD				
WILSON ROAD				
OBER HILL ROAD				
BRADLEY ROAD				
HYDE PARK				
END PROJECT		2	4	4
TOTALS	10	14	8	8

LEGEND

- RWA = SIDE ROAD WORK AHEAD
- SRWA = SIDE ROAD WORK AHEAD
- SRW500 = SIDE ROAD WORK 500 FEET
- EW = END WORK
- △ = PORTABLE CHANGEABLE MESSAGE SIGN

PROJECT NAME:	JOHNSON - HYDE PARK
PROJECT NUMBER:	STP SURF(52)
FILE NAME:	I4v204\pi4v204.dgn\pi4v204_22.I
PLOT DATE:	04-NOV-2015
PROJECT LEADER:	M. FOWLER
DRAWN BY:	K. LOCKE
DESIGNED BY:	K. LOCKE
CHECKED BY:	M. FOWLER
CONSTRUCTION APPROACH SIGNING SHEET	SHEET 22 OF 45

**NOT TO SCALE**

NOTES:

1. THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO BEGINNING ANY FIELD WORK IN ACCORDANCE WITH SECTION 105.03. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) WILL NOT BE PAID SEPARATELY BUT WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10, TRAFFIC CONTROL.

2. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION APPROACH SIGN PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH VAOT STANDARD T-17 AND THE LATEST EDITION OF THE MUTCD. PAYMENT FOR PROVIDING THIS PACKAGE WILL BE CONSIDERED INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL.

3. THE BID PRICE FOR TRAFFIC CONTROL, ITEM 641.10, WILL INCLUDE ALL APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, PORTABLE ARROW BOARDS, BARRIERS, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN VAOT STANDARDS. ALL ADJUSTING, RELOCATING, AND REMOVING OF THESE DEVICES AS DIRECTED BY THE ENGINEER WILL ALSO BE INCLUDED. THE FOLLOWING ITEMS WILL BE PAID FOR SEPARATELY: 630.10 - UNIFORMED TRAFFIC OFFICERS, AND 630.15 - FLAGGERS, 646.602 - TEMPORARY 4 INCH WHITE LINE, PAINT, 646.612 - TEMPORARY 4 INCH YELLOW LINE, PAINT, 646.682 - TEMPORARY 24 INCH STOP BAR, PAINT, 646.692 - TEMPORARY LETTER OR SYMBOL, PAINT, AND 646.76 - LINE STRIPING TARGETS.

4. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE PROVIDED FOR USE ALONG THIS PROJECT. THE PLACEMENT OF THESE UNITS AS WELL AS THE MESSAGE WILL BE APPROVED BY THE ENGINEER. THESE SIGNS WILL BE PAID FOR UNDER ITEM 641.15, PORTABLE CHANGEABLE MESSAGE SIGN.

FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL POSITION A PCMS PRIOR TO THE BEGIN AND END PROJECT LIMITS WARNING MOTORISTS OF EXPECTED ROADWAY CONDITIONS AND REDUCED ROADWAY WIDTHS.

PCMS SHOULD NOT REPLACE ANY OF THE SIGNING DETAILED IN THE MUTCD AND SHOULD NOT BE USED IF STANDARD TRAFFIC CONTROL DEVICES ADEQUATELY PROVIDE THE INFORMATION THE MOTORISTS NEED TO TRAVEL SAFELY.

THE PCMS SHALL CONSIST OF EITHER ONE OR TWO PHASES. TYPICALLY, A PHASE SHALL CONSIST OF UP TO THREE LINES OF EIGHT CHARACTERS PER LINE. THE PCMS SHOULD BE USED AS A SUPPLEMENT AND NOT AS A SUBSTITUTE FOR CONVENTIONAL SIGNS AND PAVEMENT MARKINGS.

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

5. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE, AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS.

6. REFER TO VAOT STANDARDS AND THE LATEST EDITION OF THE MUTCD FOR TEMPORARY TRAFFIC CONTROL SIGN COLORS.

7. EXISTING SPEED LIMIT SIGNS SHALL BE COVERED WHEN REDUCED SPEED SIGNS ARE POSTED. KEEP RECORDS WHEN POSTING THE WORK ZONE SPEED LIMIT FOR LEGAL PURPOSES; DOCUMENTING DATES, TIMES, AND LOCATIONS OF SIGNS. WHEN WORK ZONE SPEED LIMIT IS NOT IN USE ALL ASSOCIATED SIGNS SHALL BE COVERED, TURNED AND/OR LAID FLAT SO AS THE MOTORING PUBLIC CANNOT READ THESE SIGNS.

8. PORTABLE OR STATIONARY WORK ZONE SPEED LIMIT SIGNS SHOULD BE SPACED EVERY 1.5 TO 2 MILES WHERE APPLICABLE AND AFTER INTERSECTIONS AS A REMINDER TO THE MOTORIST TRAVELING THROUGH THE WORK ZONE WHAT SPEED THEY SHOULD BE TRAVELING.

9. WHEN REDUCED REGULATORY SPEED LIMIT SIGNS ARE USED, THE RESUMPTION OF THE USUAL SPEED LIMIT SHALL BE INDICATED BY AN APPROPRIATE SPEED LIMIT SIGN AT THE END OF THE WORK ZONE.

10. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MUTCD, PART 6.

11. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.

12. IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF FOUR FEET. IF THE TPAR IS LESS THAN FIVE FEET IN WIDTH, A FIVE FOOT BY FIVE FOOT PASSING SPACE SHOULD BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICT WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.

13. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASH WORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF THE MUTCD SHALL BE USED.

14. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.

15. THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE PROPER PROTECTION AND A TPAR HAVE BEEN PROVIDED.

16. THE CONTRACTOR SHALL SUBMIT A TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW AND WRITTEN APPROVAL TO THE ENGINEER A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC. PAYMENT FOR DEVELOPING, IMPLEMENTING, AND MAINTAINING THE TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN WILL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 641.10.

PROJECT NAME: JOHNSON - HYDE PARK

PROJECT NUMBER: STP SURF(52)

FILE NAME: I4v204\pi4v204.dgn\pi4v204_23.I PLOT DATE: 04-NOV-2015

PROJECT LEADER: M. FOWLER DRAWN BY: K. LOCKE

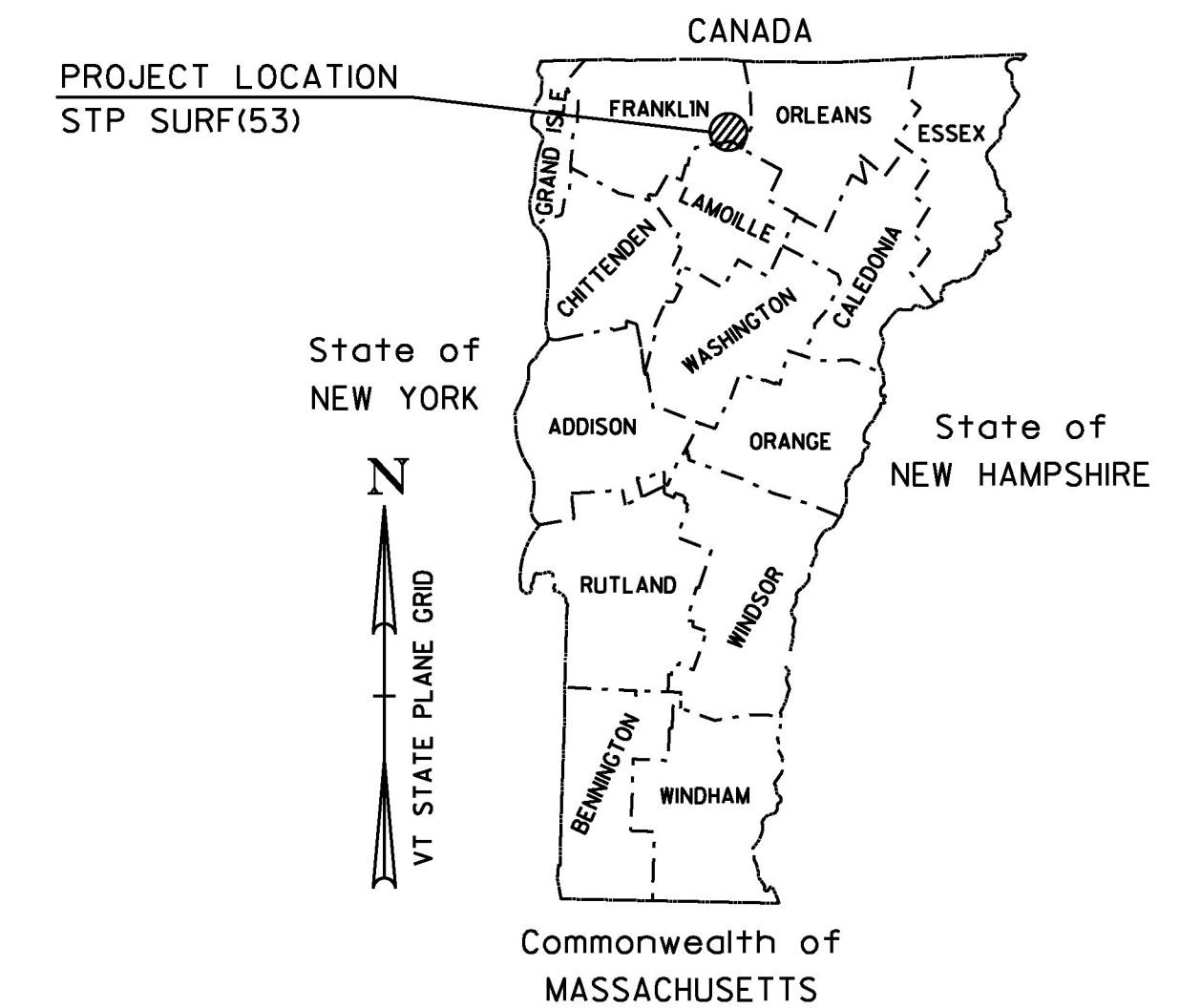
DESIGNED BY: K. LOCKE CHECKED BY: M. FOWLER

TRAFFIC CONTROL NOTES SHEET SHEET 23 OF 45

# STATE OF VERMONT AGENCY OF TRANSPORTATION



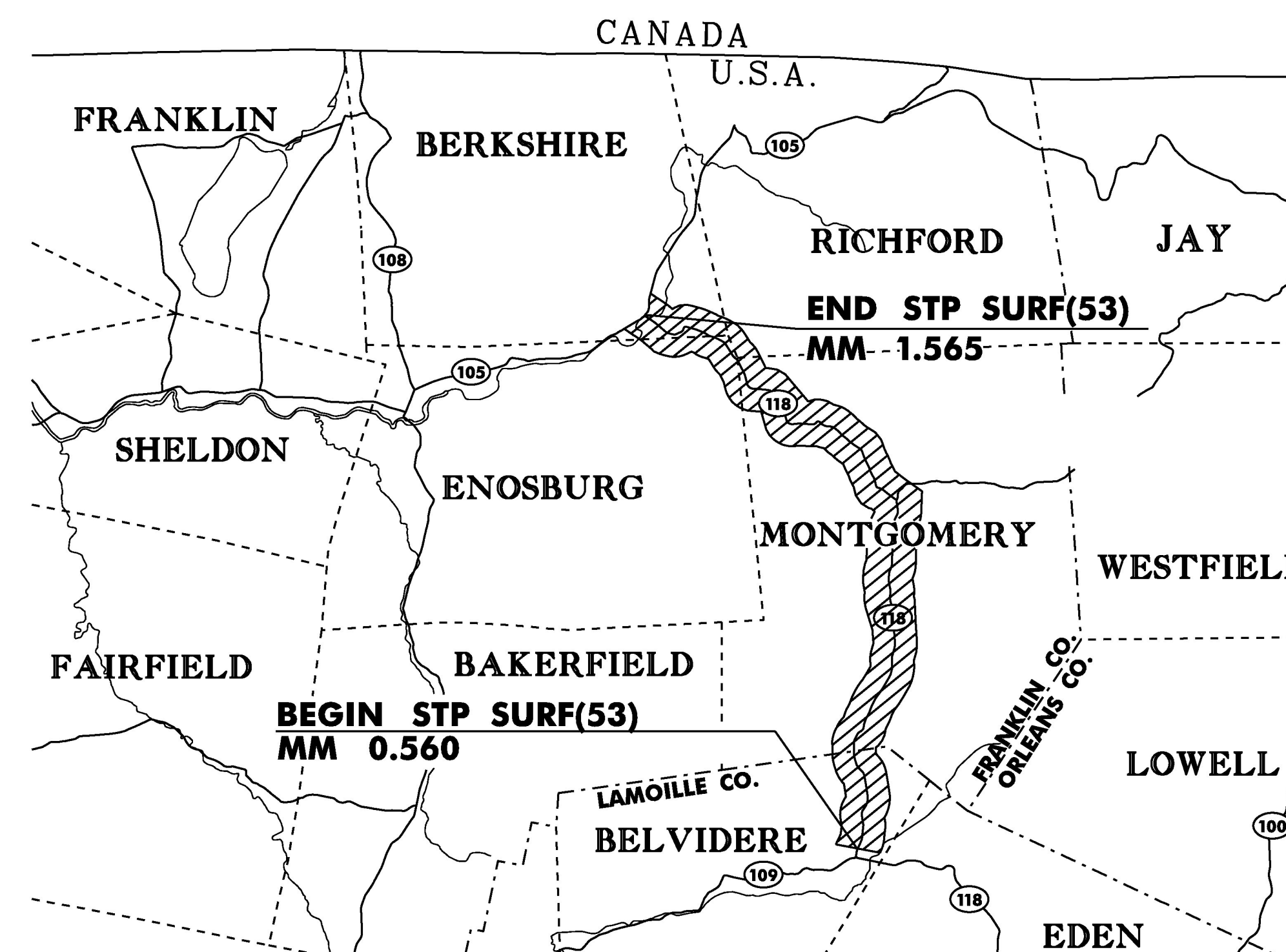
## PROPOSED IMPROVEMENT TOWNS OF BELVIDERE, MONTGOMERY, ENOSBURG & BERKSHIRE COUNTIES OF LAMOILLE & FRANKLIN VT ROUTE 118 (MAJOR COLLECTOR)



BEGINNING IN THE TOWN OF BELVIDERE AT MILE MARKER 0.056 AND EXTENDING NORTHERLY ALONG VT ROUTE 118 THROUGH THE TOWNS OF MONTGOMERY AND ENOSBURG FOR A DISTANCE OF 80,118.72 FT (15.174 MILES) TO MILE MARKER 1.565 (VT 118/VT 105 JCT) IN THE TOWN OF BERKSHIRE.

LENGTH OF ROADWAY = 80,118.72 FT = (15.174 MILES)  
LENGTH OF PROJECT = 80,118.72 FT = (15.174 MILES)

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

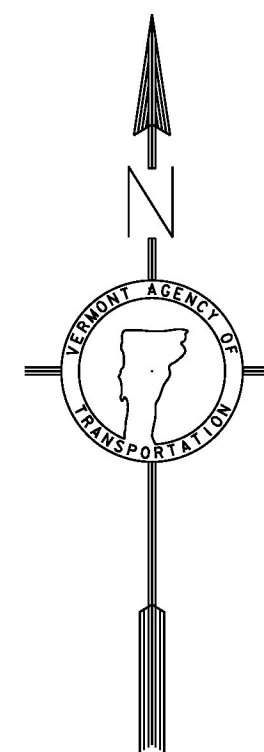


TRAFFIC DATA

VT 118	2015 AADT	2025 AADT	2015 DHV	2025 DHV	FLEXIBLE ESALS (2015-2025)	FLEXIBLE ESALS (2015-2035)
BEGIN PROJECT TO SOUTH BROOK RD (TH 43)	590	600	100	110	192,000	465,000
SOUTH BROOK RD (TH 43) TO NOTCH RD (VT 58)	1,000	1,000	160	160	256,000	552,000
NOTCH RD (VT 58) TO VT 242	2,000	2,100	300	310	389,000	964,000
VT 242 TO FULLER BRIDGE RD (TH 1)	2,300	2,400	340	350	447,000	1,012,000
FULLER BRIDGE RD (TH 1) TO PRIVE HILL RD (TH 6)	1,600	1,600	240	240	281,000	614,000
PRIVE HILL RD (TH 6) TO END PROJECT	2,500	2,600	330	340	661,000	1,487,000

NOT TO SCALE

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



QUALITY ASSURANCE PROGRAM : LEVEL 3
SURVEYED BY : N/A SURVEYED DATE : N/A
DATUM VERTICAL N/A HORIZONTAL N/A

PROJECT MANAGER : MICHAEL J. FOWLER, P.E.
PROJECT NAME : BELVIDERE - BERKSHIRE PROJECT NUMBER : STP SURF (53)
SHEET 24 OF 45 SHEETS



