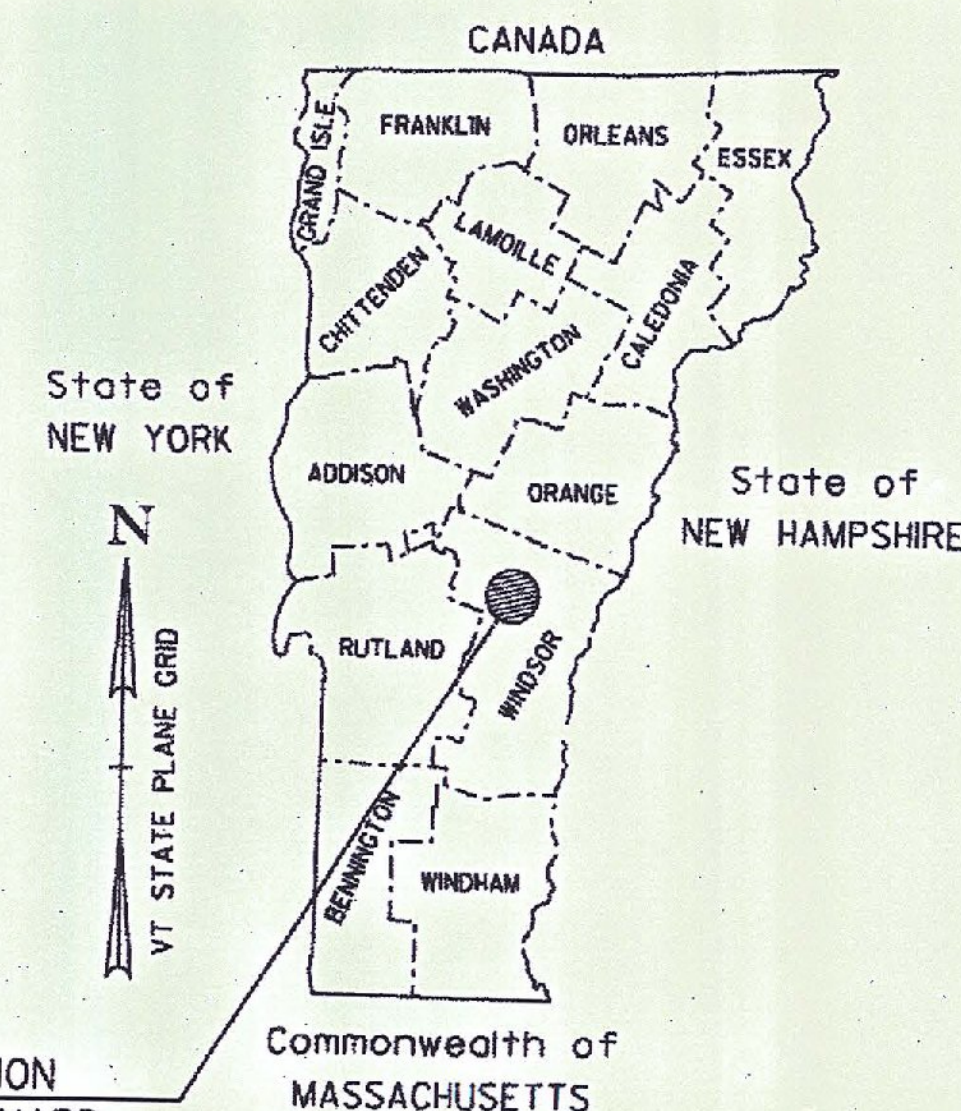
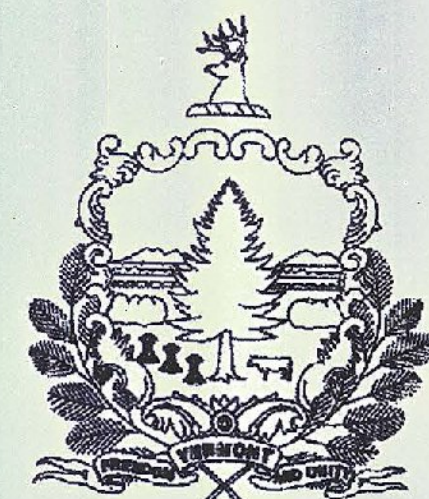


STATE OF VERMONT AGENCY OF TRANSPORTATION



LOCATION VT ROUTE 12	MILE MARKS	AADT		DHV		%T		%D		ADTT		ESALs	
		2016	2026	2016	2026	2016	2026	2016	2026	2016	2026	2016-2026	2016-2036
BEGIN PROJECT TO POMFRET RD	0.710- 1.115	3200	3200	380	380	5.6	7.1	59	59	210	270	436,000	969,000
POMFRET RD TO END PROJECT	1.115- 3.124	1600	1600	200	200	6.1	7.6	63	63	100	130	209,000	468,000

POSTED SPEED : 50 MPH
DESIGN SPEED : EQUAL TO POSTED SPEED

PROPOSED IMPROVEMENT TOWNS OF WOODSTOCK, POMFRET & BARNARD COUNTY OF WINDSOR VT ROUTE 12 (MAJOR COLLECTOR)

BEGINNING ON VT ROUTE 12 IN WOODSTOCK AT STATION 37+49.00 (MM 0.710) AND EXTENDING NORTHERLY ALONG
VT ROUTE 12 A DISTANCE OF 41,156.00 FEET (7.794 MILES) TO STATION B 164+97.00 (MM 3.124) IN THE TOWN OF BARNARD.

WOODSTOCK STA 37+49.00 (MM 0.710) ~ STA 210+77.00 (MM 3.992) = 17,328.00 FEET (3.282 MILES)
POMFRET STA P 0+00.00 (MM 0.000) ~ STA P 73+31.00 (MM 1.388) = 7,331.00 FEET (1.388 MILES)
BARNARD STA B 0+00.00 (MM 0.000) ~ STA B 164+97.00 (MM 3.124) = 16,497.00 FEET (3.124 MILES)

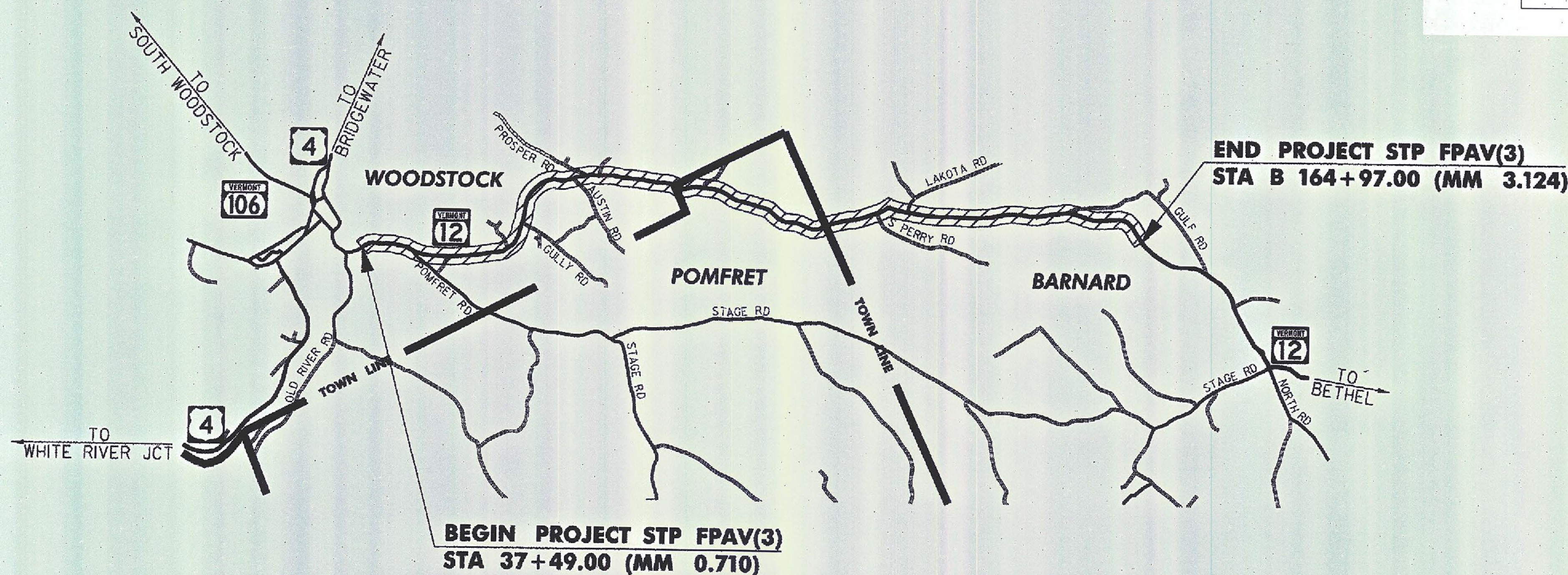
LENGTH OF ROADWAY = 41,156.00 FEET (7.794 MILES)
LENGTH OF PROJECT = 41,156.00 FEET (7.794 MILES)

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES PAVING THE
EXISTING HIGHWAY, PAVEMENT MARKINGS AND OTHER HIGHWAY RELATED ITEMS.

SUPERPAVE BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA

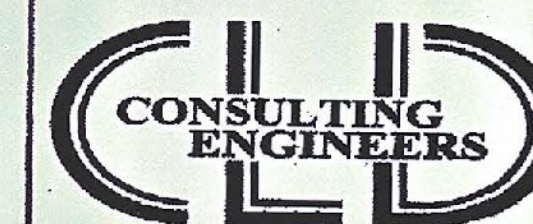
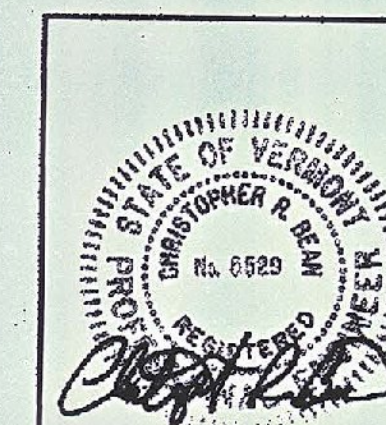
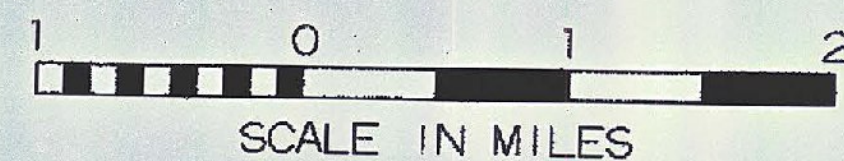
DESIGN LANE/DESIGN LIFE ESAL	294,840
DESIGN NUMBER OF GYRATIONS	50
PERFORMANCE GRADED ASPHALT BINDER	SEE SUBSECTION 490.03(b)

RECORD PLANS	
CONTRACTOR:	PIKE INDUSTRIES, INC. - BERLIN, VT
RESIDENT ENGINEER:	TOM CHASE
CONSTRUCTION BEGAN:	AUGUST 29, 2016
CONSTRUCTION COMPLETE:	NOVEMBER 2, 2016
RECORD PLANS BY:	TOM CHASE & JESSE IVES
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.	
BY:	<i>Thomas A. Chase</i> RESIDENT ENGINEER
DATE:	09/26/17
NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found by contacting Vtrans Records Management.	



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



540 Commercial Street
Manchester, NH 03101
(603) 668-8223
www.cldengineers.com

DIRECTOR OF PROJECT DELIVERY
APPROVED: *JH* DATE 10/7/2016
PROJECT MANAGER : JONATHAN HARRINGTON, P. E.
PROJECT NAME : WOODSTOCK-BARNARD
PROJECT NUMBER : STP FPAV (3)
SHEET 1 OF 26 SHEETS

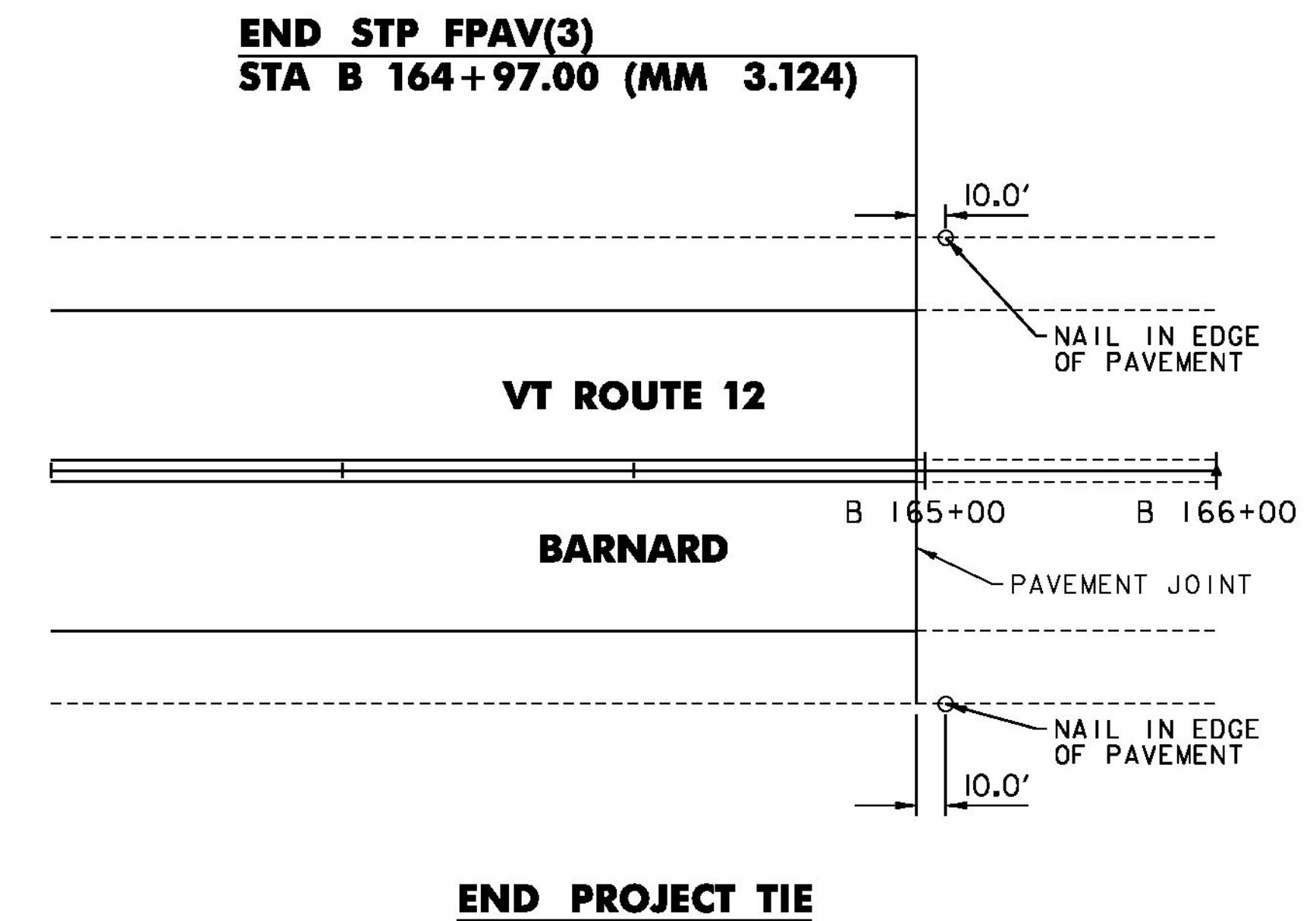
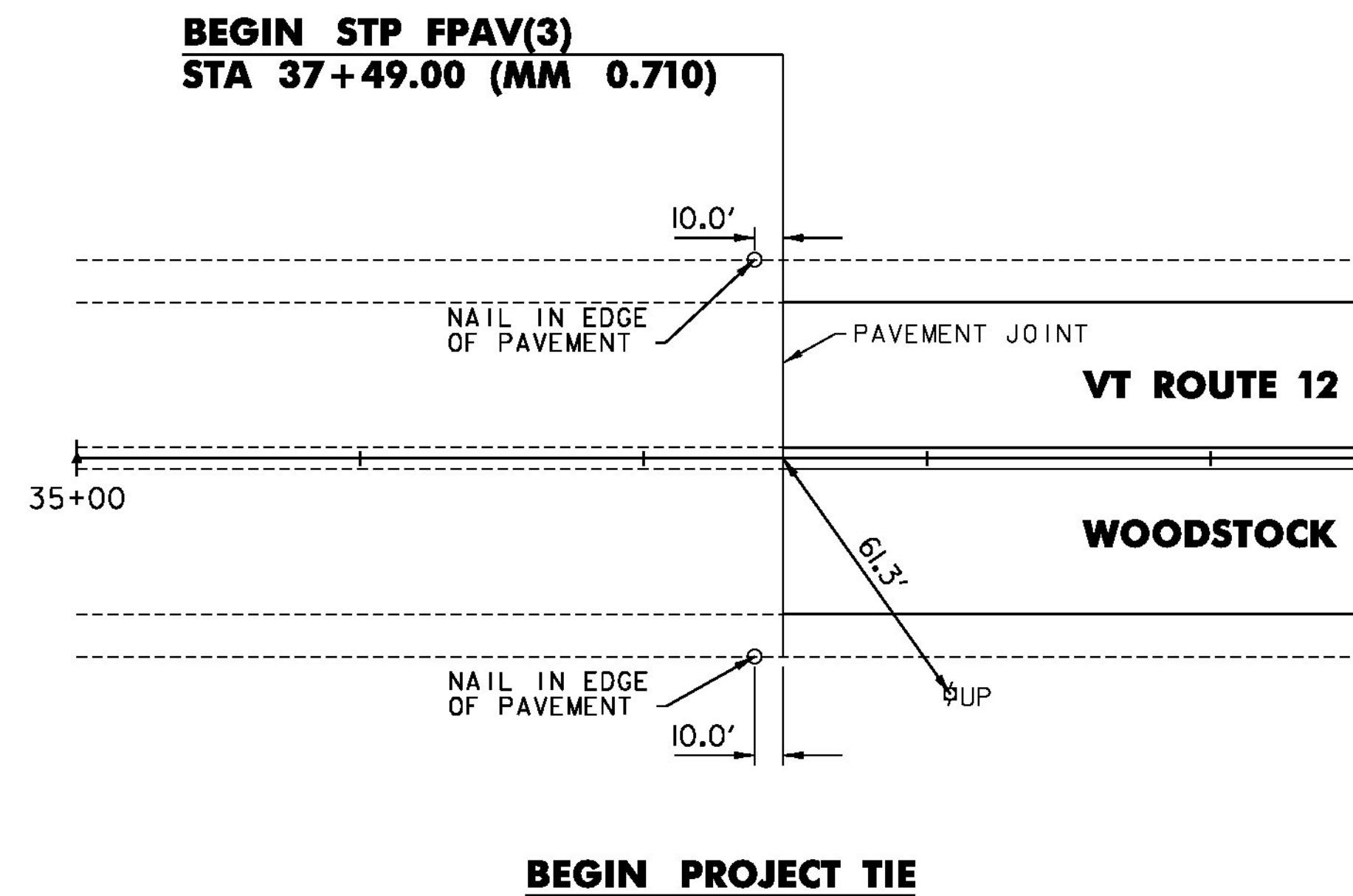
INDEX OF SHEETS

INDEX OF VAOT STANDARDS

STD	DATE	DESCRIPTION
B-71	7/8/2005	STANDARDS FOR RESIDENTIAL AND COMMERCIAL DRIVES
E-193	8/18/1995	PAVEMENT MARKING DETAILS
T-1	4/25/2016	TRAFFIC CONTROL GENERAL NOTES
T-10	8/6/2012	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING
T-17	8/6/2012	TRAFFIC CONTROL MISCELLANEOUS DETAILS
T-24	8/6/2012	TRAFFIC CONTROL FOR MAINTENANCE PAVEMENT MARKING OPERATION
T-28	8/6/2012	CONSTRUCTION SIGN DETAILS
T-29	8/6/2012	CONSTRUCTION SIGN DETAILS
T-30	8/6/2012	CONSTRUCTION SIGN DETAILS
T-31	8/6/2012	CONSTRUCTION SIGN DETAILS
T-35	8/6/2012	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS
T-36	8/6/2012	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS FOR PAVING
T-40	1/2/2013	DELINEATORS AND MILEPOSTS

INDEX OF SHEETS

SHT	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS & TIE SHEET
3	CONVENTIONAL SYMBOLOGY LEGEND SHEET
4	PROJECT NOTES
5-6	TYPICAL SECTIONS SHEETS 1-2
7	DETAIL SHEET
8-9	QUANTITY SHEETS 1-2
10	HANDWORK DETAIL SHEET
11-25	PLAN SHEETS 1-15
26	CONSTRUCTION APPROACH SIGNING
HIGHWAY SAFETY & DESIGN DETAIL	
HSD-400.01	SAFETY EDGE DETAILS
STRUCTURES DETAIL	
SD-516.10	BRIDGE JOINT ASPHALTIC PLUG



NOT TO SCALE

PROJECT NAME:	WOODSTOCK-BARNARD
PROJECT NUMBER:	STP FPAV(3)
FILE NAME: z16v024frm.dgn	PLOT DATE: 6/2/2016
PROJECT LEADER: P. SHEDD	DRAWN BY: S. GOODWIN
DESIGNED BY: N. LEMAY	CHECKED BY: P. SHEDD
INDEX OF SHEETS & TIE SHEET	SHEET 2 OF 26

