

# STATE OF VERMONT AGENCY OF TRANSPORTATION

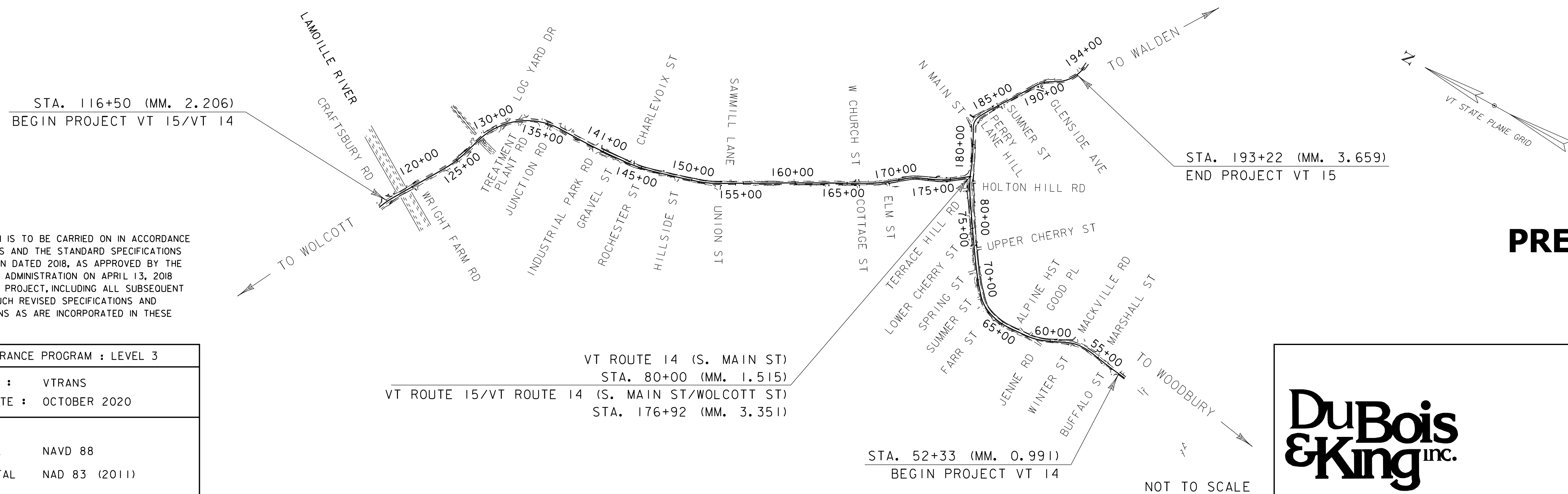
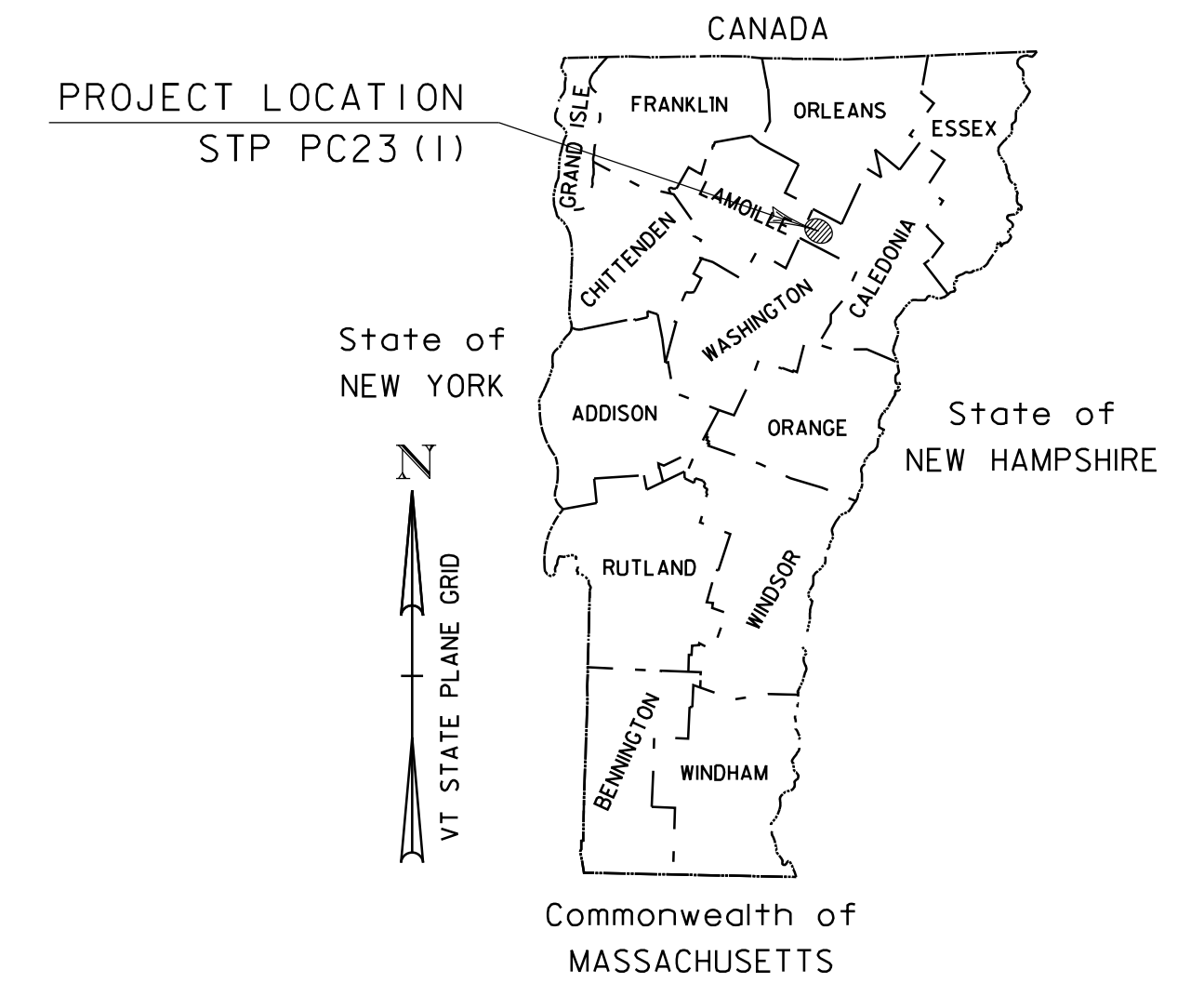


## PROPOSED IMPROVEMENT CLASS I TOWN HIGHWAY TOWN OF HARDWICK COUNTY OF CALEDONIA VT ROUTE 14 & VT ROUTE 15 (MINOR ARTERIAL)

IN THE TOWN OF HARDWICK BEGINNING ON VT 14 AT MILE MARKER 0.991 = STA. 52+33 AND CONTINUING NORTH ALONG VT 14 TO THE INTERSECTION WITH VT ROUTE 15 AT MILE MARKER 1.515 = STA. 80+00 (ON VT ROUTE 15 AT MILE MARKER 3.351 = STA. 176+92). ALSO BEGINNING ON VT 15/VT 14 AT MILE MARKER 2.206 = STA. 116+50 AND CONTINUING EAST TO MILE MARKER 3.659 = STA. 193+22 ON VT 15.

STATION TO STATION DATA:		LENGTH	
		(FT)	(MILES)
VT 14	STA. 52+33 TO STA. 80+00 (MM 0.991 TO MM 1.515)	2767	0.524
VT 14/VT 15	STA. 116+50 TO STA. 176+92 (MM 2.206 TO MM 3.351)	6042	1.144
VT 15	STA. 176+92 TO STA. 193+22 (MM 3.351 TO MM 3.659)	1630	0.309
TOTAL ROADWAY LENGTH =		10439	1.977
TOTAL PROJECT LENGTH =		10439	1.977

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COARSE-MILLING, RESURFACING WITH LEVELING, AND WEARING COURSE, PAVEMENT MARKINGS, SIGNAGE, AND OTHER RELATED HIGHWAY ITEMS.



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018 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 :	VTRANS
SURVEYED DATE :	OCTOBER 2020
DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (2011)

VT ROUTE 14 (S. MAIN ST)  
STA. 80+00 (MM. 1.515)  
VT ROUTE 15/VT ROUTE 14  
(S. MAIN ST/WOLCOTT ST)  
STA. 176+92 (MM. 3.351)

STA. 52+33 (MM. 0.991)  
BEGIN PROJECT VT 14

NOT TO SCALE

### PRELIMINARY PLANS 7/28/2021

HIGHWAY DIVISION, CHIEF ENGINEER	
APPROVED _____	DATE _____
PROJECT MANAGER : MATT BOGACZYK, P.E.	
PROJECT NAME :	HARDWICK
PROJECT NUMBER :	STP PC23 (1)
SHEET 1 OF 78 SHEETS	

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HIGHWAY SAFETY AND DESIGN DETAIL SHEET

HSD-400.01	SAFETY EDGE DETAILS	01/05/18
HSD-621.01	POST AND BLOCKOUT DETAILS FOR STEEL BEAM GUARDRAIL, GALVANIZED	06/09/15
HSD-621.06	MISCELLANEOUS GUARDRAIL DETAILS	02/27/17

TRAFFIC DATA

VT ROUTE 14	AADT		DHV		%T		%D		ADTT		CUM. ESALS	
	2022	2042	2022	2042	2022	2042	2022	2042	2022	2042	(2022-2042)	(2022-2062)
BEGIN PROJECT TO WINTER ST/MACKVILLE RD	3000	3300	370	400	8.2	12.5	56	56	280	480	1,957,000	4,483,000
WINTER ST/MACKVILLE RD TO VT ROUTE 15	4500	4900	520	560	7.0	11.0	52	52	330	560	2,724,000	6,231,000
VT ROUTE 15												
BEGIN PROJCT TO END PROJECT	6700	7400	790	870	7.7	12.2	52	52	530	920	3,623,000	8,356,000

POSTED SPEED	
VT 14	MM 0.991 - MM 1.515 = 25 MPH
VT 15	MM 2.206 - MM 2.680 = 35 MPH MM 2.680 - MM 3.287 = 30 MPH MM 3.287 - MM 3.660 = 25 MPH

VTRANS STANDARDS

C-2A	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK ADJACENT TO CURB	10/14/05
C-2B	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK AND GREEN STRIP	10/14/05
C-3A	SIDEWALK RAMPS	04/07/20
C-3B	SIDEWALK RAMPS AND MEDIAN ISLANDS	04/07/20
C-10	CURBING	02/11/08
D-15	PRECAST REINFORCED CONCRETE CATCH BASIN W/ CAST IRON GRATE PRECAST REINFORCED MANHOLE W/ CAST IRON COVER CAST IRON GRATE WITH FRAME, TYPE D CAST IRON GRATE WITH FRAME, TYPE E	06/01/94
E-10	ROLLED EROSION CONTROL PRODUCT, TYPE I	04/07/20
E-15	SILT FENCE	04/07/20
E-121	STANDARD SIGN PLACEMENT CONVENTIONAL ROAD	08/08/95
E-136B	STATE ROUTE MARKER SIGN DETAILS	08/08/95
E-145A	REGULATORY SIGN DETAILS - LANE USE CONTROL SIGNS	12/23/94
E-145B	REGULATORY SIGN DETAILS - LANE USE CONTROL SIGNS	12/23/94
E-146	REGULATORY SIGN DETAILS	09/20/95
E-191	PAVEMENT MARKING DETAILS	02/01/99
E-193	PAVEMENT MARKING DETAILS	08/18/95
G-1	STEEL BEAM GUARDRAIL WITH STEEL POSTS STEEL BEAM GUARDRAIL WITH WOOD POSTS	03/10/17
G-1D	STEEL BEAM GUARDRAIL END TERMINALS ANCHOR FOR STEEL BEAM GUARDRAIL STEEL BEAM MEDIAN BARRIER	03/10/17
G-19	GENERIC GRADING PLANS FOR GUARDRAIL END TERMINALS	10/02/18
J-3	MAIL BOX SUPPORT DETAILS (SINGLE & MULTIPLE SUPPORT)	08/07/95
S-400	BRIDGE JOINT ASPHALTIC PLUG	04/07/20
T-1	TEMPORARY TRAFFIC CONTROL GENERAL NOTES	04/25/16
T-2	TRAFFIC SIGN GENERAL NOTES	04/07/20
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	08/06/12
T-17	TRAFFIC CONTROL MISCELLANEOUS DETAILS	08/06/12
T-21	TEMPORARY TRAFFIC CONTROL FOR THREE LANE ROADWAY CLOSURE	08/06/12
T-24	TRAFFIC CONTROL FOR MAINTENANCE PAVEMENT MARKING OPERATIONS	08/06/12
T-28	CONSTRUCTION SIGN DETAILS	08/06/12
T-29	CONSTRUCTION SIGN DETAILS	08/06/12
T-30	CONSTRUCTION SIGN DETAILS	08/06/12
T-31	CONSTRUCTION SIGN DETAILS	08/06/12
T-35	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS	08/06/12
T-36	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS FOR PAVING	08/06/12
T-42	BRIDGE NUMBER PLAQUE	04/09/14
T-44	MILEMARKER DETAILS STATE AND TOWN HIGHWAY	04/09/14
T-45	SQUARE TUBE SIGN POST AND ANCHOR	01/02/13
T-56	STANDARD SIGN PLACEMENT	10/26/15
T-70	VERMONT REGULATORY SIGN DETAILS	04/25/16
T-71	VERMONT REGULATORY SIGN DETAILS	04/25/16
T-82	VERMONT WARNING SIGN DETAILS	03/10/17
T-92	ROUTE MARKER FRAME DETAILS	10/26/15

SUPERPAVE BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESALS	TBD
DESIGN NUMBER OF GYRATIONS	TBD
PERFORMANCE GRADE ASPHALT BINDER:	TBD



PROJECT NAME:	HARDWICK	PLOT DATE:	7/28/2021
PROJECT NUMBER:	STP PC23(I)	DRAWN BY:	O. DALMER
FILE NAME:	z19v4251dx.dgn	DESIGNED BY:	S. SOLLA
PROJECT LEADER:	C. LATHROP	CHECKED BY:	C. LATHROP
INDEX OF SHEETS		SHEET	2 OF 78

**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 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**

**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 —	PROJECT DEMARCATION FENCE
— BF —	BARRIER FENCE
—	TREE PROTECTION ZONE (TPZ)
—	STRIPING LINE REMOVAL
—	SHEET PILES

**CONVENTIONAL BOUNDARY SYMBOLGY**

**BOUNDARY LINES**

— TOWN LINE —	TOWN BOUNDARY LINE
— COUNTY LINE —	COUNTY BOUNDARY LINE
— STATE LINE —	STATE BOUNDARY LINE
—	PROPOSED STATE R.O.W. (LIMITED ACCESS)
—	PROPOSED STATE R.O.W.
—	STATE ROW (LIMITED ACCESS)
—	STATE ROW
—	TOWN ROW
—	PERMANENT EASEMENT LINE (P)
—	TEMPORARY EASEMENT LINE (T)
—	SURVEY LINE
— P —	PROPERTY LINE (P/L)
— L —	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

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLGY

**ENVIRONMENTAL RESOURCES**

—	WETLAND BOUNDARY
—	RIPARIAN BUFFER ZONE
—	WETLAND BUFFER ZONE
—	SOIL TYPE BOUNDARY
— T&E —	THREATENED & ENDANGERED SPECIES
— 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**

— ARCH —	ARCHEOLOGICAL BOUNDARY
— HISTORIC DIST —	HISTORIC DISTRICT BOUNDARY
— HISTORIC —	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: HARDWICK  
PROJECT NUMBER: STP PC23(I)

FILE NAME: z19v4251dx.dgn PLOT DATE: 7/28/2021  
PROJECT LEADER: VTRANS DRAWN BY: VTRANS  
DESIGNED BY: VTRANS CHECKED BY: VTRANS  
CONVENTIONAL SYMBOLGY LEGEND SHEET SHEET 3 OF 78



NOTES:

1. ALL COARSE-MILLED SURFACES SHALL HAVE SURFACE PREPARATION BEFORE PAVING, CONSISTING OF POTHOLE PATCHING AND PATCHING OF ALL CRACKS THAT ARE 1" OR GREATER IN WIDTH. THIS WILL BE PAID UNDER ITEM 406.45 "BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION."
2. DAMAGE TO ANY DI'S, CROSS CULVERTS OR OTHER DRAINAGE FEATURES SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER AT NO COST TO THE STATE.
3. ITEM 613.10 "STONE FILL, TYPE 1," ITEM 651.40 "GRUBBING MATERIAL (6") ," ITEM 653.20 "ROLLED EROSION CONTROL PRODUCT, TYPE 1" AND ITEM 608.25 "ALL PURPOSE EXCAVATOR RENTAL, TYPE 1" HAS BEEN INCLUDED TO REPAIR EXISTING STONE LINED DRAINAGE OUTLETS OR WASHOUTS LOCATED ALONG THE ROADWAY SIDE SLOPES AS DIRECTED BY THE ENGINEER.
4. A QUANTITY HAS BEEN ESTIMATED FOR ITEM 617.10 "REMOVE AND RESET MAILBOX, SINGLE SUPPORT" AND ITEM 617.12 "REMOVE AND RESET MAILBOX, MULTIPLE SUPPORT," TO BE USED AS DIRECTED BY THE ENGINEER.
5. AN ESTIMATED QUANTITY FOR ITEM 619.17 "YIELDING MARKER POSTS" HAS BEEN INCLUDED TO DELINEATE PIPE INLETS, PIPE OUTLETS AND DROP INLETS LOCATED OUTSIDE THE PAVEMENT SURFACES OR AS DIRECTED BY THE ENGINEER.
6. ESTIMATED QUANTITIES OF ITEMS 608.25, "ALL PURPOSE EXCAVATOR RENTAL, TYPE 1," 608.37, "TRUCK RENTAL," AND 608.40, "LOADER RENTAL, TYPE 1" HAVE BEEN INCLUDED FOR THE REMOVAL OF BUILT UP EXCESS SHOULDER MATERIAL.
7. EXISTING UNDERGROUND AND AERIAL FACILITIES ARE LOCATED THROUGHOUT THE ENTIRE PROJECT AREA. OWNERSHIP OF THESE FACILITIES INCLUDES OPERATIONAL UTILITIES COMPANIES, MUNICIPALITIES AND INDIVIDUAL PROPERTY OWNERS. THE CONTRACTOR IS CAUTIONED TO PROTECT THESE FACILITIES FROM DAMAGE.
8. AREAS GIVEN FOR DOUBLE SIDED SIGNS ON THE TRAFFIC SIGN SUMMARY SHEETS HAVE BEEN MULTIPLIED BY 1.5 AS REQUIRED PER SUBSECTION 675.10. THE ACTUAL PHYSICAL DIMENSIONS ARE GIVEN ON THE TRAFFIC SIGN SUMMARY SHEETS. THE QUANTITY SHEET TOTALS FOR ITEM 675.20 ALSO INCORPORATE THE PAY FACTOR OF 1.5 FOR DOUBLE SIDED SIGNS.
9. DRAINAGE GRATES SHALL BE INSTALLED " BELOW FINISHED GRADE AND SLOPED TO MATCH THE ROADWAY CROSS SLOPE.
10. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = +/-1/4 INCH (TOTAL THICKNESS, EXCLUDING LEVELING).
11. ALL SIGNS SHALL HAVE "HARDWICK" ON THE STICKERS AND NOT "VTRANS"

PROJECT NAME: HARDWICK  
PROJECT NUMBER: STP PC23(I)

FILE NAME: z19v425typ.dgn	PLOT DATE: 7/28/2021
PROJECT LEADER: C. LATHROP	DRAWN BY: T. MATTHEWS
DESIGNED BY: T. MATTHEWS	CHECKED BY: C. LATHROP
PROJECT GENERAL NOTES SHEET	SHEET 4 OF 78

**PROJECT PAVING LIMITS**

	BEGIN STATION	END STATION	LANE TYPICAL	WEARING DEPTH	LEVELING DEPTH	NOTES
VT 14 HARDWICK						
	52+05	55+75	3' - 11' - 11' - 3'	1 1/2"	1/2"	COARSE-MILLING AND OVERLAY
	55+75	58+50	3' - 11' - 11' - 5'	1 1/2"	1/2"	
	58+50	62+25	(2' - 6') - 11' - 11' - (2' - 5')	1 1/2"	1/2"	
	62+25	66+00	6' - 11' - 11' - 4'	1 1/2"	1/2"	
	66+00	67+25	8' - 11' - 11' - 4'	1 1/2"	1/2"	
	67+25	68+75	9' - 11' - 11' - 4'	1 1/2"	1/2"	
	68+75	71+00	9' - 11' - 11' - 5'	1 1/2"	1/2"	
	71+00	72+66	10' - 11' - 11' - 6'	1 1/2"	1/2"	
	72+66	73+35	10' - 11' - 11' - 8'	1 1/2"	1/2"	
	73+35	78+75	(6' - 8') - (11' - 18') - (11' - 23') - 8'	1 1/2"	1/2"	
	78+75	80+00	(14' - 15') - 11' - (22' - 23') - 8'	1 1/2"	1/2"	
VT 15/14 HARDWICK						
	116+50	118+51	(7' - 11') - (11' - 11') - (8' - 10')	1 1/2"	1/2"	COARSE-MILLING AND OVERLAY
	118+51	119+45	8' - 11' - 11' - 8'	1 1/4"	-	BRIDGE 66
	119+45	119+85	(8' - 9') - 11' - 11' - (8' - 10')	1 1/2"	1/2"	COARSE-MILLING AND OVERLAY
	119+85	124+00	9' - 11' - 11' - 10'	1 1/2"	1/2"	
	124+00	126+50	(5' - 9') - 11' - 11' - (5' - 10')	1 1/2"	1/2"	
	126+50	128+50	5' - 11' - 11' - 5'	1 1/2"	1/2"	
	128+50	130+00	(5' - 7') - 11' - 11' - 5'	1 1/2"	1/2"	
	130+00	132+25	(4' - 7') - 11' - 11' - 5'	1 1/2"	1/2"	
	132+25	137+50	6' - 11' - 11' - (4' - 5')	1 1/2"	1/2"	
	137+50	141+25	7' - 11' - 11' - (3' - 5')	1 1/2"	1/2"	
	141+25	157+25	(3' - 7') - 11' - 11' - 4'	1 1/2"	1/2"	
	157+25	157+89	3' - 11' - 11' - 4'	1 1/4"	-	BRIDGE 67
	157+89	160+25	3' - 11' - 11' - (4' - 5')	1 1/2"	1/2"	COARSE-MILLING AND OVERLAY
	160+25	163+00	4' - 11' - 11' - 5'	1 1/2"	1/2"	
	163+00	165+25	5' - 11' - 11' - 6'	1 1/2"	1/2"	

PROJECT NAME: HARDWICK  
PROJECT NUMBER: STP PC23(I)

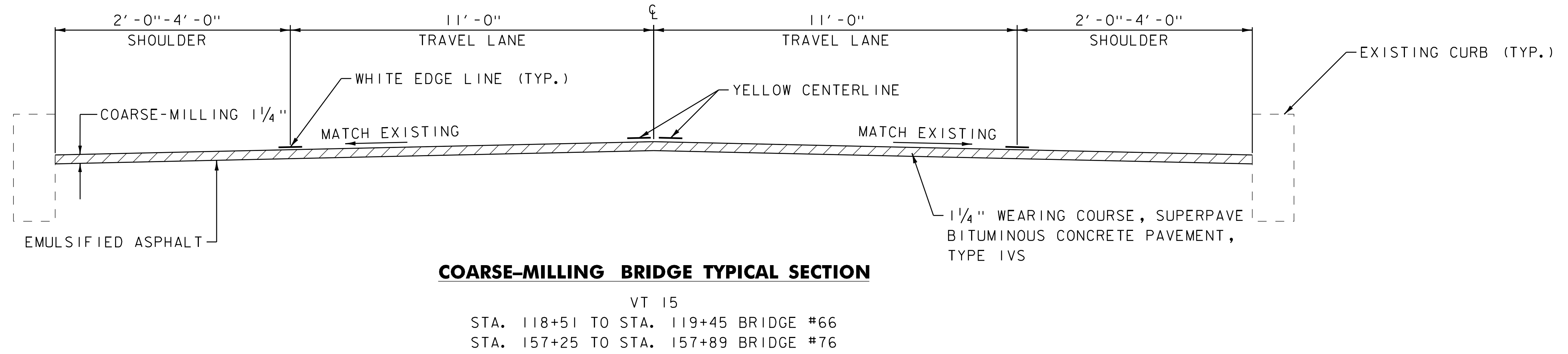
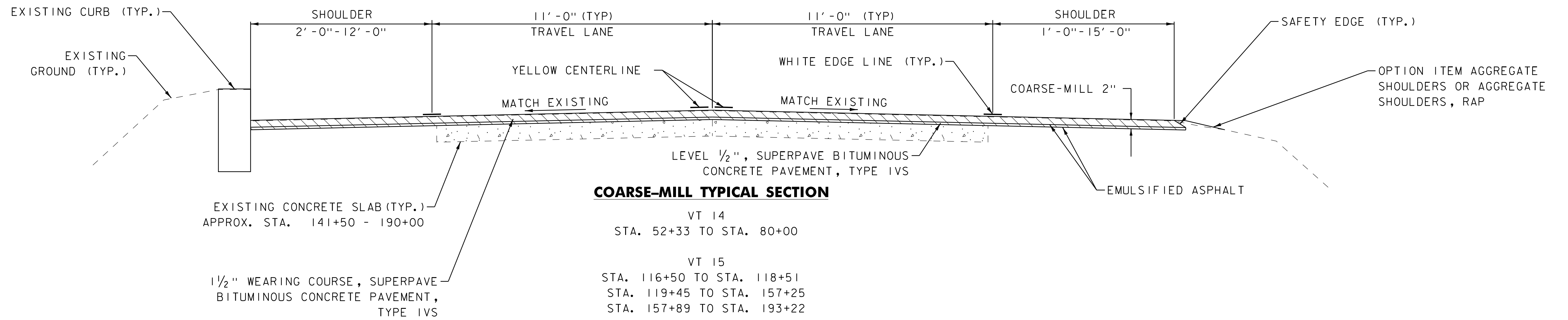
FILE NAME: z19v425typ.dgn  
PROJECT LEADER: C. LATHROP  
DESIGNED BY: T. MATTHEWS  
PROJECT PAVING TABLE SHEET 1

PLOT DATE: 7/28/2021  
DRAWN BY: T. MATTHEWS  
CHECKED BY: C. LATHROP  
SHEET 5 OF 78

**PROJECT PAVING LIMITS**

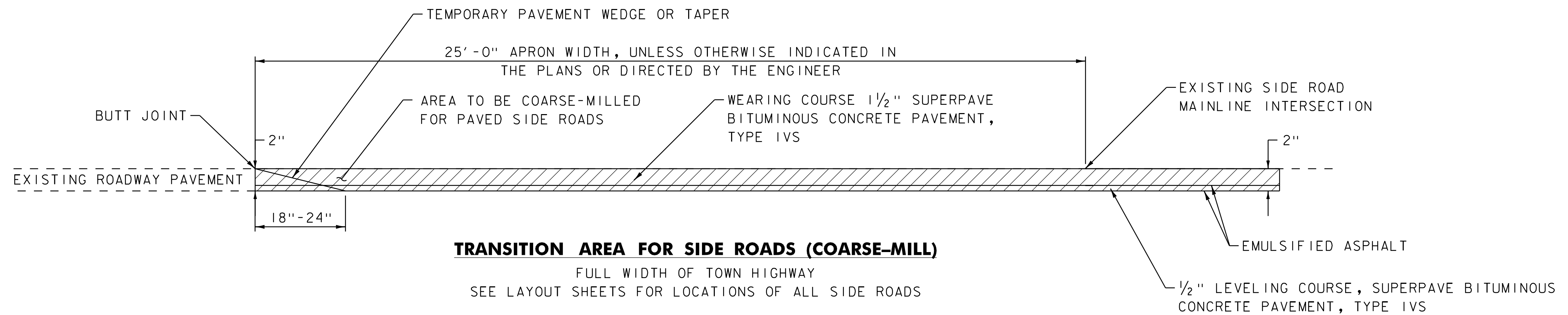
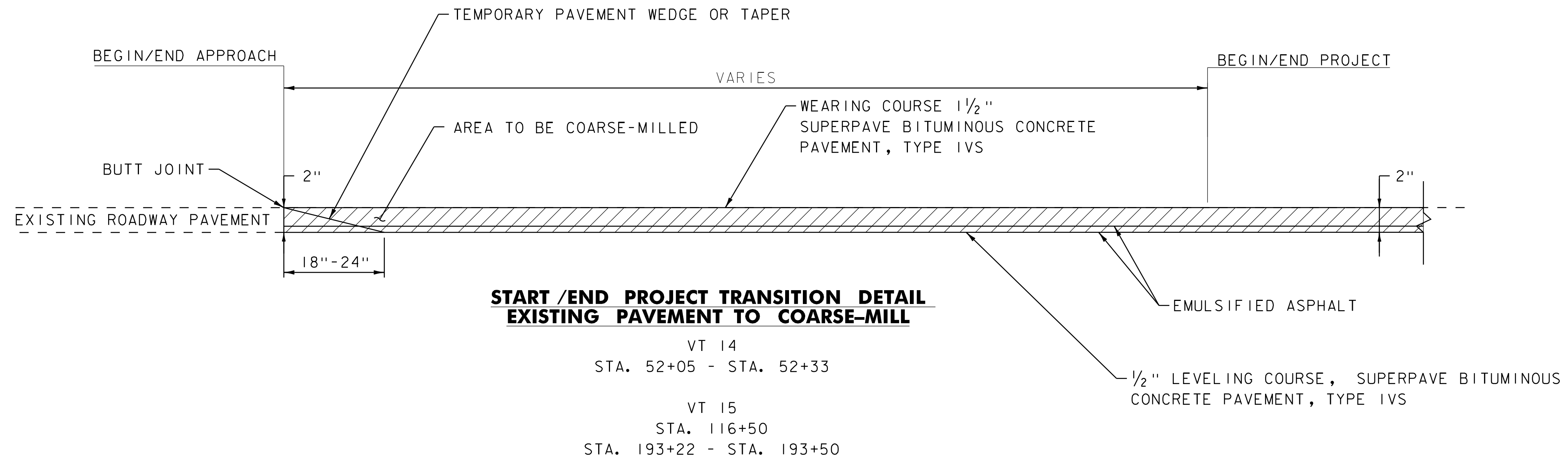
	BEGIN STATION	END STATION	LANE TYPICAL	WEARING DEPTH	LEVELING DEPTH	NOTES
VT 15 HARDWICK						
	165+25	169+25	4' - 11' - 11" - (4' - 6')	1 1/2"	1/2"	COARSE-MILLING AND OVERLAY
	169+25	173+00	3' - 11' - 11" - (3' - 5')	1 1/2"	1/2"	
	173+00	175+00	5' - 11' - 11" - (4' - 6')	1 1/2"	1/2"	
	175+00	176+92	3' - 11' - 11" - 4'	1 1/2"	1/2"	
	176+92	180+09	(1' - 3)' - (11' - 20') - (12' - 16') - (8')	1 1/2"	1/2"	
	180+09	183+75	(2' - 13') - (11' - 19') - (11' - 15') - (8' - 15')	1 1/2"	1/2"	
	183+75	185+05	6' - 11' - 11" - (2' - 7')	1 1/2"	1/2"	
	185+05	190+25	3' - 11' - 11" - (1' - 3')	1 1/2"	1/2"	
	190+25	193+50	4' - 11' - 11" - (3' - 4')	1 1/2"	1/2"	

PROJECT NAME: HARDWICK	
PROJECT NUMBER: STP_PC23(I)	
FILE NAME: z19v425typ.dgn	PLOT DATE: 7/28/2021
PROJECT LEADER: C. LATHROP	DRAWN BY: T. MATTHEWS
DESIGNED BY: T. MATTHEWS	CHECKED BY: C. LATHROP
PROJECT PAVING TABLE SHEET 2	SHEET 6 OF 78



PROJECT NAME: HARDWICK	
PROJECT NUMBER: STP PC23(I)	
FILE NAME: z19v425typ.dgn	PLOT DATE: 7/28/2021
PROJECT LEADER: C. LATHROP	DRAWN BY: T. MATTHEWS
DESIGNED BY: T. MATTHEWS	CHECKED BY: C. LATHROP
PROJECT TYPICAL SECTIONS SHEET 1	SHEET 7 OF 78

NOT TO SCALE



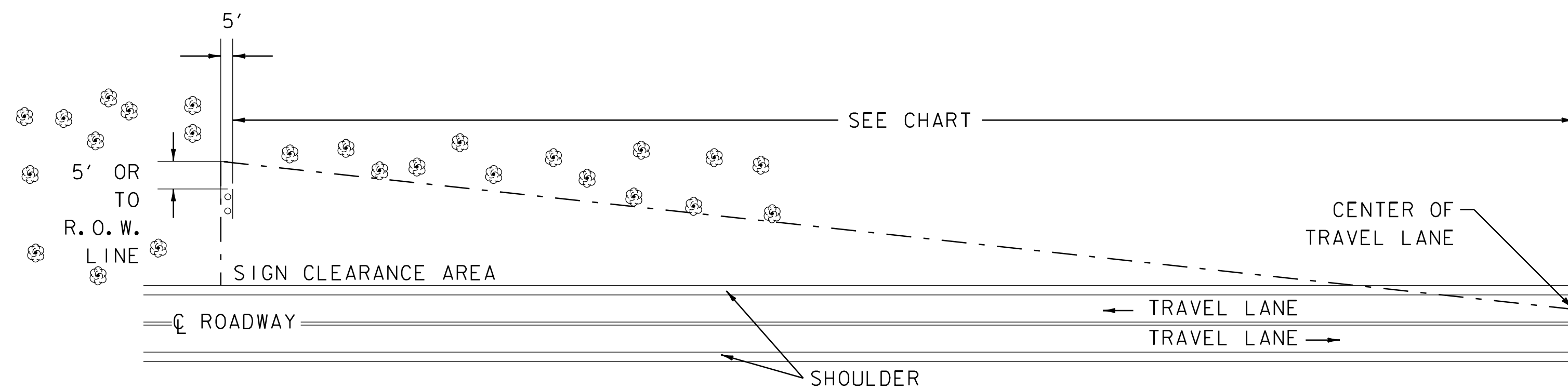
NOT TO SCALE

PROJECT NAME: HARDWICK  
PROJECT NUMBER: STP PC23(I)

FILE NAME: z19v425typ.dgn  
PROJECT LEADER: C. LATHROP  
DESIGNED BY: T. MATTHEWS  
PROJECT TYPICAL SECTIONS SHEET 2

PLOT DATE: 7/28/2021  
DRAWN BY: T. MATTHEWS  
CHECKED BY: C. LATHROP  
SHEET 8 OF 78





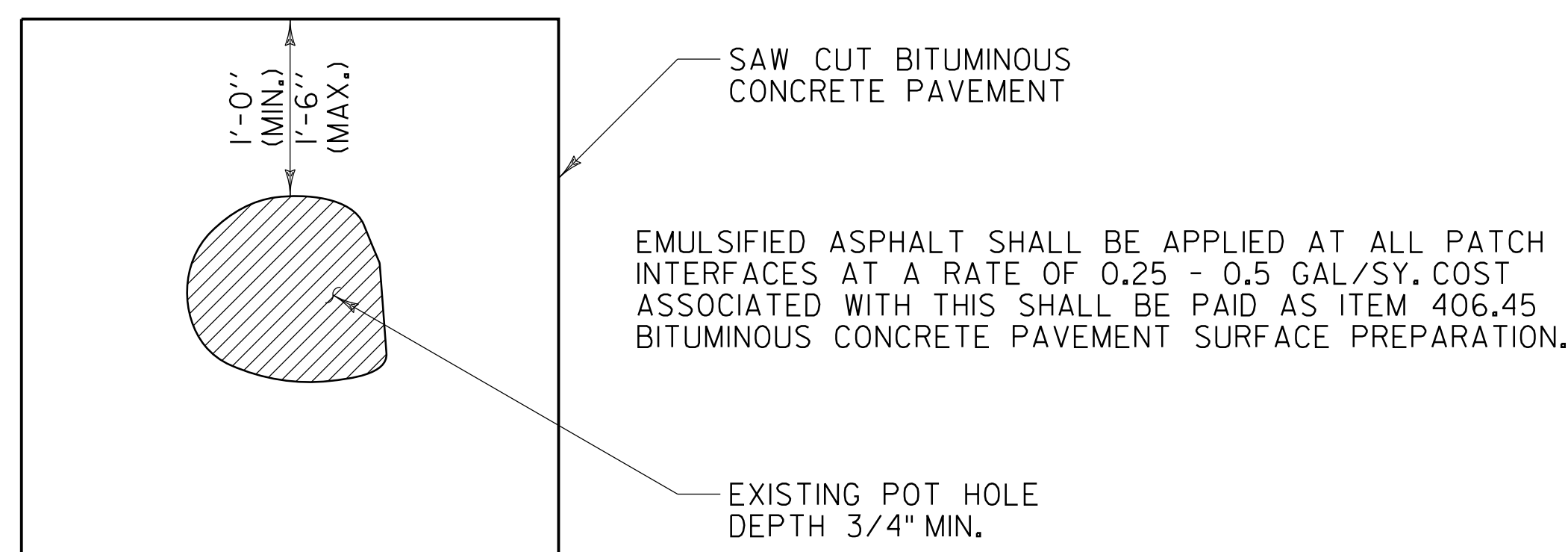
THE CONTRACTOR SHALL REMOVE ALL WOODY STEMMED GROWTH INCLUDING BRUSH, SAPLINGS AND TREE LIMBS GROWING WITHIN OR PROJECTING INTO THE CLEARANCE AREA AND DOWN TO GROUND LEVEL OR AT LEAST 10 FT BELOW THE BOTTOM OF THE SIGN. PAYMENT WILL BE UNDER ITEM 201.31 "THINNING AND TRIMMING FOR SIGNS" AND PAID FOR PER EACH. NO CHEMICALS (POISONS OR DEFOLIANTS) ALLOWED. THE ENGINEER MAY EXCLUDE REMOVAL IN SOME AREAS WHERE DEEMED NECESSARY AND APPROPRIATE OR NECESSITATED BY PERMIT REQUIREMENTS PER THE CONSTRUCTION ENVIRONMENTAL ENGINEER'S RECOMMENDATIONS.