# QUANTITY SHEET 2

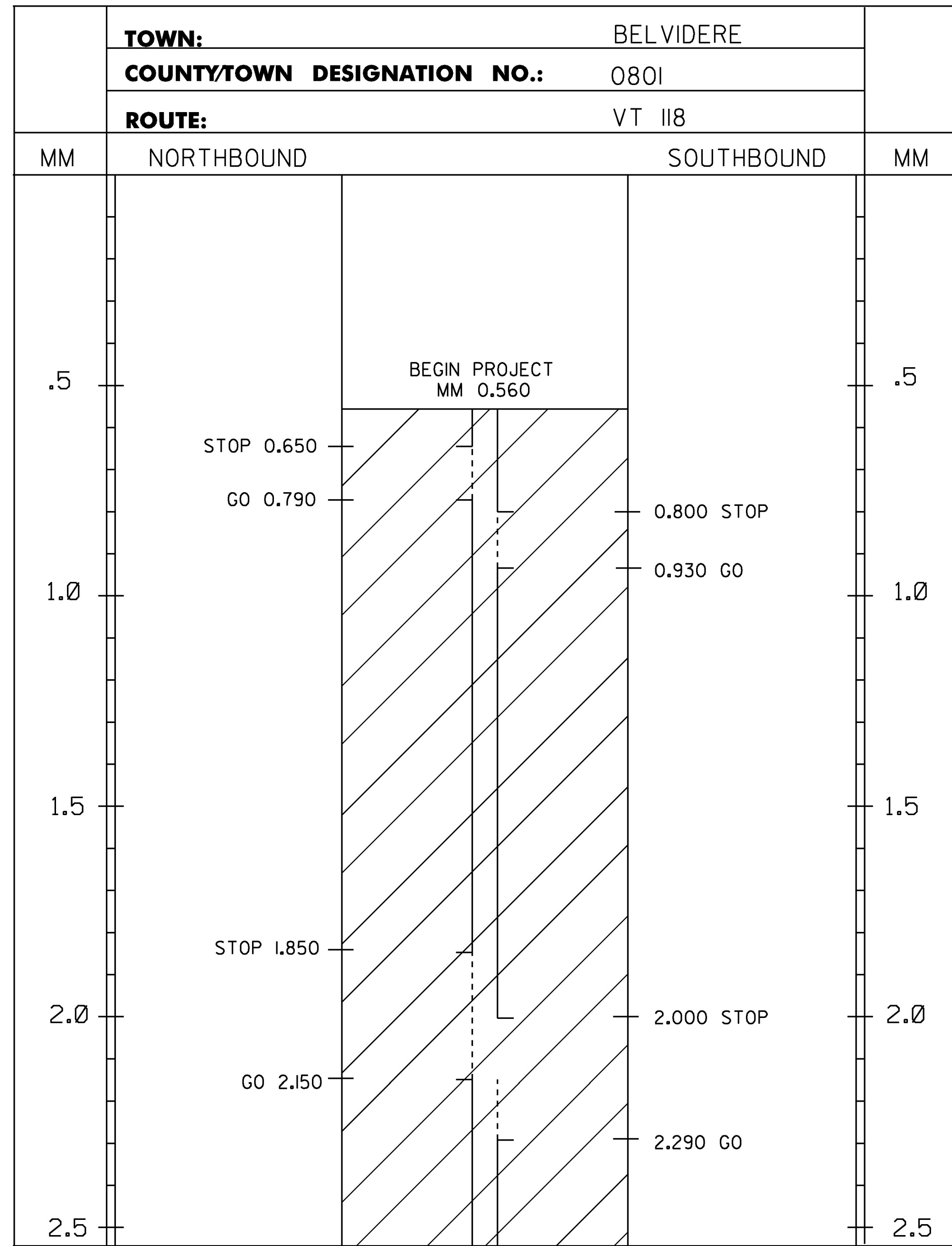
**STATE OF VERMONT  
AGENCY OF TRANSPORTATION**

SUMMARY OF ESTIMATED QUANTITIES								
ROADWAY ALT. A	ROADWAY ALT. B	ROADWAY ALT. C	ROADWAY	FULL C.E.	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO. ROUNDED
			240		240	LF	TEMPORARY 8 INCH WHITE LINE, PAINT	646.642 EST
			360		360	LF	TEMPORARY 24 INCH STOP BAR, PAINT	646.682 EST
			89		89	EA	TEMPORARY LETTER OR SYMBOL, PAINT	646.692 -
			32,050		32,050	EA	LINE STRIPING TARGETS	646.76 EST
			73,860		73,860	SF	REMOVAL OF EXISTING PAVEMENT MARKINGS	646.85 EST
			1		1	LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50 -
			155,700		155,700	LF	SPECIAL PROVISION (DURABLE 4 INCH WHITE LINE, POLYUREA) (28 MIL)	900.640 EST
			145,400		145,400	LF	SPECIAL PROVISION (DURABLE 4 INCH YELLOW LINE, POLYUREA) (28 MIL)	900.640 EST
			240		240	LF	SPECIAL PROVISION (DURABLE 8 INCH WHITE LINE, POLYUREA) (28 MIL)	900.640 EST
			130,500		130,500	SY	SPECIAL PROVISION (MICRO-MILLING BITUMINOUS CONCRETE PAVEMENT)	900.675 70
			3,000		3,000	SY	SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL DRIVES)	900.675 244
			100		100	TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE I)	900.680 EST
			55		55	CWT	SPECIAL PROVISION (FOG SEAL SURFACE TREATMENT)	900.683 EST
							END ITEMS COMMON TO ALL ALTERNATES	
							BEGIN ALTERNATE A	
267,000					267,000	SY	SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C)	900.675 540
							END ALTERNATE A	
							BEGIN ALTERNATE B	
	1,850				1,850	CWT	EMULSIFIED ASPHALT (RS-I)	404.65 60
	1				1	LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31 -
	16,000				16,000	TON	SPECIAL PROVISION (6.3 MM POLYMER MODIFIED BITUMINOUS CONCRETE PAVEMENT)(SBR OR SBS POLYMER)	900.680 457
							END ALTERNATE B	
							BEGIN ALTERNATE C	
		1			1	LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31 -
		16,000			16,000	TON	SPECIAL PROVISION (6.3 MM POLYMER MODIFIED BITUMINOUS CONCRETE PAVEMENT)(SBR OR SBS POLYMER)	900.680 457
		1,850			1,850	CWT	SPECIAL PROVISION (EMULSIFIED ASPHALT)(RS-IH OR CRS-IH)	900.683 60
							END ALTERNATE C	

DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS
		SPECIAL PROVISION (MICRO-MILLING BITUMINOUS CONCRETE PAVEMENT)
167	SY	BEGIN PROJECT APPROACH
127,820	SY	MAINLINE (MONTGOMERY MM 5.565 TO END PROJECT)
333	SY	BRIDGE II APPROACHES
360	SY	BRIDGE I2 & APPROACHES
1,750	SY	TOWN HIGHWAY APPROACHES
70	SY	ROUNDING
130,500	SY	TOTAL
		ALTERNATE A
		SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C)
264,710	SY	MAINLINE
1,750	SY	TOWN HIGHWAY APPROACHES
540	SY	ROUNDING
267,000	SY	TOTAL

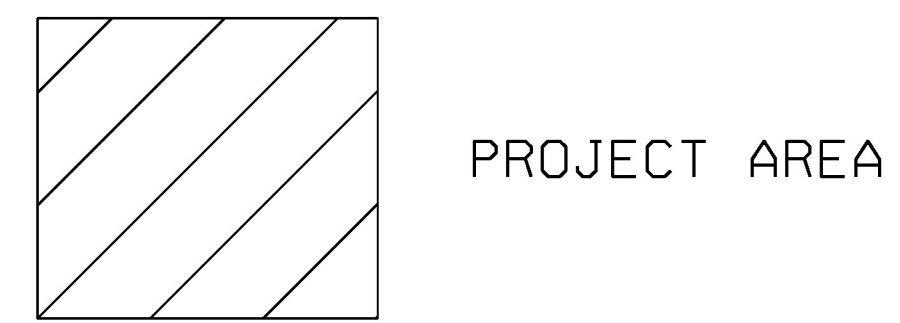
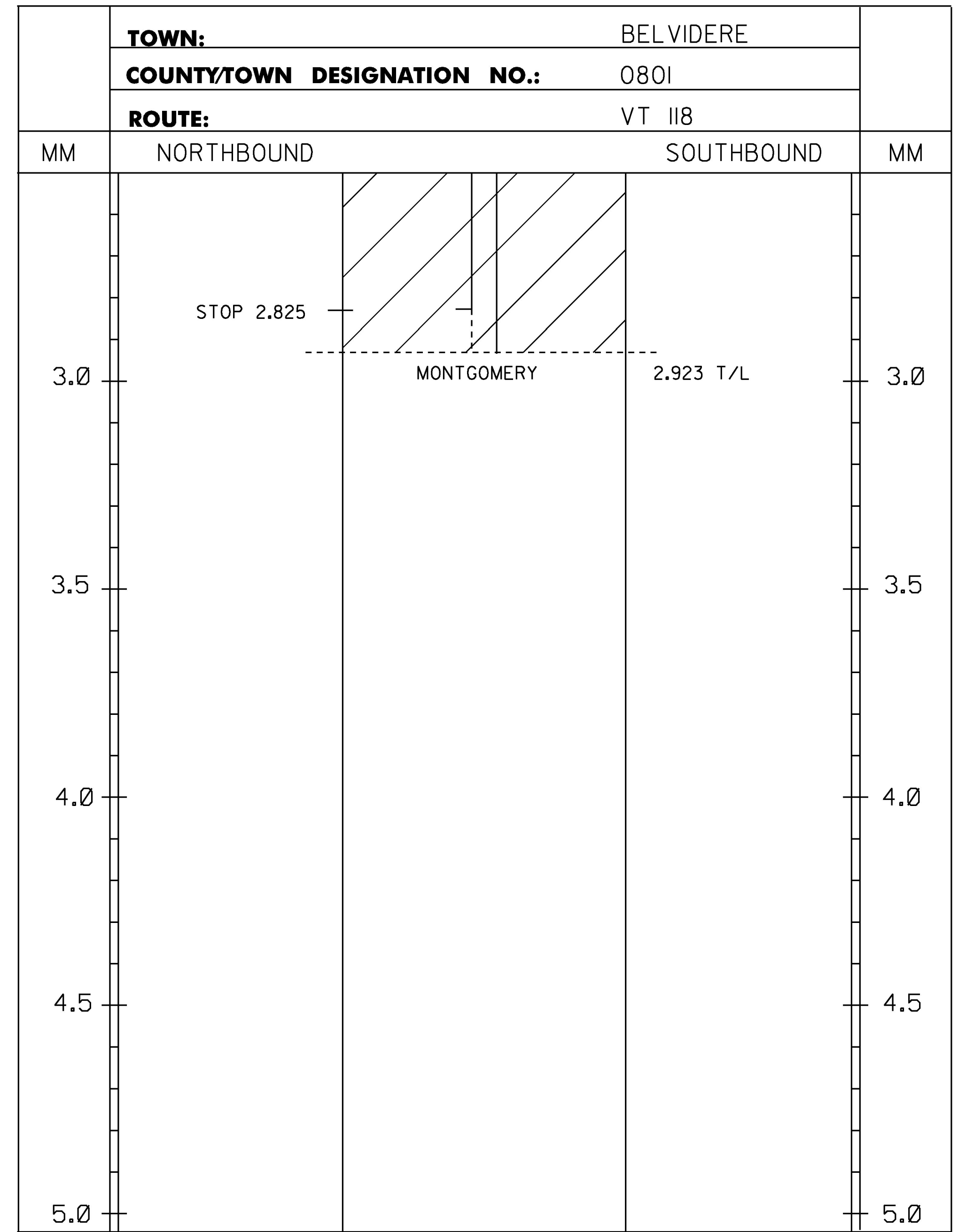
DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS
		ALTERNATE B
		SPECIAL PROVISION (6.3 MM POLYMER MODIFIED BITUMINOUS CONCRETE PAVEMENT)(SBR OR SBS POLYMER)
15,441	TON	MAINLINE
102	TON	TOWN HIGHWAY APPROACHES
457	TON	ROUNDING
16,000	TON	TOTAL
		ALTERNATE C
		SPECIAL PROVISION (6.3 MM POLYMER MODIFIED BITUMINOUS CONCRETE PAVEMENT)(SBR OR SBS POLYMER)
15,441	TON	MAINLINE
102	TON	TOWN HIGHWAY APPROACHES
457	TON	ROUNDING
16,000	TON	TOTAL

PROJECT NAME: BELVIDERE - BERKSHIRE  
 PROJECT NUMBER: STP SURF(53)  
 FILE NAME: I4v204\pl4v204.dgn\pl4v204_26.i PLOT DATE: 05-NOV-2015  
 PROJECT LEADER: M. FOWLER DRAWN BY: K. LOCKE  
 DESIGNED BY: K. LOCKE CHECKED BY: M. FOWLER  
 QUANTITY SHEET 2 SHEET 26 OF 45



TEMPORARY 4 INCH WHITE LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH WHITE LINE, POLYUREA)(28 MIL)  
MM 0.560 - MM 2.923 LT & RT (EDGE LINES)  
(WITH BREAKS OR RADIAT TOWN HIGHWAYS)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH YELLOW LINE, POLYUREA)(28 MIL)  
MM 0.560 - MM 0.650 SOLID LT & RT  
MM 0.650 - MM 0.790 SOLID LT, DASHED RT  
MM 0.790 - MM 0.800 SOLID LT & RT  
MM 0.800 - MM 0.930 DASHED LT, SOLID RT  
MM 0.930 - MM 1.850 SOLID LT & RT  
MM 1.850 - MM 2.000 SOLID LT, DASHED RT  
MM 2.000 - MM 2.150 DASHED CL  
MM 2.150 - MM 2.290 DASHED LT, SOLID RT  
MM 2.290 - MM 2.825 SOLID LT & RT  
MM 2.825 - MM 2.923 SOLID LT, DASHED RT  
(WITH CL BREAKS AT TOWN HIGHWAYS)



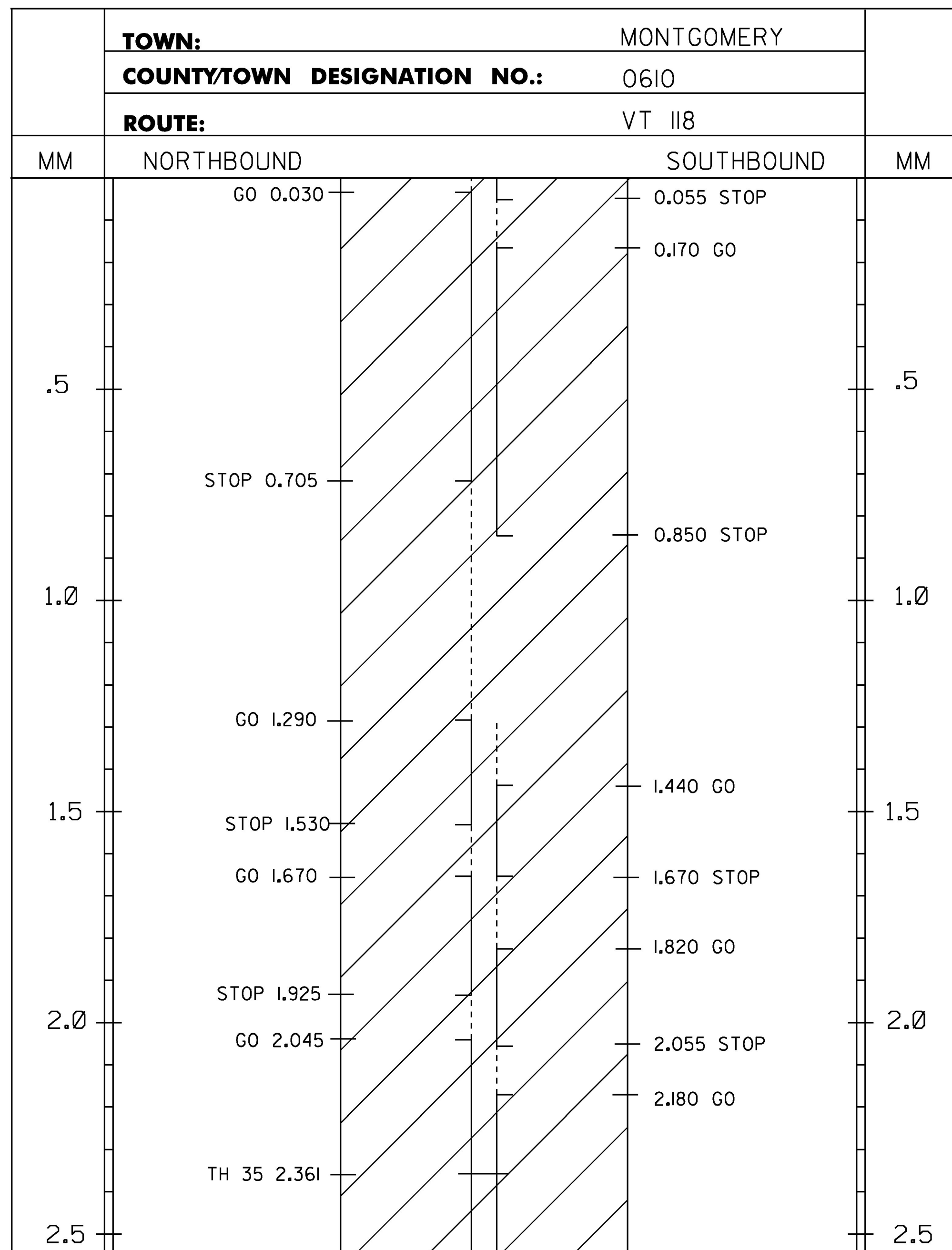
**LEGEND**

TWBH-THROUGHWAY BEGINS HERE  
TWEH-THROUGHWAY ENDS HERE  
SHB-STATE HIGHWAY BEGINS  
SHE-STATE HIGHWAY ENDS  
SL-SPEED LIMIT  
SA - STATE AID TOWN HIGHWAY  
T/L-TOWN LINE  
C/3 - CLASS 3 TOWN HIGHWAY  
C/4 - CLASS 4 TOWN HIGHWAY

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

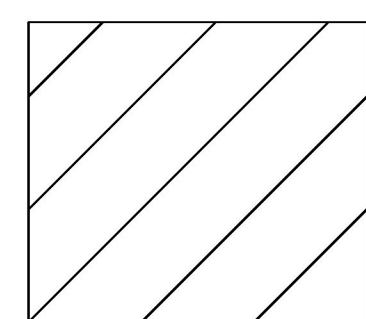
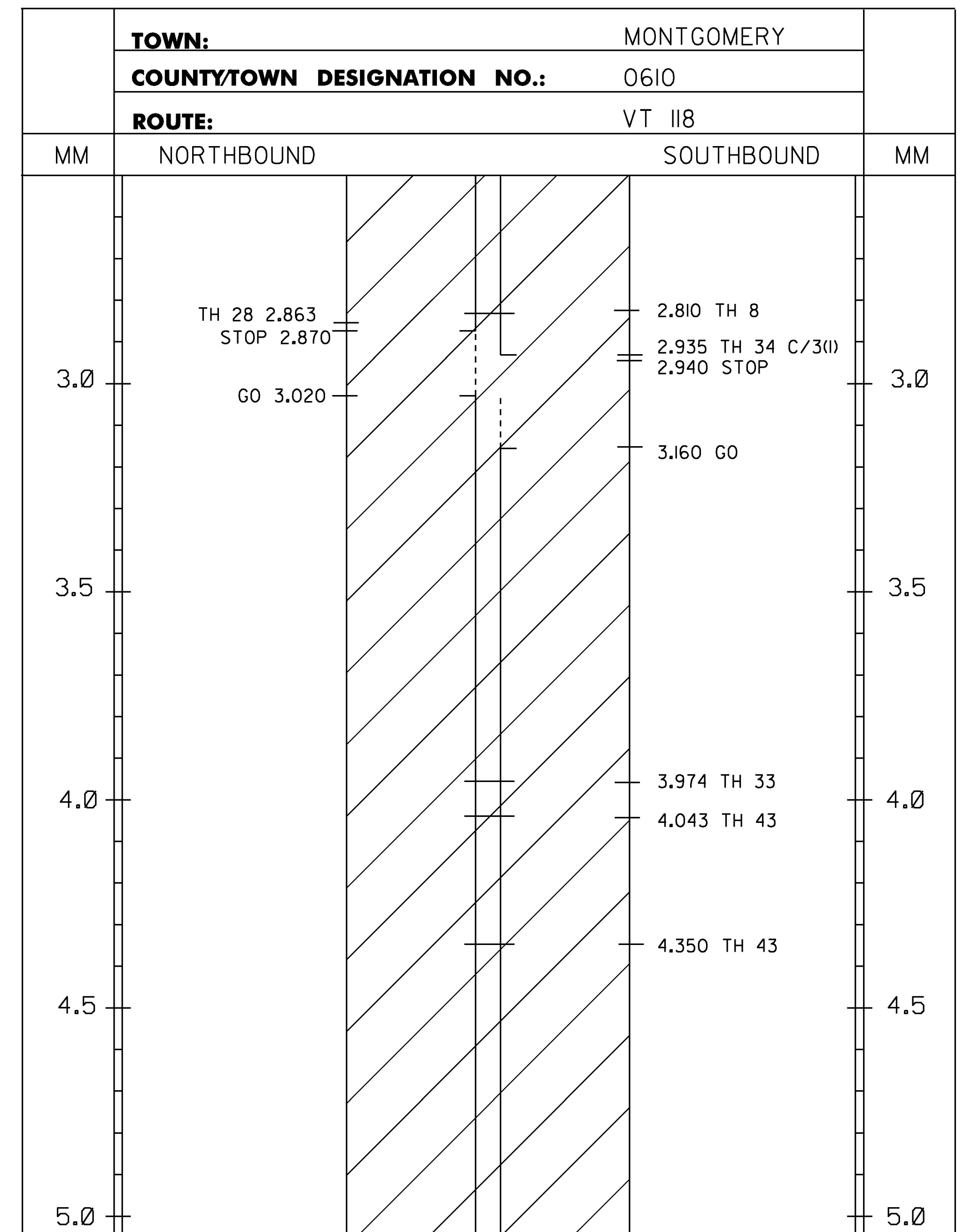
**NOT TO SCALE**

PROJECT NAME: BELVIDERE - BERKSHIRE	
PROJECT NUMBER: STP SURF(53)	
FILE NAME: I4v204\pi4v204.dgn\pi4v204_27.1	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
CENTERLINE MARKING LAYOUT SHEET 1	SHEET 27 OF 45