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

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

PROPOSED GEOMETRY CODES

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

PROJECT DESIGN & LAYOUT SYMBOLGY

— — — CZ — — —	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 — — — — — PDF	PROJECT DEMARCATION FENCE
BF — — — — — BF	BARRIER FENCE
⊗ ⊗ ⊗ ⊗ ⊗ ⊗	TREE PROTECTION ZONE (TPZ)
//// //// //// ////	STRIPING LINE REMOVAL
~~~~ ~~~~ ~~~~ ~~~~	SHEET PILES

**CONVENTIONAL BOUNDARY SYMBOLGY**

**BOUNDARY LINES**

— — — — —	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)
— — — — —	SLOPE RIGHTS
6f — — — — — 6f	6F PROPERTY BOUNDARY
4f — — — — — 4f	4F PROPERTY BOUNDARY
HAZ — — — — — 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

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLGY

**ENVIRONMENTAL RESOURCES**

— — — — —	WETLAND BOUNDARY
— — — — —	RIPARIAN BUFFER ZONE
— — — — —	WETLAND BUFFER ZONE
— — — — —	SOIL TYPE BOUNDARY
— — — — —	THREATENED & ENDANGERED SPECIES
HAZ — — — — — HAZ	HAZARDOUS WASTE AREA
AG — — — — —	AGRICULTURAL LAND
HABITAT — — — — —	FISH & WILDLIFE HABITAT
FLOOD PLAIN — — — — —	FLOOD PLAIN
OHW — — — — —	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
x — — — — — x	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: WOODSTOCK-BARNARD  
 PROJECT NUMBER: STP FPAV(3)  
 FILE NAME: z16v024frm.dgn PLOT DATE: 6/2/2016  
 PROJECT LEADER: P. SHEDD DRAWN BY: S. GOODWIN  
 DESIGNED BY: N. LEMAY CHECKED BY: P. SHEDD  
 CONVENTIONAL SYMBOLGY LEGEND SHEET SHEET 3 OF 26

**PROJECT NOTES**

**GENERAL NOTES**

1. ALL PROPOSED WORK TO BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY.
2. COLD PLANING SHALL BE COMPLETED ACCORDING TO THE TYPICAL SECTIONS OR AS DENOTED OTHERWISE ON THE PLANS. A FULL DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE PROJECT BEGIN AND END OR AS OTHERWISE DIRECTED BY THE ENGINEER. ALL JOINTS SHALL BE SAW CUT, INCIDENTAL TO ITEM 210.10 COLD PLANING, BITUMINOUS PAVEMENT.
3. EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE RESIDENT ENGINEER SHALL BE EXCAVATED TO A DEPTH OF THREE INCHES OR AS DIRECTED BY THE ENGINEER. EXCAVATION SHALL BE PAID UNDER ITEM 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I AND ITEM 608.37 TRUCK RENTAL. MATERIAL REMOVED SHALL BE REPLACED WITH ITEM 301.28 SUBBASE OF CRUSHED GRAVEL, FINE GRADED AS DIRECTED BY THE ENGINEER. EXCAVATED MATERIAL SHALL BE SPREAD ON THE ADJACENT SLOPES, OR REMOVED FROM THE PROJECT AS DIRECTED BY THE ENGINEER.
4. ALL NECESSARY SURFACE PREPARATION INVOLVING PATCHING, POT HOLE REPAIR, AND CRACK SEALING SHALL BE PERFORMED FOLLOWING COLD PLANING AND PRIOR TO PAVING. THE PATCHING OF ALL CRACKS GREATER THAN ONE INCH AND POT HOLE REPAIR SHALL BE COMPLETED WITH ITEM 900.680 SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE I). AN ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN INCLUDED.
5. THE CONTRACTOR SHALL USE CAUTION WHEN COLD PLANING AND PAVING OPERATIONS OCCUR ON BRIDGE DECKS. SHOULD ANY DAMAGE OCCUR TO THE DECK OR MEMBRANE AS A RESULT OF THE CONTRACTOR'S OPERATIONS THE ENGINEER SHALL CONTACT THE VAOT CONSTRUCTION STRUCTURES ENGINEER TO PROVIDE AN ASSESSMENT OF THE DAMAGE AND RECOMMEND ANY NECESSARY REPAIRS. THE CONSTRUCTION STRUCTURES ENGINEER WILL ALSO DETERMINE IF THE DAMAGE WAS AVOIDABLE. IF THE CONTRACTOR IS DETERMINED BY THE ENGINEER TO BE AT FAULT FOR THE DAMAGE, THE RECOMMENDED REPAIRS SHALL BE COMPLETED BY THE CONTRACTOR AT NO COST TO THE STATE.
6. EDGES OF PAVEMENT SHALL INCLUDE A SAFETY EDGE. SEE SAFETY EDGE DETAILS (HIGHWAY SAFETY & DESIGN DETAIL HSD-400.01).
7. ALL SIDE ROADS ARE TO BE PAVED FOUR FEET FROM THE EDGE OF MAINLINE SHOULDER UNLESS OTHERWISE SPECIFIED IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
8. ALL EDGES OF PAVEMENT SHALL BE BACKED UP TO FULL HEIGHT WITH AGGREGATE SHOULDER MATERIAL AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE OPTIONED AND PAID UNDER ITEM 402.12 AGGREGATE SHOULDERS OR ITEM 402.13 AGGREGATE SHOULDERS, RAP.
9. ASPHALTIC PLUG-TYPE JOINT SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS. SEE BRIDGE JOINT ASPHALTIC PLUG (STRUCTURES DETAIL SD-516.10)
  - WOODSTOCK - BRIDGE #16 - 79+99 (MM 1.515) 29' ASPHALTIC JOINT
  - BRIDGE #17 - 161+42 (MM 3.057) 30' ASPHALTIC JOINT
  - BRIDGE #19 - 171+81 (MM 3.254) 30' ASPHALTIC JOINT
  - BRIDGE #20 - 186+67 (MM 3.535) 31' ASPHALTIC JOINT

} TWO JOINTS PER BRIDGE  
 — FOUR JOINTS AS REQUESTED BY RE TOM CHASE
10. THE PAVING PROJECT HAS CONCURRENT WORK ASSOCIATED WITH HES GARD(2). THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES, INCLUDING TRAFFIC CONTROL, WITH THE CORRESPONDING CONTRACTOR.
11. ESTIMATED QUANTITIES OF ITEM 608.15 POWER GRADER RENTAL, ITEM 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I, AND ITEM 608.37 TRUCK RENTAL HAVE BEEN INCLUDED FOR REMOVING BUILT UP SAND, SOD ETC. ADJACENT TO THE SHOULDER, IN NON-GUARDRAIL AREAS, TO ALLOW FREE DRAINAGE OFF THE SHOULDER AS DIRECTED BY THE ENGINEER.

**LEVEL AND OVERLAY NOTES**

1. GRASS GROWING ADJACENT TO THE PAVEMENT OR THROUGH CRACKS IN THE PAVEMENT, WHICH MAY HAMPER THE PLACEMENT OF NEW BITUMINOUS CONCRETE PAVEMENT, SHALL BE REMOVED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK WILL NOT BE MADE DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 406.27 MEDIUM DUTY BITUMINOUS CONCRETE PAVEMENT TYPE IV OR ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
2. PAVEMENT WILL BE AN ALTERNATE AND PAID UNDER ITEM 406.27 MEDIUM DUTY BITUMINOUS CONCRETE PAVEMENT OR ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
3. ALL BITUMINOUS CONCRETE PAVEMENT TOLERANCE = 1/4" +/- (TOTAL THICKNESS EXCLUDING LEVELING COURSE).
4. IF ITEM 406.27 MEDIUM DUTY BITUMINOUS CONCRETE PAVEMENT ALTERNATE IS SELECTED, THE WEARING COURSE AND LEVELING COURSE SHALL BE TYPE IV MEDIUM DUTY BITUMINOUS CONCRETE PAVEMENT. ALL PG GRADED ASPHALT CEMENT USED IN THE MEDIUM DUTY BITUMINOUS CONCRETE PAVEMENT SHALL BE AS SPECIFIED IN SUBSECTION 406.03(b). IF ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT ALTERNATE IS SELECTED, THE WEARING COURSE AND LEVELING COURSE SHALL BE TYPE IVS SUPERPAVE BITUMINOUS CONCRETE PAVEMENT. ALL PG GRADED ASPHALT CEMENT USED IN THE SUPERPAVE BITUMINOUS CONCRETE PAVEMENT SHALL BE AS SPECIFIED IN SUBSECTION 490.03(b).
5. FOR ESTIMATING PURPOSES 3/4" LEVELING COURSE HAS BEEN QUANTIFIED FOR THE PROJECT. THE LEVELING COURSE DEPTH IS MEANT TO CORRECT PROFILE DEFICIENCIES PRIOR TO THE WEARING COURSE BEING PLACED. THE ENGINEER WILL WORK WITH VTRANS PAVEMENT DESIGN STAFF TO DETERMINE THE ACTUAL LEVELING COURSE DEPTH.
6. RUBBER TIRE COMPACTION ROLLERS SHALL BE USED ON THE LEVELING COURSE TO MAXIMIZE COMPACTION ON THE UNEVEN SURFACES.