**THINNING AND TRIMMING FOR SIGNS DETAIL**

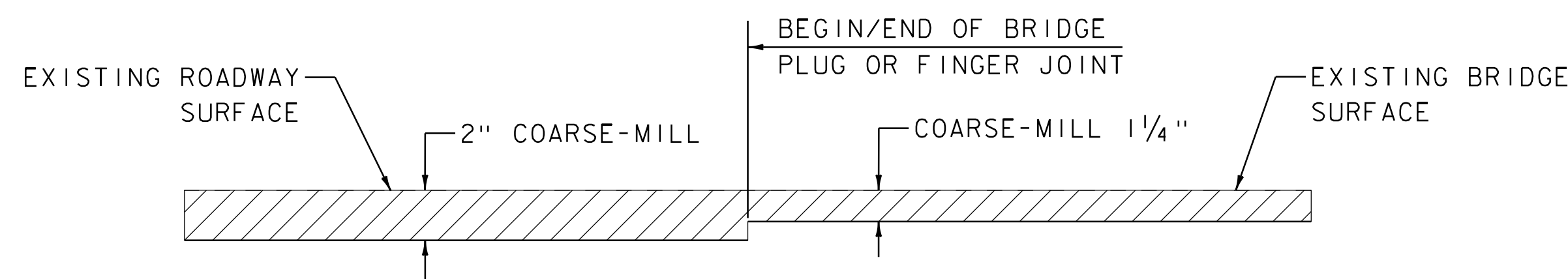
ROUTE 14	ROUTE 15
STA. 52+59 RT	STA. 143+95 RT
	STA. 182+52 LT
	STA. 182+53 LT

**MINIMUM SIGN SIGHT DISTANCE CHART**

APPROACH SPEED (mph)	SIGHT DISTANCE (feet)
30 OR LESS	300
35	350
40	400
45	450
50	500
55	550

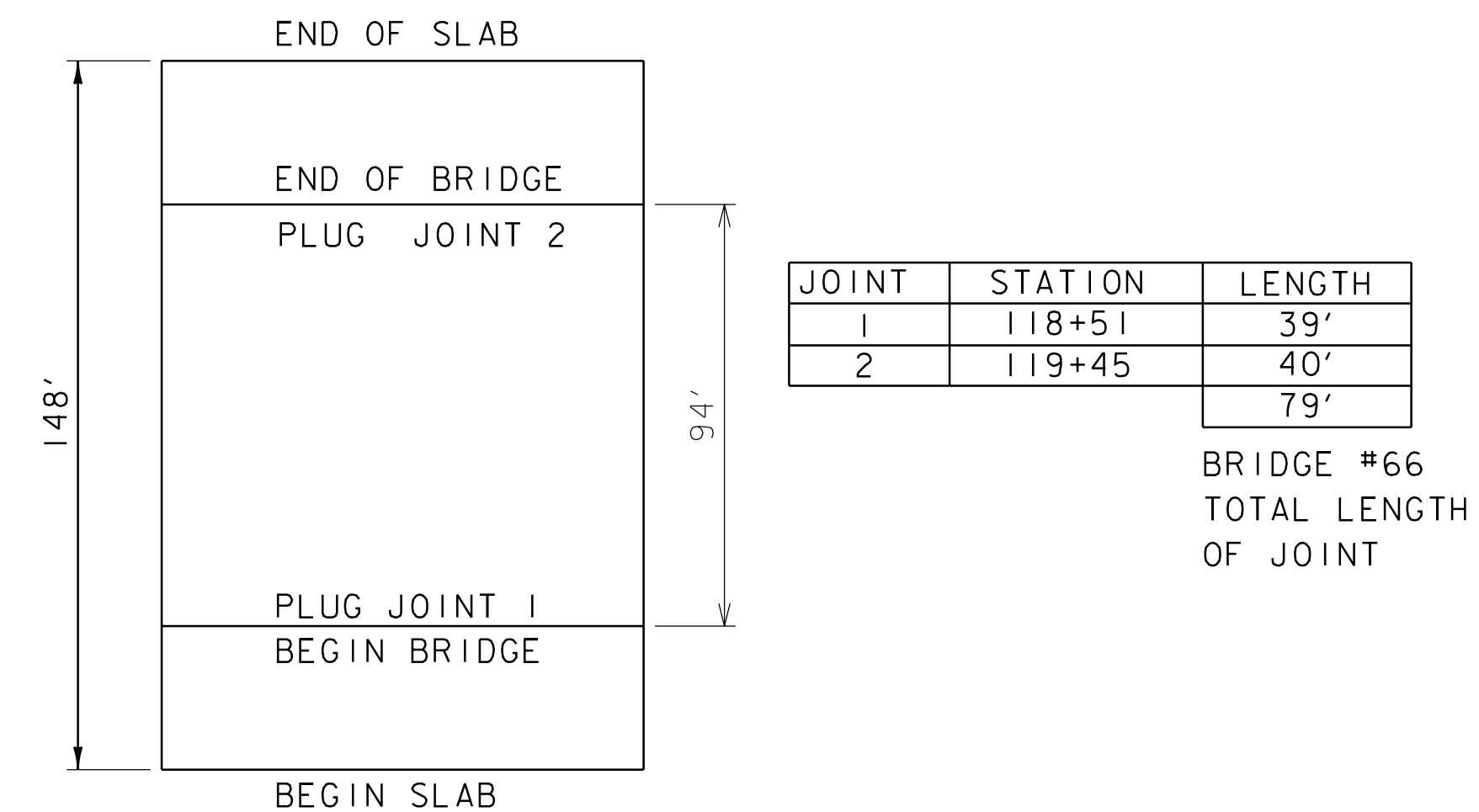


**TYPICAL - POT HOLE REPAIR**  
NOT TO SCALE



**TRANSITION AREA DETAIL - COARSE-MILL TO BRIDGE COARSE-MILL**

ROUTE 15
BRIDGE #66 STA. S 118+51
BRIDGE #66 STA. S 119+45
BRIDGE #67 STA. S 157+25
BRIDGE #67 STA. S 157+89

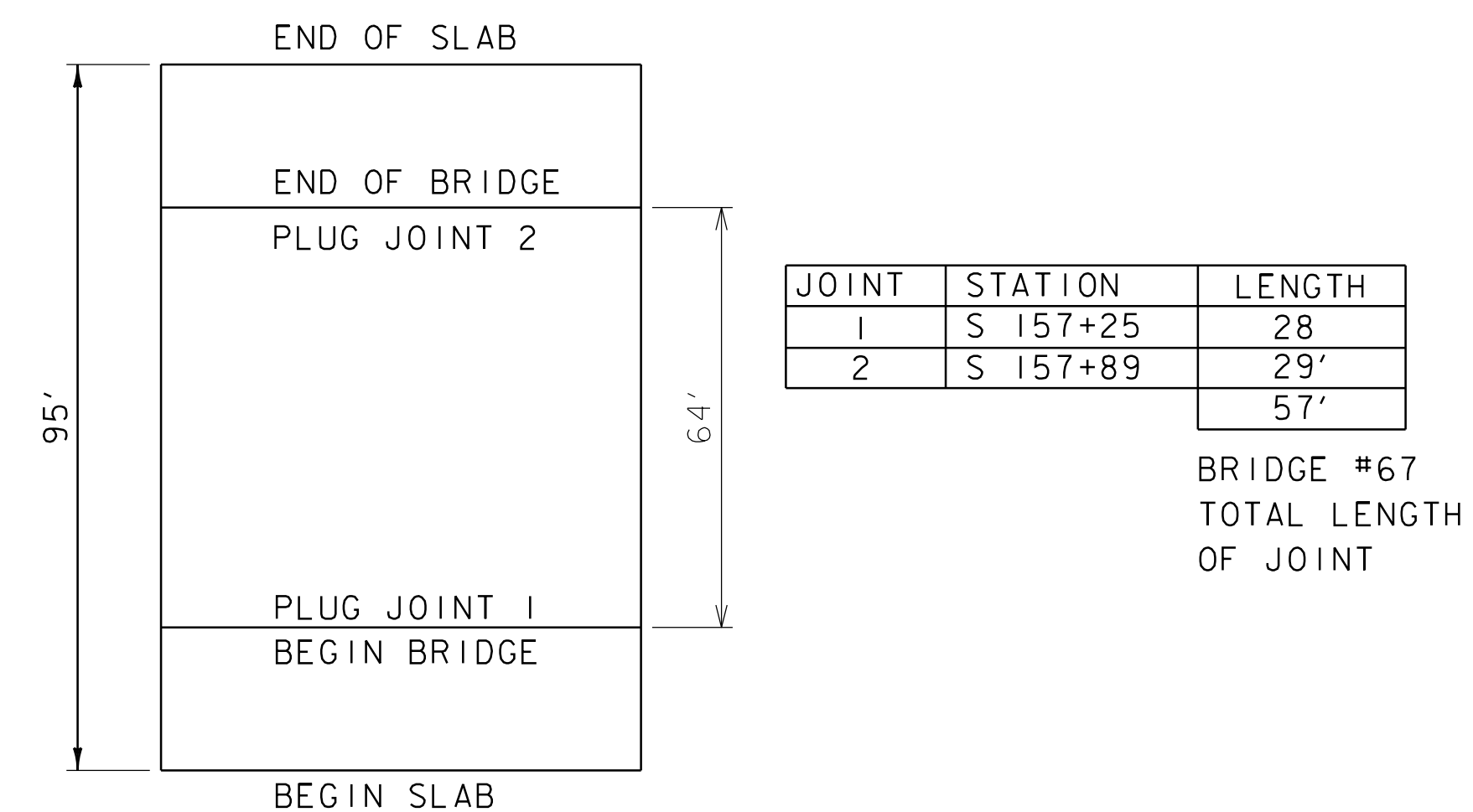


JOINT	STATION	LENGTH
1	118+51	39'
2	119+45	40'
		79'

BRIDGE #66  
TOTAL LENGTH OF JOINT

**HARDWICK BRIDGE #66**

STA. S 119+00



JOINT	STATION	LENGTH
1	S 157+25	28
2	S 157+89	29'
		57'

BRIDGE #67  
TOTAL LENGTH OF JOINT

**HARDWICK BRIDGE #67**

STA. S 157+50

BRIDGE #	*516.10 BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	580.20 RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE
	LF	CF
HARDWICK 66	79'	10
HARDWICK 67	57'	10
SUBTOTAL	136'	20
ROUNDING	4'	-
TOTAL	140'	20

**NOTES:**

\*1. REFER TO BRIDGE JOINT ASPHALTIC PLUG - STD S-400

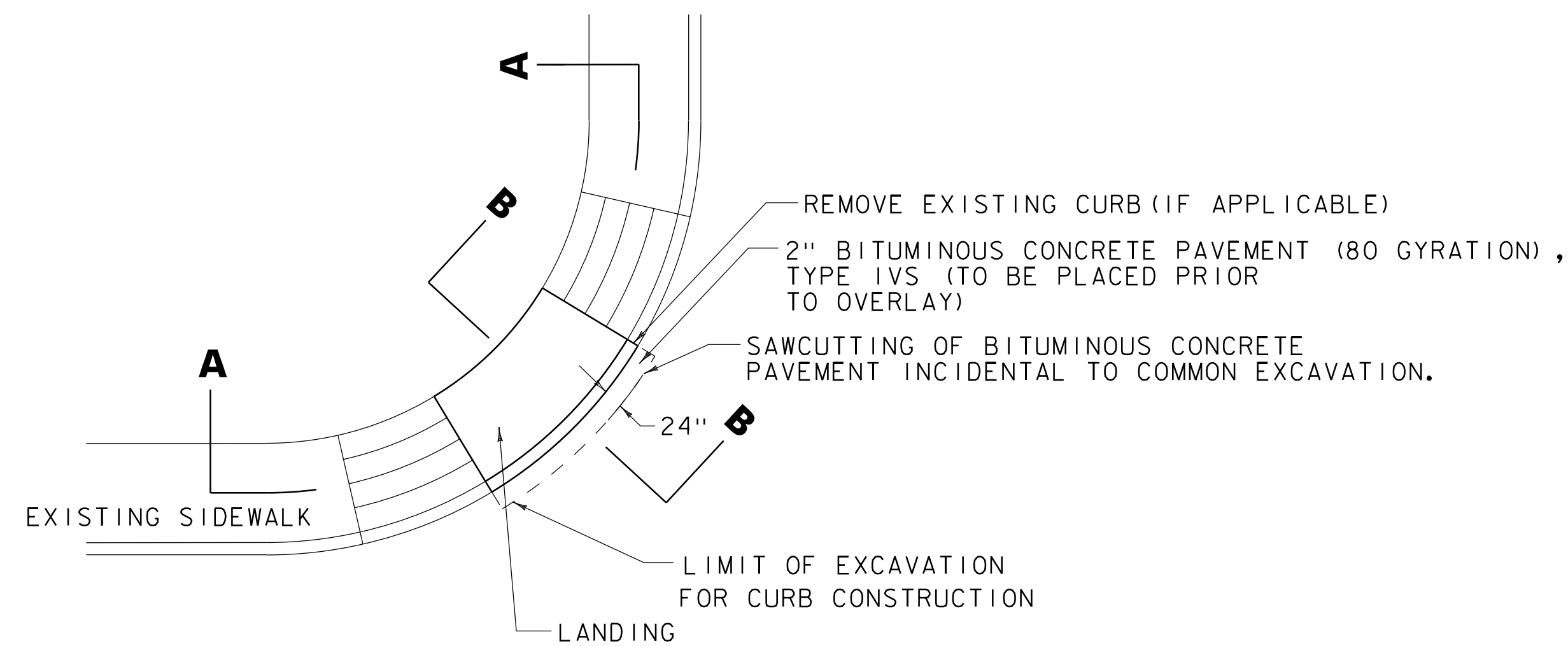


NOT TO SCALE

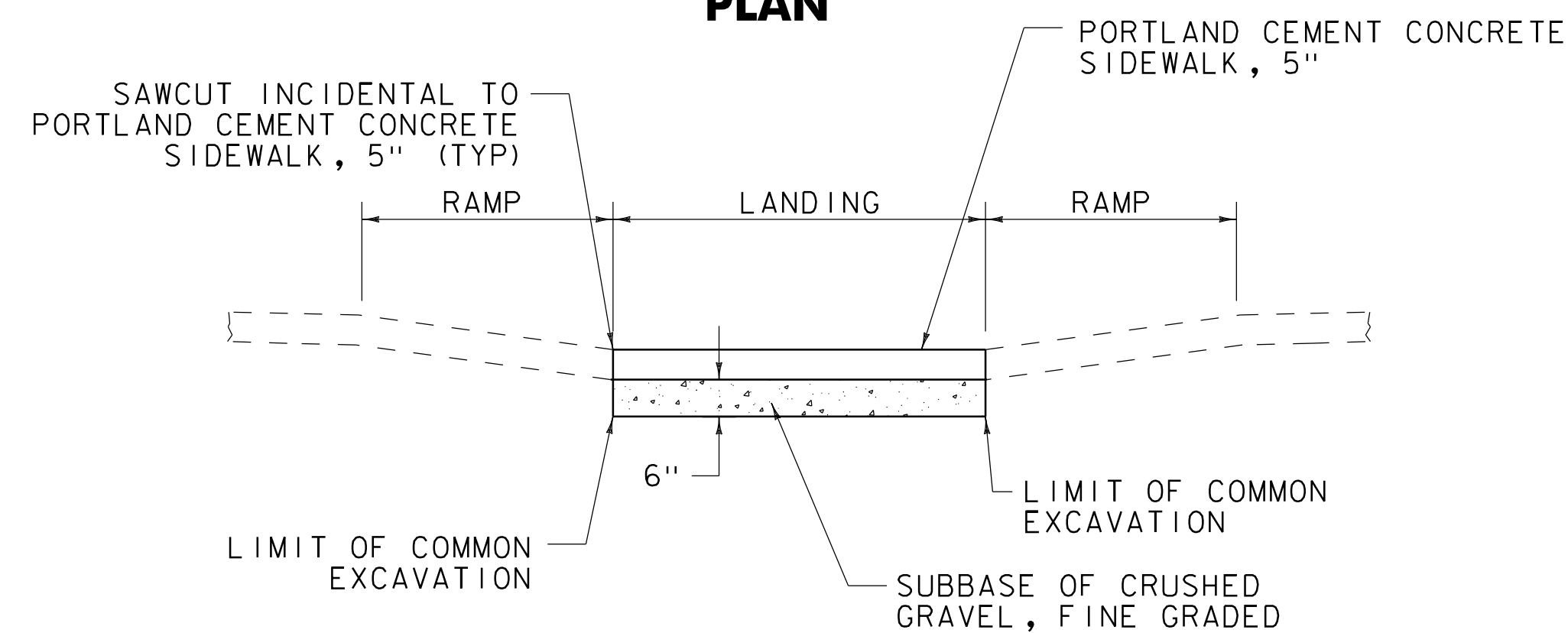
PROJECT NAME: HARDWICK  
PROJECT NUMBER: NH PS22(2)

FILE NAME: z19v439typ.dgn  
PROJECT LEADER: C. LATHROP  
DESIGNED BY: S. SOLLA  
DETAIL SHEET 1

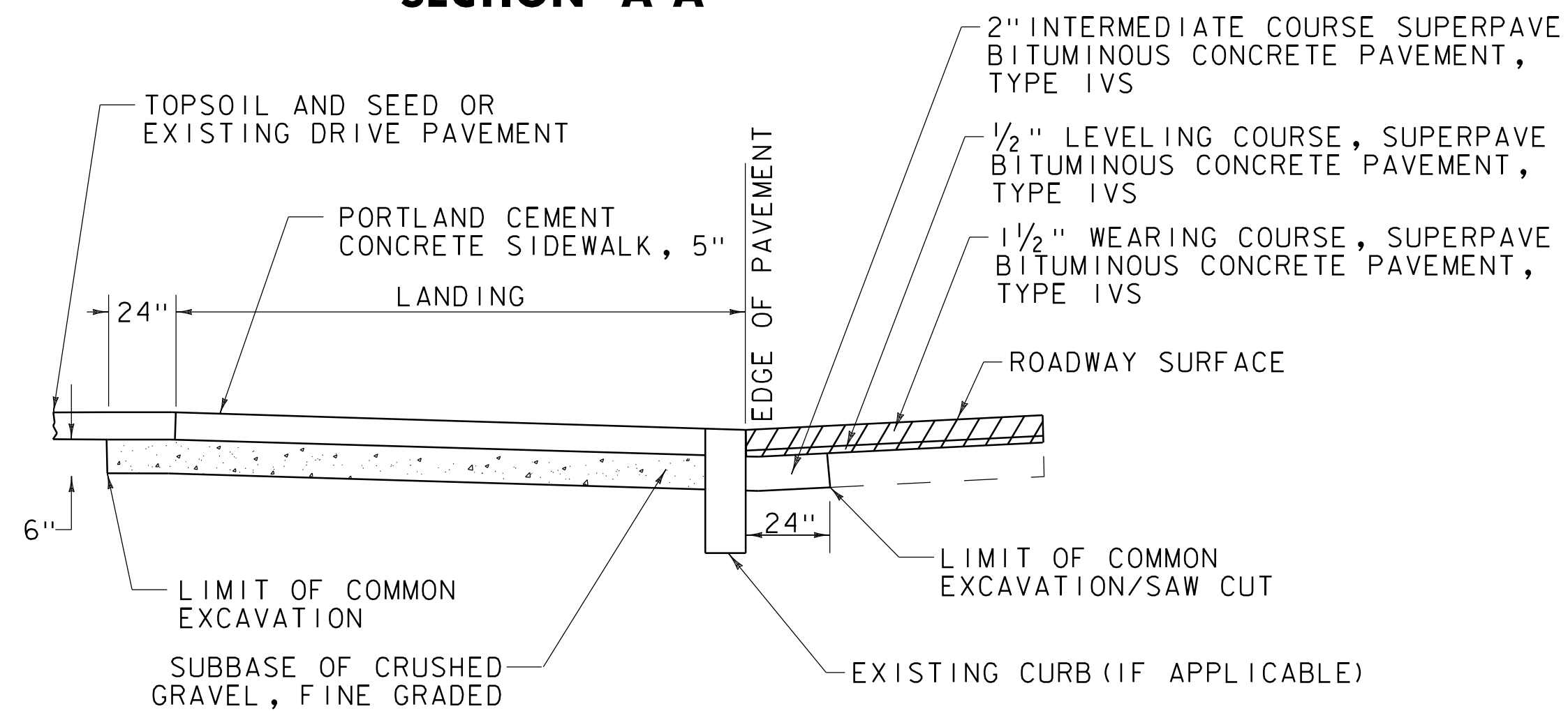
PLOT DATE: 7/28/2021  
DRAWN BY: O. DALMER  
CHECKED BY: C. LATHROP  
SHEET 9 OF 78



**PLAN**



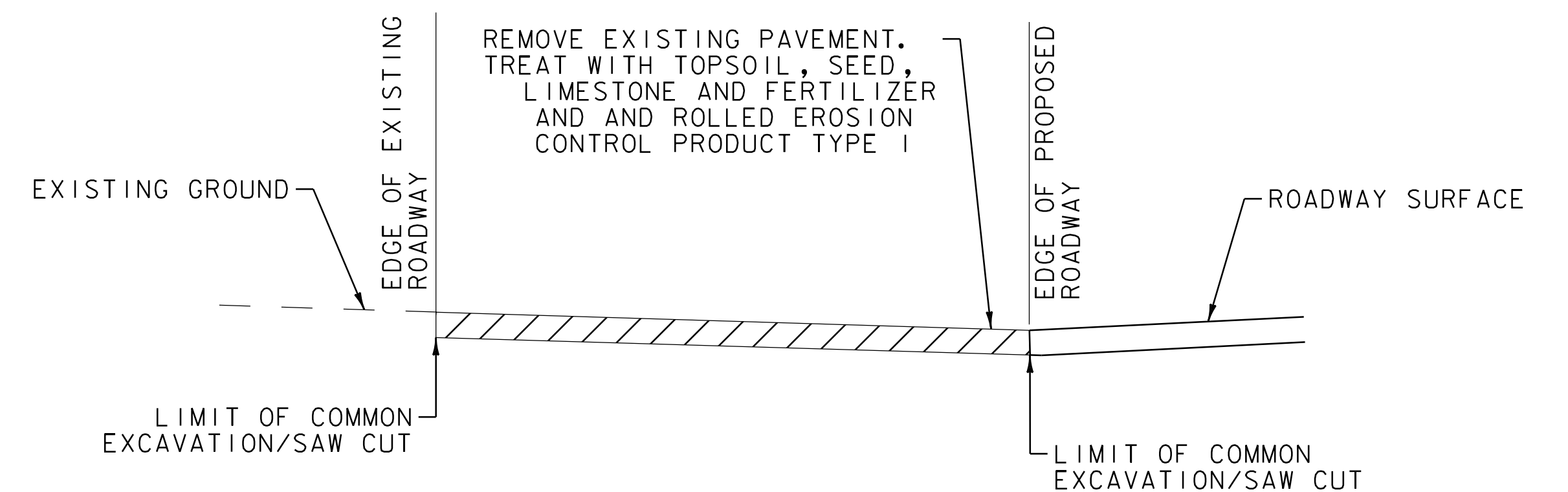
**SECTION A-A**



**SECTION B-B**

**SIDEWALK RAMP PAY LIMIT DETAILS**

- NOTE:
1. THIS DETAIL IS FOR PAY LIMITS ONLY. FOR INDIVIDUAL RAMP CONFIGURATIONS, SLOPES, DIMENSIONS, ETC., SEE VTRANS STANDARDS C-3A/C-3B.
  2. SEE PROJECT LAYOUT SHEETS FOR LOCATIONS OF RAMPS TO BE RECONSTRUCTED.
  3. REMOVAL OF EXISTING SIDEWALK AND CURB TO BE PAID UNDER ITEM 203.15 "COMMON EXCAVATION."
  4. NEW BITUMINOUS CONCRETE PAVEMENT SHALL BE PAID UNDER ITEM 406.35 "SUPERPAVE BITUMINOUS CONCRETE PAVEMENT."



**PAVEMENT REMOVAL PAY LIMIT DETAILS**

NOTE:

1. SEE PROJECT LAYOUT SHEETS FOR LOCATIONS.
2. REMOVAL OF EXISTING PAVEMENT TO BE PAID UNDER ITEM 203.15 COMMON EXCAVATION.
3. ALL DISTURBED AREAS SHALL BE TREATED WITH 2" TOPSOIL, SEED, LIMESTONE, FERTILIZER AND ROLLED EROSION CONTROL PRODUCT TYPE 1.