TEMPORARY 4 INCH WHITE LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH WHITE LINE, POLYUREA)(28 MIL)  
MM 0.000 - MM 5.000 LT & RT (EDGE LINES)  
(WITH BREAKS OR RADII AT TOWN HIGHWAYS)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH YELLOW LINE, POLYUREA)(28 MIL)  
MM 0.000 - MM 0.030 SOLID LT, DASHED RT  
MM 0.030 - MM 0.055 SOLID LT & RT  
MM 0.055 - MM 0.170 DASHED LT, SOLID RT  
MM 0.170 - MM 0.705 SOLID LT & RT  
MM 0.705 - MM 0.850 SOLID LT, DASHED RT  
MM 0.850 - MM 1.290 DASHED CL  
MM 1.290 - MM 1.440 DASHED LT, SOLID RT  
MM 1.440 - MM 1.530 SOLID LT & RT  
MM 1.530 - MM 1.670 SOLID LT, DASHED RT  
MM 1.670 - MM 1.820 DASHED LT, SOLID RT  
MM 1.820 - MM 1.925 SOLID LT & RT  
MM 1.925 - MM 2.045 SOLID LT, DASHED RT  
MM 2.045 - MM 2.055 SOLID LT & RT  
MM 2.055 - MM 2.180 DASHED LT, SOLID RT  
MM 2.180 - MM 2.870 SOLID LT & RT  
MM 2.870 - MM 2.940 SOLID LT, DASHED RT  
MM 2.940 - MM 3.020 DASHED CL  
MM 3.020 - MM 3.160 DASHED LT, SOLID RT  
MM 3.160 - MM 5.000 SOLID LT & RT  
(WITH CL BREAKS AT TOWN HIGHWAYS)



PROJECT AREA

**LEGEND**

TWBH-THROUGHWAY BEGINS HERE  
TWEH-THROUGHWAY ENDS HERE  
SHB-STATE HIGHWAY BEGINS  
SHE-STATE HIGHWAY ENDS  
SL-SPEED LIMIT  
SA - STATE AID TOWN HIGHWAY  
T/L-TOWN LINE  
C/3 - CLASS 3 TOWN HIGHWAY  
C/4 - CLASS 4 TOWN HIGHWAY

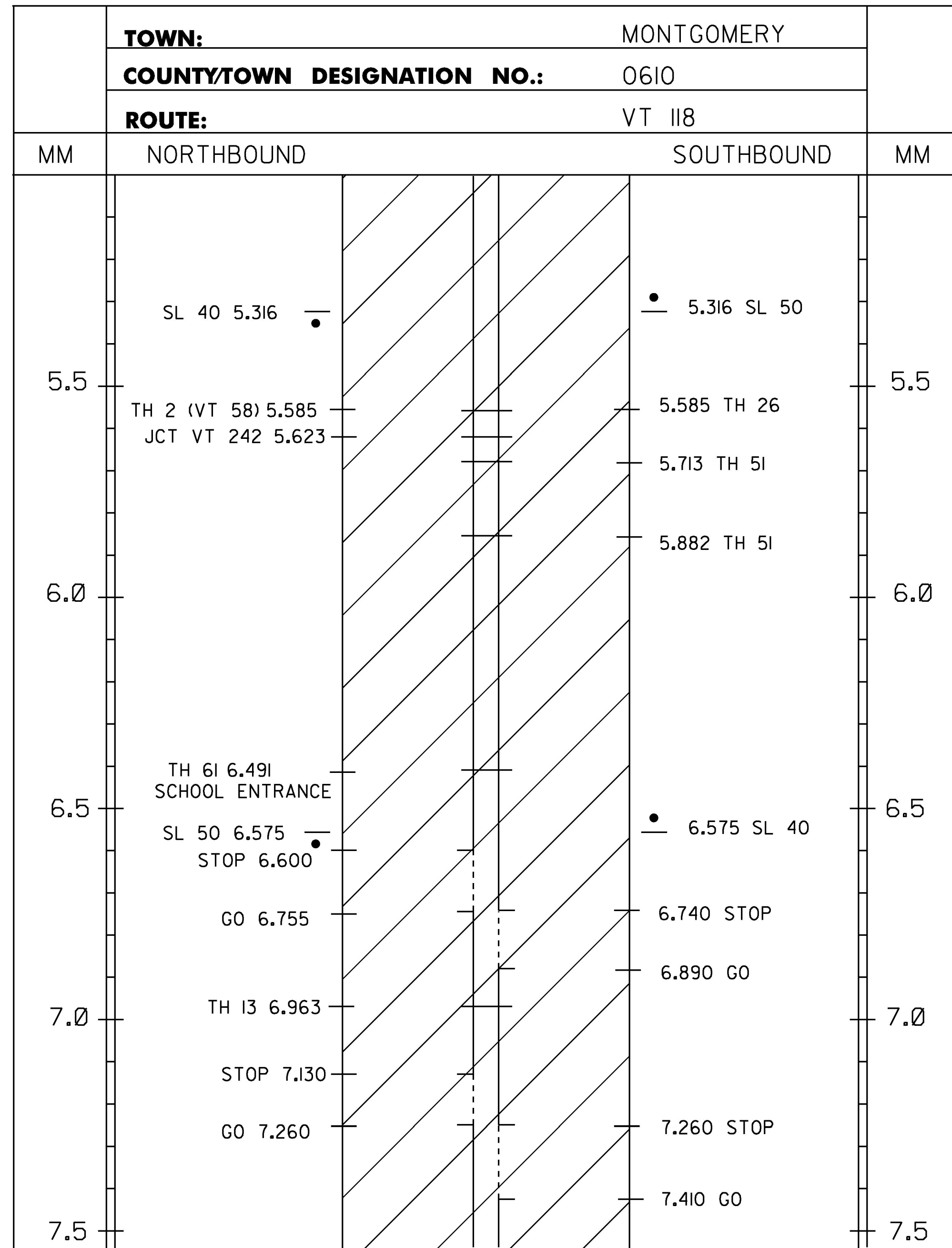
**NOTES:**

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

**NOT TO SCALE**

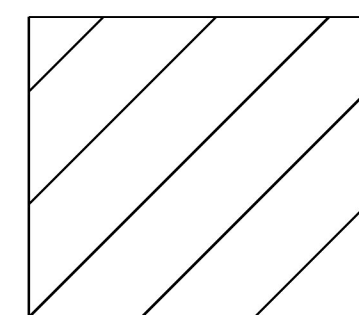
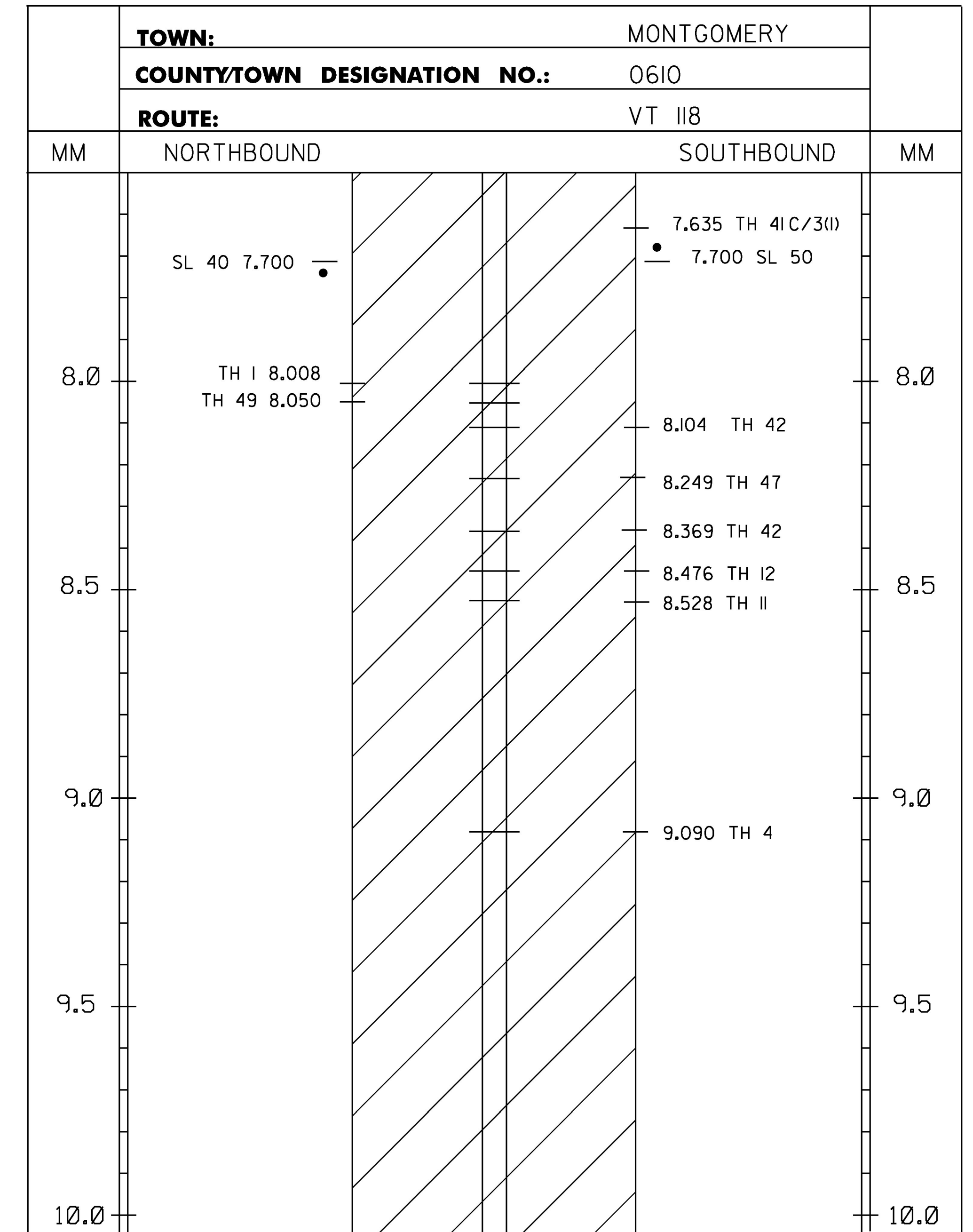
PROJECT NAME: BELVIDERE - BERKSHIRE  
PROJECT NUMBER: STP SURF(53)

FILE NAME: I4v204\pi4v204.dgn\pi4v204_28.I PLOT DATE: 04-NOV-2015  
PROJECT LEADER: M. FOWLER DRAWN BY: K. LOCKE  
DESIGNED BY: K. LOCKE CHECKED BY: M. FOWLER  
CENTERLINE MARKING LAYOUT SHEET 2 SHEET 28 OF 45



TEMPORARY 4 INCH WHITE LINE, PAINT  
 SPECIAL PROVISION (DURABLE 4 INCH WHITE LINE, POLYUREA)(28 MIL)  
 MM 5.000 - MM 10.000 LT & RT (EDGE LINES)  
 (WITH BREAKS OR RADIUS AT TOWN HIGHWAYS)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
 SPECIAL PROVISION (DURABLE 4 INCH YELLOW LINE, POLYUREA)(28 MIL)  
 MM 5.000 - MM 6.600 SOLID LT & RT  
 MM 6.600 - MM 6.740 SOLID LT, DASHED RT  
 MM 6.740 - MM 6.755 DASHED CL  
 MM 6.755 - MM 6.890 DASHED LT, SOLID RT  
 MM 6.890 - MM 7.130 SOLID LT & RT  
 MM 7.130 - MM 7.260 SOLID LT, DASHED RT  
 MM 7.260 - MM 7.410 DASHED LT, SOLID RT  
 MM 7.410 - MM 10.000 SOLID LT & RT  
 (WITH CL BREAKS AT TOWN HIGHWAYS)



PROJECT AREA

**LEGEND**

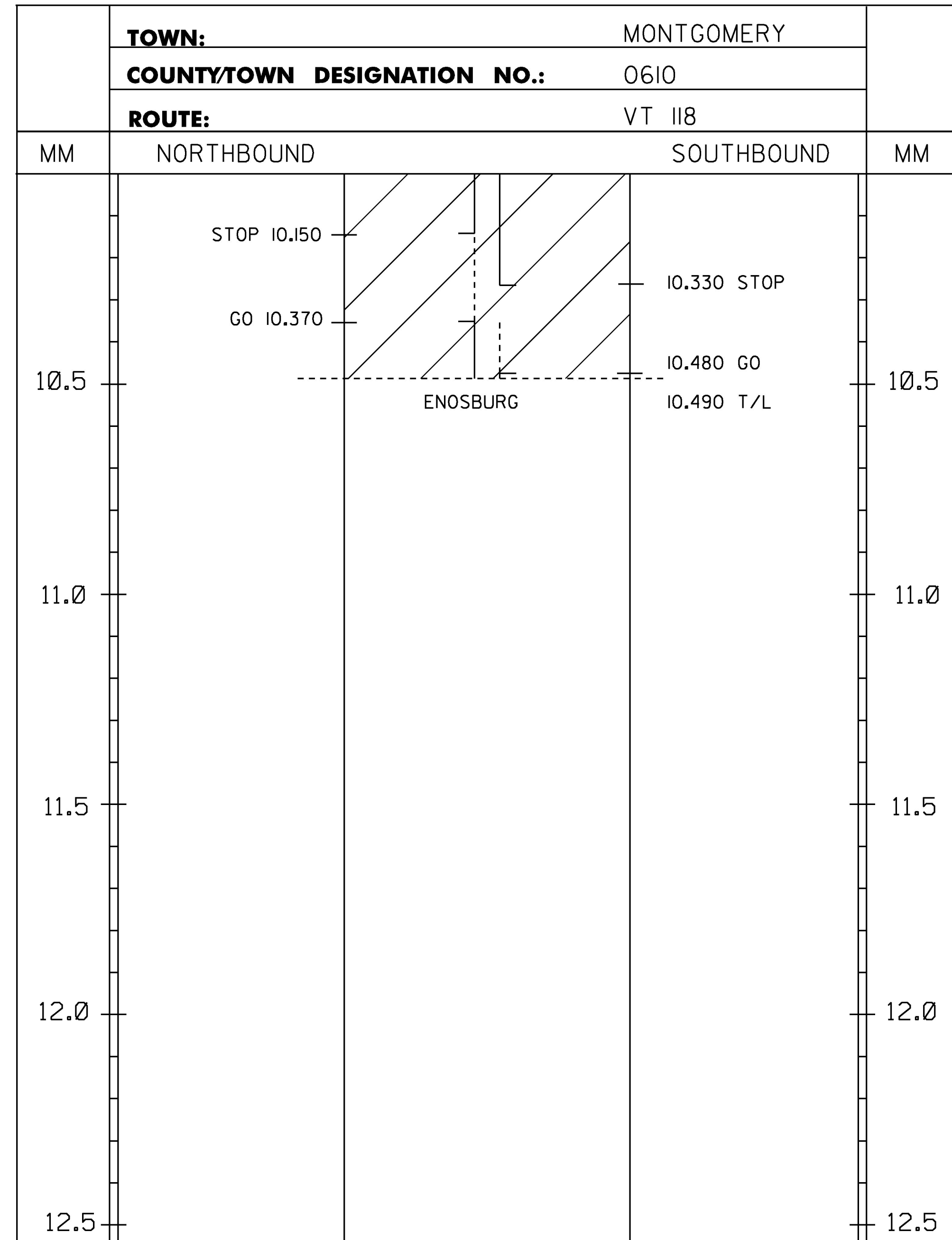
- TWBH-THROUGHWAY BEGINS HERE
- TWEH-THROUGHWAY ENDS HERE
- SHB-STATE HIGHWAY BEGINS
- SHE-STATE HIGHWAY ENDS
- SL-SPEED LIMIT
- SA - STATE AID TOWN HIGHWAY
- T/L-TOWN LINE
- C/3 - CLASS 3 TOWN HIGHWAY
- C/4 - CLASS 4 TOWN HIGHWAY

**NOTES:**

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

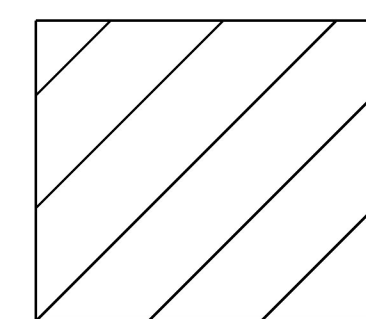
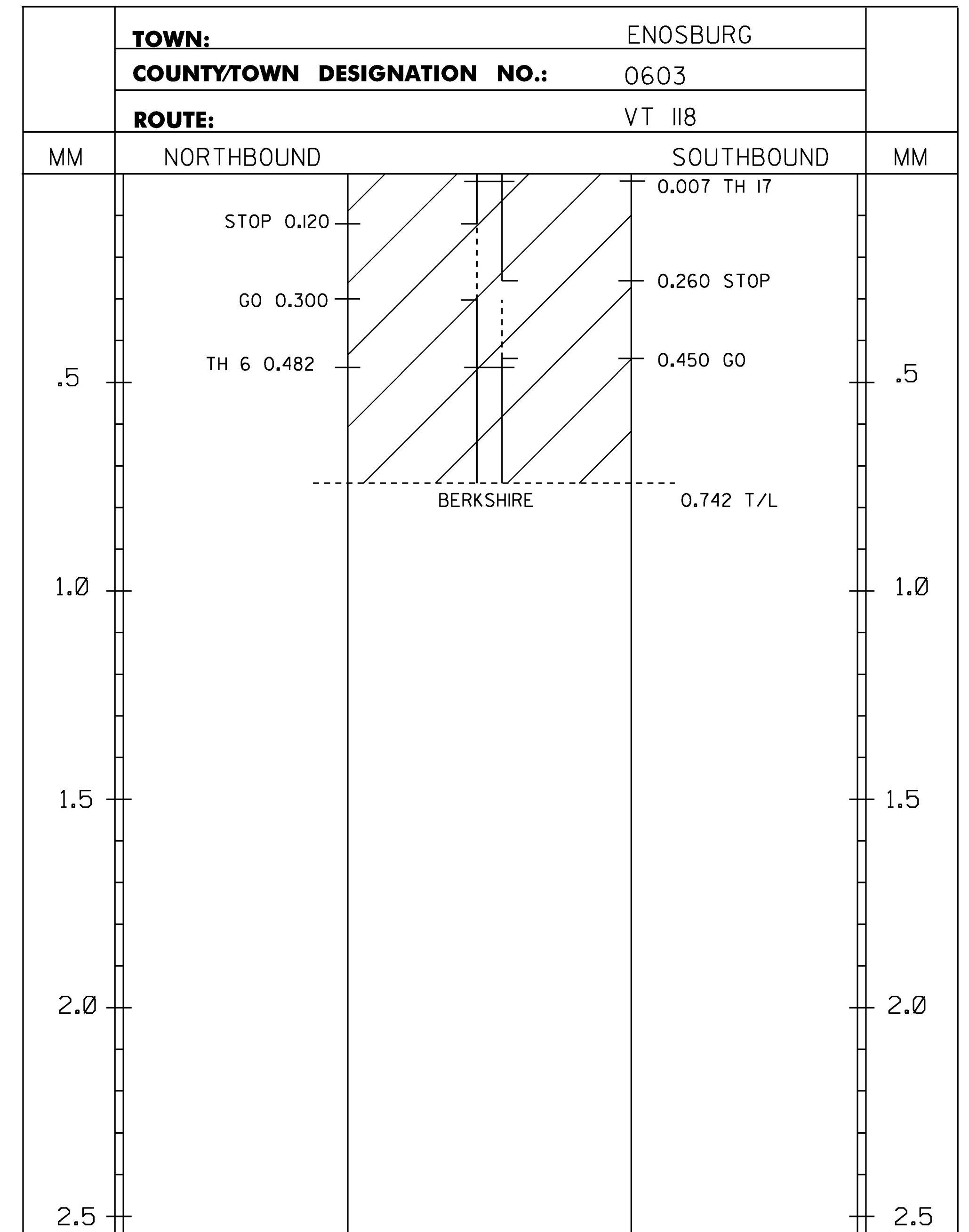
PROJECT NAME: BELVIDERE - BERKSHIRE	
PROJECT NUMBER: STP SURF(53)	
FILE NAME: I4v204\pi4v204.dgn\pi4v204_29.I	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
CENTERLINE MARKING LAYOUT SHEET 3	SHEET 29 OF 45