7. EMULSIFIED ASPHALT SHALL BE APPLIED AS A TACK COAT ON ALL EXISTING OR COLD PLANED PAVEMENT SURFACES AT THE RATE OF 0.080 GAL/SY AND BETWEEN ALL COURSES OF BITUMINOUS CONCRETE PAVEMENT AT THE RATE OF 0.025 TO 0.040 GAL/SY. EMULSIFIED ASPHALT WILL BE AN ALTERNATE AND PAID UNDER ITEM 404.65 EMULSIFIED ASPHALT OR ITEM 900.683 SPECIAL PROVISION (EMULSIFIED ASPHALT) (RS-1H OR CRS-1H).

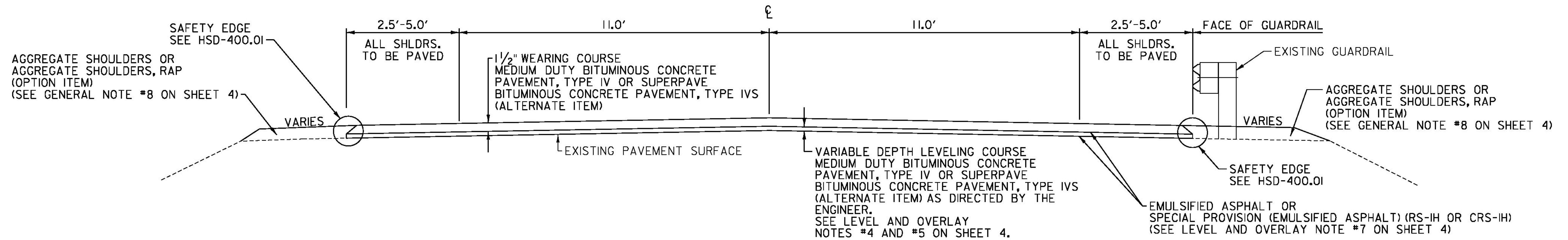
8. ALL PAVED AND GRAVEL RESIDENTIAL, COMMERCIAL, FIELD AND WOOD DRIVES SHALL RECEIVE A TWO FEET PAVED APRON UNLESS OTHERWISE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ANY AND ALL REQUIRED EXCAVATION AND ASSOCIATED DRIVE GRADING IN DRIVE AREAS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE NEW BITUMINOUS SURFACE SHALL BE CONSTRUCTED AS DIRECTED BY THE ENGINEER AND WILL BE PAID FOR UNDER ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES). BITUMINOUS CONCRETE MATERIAL PLACED BY MECHANICAL METHODS AT THESE LOCATIONS IS EXCLUDED. ALL OTHER BITUMINOUS MATERIALS PLACED WITHIN THE PROJECT LIMITS, WHETHER BY HAND OR MECHANICAL METHODS, WILL BE PAID UNDER ITEM 406.27 MEDIUM DUTY BITUMINOUS CONCRETE PAVEMENT OR ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT AS APPLICABLE.

**COLD IN PLACE RECYCLING WITH PAVER PLACED SURFACE TREATMENT NOTES**

1. THREE INCHES OF COLD MIXED BITUMINOUS PAVEMENT WILL BE PAID UNDER ITEM 900.675 SPECIAL PROVISION (COLD IN-PLACE RECYCLED BITUMINOUS PAVEMENT, PORTLAND CEMENT).
2. FOR THE PURPOSE OF QUANTITY CALCULATION IT HAS BEEN ASSUMED ITEM 900.675 SPECIAL PROVISION (COLD IN-PLACE RECYCLED BITUMINOUS PAVEMENT, PORTLAND CEMENT) WILL REQUIRE 3% BY WEIGHT OF ITEM 900.683 SPECIAL PROVISION (EMULSIFIED ASPHALT, COLD MIX WITH CEMENT). IT HAS ALSO BEEN ASSUMED 1% BY WEIGHT OF ITEM 900.680 SPECIAL PROVISION (PORTLAND CEMENT FOR COLD MIXED RECYCLING) WILL BE REQUIRED BY MIX DESIGN.
3. ITEM 900.683 SPECIAL PROVISION (FOG SEAL SURFACE TREATMENT) SHALL BE APPLIED ON THE SURFACE OF COLD IN-PLACE RECYCLED BITUMINOUS PAVEMENT, PORTLAND CEMENT AT THE RATE OF 0.15 GAL/SY OR AS DIRECTED BY THE ENGINEER.
4. ITEM 900.675 SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C) PAVEMENT TOLERANCE = 1/8" +/- (TOTAL THICKNESS).
5. ALL PAVED AND GRAVEL RESIDENTIAL, COMMERCIAL, FIELD AND WOOD DRIVES SHALL RECEIVE A TWO FEET PAVED APRON UNLESS OTHERWISE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ANY AND ALL REQUIRED EXCAVATION AND ASSOCIATED DRIVE GRADING IN DRIVE AREAS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE NEW BITUMINOUS SURFACE SHALL BE CONSTRUCTED AS DIRECTED BY THE ENGINEER AND WILL BE PAID FOR UNDER ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES). BITUMINOUS CONCRETE MATERIAL PLACED BY MECHANICAL METHODS AT THESE LOCATIONS IS EXCLUDED. ALL OTHER BITUMINOUS MATERIALS PLACED WITHIN THE PROJECT LIMITS, WHETHER BY HAND OR MECHANICAL METHODS, WILL BE PAID UNDER ITEM 900.675 SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C).

PROJECT NAME:	WOODSTOCK-BARNARD
PROJECT NUMBER:	STP FPAV(3)
FILE NAME:	z16v024frm.dgn
PROJECT LEADER:	P. SHEDD
DESIGNED BY:	N. LEMAY
PROJECT NOTES	
PLOT DATE:	6/28/2016
DRAWN BY:	S. GOODWIN
CHECKED BY:	P. SHEDD
SHEET	4 OF 26

# ALTERNATES ZA1, ZA2, ZA3 & ZA4

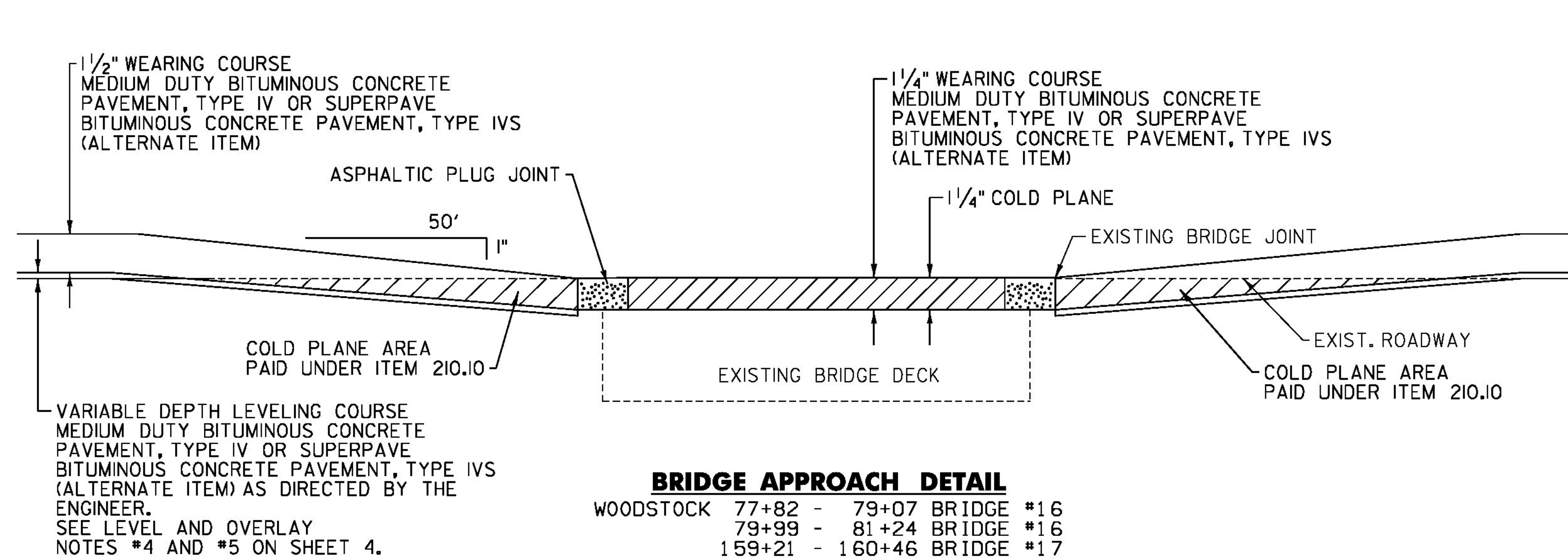


## TYPICAL SECTION

WOODSTOCK	
37+49 - 51+56	(3 FEET SHOULDERS)
51+56 - 55+02	(2.5 FEET SHOULDERS)
55+02 - 79+07	(3 FEET SHOULDERS)
79+07 - 80+67	(3.5 FEET SHOULDERS)
80+67 - 93+32	(4 FEET SHOULDERS)
93+32 - 106+36	(4.5 FEET SHOULDERS)
106+36 - 122+62	(4 FEET SHOULDERS)
122+62 - 132+00	(4.5 FEET SHOULDERS)
132+00 - 162+09	(4 FEET SHOULDERS)
162+09 - 166+02	(3 FEET SHOULDERS)
166+02 - 184+48	(4 FEET SHOULDERS)
184+48 - 188+00	(4.5 FEET SHOULDERS)
188+00 - 194+14	(5 FEET SHOULDERS)
194+14 - 198+86	(3.5 FEET SHOULDERS)
198+86 - 210+77	(4 FEET SHOULDERS)

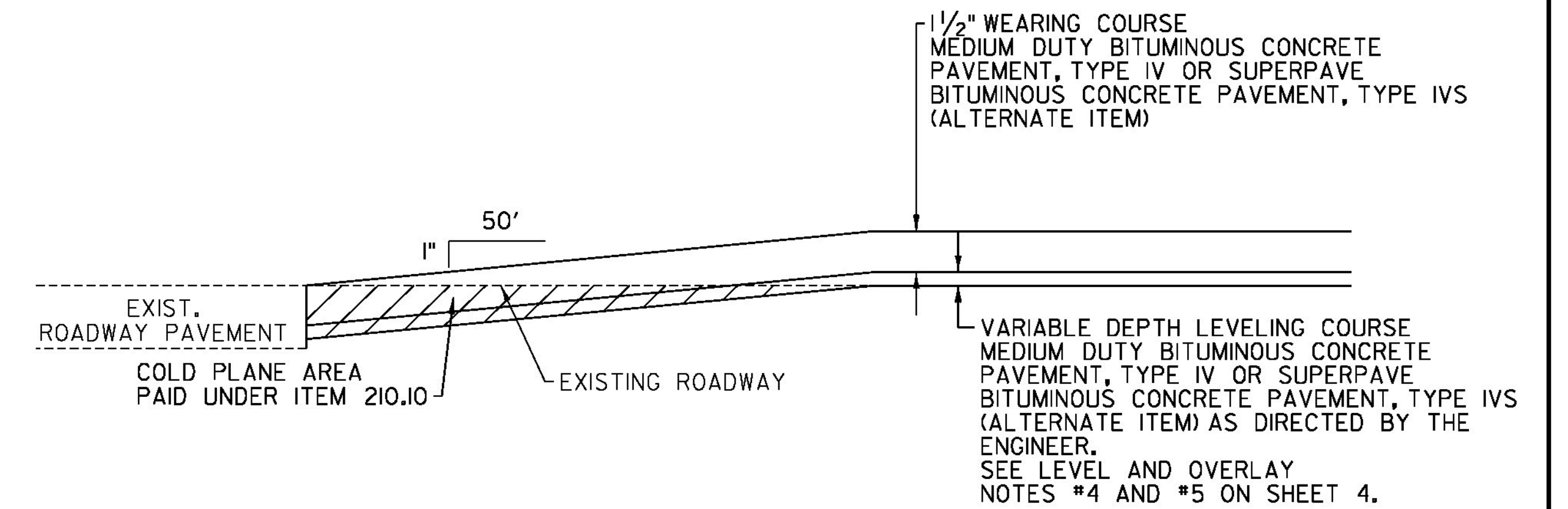
POMFRET	
P 0+00 - P 5+41	(3.5 FEET SHOULDERS)
P 5+41 - P 11+43	(4 FEET SHOULDERS)
P 11+43 - P 29+70	(3 FEET SHOULDERS)
P 29+70 - P 39+00	(4 FEET SHOULDERS)
P 39+00 - P 43+40	(3.5 FEET SHOULDERS)
P 43+40 - P 50+00	(3 FEET SHOULDERS)
P 50+00 - P 73+31	(3.5 FEET SHOULDERS)

BARNARD	
B 0+00 - B 14+50	(3.5 FEET SHOULDERS)
B 14+50 - B 28+96	(4 FEET SHOULDERS)
B 28+96 - B 29+80	(4.5 FEET SHOULDERS)
B 29+80 - B 42+68	(5 FEET SHOULDERS)
B 42+68 - B 63+52	(4.5 FEET SHOULDERS)
B 63+52 - B 64+50	(3.5 FEET SHOULDERS)
B 64+50 - B 119+72	(4 FEET SHOULDERS)
B 119+72 - B 130+25	(4.5 FEET SHOULDERS)
B 130+25 - B 141+30	(5 FEET SHOULDERS)
B 141+30 - B 144+50	(4.5 FEET SHOULDERS)
B 144+50 - B 164+97	(5 FEET SHOULDERS)



## BRIDGE APPROACH DETAIL

WOODSTOCK 77+82 - 79+07	BRIDGE #16
79+99 - 81+24	BRIDGE #16
159+21 - 160+46	BRIDGE #17
161+42 - 162+67	BRIDGE #17
170+07 - 171+32	BRIDGE #19
171+81 - 173+06	BRIDGE #19
184+63 - 185+88	BRIDGE #20
186+67 - 187+92	BRIDGE #20



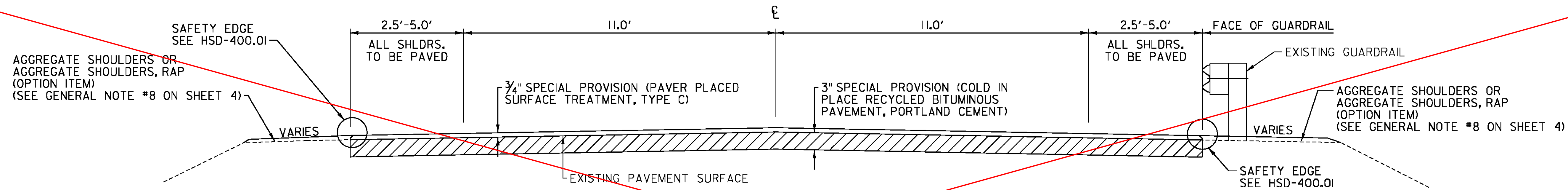
## MAINLINE APPROACH DETAIL

WOODSTOCK 37+49 - 38+74
BARNARD B 163+72 - B 164+97

NOT TO SCALE

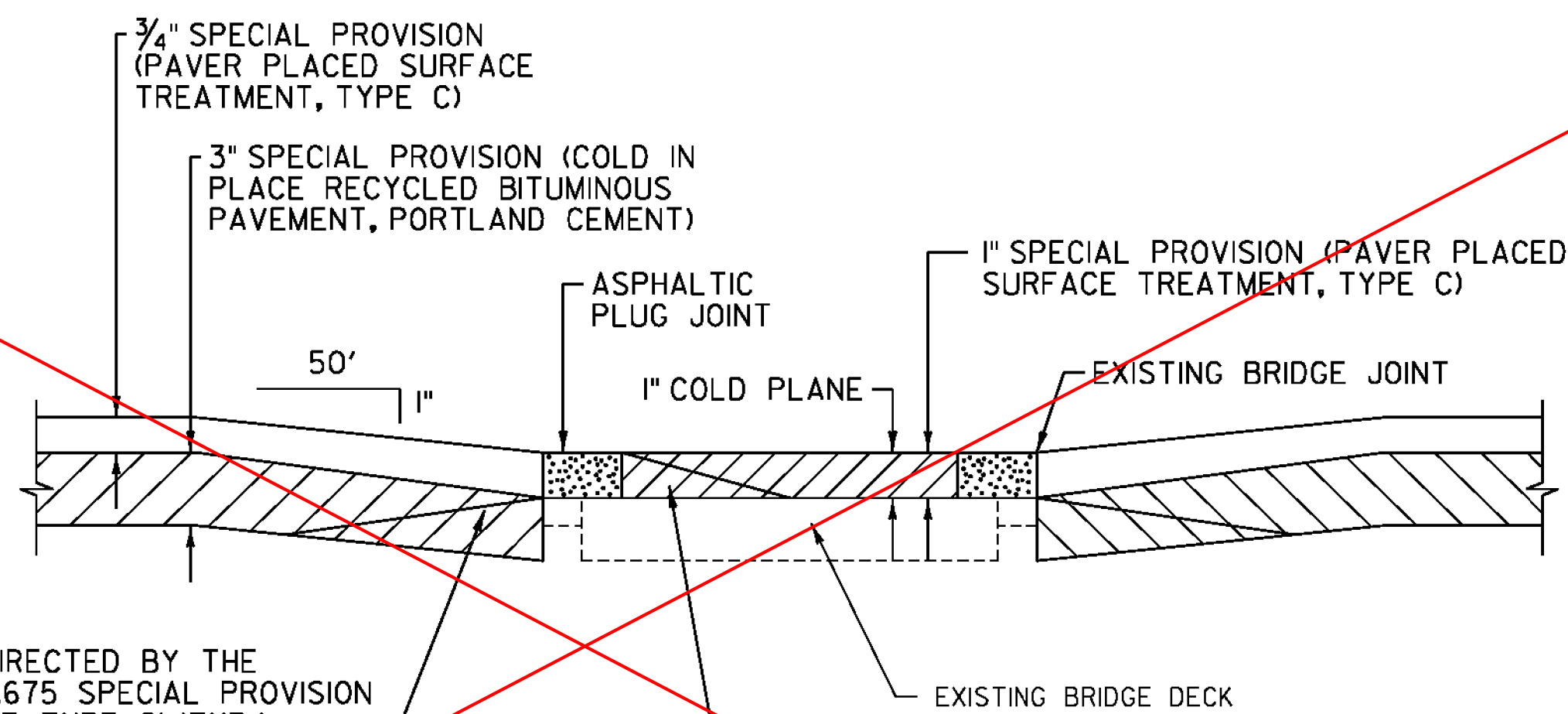
PROJECT NAME:	WOODSTOCK-BARNARD
PROJECT NUMBER:	STP FPAV(3)
FILE NAME:	z16v024frm.dgn
PROJECT LEADER:	P. SHEDD
DESIGNED BY:	N. LEMAY
TYPICAL SECTIONS SHEET 1	
PLOT DATE:	6/29/2016
DRAWN BY:	S. GOODWIN
CHECKED BY:	P. SHEDD
SHEET	5 OF 26

# ALTERNATE ZA5



## TYPICAL SECTION

WOODSTOCK	POMFRET	BARNARD
37+49 - 51+56 (3 FEET SHOULDERS)	P 0+00 - P 5+41 (3.5 FEET SHOULDERS)	B 0+00 - B 14+50 (3.5 FEET SHOULDERS)
51+56 - 55+02 (2.5 FEET SHOULDERS)	P 5+41 - P 11+43 (4 FEET SHOULDERS)	B 14+50 - B 28+96 (4 FEET SHOULDERS)
55+02 - 79+07 (3 FEET SHOULDERS)	P 11+43 - P 29+70 (3 FEET SHOULDERS)	B 28+96 - B 29+80 (4.5 FEET SHOULDERS)
79+07 - 80+67 (3.5 FEET SHOULDERS)	P 29+70 - P 39+00 (4 FEET SHOULDERS)	B 29+80 - B 42+68 (5 FEET SHOULDERS)
80+67 - 93+32 (4 FEET SHOULDERS)	P 39+00 - P 43+40 (3.5 FEET SHOULDERS)	B 42+68 - B 63+52 (4.5 FEET SHOULDERS)
93+32 - 106+36 (4.5 FEET SHOULDERS)	P 43+40 - P 50+00 (3 FEET SHOULDERS)	B 63+52 - B 64+50 (3.5 FEET SHOULDERS)
106+36 - 122+62 (4 FEET SHOULDERS)	P 50+00 - P 73+31 (3.5 FEET SHOULDERS)	B 64+50 - B 119+72 (4 FEET SHOULDERS)
122+62 - 132+00 (4.5 FEET SHOULDERS)		B 119+72 - B 130+25 (4.5 FEET SHOULDERS)
132+00 - 162+09 (4 FEET SHOULDERS)		B 130+25 - B 141+30 (5 FEET SHOULDERS)
162+09 - 166+02 (3 FEET SHOULDERS)		B 141+30 - B 144+50 (4.5 FEET SHOULDERS)
166+02 - 184+48 (4 FEET SHOULDERS)		B 144+50 - B 164+97 (5 FEET SHOULDERS)
184+48 - 188+00 (4.5 FEET SHOULDERS)		
188+00 - 194+14 (5 FEET SHOULDERS)		
194+14 - 198+86 (3.5 FEET SHOULDERS)		
198+86 - 210+77 (4 FEET SHOULDERS)		

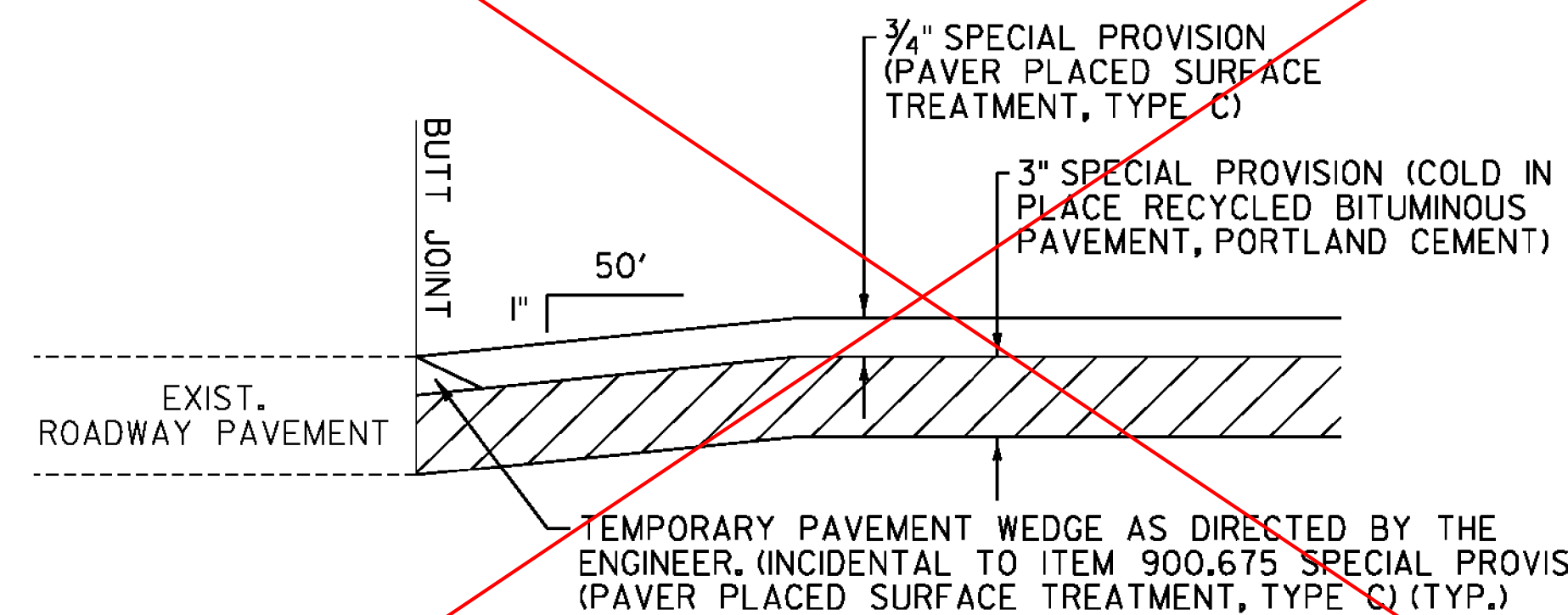