NOT TO SCALE

PROJECT NAME:	HARDWICK	FILE NAME:	z19v439typ.dgn	PLOT DATE:	7/28/2021
PROJECT NUMBER:	NH PS22(2)	PROJECT LEADER:	C. LATHROP	DRAWN BY:	O. DALMER
		DESIGNED BY:	S. SOLLA	CHECKED BY:	C. LATHROP
		DETAIL SHEET 2		SHEET	10 OF 78

BULB OUT LAYOUT DETAILS TO BE  
DEVELOPED FOR FINAL PLANS

PROJECT NAME: HARDWICK  
PROJECT NUMBER: STP PC23(I)

FILE NAME: z19v425typ.dgn  
PROJECT LEADER: C. LATHROP  
DESIGNED BY: T. MATTHEWS  
BULB OUT DETAIL SHEET I

PLOT DATE: 7/28/2021  
DRAWN BY: T. MATTHEWS  
CHECKED BY: C. LATHROP  
SHEET II OF 78

NOT TO SCALE

BULB OUT LAYOUT DETAILS TO BE  
DEVELOPED FOR FINAL PLANS

PROJECT NAME: HARDWICK  
PROJECT NUMBER: STP PC23(I)

FILE NAME: z19v425typ.dgn  
PROJECT LEADER: C. LATHROP  
DESIGNED BY: T. MATTHEWS  
BULB OUT DETAIL SHEET 2

PLOT DATE: 7/28/2021  
DRAWN BY: T. MATTHEWS  
CHECKED BY: C. LATHROP  
SHEET 12 OF 78

NOT TO SCALE

# QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
							1011 - ROADWAY	1211 - BRIDGE NO. 1	1999 - FULL C.E. ITEMS	OPTION	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
							4				4		EACH	THINNING AND TRIMMING FOR SIGNS	201.31	-			COARSE-MILLING BITUMINOUS PAVEMENT
							150				150		CY	COMMON EXCAVATION	203.15	7	38691 SY		MAINLINE
							100				100		CY	EARTH BORROW	203.30	EST.	3570 SY		SIDERoadS
							1				1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-	42261 SY		SUBTOTAL
							42300				42300		SY	COARSE-MILLING, BITUMINOUS PAVEMENT	210.10	39	39 SY		ROUNDING
							215				215		TON	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.28	5	42300 SY		TOTAL
							455				455		CWT	EMULSIFIED ASPHALT	404.65	5			SUBBASE OF CRUSHED GRAVEL, FINE GRADED
							1				1		LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	406.28	-	80 TON		SIDEWALKS
							6350				6350		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	406.35	75	34 TON		BULBOUts
							1770				1770		SY	HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES	406.38	23.5	96 TON		SHOULDER RECONSTRUCTION
							50				50		TON	BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION	406.45	EST.	210 TON		SUBTOTAL
							1				1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-	5 TON		ROUNDING
								140			140		LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	4	215 TON		TOTAL
								20			20		CF	RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE	580.20	EST.			SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
							7				7		EACH	CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES	604.40	-			MATERIAL TRANSFER VEHICLE
							38				38		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	-	4468 TON		WEARING COURSE TYPE IVS
							5				5		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II	604.415	-	1237 TON		LEVELING COURSE TYPE IVS
							5				5		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS III	604.418	-	124 TON		PROFILE DEFICIENCIES TYPE IVS
							32				32		EACH	CHANGING ELEVATION OF SEWER MANHOLES	604.42	-	22 TON		MAINLINE SAFETY EDGE TYPE IVS
							40				40		HR	POWER GRADER RENTAL	608.15	EST.	424 TON		SIDERoadS TYPE IVS
							50				50		HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST.	6275 TON		SUBTOTAL
							40				40		HR	POWER BROOM RENTAL, TYPE I	608.30	EST.	75 TON		ROUNDING
							30				30		HR	POWER BROOM RENTAL, TYPE II	608.31	EST.	6350 TON		TOTAL
							100				100		HR	TRUCK RENTAL	608.37	EST.			
							40				40		HR	LOADER RENTAL, TYPE I	608.40	EST.			
							20				20		CY	STONE FILL, TYPE I	613.10	EST.			
							40				40		LF	VERTICAL GRANITE CURB	616.21	-			
							250				250		LF	CAST-IN-PLACE CONCRETE CURB, TYPE B	616.28	9			
							70				70		LF	REMOVAL OF EXISTING CURB	616.41	6			
							5				5		EACH	REMOVE AND RESET MAILBOX, SINGLE SUPPORT	617.10	EST.			
							1				1		EACH	REMOVE AND RESET MAILBOX, MULTIPLE SUPPORT	617.12	EST.			
							130				130		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.10	7			
							265				265		SF	DETECTABLE WARNING SURFACE	618.30	5			
							5				5		EACH	YIELDING MARKER POSTS	619.17	-			
							175				175		LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	-			
							17				17		EACH	TRAFFIC BARRIER DELINEATOR	621.218	-			
							4				4		EACH	ANCHOR FOR STEEL BEAM RAIL	621.60	-			
							10				10		EACH	REPLACE GUARDRAIL POST ASSEMBLY	621.76	-			
							4				4		EACH	REPLACE GUARDRAIL BEAM UNIT	621.77	EST.			
							450				450		LF	ADJUST HEIGHT OF GUARDRAIL	621.79	12.5			



PROJECT NAME: HARDWICK  
 PROJECT NUMBER: STP PC23(I)  
 FILE NAME: z19v425qty.dgn  
 PROJECT LEADER: C. LATHROP  
 DESIGNED BY: S. SOLLA  
 QUANTITY SHEET 1  
 PLOT DATE: 7/28/2021  
 DRAWN BY: O. DALMER  
 CHECKED BY: C. LATHROP  
 SHEET 13 OF 78

# QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
							1011 - ROADWAY	1211 - BRIDGE NO. 1	1999 - FULL C.E. ITEMS	OPTION	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
							150				150		LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	-			ROLLED EROSION CONTROL PRODUCT, TYPE I
							5				5		EACH	REMOVAL AND DISPOSAL OF GUIDE POSTS	621.81	1	100 SY		GUARDRAIL END SECTIONS
							42				42		EACH	ADJUST ELEVATION OF VALVE BOX	629.20	-	65 SY		BULBOUT AREAS
							400				400		HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.	36 SY		PAVEMENT REMOVAL AREA
							5000				5000		HR	FLAGGERS	630.15	EST.	201 SY		SUBTOTAL
									1		1		LS	FIELD OFFICE, ENGINEERS	631.10	-	9 SY		ROUNDING
									1		1		LS	TESTING EQUIPMENT, CONCRETE	631.16	-	210 SY		TOTAL
									1		1		LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-			
									3000		3000		DL	FIELD OFFICE COMMUNICATIONS (N.A.B.I.)	631.26	-			
							5				5		EACH	CPM SCHEDULE	633.10	-			
							1				1		LS	MOBILIZATION/DEMOBILIZATION	635.11	-			
							1				1		LS	TRAFFIC CONTROL, ALL-INCLUSIVE	641.11	-			
							4				4		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-			
							44700				44700		LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.602	504			
							42100				42100		LF	TEMPORARY 4 INCH YELLOW LINE, PAINT	646.612	436			
							450				450		LF	TEMPORARY 8 INCH WHITE LINE, PAINT	646.642	24			
							800				800		LF	TEMPORARY 24 INCH STOP BAR, PAINT	646.682	12			
							262				262		EACH	TEMPORARY LETTER OR SYMBOL, PAINT	646.692	-			
							1200				1200		LF	TEMPORARY CROSSWALK MARKING, PAINT	646.702	80			
							4400				4400		EACH	LINE STRIPING TARGETS	646.76	92			
							125				125		LB	SEED	651.15	EST.			
							250				250		LB	FERTILIZER	651.18	EST.			
							1				1		TON	AGRICULTURAL LIMESTONE	651.20	EST.			
							40				40		CY	TOPSOIL	651.35	EST.			
							20				20		SY	GRUBBING MATERIAL (6")	651.40	-			
							210				210		SY	ROLLED EROSION CONTROL PRODUCT, TYPE I	653.20	9			
							800				800		SF	TRAFFIC SIGN, TYPE A	675.20	4.49			
							324				324		LB	TUBULAR STEEL SIGN POST	675.33	-			
							1345				1345		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	-			
							2				2		EACH	FOUNDATION FOR TUBULAR STEEL POST	675.43	-			
							158				158		EACH	REMOVING SIGNS	675.50	-			
							10				10		EACH	RESETTING SIGNS	675.60	-			
							5				5		EACH	DELINEATOR WITH STEEL POST	676.10	-			
							5				5		EACH	REMOVAL OF EXISTING DELINEATOR AND POST	676.12	-			
							1				1		LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	-			
														BEGIN OPTION AGGREGATE SHOULDERS					
										480	480		TON	AGGREGATE SHOULDERS	402.12	7			
														END OPTION AGGREGATE SHOULDERS					
														BEGIN OPTION AGGREGATE SHOULDERS, RAP					
										480	480		TON	AGGREGATE SHOULDERS, RAP	402.13	7			



PROJECT NAME: HARDWICK  
 PROJECT NUMBER: STP PC23(I)  
 FILE NAME: z19v425qty.dgn  
 PROJECT LEADER: C. LATHROP  
 DESIGNED BY: S. SOLLA  
 QUANTITY SHEET 2  
 PLOT DATE: 7/28/2021  
 DRAWN BY: O. DALMER  
 CHECKED BY: C. LATHROP  
 SHEET 14 OF 78

# QUANTITY SHEET 3

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
							1011 - ROADWAY	1211 - BRIDGE NO. 1	1999 - FULL C.E. ITEMS	OPTION	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
														END OPTION AGGREGATE SHOULDERS, RAP					
														BEGIN OPTION EPOXY PAVEMENT LINES ITEMS					
										22400	22400		LF	DURABLE 4 INCH WHITE LINE, EPOXY PAINT	646.403	311			
										21200	21200		LF	DURABLE 4 INCH YELLOW LINE, EPOXY PAINT	646.413	210			
										220	220		LF	DURABLE 8 INCH WHITE LINE, EPOXY PAINT	646.443	7			
														END OPTION EPOXY PAVEMENT LINES ITEMS					
														BEGIN OPTION POLYUREA PAVEMENT LINES ITEMS					
										22400	22400		LF	DURABLE 4 INCH WHITE LINE, POLYUREA	646.404	311			
										21200	21200		LF	DURABLE 4 INCH YELLOW LINE, POLYUREA	646.414	210			
										220	220		LF	DURABLE 8 INCH WHITE LINE, POLYUREA	646.444	7			
														END OPTION POLYUREA PAVEMENT LINES ITEMS					
														BEGIN OPTION EPOXY STOP BAR ITEMS					
										400	400		LF	DURABLE 24 INCH STOP BAR, EPOXY PAINT	646.483	6			
														END OPTION EPOXY STOP BAR ITEMS					
														BEGIN OPTION POLYUREA STOP BAR ITEMS					
										400	400		LF	DURABLE 24 INCH STOP BAR, POLYUREA	646.484	6			
														END OPTION POLYUREA STOP BAR ITEMS					
														BEGIN OPTION EPOXY LETTER OR SYMBOL ITEMS					
										131	131		EACH	DURABLE LETTER OR SYMBOL, EPOXY PAINT	646.493	-			
														END OPTION EPOXY LETTER OR SYMBOL ITEMS					
														BEGIN OPTION POLYUREA LETTER OR SYMBOL ITEMS					
										131	131		EACH	DURABLE LETTER OR SYMBOL, POLYUREA	646.494	-			
														END OPTION POLYUREA LETTER OR SYMBOL ITEMS					
														BEGIN OPTION EPOXY CROSSWALK ITEMS					
										560	560		LF	DURABLE CROSSWALK MARKING, EPOXY PAINT	646.503	-			
														END OPTION EPOXY CROSSWALK ITEMS					
														BEGIN OPTION POLYUREA CROSSWALK ITEMS					
										560	560		LF	DURABLE CROSSWALK MARKING, POLYUREA	646.504	-			
														END OPTION POLYUREA CROSSWALK ITEMS					



PROJECT NAME: HARDWICK  
 PROJECT NUMBER: STP PC23(I)  
 FILE NAME: z19v425qty.dgn  
 PROJECT LEADER: C. LATHROP  
 DESIGNED BY: S. SOLLA  
 QUANTITY SHEET 3  
 PLOT DATE: 7/28/2021  
 DRAWN BY: O. DALMER  
 CHECKED BY: C. LATHROP  
 SHEET 15 OF 78

STATE OF VERMONT  
AGENCY OF TRANSPORTATION

ITEM DETAIL SUMMARY SHEET 1

BEGIN STATION	END STATION	POS.	203.15 COMMON EXCAVATION	402.12 OR 402.13 AGGREGATE SHOULDERS (OPTION ITEM)	604.40 CHANGE ELEV OF DI, CB OR MH	604.412, 604.415, 604.418 REHAB. DI, CB OR MH CLASS I, II, III	604.42 CHANGE ELEV OF SMH	613.10 STONE FILL, TYPE I	616.21 VERT GRAN CURB	616.28 CIP CON CURB TYP B	616.41 REMOVE OF EXIST CURB	618.10 PORT. CEM. SWLK. 5"	618.30 DET. WARN. SURF.	619.17 YIELD MARKER POSTS	629.20 ADJUST ELEV OF VALVE BOX	651.40 GRUBBING MATERIAL (6")	653.20 ROLLED EROSION CONTROL PRODUCT TYPE I	REMARKS
			CY	TON	EACH	EACH	EACH	CY	LF	LF	LF	SY	SF	EACH	EACH	SY	SY	
VT 14				167	5	25	11	10						0	19	10		FOR USE BY THE ENGINEER
56+91	57+43	RT	11														36	PAVEMENT REMOVAL
57+88	57+98	RT	4									5	10					
61+88	61+96	RT	3									3	8					
62+20	62+29	RT	3									4	8					
62+73	62+82	RT	3									4	8					
63+28	63+33	RT	3									3	10					
73+25	73+40	RT	10						30		26	11	10				7	
73+31	73+41	LT	4						10		10	6	10					
79+55	79+62	RT	3									7	14					
VT 15				306	2	23	21	10						5	23	10		FOR USE BY THE ENGINEER
143+63	143+73	LT	4									6	10					
144+14	144+24	LT	3									4	10					
152+79	152+90	LT	5							12	12	7	10					
152+84	152+89	RT	3									3	10					
162+73	162+78	RT	3									3	10					
163+21	163+26	RT	3									3	10					
165+69	165+79	LT	4									5	10					
165+72	165+86	RT	5									6	10					
166+14	166+19	RT	3									3	10					
168+66	168+71	RT	2									2	8					
168+99	169+04	RT	2									3	8					
174+56	174+71	RT	5									9	10					
174+61	174+66	LT	3									3	10					
SUBTOTAL			89	473	7	48	32	20	40	12	48	100	204	5	42	20	43	



PROJECT NAME: HARDWICK  
 PROJECT NUMBER: STP PC23(I)  
 FILE NAME: z19v4251ds.dgn  
 PROJECT LEADER: C. LATHROP  
 DESIGNED BY: S. SOLLA  
 ITEM DETAIL SHEET 1  
 PLOT DATE: 7/28/2021  
 DRAWN BY: O. DALMER  
 CHECKED BY: C. LATHROP  
 SHEET 16 OF 78



STATE OF VERMONT  
AGENCY OF TRANSPORTATION

ITEM DETAIL SUMMARY SHEET 2

BEGIN STATION	END STATION	POS.	203.15 COMMON EXCAVATION	402.12 OR 402.13 AGGREGATE SHOULDERS (OPTION ITEM)	604.40 CHANGE ELEV OF DI, CB OR MH	604.412, 604.415, 604.418 REHAB. DI, CB OR MH CLASS I, II, III	604.42 CHANGE ELEV OF SMH	613.10 STONE FILL, TYPE I	616.21 VERT GRAN CURB	616.28 CIP CON CURB TYP B	616.41 REMOVE OF EXIST CURB	618.10 PORT. CEM. SWLK. 5"	618.30 DET. WARN. SURF.	619.17 YIELD MARKER POSTS	629.20 ADJUST ELEV OF VALVE BOX	651.40 GRUBBING MATERIAL	653.20 ROLLED EROSION CONTROL PRODUCT TYPE I	REMARKS
			CY	TON	EACH	EACH	EACH	CY	LF	LF	LF	SY	SF	EACH	EACH	SY	SY	
178+18	178+34	RT	6							40							5	
179+67	179+73	RT	2									4	8					
181+45	181+63	RT	8							46							9	
181+69	181+74	RT	2									3	10					
181+80	182+32	RT	21							96							38	
182+33	182+40	RT	2									4	8					
182+43	182+55	RT	5							31							6	
182+49	182+54	LT	3									16	4	10				
184+40	184+46	RT	2									5	10					
184+47	184+52	LT	3							16		3	10					
SUBTOTAL THIS SHEET			54	-	-	-	-	-	-	229	16	23	56	-	-	-	58	
SUBTOTAL SHEET 1			89	473	7	48	32	20	40	12	48	100	204	5	42	20	43	
ROUNDING			7	7	-	-	-	EST	0	9	6	7	5	-	-	EST	-	
TOTAL			150	480	7	48	32	20	40	250	70	130	265	5	42	20	101	



PROJECT NAME: HARDWICK  
PROJECT NUMBER: STP PC23(I)  
FILE NAME: z19v4251ds.dgn  
PROJECT LEADER: C. LATHROP  
DESIGNED BY: S. SOLLA  
ITEM DETAIL SHEET 2  
PLOT DATE: 7/28/2021  
DRAWN BY: O. DALMER  
CHECKED BY: C. LATHROP  
SHEET 17 OF 78

STATE OF VERMONT  
AGENCY OF TRANSPORTATION

GUARDRAIL DETAIL SUMMARY SHEET

BEGIN STATION	END STATION	POS.	203.30 EARTH BORROW	621.20 STEEL BEAM G.R. GALV	621.218 TRAFFIC BARRIER DELINE.	621.60 ANCHOR FOR S.B. G.R.	621.76 REP G.R. POST ASSEM	621.77 REP G.R. BEAM UNIT	621.79 ADJUST HEIGHT OF G.R.	621.80 REMOVE & DISP. OF G.R.	621.81 REMOVE & DISP. OF GUIDE POST	653.20 ROLLED EROSION CONTROL PRODUCT TYPE I	676.10 DELINE WITH STEEL POSTS	676.12 REMOVAL OF EXIST. DELINE.	
			CY	LF	EACH	EACH	EACH	EACH	LF	LF	EACH	SY	EACH	EACH	
VT 15							10	4							
117+23	118+25	RT	25	37.5	3	1			37.5	37.5		25	1	1	SEE VTRANS STD G1-D FOR TERMINAL END SECTION DETAILS
118+07	118+19	LT	25	12.5		1				12.5		25	1	1	SEE VTRANS STD G1-D FOR TERMINAL END SECTION DETAILS
119+45	120+58	LT	25	37.5	2	1			75	37.5		25	1	1	SEE VTRANS STD G1-D FOR TERMINAL END SECTION DETAILS
119+69	120+11	RT			3				50.0				1	1	
170+35	173+97	LT	25	87.5	9	1			275	62.5	4	25	1	1	SEE VTRANS STD G1-D FOR TERMINAL END SECTION DETAILS
SUBTOTAL			100	175	17	4	10	4	437.5	150	4	100	5	5	
ROUNDING			EST	-	-	-	-	-	12.5	-	1	EST	-	-	
TOTAL			100	175	17	4	10	4	450	150	5	100	5	5	



PROJECT NAME: HARDWICK  
 PROJECT NUMBER: STP PC23(I)  
 FILE NAME: z19v4251ds.dgn  
 PROJECT LEADER: C. LATHROP  
 DESIGNED BY: S. SOLLA  
 GUARDRAIL DETAIL SHEET  
 PLOT DATE: 7/28/2021  
 DRAWN BY: O. DALMER  
 CHECKED BY: C. LATHROP  
 SHEET 18 OF 78

**CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES**

STATION	POSITION	DESCRIPTION
VT 14		
67+15	LT	DMH
68+06	LT	DMH
70+82	LT	DMH
73+15	LT	DMH
73+21	LT	DMH
VT 15		
173+82	LT	DMH
182+37	LT	DMH

**REHAB DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I, CLASS II, CLASS III**

STATION	POSITION	DESCRIPTION
VT 14		
52+79	RT	GRATE TYPE D
55+56	RT	GRATE TYPE E
57+90	RT	GRATE TYPE E
58+29	LT	GRATE TYPE E
61+19	LT	GRATE TYPE E
61+68	LT	GRATE TYPE E
61+91	RT	GRATE TYPE E
67+13	RT	GRATE TYPE C
70+20	RT	GRATE TYPE C
70+61	LT	GRATE TYPE C
72+75	RT	GRATE TYPE D
72+83	RT	GRATE TYPE C

**REHAB DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I, CLASS II, CLASS III**

STATION	POSITION	DESCRIPTION
73+11	RT	GRATE TYPE C
73+20	RT	GRATE TYPE C
74+17	LT	GRATE TYPE D
74+17	RT	GRATE TYPE D
75+80	RT	GRATE TYPE D
76+07	LT	GRATE TYPE D
77+01	RT	GRATE TYPE D
77+46	RT	GRATE TYPE D
78+51	LT	GRATE TYPE D
78+88	RT	GRATE TYPE D
78+88	LT	GRATE TYPE D
79+31	RT	GRATE TYPE D
79+81	RT	GRATE TYPE D
VT 15		
116+80	LT	GRATE TYPE D
117+62	LT	GRATE TYPE D
152+52	RT	GRATE TYPE E
153+57	RT	GRATE TYPE D
154+92	RT	GRATE TYPE E
160+21	LT	GRATE TYPE D
160+21	RT	GRATE TYPE D
163+22	RT	GRATE TYPE D
166+76	LT	GRATE TYPE D
172+17	RT	GRATE TYPE D
173+83	RT	GRATE TYPE D
174+86	LT	GRATE TYPE D
174+87	RT	GRATE TYPE D
178+53	RT	GRATE TYPE D
179+80	RT	GRATE TYPE D
180+62	LT	GRATE TYPE D
181+76	RT	GRATE TYPE D
182+47	LT	GRATE TYPE D
182+59	RT	GRATE TYPE D
182+84	RT	GRATE TYPE E
185+09	LT	GRATE TYPE D
185+23	RT	GRATE TYPE E
189+08	RT	GRATE TYPE D

**CHANGING ELEVATION OF SEWER MANHOLES**

STATION	POSITION	DESCRIPTION
VT 14		
52+97	LT	SMH
54+97	RT	SMH
57+84	RT	SMH
61+30	RT	SMH
62+99	RT	SMH
65+27	RT	SMH
67+36	RT	SMH
70+78	RT	SMH
72+92	RT	SMH
72+98	RT	SMH
76+46	LT	SMH
VT 15		
144+09	LT	SMH
148+52	RT	SMH
152+60	RT	SMH
153+81	LT	SMH
163+00	RT	SMH
165+82	LT	SMH
165+82	LT	SMH
167+88	LT	SMH
168+76	LT	SMH
168+84	RT	SMH
174+21	LT	SMH
175+67	LT	SMH
175+89	RT	SMH
178+50	LT	SMH
181+72	CTR	SMH
182+25	LT	SMH
182+96	RT	SMH
183+47	LT	SMH
185+26	LT	SMH
185+33	RT	SMH
188+77	RT	SMH

**ADJUST ELEVATION OF VALVE BOX**

STATION	POSITION	DESCRIPTION
VT 14		
52+84	LT	WSO
55+19	RT	WSO
55+61	RT	WSO

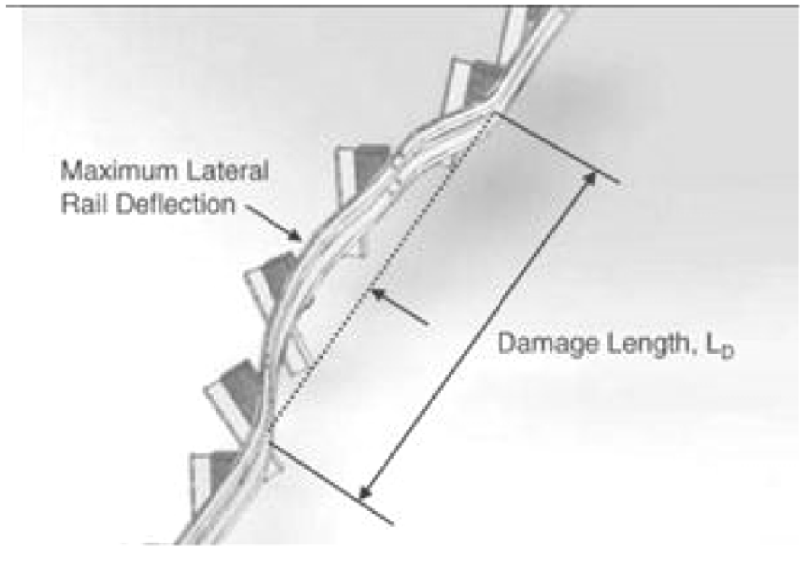
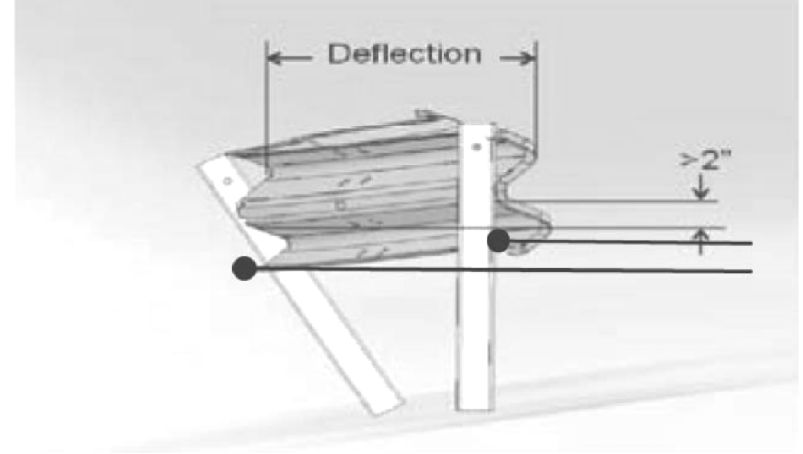
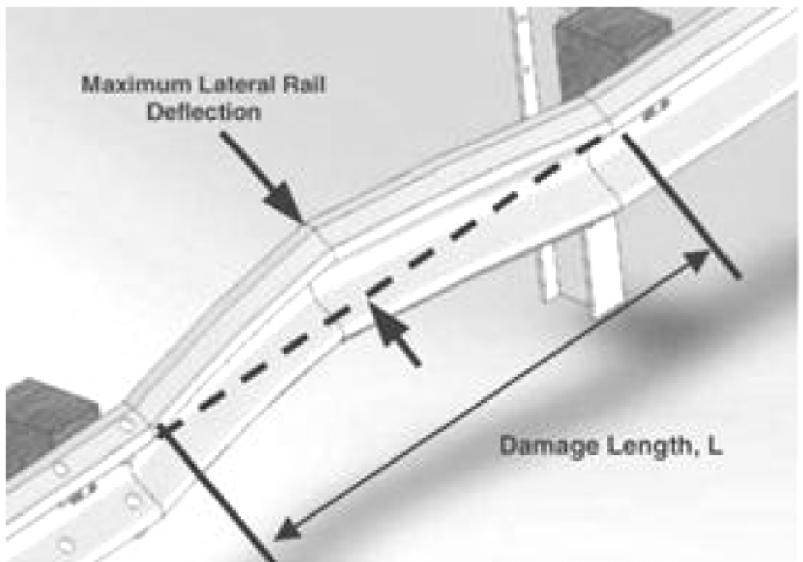
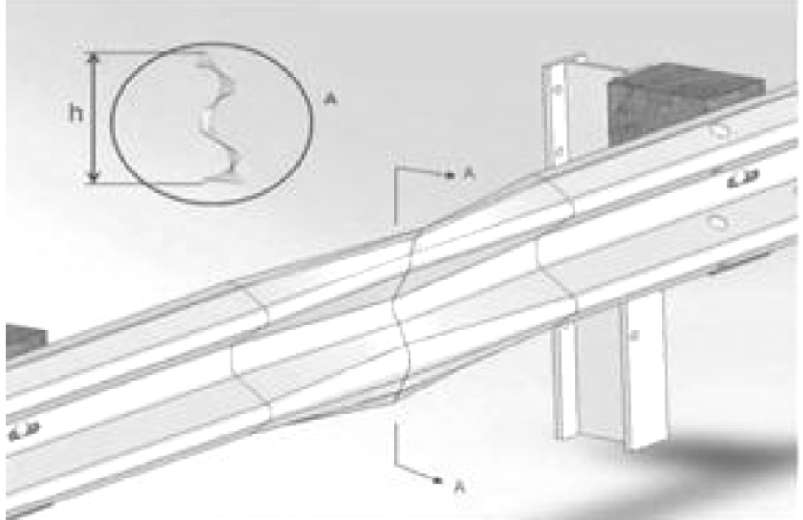
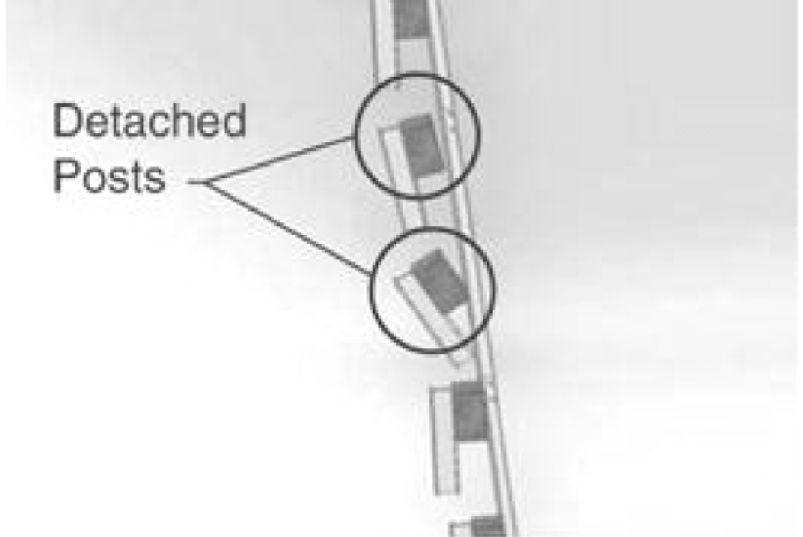
**ADJUST ELEVATION OF VALVE BOX**

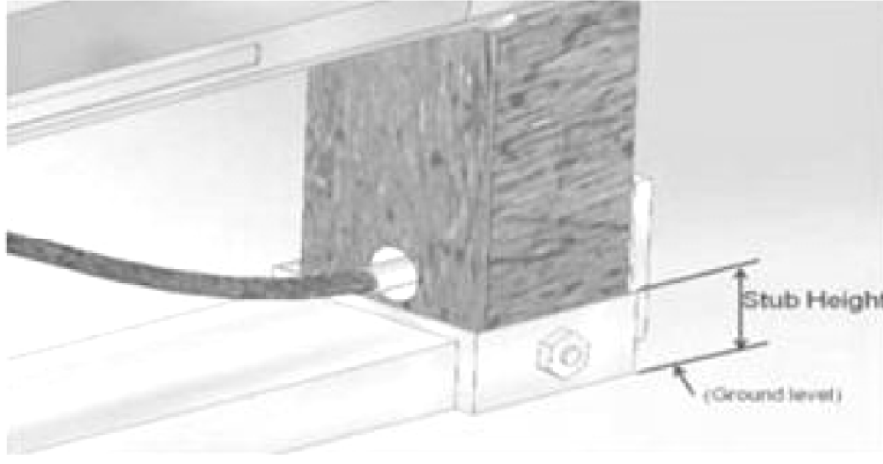
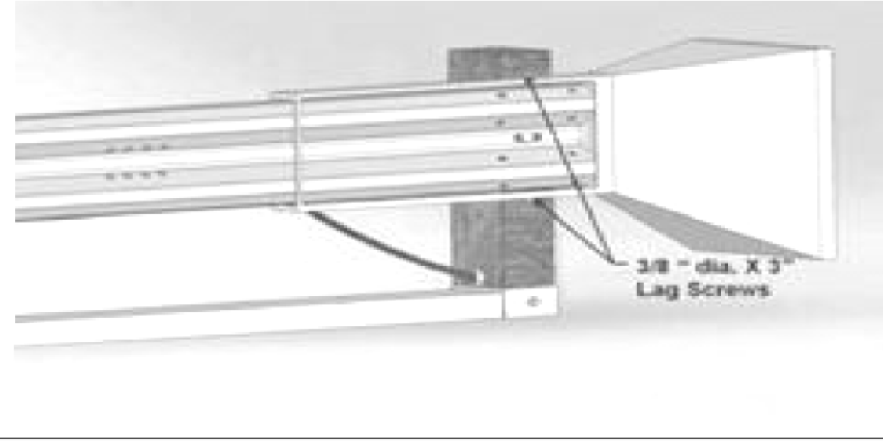
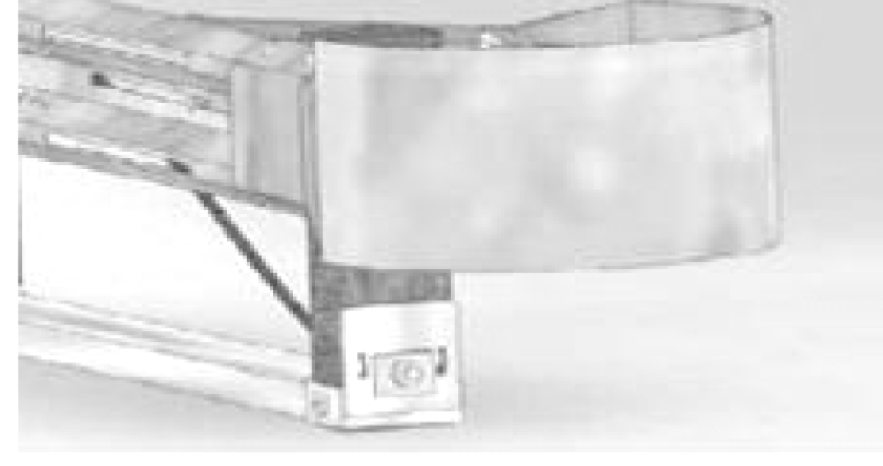
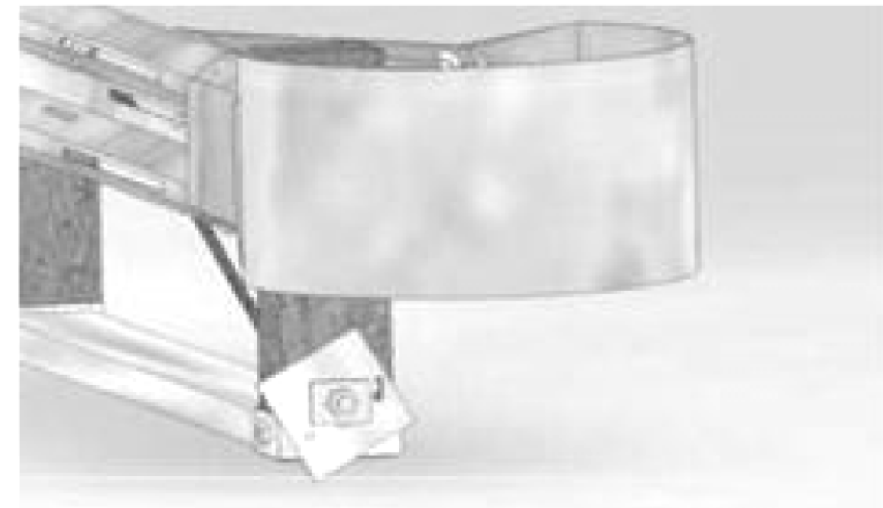
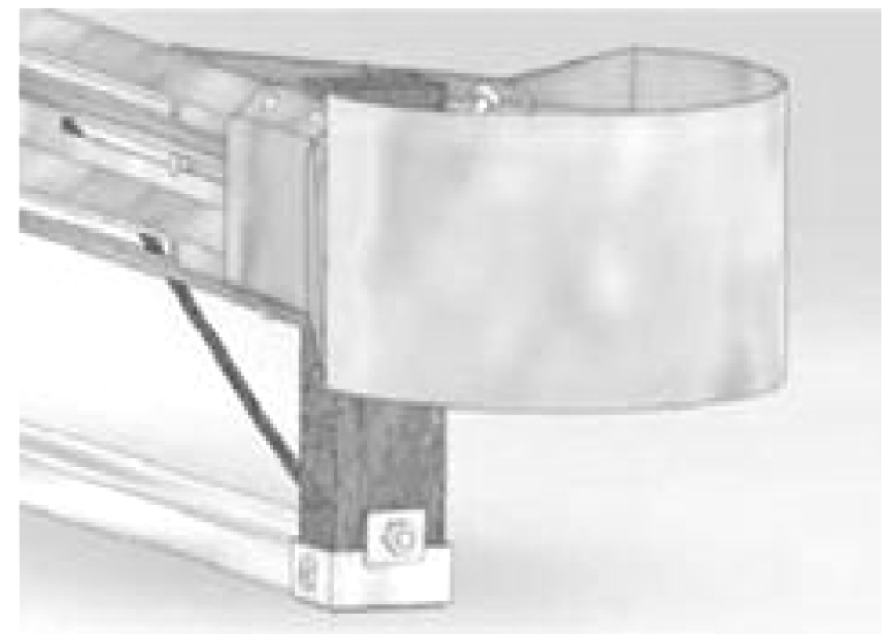
STATION	POSITION	DESCRIPTION
55+76	RT	WSO
57+64	RT	WSO
57+65	RT	WSO
58+17	LT	WSO
58+28	LT	WSO
58+95	LT	WSO
61+96	RT	WSO
62+06	LT	WSO
65+99	LT	GV
70+93	LT	GV
72+88	LT	WSO
72+91	LT	WSO
73+29	LT	WSO
73+32	LT	WSO
76+29	LT	WSO
79+39	LT	GV
VT 15		
152+30	RT	GV
153+47	RT	WSO
163+14	RT	GV
164+09	RT	GV
165+76	RT	GV
165+95	RT	GV
168+96	RT	GV
176+63	RT	GV
177+14	LT	GV
177+72	RT	GV
178+81	RT	GV
179+61	RT	GV
180+04	RT	GV
180+41	RT	GV
180+54	LT	GV
181+63	RT	GV
181+73	RT	GV
181+84	RT	GV
181+91	RT	GV
183+27	LT	GV
184+89	LT	GV
188+33	LT	GV
188+62	RT	GV



PROJECT NAME: HARDWICK  
PROJECT NUMBER: STP PC23(I)

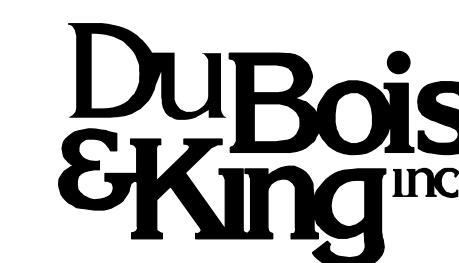
FILE NAME: z19v425det.dgn PLOT DATE: 7/28/2021  
PROJECT LEADER: C. LATHROP DRAWN BY: O. DALMER  
DESIGNED BY: S. SOLLIA CHECKED BY: C. LATHROP  
STRUCTURE AND VALVE INVENTORY SHEET SHEET 19 OF 78

DAMAGE TYPE	REPAIR THRESHOLD	RELATIVE PRIORITY	MEASUREMENT
POST AND RAIL DEFLECTION	ONE OR MORE OF THE FOLLOWING THRESHOLDS: <ul style="list-style-type: none"> <li>MORE THAN 9 IN. OF LATERAL DEFLECTION ANYWHERE OVER A 25 FT LENGTH OF RAILTOP OF RAIL</li> <li>HEIGHT 2 OR MORE IN. LOWER THAN ORIGINAL TOP OF RAIL HEIGHT</li> </ul>	HIGH	
	6 - 9 IN. LATERAL DEFLECTION ANYWHERE OVER A 25-FT LENGTH OF RAIL	MEDIUM	
	LESS THAN 6 IN. OF LATERAL DEFLECTION OVER A 25-FT LENGTH OR RAIL	LOW	(WEAK POST W-BEAM SHOWN ONLY FOR CLARITY, EACH MEASUREMENT TAKEN AT THE RAIL'S MIDDLE FOLD)
RAIL DEFLECTION ONLY	6 - 9 IN. OF LATERAL DEFLECTION BETWEEN ANY TWO ADJACENT POSTS. NOTE: FOR DEFLECTION OVER 9 IN., USE POST/RAIL DEFLECTION GUIDELINES	MEDIUM	
	LESS THAN 6 IN. OF LATERAL DEFLECTION BETWEEN ANY TWO ADJACENT POSTS	LOW	
RAIL FLATTENING	ONE OR MORE OF THE FOLLOWING THRESHOLDS: <ul style="list-style-type: none"> <li>RAIL CROSS SECTION HEIGHT MORE THAN 17 IN. (SUCH AS MAY OCCUR IF RAIL IS FLATTENED)</li> <li>RAIL CROSS SECTION HEIGHT LESS THAN 9 IN. (SUCH AS A DENT TO TOP EDGE)</li> </ul>	MEDIUM	
	RAIL CROSS SECTION HEIGHT BETWEEN 9 AND 17 IN.	LOW	
POSTS SEPARATED FROM RAIL	<ul style="list-style-type: none"> <li>2 OR MORE POSTS WITH BLOCKOUT ATTACHED WITH POST/RAIL SEPARATION LESS THAN 3 IN.</li> <li>1 OR MORE POSTS WITH POST/RAIL SEPARATION WHICH EXCEEDS 3 IN.</li> </ul>	MEDIUM	
	1 POST, WITH BLOCKOUT ATTACHED, WITH POST/RAIL SEPARATION LESS THAN 3 IN.	LOW	NOTE: 1. IF THE BLOCKOUT IS NOT FIRMLY ATTACHED TO THE POST, USE THE MISSING BLOCKOUT GUIDELINES. 2. DAMAGE SHOULD ALSO BE EVALUATED AGAINST POST/RAIL DEFLECTION GUIDELINES.