**NOT TO SCALE**



TEMPORARY 4 INCH WHITE LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH WHITE LINE, POLYUREA)(28 MIL)  
MM 10.000 - MM 10.490 LT & RT (EDGE LINES)  
MM 0.000 - MM 0.742 LT & RT (EDGE LINES)  
(WITH BREAKS OR RADII AT TOWN HIGHWAYS)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH YELLOW LINE, POLYUREA)(28 MIL)  
MM 10.000 - MM 10.150 SOLID LT & RT  
MM 10.150 - MM 10.330 SOLID LT, DASHED RT  
MM 10.330 - MM 10.370 DASHED CL  
MM 10.370 - MM 10.480 DASHED LT, SOLID RT  
MM 10.480 - MM 10.490 SOLID LT & RT  
MM 0.000 - MM 0.120 SOLID LT & RT  
MM 0.120 - MM 0.260 SOLID LT, DASHED RT  
MM 0.260 - MM 0.300 DASHED CL  
MM 0.300 - MM 0.450 DASHED LT, SOLID RT  
MM 0.450 - MM 0.742 SOLID LT & RT  
(WITH CL BREAKS AT TOWN HIGHWAYS)



PROJECT AREA

**LEGEND**

- TWBH-THROUGHWAY BEGINS HERE
- TWEH-THROUGHWAY ENDS HERE
- SHB-STATE HIGHWAY BEGINS
- SHE-STATE HIGHWAY ENDS
- SL-SPEED LIMIT
- SA - STATE AID TOWN HIGHWAY
- T/L-TOWN LINE
- C/3 - CLASS 3 TOWN HIGHWAY
- C/4 - CLASS 4 TOWN HIGHWAY

**NOTES:**

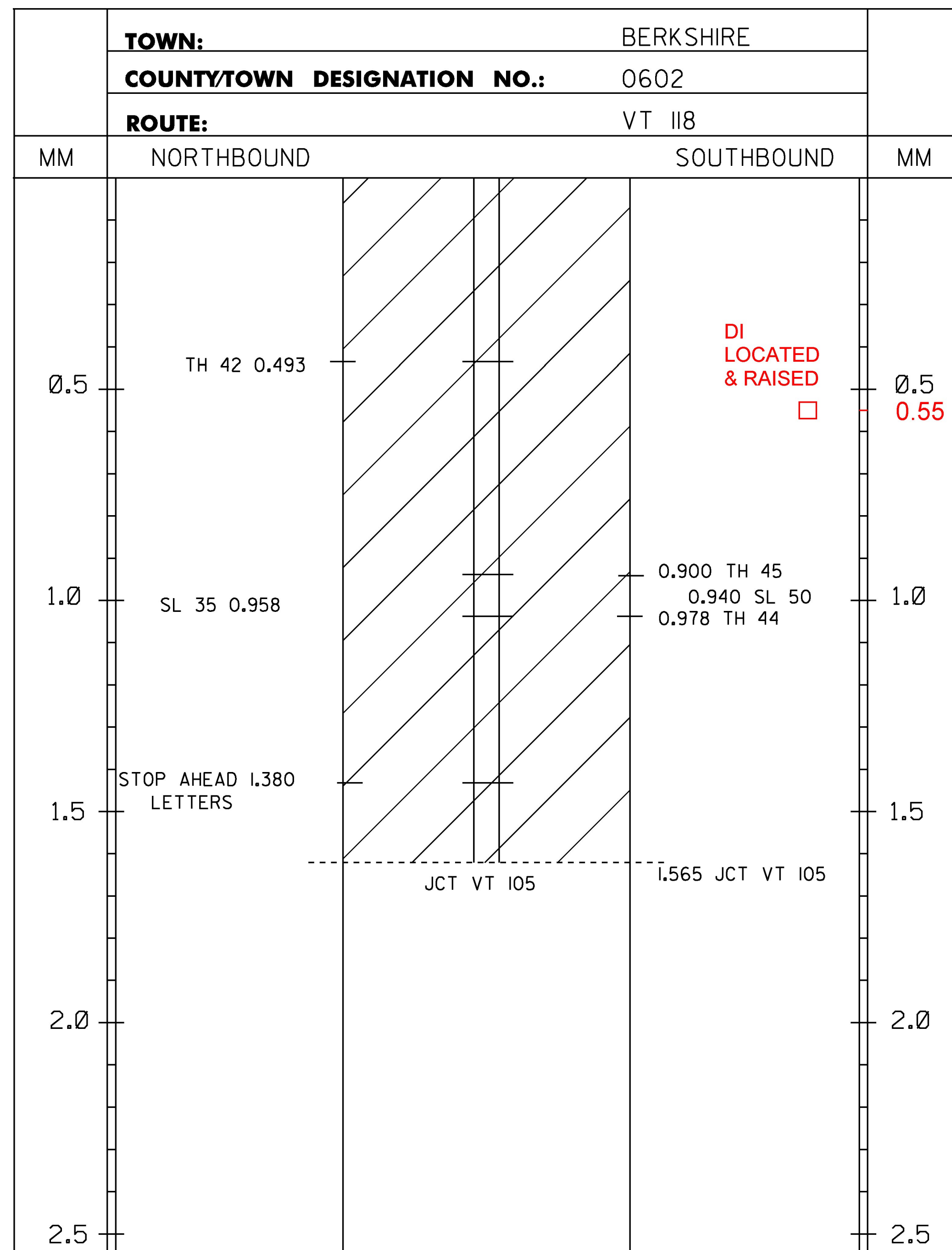
1. THIS SHEET TO BE USED FOR THE LAYOUT OF ALL CENTERLINE PAVEMENT MARKINGS.  
THE ENGINEER MAY CONTACT KEITH SWEET, PAVEMENT MARKING SUPERVISOR AT  
(802) 828-5573 FOR ASSISTANCE LAYING OUT THE CENTERLINE DURING CONSTRUCTION.

PROJECT NAME: BELVIDERE - BERKSHIRE  
PROJECT NUMBER: STP SURF(53)

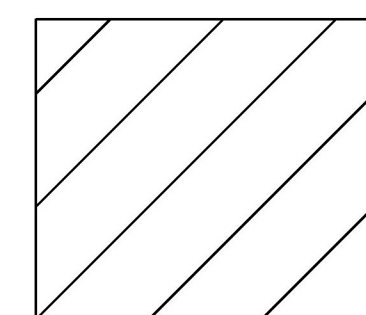
FILE NAME: I4v204\pi4v204.dgn\pi4v204_30.I PLOT DATE: 04-NOV-2015  
PROJECT LEADER: M. FOWLER DRAWN BY: K. LOCKE  
DESIGNED BY: K. LOCKE CHECKED BY: M. FOWLER  
CENTERLINE MARKING LAYOUT SHEET 4 SHEET 30 OF 45

**NOT TO SCALE**

# TOWN/STATE HIGHWAY INVENTORY FOR PAVING & MARKING



TOWN/STATE HIGHWAY NAME	LOCATION MM	MAINLINE CENTERLINE BREAK	MAINLINE EDGE LINE BREAK	TH CENTERLINE	TH EDGE LINE	TH STOP BAR	TH STOP LETTERS
MONTGOMERY							
TH 35 NUTTING RD	2.361 RT	YES	YES	YES	YES	YES	YES
TH 8 SOUTH BRANCH RD	2.810 LT	YES	YES	NO	NO	NO	NO
TH 28 REAGAN RD	2.863 RT	YES	YES	YES	YES	YES	YES
TH 34 SUNDELL RD	2.935 LT	NO	NO	NO	NO	NO	NO
TH 33 GIBOU RD	3.974 LT	YES	YES	YES	YES	YES	YES
TH 43 SOUTH BROOK RD	4.043 LT	YES	YES	NO	NO	NO	NO
TH 43 SOUTH BROOK RD	4.350 LT	YES	YES	NO	NO	NO	NO
TH 2 NOTCH RD (VT 58)	5.585 RT	YES	YES	YES	YES	YES	YES
TH 26 GRANNY GRUNTS RD	5.585 LT	YES	YES	NO	NO	NO	NO
VT 242	5.623 RT	YES	YES	-	-	-	-
TH 5 TROUT RIVER RD	5.713 LT	YES	YES	NO	NO	NO	NO
TH 5 RIVER STREET	5.882 LT	YES	YES	NO	NO	NO	NO
TH 6 SCHOOL DRIVE	6.491 RT	YES	YES	YES	YES	YES	YES
TH 13 DREAMER'S RD	5.231 RT	YES	YES	NO	YES	YES	YES
TH 41 VINCENTS BRIDGE RD	6.173 RT	NO	NO	NO	NO	NO	NO
TH 1 FULLER BRIDGE RD	8.008 RT	YES	YES	YES	YES	YES	YES
TH 39	8.065 RT	YES	YES	YES	YES	YES	YES
TH 49 DEUSO RD	8.050 RT	NO	NO	NO	NO	NO	NO
TH 42 COMSTOCK BR RD	8.104 LT	YES	YES	YES	YES	YES	YES
TH 47 BANK RD	8.249 LT	YES	YES	NO	NO	NO	NO
TH 42 COMSTOCK BR RD	8.369 LT	YES	YES	YES	YES	YES	YES
TH 12 HILL WEST RD	8.476 LT	YES	YES	YES	YES	YES	YES
TH 11 WEST HILL RD	8.528 LT	YES	YES	YES	YES	YES	YES
TH 4 LONGLEY BRIDGE RD	9.090 LT	YES	YES	YES	NO	YES	YES
ENOSBURG							
TH 17 HOPKINS BRIDGE RD	0.007 RT	YES	YES	YES	YES	YES	YES
TH 6 PRIVE HILL RD	0.482 LT	YES	YES	YES	YES	YES	YES
BERKSHIRE							
TH 42 DEMARIS RD	0.493 RT	YES	YES	YES	YES	YES	YES
TH 45 WOODARD NEIGHB	0.900 LT	YES	YES	YES	NO	YES	YES
TH 44 PERLEY RD	0.978 LT	YES	YES	YES	YES	YES	YES



PROJECT AREA

TEMPORARY 4 INCH WHITE LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH WHITE LINE, POLYUREA)(28 MIL)  
MM 0.000 - MM 1.565 LT & RT (EDGE LINES)  
(WITH BREAKS OR RADIAT TOWN HIGHWAYS)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
SPECIAL PROVISION (DURABLE 4 INCH YELLOW LINE, POLYUREA)(28 MIL)

MM 0.000 - MM 1.565 SOLID LT & RT  
(WITH CL BREAKS AT TOWN HIGHWAYS)

TEMPORARY LETTER OR SYMBOL, PAINT  
DURABLE LETTER OR SYMBOL, OPTION ITEM

MM 1.380 RT - "STOP AHEAD" (9 EACH)  
MM 1.556 RT - "STOP" (4 EACH)

TEMPORARY 24 INCH STOP BAR, PAINT  
DURABLE 24 INCH STOP BAR, OPTION ITEM

MM 1.556 RT

CHANGING ELEVATION OF DI, CB OR MH  
MM 0.010 LT (DI)

**NOTES:**

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

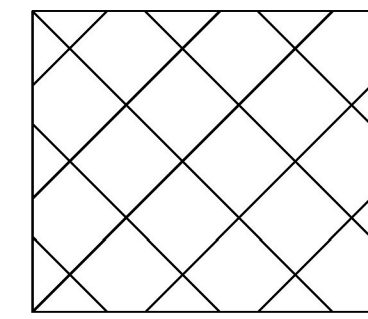
**NOT TO SCALE**

PROJECT NAME: BELVIDERE - BERKSHIRE  
PROJECT NUMBER: STP SURF(53)

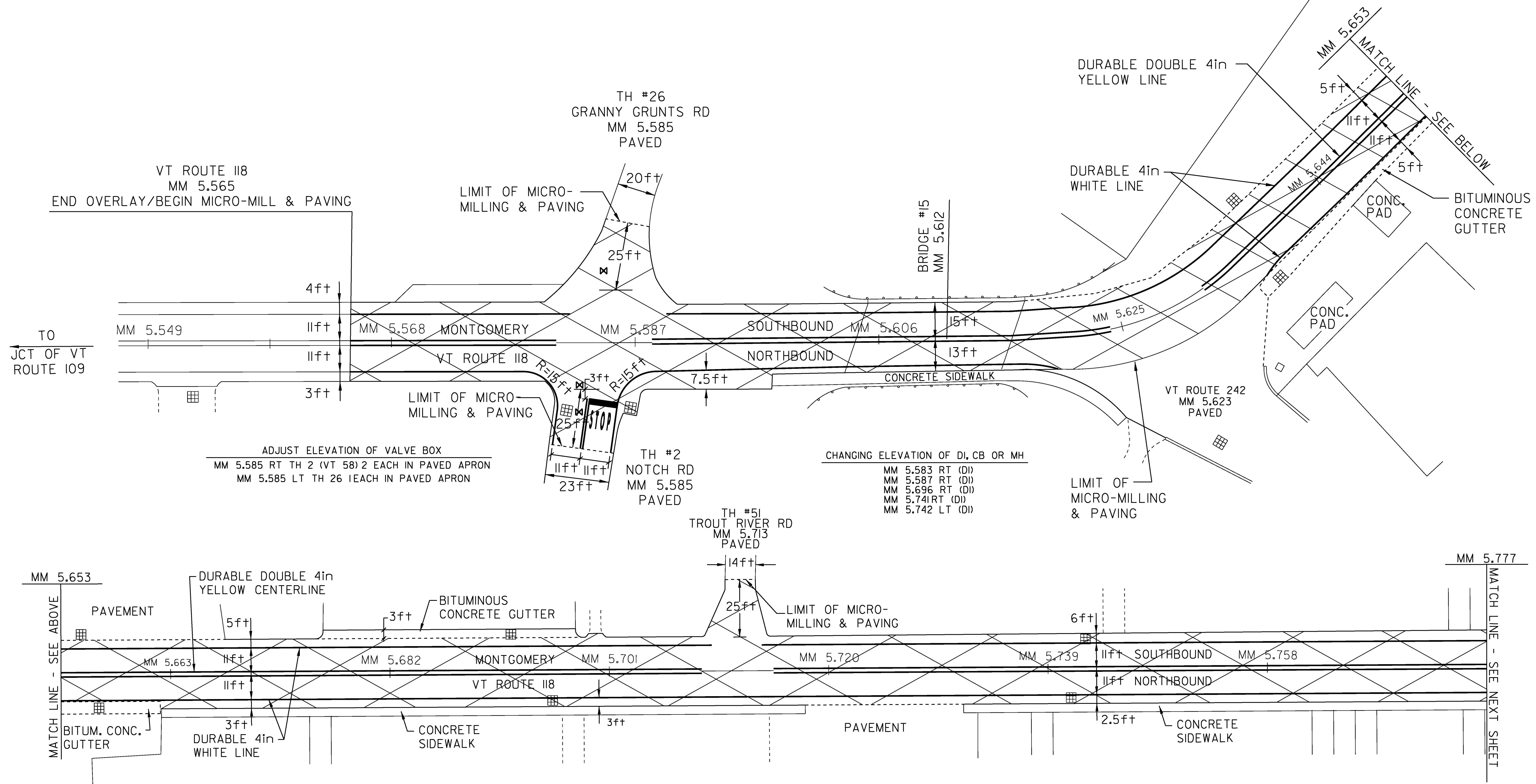
FILE NAME: I4v204\p14v204.dgn\p14v204_31.l PLOT DATE: 04-NOV-2015  
PROJECT LEADER: M. FOWLER DRAWN BY: K. LOCKE  
DESIGNED BY: K. LOCKE CHECKED BY: M. FOWLER  
CENTERLINE MARKING LAYOUT SHEET 5 SHEET 31 OF 45

**LEGEND**

- TWBH-THROUGHWAY BEGINS HERE
- TWEH-THROUGHWAY ENDS HERE
- SHB-STATE HIGHWAY BEGINS
- SHE-STATE HIGHWAY ENDS
- SL-SPEED LIMIT
- SA - STATE AID TOWN HIGHWAY
- T/L-TOWN LINE
- C/3 - CLASS 3 TOWN HIGHWAY
- C/4 - CLASS 4 TOWN HIGHWAY



MICRO-MILL AREA

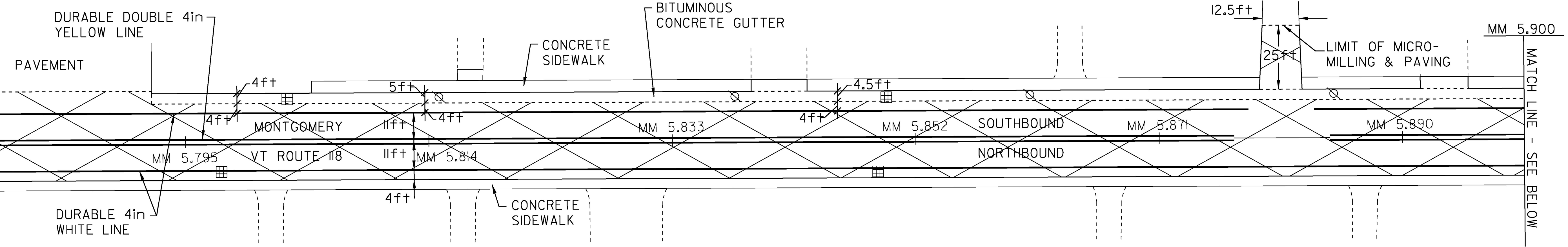


NOT TO SCALE

PROJECT NAME: BELVIDERE - BERKSHIRE	
PROJECT NUMBER: STP SURF(53)	
FILE NAME: I4v204\pi4v204.dgn\pi4v204_32.1	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
SPECIAL MICRO-MILLING DETAILS SHEET 1	SHEET 32 OF 45

MM 5.777

MATCH LINE - SEE PREVIOUS SHEET



TH #51  
RIVER ST  
MM 5.882  
PAVED

MM 5.900

MATCH LINE - SEE BELOW

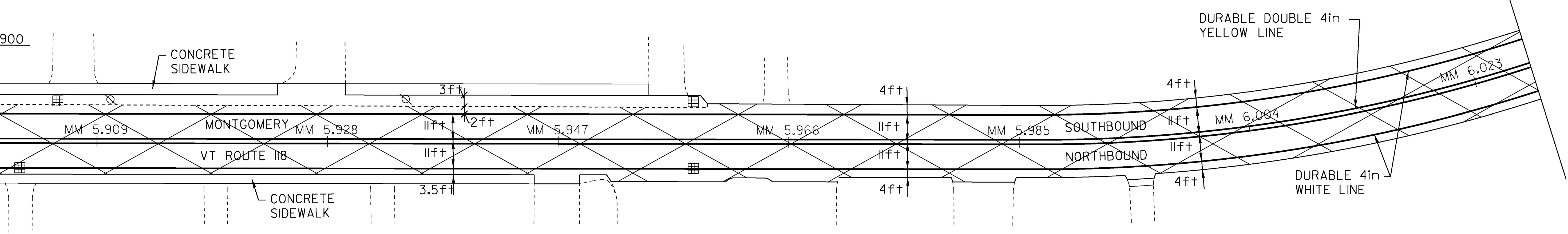
TO  
BELVIDERE

CHANGING ELEVATION OF DI, CB OR MH

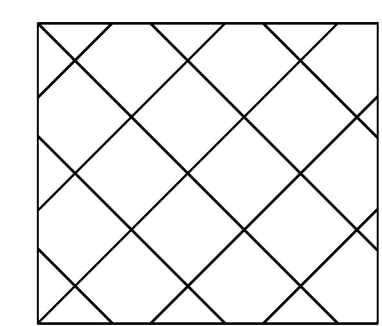
- MM 5.798 RT (DI)
- MM 5.849 RT (DI)
- MM 5.903 RT (DI)
- MM 5.958 RT (DI)