TEMPORARY PAVEMENT WEDGE AS DIRECTED BY THE ENGINEER, (INCIDENTAL TO ITEM 900.675 SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C) (TYP.))

TEMPORARY PAVEMENT WEDGE AS DIRECTED BY THE ENGINEER, (INCIDENTAL TO ITEM 900.675 SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C) (TYP.))

### BRIDGE APPROACH DETAIL

WOODSTOCK	78+57 - 79+07	BRIDGE #16
	79+99 - 80+49	BRIDGE #16
	159+96 - 160+46	BRIDGE #17
	161+42 - 161+92	BRIDGE #17
	170+82 - 171+32	BRIDGE #19
	171+81 - 172+31	BRIDGE #19
	185+38 - 185+88	BRIDGE #20
	186+67 - 187+17	BRIDGE #20



### MAINLINE APPROACH DETAIL

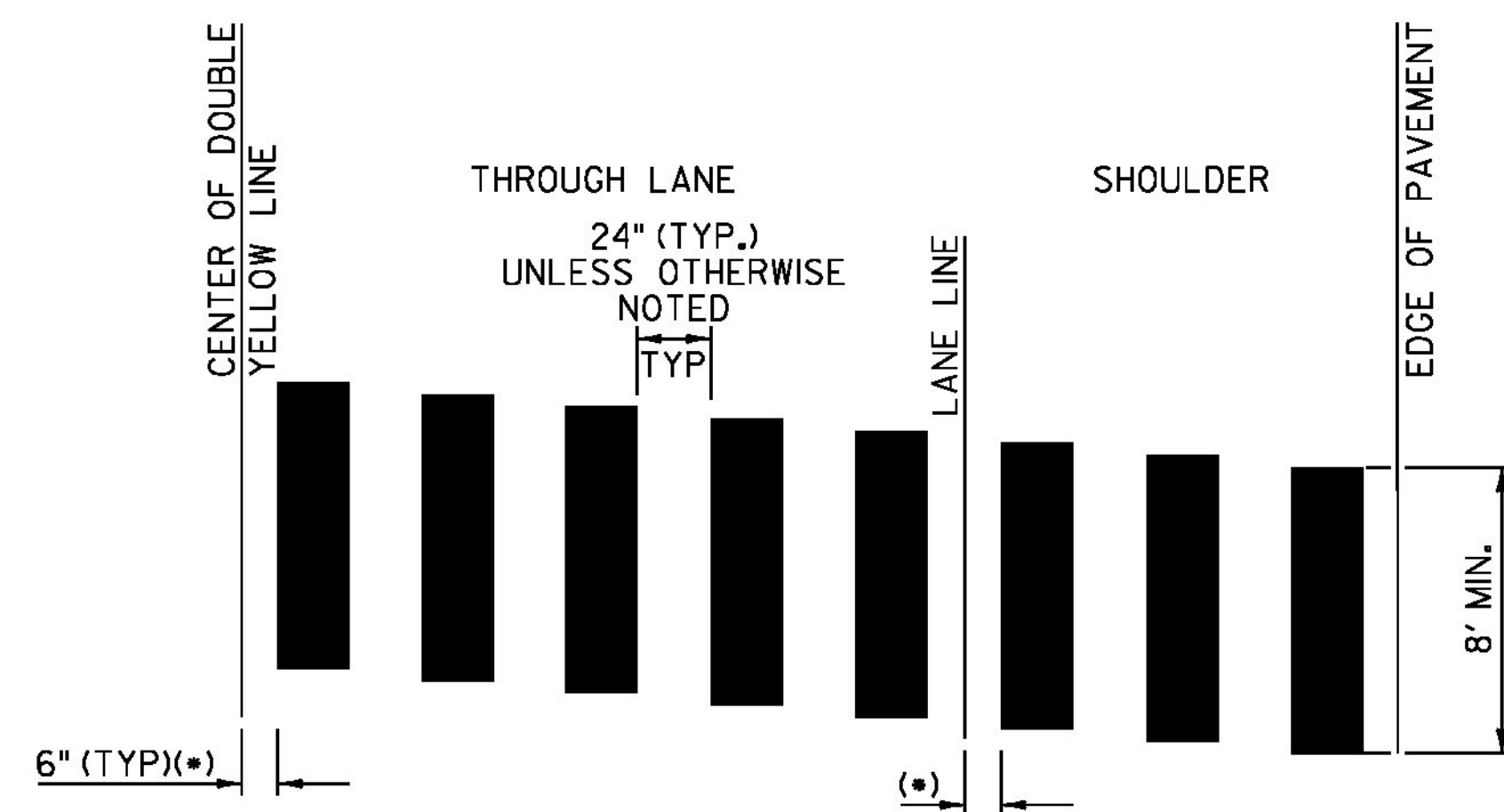
WOODSTOCK	37+49 - 37+99
BARNARD	B 164+47 - B 164+97

NOT TO SCALE

PROJECT NAME: WOODSTOCK-BARNARD  
PROJECT NUMBER: STP FPAV(3)

FILE NAME: z16v024frm.dgn  
PROJECT LEADER: P. SHEDD  
DESIGNED BY: N. LEMAY  
TYPICAL SECTIONS SHEET 2

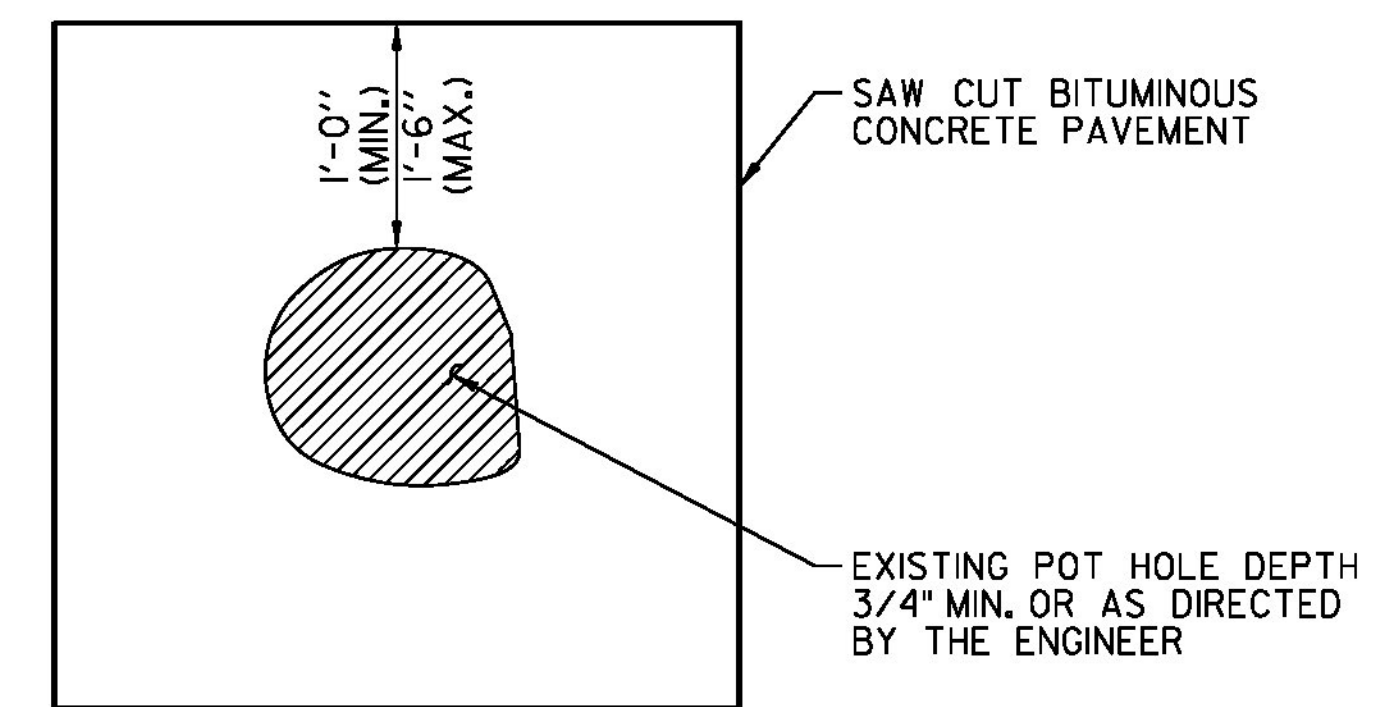
PLOT DATE: 6/29/2016  
DRAWN BY: S. GOODWIN  
CHECKED BY: P. SHEDD  
SHEET 6 OF 26



**BLOCK PATTERN CROSSWALK DETAIL**

**BLOCK PATTERN CROSSWALK NOTES**

1. THIS DETAIL IS CONFIGURED FOR AN 11 FOOT LANE.
2. MARK LIGHT STRING LINE ON PAVEMENT ACROSS ROADWAY (CURB TO CURB).
3. ESTABLISH THE CENTER LINE OF THE ROADWAY (DOUBLE YELLOW LINE OR LANE LINE).
4. BLOCKS ARE PARALLEL TO THE CENTERLINE (DOUBLE YELLOW LINE OR LANE LINE) (OFFSET BLOCKS VERTICALLY TO ACHIEVE REQUIRED SKEW).
5. ALWAYS START MEASURING FROM THE CENTERLINE OR LANE LINE RIGHT, WITH THE FLOW OF TRAFFIC.
6. PAINTED BLOCKS ARE 24 INCHES (TYPICAL).
- (*)7. ADJUST SPACING (12 INCHES-24 INCHES) TO AVOID WHEEL PATHS.



**TYPICAL POT HOLE REPAIR**

**TYPICAL POT HOLE REPAIR NOTES**

1. ITEM 404.65 EMULSIFIED ASPHALT OR ITEM 900.683 SPECIAL PROVISION (EMULSIFIED ASPHALT) (RS-IH OR CRS-IH) AS SPECIFIED IN EACH ALTERNATE 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).

NOT TO SCALE

PROJECT NAME: WOODSTOCK-BARNARD	
PROJECT NUMBER: STP FPAV(3)	
FILE NAME: z16v024frm.dgn	PLOT DATE: 6/28/2016
PROJECT LEADER: P. SHEDD	DRAWN BY: S. GOODWIN
DESIGNED BY: N. LEMAY	CHECKED BY: P. SHEDD
DETAIL SHEET	SHEET 7 OF 26

# QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
ROADWAY	BRIDGE	FULL C.E.	ROADWAY (ALTERNATE ZA1)	ROADWAY (ALTERNATE ZA2)	ROADWAY (ALTERNATE ZA3)	ROADWAY (ALTERNATE ZA4)	ROADWAY (ALTERNATE ZA5)	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS		
1								1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-			<b>COLD PLANING, BITUMINOUS PAVEMENT</b>		
1900								1900		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	16	389 SY		BEGIN PROJECT		
800								800		TON	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.28	EST.	296 SY		BRIDGE 16		
											BEGIN OPTION AA			320 SY		BRIDGE 17		
2600								2600		TON	AGGREGATE SHOULDERS	402.12	37	163 SY		BRIDGE 19		
2600								2600		TON	AGGREGATE SHOULDERS, RAP	402.13	37	272 SY		BRIDGE 20		
											END OPTION AA			444 SY		END PROJECT		
1								1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-	1884 SY		SUBTOTAL		
	120							120		LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	-	16 SY		ROUNDING		
	100							100		CF	RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE	580.20	EST.	1900 SY		TOTAL		
105								105		HR	POWER GRADER RENTAL	608.15	EST.					
190								190		HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST.					
55								55		HR	POWER BROOM RENTAL, TYPE I	608.30	EST.					
105								105		HR	POWER BROOM RENTAL, TYPE II	608.31	EST.					
380								380		HR	TRUCK RENTAL	608.37	EST.					
800								800		HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.					
3000								3000		HR	FLAGGERS	630.15	EST.					
		1						1		LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-					
1								1		LS	MOBILIZATION/DEMobilIZATION	635.11	-					
1								1		LS	TRAFFIC CONTROL	641.10	-					
2								2		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-					
82000								82000		LF	4 INCH WHITE LINE, WATERBORNE PAINT	646.201	584					
67500								67500		LF	4 INCH YELLOW LINE, WATERBORNE PAINT	646.2111	239					
30								30		LF	CROSSWALK MARKING, WATERBORNE PAINT	646.311	3					
82000								82000		LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.602	584					
67500								67500		LF	TEMPORARY 4 INCH YELLOW LINE, PAINT	646.612	239					
30								30		LF	TEMPORARY CROSSWALK MARKING, PAINT	646.702	3					
16600								16600		EACH	LINE STRIPING TARGETS	646.76	126					
1								1		LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	-					
990								990		SY	SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)	900.675	11					
											BEGIN ALTERNATE ZA1							
								1360		CWT	EMULSIFIED ASPHALT	404.65	6	11880 TON		ALTERNATE ZA1 TYPE IV, WEARING COURSE		
								17950		TON	MEDIUM DUTY BITUMINOUS CONCRETE PAVEMENT	406.27	52	5941 TON		TYPE IV, LEVELING COURSE		
								1		LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	406.28	-	77 TON		BRIDGES, TYPE IV, WEARING COURSE		
								50		TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE I)	900.680	-	17898 TON		SUBTOTAL		
											END ALTERNATE ZA1			52 TON		ROUNDING		
														17950 TON		TOTAL		

PROJECT NAME: WOODSTOCK-BARNARD  
PROJECT NUMBER: STP FPAV(3)  
FILE NAME: z16v024frrm.dgn PLOT DATE: 6/28/2016  
PROJECT LEADER: P. SHEDD DRAWN BY: S. GOODWIN  
DESIGNED BY: N. LEMAY CHECKED BY: P. SHEDD  
QUANTITY SHEET 1 SHEET 8 OF 26

# QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
ROADWAY	BRIDGE	FULL C.E.	ROADWAY (ALTERNATE ZA1)	ROADWAY (ALTERNATE ZA2)	ROADWAY (ALTERNATE ZA3)	ROADWAY (ALTERNATE ZA4)	ROADWAY (ALTERNATE ZA5)	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS		
											BEGIN ALTERNATE ZA2							
								<del>17960</del>	<del>17960</del>	TON	<del>MEDIUM DUTY BITUMINOUS CONCRETE PAVEMENT</del>	<del>406.27</del>	<del>52</del>	<del>11880</del>	TON	<del>ALTERNATE ZA2 TYPE IV, WEARING COURSE</del>		
								<del>1</del>	<del>1</del>	LU	<del>AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)</del>	<del>406.28</del>	<del>-</del>	<del>5941</del>	TON	<del>TYPE IV, LEVELING COURSE</del>		
								<del>50</del>	<del>50</del>	TON	<del>SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE I)</del>	<del>900.680</del>	<del>-</del>	<del>77</del>	TON	<del>BRIDGES, TYPE IV, WEARING COURSE</del>		
								<del>1360</del>	<del>1360</del>	CWT	<del>SPECIAL PROVISION (EMULSIFIED ASPHALT) (RS-1H OR CRS-1H)</del>	<del>900.683</del>	<del>6</del>	<del>17898</del>	TON	<del>SUBTOTAL</del>		
											END ALTERNATE ZA2			<del>52</del>	TON	<del>ROUNDING</del>		
											BEGIN ALTERNATE ZA3			<del>17950</del>	TON	<del>TOTAL</del>		
											EMULSIFIED ASPHALT	404.65	6					
											SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	52					
											AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-					
											SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE I)	900.680	-					
											END ALTERNATE ZA3							
											BEGIN ALTERNATE ZA4							
											SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	52					
											AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-					
											SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE I)	900.680	-					
											SPECIAL PROVISION (EMULSIFIED ASPHALT) (RS-1H OR CRS-1H)	900.683	6					
											END ALTERNATE ZA4							
											BEGIN ALTERNATE ZA5							
											SPECIAL PROVISION (COLD IN PLACE RECYCLED BITUMINOUS PAVEMENT, PORTLAND CEMENT)	900.675	222					
											SPECIAL PROVISION (PAVER PLACED SURFACE TREATMENT, TYPE C)	900.675	169					
											SPECIAL PROVISION (AGGREGATE TO MEET COLD MIXED GRADATION)	900.680	EST.					
											SPECIAL PROVISION (PORTLAND CEMENT FOR COLD MIX RECYCLING)	900.680	3					
											SPECIAL PROVISION (EMULSIFIED ASPHALT, COLD MIX WITH CEMENT)	900.683	-					
											SPECIAL PROVISION (FOG SEAL SURFACE TREATMENT)	900.683	8					
											END ALTERNATE ZA5							

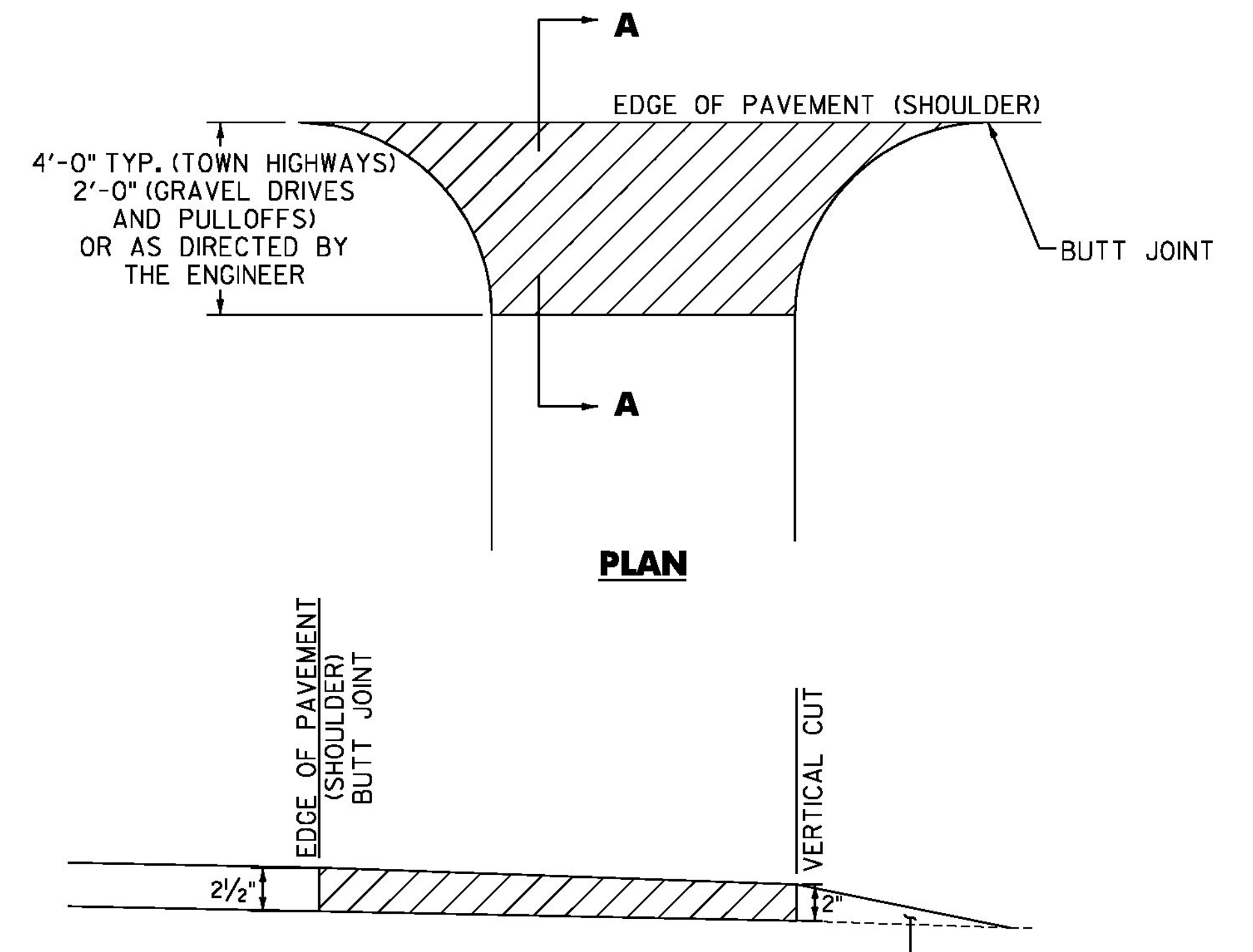
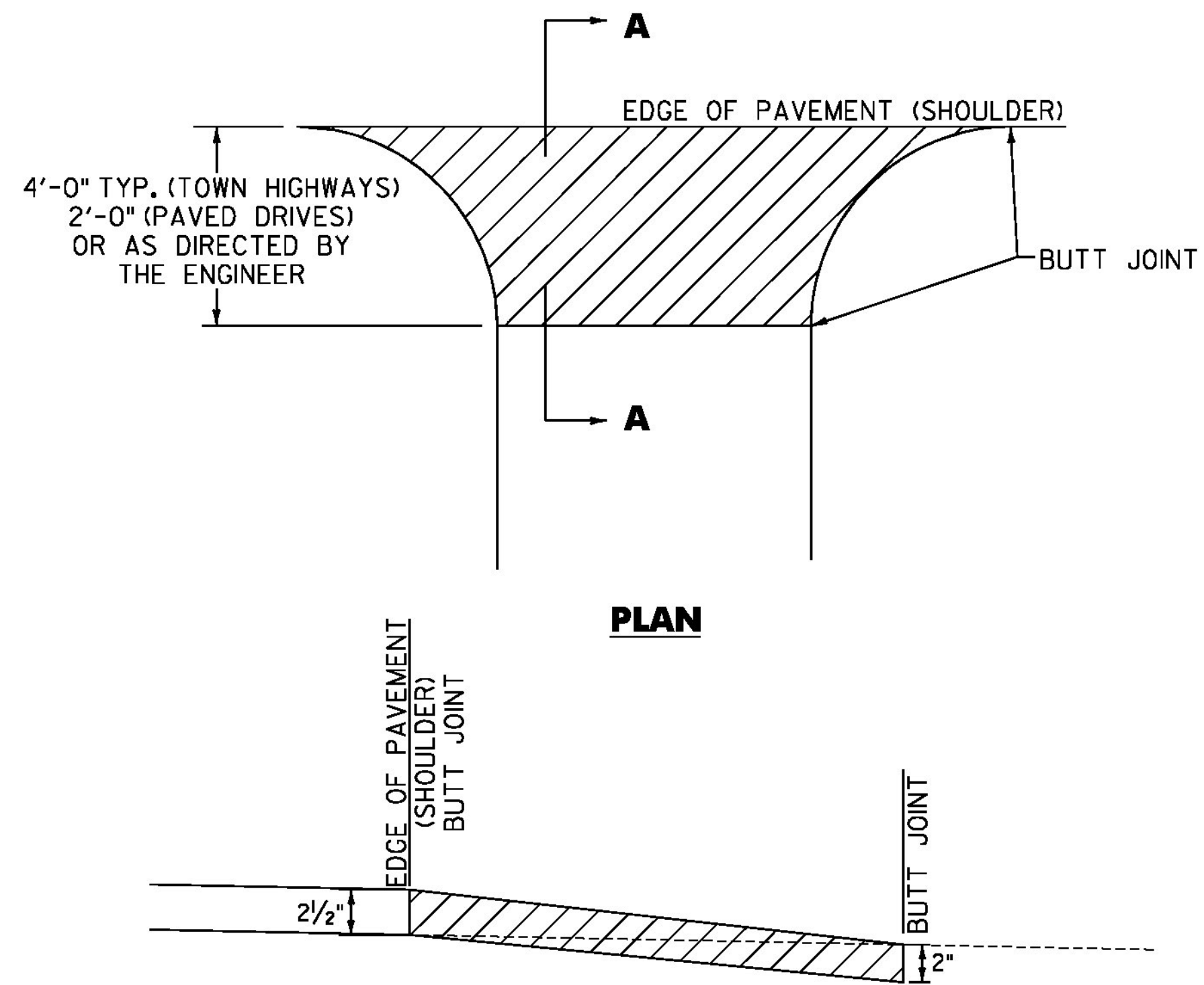
PROJECT NAME: WOODSTOCK-BARNARD  
PROJECT NUMBER: STP FPAV(3)  
FILE NAME: z16v024frm.dgn  
PROJECT LEADER: P. SHEDD  
DESIGNED BY: N. LEMAY  
QUANTITY SHEET 2  
PLOT DATE: 7/22/2016  
DRAWN BY: S. GOODWIN  
CHECKED BY: P. SHEDD  
SHEET 9 OF 26

ADDED	DATE	DESCRIPTION	BY
△	7/22/2016	QUANTITY REVISED	PTS

## LOCATION OF DRIVES

STATION	POSTION	QUANTITY (SY)
<b>DRIVES</b>		
49+01	LT	3
51+36	RT	3
51+49	LT	3
52+71	LT	5
53+33	RT	8
57+80	RT	4
58+17	LT	3
58+74	LT	3
59+06	RT	5
59+73	LT	8
61+16	RT	5
78+52	LT	4
85+32	RT	6
93+49	RT	8
101+83	RT	5
106+00	RT	16
109+92	RT	4
117+37	RT	12
118+17	RT	6
122+08	LT	10
126+70	RT	6
132+15	RT	7
138+92	LT	10
163+17	RT	3
169+44	RT	5
170+42	LT	4
172+17	RT	7
174+71	RT	4
177+12	RT	5
183+03	RT	5
184+00	LT	5
187+59	RT	6
195+88	LT	8
195+95	RT	4
201+41	RT	5
202+24	LT	5
206+23	RT	4
206+32	LT	8
208+10	LT	4
P 0+10	RT	2
P 1+63	RT	3
P 1+80	LT	4
P 2+66	LT	11
P 4+29	RT	3
P 12+52	RT	4
P 15+57	RT	9
P 36+19	RT	4
P 43+49	LT	4
P 44+26	LT	4
P 44+26	RT	4
P 45+36	LT	3
P 46+91	RT	10
P 72+18	RT	6
B 1+32	RT	5
B 8+56	LT	3
B 14+56	LT	3
B 18+26	LT	2
B 23+93	RT	6

STATION	POSTION	QUANTITY (SY)
B 38+88	RT	2
B 42+77	LT	4
B 43+90	RT	2
B 57+75	RT	3
B 59+43	RT	3
B 61+65	RT	4
B 62+81	RT	2
B 66+86	LT	3
B 73+08	RT	3
B 81+14	RT	4
B 83+68	RT	3
B 86+73	RT	2
B 87+87	LT	2
B 88+67	RT	4
B 93+04	RT	4
B 115+96	RT	2
B 118+51	LT	14
B 125+22	LT	6
B 125+54	RT	5
B 138+12	RT	2
B 144+23	RT	6
B 144+40	LT	5
B 154+89	LT	2
B 155+22	RT	3
<b>DRIVES SUBTOTAL</b>		<b>406</b>
<b>PULLOFFS</b>		
P 25+43	LT	190
P 65+26	LT	38
<b>PULLOFFS SUBTOTAL</b>		<b>228</b>
<b>TOWN HIGHWAYS</b>		
59+54	RT	47
81+10	RT	26
107+82	LT	25
122+74	RT	22
159+68	RT	61
167+06	LT	49
173+89	LT	25
P 13+07	LT	14
B 29+20	RT	21
B 45+03	LT	29
B 119+11	LT	26
<b>TOWN HIGHWAYS SUBTOTAL</b>		<b>345</b>
<b>DRIVES SUBTOTAL</b>		<b>406</b>
<b>PULLOFFS SUBTOTAL</b>		<b>228</b>
<b>TOWN HIGHWAYS SUBTOTAL</b>		<b>345</b>
<b>PROJECT SUBTOTAL</b>		<b>979</b>
<b>ROUNDING</b>		<b>11</b>
<b>PROJECT TOTAL</b>		<b>990</b>



IF ADDITIONAL MATERIAL IS REQUIRED THE CONTRACTOR SHALL USE AGGREGATE SHOULDERS OR AGGREGATE SHOULDERS, RAP PER SECTION 402. (PAYMENT WILL BE INCIDENTAL TO ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES))

### NOTES

- PAVING LIFT NOT TO EXCEED TWO INCHES.
- THE COST OF PLACING SUBBASE MATERIAL, CLEANING EXISTING PAVED SURFACES, INCLUDING POWER EQUIPMENT, AND FOR FILLING JOINTS, CRACKS AND HOLES AT LEAST 24 HOURS BEFORE PAVING, WILL NOT BE PAID DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 900.675, SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES).
- EXCAVATION NEEDED TO ACHIEVE PROPER DRIVE AND PULLOFF SLOPES WILL NOT BE PAID DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 900.675, SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES).
- EMULSIFIED ASPHALT FOR DRIVES, PULLOFFS AND TOWN HIGHWAYS WILL BE CONSIDERED INCIDENTAL TO ITEM 900.675, SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES).

### LEGEND

ITEM 900.675 - SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)

NOT TO SCALE

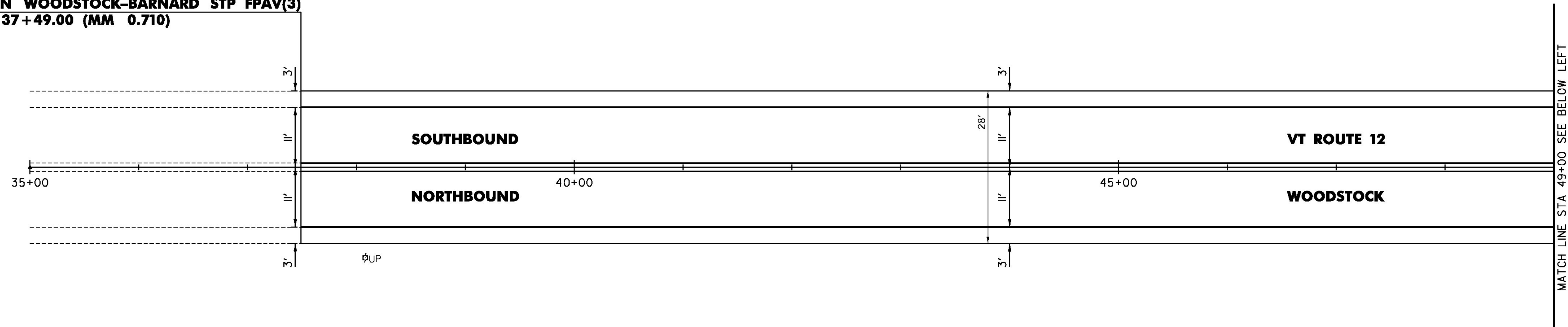
PROJECT NAME:	WOODSTOCK-BARNARD
PROJECT NUMBER:	STP FPAV(3)
FILE NAME: z16v024frm.dgn	PLOT DATE: 6/28/2016
PROJECT LEADER: P. SHEDD	DRAWN BY: S. GOODWIN
DESIGNED BY: N. LEMAY	CHECKED BY: P. SHEDD
HANDWORK DETAIL SHEET	SHEET 10 OF 26

TEMPORARY 4 INCH WHITE LINE, PAINT  
 4 INCH WHITE LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE EDGE LINE  
 BREAKS AND RADII FOR SIDE ROADS)  
 37+49 TO 63+00 LT & RT (SOLID)

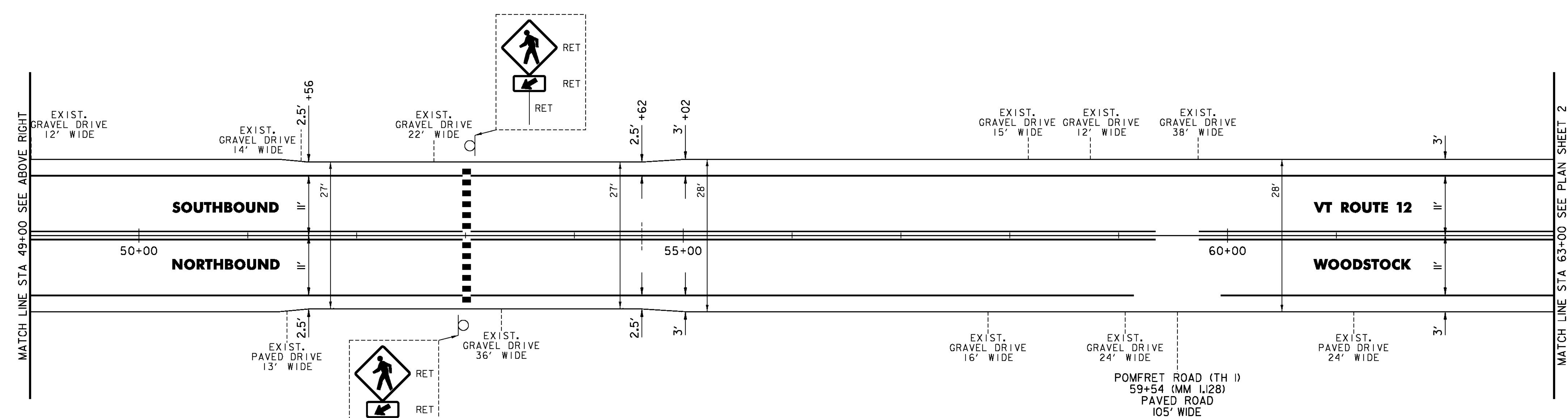
TEMPORARY 4 INCH YELLOW LINE, PAINT  
 4 INCH YELLOW LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE  $\phi$   
 BREAKS FOR SIDE ROADS)  
 37+49 TO 63+00 LT & RT (SOLID)

TEMPORARY CROSSWALK MARKING, PAINT  
 CROSSWALK MARKING, WATERBORNE PAINT  
 53+01 LT TO RT (27')

**BEGIN WOODSTOCK-BARNARD STP FPAV(3)**  
**STA 37+49.00 (MM 0.710)**



MATCH LINE STA 49+00 SEE BELOW LEFT



MATCH LINE STA 49+00 SEE ABOVE RIGHT

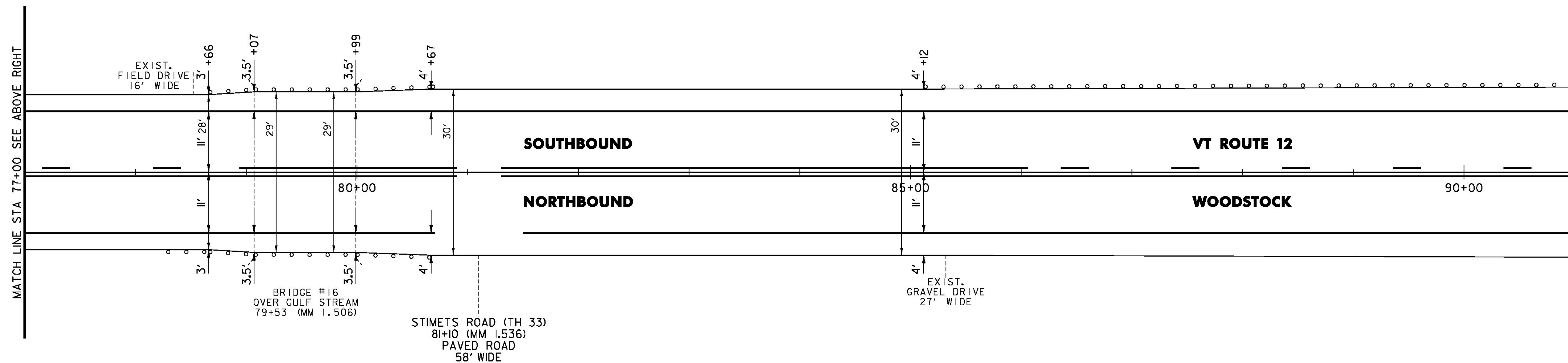
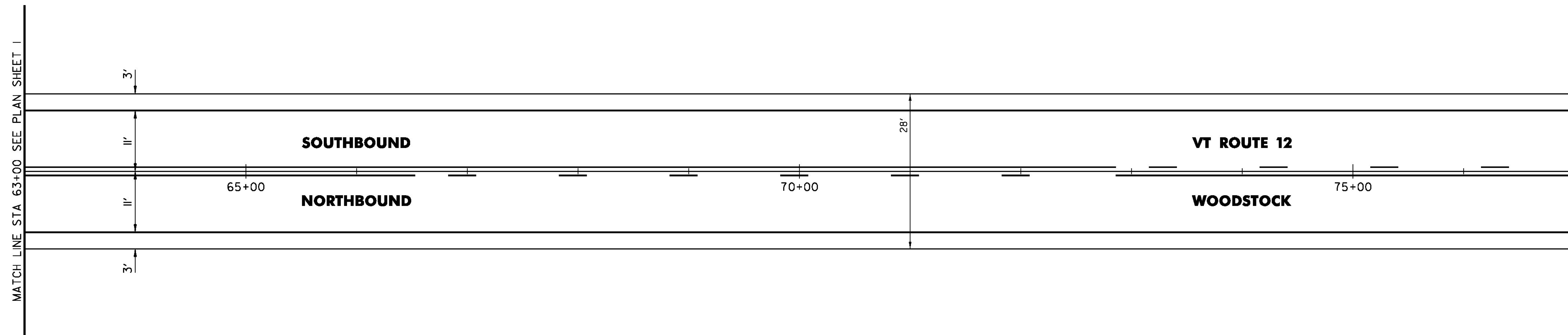
MATCH LINE STA 63+00 SEE PLAN SHEET 2

NOT TO SCALE

PROJECT NAME:	WOODSTOCK-BARNARD
PROJECT NUMBER:	STP FPAV(3)
FILE NAME:	z16v024bdr.dgn
PROJECT LEADER:	P. SHEDD
DESIGNED BY:	N. LEMAY
PLAN SHEET I	
PLOT DATE:	6/2/2016
DRAWN BY:	S. GOODWIN
CHECKED BY:	P. SHEDD
SHEET	II OF 26

TEMPORARY 4 INCH WHITE LINE, PAINT  
 4 INCH WHITE LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE EDGE LINE  
 BREAKS AND RADII FOR SIDE ROADS)  
 63+00 TO 91+00 LT & RT (SOLID)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
 4 INCH YELLOW LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE  $\phi$   
 BREAKS FOR SIDE ROADS)  
 63+00 TO 66+53 LT & RT (SOLID)  
 66+53 TO 72+86 LT (SOLID), RT (DASHED)  
 72+86 TO 78+94 LT (DASHED), RT (SOLID)  
 78+94 TO 86+06 LT & RT (SOLID)  
 86+06 TO 91+00 LT (DASHED), RT (SOLID)

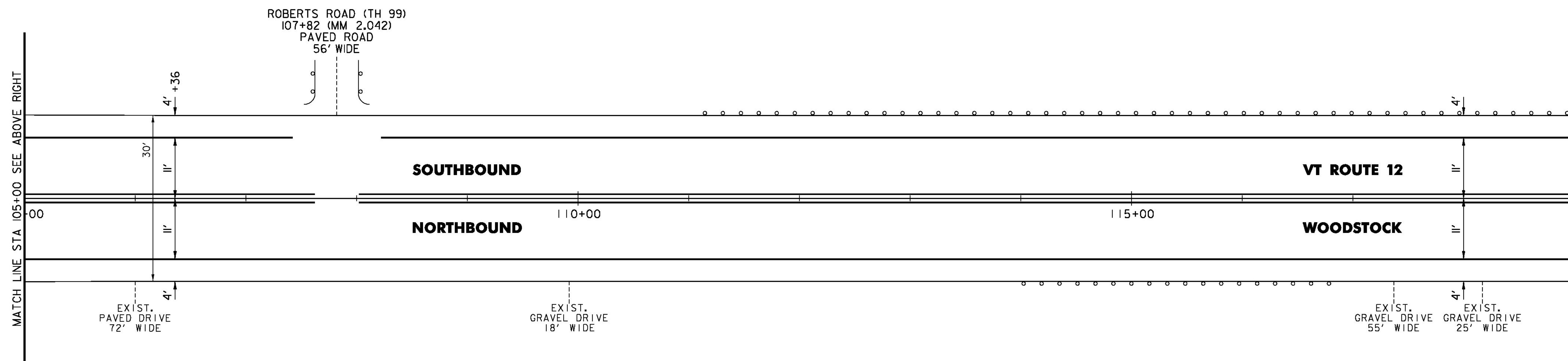
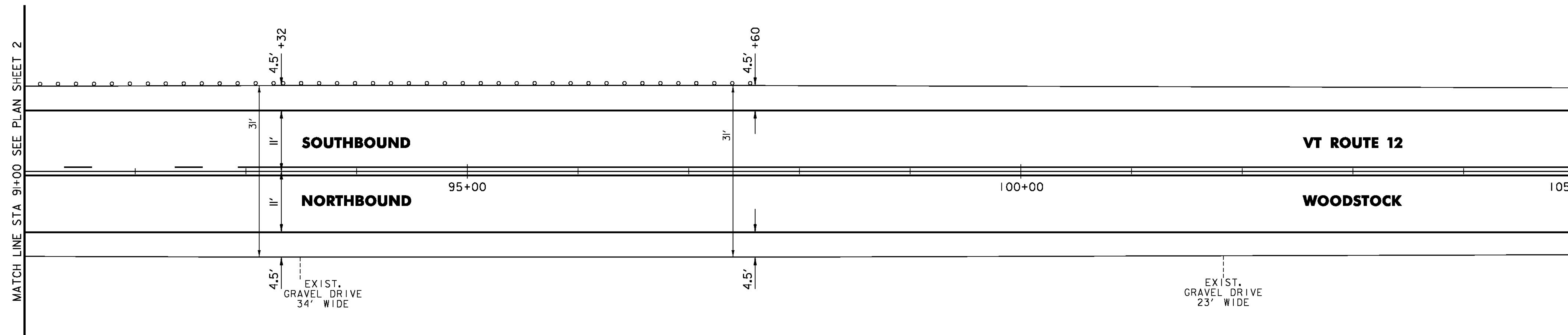


NOT TO SCALE

PROJECT NAME:	WOODSTOCK-BARNARD
PROJECT NUMBER:	STP FPAV(3)
FILE NAME:	z16v024bdr.dgn
PROJECT LEADER:	P. SHEDD
DESIGNED BY:	N. LEMAY
PLAN SHEET 2	
PLOT DATE:	6/2/2016
DRAWN BY:	S. GOODWIN
CHECKED BY:	P. SHEDD
SHEET	12 OF 26

TEMPORARY 4 INCH WHITE LINE, PAINT  
 4 INCH WHITE LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE EDGE LINE  
 BREAKS AND RADII FOR SIDE ROADS)  