DAMAGE	REPAIR THRESHOLD	RELATIVE PRIORITY	MEASUREMENT
STUB HEIGHT	HEIGHT WHICH EXCEEDS 4 IN.	MEDIUM	
LAG SCREWS (ENERGY ABSORBING TERMINALS ONLY)	MISSING OR FAILED LAG SCREWS	HIGH	
BEARING PLATE	LOOSE OR MISALIGNED	MEDIUM	 (CORRECT BEARING PLATE)
	MISSING BEARING PLATE	HIGH	 (MISALIGNED BEARING PLATE)  (MISSING BEARING PLATE)

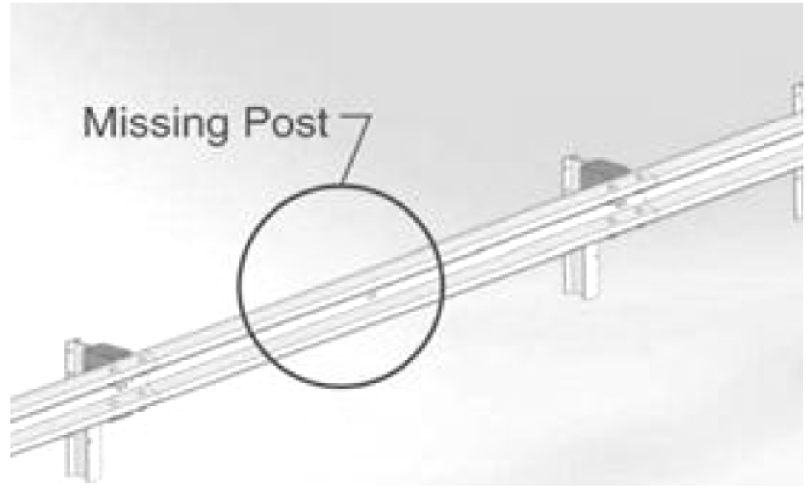
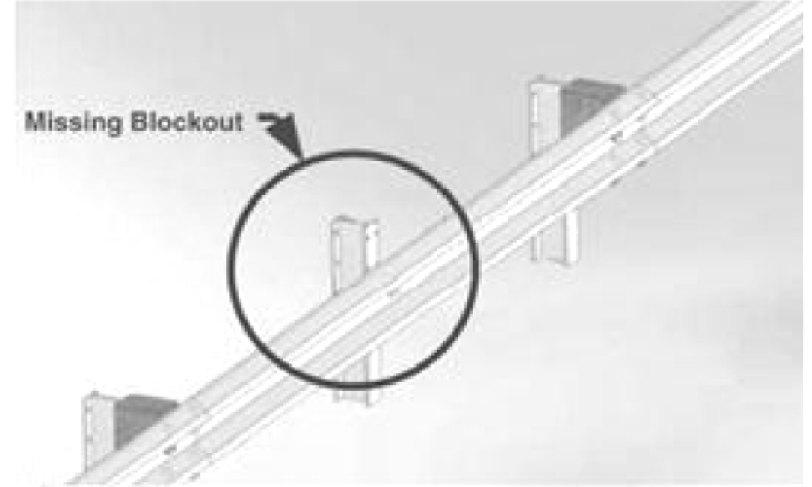
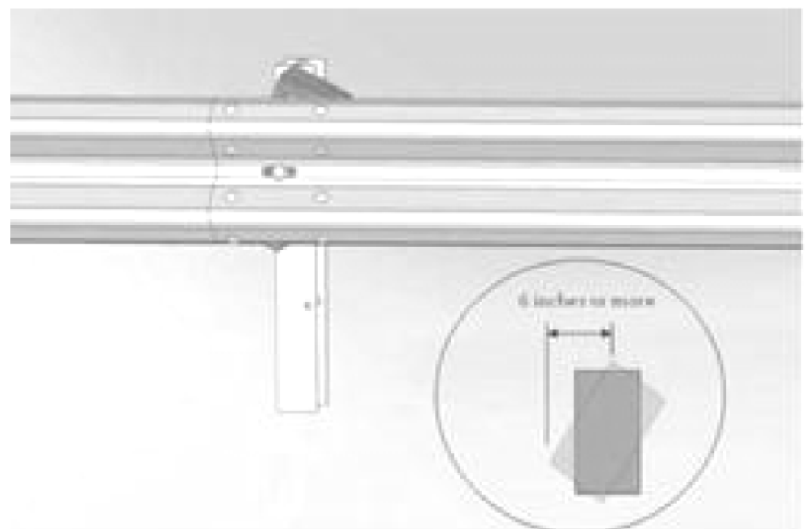
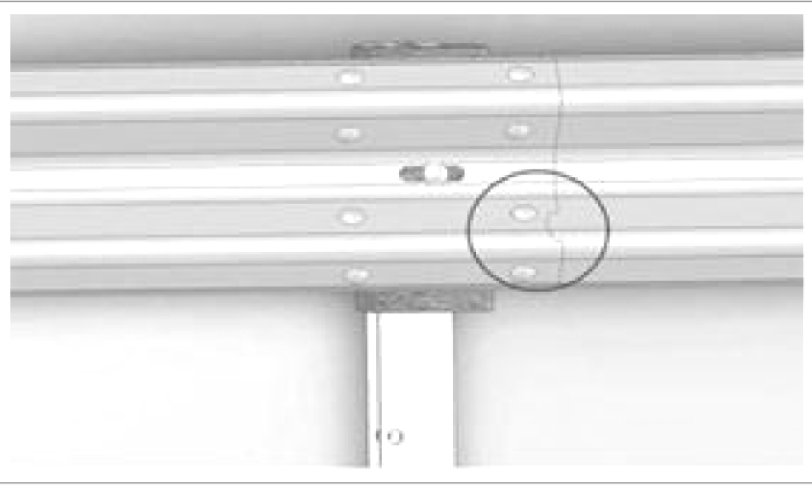
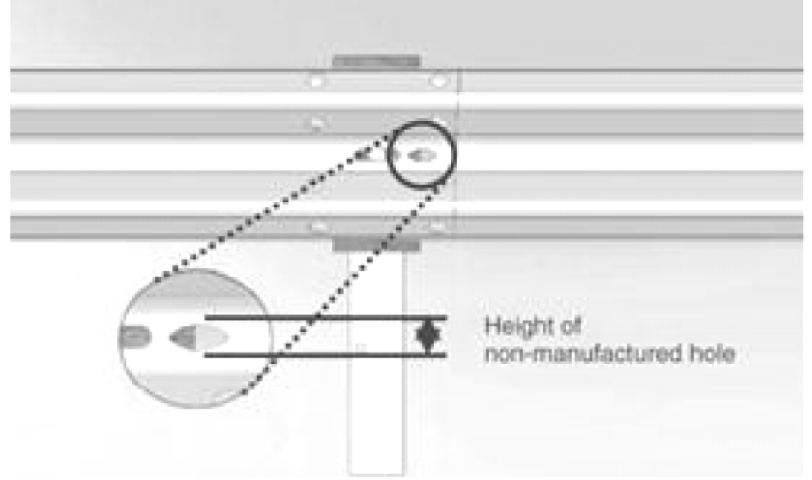
NOTES:

- THESE ARE GUIDELINES FOR THE EVALUATION OF EXISTING GUARDRAIL. THESE ARE GUIDELINES ONLY AND THE CONTRACTOR SHALL REPLACE GUARDRAIL AS DIRECTED BY THE ENGINEER.
- GUIDELINES ARE FROM THE NATIONAL HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 656, "CRITERIA FOR RESTORATION OF LONGITUDINAL BARRIERS", COPYRIGHT 2010.
- WHEN GUARDRAIL IS TO BE REMOVED AND RESET, PANELS WITH A RAIL CROSS SECTION HEIGHT OF 15 INCHES OR GREATER SHALL BE REPLACED



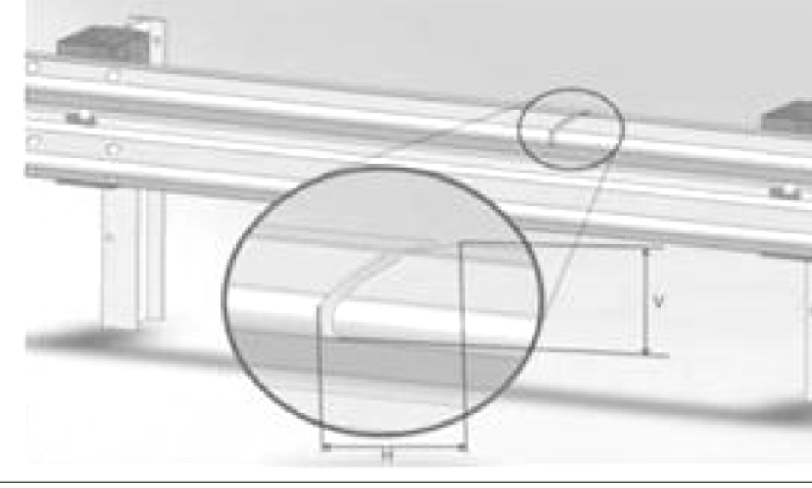
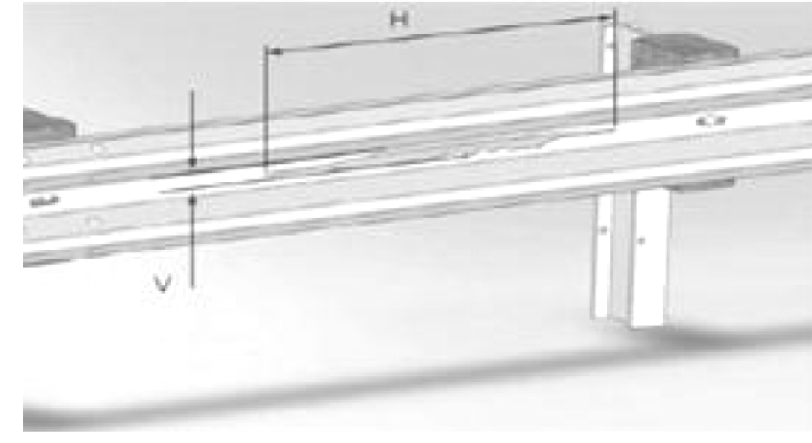
PROJECT NAME: HARDWICK  
PROJECT NUMBER: STP PC23(I)


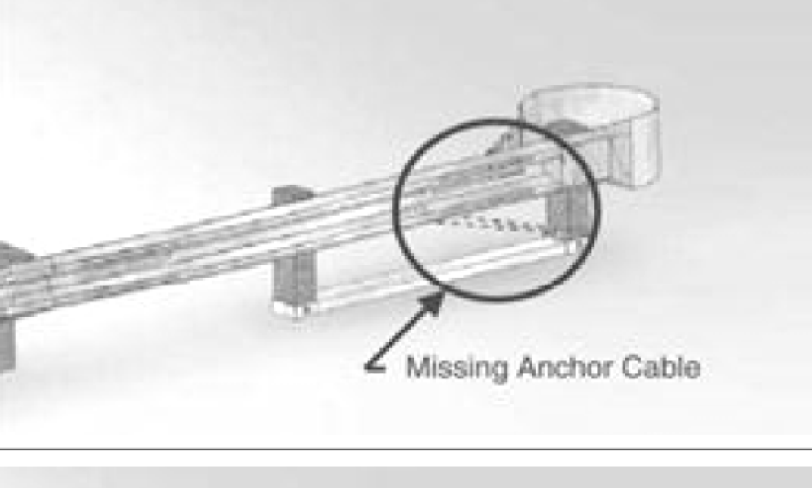
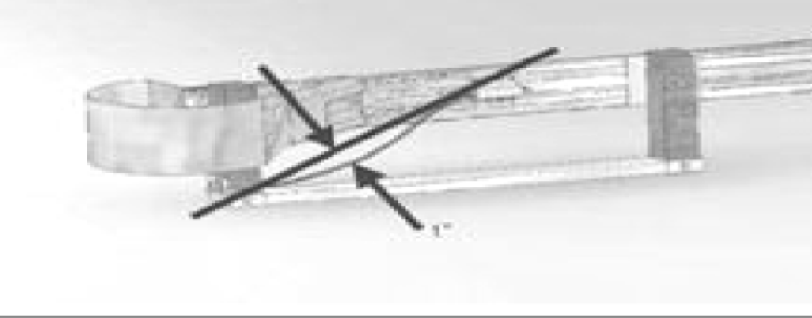
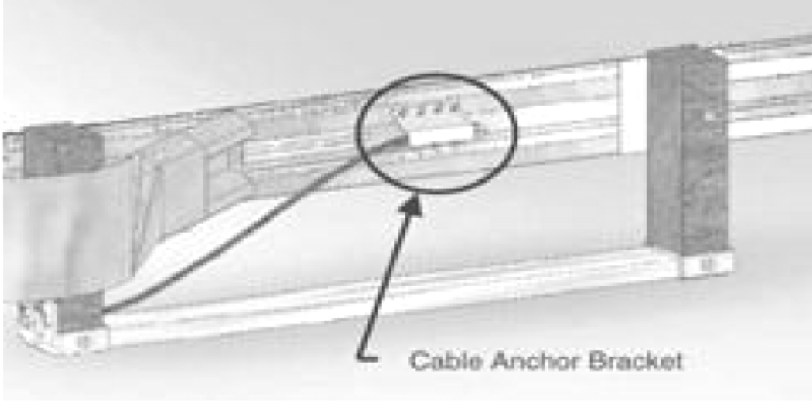
FILE NAME: z19v425det.dgn PLOT DATE: 7/28/2021  
PROJECT LEADER: C. LATHROP DRAWN BY: O. DALMER  
DESIGNED BY: S. SOLLA CHECKED BY: C. LATHROP  
GUARDRAIL REPLACEMENT GUIDELINES SHEET 1 SHEET 20 OF 78

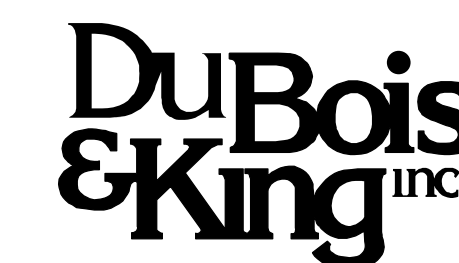
DAMAGE TYPE	REPAIR THRESHOLD	RELATIVE PRIORITY	MEASUREMENT
MISSING/BROKEN POSTS	1 OR MORE POSTS <ul style="list-style-type: none"> <li>MISSING</li> <li>CRACKED ACROSS THE GRAIN</li> <li>BROKEN</li> <li>ROTTED</li> <li>WITH METAL TEARS</li> </ul>	HIGH	
MISSING BLOCKOUT	ANY BLOCKOUTS <ul style="list-style-type: none"> <li>MISSING</li> <li>CRACKED ACROSS THE GRAIN</li> <li>CRACKED FROM TOP OR BOTTOM OF BLOCKOUT THROUGH POST BOLT HOLE</li> <li>ROTTED</li> </ul>	MEDIUM	
TWISTED BLOCKOUTS	ANY MISALIGNED BLOCKOUTS, TOP EDGE OF BLOCK 6 IN. OR MORE FROM BOTTOM EDGE  NOTE: REPAIRS OF TWISTED BLOCKOUT ARE RELATIVELY QUICK AND INEXPENSIVE	LOW	
DAMAGE AT A RAIL SPLICE	MORE THAN 1 SPLICE BOLT: <ul style="list-style-type: none"> <li>MISSING</li> <li>DAMAGED</li> <li>VISIBLY MISSING ANY UNDERLYING RAIL</li> <li>TORN THROUGH RAIL</li> </ul>	HIGH	
	1 SPLICE BOLT: <ul style="list-style-type: none"> <li>MISSING</li> <li>DAMAGED</li> <li>VISIBLY MISSING ANY UNDERLYING RAIL</li> <li>TORN THROUGH RAIL</li> </ul>	MEDIUM	
NON-MANUFACTURED HOLE  (SUCH AS CRASH-INDUCED HOLES, LUG-NUT DAMAGE, OR HOLES RUSTED-THROUGH THE RAIL)	<ul style="list-style-type: none"> <li>MORE THAN 2 HOLES LESS THAN 1IN. HEIGHT IN A 12.5-FT LENGTH OF RAIL</li> <li>ANY HOLES GREATER THAN 1IN. IN HEIGHT</li> <li>ANY HOLE WHICH INTERSECTS EITHER THE TOP OR BOTTOM EDGE OF THE RAIL</li> </ul>	HIGH	
	1- 2 HOLES LESS THAN 1IN. IN HEIGHT IN A 12.5-FT LENGTH OF RAIL	MEDIUM	

NOTES:

- THESE ARE GUIDELINES FOR THE EVALUATION OF EXISTING GUARDRAIL. THESE ARE GUIDELINES ONLY AND THE CONTRACTOR SHALL REPLACE GUARDRAIL AS DIRECTED BY THE ENGINEER.
- GUIDELINES ARE FROM THE NATIONAL HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 656, "CRITERIA FOR RESTORATION OF LONGITUDINAL BARRIERS", COPYRIGHT 2010.

DAMAGE TYPE	REPAIR THRESHOLD	RELATIVE PRIORITY	MEASUREMENT
VERTICAL TEAR	ANY LENGTH VERTICAL (TRANSVERSE) TEAR	HIGH	
HORIZONTAL TEAR	HORIZONTAL (LONGITUDINAL) GREATER THAN 12 IN. LONG AND GREATER THAN 0.5 IN. WIDE  NOTE: FOR HORIZONTAL TEARS LESS THAN 12 IN. IN LENGTH OR LESS THAN 0.5 IN. IN HEIGHT, USE THE NON-MANUFACTURED HOLES GUIDELINES	MEDIUM	

DAMAGE	REPAIR THRESHOLD	RELATIVE PRIORITY	MEASUREMENT
DAMAGED END POST	NOT FUNCTIONAL (SHEARED, ROTTED CRACKED ACROSS THE GRAIN)	HIGH	
ANCHOR CABLE	MISSING	HIGH	
ANCHOR CABLE	LOOSE - MORE THAN 1IN. OF MOVEMENT WHEN PUSHED DOWN BY HAND	MEDIUM	
CABLE ANCHOR BRACKET	LOOSE OR NOT FIRMLY SEATED IN RAIL	MEDIUM	



PROJECT NAME: HARDWICK  
PROJECT NUMBER: STP PC23(I)

FILE NAME: z19v425det.dgn PLOT DATE: 7/28/2021  
PROJECT LEADER: C. LATHROP DRAWN BY: O. DALMER  
DESIGNED BY: S. SOLLA CHECKED BY: C. LATHROP  
GUARDRAIL REPLACEMENT GUIDELINES SHEET 2SHEET 21 OF 78

**HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES**

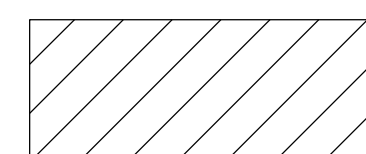
STATION	POSITION	TYPE	QUANTITY (SY)
VT 14			
52+28.	RT	GRAVEL	18.5
54+22.	LT	GRAVEL	11.3
54+72.	RT	GRAVEL	109.3
59+32.	RT	PAVED	10.1
61+84	LT	PAVED	11.1
66+95.	LT	GRAVEL	5.2
67+38.	LT	GRAVEL	11.0
68+75.	LT	PAVED	7.6
69+82.	LT	GRAVEL	44.1
70+36.	RT	PAVED	10.0
71+50.	LT	GRAVEL	4.2
71+75.	LT	GRAVEL	4.5
72+98.	LT	PAVED	5.7
72+29.	LT	GRAVEL	7.0
77+30.	RT	PAVED	13.9
VT 14 SUBTOTAL			273.5

STATION	POSITION	TYPE	QUANTITY (SY)
VT 15			
117+85.	LT	PAVED	24.5
120+71.	LT	PAVED	11.1
123+75.	RT	GRAVEL	19.8
125+25.	RT	GRAVEL	17.4
127+00.	RT	GRAVEL	51.5
127+22.	LT	PAVED	17.1
129+31.	LT	PAVED	17.9
129+24.	RT	GRAVEL	88.7
130+62.	LT	GRAVEL	56.0
133+30.	LT	GRAVEL	99.9
135+24.	RT	PAVED	16.5
136+07.	LT	GRAVEL	69.2
137+27.	LT	PAVED	19.4
140+39.	LT	PAVED	29.0
141+82.	RT	GRAVEL	9.3
147+80.	RT	GRAVEL	18.3
153+00.	LT	GRAVEL	4.2
155+05.	RT	PAVED	282.1
155+03.	LT	PAVED	49.7
155+91.	LT	GRAVEL	13.8
156+65.	LT	PAVED	10.7
159+18.	RT	PAVED	93.7
167+30.	LT	GRAVEL	30.6
168+56.	LT	GRAVEL	37.9
174+71.	LT	PAVED	105.1
178+13.	LT	PAVED	12.2
181+10.	LT	PAVED	52.0
184+03.	LT	PAVED	42.2
185+31.	LT	PAVED	63.9
185+70.	RT	PAVED	14.3
187+17.	RT	PAVED	14.6
187+48.	RT	PAVED	3.7
187+75.	RT	PAVED	5.3
187+90.	LT	PAVED	71.5
VT 15 SUBTOTAL			1473.1
PROJECT SUBTOTAL			1746.5
ROUNDING			23.5
TOTAL			1770.0

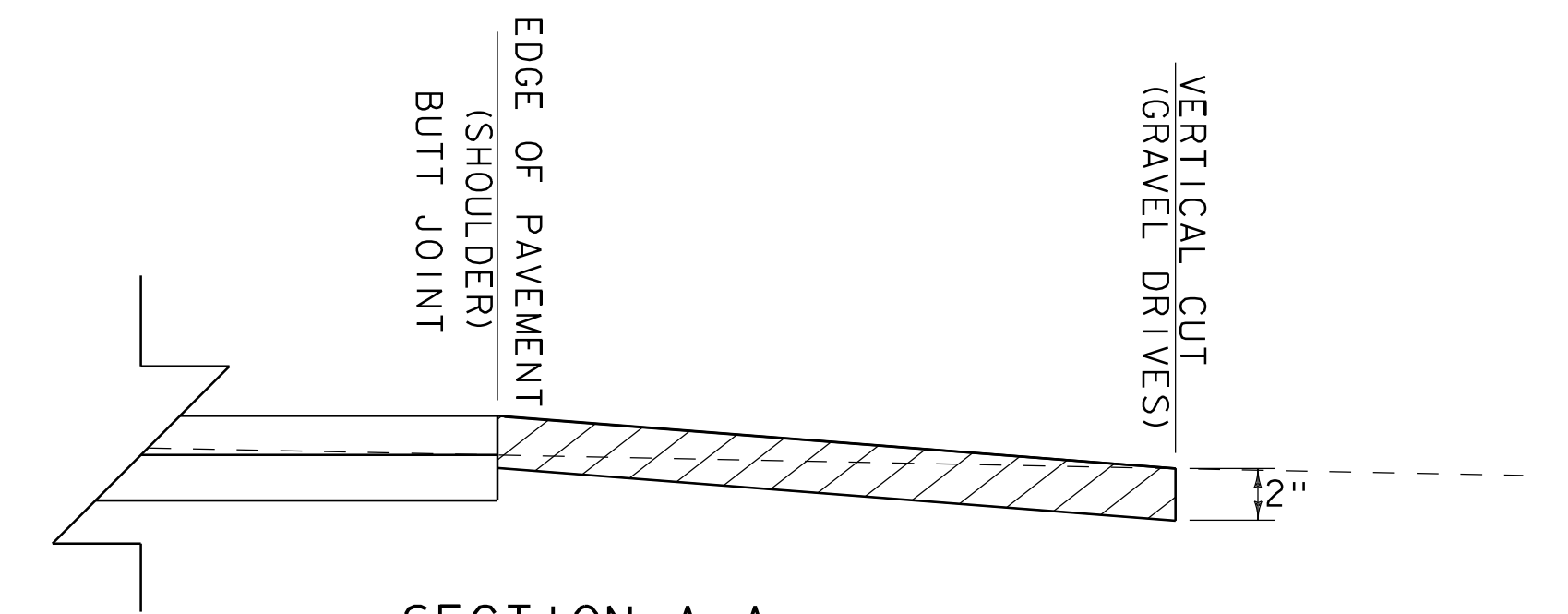
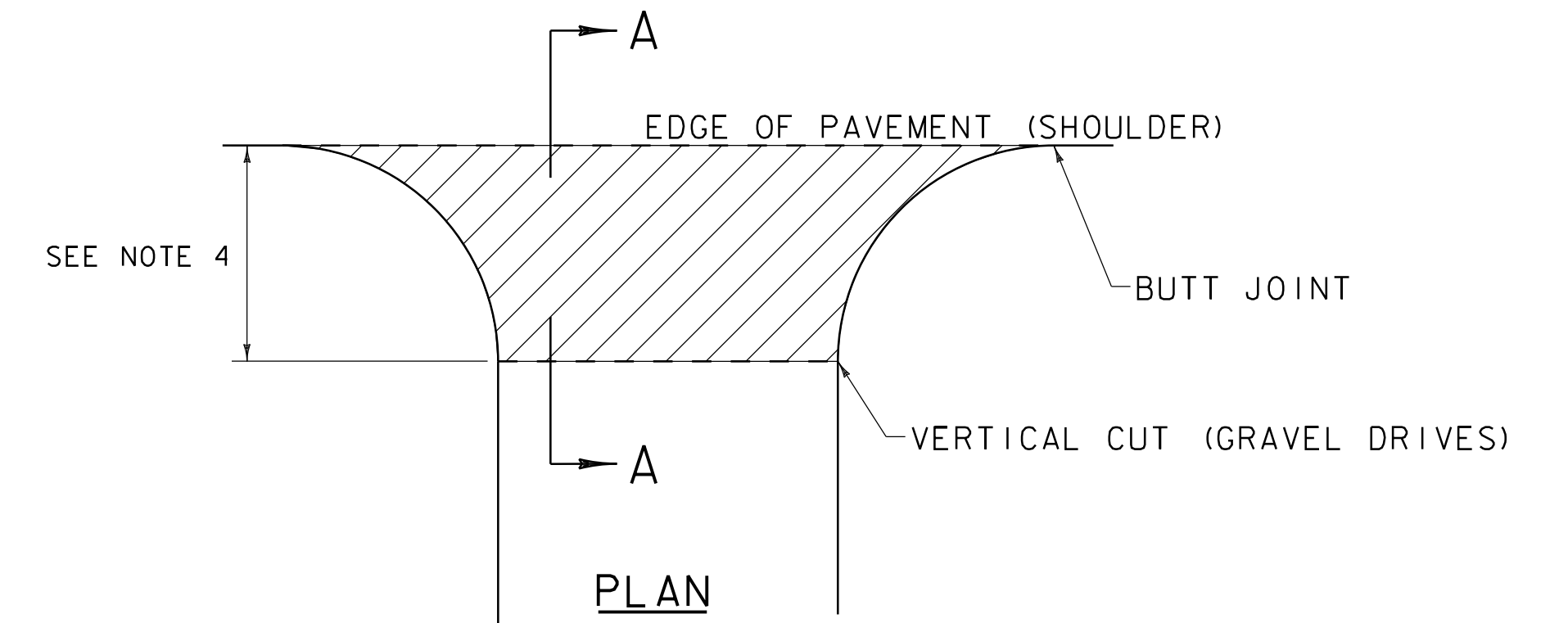
**NOTES:**

- PAVING SHALL BE AT LEAST TWO INCHES THICK.
- THE COST OF PLACING SUBBASE MATERIAL, CLEANING EXISTING PAVED SURFACES, INCLUDING POWER EQUIPMENT, AND FOR FILLING JOINTS, CRACKS AND HOLES WILL NOT BE PAID DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 406.38 "HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES."
- EXCAVATION OR FILL NEEDED TO ACHIEVE PROPER DRIVE SLOPES WILL NOT BE PAID DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 406.38 "HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES."
- FIELD DRIVES 2'-0"; RESIDENTIAL AND COMMERCIAL DRIVES 4'-0"; HAVE BEEN ESTIMATED, FINAL APPROACH LIMITS SHALL BE AS DIRECTED BY THE ENGINEER.
- COARSE-MILLING FOR DRIVES WILL MEET THE REQUIREMENTS OF SECTION 210 AS APPLICABLE. PAYMENT FOR COARSE-MILLED AREAS REQUIRED FOR DRIVES WILL BE CONSIDERED INCIDENTAL TO ITEM 406.38 "HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES."