MM 5.900

MATCH LINE - SEE ABOVE



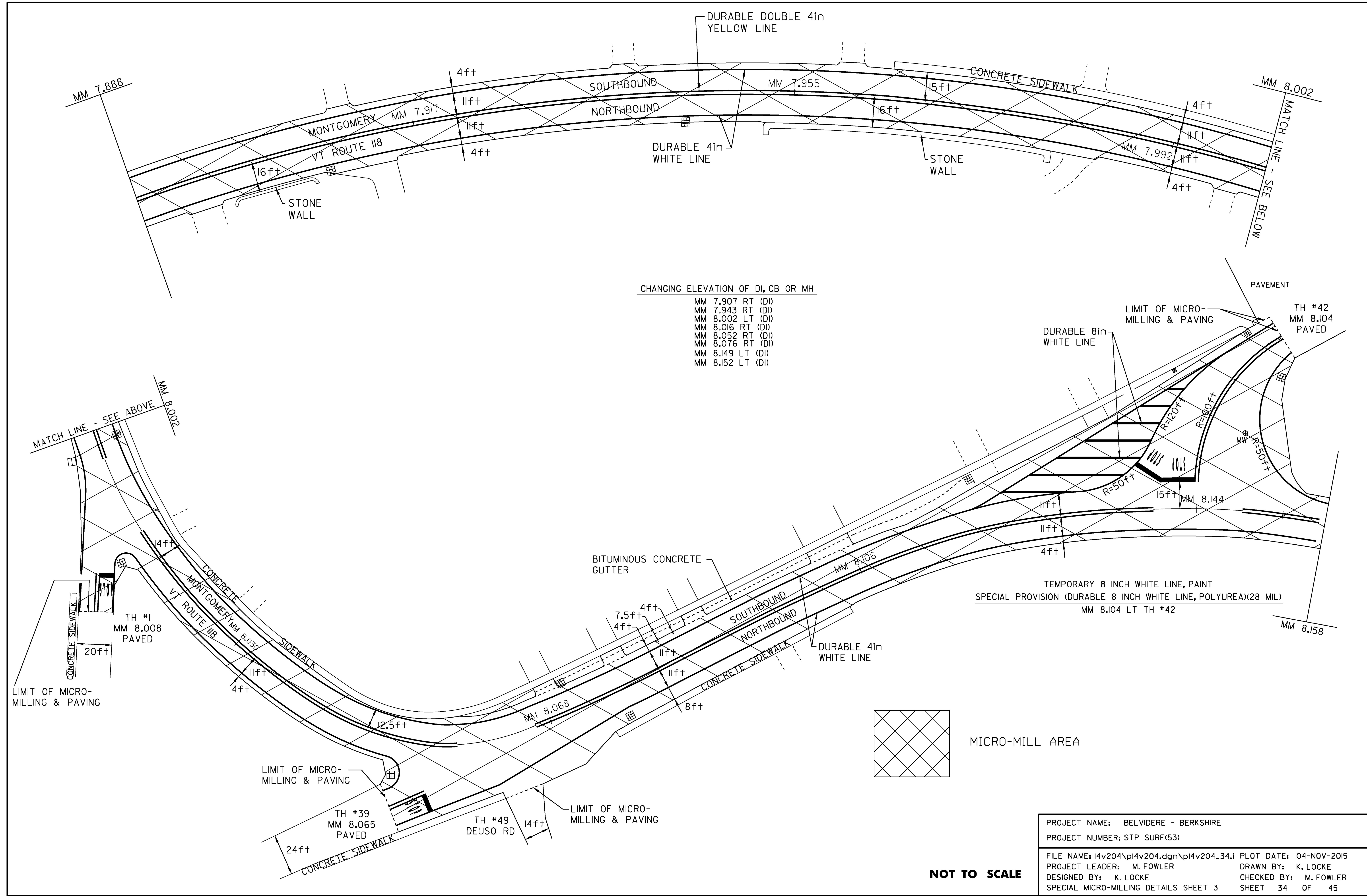
MM 6.027



MICRO-MILL AREA

**NOT TO SCALE**

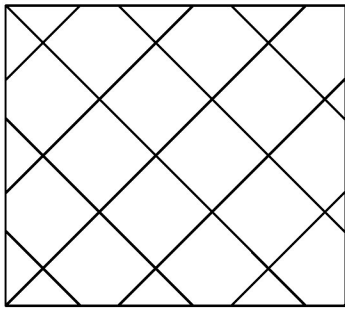
PROJECT NAME: BELVIDERE - BERKSHIRE	
PROJECT NUMBER: STP SURF(53)	
FILE NAME: I4v204\pi4v204.dgn\pi4v204_33.1	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
SPECIAL MICRO-MILLING DETAILS SHEET 2	SHEET 33 OF 45



CHANGING ELEVATION OF DI, CB OR MH

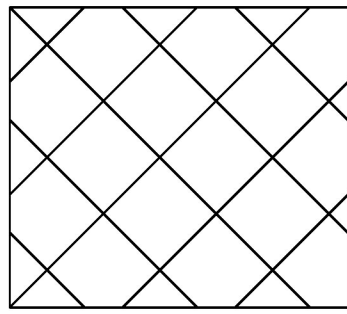
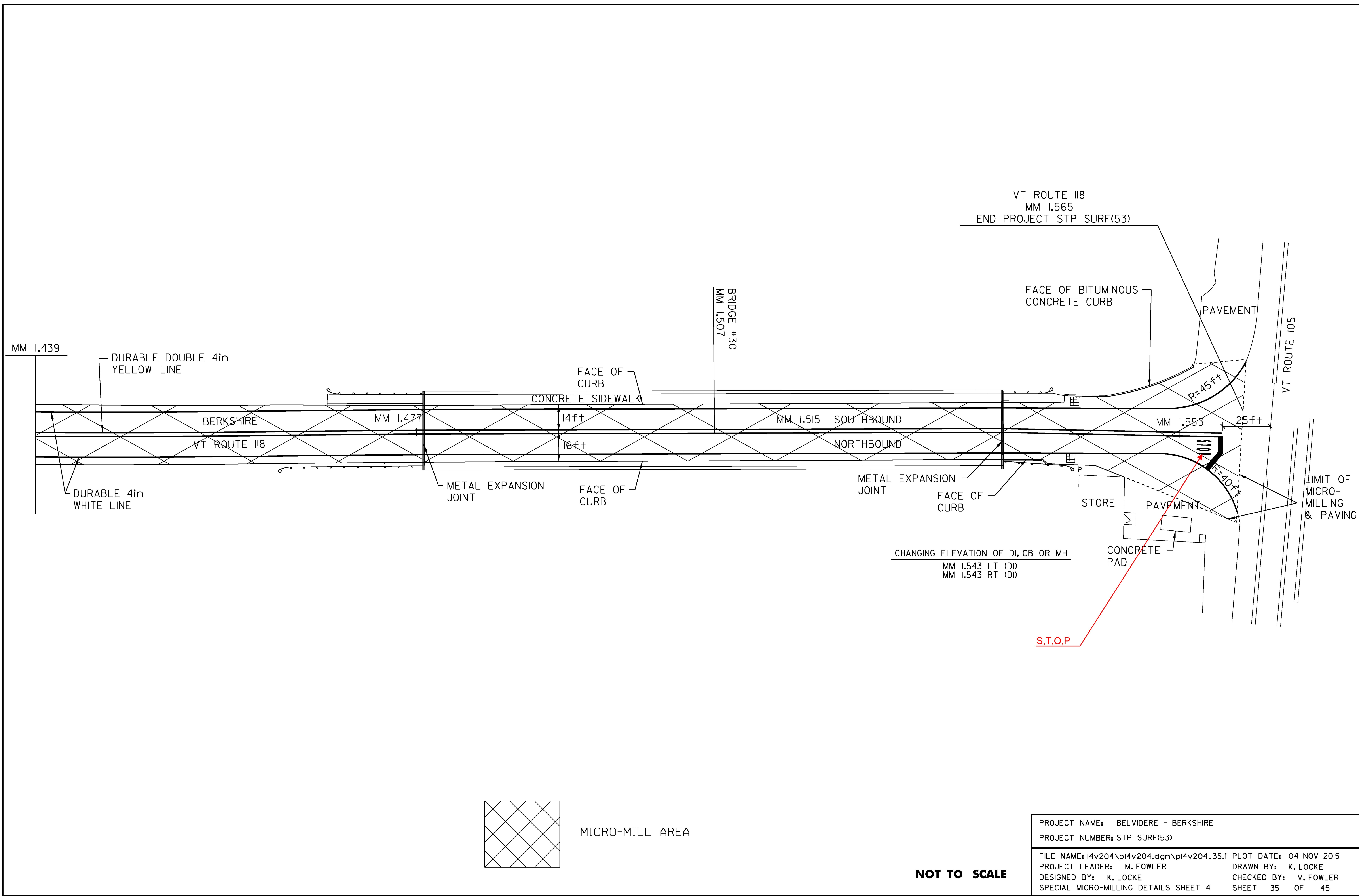
MM 7.907	RT	(DI)
MM 7.943	RT	(DI)
MM 8.002	LT	(DI)
MM 8.016	RT	(DI)
MM 8.052	RT	(DI)
MM 8.076	RT	(DI)
MM 8.149	LT	(DI)
MM 8.152	LT	(DI)

TEMPORARY 8 INCH WHITE LINE, PAINT  
 SPECIAL PROVISION (DURABLE 8 INCH WHITE LINE, POLYUREA)(28 MIL)  
 MM 8.104 LT TH #42

 MICRO-MILL AREA

**NOT TO SCALE**

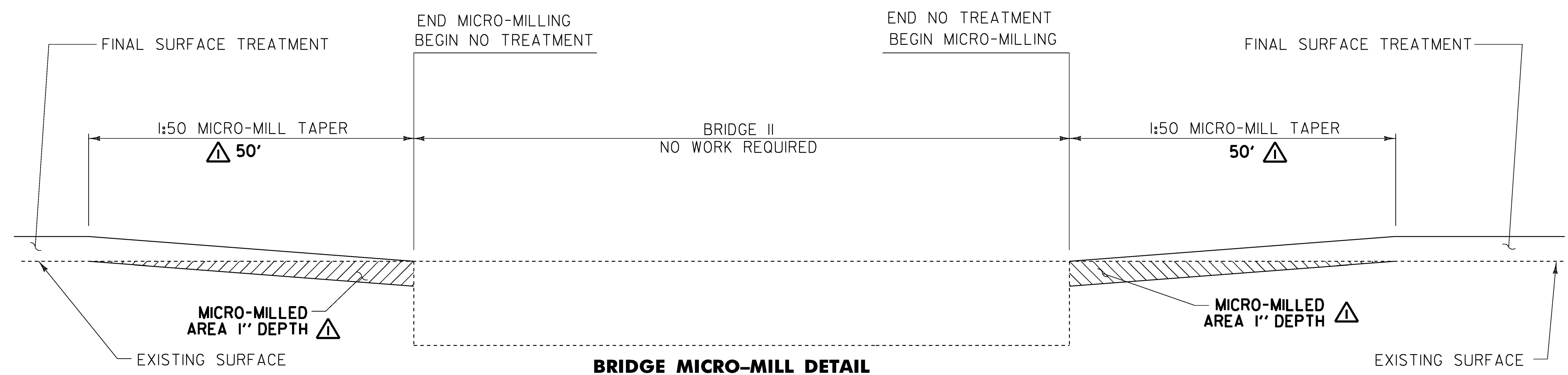
PROJECT NAME: BELVIDERE - BERKSHIRE	
PROJECT NUMBER: STP SURF(53)	
FILE NAME: I4v204\pi4v204.dgn\pi4v204_34.1	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
SPECIAL MICRO-MILLING DETAILS SHEET 3	SHEET 34 OF 45



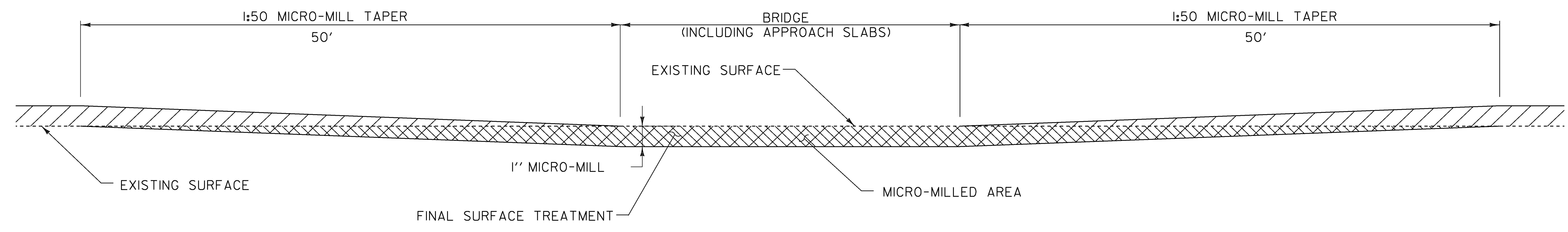
MICRO-MILL AREA

**NOT TO SCALE**

PROJECT NAME: BELVIDERE - BERKSHIRE	
PROJECT NUMBER: STP SURF(53)	
FILE NAME: I4v204\pi4v204.dgn\pi4v204_35.1	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
SPECIAL MICRO-MILLING DETAILS SHEET 4	SHEET 35 OF 45



**BRIDGE MICRO-MILL DETAIL**  
BRIDGE II M.M. 2.260 MONTGOMERY



**BRIDGE MICRO-MILL DETAIL**  
BRIDGE 12 M.M. 2.974 MONTGOMERY

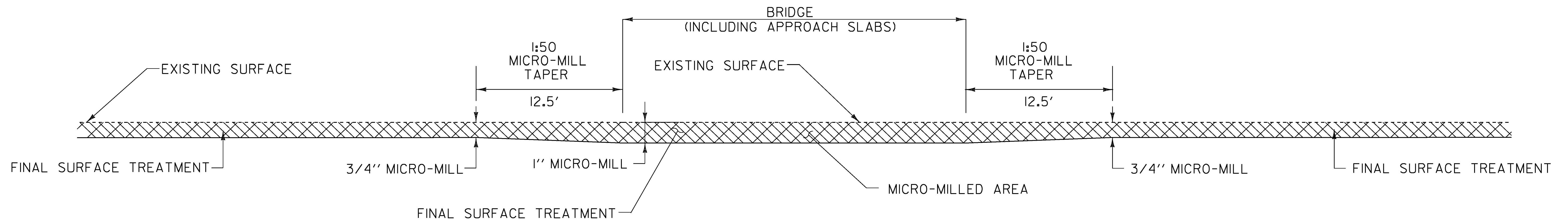
**NOTES:**

1. REFER TO ASPHALTIC PLUG JOINT DETAIL SHEET, SD-516.10. ALL NEW JOINTS WILL 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 MICRO-MILLING AND PAVING OPERATIONS OCCUR ON BRIDGE DECKS. SHOULD ANY DAMAGE OCCUR TO THE DECK OR MEMBRANE AS A RESULT OF THESE OPERATIONS THE ENGINEER SHALL CONTACT THE VTRANS CONSTRUCTION STRUCTURES ENGINEER TO PROVIDE AN ASSESSMENT OF THE DAMAGE AND RECOMMEND ANY NECESSARY REPAIRS. THE CONSTRUCTION STRUCTURES ENGINEER WILL ALSO DETERMINE IF THE DAMAGE WAS AVOIDABLE. IF THE CONTRACTOR IS DETERMINED BY THE CONSTRUCTION STRUCTURES ENGINEER TO BE AT FAULT FOR THE DAMAGE, THE RECOMMENDED REPAIRS SHALL BE COMPLETED BY THE CONTRACTOR AT NO COST TO THE STATE.

REVISION	DATE	DESCRIPTION	BY
△	01-27-16	CHANGED MICRO-MILL DEPTH TO 1" FROM 3/4". CHANGED MICRO-MILL TAPER LENGTHS.	KML

**NOT TO SCALE**

PROJECT NAME:	BELVIDERE - BERKSHIRE
PROJECT NUMBER:	STP SURF(53)
FILE NAME:	I4v204\pi4v204.dgn\pi4v204_36.1
PLOT DATE:	26-JAN-2016
PROJECT LEADER:	M. FOWLER
DRAWN BY:	K. LOCKE
DESIGNED BY:	K. LOCKE
CHECKED BY:	M. FOWLER
BRIDGE DETAIL SHEET 1	SHEET 36 OF 45



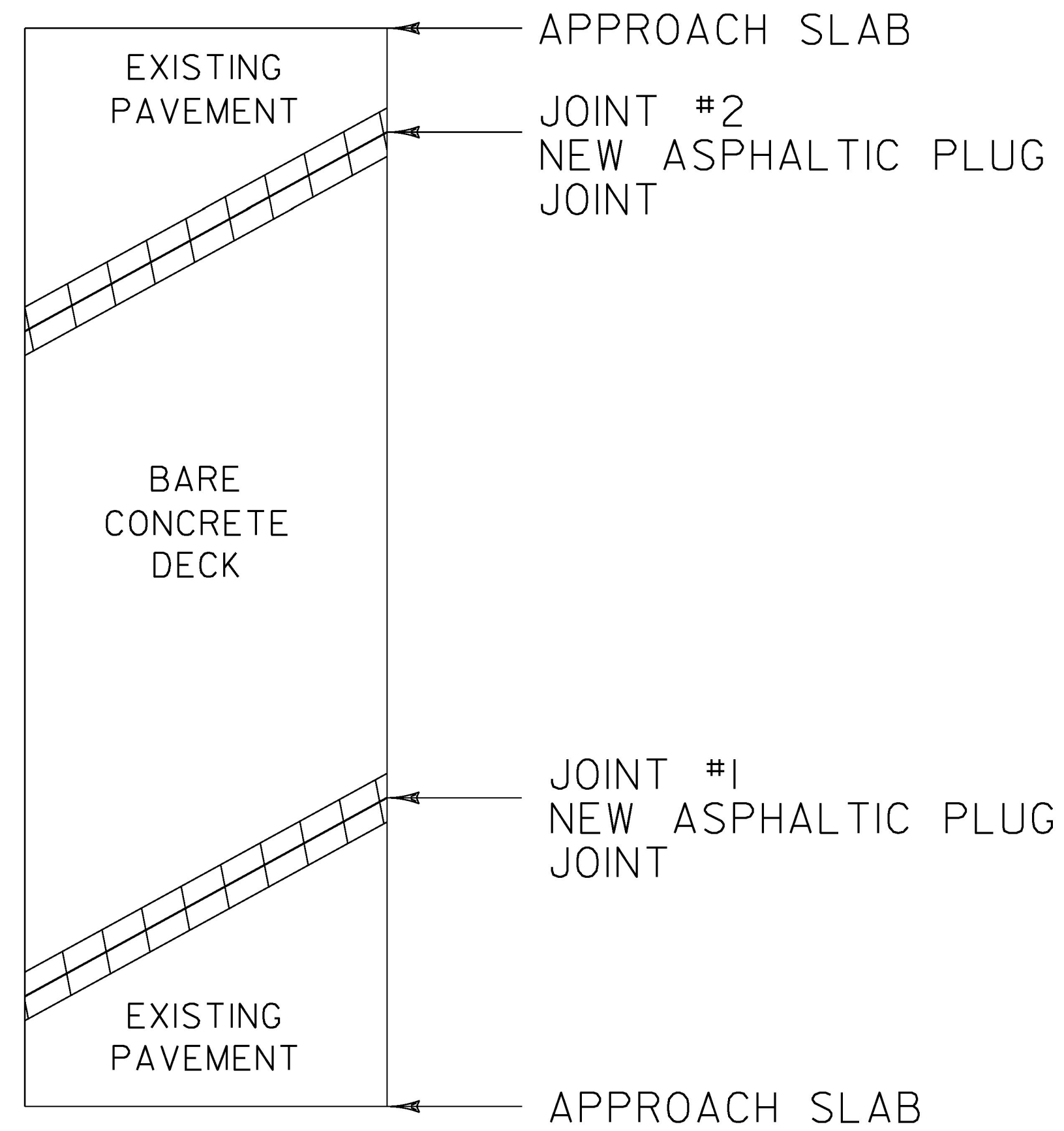
**BRIDGE MICRO-MILL DETAIL**

BRIDGE 15	M.M. 5.612	MONTGOMERY
BRIDGE 19	M.M. 8.355	MONTGOMERY
BRIDGE 20	M.M. 8.525	MONTGOMERY
BRIDGE 21	M.M. 8.691	MONTGOMERY
BRIDGE 23	M.M. 10.148	MONTGOMERY
BRIDGE 24	M.M. 0.621	ENOSBURG
BRIDGE 26	M.M. 0.639	BERKSHIRE
BRIDGE 30	M.M. 1.507	BERKSHIRE