 91+00 TO 119+00 LT & RT (SOLID)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
 4 INCH YELLOW LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE C  
 BREAKS FOR SIDE ROADS)  
 91+00 TO 92+93 LT (DASHED), RT (SOLID)  
 92+93 TO 119+00 LT & RT (SOLID)



PROJECT NAME: WOODSTOCK-BARNARD  
 PROJECT NUMBER: STP FPAV(3)

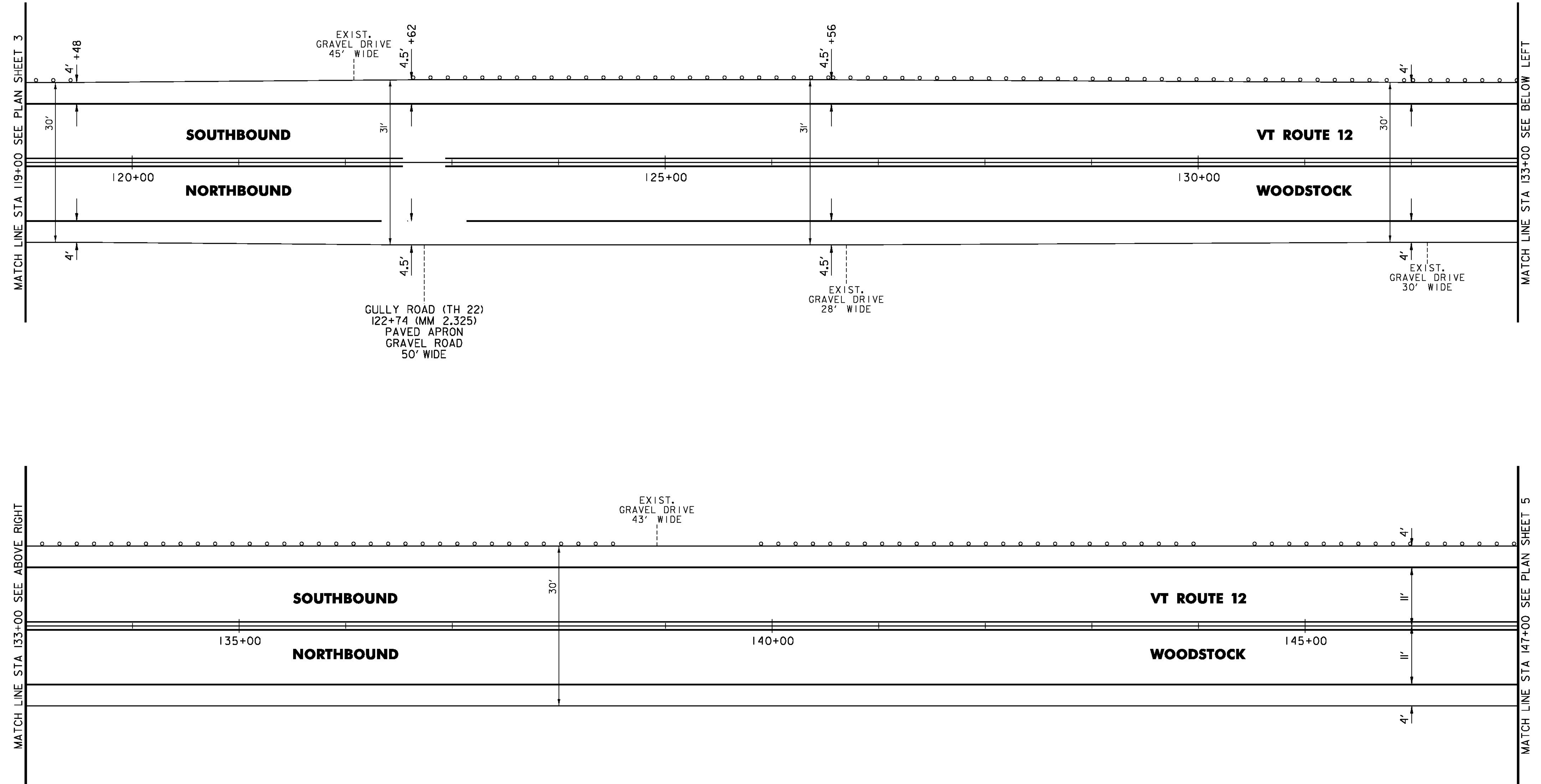
FILE NAME: z16v024bdr.dgn  
 PROJECT LEADER: P. SHEDD  
 DESIGNED BY: N. LEMAY  
 PLAN SHEET 3

PLOT DATE: 6/2/2016  
 DRAWN BY: S. GOODWIN  
 CHECKED BY: P. SHEDD  
 SHEET 13 OF 26

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT  
 4 INCH WHITE LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE EDGE LINE  
 BREAKS AND RADII FOR SIDE ROADS)  
 119+00 TO 147+00 LT & RT (SOLID)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
 4 INCH YELLOW LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE  $\phi$   
 BREAKS FOR SIDE ROADS)  
 119+00 TO 147+00 LT & RT (SOLID)

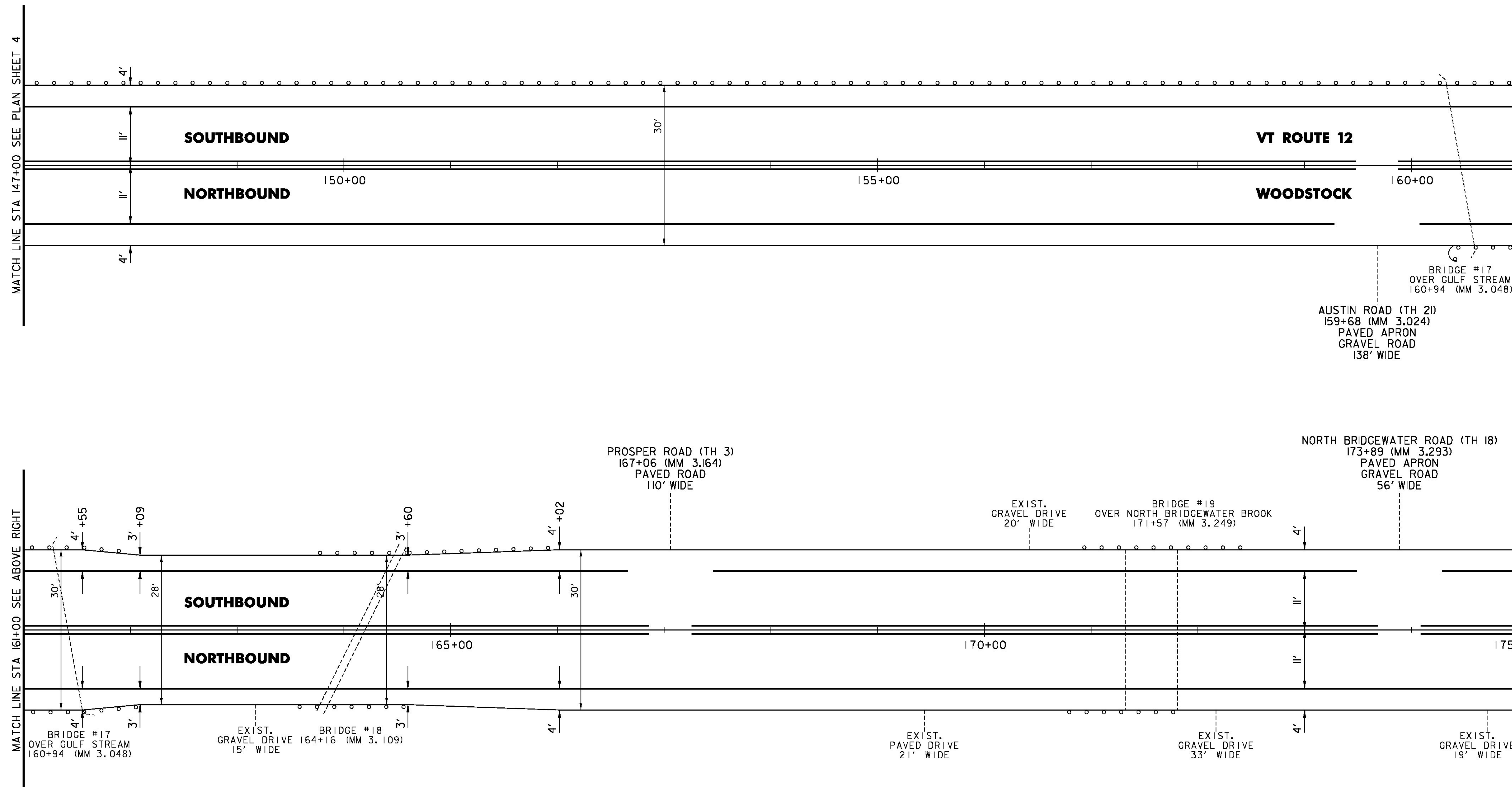


NOT TO SCALE

PROJECT NAME:	WOODSTOCK-BARNARD
PROJECT NUMBER:	STP FPAV(3)
FILE NAME:	z16v024bdr.dgn
PROJECT LEADER:	P. SHEDD
DESIGNED BY:	N. LEMAY
PLAN SHEET 4	
PLOT DATE:	6/2/2016
DRAWN BY:	S. GOODWIN
CHECKED BY:	P. SHEDD
SHEET 14	OF 26

TEMPORARY 4 INCH WHITE LINE, PAINT  
 4 INCH WHITE LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE EDGE LINE  
 BREAKS AND RADII FOR SIDE ROADS)  
 147+00 TO 175+00 LT & RT (SOLID)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
 4 INCH YELLOW LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE  $\phi$   
 BREAKS FOR SIDE ROADS)  
 147+00 TO 175+00 LT & RT (SOLID)

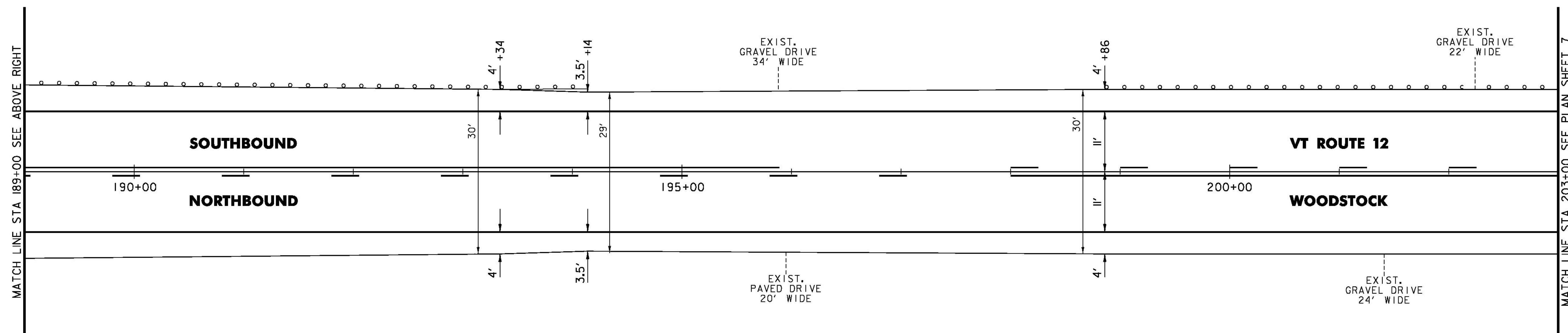
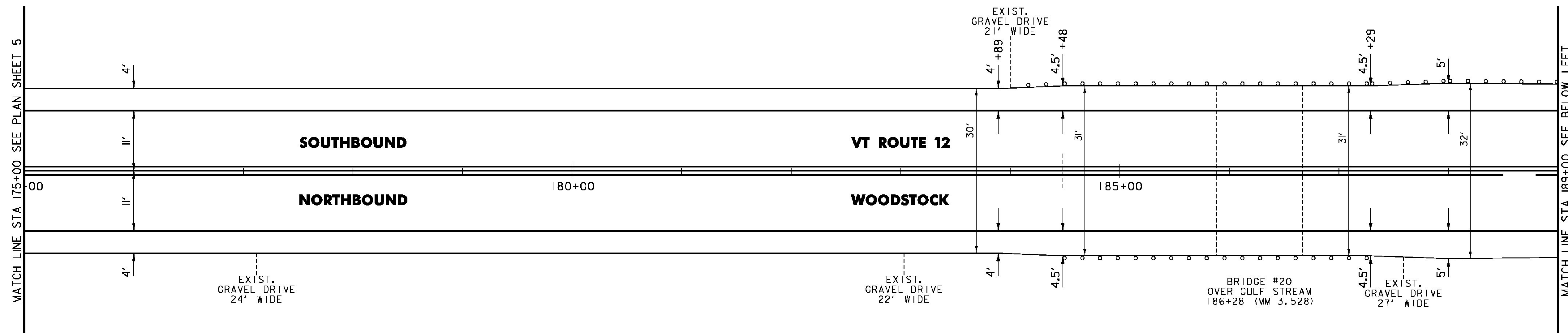


NOT TO SCALE

PROJECT NAME:	WOODSTOCK-BARNARD
PROJECT NUMBER:	STP FPAV(3)
FILE NAME:	z16v024bdr.dgn
PROJECT LEADER:	P. SHEDD
DESIGNED BY:	N. LEMAY
PLAN SHEET 5	
PLOT DATE:	6/2/2016
DRAWN BY:	S. GOODWIN
CHECKED BY:	P. SHEDD
SHEET 15	OF 26

TEMPORARY 4 INCH WHITE LINE, PAINT  
 4 INCH WHITE LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE EDGE LINE  
 BREAKS AND RADII FOR SIDE ROADS)  
 175+00 TO 203+00 LT & RT (SOLID)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
 4 INCH YELLOW LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE CL  
 BREAKS FOR SIDE ROADS)  
 175+00 TO 188+50 LT & RT (SOLID)  
 188+50 TO 195+89 LT (SOLID), RT (DASHED)  
 195+89 TO 198+00 CL (DASHED)  
 198+00 TO 203+00 LT (DASHED), RT (SOLID)

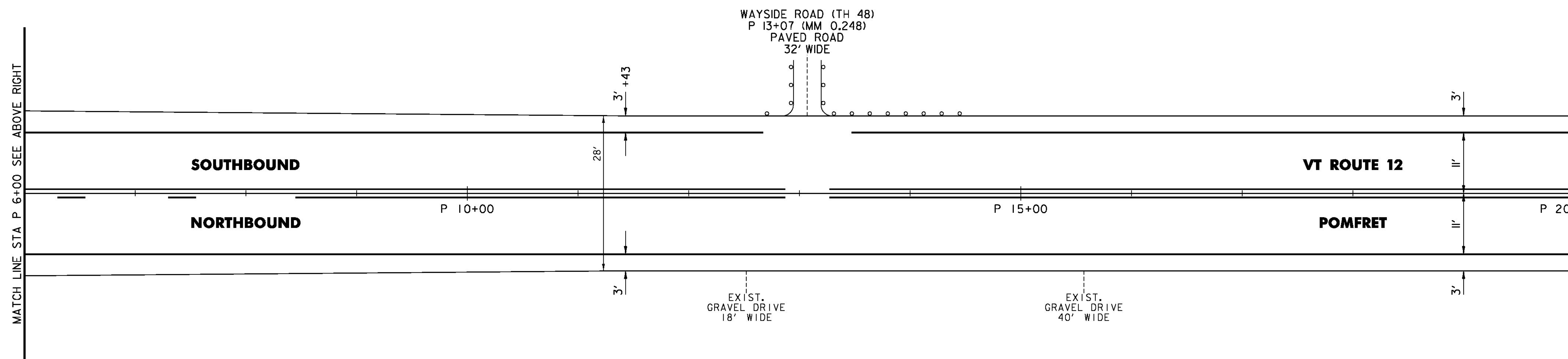
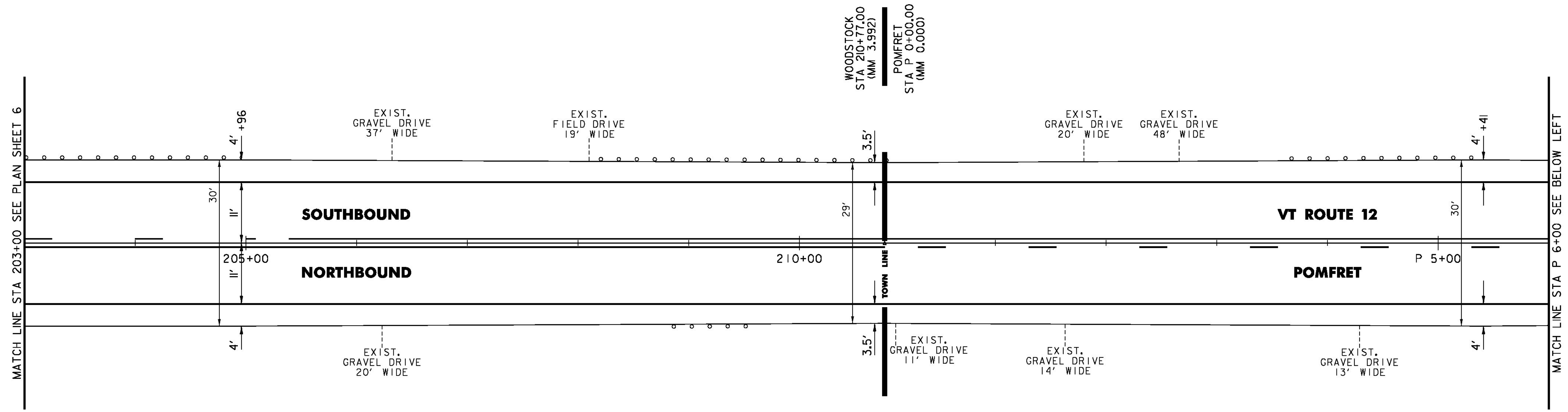


NOT TO SCALE

PROJECT NAME:	WOODSTOCK-BARNARD
PROJECT NUMBER:	STP FPAV(3)
FILE NAME:	z16v024bdr.dgn
PROJECT LEADER:	P. SHEDD
DESIGNED BY:	N. LEMAY
PLAN SHEET 6	
PLOT DATE:	6/2/2016
DRAWN BY:	S. GOODWIN
CHECKED BY:	P. SHEDD
SHEET 16	OF 26

TEMPORARY 4 INCH WHITE LINE, PAINT  
 4 INCH WHITE LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE EDGE LINE  
 BREAKS AND RADII FOR SIDE ROADS)  
 203+00 TO P 20+00 LT & RT (SOLID)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
 4 INCH YELLOW LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE  $\phi$   
 BREAKS FOR SIDE ROADS)  
 203+00 TO 205+39 LT (DASHED), RT (SOLID)  
 205+39 TO 210+77 LT & RT (SOLID)  
 P 0+00 TO P 8+45 LT (SOLID), RT (DASHED)  
 P 8+45 TO P 20+00 LT & RT (SOLID)

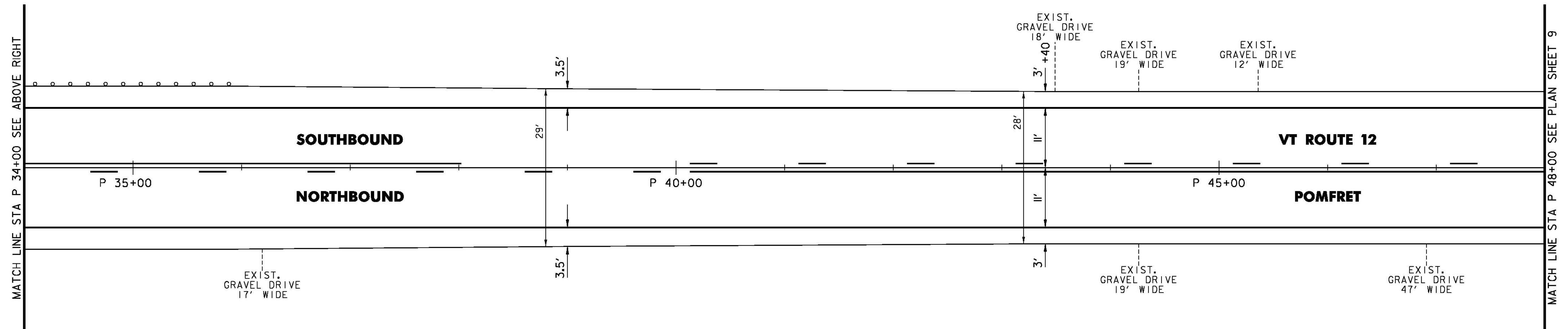
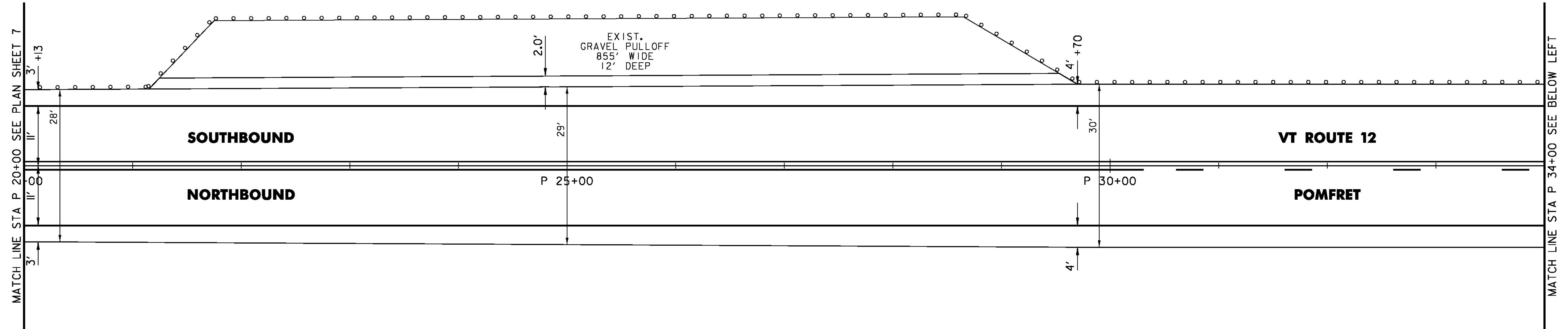


NOT TO SCALE

PROJECT NAME:	WOODSTOCK-BARNARD
PROJECT NUMBER:	STP FPAV(3)
FILE NAME:	z16v024bdr.dgn
PROJECT LEADER:	P. SHEDD
DESIGNED BY:	N. LEMAY
PLAN SHEET	7
PLOT DATE:	6/2/2016
DRAWN BY:	S. GOODWIN
CHECKED BY:	P. SHEDD
SHEET	17 OF 26

TEMPORARY 4 INCH WHITE LINE, PAINT  
 4 INCH WHITE LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE EDGE LINE  
 BREAKS AND RADII FOR SIDE ROADS)  
 P 20+00 TO P 48+00 LT & RT (SOLID)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
 4 INCH YELLOW LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE  $\phi$   
 BREAKS FOR SIDE ROADS)  
 P 20+00 TO P 30+31 LT & RT (SOLID)  
 P 30+31 TO P 38+02 LT (SOLID), RT (DASHED)  
 P 38+02 TO P 40+13 CL (DASHED)  
 P 40+13 TO P 48+00 LT (DASHED), RT (SOLID)



NOT TO SCALE

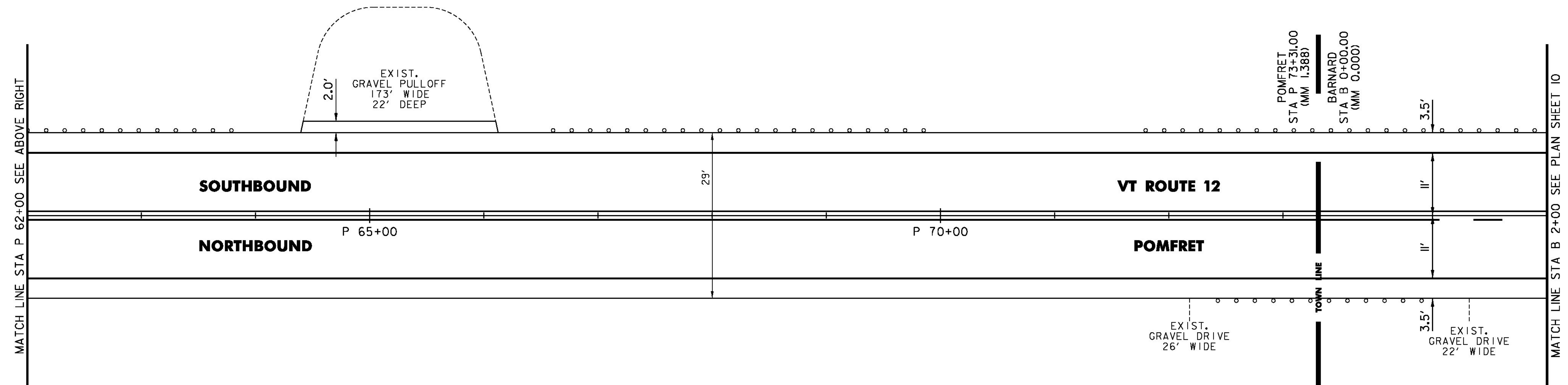
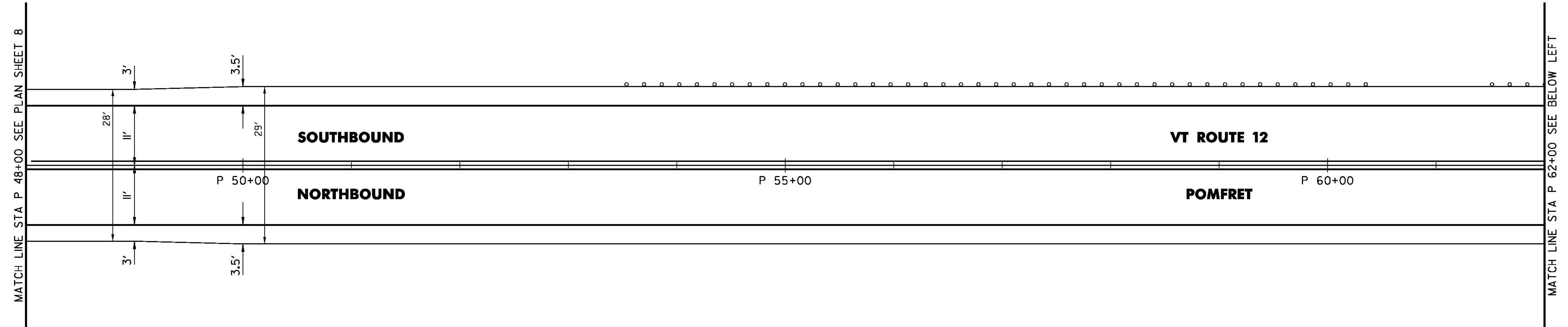
PROJECT NAME: WOODSTOCK-BARNARD  
 PROJECT NUMBER: STP FPAV(3)

FILE NAME: z16v024bdr.dgn  
 PROJECT LEADER: P. SHEDD  
 DESIGNED BY: N. LEMAY  
 PLAN SHEET 8

PLOT DATE: 6/2/2016  
 DRAWN BY: S. GOODWIN  
 CHECKED BY: P. SHEDD  
 SHEET 18 OF 26

TEMPORARY 4 INCH WHITE LINE, PAINT  
 4 INCH WHITE LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE EDGE LINE  
 BREAKS AND RADII FOR SIDE ROADS)  
 P 48+00 TO B 2+00 LT & RT (SOLID)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
 4 INCH YELLOW LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE  $\phi$   
 BREAKS FOR SIDE ROADS)  
 P 48+00 TO P 48+05 LT (DASHED), RT (SOLID)  
 P 48+05 TO B 1+06 LT & RT (SOLID)  
 B 1+06 TO B 2+00 LT (SOLID), RT (DASHED)

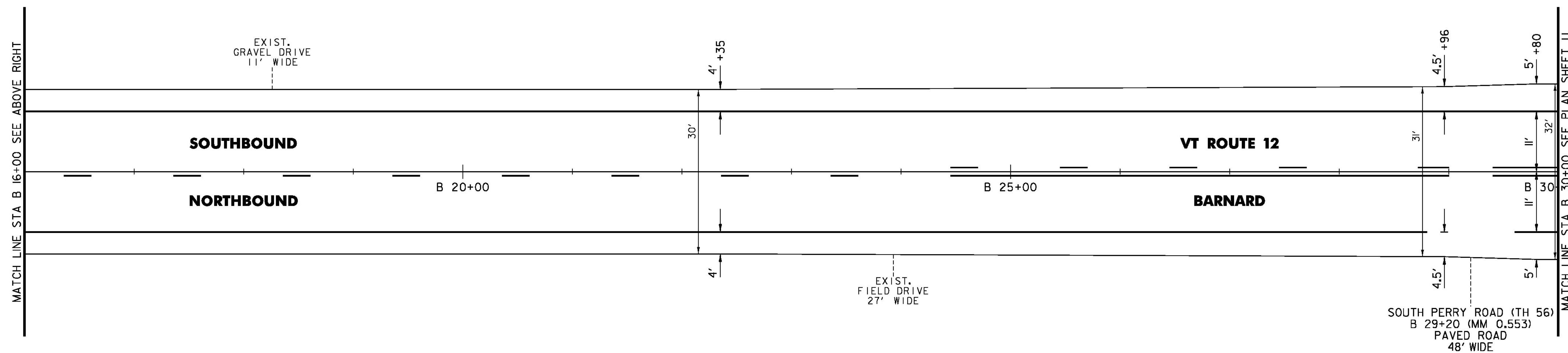
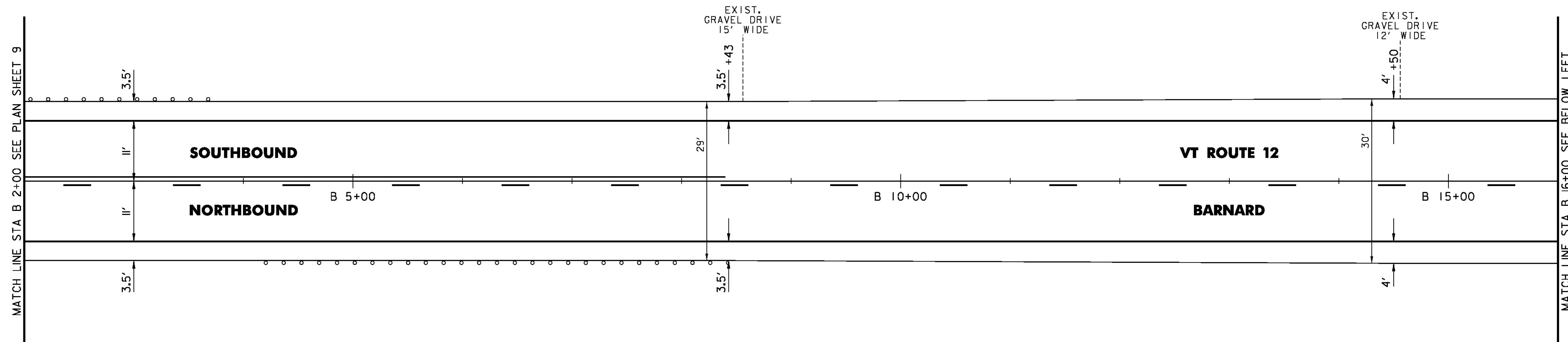


PROJECT NAME:	WOODSTOCK-BARNARD
PROJECT NUMBER:	STP FPAV(3)
FILE NAME:	z16v024bdr.dgn
PROJECT LEADER:	P. SHEDD
DESIGNED BY:	N. LEMAY
PLAN SHEET 9	
PLOT DATE:	6/2/2016
DRAWN BY:	S. GOODWIN
CHECKED BY:	P. SHEDD
SHEET 19	OF 26

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT  
 4 INCH WHITE LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE EDGE LINE  
 BREAKS AND RADII FOR SIDE ROADS)  
 B 2+00 TO B 30+00 LT & RT (SOLID)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
 4 INCH YELLOW LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE  $\phi$   
 BREAKS FOR SIDE ROADS)  
 B 2+00 TO B 8+40 LT (SOLID), RT (DASHED)  
 B 8+40 TO B 24+45 CL (DASHED)  
 B 24+45 TO B 28+72 LT (DASHED), RT (SOLID)  
 B 28+72 TO B 30+00 LT & RT (SOLID)

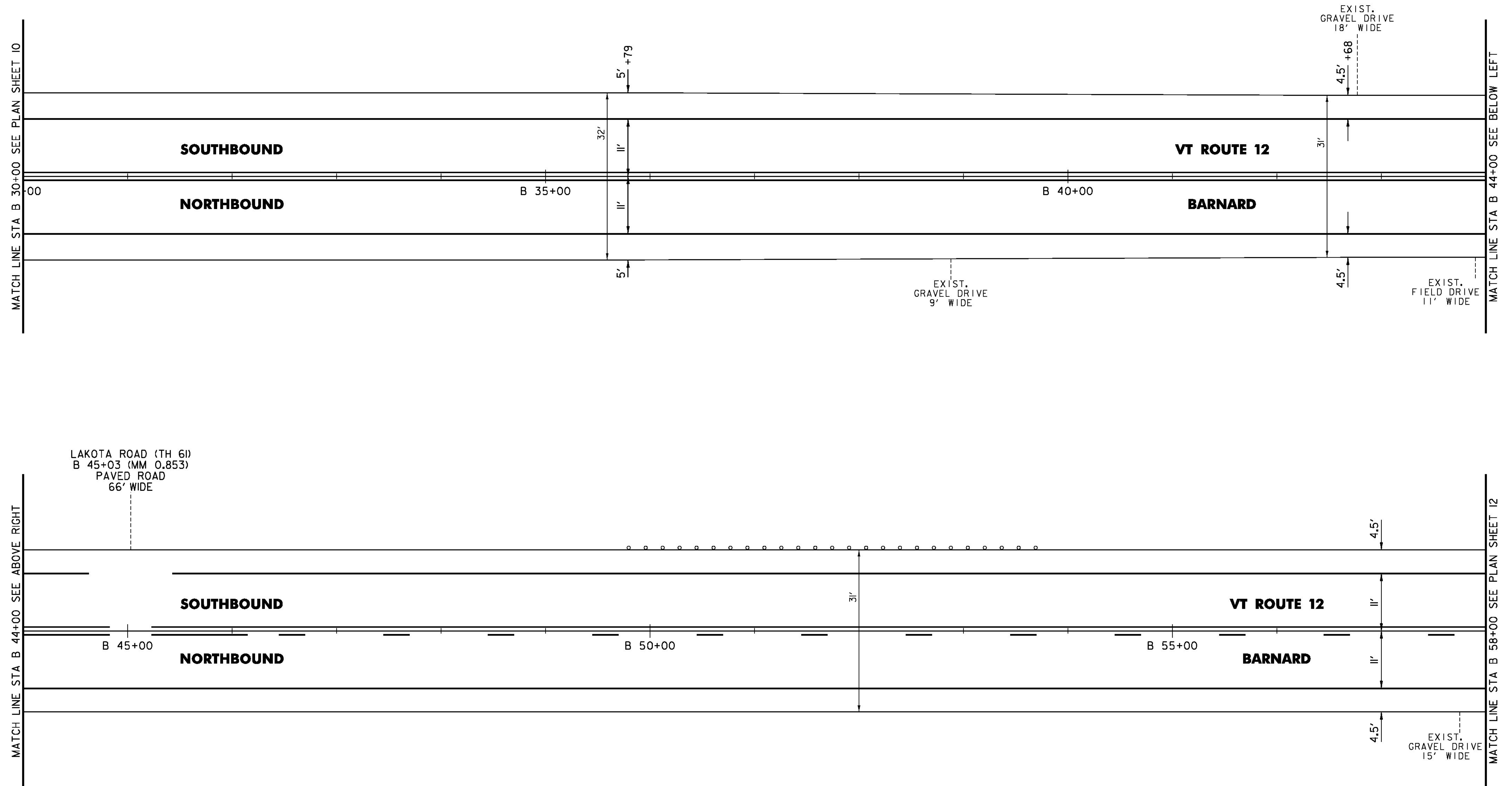


PROJECT NAME:	WOODSTOCK-BARNARD
PROJECT NUMBER:	STP FPAV(3)
FILE NAME:	z16v024bdr.dgn
PROJECT LEADER:	P. SHEDD
DESIGNED BY:	N. LEMAY
PLAN SHEET 10	
PLOT DATE:	6/2/2016
DRAWN BY:	S. GOODWIN
CHECKED BY:	P. SHEDD
SHEET 20	OF 26

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT  
 4 INCH WHITE LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE EDGE LINE  
 BREAKS AND RADII FOR SIDE ROADS)  
 B 30+00 TO B 58+00 LT & RT (SOLID)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
 4 INCH YELLOW LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE  $\phi$   
 BREAKS FOR SIDE ROADS)  
 B 30+00 TO B 46+15 LT & RT (SOLID)  
 B 46+15 TO B 58+00 LT (SOLID), RT (DASHED)

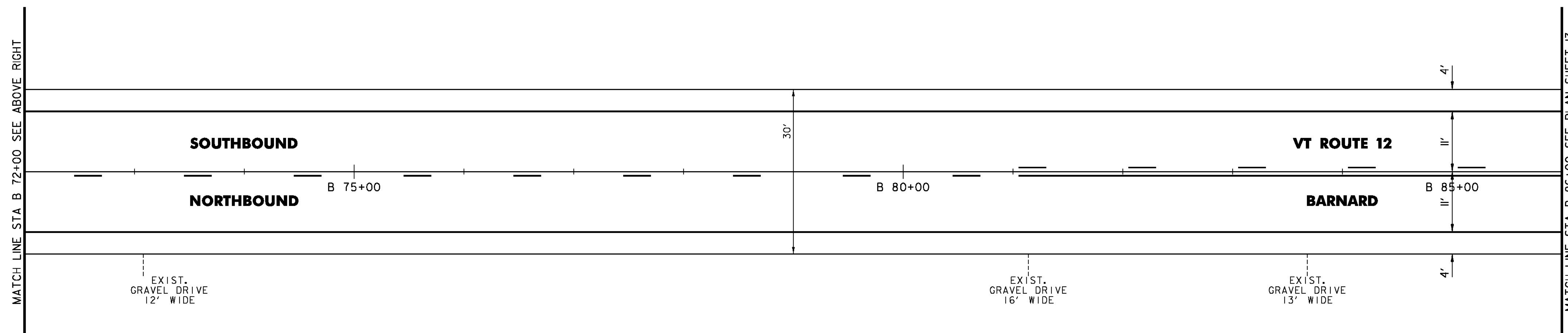
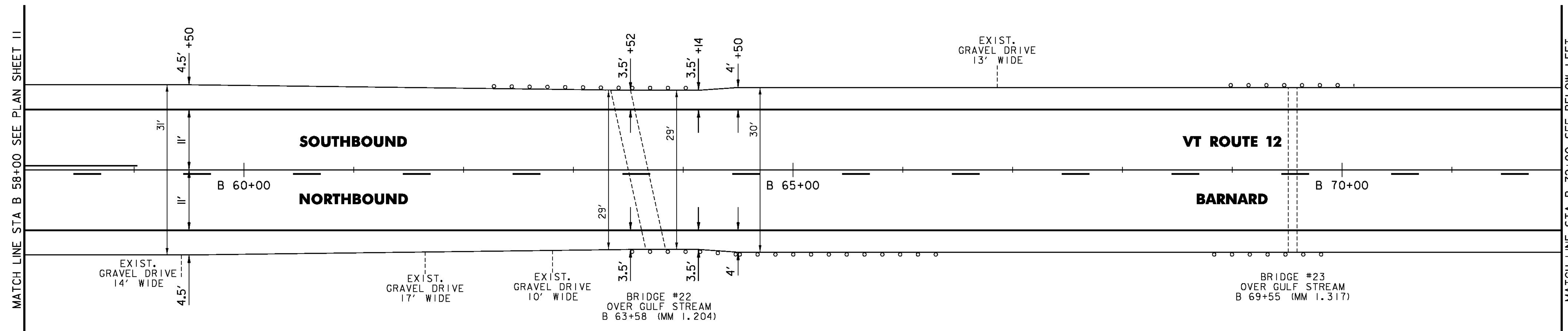


NOT TO SCALE

PROJECT NAME:	WOODSTOCK-BARNARD
PROJECT NUMBER:	STP FPAV(3)
FILE NAME:	z16v024bdr.dgn