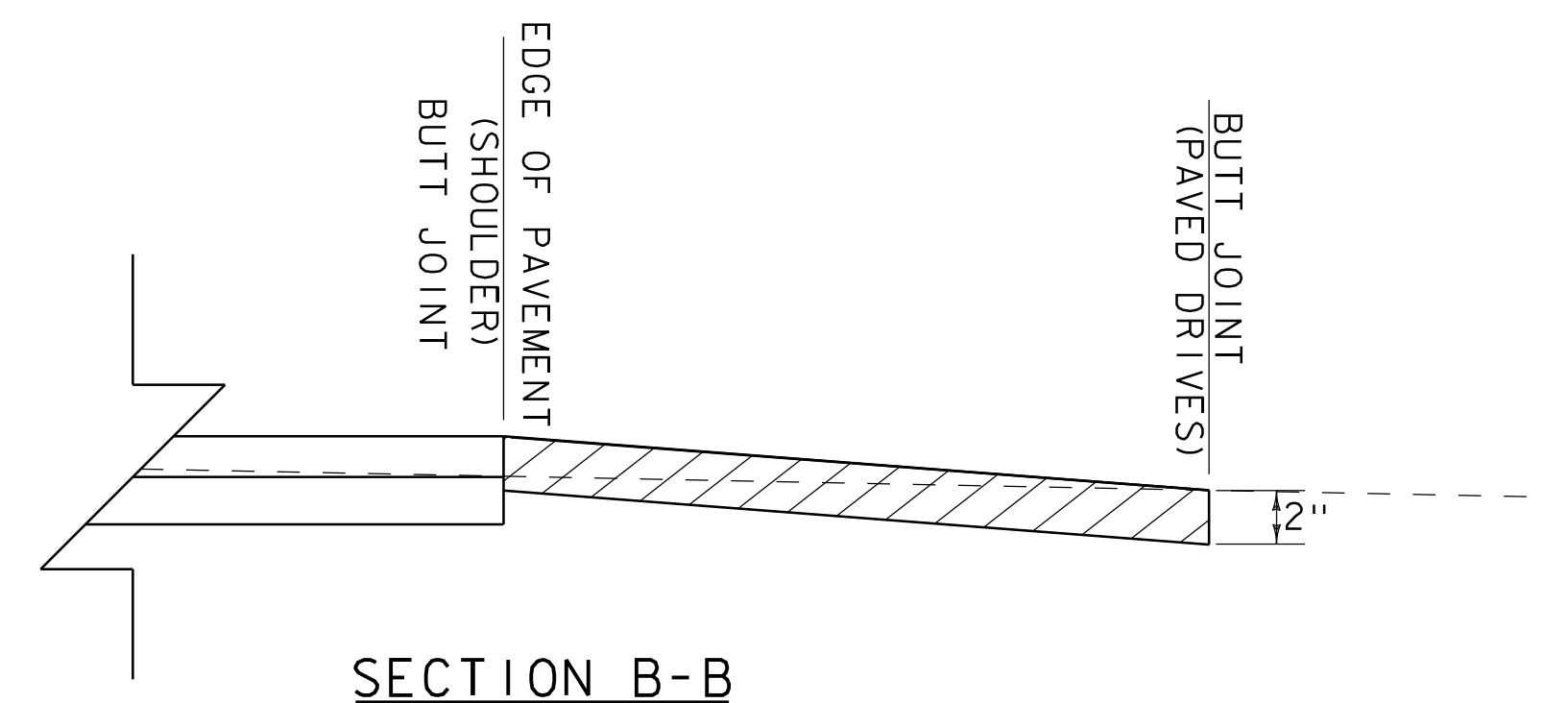
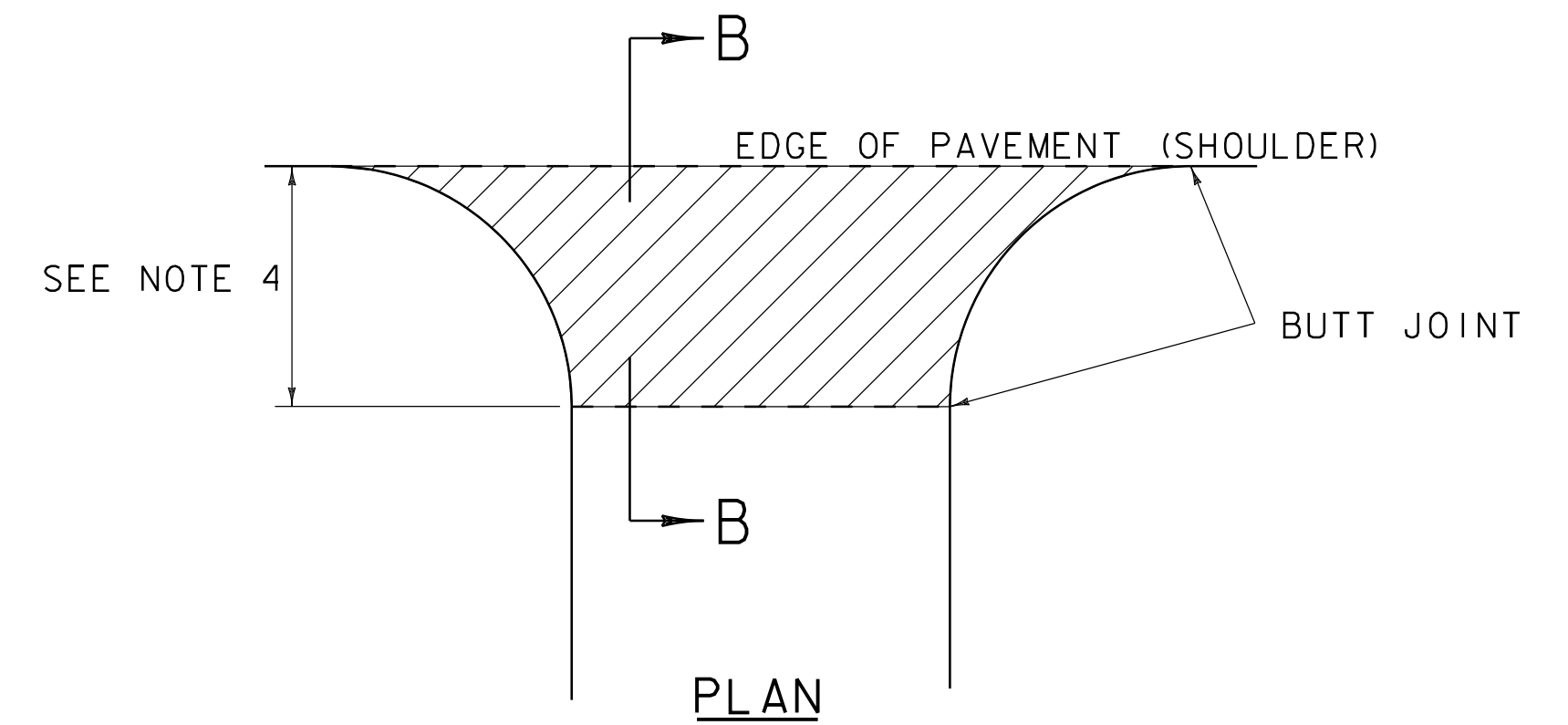
**LEGEND**



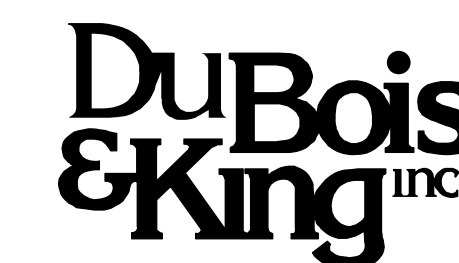
ITEM 406.38 "HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVE"



**HANDWORK DETAILS FOR DRIVES - GRAVEL DRIVES**



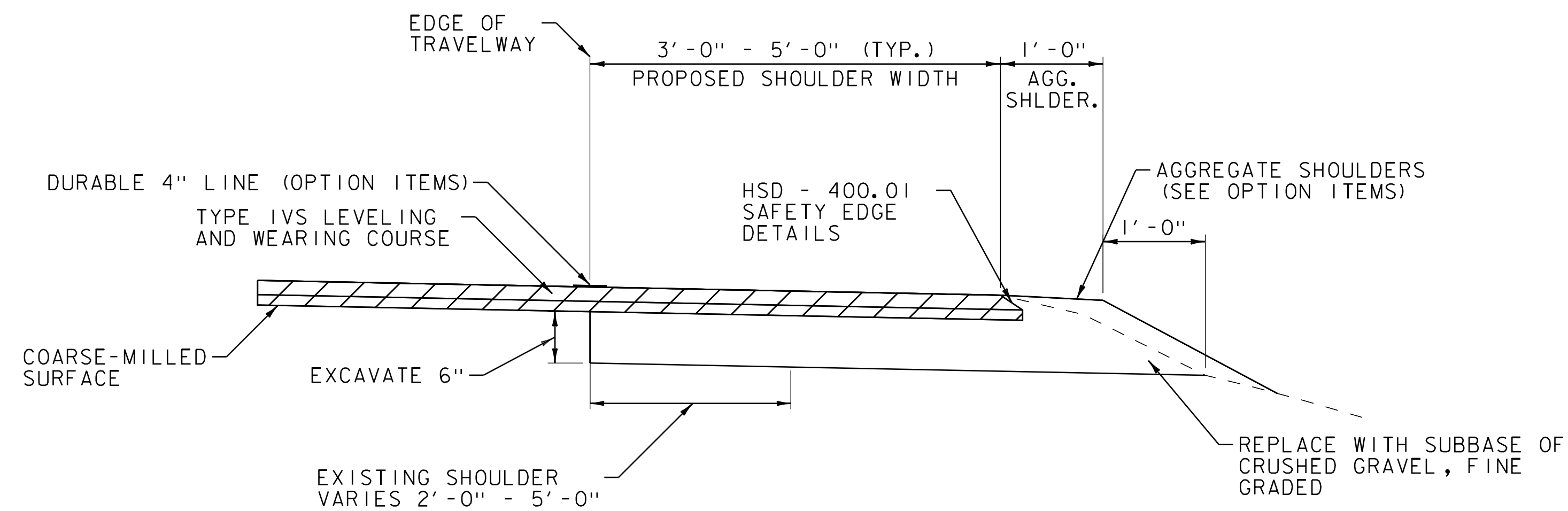
**HANDWORK DETAILS FOR DRIVES - PAVED DRIVES**



PROJECT NAME:	HARDWICK
PROJECT NUMBER:	STP PC23(I)
FILE NAME:	z19v425det.dgn
PROJECT LEADER:	C. LATHROP
DESIGNED BY:	S. SOLLA
HANDWORK DETAILS FOR DRIVES SHEET	
PLOT DATE:	7/28/2021
DRAWN BY:	O. DALMER
CHECKED BY:	C. LATHROP
SHEET	22 OF 78

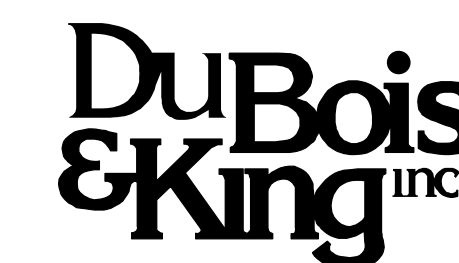
**UNSUITABLE SHOULDER RECONSTRUCTION AREAS**

STATION RANGE			POS.
129+50	-	130+75	RT
135+00	-	137+50	RT
159+50	-	174+50	LT
188+75	-	193+50	LT



**NOTES:**

PRIOR TO PAVING, ANY EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE ENGINEER SHALL BE EXCAVATED TO A DEPTH OF SIX INCHES. EXCAVATION SHALL BE PAID FOR USING THE APPROPRIATE RENTAL ITEMS. THE METHOD OF REMOVAL AND THE USE OF RENTAL ITEMS SHALL BE APPROVED BY THE ENGINEER PRIOR TO ANY WORK BEING DONE. MATERIAL REMOVED SHALL BE REPLACED WITH ITEM 301.28 "SUBBASE OF CRUSHED GRAVEL, FINE GRADED." EXCAVATED MATERIAL SHALL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM THE PROJECT AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE COMPLETED PRIOR TO PLACEMENT OF THE WEARING COURSE. ANY SOIL SPREAD ON SIDE SLOPE SHALL HAVE TURF ESTABLISHMENT AS DIRECTED BY THE ENGINEER. THE FOLLOWING ITEMS WERE ESTIMATED FOR TURF ESTABLISHMENT: 651.15 "SEED," 651.18 "FERTILIZER," 651.20 "AGRICULTURAL LIMESTONE" AND 653.10 "HAY MULCH.". AN ESTIMATED QUANTITY OF ITEM 613.10 HAS BEEN INCLUDED TO STABILIZE ANY SLOPES THAT ARE STEEPEND TO A SLOPE GREATER THAN 1:1.5 AS A RESULT OF THIS WORK.



PROJECT NAME:	HARDWICK	PLOT DATE:	7/28/2021
PROJECT NUMBER:	STP PC23(I)	DRAWN BY:	T. MATTHEWS
FILE NAME:	z19v425det.dgn	DESIGNED BY:	S. SOLLA
PROJECT LEADER:	C. LATHROP	UNSUITABLE SHOULDER DETAIL SHEET	CHECKED BY: C. LATHROP
			SHEET 23 OF 78

VAOT LOW GROW/FINE FESCUE MIX						
LBS/AC						
WEIGHT	BROADCAST	HYDROSEED	NAME	LATIN NAME	GERM	PURITY
38%	57	95	CREeping RED FESCUE	FESTUCA RUBRA VAR. RUBRA	90%	98%
29%	43.5	72.5	HARD FESCUE	FESTUCA LONGIFOLIA	85%	95%
15%	22.5	37.5	CHEWINGS FESCUE	FESTUCA RUBRA VAR. COMMUTATA	87%	95%
15%	22.5	37.5	ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	90%	95%
3%	4.5	7.5	INERTS			
100%	150	250				

VAOT RURAL AREA MIX						
LBS/AC						
WEIGHT	BROADCAST	HYDROSEED	NAME	LATIN NAME	GERM	PURITY
37.5%	22.5	45	CREeping RED FESCUE	FESTUCA RUBRA VAR. RUBRA	85%	98%
37.5%	22.5	45	TALL FESCUE	FESTUCA ARUNDINACEA	90%	95%
5.0%	3	6	RED TOP	AGROSTIS GIGANTEA	90%	95%
15.0%	9	18	WHITE FIELD CLOVER	TRIFOLIUM REPENS	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	LOLIUM MULTIFLORUM	85%	95%
100%	60	120				

GENERAL AMENDMENT GUIDANCE		
FERTILIZER	LIME	
10/20/10	AG LIME	PELLITIZED
500 LBS/AC	2 TONS/AC	1 TONS/AC

**CONSTRUCTION GUIDANCE**

1. SEED MIX: THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER ON WHICH SEED MIX TO USE.
2. SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED PROPOSED FOR USE WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED.
7. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES	TURF ESTABLISHMENT
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651J5)	REVISIONS JANUARY 12, 2015 WHF

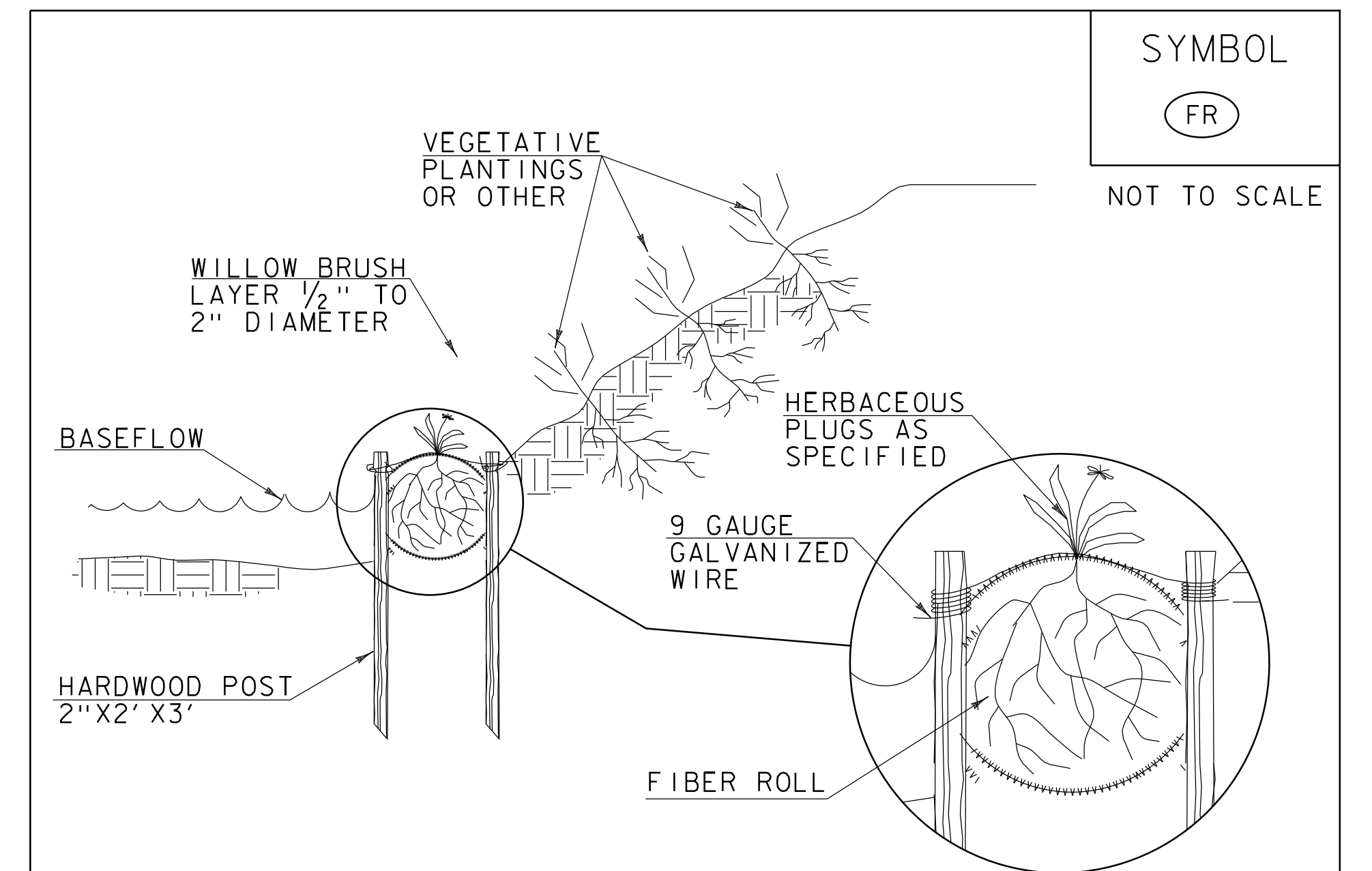
VAOT URBAN LAWN MIX						
LBS/AC						
WEIGHT	BROADCAST	HYDROSEED	NAME	LATIN NAME	GERM	PURITY
42.5%	34	68	CREeping RED FESCUE	FESTUCA RUBRA X RUBRA	85%	98%
20.0%	16	32	PERENNIAL RYE GRASS	LOLIUM PERENNE	90%	95%
32.5%	26	52	KENTUCKY BLUE GRASS	POA PRATENSIS	85%	85%
5.0%	4	8	ANNUAL RYE GRASS	LOLIUM MULTIFLORUM	85%	95%
100%	80	160				

GENERAL AMENDMENT GUIDANCE		
FERTILIZER	LIME	
10/20/10	AG LIME	PELLITIZED
500 LBS/AC	2 TONS/AC	1 TONS/AC

**CONSTRUCTION GUIDANCE**

1. SEED MIX: THE URBAN AREA MIX SHALL NOT BE USED IN WETLANDS OR ANY WATERS OF THE STATE OF VERMONT.
2. SEED MIX: USE ONLY AS INDICATED IN THE PLANS.
3. SEED MIX: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED
7. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES	TURF ESTABLISHMENT
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651J5)	REVISIONS JANUARY 22, 2015 WHF



**CONSTRUCTION SPECIFICATIONS**

1. EXCAVATE A SHALLOW TRENCH SLIGHTLY BELOW BASEFLOW OR A 4" TRENCH ON SLOPE CONTOURS
2. PLACE THE ROLL IN THE TRENCH AND ANCHOR WITH 2"X2" POSTS PLACED ON BOTH SIDES OF THE ROLL AND SPACED LATERALLY ON 2' TO 4' CENTERS. TRIM THE TOP OF THE POSTS EVEN WITH THE EDGE OF THE ROLL, IF NECESSARY.
3. NOTCH THE POSTS AND TIE TOGETHER, ACROSS THE ROLL, WITH 9 GAUGE GALVANIZED WIRE OR 1/8" DIAMETER BRAIDED NYLON ROPE.
4. PLACE SOIL EXCAVATED FROM THE TRENCH BEHIND THE ROLL AND HAND TAMP. PLANT WITH SUITABLE HERBACEOUS OR WOODY VEGETATION AS SPECIFIED ELSEWHERE IN THE CONTRACT DOCUMENTS. VEGETATION SHALL BE PLACED IMMEDIATELY ADJACENT TO THE ROLL TO PROMOTE ROOT GROWTH INTO THE FIBER. HERBACEOUS VEGETATION, IF SPECIFIED, SHALL BE PLANTED INTO THE FIBER ROLL.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FIBER ROLL  
(EROSION LOG)

NOTES:  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

REVISIONS	
MARCH 21, 2008	WHF
JANUARY 13, 2009	WHF

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR EROSION LOG (PAY ITEM 653.60)

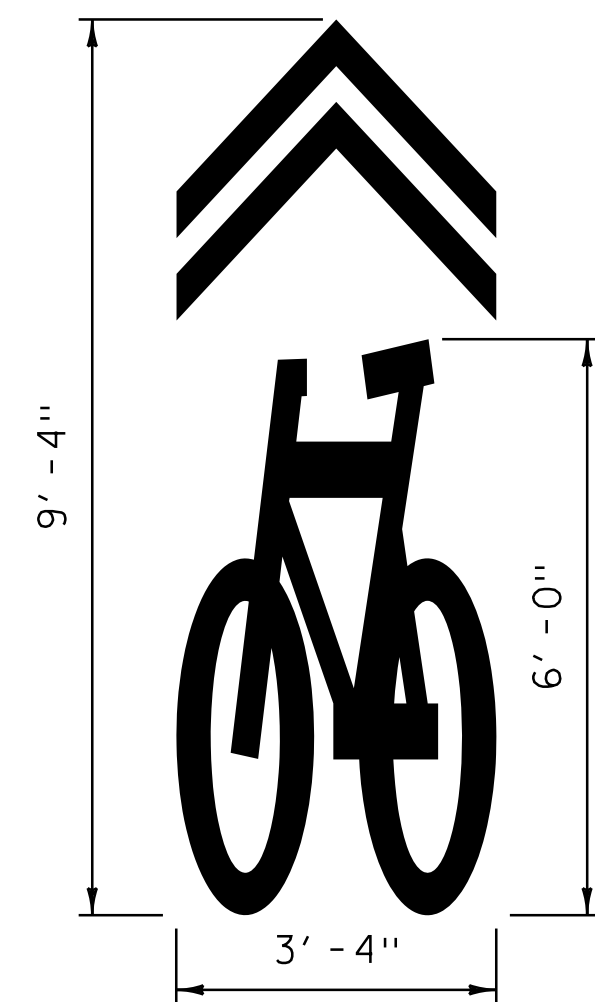


PROJECT NAME: HARDWICK  
PROJECT NUMBER: STP PC23(I)

FILE NAME: z19v425det.dgn  
PROJECT LEADER: C. LATHROP  
DESIGNED BY: S. SOLLIA  
EPSC DETAIL SHEET

PLOT DATE: 7/28/2021  
DRAWN BY: O. DALMER  
CHECKED BY: C. LATHROP  
SHEET 24 OF 78

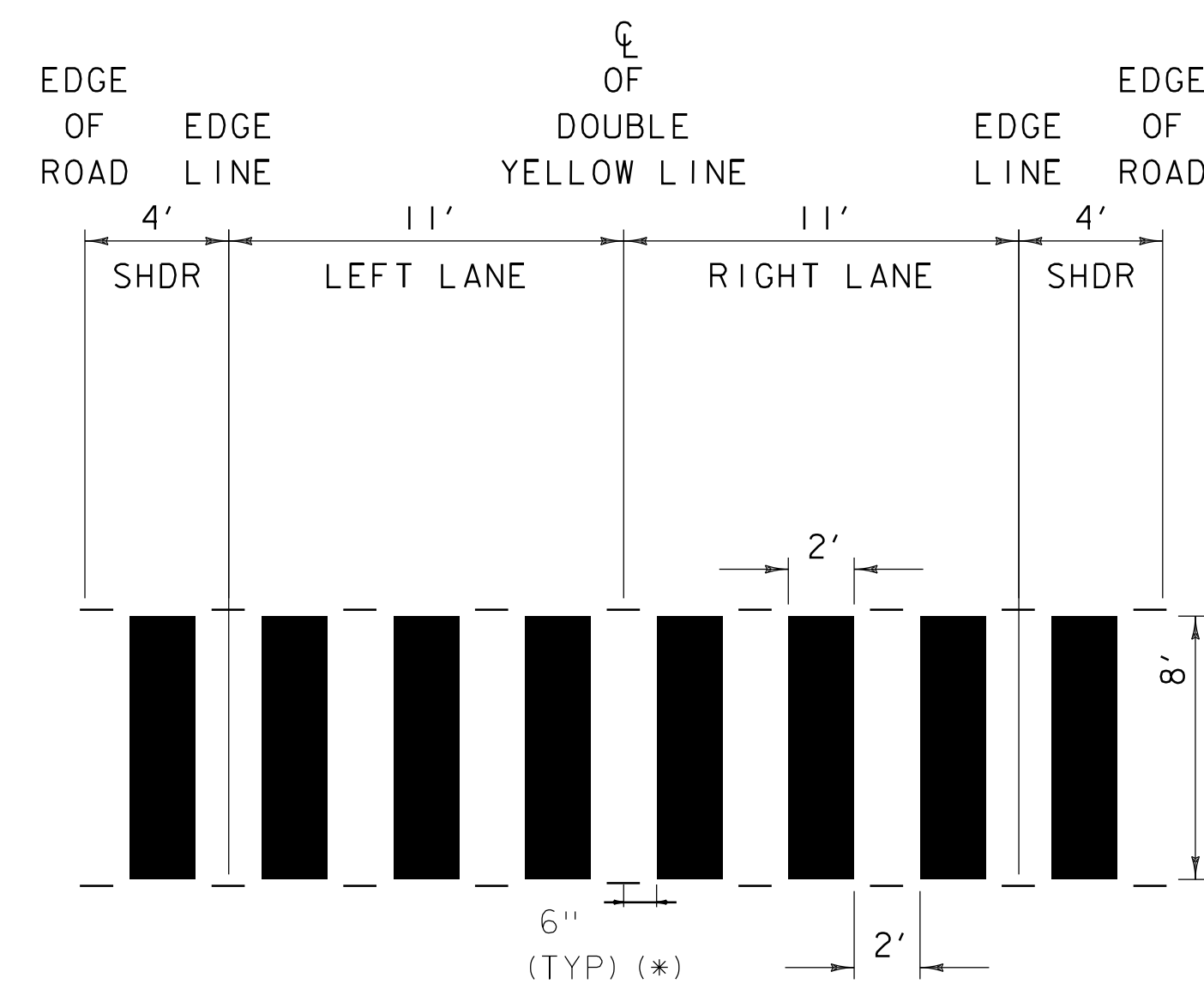




**SHARED LANE PAVEMENT MARKING DETAIL**

**NOTE:**

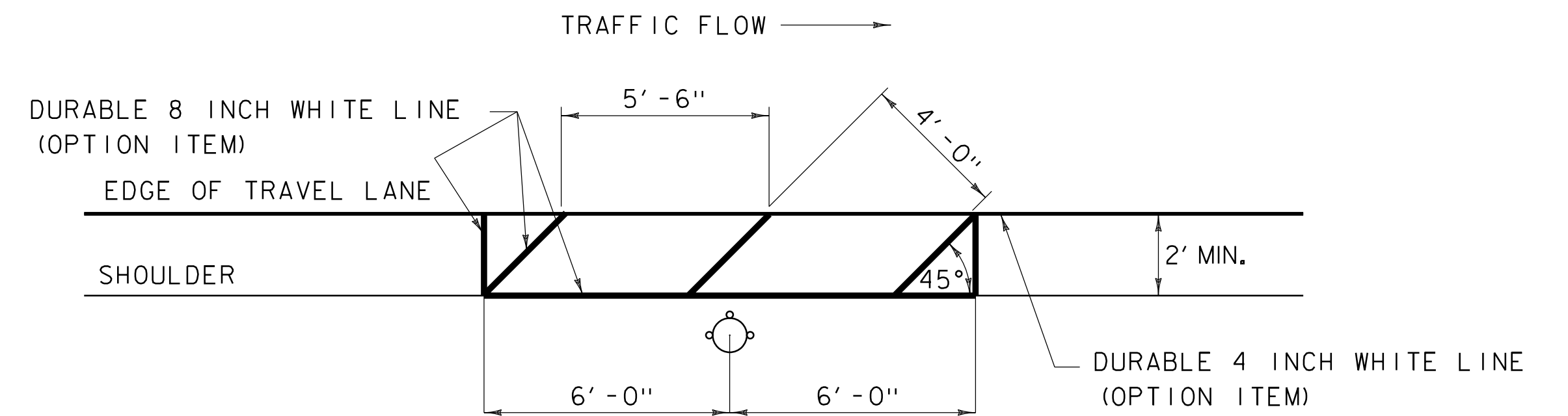
"SHARROW" MARKINGS SHOULD BE PLACED IN THE CENTER OF TRAVEL LANES, AND AT INTERVALS NOT TO EXCEED 250 FEET. "SHARROW" MARKINGS SHOULD BE PLACED AFTER INTERSECTIONS.



**SKewed CROSSWALK PATTERN DETAIL**

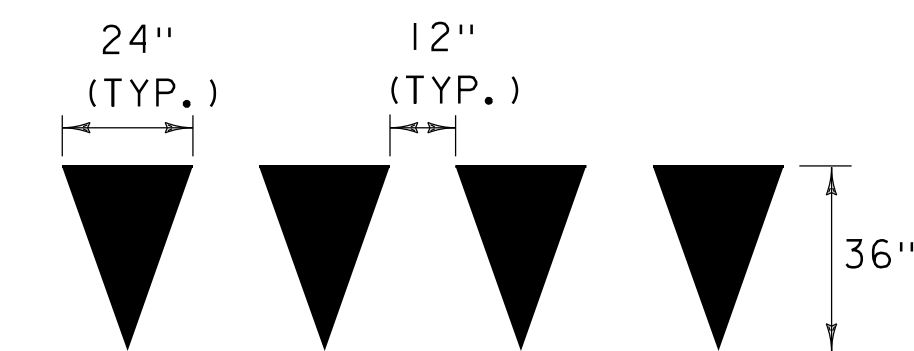
**NOTES:**

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).
5. ALWAYS START MEASURING FROM THE CENTERLINE OR LANE LINE RIGHT, WITH THE FLOW OF TRAFFIC.
6. PAINTED BLOCKS ARE 24 INCHES (TYPICAL).
- (\*) 7. THIS DISTANCE WILL INCREASE TO 12" FOR A 12 FOOT LANE



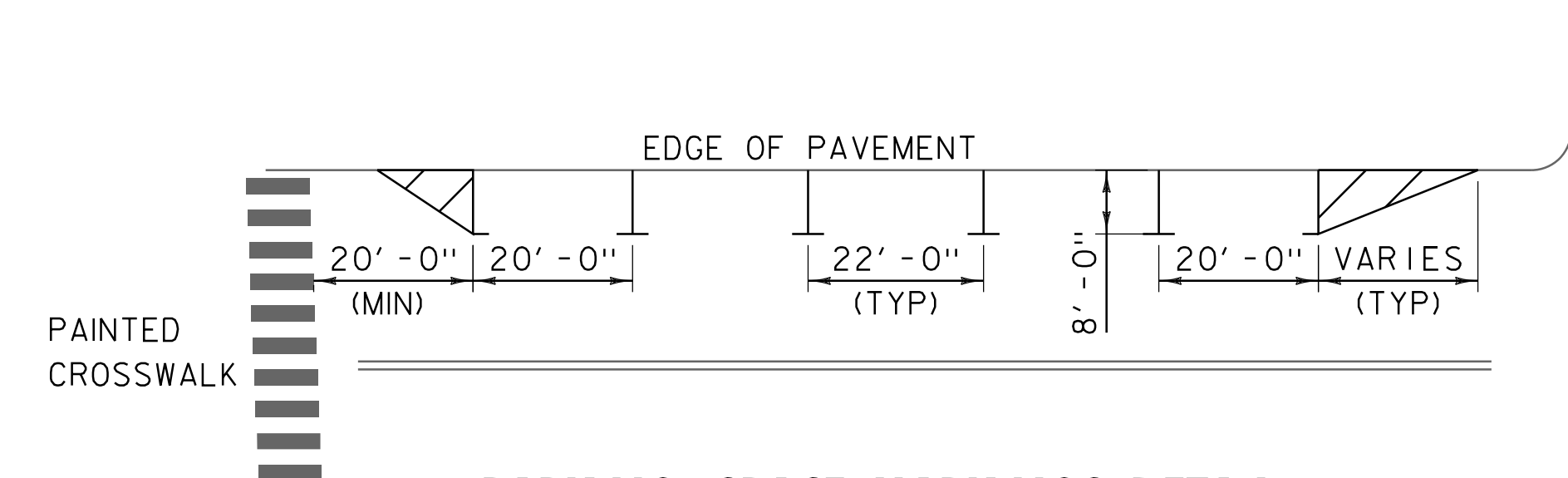
**FIRE HYDRANT AND NO PARKING PAVEMENT MARKING DETAIL**

NOTE: THE CONTRACTOR SHALL ADJUST THE PLACEMENT OF THE FIRE HYDRANT AND NO PARKING PAVEMENT MARKINGS TO MEET THE EXISTING SITE CONSTRAINTS AS DIRECTED BY THE ENGINEER.



**YIELD LINE DETAILS**

TO BE INSTALLED ONLY AT THE DIRECTION OF THE ENGINEER. ONE TRIANGLE TO BE PAID AS ONE SYMBOL.



**PARKING SPACE MARKINGS DETAIL**

**PARKING SPACE MARKINGS NOTES:**

1. PARKING SPOTS SHALL BEGIN/END A MINIMUM OF 20'-0" FROM CROSSWALKS.
2. EACH END SPOT SHALL HAVE A MINIMUM 20'-0" SPACE LENGTH (TYPICAL).
3. EACH INTERMEDIATE SPOT SHALL HAVE A MINIMUM 22'-0" SPACE LENGTH (TYPICAL).
4. PARKING SPACE WIDTHS SHALL BE A MINIMUM 8'-0" (TYPICAL).
5. FOR MORE INFORMATION, SEE PARKING SPACE MARKINGS IN THE MUTCD (SECTION 3B.19).