**NOT TO SCALE**

PROJECT NAME:	BELVIDERE - BERKSHIRE
PROJECT NUMBER:	STP SURF(53)
FILE NAME: I4v204\pi4v204.dgn\pi4v204_37.I	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
BRIDGE DETAIL SHEET 2	SHEET 37 OF 45

↑  
NORTHBOUND  
DIRECTION OF TRAVEL

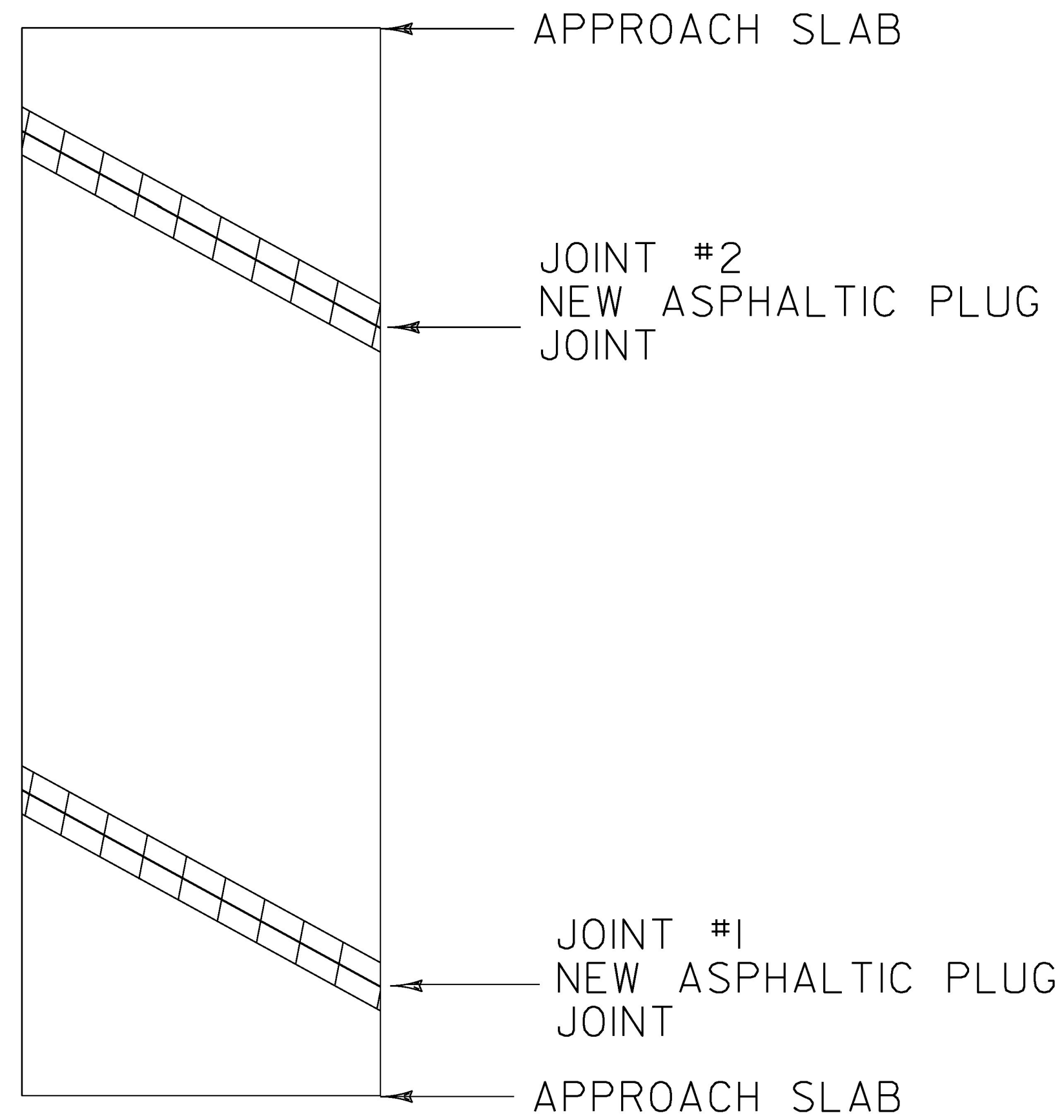


**BRIDGE 11**

MM 2.260 MONTGOMERY

LENGTH OF ASPHALTIC PLUG JOINTS:  
JOINT #1 - 45' (MM 2.255)  
JOINT #2 - 45' (MM 2.265)  
TOTAL = 90'

↑  
NORTHBOUND  
DIRECTION OF TRAVEL

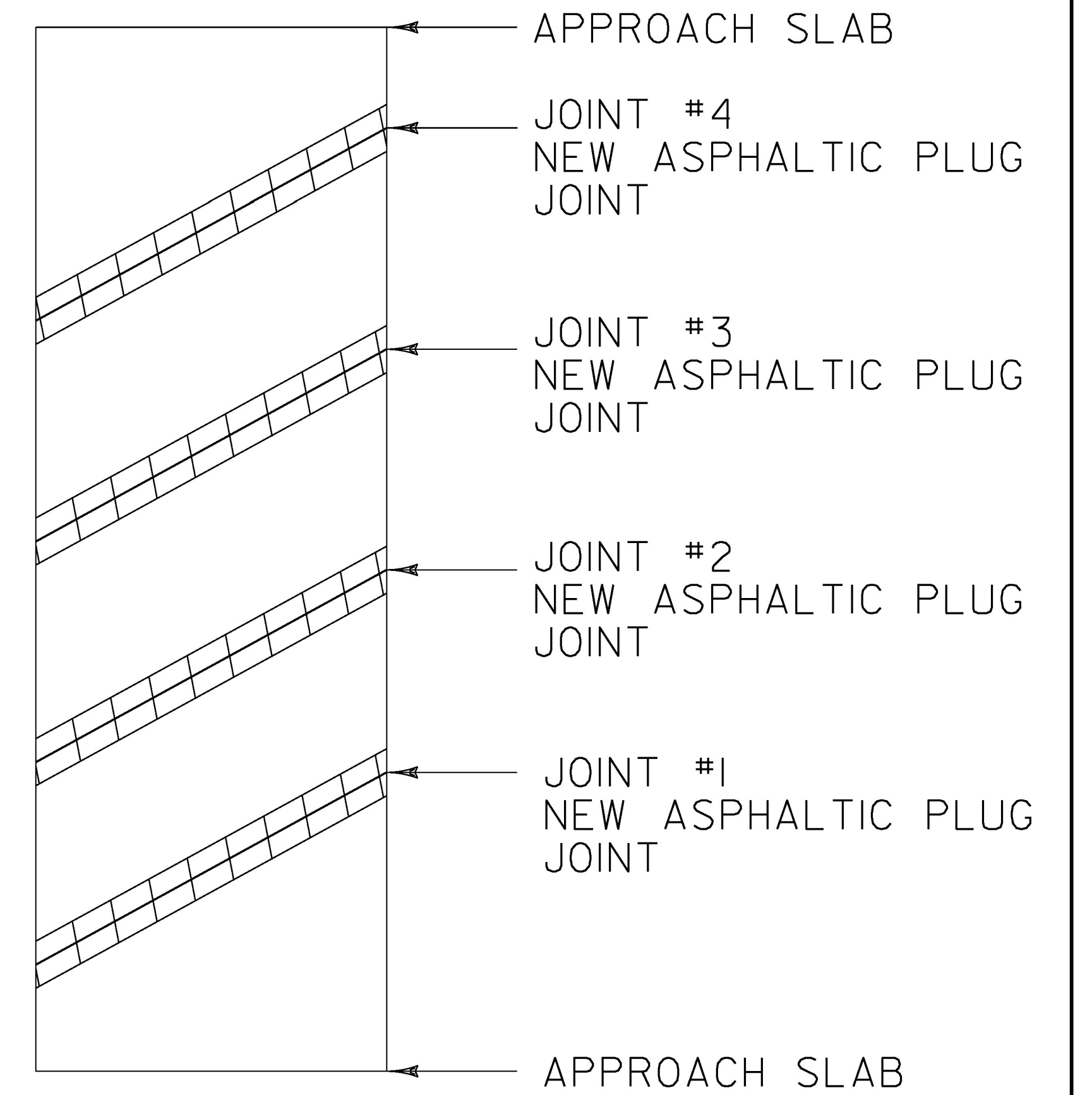


**BRIDGE 15**

MM 5.612 MONTGOMERY

LENGTH OF ASPHALTIC PLUG JOINTS:  
JOINT #1 - 29' (MM 5.604)  
JOINT #2 - 29' (MM 5.616)  
TOTAL = 58'

↑  
NORTHBOUND  
DIRECTION OF TRAVEL

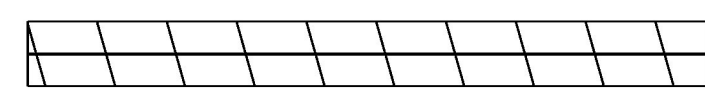


**BRIDGE 19**

MM 8.355 MONTGOMERY

LENGTH OF ASPHALTIC PLUG JOINTS:  
JOINT #1 - 34' (MM 8.341)  
JOINT #2 - 34' (MM 8.357)  
JOINT #3 - 34' (MM 8.374)  
JOINT #4 - 34' (MM 8.390)  
TOTAL = 136'

**LEGEND**

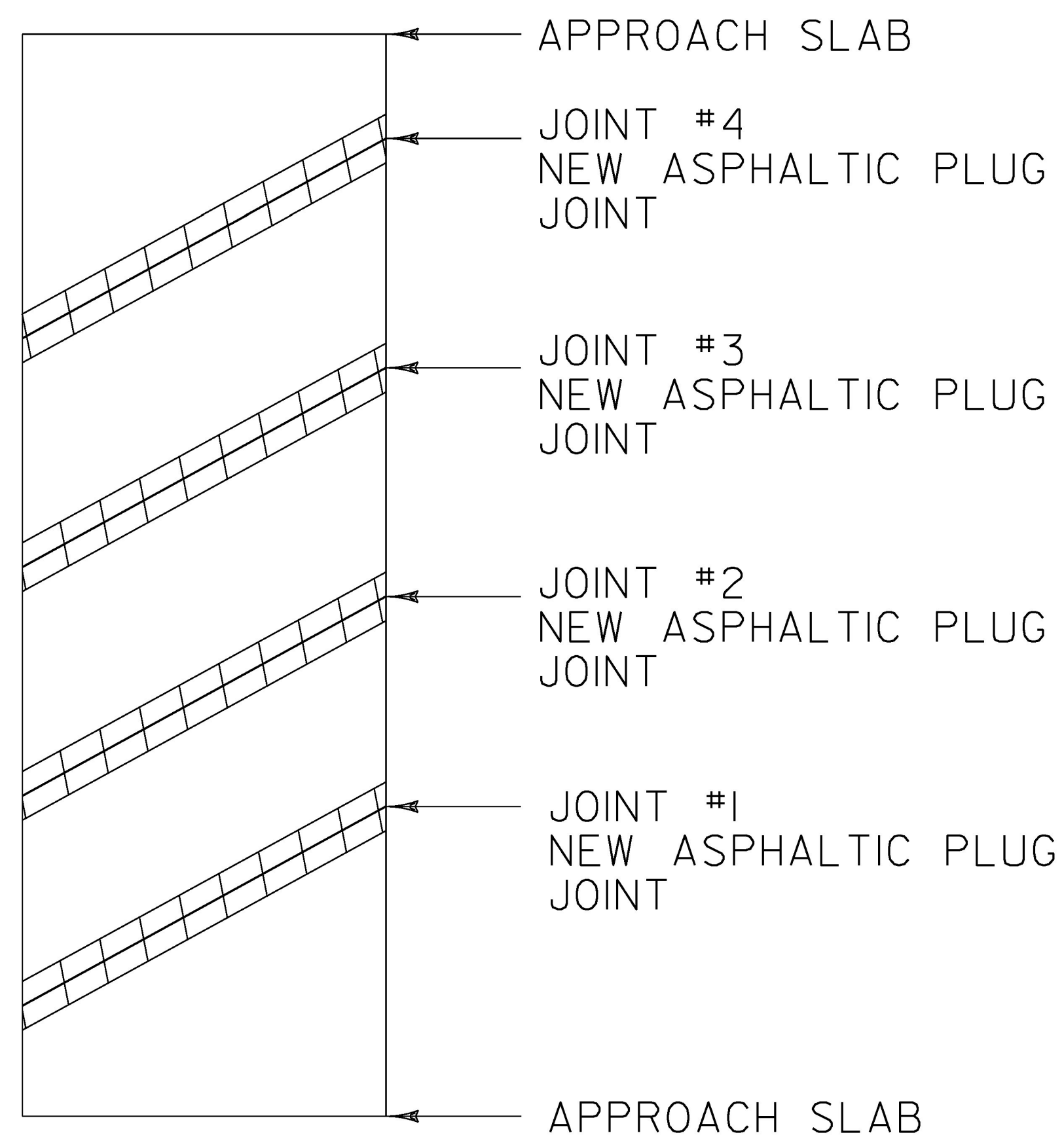


EXISTING BRIDGE JOINTS SHALL BE REPAIRED WITH ASPHALTIC PLUG JOINT

**NOT TO SCALE**

PROJECT NAME:	BELVIDERE - BERKSHIRE
PROJECT NUMBER:	STP SURF(53)
FILE NAME: I4v204\pi4v204.dgn\pi4v204_38.I	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
BRIDGE DETAIL SHEET 3	SHEET 38 OF 45

↑  
NORTHBOUND  
DIRECTION OF TRAVEL



**BRIDGE 20**

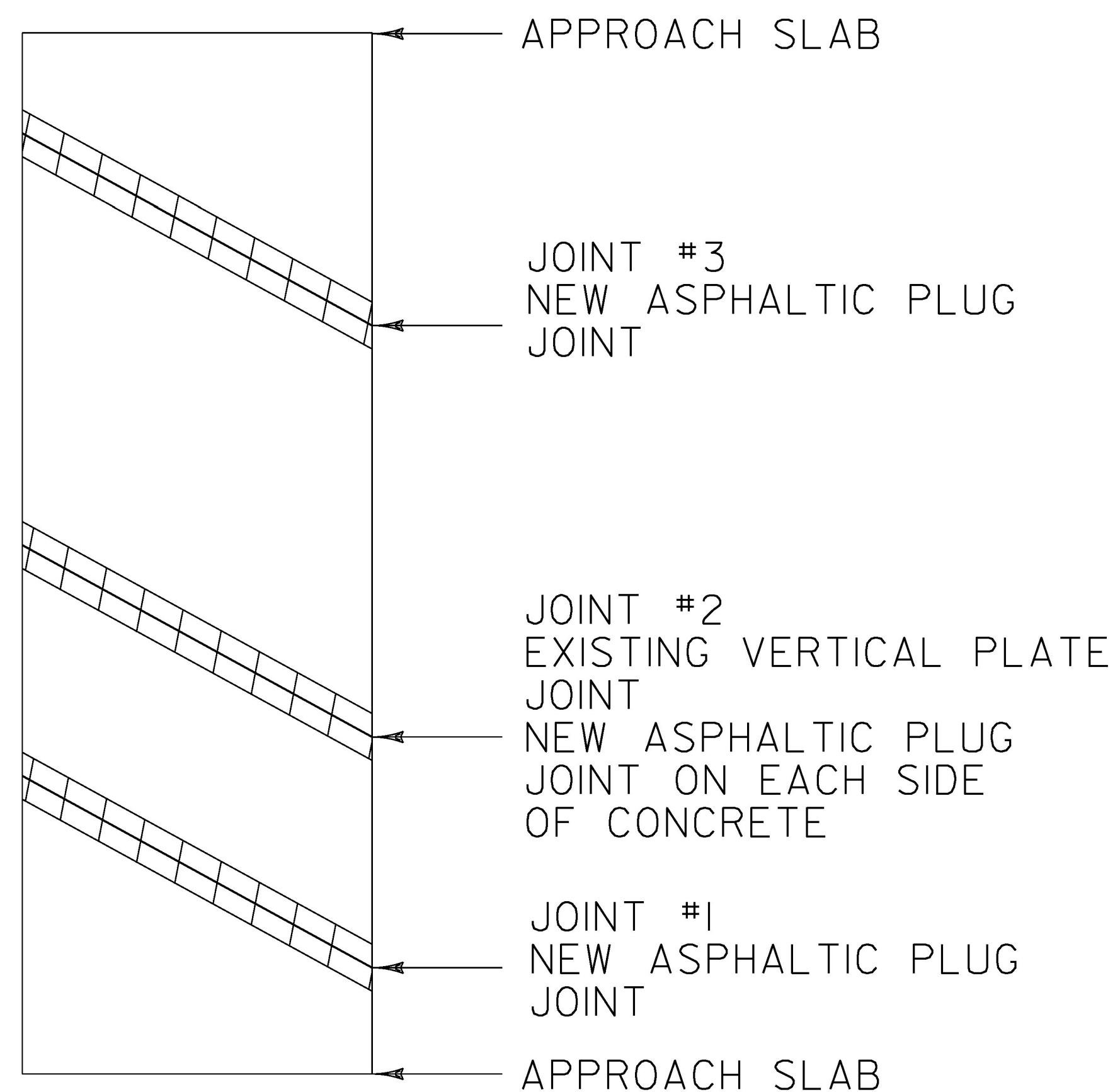
MM 8.525 MONTGOMERY

LENGTH OF ASPHALTIC PLUG JOINTS:

- JOINT #1 - 34' (MM 8.513)
- JOINT #2 - 34' (MM 8.525)
- JOINT #3 - 34' (MM 8.537)
- JOINT #4 - 34' (MM 8.549)

TOTAL = 136'

↑  
NORTHBOUND  
DIRECTION OF TRAVEL



**BRIDGE 21**

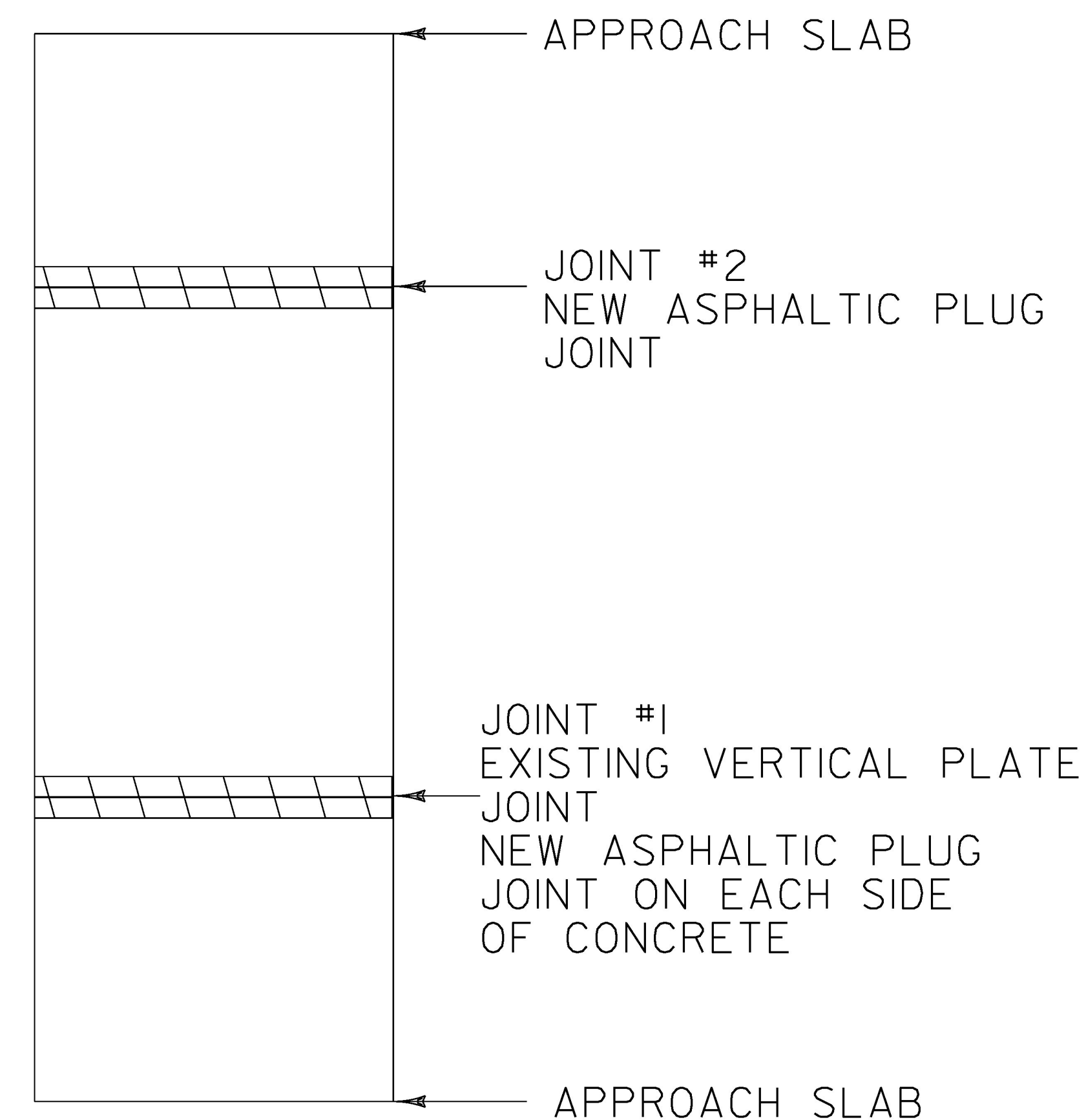
MM 8.691 MONTGOMERY

LENGTH OF ASPHALTIC PLUG JOINTS:

- JOINT #1 - 32' (MM 8.672)
- JOINT #2 - 32' X 2 = 64' (MM 8.679)
- JOINT #3 - 32' (MM 8.707)

TOTAL = 128'

↑  
NORTHBOUND  
DIRECTION OF TRAVEL



**BRIDGE 26**

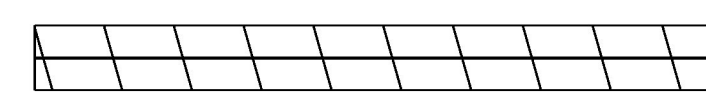
MM 0.639 BERKSHIRE

LENGTH OF ASPHALTIC PLUG JOINTS:

- JOINT #1 - 30' X 2 = 60' (MM 0.626)
- JOINT #2 - 30' (MM 0.653)

TOTAL = 90'

**LEGEND**

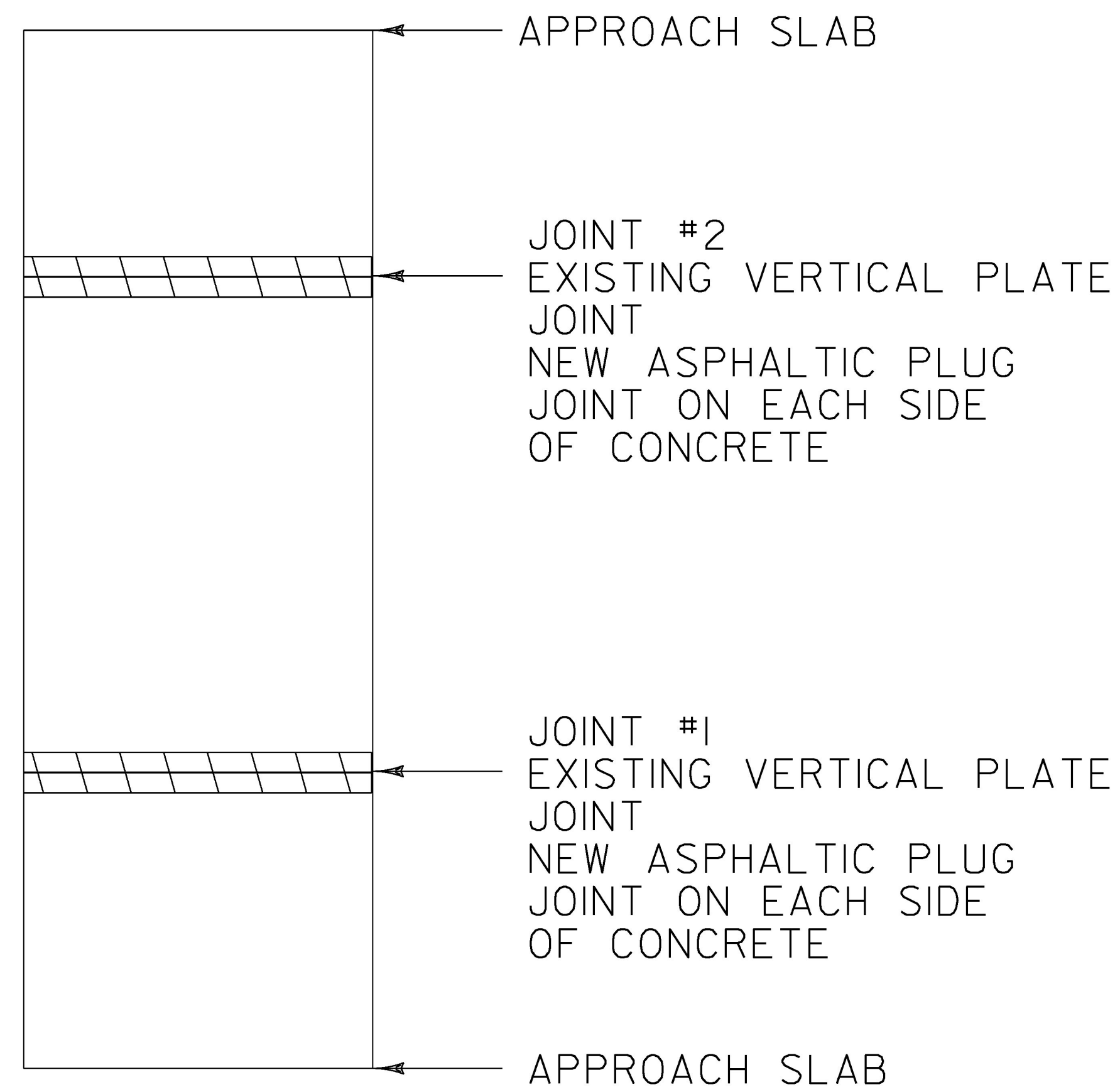


EXISTING BRIDGE JOINTS SHALL BE  
REPAIRED WITH ASPHALTIC PLUG JOINT

**NOT TO SCALE**

PROJECT NAME:	BELVIDERE - BERKSHIRE
PROJECT NUMBER:	STP SURF(53)
FILE NAME: I4v204\pi4v204.dgn\pi4v204_39.I	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
BRIDGE DETAIL SHEET 4	SHEET 39 OF 45

↑  
NORTHBOUND  
DIRECTION OF TRAVEL

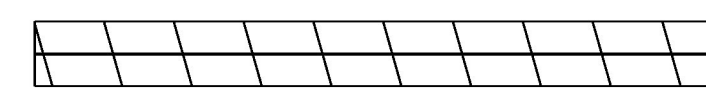


**BRIDGE 30**

MM 1.507 BERKSHIRE

LENGTH OF ASPHALTIC PLUG JOINTS:  
 JOINT #1 - 30' X 2 = 60' (MM 1.481)  
 JOINT #2 - 30' X 2 = 60' (MM 1.536)  
 TOTAL = 120'

**LEGEND**

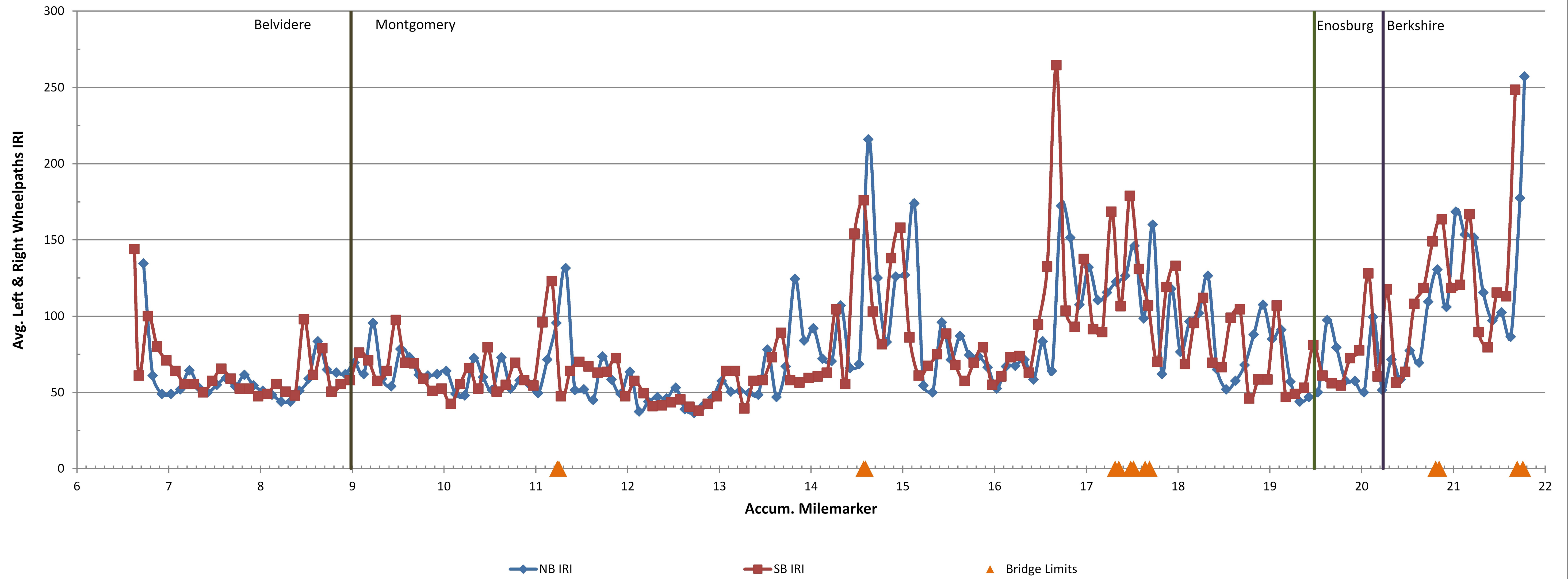


EXISTING BRIDGE JOINTS SHALL BE REPAIRED WITH ASPHALTIC PLUG JOINT

**NOT TO SCALE**

PROJECT NAME:	BELVIDERE - BERKSHIRE
PROJECT NUMBER:	STP SURF(53)
FILE NAME: I4v204\pi4v204.dgn\pi4v204_40.I	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
BRIDGE DETAIL SHEET 5	SHEET 40 OF 45

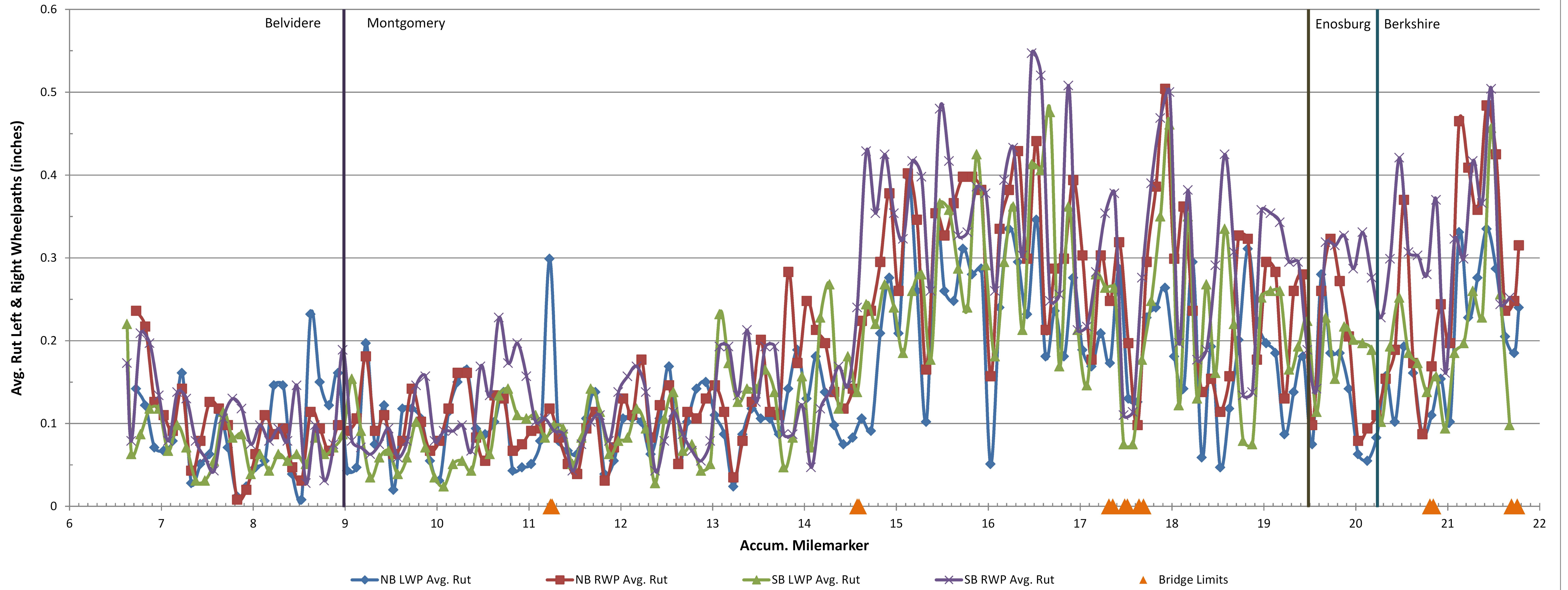
**VT 118 Belvidere-Berkshire STP SURF(53) PreCon IRI**  
 Profiled 10/1/2015  
 NB Avg. IRI = 79.2 SB Avg. IRI = 80.3



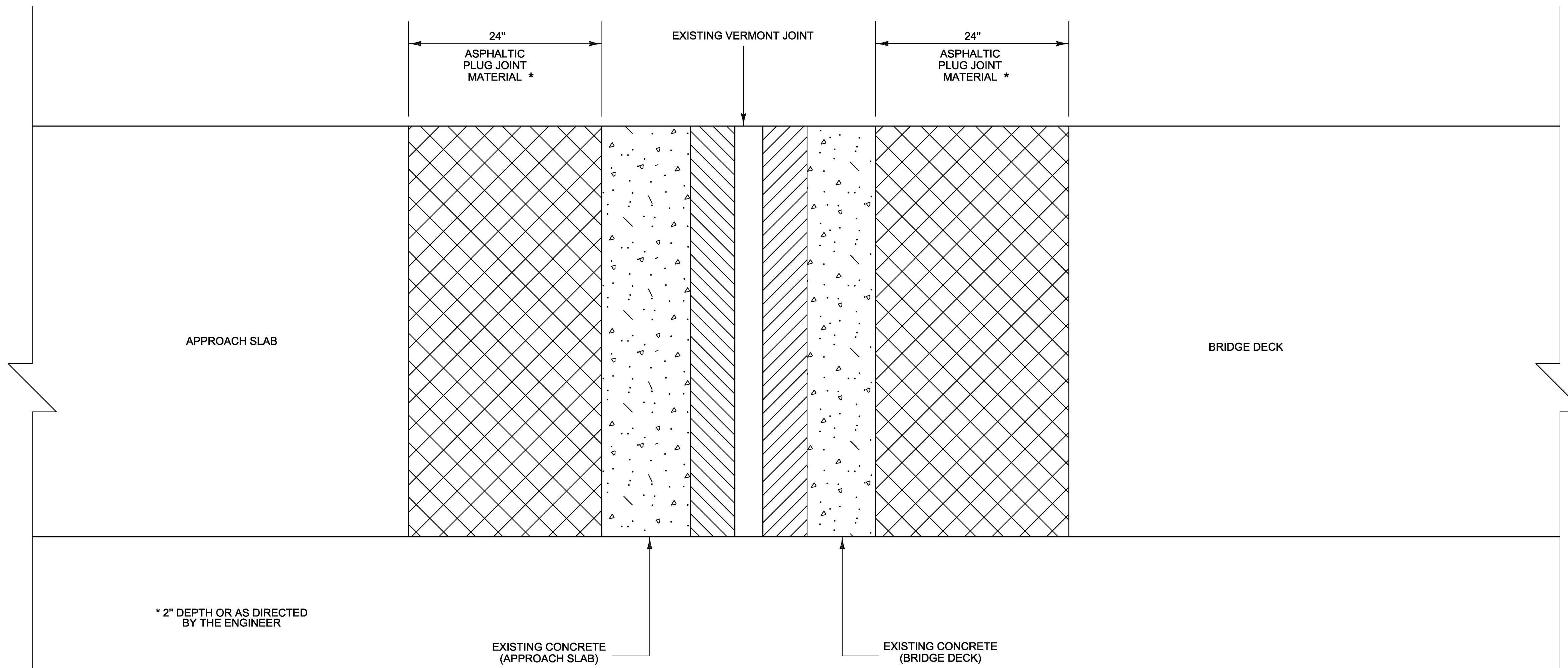
**FOR INFORMATIONAL PURPOSES ONLY**

PROJECT NAME:	BELVIDERE - BERKSHIRE		
PROJECT NUMBER:	STP SURF(53)		
FILE NAME: I4v204\pl4v204.dgn\pl4v204_41.i	PLOT DATE:	04-NOV-2015	
PROJECT LEADER: M. FOWLER	DRAWN BY:	K. LOCKE	
DESIGNED BY: K. LOCKE	CHECKED BY:	M. FOWLER	
ROUGHNESS DATA INFORMATION SHEET	SHEET	41	OF 45

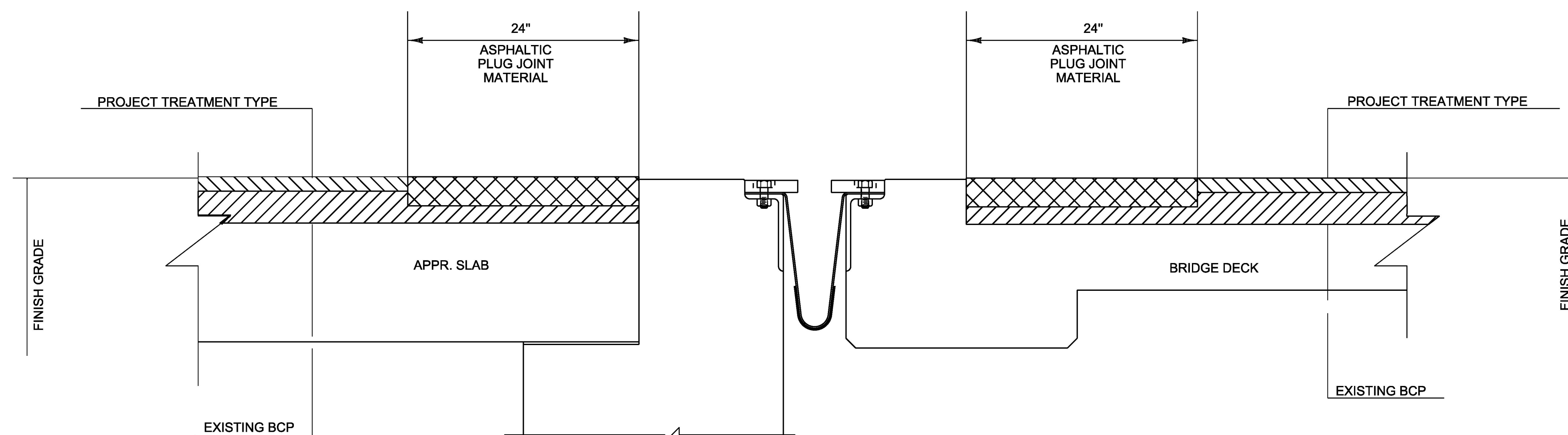
**VT 118 Belvidere-Berkshire STP SURF(53) PreCon Ruts**  
 Profiled 10/1/2015