PROJECT LEADER:	P. SHEDD
DESIGNED BY:	N. LEMAY
PLAN SHEET 11	
PLOT DATE:	6/2/2016
DRAWN BY:	S. GOODWIN
CHECKED BY:	P. SHEDD
SHEET	21 OF 26

TEMPORARY 4 INCH WHITE LINE, PAINT  
 4 INCH WHITE LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE EDGE LINE  
 BREAKS AND RADII FOR SIDE ROADS)  
 B 58+00 TO B 86+00 LT & RT (SOLID)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
 4 INCH YELLOW LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE C  
 BREAKS FOR SIDE ROADS)  
 B 58+00 TO B 59+03 LT (SOLID), RT (DASHED)  
 B 59+03 TO B 81+05 CL (DASHED)  
 B 81+05 TO B 86+00 LT (DASHED), RT (SOLID)

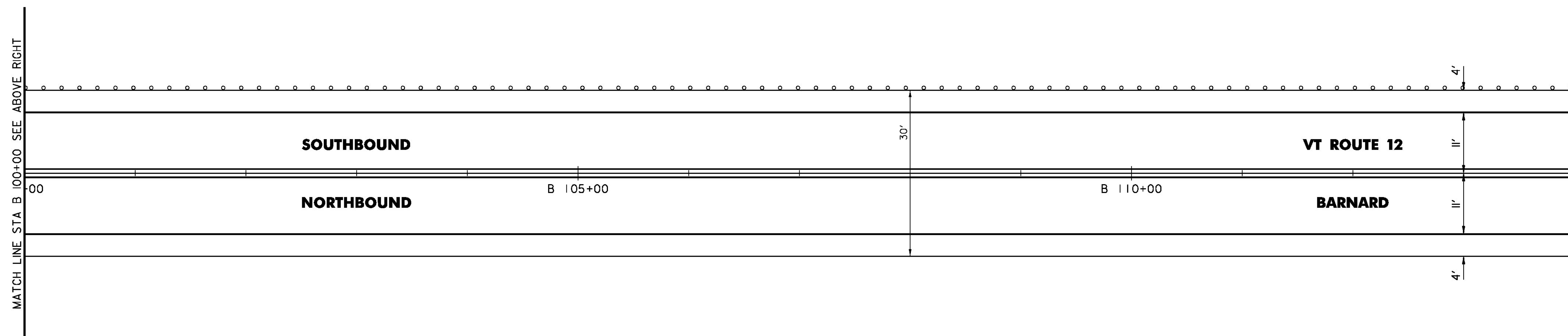
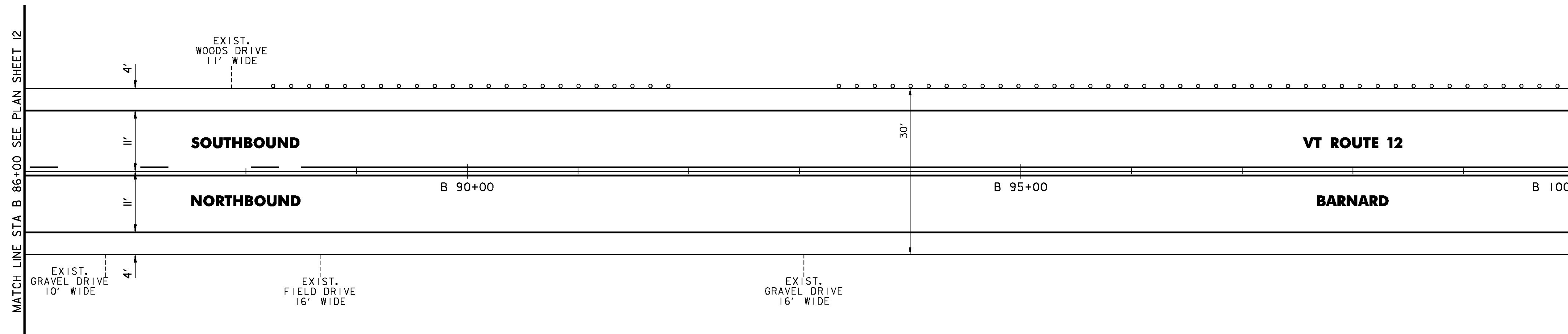


NOT TO SCALE

PROJECT NAME:	WOODSTOCK-BARNARD
PROJECT NUMBER:	STP FPAV(3)
FILE NAME:	z16v024bdr.dgn
PROJECT LEADER:	P. SHEDD
DESIGNED BY:	N. LEMAY
PLAN SHEET 12	
PLOT DATE:	6/2/2016
DRAWN BY:	S. GOODWIN
CHECKED BY:	P. SHEDD
SHEET	22 OF 26

TEMPORARY 4 INCH WHITE LINE, PAINT  
 4 INCH WHITE LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE EDGE LINE  
 BREAKS AND RADII FOR SIDE ROADS)  
 B 86+00 TO B 114+00 LT & RT (SOLID)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
 4 INCH YELLOW LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE  $\phi$   
 BREAKS FOR SIDE ROADS)  
 B 86+00 TO B 88+50 LT (DASHED), RT (SOLID)  
 B 88+50 TO B 114+00 LT & RT (SOLID)

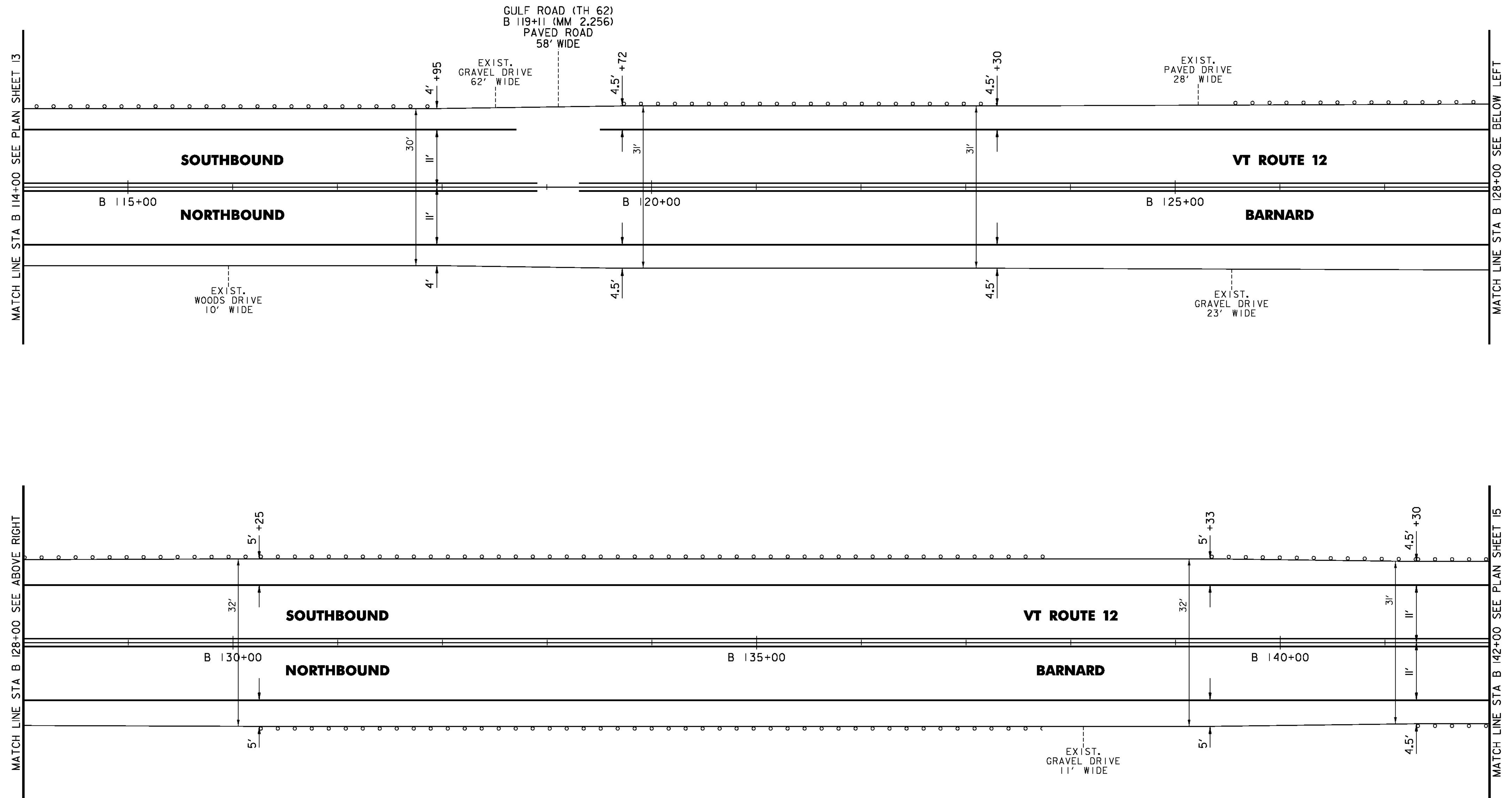


PROJECT NAME:	WOODSTOCK-BARNARD
PROJECT NUMBER:	STP FPAV(3)
FILE NAME:	z16v024bdr.dgn
PROJECT LEADER:	P. SHEDD
DESIGNED BY:	N. LEMAY
PLAN SHEET 13	
PLOT DATE:	6/2/2016
DRAWN BY:	S. GOODWIN
CHECKED BY:	P. SHEDD
SHEET	23 OF 26

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT  
 4 INCH WHITE LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE EDGE LINE  
 BREAKS AND RADII FOR SIDE ROADS)  
 B 114+00 TO B 142+00 LT & RT (SOLID)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
 4 INCH YELLOW LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE C  
 BREAKS FOR SIDE ROADS)  
 B 114+00 TO B 142+00 LT & RT (SOLID)



NOT TO SCALE

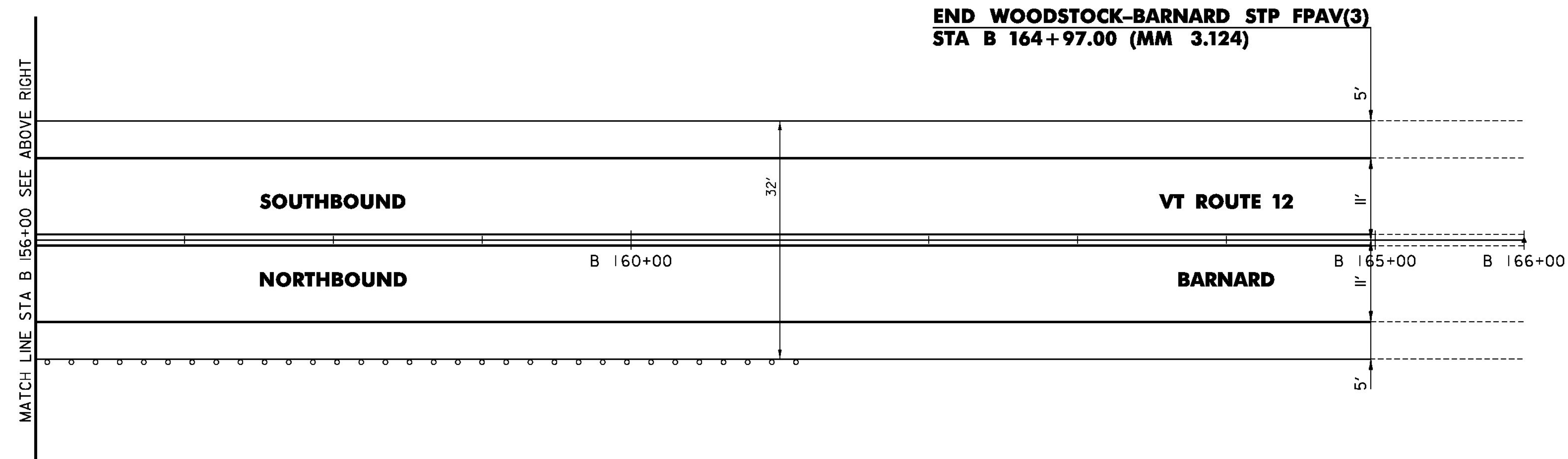
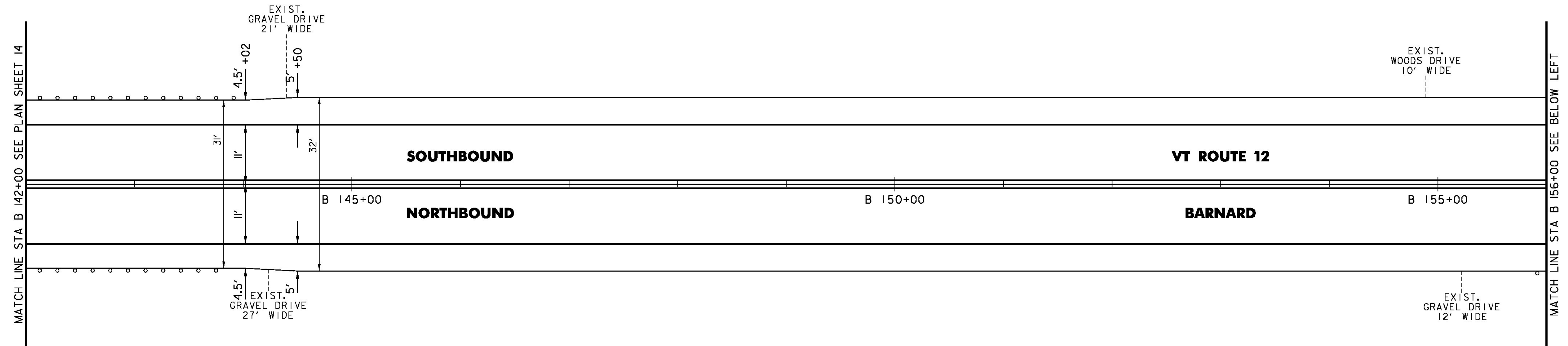
PROJECT NAME: WOODSTOCK-BARNARD  
 PROJECT NUMBER: STP FPAV(3)

FILE NAME: z16v024bdr.dgn  
 PROJECT LEADER: P. SHEDD  
 DESIGNED BY: N. LEMAY  
 PLAN SHEET 14

PLOT DATE: 6/2/2016  
 DRAWN BY: S. GOODWIN  
 CHECKED BY: P. SHEDD  
 SHEET 24 OF 26

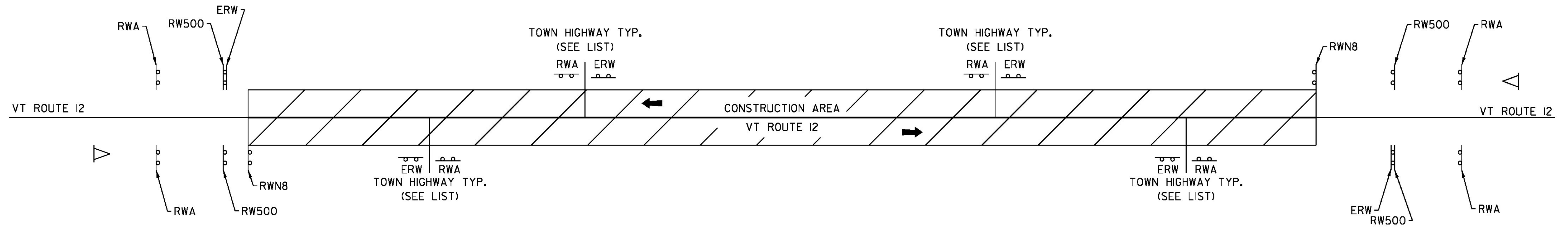
TEMPORARY 4 INCH WHITE LINE, PAINT  
 4 INCH WHITE LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE EDGE LINE  
 BREAKS AND RADII FOR SIDE ROADS)  
 B 142+00 TO 164+97 LT & RT (SOLID)

TEMPORARY 4 INCH YELLOW LINE, PAINT  
 4 INCH YELLOW LINE, WATERBORNE PAINT  
 (ALL LINES WILL INCLUDE  $\phi$   
 BREAKS FOR SIDE ROADS)  
 B 142+00 TO 164+97 LT & RT (SOLID)



PROJECT NAME:	WOODSTOCK-BARNARD
PROJECT NUMBER:	STP FPAV(3)
FILE NAME:	z16v024bdr.dgn
PROJECT LEADER:	P. SHEDD
DESIGNED BY:	N. LEMAY
PLAN SHEET 15	
PLOT DATE:	6/2/2016
DRAWN BY:	S. GOODWIN
CHECKED BY:	P. SHEDD
SHEET	25 OF 26

NOT TO SCALE



**TRAFFIC CONTROL NOTES**

1. THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE THE STANDARD FOR ALL TRAFFIC CONTROL DEVICES. EXISTING SIGNS AND MARKINGS SHALL BE VALID UNTIL SUCH TIME AS THEY ARE REPLACED OR RECONSTRUCTED. WHEN NEW TRAFFIC DEVICES ARE ERECTED OR PLACED, OR EXISTING TRAFFIC CONTROL DEVICES ARE REPLACED OR REPAIRED, THE EQUIPMENT, DESIGN, METHOD OF INSTALLATION, PLACEMENT OR REPAIR SHALL CONFORM WITH SUCH STANDARDS.
2. CONSTRUCTION ZONE SIGN LAYOUT SHALL BE IN ACCORDANCE WITH SECTION 6 OF THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND LATEST REVISIONS AND CURRENT STATE STANDARDS.
3. THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC TRAFFIC CONTROL PLAN FOR APPROVAL BY THE PROJECT MANAGER PRIOR TO THE START OF CONSTRUCTION. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10, TRAFFIC CONTROL. THE TRAFFIC CONTROL PLAN SHALL BE IN COMPLIANCE WITH VAOT STANDARDS AND THE LATEST EDITION OF THE MUTCD. WHERE CONFLICTS EXIST, THE MUTCD SHALL GOVERN.
4. THE BID PRICE FOR ITEM 641.10, TRAFFIC CONTROL SHALL INCLUDE ALL OF THE FOLLOWING, AS NEEDED: APPROACH, ON AND OFF PROJECT CONSTRUCTION SIGNING, PORTABLE FLASHING ARROW BOARDS, BARRIERS, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN VAOT STANDARDS. ALL ADJUSTING, RELOCATING AND REMOVING OF THESE DEVICES AS DIRECTED BY THE ENGINEER SHALL ALSO BE INCLUDED.
5. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) WILL BE PROVIDED FOR USE ALONG THIS PROJECT AND ARE TO BE USED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL POSITION PORTABLE CHANGEABLE MESSAGE SIGNS WARNING MOTORISTS OF THE EXPECTED ROADWAY CONDITIONS AHEAD. THE MESSAGE TO BE DISPLAYED SHALL BE SUBMITTED TO THE ENGINEER IN ADVANCE FOR APPROVAL. MESSAGES SHOULD BE UPDATED PERIODICALLY TO DESCRIBE THE WORK ACTIVITY OCCURRING SO THAT THE PCMS CONTINUES TO COMMAND THE ATTENTION OF MOTORISTS. THE COST OF PROVIDING THESE MESSAGE SIGNS SHALL BE PAID UNDER ITEM 641.15, PORTABLE CHANGEABLE MESSAGE SIGN.
6. CONSTRUCTION SIGNS SHALL BE IN NEW OR LIKE NEW CONDITION PER VAOT STANDARDS.
7. DIAMOND SHAPED SIGNS SHALL BE 48" X 48" WITH BLACK TEXT AND BORDER ON A RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND.
8. RETROREFLECTIVE SHEETING SHALL BE AS NOTED ON VAOT STANDARD T-1 AND IN THE SPECIAL PROVISIONS.
9. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE, AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS.

10. ALL PERMANENT SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE COMPLETELY COVERED, THE PAYMENT FOR WHICH WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10 TRAFFIC CONTROL.
11. ALL TEMPORARY CONSTRUCTION SIGNS SHALL BE MOUNTED ON STANDS OR POSTS THAT COMPLY WITH NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM REPORT 350 (NCHRP 350).
12. WHERE TEMPORARY SIGNS ARE PLACED BEHIND GUARDRAIL, THEY SHALL BE ADJUSTED SUCH THAT THE BOTTOM OF THE SIGNS ARE ABOVE THE TOP OF GUARDRAIL.
13. SEE VAOT STANDARDS T-1, T-10 AND T-17 FOR ADDITIONAL SIGN PLACEMENT DETAILS.
14. A MINIMUM LANE WIDTH OF 10 FEET SHALL BE MAINTAINED.
15. THE CONTRACTOR SHALL PROVIDE ACCESS THROUGH THE WORK ZONE FOR EMERGENCY VEHICLES AT ALL TIMES. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL COMMERCIAL AND MUNICIPAL PROPERTIES DURING BUSINESS HOURS. COORDINATE MAJOR WORK ON COMMERCIAL OR MUNICIPAL ACCESSES WITH THE OWNER AT LEAST ONE WEEK PRIOR TO STARTING THE WORK. ALL COMMERCIAL AND MUNICIPAL ACCESSES SHALL BE KEPT FREE OF WORK AND TRAFFIC CONTROLLED BY UNIFORMED TRAFFIC OFFICERS OR FLAGGERS AS REQUIRED BY THE ENGINEER. ACCESS TO ALL PROPERTIES MAY BE RESTRICTED FOR A SHORT DURATION (A FEW HOURS). THIS WORK WILL BE COORDINATED WITH THE OWNER.