PROJECT NAME:	HARDWICK	FILE NAME:	z19v425det.dgn	PLOT DATE:	7/28/2021
PROJECT NUMBER:	STP PC23(I)	PROJECT LEADER:	C. LATHROP	DRAWN BY:	O. DALMER
		DESIGNED BY:	S. SOLLA	CHECKED BY:	C. LATHROP
		PAVEMENT MARKING DETAIL SHEET		SHEET	25 OF 78

REHAB DROP INLETS, CATCH BASINS, OR  
MANHOLES, CLASS I, CLASS II, CLASS III  
STA. 52+79 RT (GRATE TYPE D)  
STA. 55+56 RT (GRATE TYPE E)

CHANGING ELEVATION OF SEWER MANHOLES  
STA. 52+97 LT (SMH)  
STA. 54+97 RT (SMH)

ADJUST ELEVATION OF VALVE BOX  
STA. 52+84 LT (WSO)  
STA. 55+19 RT (WSO)  
STA. 55+61 RT (WSO)  
STA. 55+76 RT (WSO)

DURABLE 4 INCH WHITE LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH WHITE LINE, PAINT  
(LINES WILL INCLUDE EDGE LINE BREAK AND RADII AS SHOWN)  
STA. 52+05 - STA. 57+25 (SOLID LT & RT)

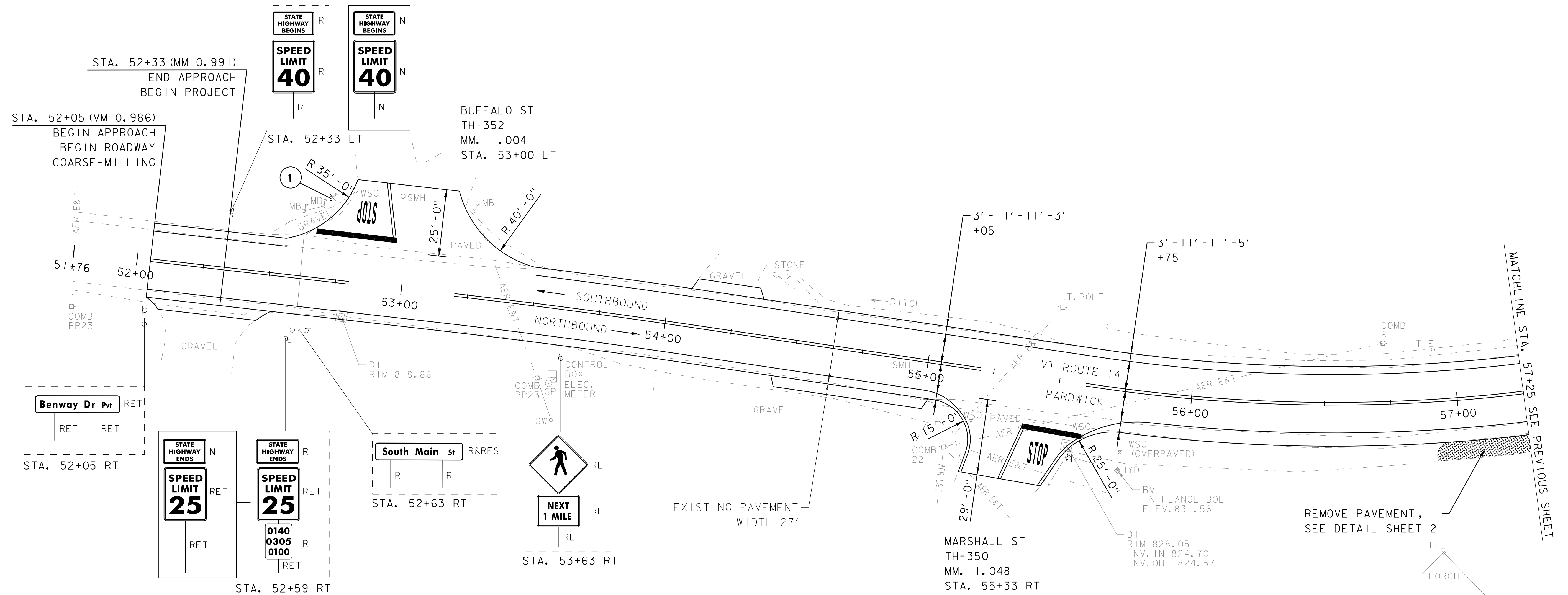
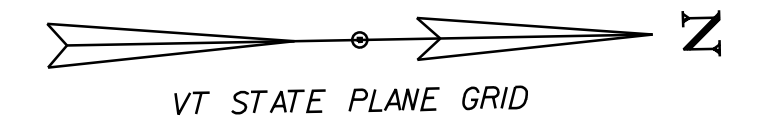
DURABLE 4 INCH YELLOW LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH YELLOW LINE, PAINT  
(LINES WILL INCLUDE CENTERLINE BREAKS AS SHOWN)  
STA. 52+05 - STA. 57+25 (SOLID LT & RT)  
STA. 52+93 LT (CENTERLINE AT TH-352)  
STA. 55+33 RT (CENTERLINE AT TH-350)

DURABLE 24 INCH STOP BAR, (SEE OPTION ITEMS) &  
TEMPORARY 24 INCH STOP BAR, PAINT  
STA. 52+66 - STA. 52+96 LT (30 FT)  
STA. 55+38 - STA. 55+61 RT (23 FT)

DURABLE LETTER OR SYMBOL, (SEE OPTION ITEMS) &  
TEMPORARY LETTER OR SYMBOL, PAINT  
STA. 52+85 LT (STOP)  
STA. 55+44 RT (STOP)

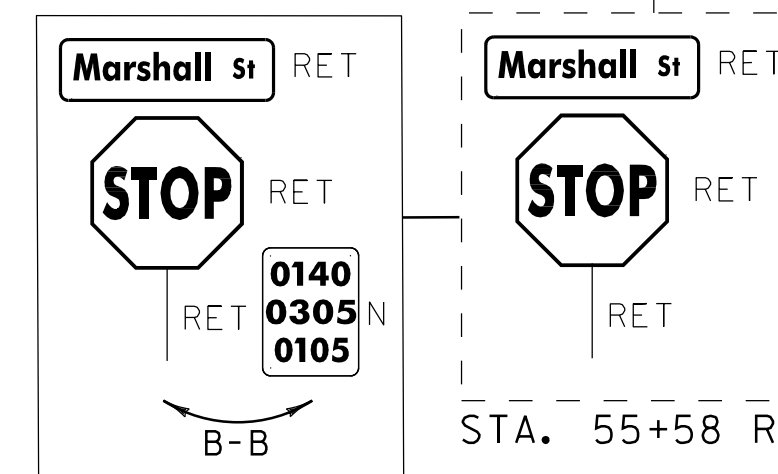
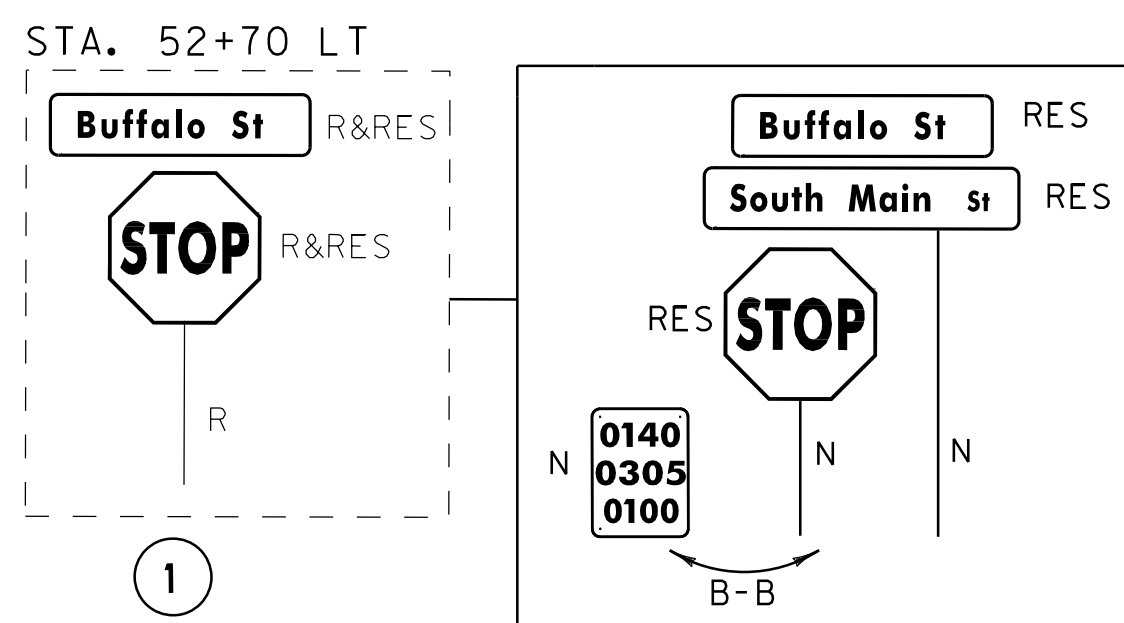
REMOVING SIGNS  
AS SHOWN -7

RESETTING SIGNS  
AS SHOWN -3



**SIGN LEGEND**

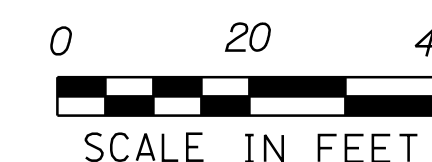
- R = REMOVE
- R&RES = REMOVE AND RESET
- RES = RESET
- RET = RETAIN
- N = NEW
- B-B = BACK TO BACK
- - = EXISTING
- = NEW



PROJECT NAME: HARDWICK  
PROJECT NUMBER: STP PC23(I)

FILE NAME: z19v425bdr.dgn  
PROJECT LEADER: C. LATHROP  
DESIGNED BY: S. SOLLA  
PROJECT LAYOUT SHEET 1

PLOT DATE: 7/28/2021  
DRAWN BY: O. DALMER  
CHECKED BY: C. LATHROP  
SHEET 26 OF 78



REHAB DROP INLETS, CATCH BASINS, OR  
MANHOLES, CLASS I, CLASS II, CLASS III

STA. 57+90 RT (GRATE TYPE E)  
STA. 58+29 LT (GRATE TYPE E)  
STA. 61+19 LT (GRATE TYPE E)  
STA. 61+68 LT (GRATE TYPE E)  
STA. 61+91 RT (GRATE TYPE E)

CHANGING ELEVATION OF SEWER MANHOLES

STA. 57+84 RT (SMH)  
STA. 61+30 RT (SMH)  
STA. 62+99 RT (SMH)

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH

STA. 57+88 - STA. 57+98 RT  
STA. 61+88 - STA. 61+96 RT  
STA. 62+20 - STA. 62+29 RT  
STA. 62+73 - STA. 62+82 RT  
STA. 63+28 - STA. 63+33 RT

DETECTABLE WARNING SURFACE

STA. 57+91 RT (10 SF)  
STA. 61+92 RT (8 SF)  
STA. 62+25 RT (8 SF)  
STA. 62+77 RT (8 SF)  
STA. 63+29 RT (10 SF)

ADJUST ELEVATION OF VALVE BOX

STA. 57+64 RT (WSO)  
STA. 57+65 RT (WSO)  
STA. 58+17 LT (WSO)  
STA. 58+28 LT (WSO)  
STA. 58+95 LT (WSO)  
STA. 61+96 RT (WSO)  
STA. 62+06 LT (WSO)

DURABLE 4 INCH WHITE LINE, (SEE OPTION ITEMS)

& TEMPORARY 4 INCH WHITE LINE, PAINT  
(LINES WILL INCLUDE EDGE LINE BREAK AND RADII AS SHOWN)  
STA. 57+25 - STA. 63+50 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE, (SEE OPTION ITEMS)  
& TEMPORARY 4 INCH YELLOW LINE, PAINT  
(LINES WILL INCLUDE CENTERLINE BREAKS AS SHOWN)  
STA. 57+25 - STA. 63+50 (SOLID LT & RT)  
STA. 57+67 RT (CENTERLINE AT TH-8)

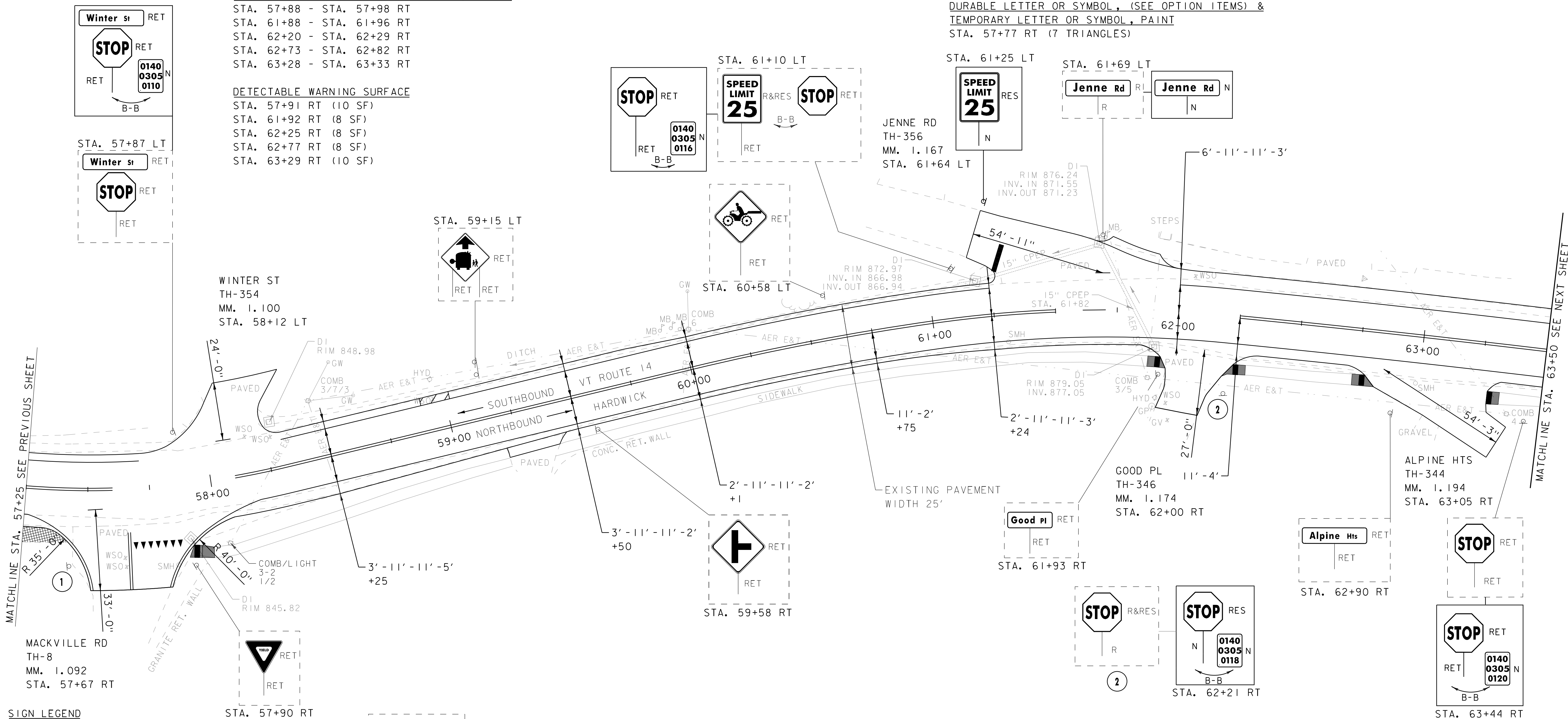
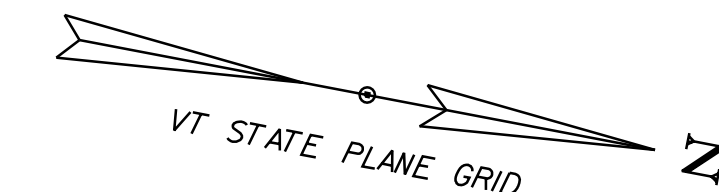
DURABLE 8 INCH WHITE LINE, (SEE OPTION ITEMS) &  
TEMPORARY 8 INCH WHITE LINE, PAINT  
STA. 58+90 - STA. 59+02 (HATCH LT)

DURABLE 24 INCH STOP BAR, (SEE OPTION ITEMS) &  
TEMPORARY 24 INCH STOP BAR, PAINT  
STA. 61+27 - STA. 61+30 LT (11 FT)

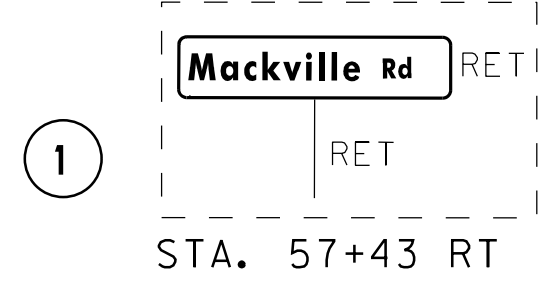
DURABLE LETTER OR SYMBOL, (SEE OPTION ITEMS) &  
TEMPORARY LETTER OR SYMBOL, PAINT  
STA. 57+77 RT (7 TRIANGLES)

REMOVING SIGNS  
AS SHOWN -3

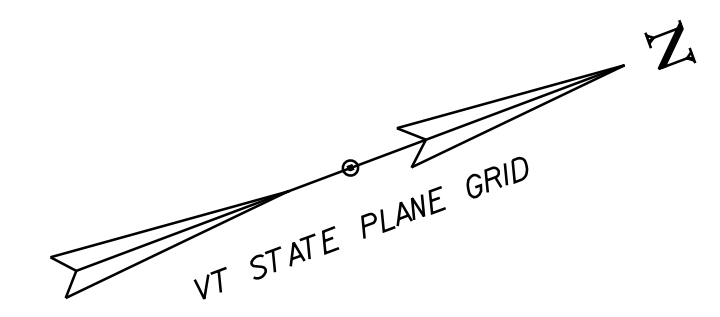
RESETTING SIGNS  
AS SHOWN -2



- SIGN LEGEND**
- R = REMOVE
  - R&RES = REMOVE AND RESET
  - RES = RESET
  - RET = RETAIN
  - N = NEW
  - B-B = BACK TO BACK
  - - = EXISTING
  - = NEW



PROJECT NAME:	HARDWICK	PLOT DATE:	7/28/2021
PROJECT NUMBER:	STP PC23(I)	DRAWN BY:	O. DALMER
FILE NAME:	tz19v425bdr.dgn	DESIGNED BY:	S. SOLLA
PROJECT LAYOUT SHEET 2		CHECKED BY:	C. LATHROP
		SHEET	27 OF 78



CHANGING ELEVATION OF DROP INLETS,  
CATCH BASINS, OR MANHOLES

STA. 67+15 LT (DMH)  
STA. 68+06 LT (DMH)

REHAB DROP INLETS, CATCH BASINS, OR  
MANHOLES, CLASS I, CLASS II, CLASS III  
STA. 67+13 RT (GRATE TYPE C)

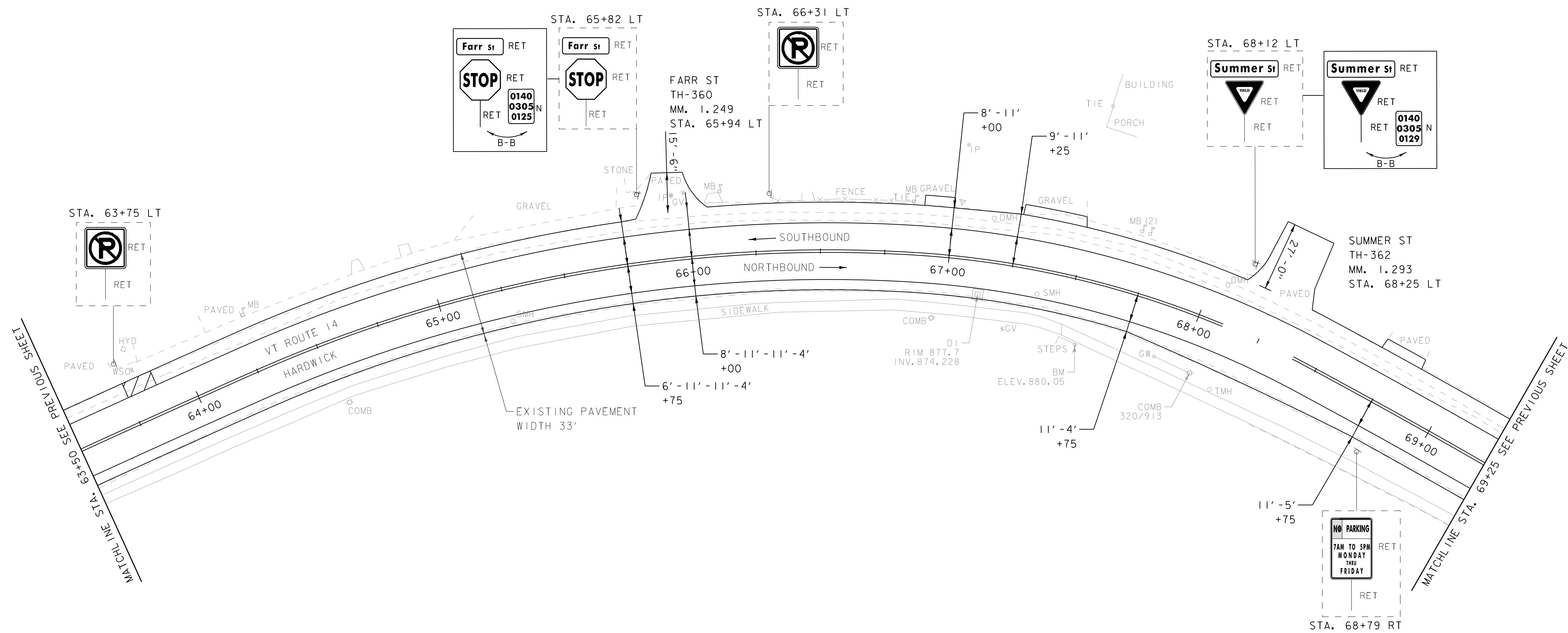
CHANGING ELEVATION OF SEWER MANHOLES  
STA. 65+27 RT (SMH)  
STA. 67+36 RT (SMH)

ADJUST ELEVATION OF VALVE BOX  
STA. 65+99 LT (GV)

DURABLE 4 INCH WHITE LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH WHITE LINE, PAINT  
(LINES WILL INCLUDE EDGE LINE BREAK AND RADII AS SHOWN)  
STA. 63+50 - STA. 69+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH YELLOW LINE, PAINT  
(LINES WILL INCLUDE CENTERLINE BREAKS AS SHOWN)  
STA. 63+50 - STA. 69+25 (SOLID LT & RT)

DURABLE 8 INCH WHITE LINE, (SEE OPTION ITEMS) &  
TEMPORARY 8 INCH WHITE LINE, PAINT  
STA. 63+75 - STA. 63+87 (HATCH LT)



**SIGN LEGEND**

R	= REMOVE
R&RES	= REMOVE AND RESET
RES	= RESET
RET	= RETAIN
N	= NEW
B-B	= BACK TO BACK
- -	= EXISTING
—	= NEW



PROJECT NAME: HARDWICK	PLOT DATE: 7/28/2021
PROJECT NUMBER: STP PC23(I)	DRAWN BY: O. DALMER
FILE NAME: z19v425bdr.dgn	CHECKED BY: C. LATHROP
PROJECT LEADER: C. LATHROP	SHEET 28 OF 78
DESIGNED BY: S. SOLLA	
PROJECT LAYOUT SHEET 3	

CHANGING ELEVATION OF DROP INLETS,  
CATCH BASINS, OR MANHOLES

STA. 70+82 LT (DMH)  
STA. 73+15 LT (DMH)  
STA. 73+21 LT (DMH)

REHAB DROP INLETS, CATCH BASINS, OR  
MANHOLES, CLASS I, CLASS II, CLASS III

STA. 70+20 RT (GRATE TYPE C)  
STA. 70+61 LT (GRATE TYPE C)  
STA. 72+75 RT (GRATE TYPE D)  
STA. 72+83 RT (GRATE TYPE C)  
STA. 73+11 RT (GRATE TYPE C)  
STA. 73+20 RT (GRATE TYPE C)  
STA. 74+17 LT (GRATE TYPE D)  
STA. 74+17 RT (GRATE TYPE D)

CHANGING ELEVATION OF SEWER MANHOLES

STA. 70+78 RT (SMH)  
STA. 72+92 RT (SMH)  
STA. 72+98 RT (SMH)

VERTICAL GRANITE CURB

STA. 73+22 - STA. 73+48 RT  
STA. 73+31 - STA. 73+41 LT

REMOVAL OF EXISTING CURB

STA. 73+22 - STA. 73+48 RT  
STA. 73+31 - STA. 73+41 LT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH

STA. 73+25 - STA. 73+40 RT  
STA. 73+31 - STA. 73+41 LT

DETECTABLE WARNING SURFACE

STA. 73+32 RT (10 SF)  
STA. 73+34 RT (10 SF)

ADJUST ELEVATION OF VALVE BOX

STA. 70+93 LT (GV)  
STA. 72+88 LT (WSO)  
STA. 72+91 LT (WSO)  
STA. 73+29 LT (WSO)  
STA. 73+32 LT (WSO)

DURABLE 4 INCH WHITE LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH WHITE LINE, PAINT  
(LINES WILL INCLUDE EDGE LINE BREAK AND RADIUS AS SHOWN)

STA. 69+25 - STA. 72+85 (SOLID LT&RT)  
STA. 72+85 - STA. 74+75 (SOLID LT)  
STA. 73+09 - STA. 74+75 (PARKING RT INCLUDING HATCH)

DURABLE 4 INCH YELLOW LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH YELLOW LINE, PAINT  
(LINES WILL INCLUDE CENTERLINE BREAKS AS SHOWN)

STA. 69+25 - STA. 74+75 (SOLID LT & RT)  
STA. 72+99 RT (CENTERLINE AT TH-342)

DURABLE 8 INCH WHITE LINE, (SEE OPTION ITEMS) &  
TEMPORARY 8 INCH WHITE LINE, PAINT

STA. 70+37 - STA. 70+49 (HATCH LT)  
STA. 74+60 - STA. 74+72 (HATCH LT)

DURABLE 24 INCH STOP BAR, (SEE OPTION ITEMS) &  
TEMPORARY 24 INCH STOP BAR, PAINT

STA. 72+98 - STA. 73+09 RT (11 FT)

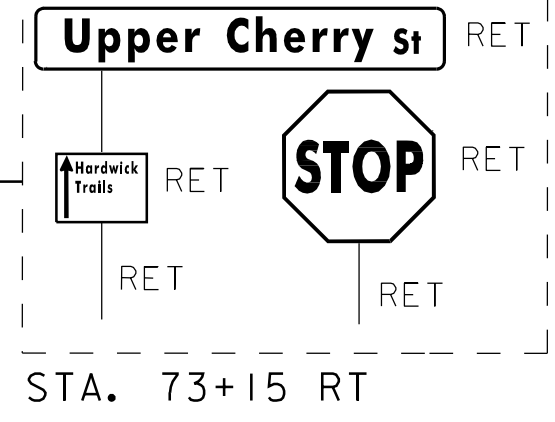
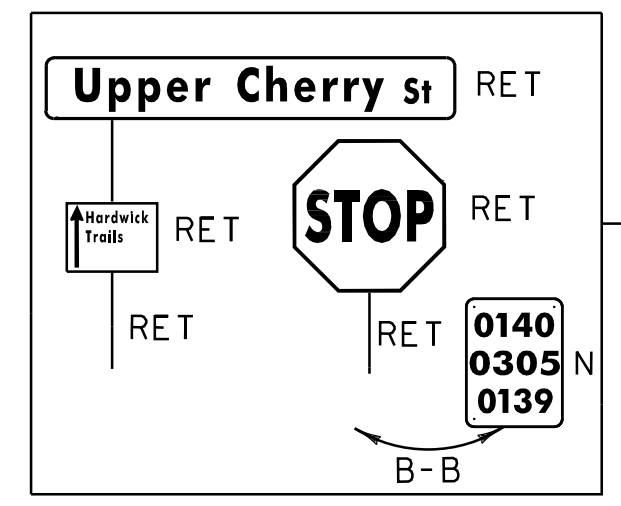
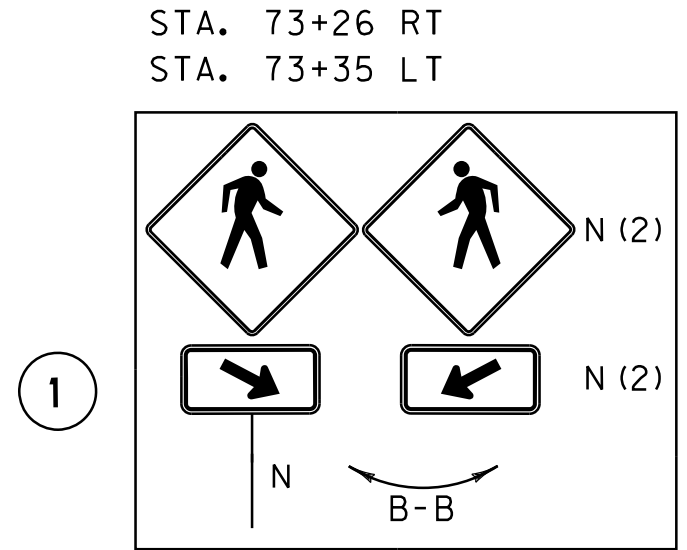
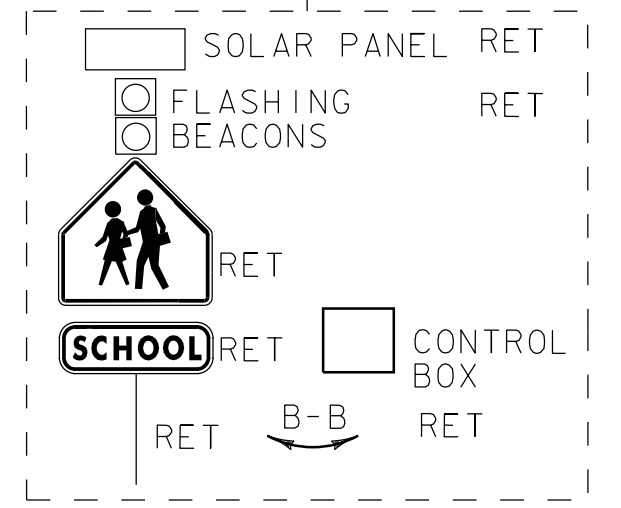
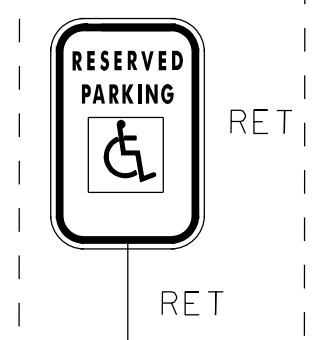
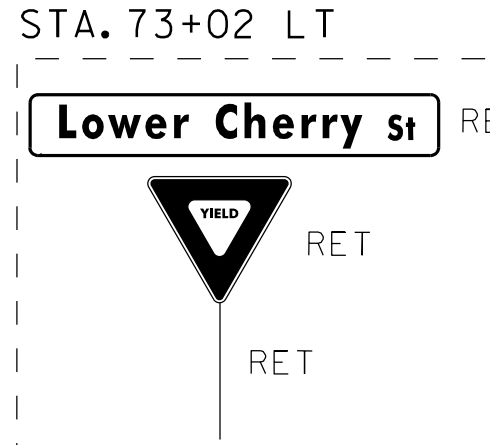
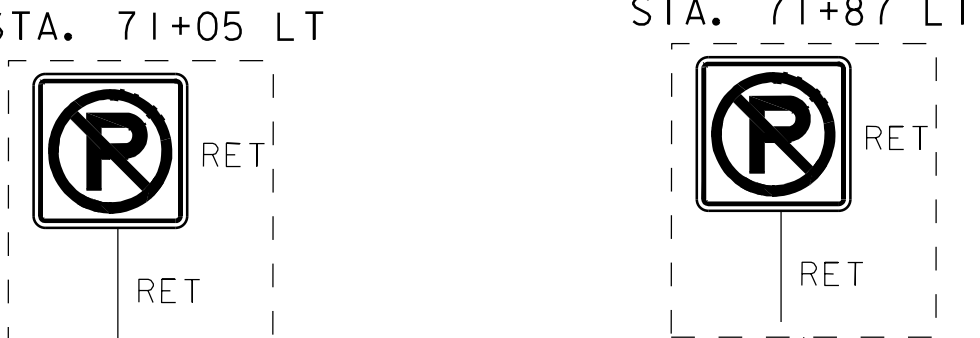
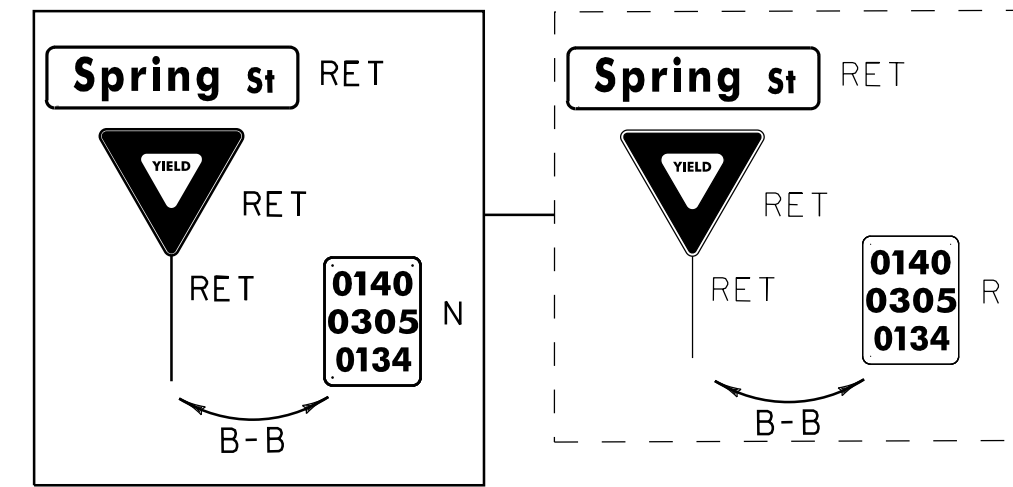
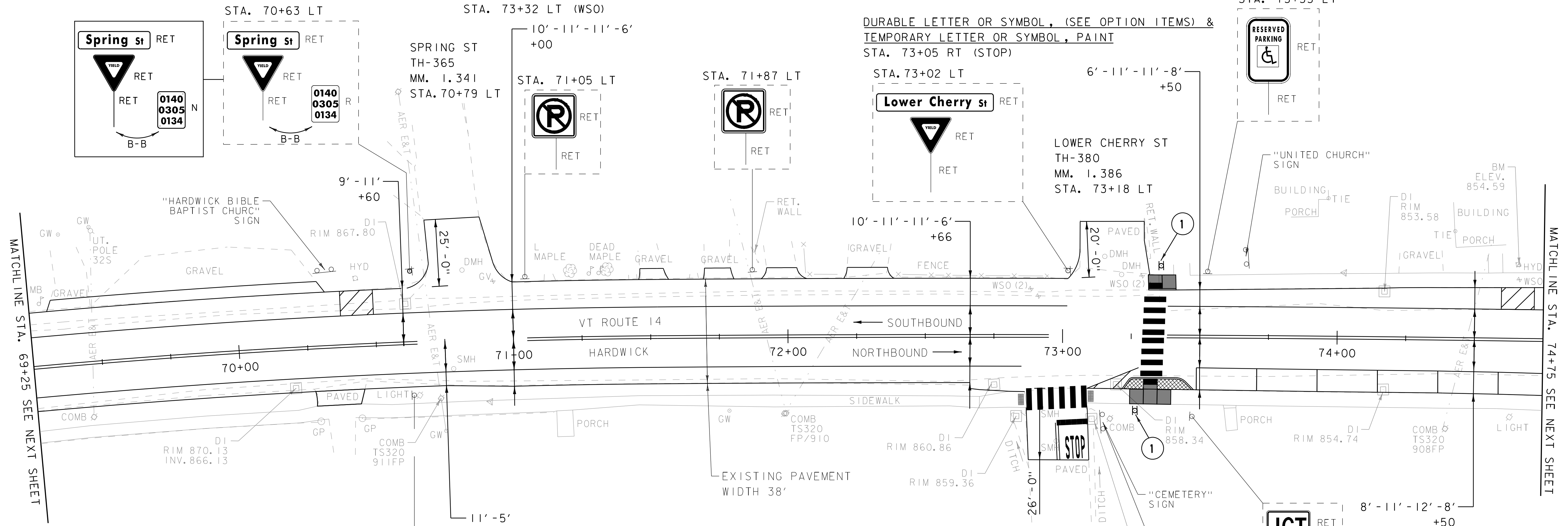
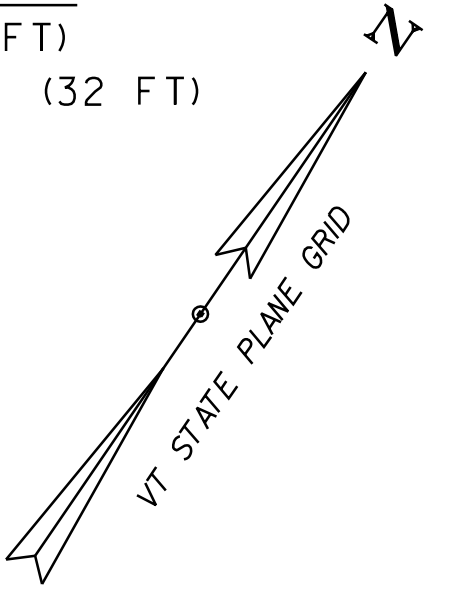
DURABLE LETTER OR SYMBOL, (SEE OPTION ITEMS) &  
TEMPORARY LETTER OR SYMBOL, PAINT