PROJECT NAME:	BELVIDERE - BERKSHIRE
PROJECT NUMBER:	STP SURF(53)
FILE NAME: I4v204\pl4v204.dgn\pl4v204_42.i	PLOT DATE: 04-NOV-2015
PROJECT LEADER: M. FOWLER	DRAWN BY: K. LOCKE
DESIGNED BY: K. LOCKE	CHECKED BY: M. FOWLER
RUTTING DATA INFORMATION SHEET	SHEET 42 OF 45



**EXPANSION JOINT TYPICAL SECTION  
PLAN VIEW  
(VERTICAL PLATE/VERMONT JOINT)**



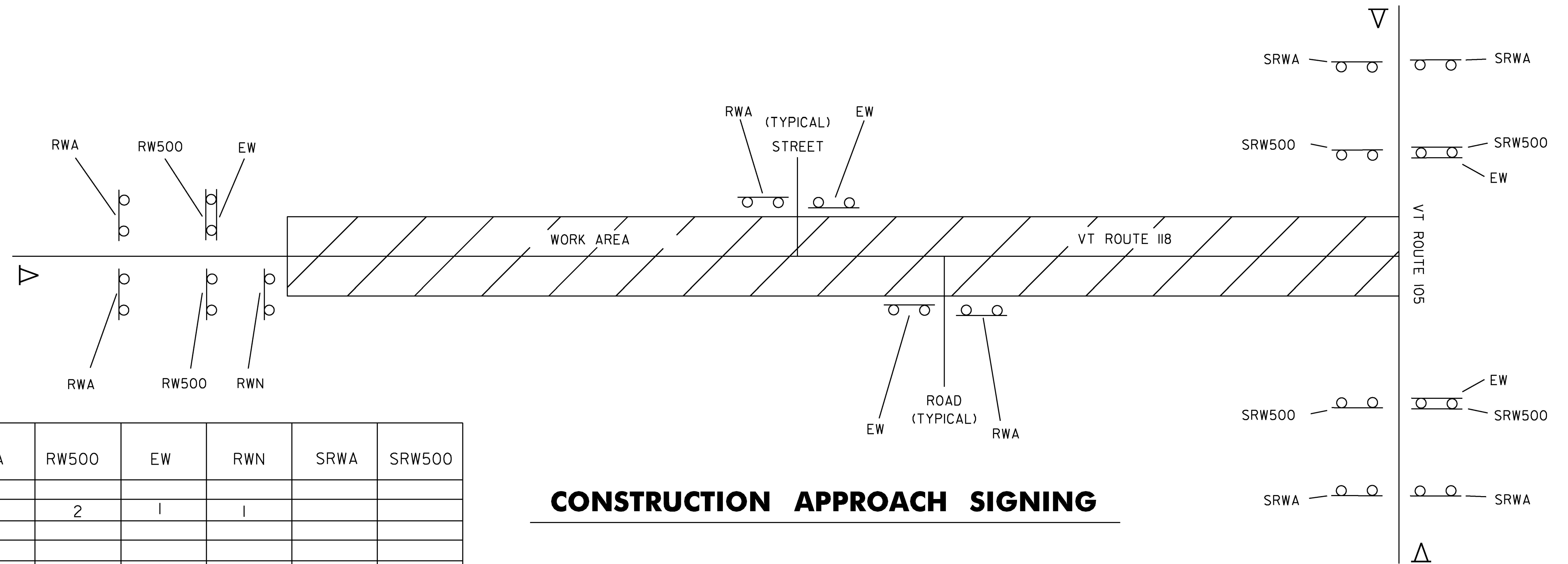
**EXPANSION JOINT TYPICAL SECTION  
CROSS SECTION  
(VERTICAL PLATE/VERMONT JOINT)**

NOT TO SCALE

PROJECT NAME: BELVIDERE - BERKSHIRE	
PROJECT NUMBER: STP SURF(53)	
FILE NAME: \pl4v204.dgn\pl4v204.43.i	PLOT DATE: 04-NOV-2015
PROJECT LEADER: MJF	DRAWN BY: JLR
DESIGNED BY: KML	CHECKED BY: MJF
EXPANSION JOINT DETAILS SHEET	SHEET 43 OF 45

LIST OF  
CONSTRUCTION SIGNS

TOWN HIGHWAY	RWA	RW500	EW	RWN	SRWA	SRW500
BELVIDERE						
BEGIN PROJECT	2	2	1	1		
MONTGOMERY						
NUTTING RD	1		1			
S. BRANCH RD	1		1			
REAGAN RD	1		1			
SUNDELL RD	1		1			
GIBOU RD	1		1			
SOUTH BROOK RD	1		1			
SOUTH BROOK RD	1		1			
NOTCH RD	1		1			
GRANNY GRUNTS RD	1		1			
VT ROUTE 242	1		1			
TROUT RIVER RD	1		1			
RIVER ST	1		1			
SCHOOL DRIVE	1		1			
DREAMERS RD	1		1			
TH #41	1		1			
TH #1	1		1			
TH #39	1		1			
TH #42	1		1			
BANK RD	1		1			
COMSTOCK BRIDGE RD	1		1			
HILL WEST RD	1		1			
WEST HILL RD	1		1			
LONGLEY BRIDGE RD	1		1			
ENOSBURG						
HOPKINS BRIDGE RD	1		1			
PRIVE HILL RD	1		1			
BERKSHIRE						
WOODARD NEIGHBORHOOD RD	1		1			
PERLEY RD	1		1			
VT ROUTE 105 (END PROJ)			2		4	4
TOTALS	29	2	30	1	4	4



**CONSTRUCTION APPROACH SIGNING**

LEGEND

- RWA = ROAD WORK AHEAD
- RW500 = ROAD WORK 500 FEET
- EW = END WORK
- RWN = ROAD WORK NEXT 15 MILES
- SRWA = SIDE ROAD WORK AHEAD
- SRW500 = SIDE ROAD WORK 500 FEET
- △ = PORTABLE CHANGEABLE MESSAGE SIGN

NOT TO SCALE

PROJECT NAME:	BELVIDERE - BERKSHIRE
PROJECT NUMBER:	STP SURF(53)
FILE NAME:	I4v204\pi4v204.dgn\pi4v204_44.I
PLOT DATE:	04-NOV-2015
PROJECT LEADER:	M. FOWLER
DRAWN BY:	K. LOCKE
DESIGNED BY:	K. LOCKE
CHECKED BY:	M. FOWLER
CONSTRUCTION APPROACH SIGNING SHEET	SHEET 44 OF 45

NOTES:

1. THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO BEGINNING ANY FIELD WORK IN ACCORDANCE WITH SECTION 105.03. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) WILL NOT BE PAID SEPARATELY BUT WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10, TRAFFIC CONTROL.

2. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION APPROACH SIGN PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH VAOT STANDARD T-17 AND THE LATEST EDITION OF THE MUTCD. PAYMENT FOR PROVIDING THIS PACKAGE WILL BE CONSIDERED INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL.

3. THE BID PRICE FOR TRAFFIC CONTROL, ITEM 641.10, WILL INCLUDE ALL APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, PORTABLE ARROW BOARDS, BARRIERS, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN VAOT STANDARDS. ALL ADJUSTING, RELOCATING, AND REMOVING OF THESE DEVICES AS DIRECTED BY THE ENGINEER WILL ALSO BE INCLUDED. THE FOLLOWING ITEMS WILL BE PAID FOR SEPARATELY: 630.10 - UNIFORMED TRAFFIC OFFICERS, AND 630.15 - FLAGGERS, 646.602 - TEMPORARY 4 INCH WHITE LINE, PAINT, 646.612 - TEMPORARY 4 INCH YELLOW LINE, PAINT, 646.642 - TEMPORARY 8 INCH WHITE LINE, PAINT, 646.682 - TEMPORARY 24 INCH STOP BAR, PAINT, 646.692 - TEMPORARY LETTER OR SYMBOL, PAINT, AND 646.76 - LINE STRIPING TARGETS.

4. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE PROVIDED FOR USE ALONG THIS PROJECT. THE PLACEMENT OF THESE UNITS AS WELL AS THE MESSAGE WILL BE APPROVED BY THE ENGINEER. THESE SIGNS WILL BE PAID FOR UNDER ITEM 641.15, PORTABLE CHANGEABLE MESSAGE SIGN.

FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL POSITION A PCMS PRIOR TO THE BEGIN AND END PROJECT LIMITS WARNING MOTORISTS OF EXPECTED ROADWAY CONDITIONS AND REDUCED ROADWAY WIDTHS.

PCMS SHOULD NOT REPLACE ANY OF THE SIGNING DETAILED IN THE MUTCD AND SHOULD NOT BE USED IF STANDARD TRAFFIC CONTROL DEVICES ADEQUATELY PROVIDE THE INFORMATION THE MOTORISTS NEED TO TRAVEL SAFELY.

THE PCMS SHALL CONSIST OF EITHER ONE OR TWO PHASES. TYPICALLY, A PHASE SHALL CONSIST OF UP TO THREE LINES OF EIGHT CHARACTERS PER LINE. THE PCMS SHOULD BE USED AS A SUPPLEMENT AND NOT AS A SUBSTITUTE FOR CONVENTIONAL SIGNS AND PAVEMENT MARKINGS.

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

5. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE, AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS.

6. REFER TO VAOT STANDARDS AND THE LATEST EDITION OF THE MUTCD FOR TEMPORARY TRAFFIC CONTROL SIGN COLORS.

7. EXISTING SPEED LIMIT SIGNS SHALL BE COVERED WHEN REDUCED SPEED SIGNS ARE POSTED. KEEP RECORDS WHEN POSTING THE WORK ZONE SPEED LIMIT FOR LEGAL PURPOSES; DOCUMENTING DATES, TIMES, AND LOCATIONS OF SIGNS. WHEN WORK ZONE SPEED LIMIT IS NOT IN USE ALL ASSOCIATED SIGNS SHALL BE COVERED, TURNED AND/OR LAID FLAT SO AS THE MOTORING PUBLIC CANNOT READ THESE SIGNS.

8. PORTABLE OR STATIONARY WORK ZONE SPEED LIMIT SIGNS SHOULD BE SPACED EVERY 1.5 TO 2 MILES WHERE APPLICABLE AND AFTER INTERSECTIONS AS A REMINDER TO THE MOTORIST TRAVELING THROUGH THE WORK ZONE WHAT SPEED THEY SHOULD BE TRAVELING.

9. WHEN REDUCED REGULATORY SPEED LIMIT SIGNS ARE USED, THE RESUMPTION OF THE USUAL SPEED LIMIT SHALL BE INDICATED BY AN APPROPRIATE SPEED LIMIT SIGN AT THE END OF THE WORK ZONE.

10. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MUTCD, PART 6.

11. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.

12. IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF FOUR FEET. IF THE TPAR IS LESS THAN FIVE FEET IN WIDTH, A FIVE FOOT BY FIVE FOOT PASSING SPACE SHOULD BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICT WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.

13. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASH WORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF THE MUTCD SHALL BE USED.

14. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.

15. THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE PROPER PROTECTION AND A TPAR HAVE BEEN PROVIDED.

16. THE CONTRACTOR SHALL SUBMIT A TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW AND WRITTEN APPROVAL TO THE ENGINEER A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC. PAYMENT FOR DEVELOPING, IMPLEMENTING, AND MAINTAINING THE TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN WILL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 641.10.

PROJECT NAME: BELVIDERE - BERKSHIRE

PROJECT NUMBER: STP SURF(53)

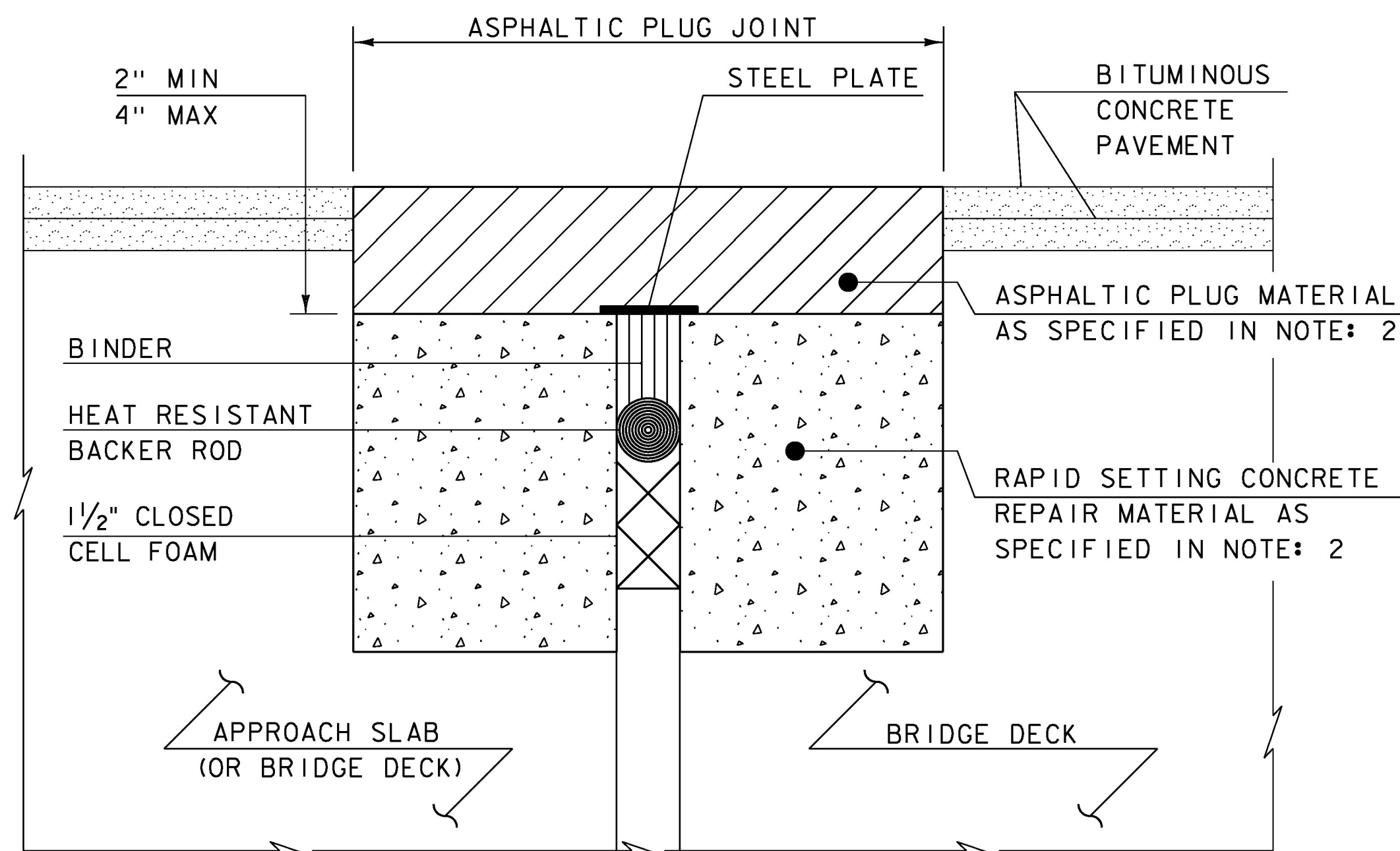
FILE NAME: I4v204\pi4v204.dgn\pi4v204_45.I PLOT DATE: 04-NOV-2015

PROJECT LEADER: M. FOWLER DRAWN BY: K. LOCKE

DESIGNED BY: K. LOCKE CHECKED BY: M. FOWLER

TRAFFIC CONTROL NOTES SHEET SHEET 45 OF 45

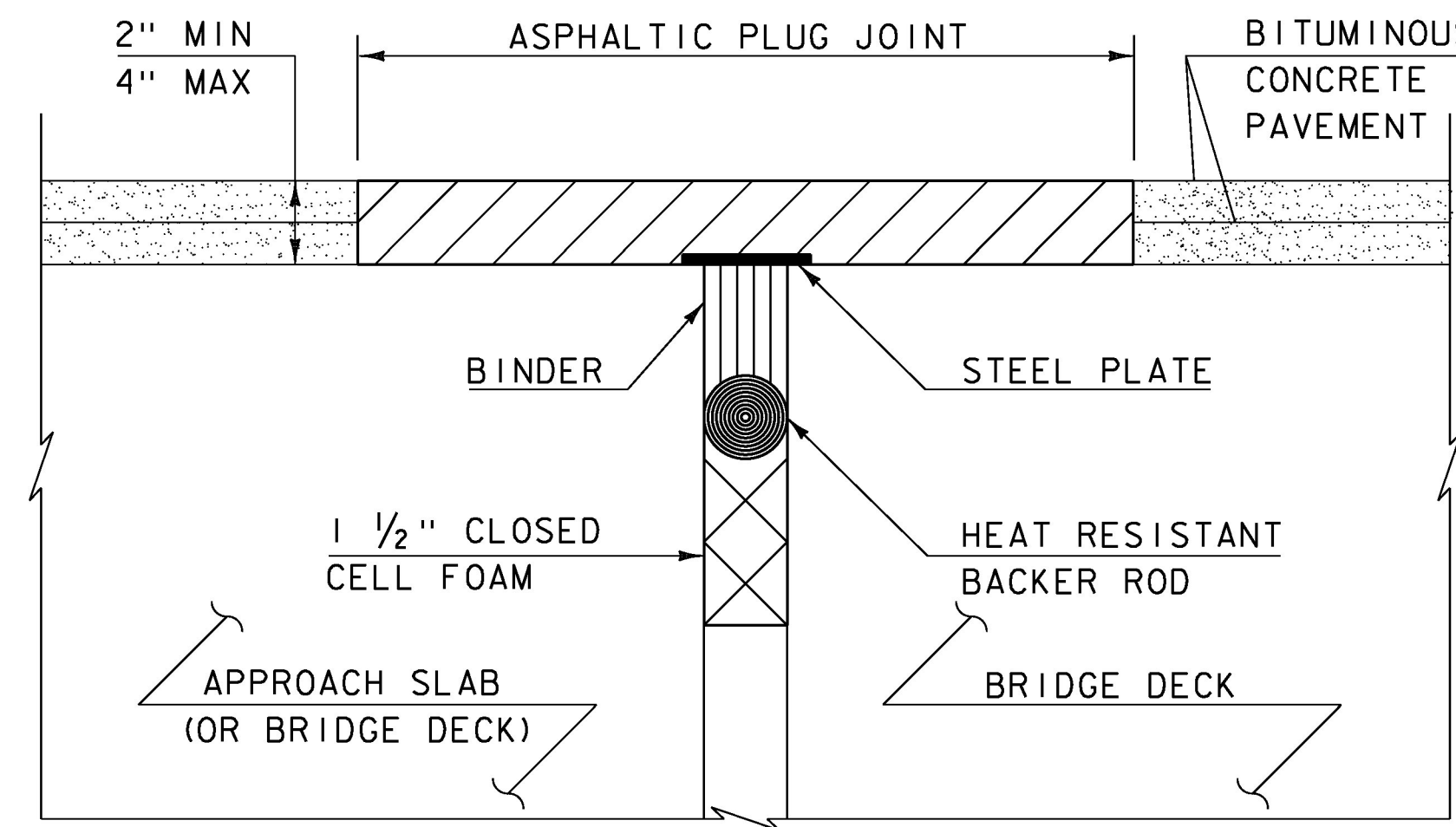
**ASPHALTIC PLUG JOINT NOTES**



**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 COARSE 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:**

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 COARSE 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) +/-.

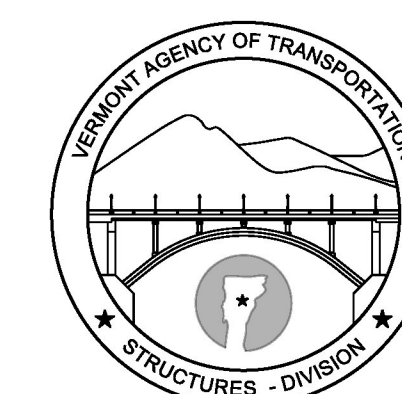
**WEATHER LIMITATIONS**

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**