16. WHEN COLD PLANED BITUMINOUS PAVEMENT IS OPEN TO TRAFFIC, A "MOTORCYCLES USE CAUTION" SIGN, AS PER VAOT STANDARD T-17, SHALL BE PROVIDED.
17. AS THE PAVING OPERATION MOVES, FLAGGER SIGNS SHALL BE MOVED ACCORDINGLY. AT NO TIME SHOULD THE FLAGGER SYMBOL SIGN BE MORE THAN 1000 FEET FROM THE FLAGGER STATION. FLAGGER SIGNS SHALL BE COVERED OR TURNED AWAY FROM TRAFFIC WHEN FLAGGING OPERATIONS CEASE FOR LONGER THAN 15 MINUTES.
18. CONES SHALL BE USED TO CLEARLY DEFINE THE TRAVEL SPACE AND PROVIDE SEPARATION FROM THE WORK SPACE ALONG ITS ENTIRE LENGTH.
19. THE CONTRACTOR SHALL LEAVE NO LONGITUDINAL DROP-OFFS DURING THE OVERNIGHT HOURS. THEREFORE, THE FULL ROADWAY WIDTH SHALL BE COLD PLANED OR PAVED DURING THE DAILY WORK PERIOD. WHEN NECESSARY, DROP-OFF PROTECTION IN THESE AREAS SHALL CONFORM TO VAOT STANDARD T-36.

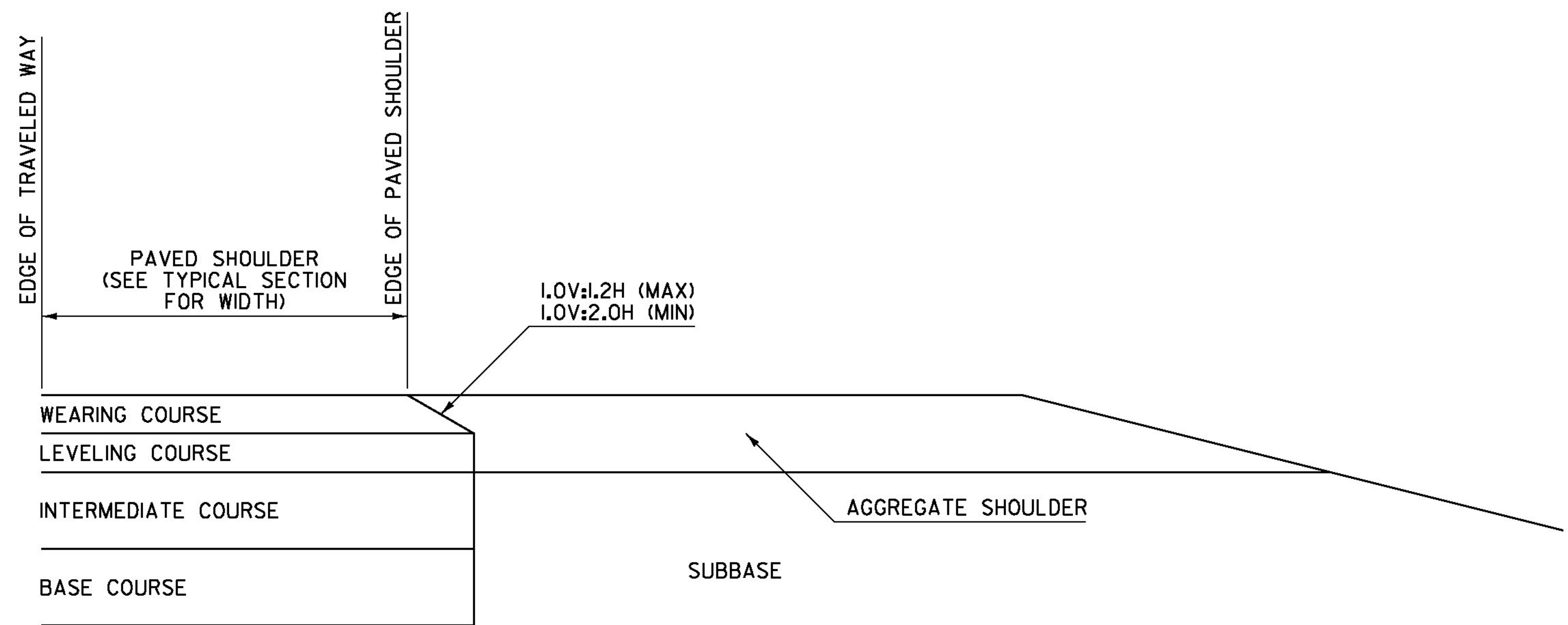
LIST OF TOWN/STATE HIGHWAYS FOR CONSTRUCTION SIGNS

TOWN/STATE HIGHWAY NAME	ROAD WORK AHEAD (RWA)	END ROAD WORK (ERW)	ROAD WORK 500' (RW500)	ROAD WORK NEXT 8 MILES (RWN8)	PCMS
VT ROUTE 12					
BEGINNING OF PROJECT	2	1	2	1	1
TH 1	1	1			
TH 33	1	1			
TH 99	1	1			
TH 22	1	1			
TH 21	1	1			
TH 3	1	1			
TH 18	1	1			
TH 48	1	1			
TH 56	1	1			
TH 61	1	1			
TH 62	1	1			
END OF PROJECT	2	1	2	1	1
TOTAL	15	13	4	2	2

LEGEND

- RWA = ROAD WORK AHEAD
- RW500 = ROAD WORK IN 500 FEET
- RWN = ROAD WORK NEXT (XX MILES)
- ERW = END ROAD WORK
- △ = PORTABLE CHANGEABLE MESSAGE SIGN
- ▨ = WORK AREA
- ← = DIRECTION OF TRAFFIC FLOW

PROJECT NAME:	WOODSTOCK-BARNARD
PROJECT NUMBER:	STP FPAV(3)
FILE NAME: z16v024frrm.dgn	PLOT DATE: 6/2/2016
PROJECT LEADER: P. SHEDD	DRAWN BY: S. GOODWIN
DESIGNED BY: N. LEMAY	CHECKED BY: P. SHEDD
CONSTRUCTION APPROACH SIGNING	SHEET 26 OF 26

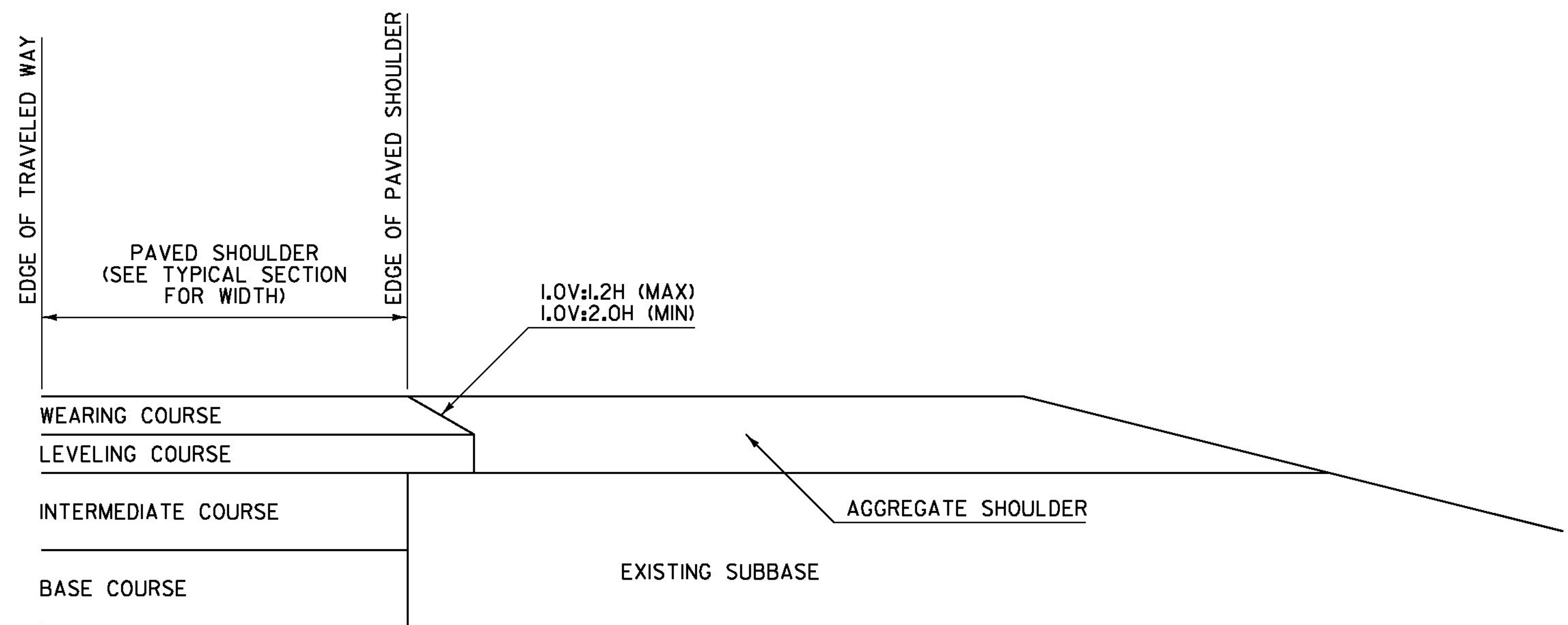


**NOTES:**

1. THIS DETAIL IS INTENDED FOR WHEN PAVING EXTENDS BELOW THE WEARING COURSE.
2. PRIOR TO PLACEMENT OF THE LEVELING AND/OR WEARING COURSE, THE SUBBASE LOCATED BENEATH THE AGGREGATE SHOULDER SHALL BE PREPARED FLUSH WITH THE BOTTOM OF THE LEVELING COURSE.
3. BASE COURSE LIMITS MAY VARY, SEE TYPICAL SECTIONS FOR WIDTH.

**SAFETY EDGE DETAIL  
FOR PAVING BELOW WEARING COURSE**

SAFETY EDGE WIDTH BASED ON WEARING COURSE THICKNESS AND A 1V:1.6H SLOPE	
WEARING COURSE THICKNESS (INCHES)	NOMINAL SAFETY EDGE WIDTH (INCHES)
1.25	2.000
1.50	2.375
1.75	2.750
2.00	3.125
2.25	3.500
2.50	4.000



**NOTES:**

1. THIS DETAIL IS INTENDED FOR WHEN ONLY THE LEVELING AND/OR WEARING COURSE IS TO BE PLACED.
2. PAVEMENT COURSES MAY VARY, SEE TYPICAL SECTIONS FOR ACTUAL PAVEMENT COURSES REQUIRED.

**SAFETY EDGE DETAIL  
FOR PAVING WEARING COURSE ONLY**

**GENERAL NOTES:**

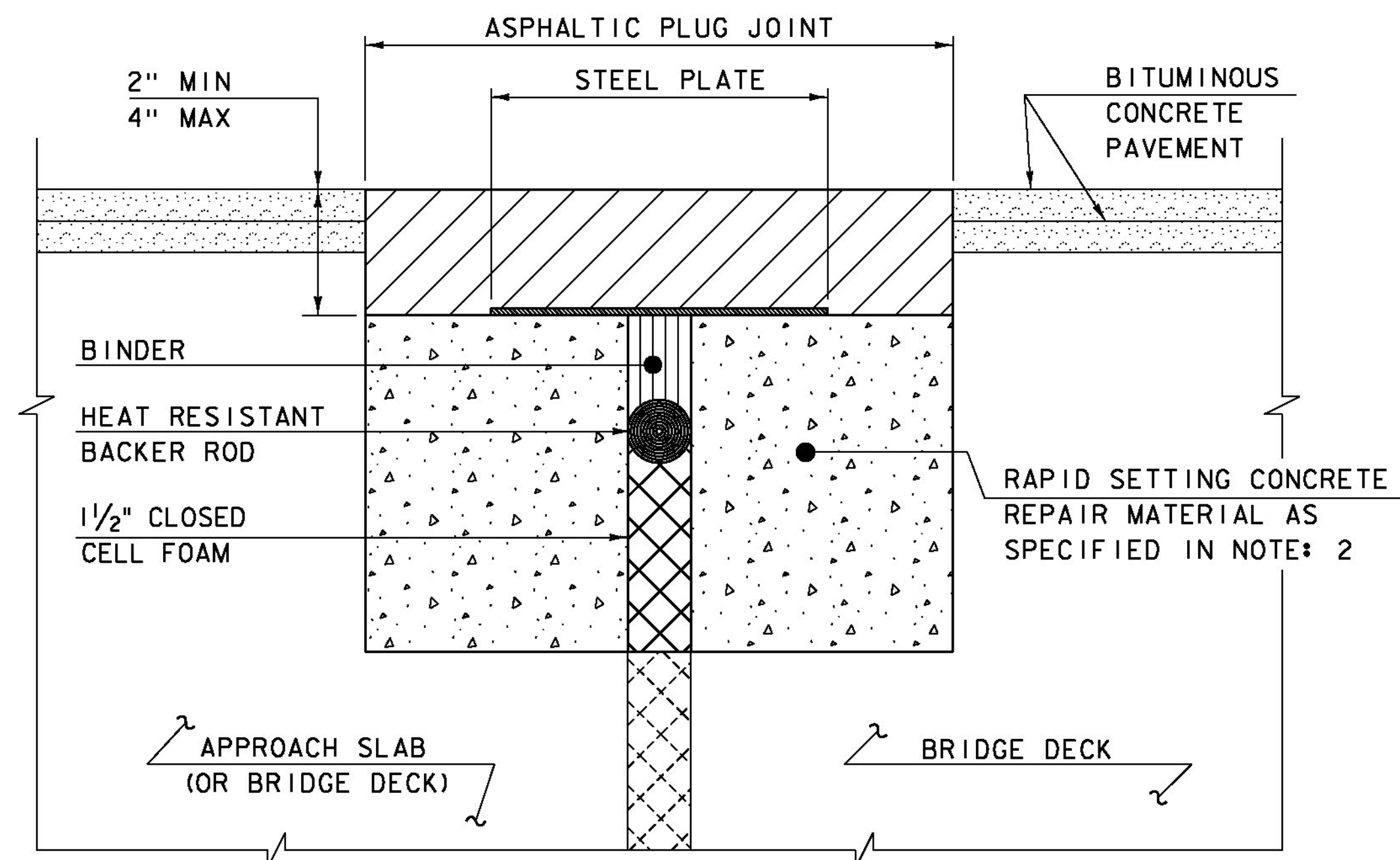
1. PLACEMENT OF THE WEARING COURSE SHALL INCLUDE THE SAFETY EDGE, UNLESS THE FOLLOWING APPLIES:
  - A. THE ADJACENT SLOPE IS STEEPER THAN THE SAFETY EDGE.
  - B. THE EDGE OF PAVEMENT BEING PLACED ABUTS BOUND MATERIAL.
  - C. VEHICLES ARE RESTRICTED FROM LEAVING THE PAVED SURFACE (EXAMPLE: GUARDRAIL).
2. THE SAFETY EDGE SHALL BE FORMED IN SUCH A WAY THAT THE BITUMINOUS CONCRETE PAVEMENT IS EXTRUDED OR COMPRESSED TO FORM THE SLOPE. DEVICES THAT SIMPLY STRIKE-OFF THE MIX WITHOUT PROVIDING ANY COMPACTIVE EFFORT WILL NOT BE ALLOWED.
3. THE SAFETY EDGE SHALL NOT BE CONSIDERED PART OF THE PAVED SHOULDER.
4. THIS WORK SHALL BE INCIDENTAL TO THE RESPECTIVE BITUMINOUS CONCRETE PAVEMENT ITEM.

REV.	DATE	DESCRIPTION
0	MAR. 29, 2016	ORIGINAL APPROVAL
OTHER DETAILS REQUIRED: NONE		
DETAILS APPROVED FOR USE BY HIGHWAY SAFETY & DESIGN		

SAFETY EDGE DETAILS



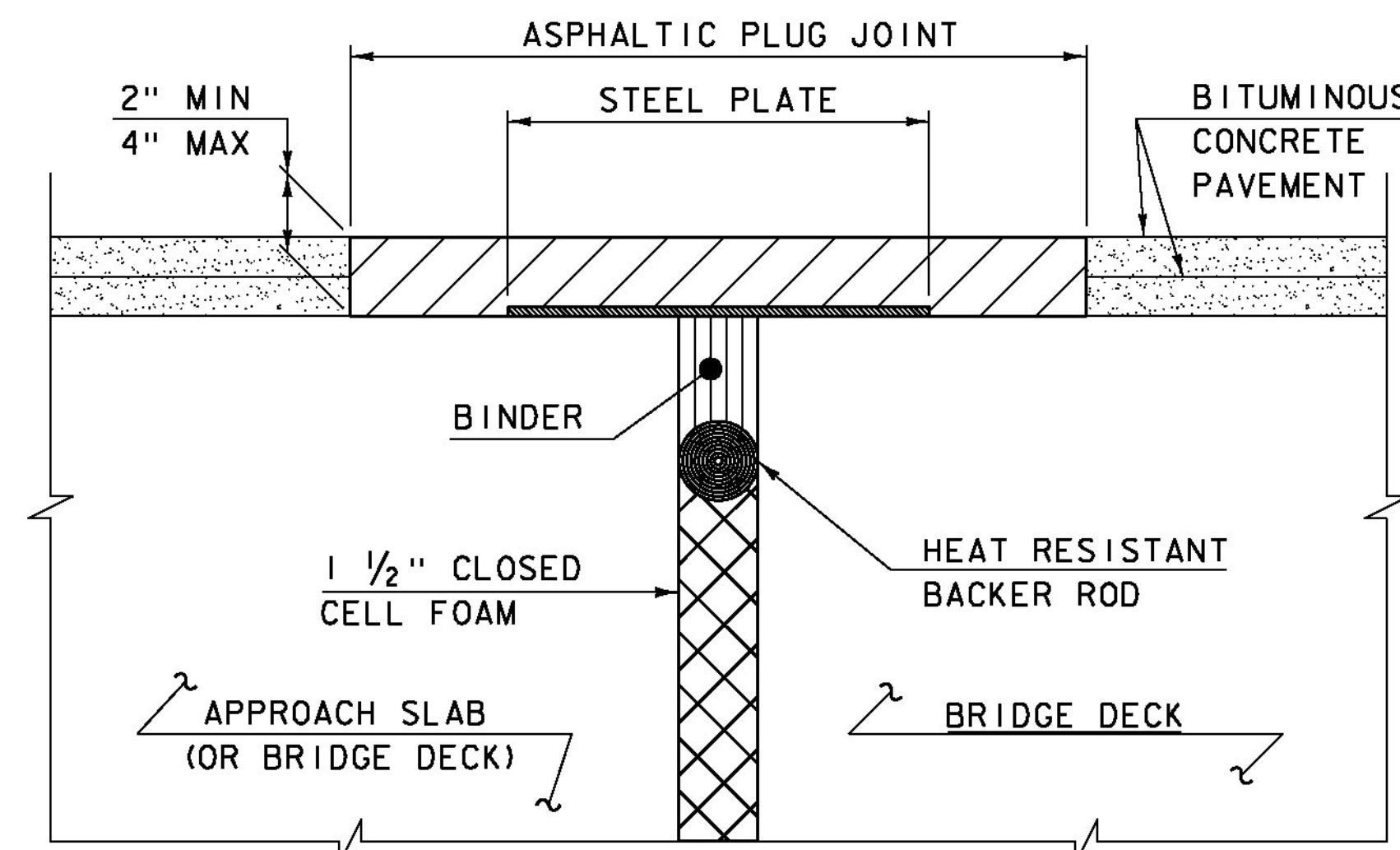
HIGHWAY SAFETY  
& DESIGN DETAIL  
HSD-400.01



**ASPHALTIC PLUG JOINT DETAIL - REHAB**

**NOTES:**

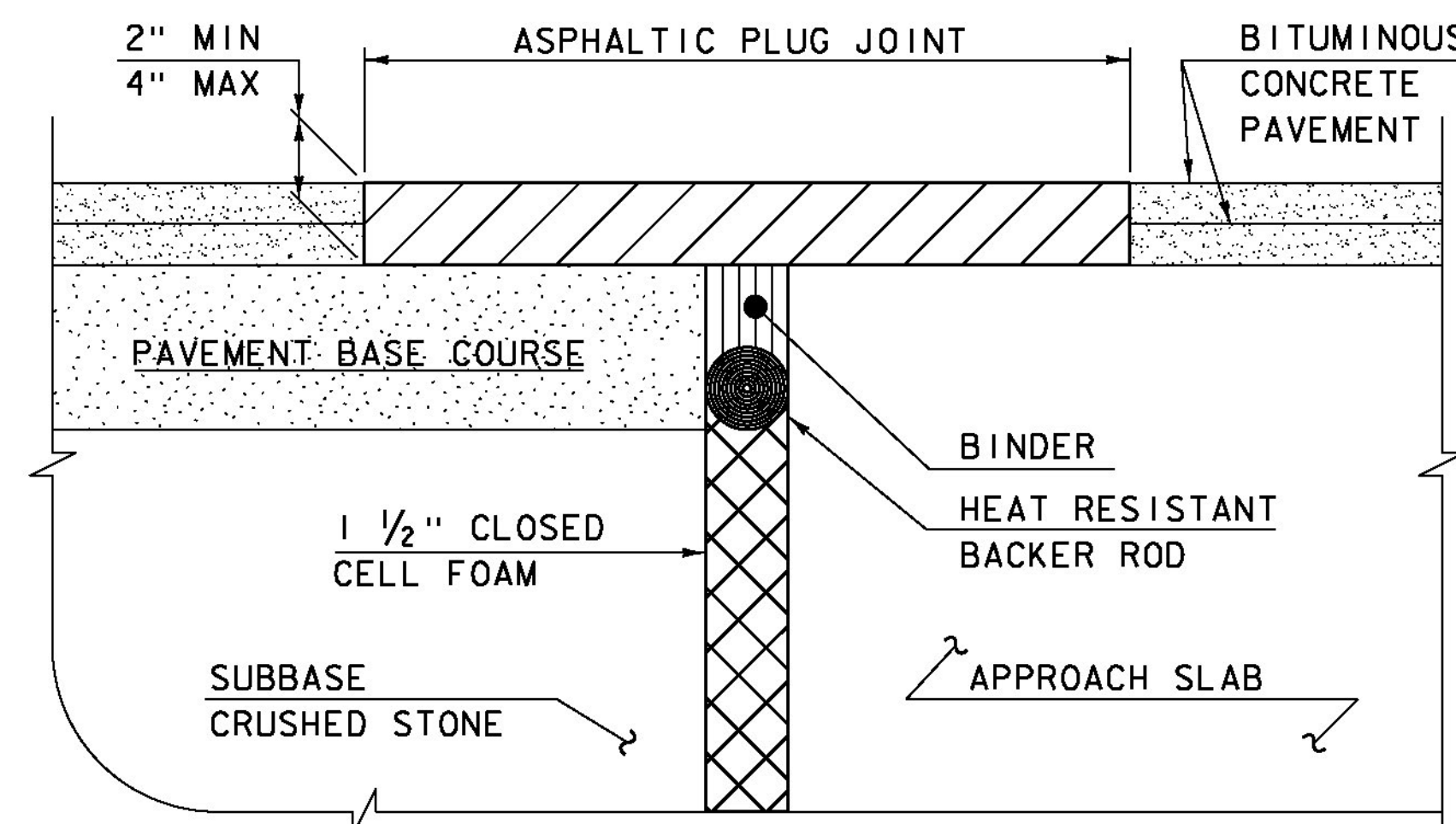
1. THE CONTRACTOR SHALL REMOVE ALL ASPHALTIC PLUG JOINT MATERIAL AND DETERIORATED CONCRETE AS DIRECTED BY THE ENGINEER. REMOVAL OF THE FIRST 4 INCHES OF MATERIAL SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 516.10 BRIDGE EXPANSION JOINT, ASPHALTIC PLUG. ANY REMOVAL OF MATERIAL GREATER THAN 4 INCHES SHALL BE INCLUDED IN THE BID PRICE OF ITEM 580.20 RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE.
2. THE CONTRACTOR SHALL REPLACE REMOVED MATERIAL THAT IS LESS THAN 4" FROM FINISHED GRADE WITH ASPHALTIC PLUG JOINT MATERIAL MEETING THE REQUIREMENTS OF SUBSECTION 707.15. ALL REMOVED MATERIAL THAT IS GREATER THAN 4 INCHES FROM FINISHED GRADE SHALL BE REPLACED WITH RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE MEETING THE REQUIREMENTS OF SUBSECTION 780.04.
3. REINFORCING STEEL NOT SHOWN FOR CLARITY.
4. PLACE 1/4" THICK BY 8" WIDE SECTIONS OF STEEL PLATE OVER THE CENTER OF THE MOVEMENT GAP. SECURE THE PLATES FROM MOVING BY INSERTING LOCATING PINS THROUGH THE PRE-STAMPED HOLES INTO BACKER ROD AND COVER WITH HOT BINDER. THE STEEL PLATES MAY BE OMITTED WHERE THE ENGINEER DETERMINES THAT THE APPROACH SLAB OR BRIDGE DECK WILL PROVIDE INADEQUATE SUPPORT AND WHERE VERTICAL MOVEMENT OF THE PLATES MIGHT OCCUR.



**ASPHALTIC PLUG JOINT DETAIL "A" - NEW**

**NOTE:**

PLACE 1/4" THICK BY 8" WIDE SECTIONS OF STEEL PLATE OVER THE CENTER OF THE MOVEMENT GAP. SECURE THE PLATES FROM MOVING BY INSERTING LOCATING PINS THROUGH THE PRE-STAMPED HOLES INTO BACKER ROD AND COVER WITH HOT BINDER.



**ASPHALTIC PLUG JOINT DETAIL "B" - NEW**

**ASPHALTIC PLUG JOINT NOTES**

**INSTALLATION:**

1. LOCATE THE JOINT CENTRALLY OVER THE DECK OVERLAY EXPANSION GAP OR FIXED JOINT, MARKED OUT TO THE MANUFACTURER'S RECOMMENDED WIDTH.
2. REMOVE THE BITUMINOUS CONCRETE PAVEMENT FULL DEPTH AS SHOWN ON THE PLANS. THE PAVEMENT SHALL BE DRY AND SAW CUT TO THE LIMITS REQUIRED TO PLACE THE JOINT. A PNEUMATIC HAMMER AND CHISEL MAY BE USED ADJACENT TO THE CURB ONLY WHEN SAW CUTTING IS NOT POSSIBLE.
3. BLAST CLEAN THE JOINT AREA OF DEBRIS, ASPHALT AND SHEET MEMBRANE. THOROUGHLY DRY THE JOINT AREA WITH COMPRESSED AIR PRIOR TO APPLYING BINDER MATERIAL.
4. PLACE PROPERLY SIZED HEAT RESISTANT BACKER ROD IN THE MOVEMENT GAP ALLOWING FOR 1" +/- OF BINDER ABOVE THE ROD.
5. HEAT AND PLACE THE BINDER MATERIAL AS RECOMMENDED BY THE MANUFACTURER.
6. IMMEDIATELY AFTER TOP COATING, CAST AN ANTI-SKID MATERIAL OVER THE JOINT TO REDUCE THE RISK OF TRACKING.

**WEATHER LIMITATIONS**

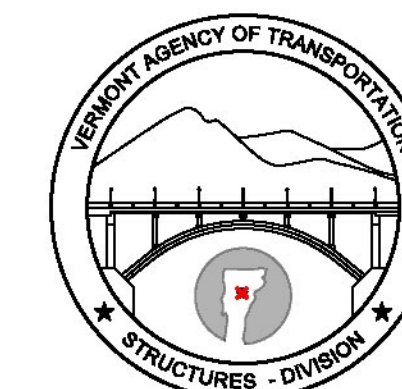
APPLY BINDER MATERIAL ONLY WHEN THE FOLLOWING CONDITIONS PREVAIL OR AS RECOMMENDED BY THE MANUFACTURER:

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

DETAILS ON THIS SHEET ARE NOT TO SCALE.

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

**BRIDGE JOINT  
ASPHALTIC PLUG**



**STRUCTURES  
DETAIL  
SD-516.10**