STA. 73+05 RT (STOP)

DURABLE CROSSWALK MARKING, (SEE OPTION ITEMS) &  
TEMPORARY CROSSWALK MARKING, PAINT

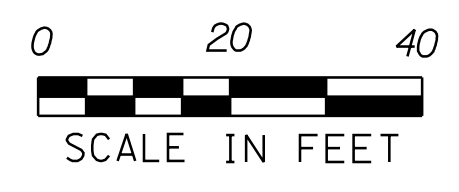
STA. 72+87 - STA. 73+08 RT (22 FT)  
STA. 73+32 - STA. 73+34 (LT&RT) (32 FT)

REMOVING SIGNS  
AS SHOWN - 1



**SIGN LEGEND**

R = REMOVE  
R&RES = REMOVE AND RESET  
RES = RESET  
RET = RETAIN  
N = NEW  
B-B = BACK TO BACK  
-- = EXISTING  
— = NEW



PROJECT NAME: HARDWICK  
PROJECT NUMBER: STP PC23(I)

FILE NAME: z19v425bdr.dgn  
PROJECT LEADER: C. LATHROP  
DESIGNED BY: S. SOLLA  
PROJECT LAYOUT SHEET 4

PLOT DATE: 7/28/2021  
DRAWN BY: O. DALMER  
CHECKED BY: C. LATHROP  
SHEET 29 OF 78

REHAB DROP INLETS, CATCH BASINS, OR  
MANHOLES, CLASS I, CLASS II, CLASS III  
STA. 75+80 RT (DI GRATE TYPE D)  
STA. 76+07 LT (DI GRATE TYPE D)  
STA. 77+01 RT (DI GRATE TYPE D)  
STA. 77+46 RT (DI GRATE TYPE D)  
STA. 78+51 LT (DI GRATE TYPE D)  
STA. 78+88 LT (DI GRATE TYPE D)  
STA. 78+88 RT (DI GRATE TYPE D)

CHANGING ELEVATION OF SEWER MANHOLES  
STA. 76+46 LT (SMH)

ADJUST ELEVATION OF VALVE BOX  
STA. 76+29 LT (WSO)

DURABLE 4 INCH WHITE LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH WHITE LINE, PAINT  
(LINES WILL INCLUDE EDGE LINE BREAK AND RADIUS AS SHOWN)  
STA. 74+75 - STA. 75+29 (SOLID LT)  
STA. 74+75 - STA. 79+25 (PARKING RT INCLUDING HATCH)  
STA. 75+23 - STA. 76+18 (PARKING LT INCLUDING HATCH)  
STA. 76+46 - STA. 77+05 (SOLID LT)  
STA. 77+16 - STA. 78+64 (PARKING LT INCLUDING HATCH)  
STA. 78+88 - STA. 79+25 (SOLID LT)

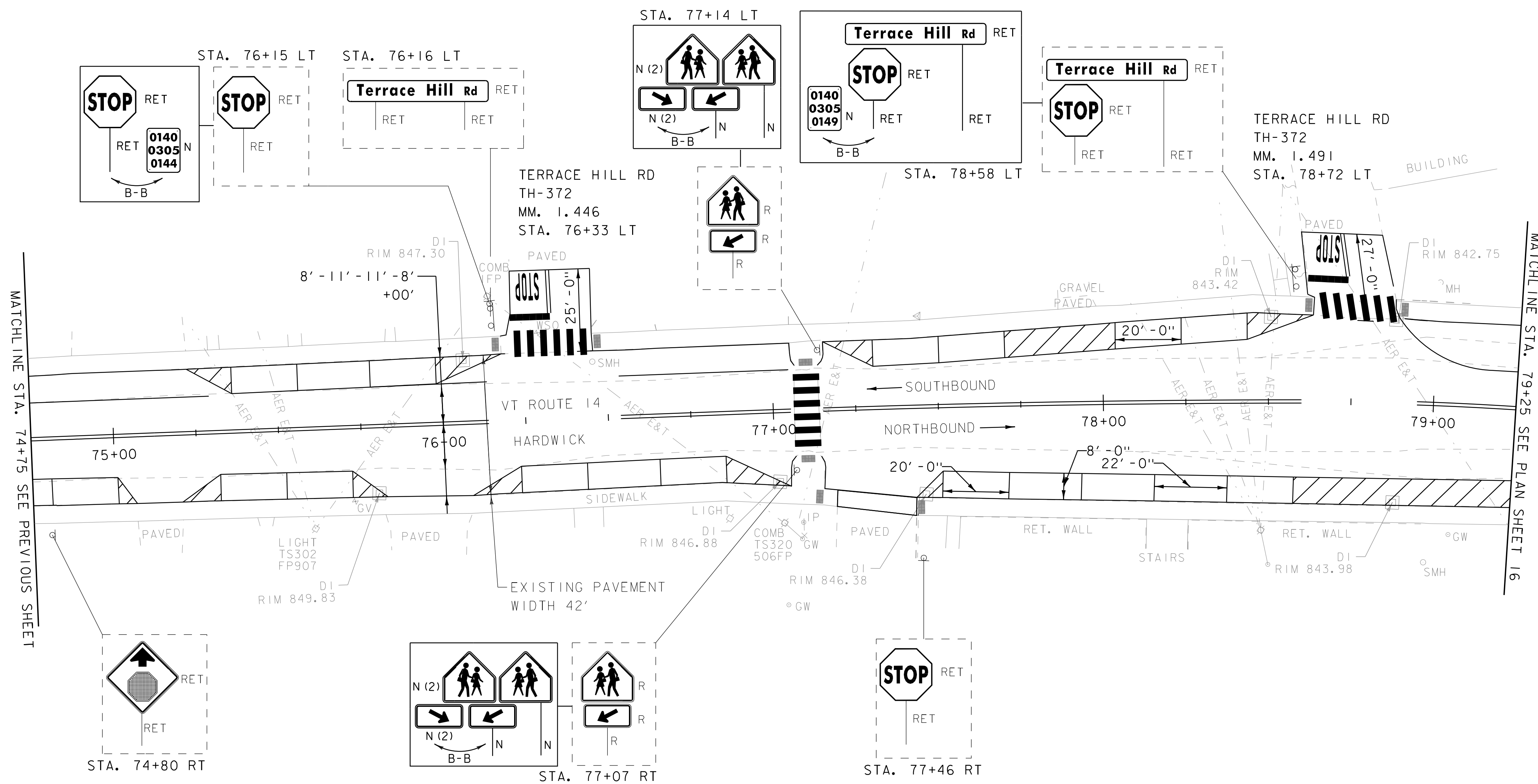
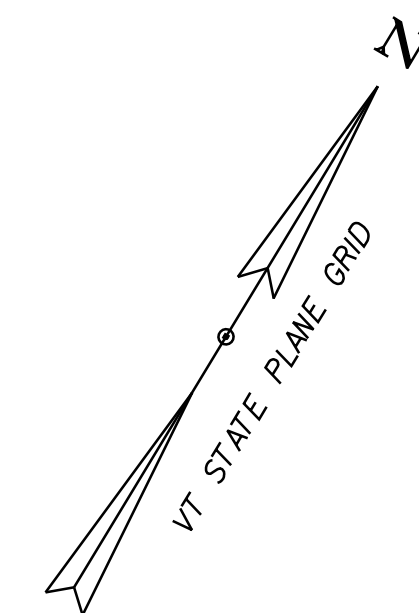
DURABLE 4 INCH YELLOW LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH YELLOW LINE, PAINT  
(LINES WILL INCLUDE CENTERLINE BREAKS AS SHOWN)  
STA. 74+75 - STA. 79+25 (SOLID LT & RT)  
STA. 76+33 LT (CENTERLINE AT TH-372)  
STA. 78+74 LT (CENTERLINE AT TH-372)

DURABLE 24 INCH STOP BAR, (SEE OPTION ITEMS) &  
TEMPORARY 24 INCH STOP BAR, PAINT  
STA. 76+21 - STA. 76+33 LT (12 FT)  
STA. 78+62 - STA. 78+74 LT (12 FT)

DURABLE LETTER OR SYMBOL, (SEE OPTION ITEMS) &  
TEMPORARY LETTER OR SYMBOL, PAINT  
STA. 76+27 LT (STOP)  
STA. 78+68 LT (STOP)

DURABLE CROSSWALK MARKING, (SEE OPTION ITEMS) &  
TEMPORARY CROSSWALK MARKING, PAINT  
STA. 76+22 - 76+44 LT (22 FT)  
STA. 77+10 (LT&RT) (22 FT)  
STA. 78+65 - STA. 78+87 LT (25 FT)

REMOVING SIGNS  
AS SHOWN - 4



**SIGN LEGEND**

- R = REMOVE
- R&RES = REMOVE AND RESET
- RES = RESET
- RET = RETAIN
- N = NEW
- B-B = BACK TO BACK
- - = EXISTING
- = NEW

PROJECT NAME: HARDWICK  
PROJECT NUMBER: STP PC23(I)

FILE NAME: z19v425bdr.dgn  
PROJECT LEADER: C. LATHROP  
DESIGNED BY: S. SOLLA  
PROJECT LAYOUT SHEET 5

PLOT DATE: 7/28/2021  
DRAWN BY: O. DALMER  
CHECKED BY: C. LATHROP  
SHEET 30 OF 78



REHAB DROP INLETS, CATCH BASINS, OR  
MANHOLES, CLASS I, CLASS II, CLASS III  
STA. 116+80 LT (GRATE TYPE D)  
STA. 117+62 LT (GRATE TYPE D)

STEEL BEAM GUARDRAIL, GALVANIZED  
STA. 117+23 - STA. 117+61 RT  
STA. 118+07 - STA. 118+19 LT  
STA. 120+20 - STA. 120+58 LT

ANCHOR FOR STEEL BEAM GUARDRAIL  
STA. 117+23 RT  
STA. 118+07 LT  
STA. 120+58 LT

ADJUST HEIGHT OF GUARDRAIL  
STA. 117+61 - STA. 118+00 RT  
STA. 119+46 - STA. 120+20 LT  
STA. 119+81 - STA. 120+11 RT

REMOVAL AND DISPOSAL OF GUARDRAIL  
STA. 117+23 - STA. 117+61 RT  
STA. 118+07 - STA. 118+19 LT  
STA. 120+20 - STA. 120+58 LT

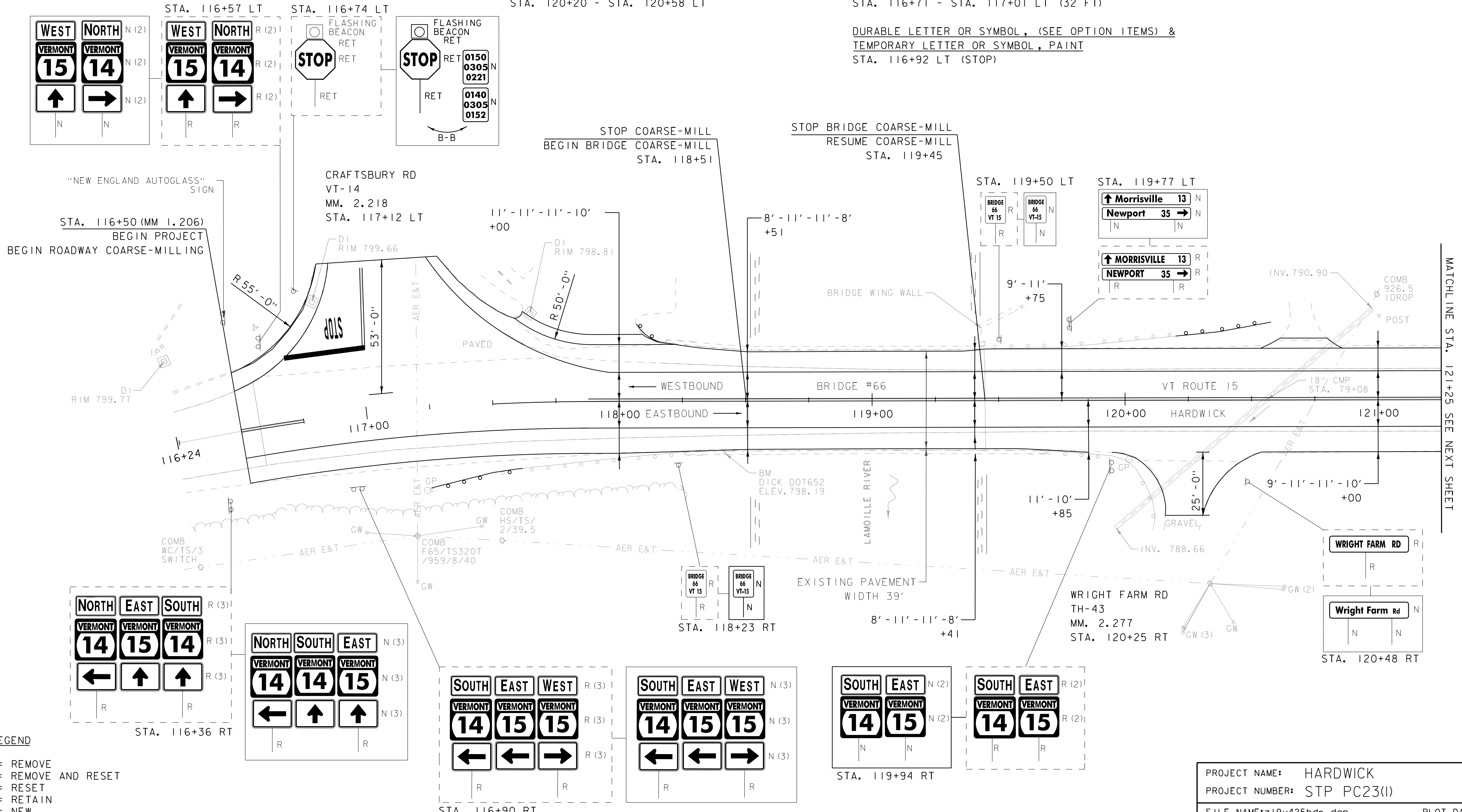
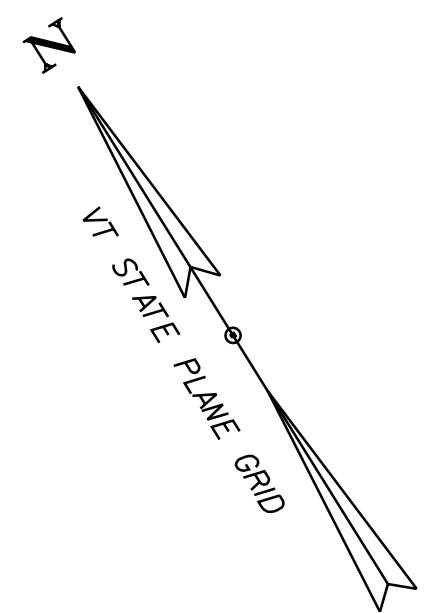
DURABLE 4 INCH WHITE LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH WHITE LINE, PAINT  
(LINES WILL INCLUDE EDGE LINE BREAK AND RADIUS AS SHOWN)  
STA. 116+50 - STA. 121+25 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH YELLOW LINE, PAINT  
(LINES WILL INCLUDE CENTERLINE BREAKS AS SHOWN)  
STA. 116+50 - STA. 121+25 (SOLID LT & RT)  
STA. 117+01 LT (CENTERLINE AT VT-14)

DURABLE 24 INCH STOP BAR, (SEE OPTION ITEMS) &  
TEMPORARY 24 INCH STOP BAR, PAINT  
STA. 116+71 - STA. 117+01 LT (32 FT)

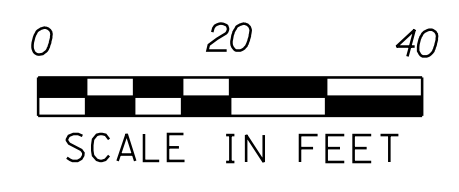
DURABLE LETTER OR SYMBOL, (SEE OPTION ITEMS) &  
TEMPORARY LETTER OR SYMBOL, PAINT  
STA. 116+92 LT (STOP)

REMOVING SIGNS  
AS SHOWN - 33



**SIGN LEGEND**

- R = REMOVE
- R&RES = REMOVE AND RESET
- RES = RESET
- RET = RETAIN
- N = NEW
- B-B = BACK TO BACK
- - = EXISTING
- = NEW



PROJECT NAME: HARDWICK  
PROJECT NUMBER: STP PC23(I)

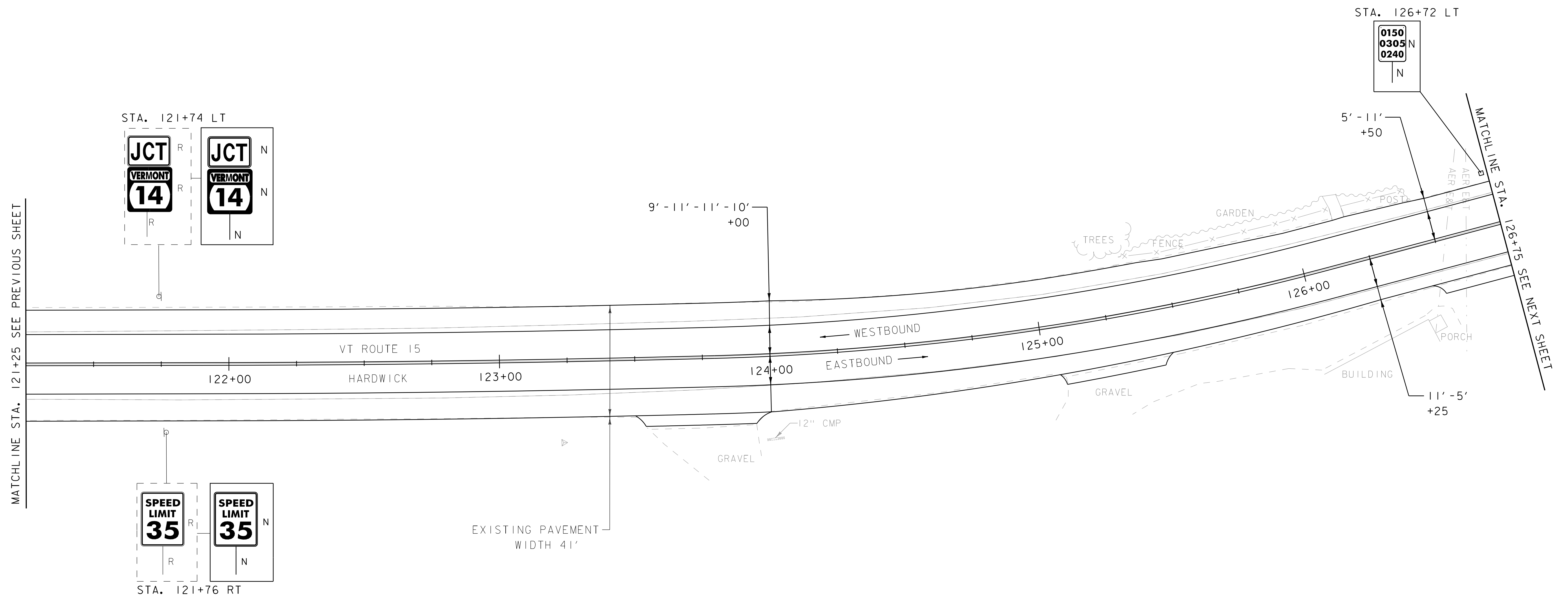
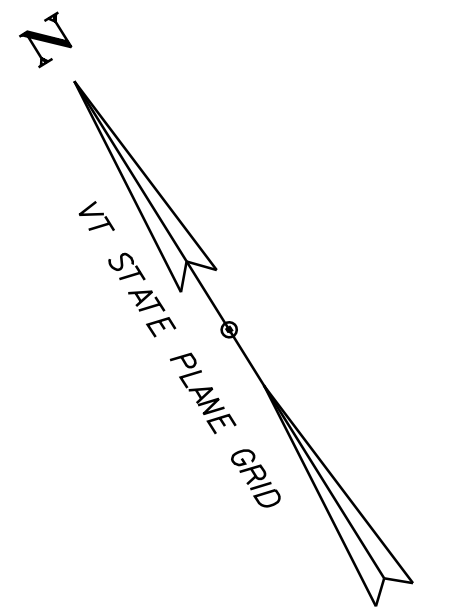
FILE NAME: z19v425bdr.dgn  
PROJECT LEADER: C. LATHROP  
DESIGNED BY: S. SOLLA  
PROJECT LAYOUT SHEET 6

PLOT DATE: 7/28/2021  
DRAWN BY: O. DALMER  
CHECKED BY: C. LATHROP  
SHEET 31 OF 78

DURABLE 4 INCH WHITE LINE, (SEE OPTION ITEMS) &  
 TEMPORARY 4 INCH WHITE LINE, PAINT  
 (LINES WILL INCLUDE EDGE LINE BREAK AND RADII AS SHOWN)  
 STA. 121+25 - STA. 126+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE, (SEE OPTION ITEMS) &  
 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 (LINES WILL INCLUDE CENTERLINE BREAKS AS SHOWN)  
 STA. 121+25 - STA. 126+75 (SOLID LT & RT)

REMOVING SIGNS  
 AS SHOWN - 3



**SIGN LEGEND**

- R = REMOVE
- R&RES = REMOVE AND RESET
- RES = RESET
- RET = RETAIN
- N = NEW
- B-B = BACK TO BACK
- - = EXISTING
- = NEW



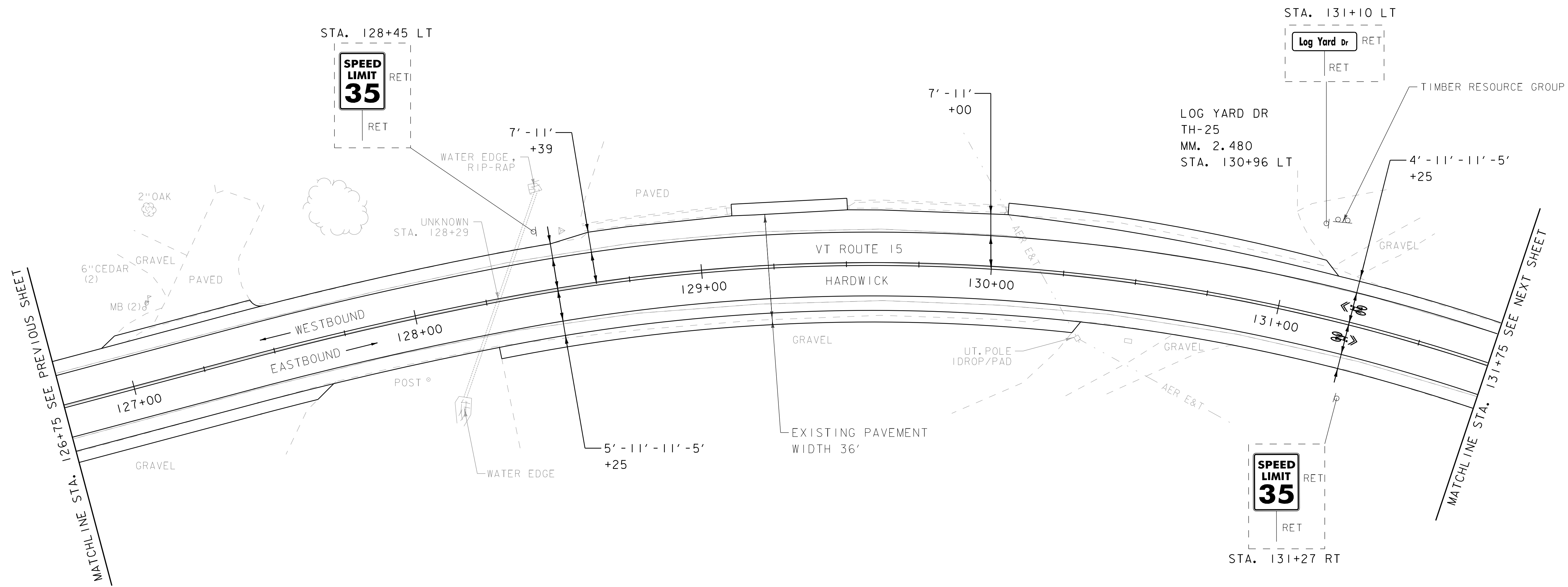
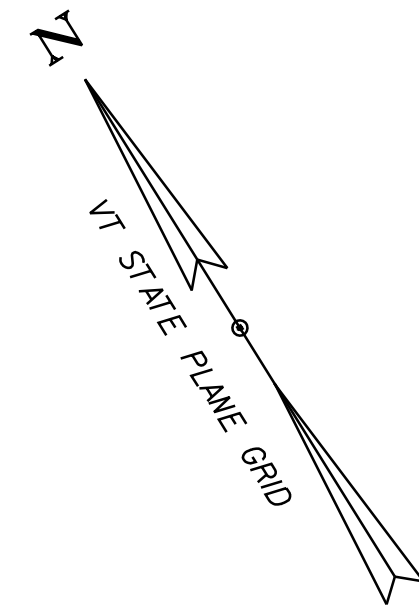
PROJECT NAME: HARDWICK	
PROJECT NUMBER: STP PC23(I)	
FILE NAME: z19v425bdr.dgn	PLOT DATE: 7/28/2021
PROJECT LEADER: C. LATHROP	DRAWN BY: O. DALMER
DESIGNED BY: S. SOLLA	CHECKED BY: C. LATHROP
PROJECT LAYOUT SHEET 7	SHEET 32 OF 78



DURABLE 4 INCH WHITE LINE, (SEE OPTION ITEMS) &  
 TEMPORARY 4 INCH WHITE LINE, PAINT  
 (LINES WILL INCLUDE EDGE LINE BREAK AND RADII AS SHOWN)  
 STA. 126+75 - STA. 131+75 (SOLID LT & RT)

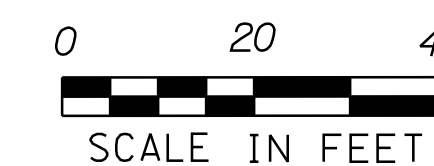
DURABLE 4 INCH YELLOW LINE, (SEE OPTION ITEMS) &  
 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 (LINES WILL INCLUDE CENTERLINE BREAKS AS SHOWN)  
 STA. 126+75 - STA. 131+75 (SOLID LT & RT)

DURABLE LETTER OR SYMBOL, (SEE OPTION ITEMS) &  
 TEMPORARY LETTER OR SYMBOL, PAINT  
 STA. 131+25 RT ("SHARROW" SYMBOL)  
 STA. 131+25 LT ("SHARROW" SYMBOL)



**SIGN LEGEND**

- R = REMOVE
- R&RES = REMOVE AND RESET
- RES = RESET
- RET = RETAIN
- N = NEW
- B-B = BACK TO BACK
- - = EXISTING
- = NEW



PROJECT NAME: HARDWICK	
PROJECT NUMBER: STP PC23(I)	
FILE NAME: z19v425bdr.dgn	PLOT DATE: 7/28/2021
PROJECT LEADER: C. LATHROP	DRAWN BY: O. DALMER
DESIGNED BY: S. SOLLA	CHECKED BY: C. LATHROP
PROJECT LAYOUT SHEET 8	SHEET 33 OF 78

DURABLE 4 INCH WHITE LINE, (SEE OPTION ITEMS) &  
 TEMPORARY 4 INCH WHITE LINE, PAINT  
 (LINES WILL INCLUDE EDGE LINE BREAK AND RADII AS SHOWN)  
 STA. 131+75 - STA. 137-75 (SOLID LT & RT)

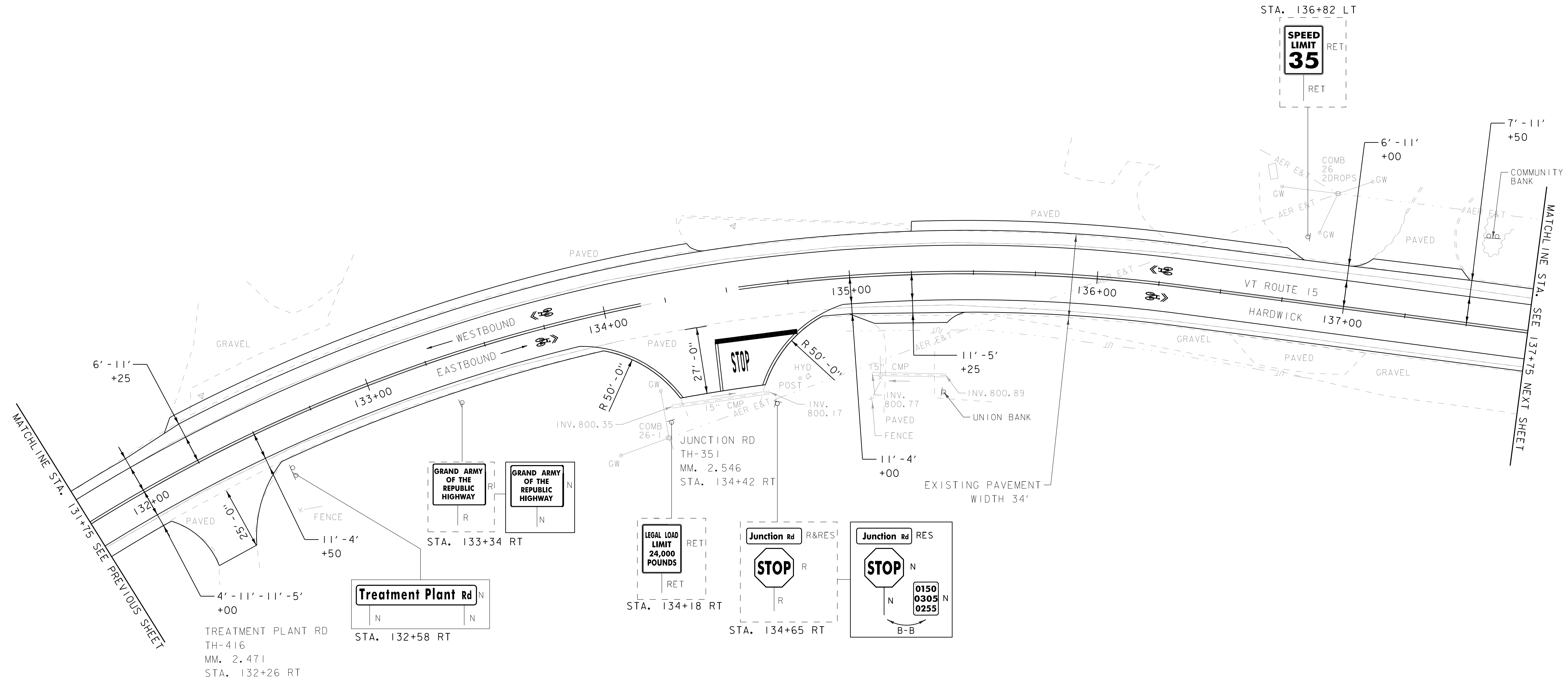
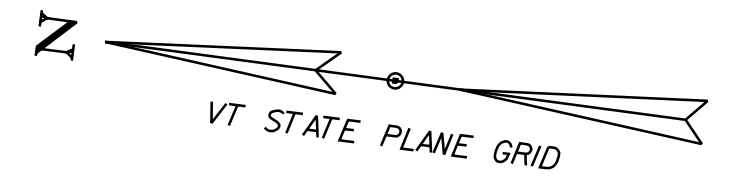
DURABLE 4 INCH YELLOW LINE, (SEE OPTION ITEMS) &  
 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 (LINES WILL INCLUDE CENTERLINE BREAKS AS SHOWN)  
 STA. 131+75 - STA. 137-75 (SOLID LT & RT)  
 STA. 134+42 RT (CENTERLINE AT TH-351)

DURABLE 24 INCH STOP BAR, (SEE OPTION ITEMS) &  
 TEMPORARY 24 INCH STOP BAR, PAINT  
 STA. 134+42 - STA. 134+77 RT (33 FT)

DURABLE LETTER OR SYMBOL, (SEE OPTION ITEMS) &  
 TEMPORARY LETTER OR SYMBOL, PAINT  
 STA. 133+75 RT ("SHARROW" SYMBOL)  
 STA. 133+75 LT ("SHARROW" SYMBOL)  
 STA. 134+52 RT (STOP)  
 STA. 136+25 RT ("SHARROW" SYMBOL)  
 STA. 136+25 LT ("SHARROW" SYMBOL)

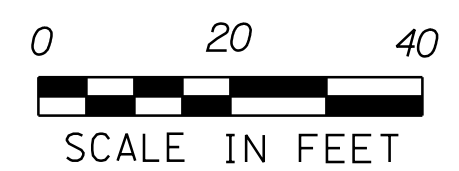
REMOVING SIGNS  
 AS SHOWN - 3

RESETTING SIGNS  
 AS SHOWN - 1



**SIGN LEGEND**

R	= REMOVE
R&RES	= REMOVE AND RESET
RES	= RESET
RET	= RETAIN
N	= NEW
B-B	= BACK TO BACK
- -	= EXISTING
—	= NEW



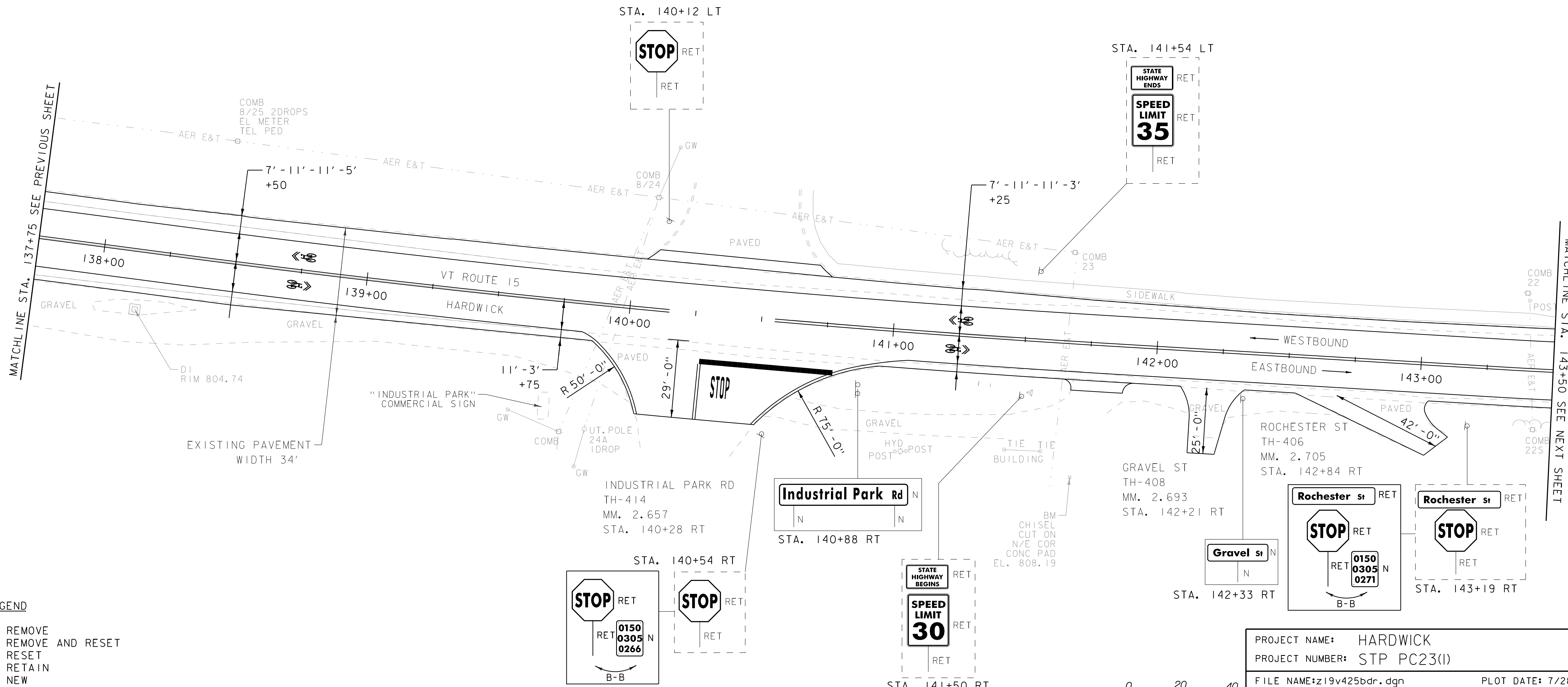
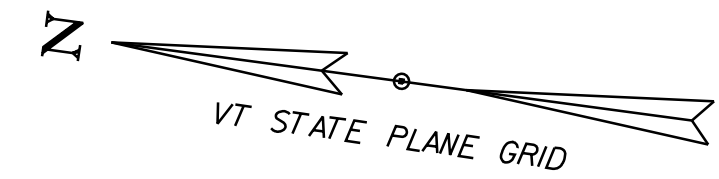
PROJECT NAME: HARDWICK	
PROJECT NUMBER: STP PC23(I)	
FILE NAME: z19v425bdr.dgn	PLOT DATE: 7/28/2021
PROJECT LEADER: C. LATHROP	DRAWN BY: O. DALMER
DESIGNED BY: S. SOLLA	CHECKED BY: C. LATHROP
PROJECT LAYOUT SHEET 9	SHEET 34 OF 78

DURABLE 4 INCH WHITE LINE, (SEE OPTION ITEMS) &  
 TEMPORARY 4 INCH WHITE LINE, PAINT  
 (LINES WILL INCLUDE EDGE LINE BREAK AND RADIUS AS SHOWN)  
 STA. 137+75 - STA. 143+50 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE, (SEE OPTION ITEMS) &  
 TEMPORARY 4 INCH YELLOW LINE, PAINT  
 (LINES WILL INCLUDE CENTERLINE BREAKS AS SHOWN)  
 STA. 137+75 - STA. 143+50 (SOLID LT & RT)  
 STA. 140+28 RT (CENTERLINE AT TH-414)

DURABLE 24 INCH STOP BAR, (SEE OPTION ITEMS) &  
 TEMPORARY 24 INCH STOP BAR, PAINT  
 STA. 140+28 - STA. 140+78 RT (51 FT)

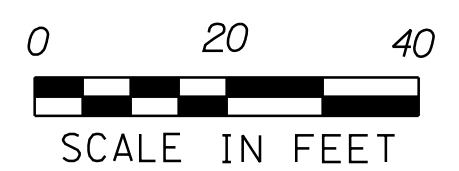
DURABLE LETTER OR SYMBOL, (SEE OPTION ITEMS) &  
 TEMPORARY LETTER OR SYMBOL, PAINT  
 STA. 138+75 RT ("SHARROW" SYMBOL)  
 STA. 138+75 LT ("SHARROW" SYMBOL)  
 STA. 140+37 RT (STOP)  
 STA. 141+25 RT ("SHARROW" SYMBOL)  
 STA. 141+25 LT ("SHARROW" SYMBOL)

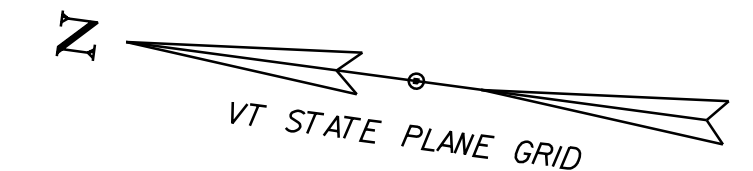


**SIGN LEGEND**

R = REMOVE  
 R&RES = REMOVE AND RESET  
 RES = RESET  
 RET = RETAIN  
 N = NEW  
 B-B = BACK TO BACK  
 - - = EXISTING  
 — = NEW

PROJECT NAME: HARDWICK  
 PROJECT NUMBER: STP PC23(I)  
 FILE NAME: z19v425bdr.dgn  
 PROJECT LEADER: C. LATHROP  
 DESIGNED BY: S. SOLLA  
 PROJECT LAYOUT SHEET 10  
 PLOT DATE: 7/28/2021  
 DRAWN BY: O. DALMER  
 CHECKED BY: C. LATHROP  
 SHEET 35 OF 78





CHANGING ELEVATION OF SEWER MANHOLES

STA. 144+09 LT (SMH)  
STA. 148+52 RT (SMH)

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH

STA. 143+63 - STA. 143+73 LT  
STA. 144+14 - STA. 144+24 LT

DETECTABLE WARNING SURFACE

STA. 143+72 LT (10 SF)  
STA. 144+19 LT (10 SF)

DURABLE 4 INCH WHITE LINE, (SEE OPTION ITEMS) &

TEMPORARY 4 INCH WHITE LINE, PAINT  
(LINES WILL INCLUDE EDGE LINE BREAK AND RADII AS SHOWN)  
STA. 143+50 - STA. 149+50 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE, (SEE OPTION ITEMS) &

TEMPORARY 4 INCH YELLOW LINE, PAINT  
(LINES WILL INCLUDE CENTERLINE BREAKS AS SHOWN)  
STA. 143+50 - STA. 149+50 (SOLID LT & RT)  
STA. 148+52 RT (CENTERLINE AT TH-400)

DURABLE 24 INCH STOP BAR, (SEE OPTION ITEMS) &

TEMPORARY 24 INCH STOP BAR, PAINT  
STA. 148+52 - 148+74 RT (21 FT)

DURABLE LETTER OR SYMBOL, (SEE OPTION ITEMS) &

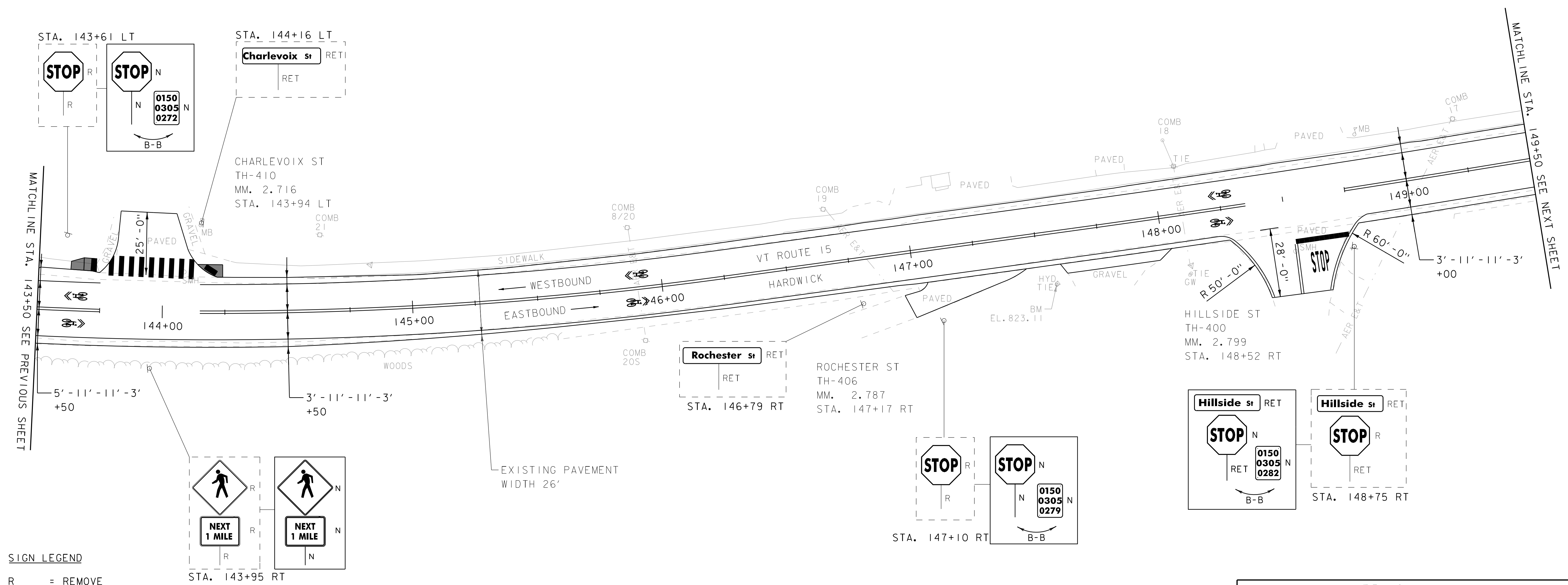
TEMPORARY LETTER OR SYMBOL, PAINT  
STA. 143+65 RT ("SHARROW" SYMBOL)  
STA. 143+65 LT ("SHARROW" SYMBOL)  
STA. 145+90 RT ("SHARROW" SYMBOL)  
STA. 145+90 LT ("SHARROW" SYMBOL)  
STA. 148+25 RT ("SHARROW" SYMBOL)  
STA. 148+25 LT ("SHARROW" SYMBOL)  
STA. 148+62 RT (STOP)

DURABLE CROSSWALK MARKING, (SEE OPTION ITEMS) &

TEMPORARY CROSSWALK MARKING, PAINT  
STA. 143+78 - STA. 144+13 LT (34 FT)

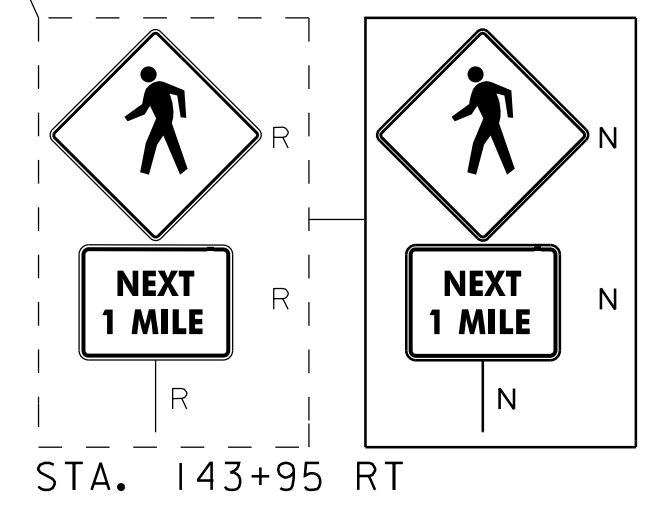
REMOVING SIGNS

AS SHOWN - 5



SIGN LEGEND

- R = REMOVE
- R&RES = REMOVE AND RESET
- RES = RESET
- RET = RETAIN
- N = NEW
- B-B = BACK TO BACK
- - = EXISTING
- = NEW



PROJECT NAME: HARDWICK	
PROJECT NUMBER: STP PC23(I)	
FILE NAME: z19v425bdr.dgn	PLOT DATE: 7/28/2021
PROJECT LEADER: C. LATHROP	DRAWN BY: O. DALMER
DESIGNED BY: S. SOLLA	CHECKED BY: C. LATHROP
PROJECT LAYOUT SHEET 11	SHEET 36 OF 78

REHAB DROP INLETS, CATCH BASINS, OR  
MANHOLES, CLASS I, CLASS II, CLASS III  
STA. 152+52 RT (GRATE TYPE D)  
STA. 153+57 RT (GRATE TYPE E)

CHANGING ELEVATION OF SEWER MANHOLES  
STA. 152+60 RT (SMH)  
STA. 153+81 LT (SMH)

CAST-IN-PLACE CONCRETE CURB, TYPE B  
STA. 152+79 - STA. 152+90 LT

REMOVAL OF EXISTING CURB  
STA. 152+79 - STA. 152+90 LT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH  
STA. 152+79 - STA. 152+90 LT  
STA. 152+84 - STA. 152+89 RT

DETECTABLE WARNING SURFACE  
STA. 152+87 RT (10 SF)  
STA. 152+87 LT (10 SF)

ADJUST ELEVATION OF VALVE BOX  
STA. 152+30 RT (GV)  
STA. 153+47 RT (WSO)

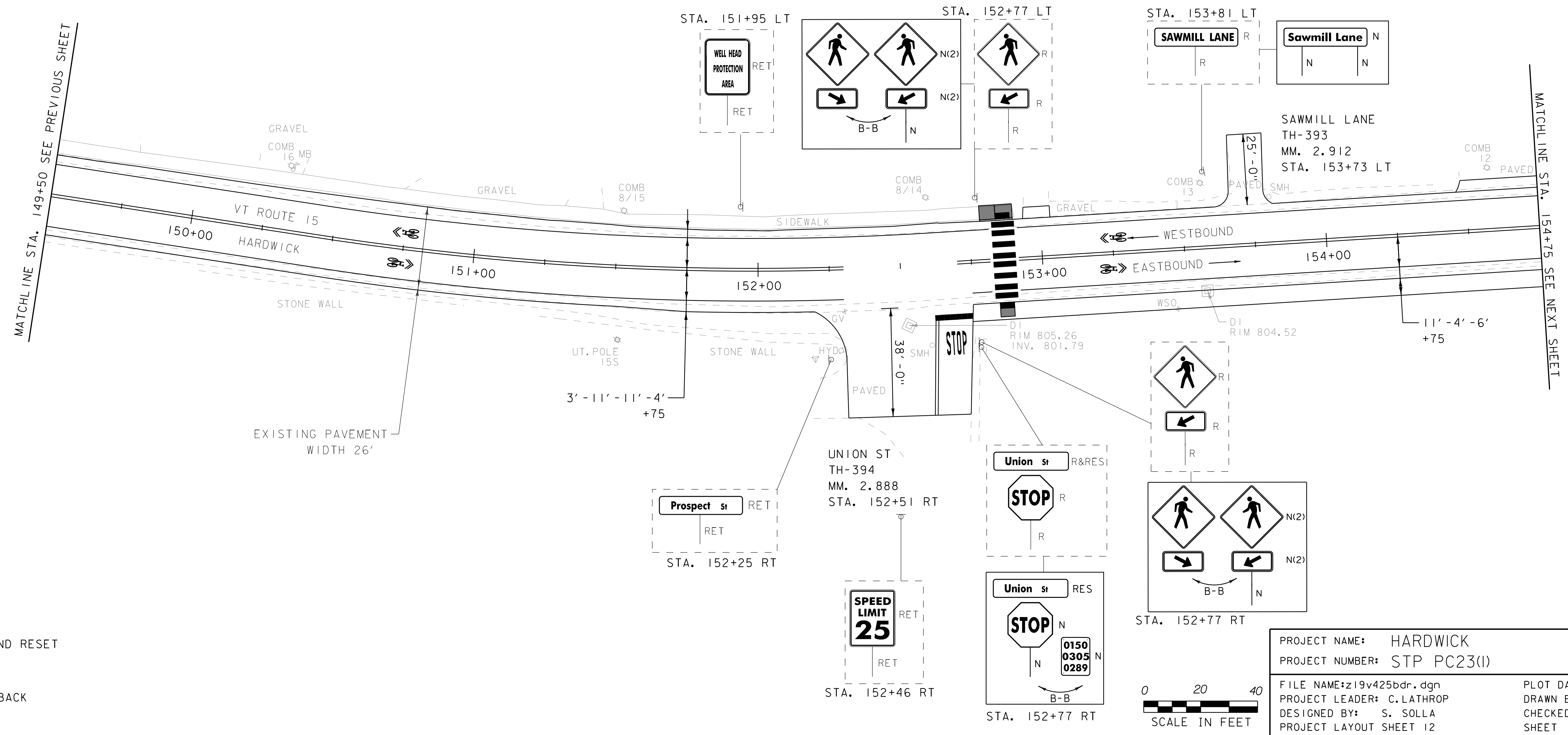
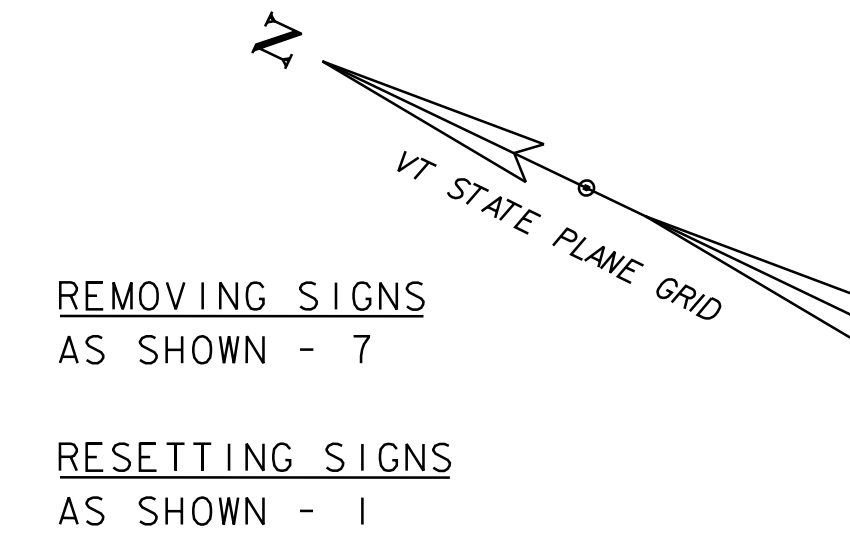
DURABLE 4 INCH WHITE LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH WHITE LINE, PAINT  
(LINES WILL INCLUDE EDGE LINE BREAK AND RADII AS SHOWN)  
STA. 149+50 - STA. 154+75 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH YELLOW LINE, PAINT  
(LINES WILL INCLUDE CENTERLINE BREAKS AS SHOWN)  
STA. 149+50 - STA. 154+75 (SOLID LT & RT)  
STA. 152+61 RT (CENTERLINE AT TH-394)

DURABLE 24 INCH STOP BAR, (SEE OPTION ITEMS) &  
TEMPORARY 24 INCH STOP BAR, PAINT  
STA. 152+61 - STA. 152+75 RT (13 FT)

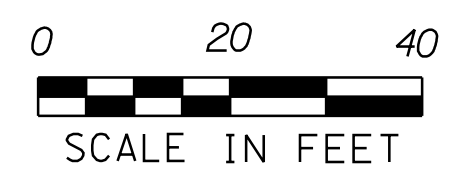
DURABLE LETTER OR SYMBOL, (SEE OPTION ITEMS) &  
TEMPORARY LETTER OR SYMBOL, PAINT  
STA. 150+75 RT ("SHARROW" SYMBOL)  
STA. 150+75 LT ("SHARROW" SYMBOL)  
STA. 152+68 RT (STOP)  
STA. 153+25 RT ("SHARROW" SYMBOL)  
STA. 153+25 LT ("SHARROW" SYMBOL)

DURABLE CROSSWALK MARKING, (SEE OPTION ITEMS) &  
TEMPORARY CROSSWALK MARKING, PAINT  
STA. 152+87 LT&RT (29 FT)



**SIGN LEGEND**  
 R = REMOVE  
 R&RES = REMOVE AND RESET  
 RES = RESET  
 RET = RETAIN  
 N = NEW  
 B-B = BACK TO BACK  
 - - = EXISTING  
 — = NEW

PROJECT NAME: HARDWICK  
 PROJECT NUMBER: STP PC23(I)  
 FILE NAME: z19v425bdr.dgn  
 PROJECT LEADER: C. LATHROP  
 DESIGNED BY: S. SOLLA  
 PROJECT LAYOUT SHEET 12  
 PLOT DATE: 7/28/2021  
 DRAWN BY: O. DALMER  
 CHECKED BY: C. LATHROP  
 SHEET 37 OF 78



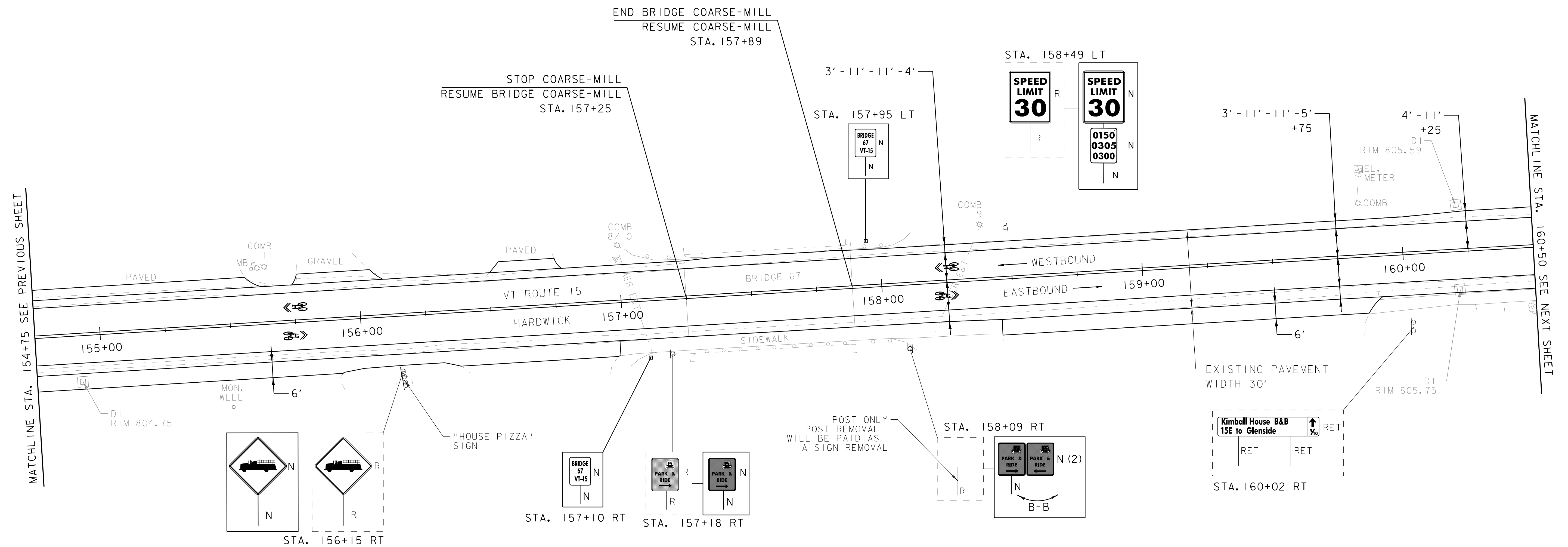
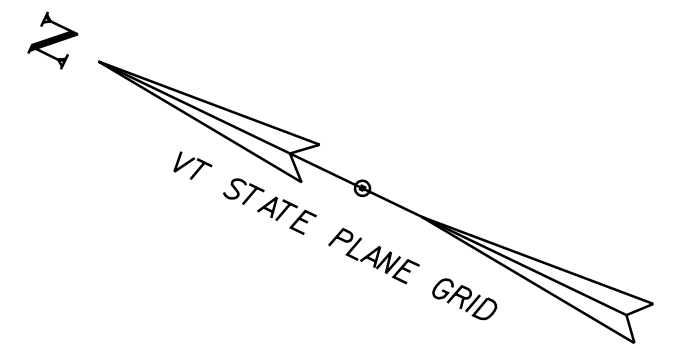
REHAB DROP INLETS, CATCH BASINS, OR  
MANHOLES, CLASS I, CLASS II, CLASS III  
STA. 154+92 RT (GRATE TYPE E)  
STA. 160+21 LT (GRATE TYPE D)  
STA. 160+21 RT (GRATE TYPE D)

DURABLE 4 INCH WHITE LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH WHITE LINE, PAINT  
(LINES WILL INCLUDE EDGE LINE BREAK AND RADII AS SHOWN)  
STA. 154+75 - STA. 160+50 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH YELLOW LINE, PAINT  
(LINES WILL INCLUDE CENTERLINE BREAKS AS SHOWN)  
STA. 154+75 - STA. 160+50 (SOLID LT & RT)

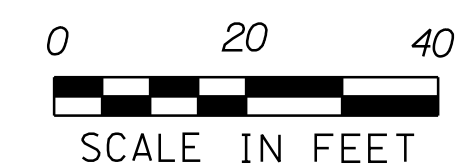
DURABLE LETTER OR SYMBOL, (SEE OPTION ITEMS) &  
TEMPORARY LETTER OR SYMBOL, PAINT  
STA. 155+75 RT ("SHARROW" SYMBOL)  
STA. 155+75 LT ("SHARROW" SYMBOL)  
STA. 158+25 RT ("SHARROW" SYMBOL)  
STA. 158+25 LT ("SHARROW" SYMBOL)

REMOVING SIGNS  
AS SHOWN - 4



**SIGN LEGEND**

- R = REMOVE
- R&RES = REMOVE AND RESET
- RES = RESET
- RET = RETAIN
- N = NEW
- B-B = BACK TO BACK
- - = EXISTING
- = NEW



PROJECT NAME: HARDWICK  
PROJECT NUMBER: STP PC23(I)

FILE NAME: z19v425bdr.dgn  
PROJECT LEADER: C. LATHROP  
DESIGNED BY: S. SOLLA  
PROJECT LAYOUT SHEET 13

PLOT DATE: 7/28/2021  
DRAWN BY: O. DALMER  
CHECKED BY: C. LATHROP  
SHEET 38 OF 78

REHAB DROP INLETS, CATCH BASINS, OR  
MANHOLES, CLASS I, CLASS II, CLASS III  
STA. 163+22 RT (GRATE TYPE D)

CHANGING ELEVATION OF SEWER MANHOLES  
STA. 163+00 RT (SMH)  
STA. 165+82 LT (SMH)  
STA. 165+82 LT (SMH)

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH  
STA. 162+73 - STA. 162+78 RT  
STA. 163+21 - STA. 163+26 RT  
STA. 165+69 - STA. 165+79 LT  
STA. 165+72 - STA. 165+86 RT  
STA. 166+14 - STA. 166+19 RT

DETECTABLE WARNING SURFACE  
STA. 162+76 RT (10 SF)  
STA. 163+25 RT (10 SF)  
STA. 165+71 LT (10 SF)  
STA. 165+80 RT (10 SF)  
STA. 166+16 RT (10 SF)

ADJUST ELEVATION OF VALVE BOX  
STA. 163+14 RT (GV)  
STA. 164+09 RT (GV)  
STA. 165+76 RT (GV)  
STA. 165+95 RT (GV)

DURABLE 4 INCH WHITE LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH WHITE LINE, PAINT  
(LINES WILL INCLUDE EDGE LINE BREAK AND RADIUS AS SHOWN)  
STA. 160+50 - STA. 166+50 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH YELLOW LINE, PAINT  
(LINES WILL INCLUDE CENTERLINE BREAKS AS SHOWN)  
STA. 160+50 - STA. 166+50 (SOLID LT & RT)  
STA. 163+05 RT (CENTERLINE AT TH-376)  
STA. 165+94 LT (CENTERLINE AT TH-392)

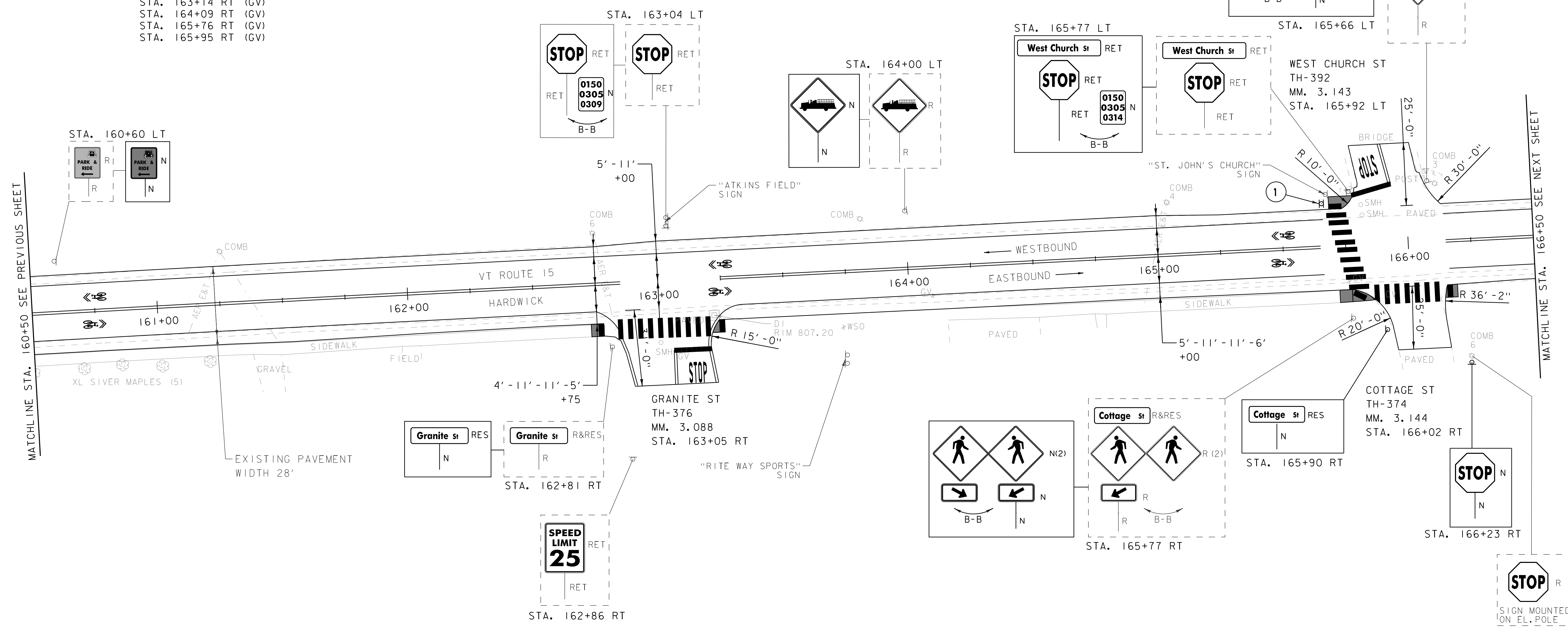
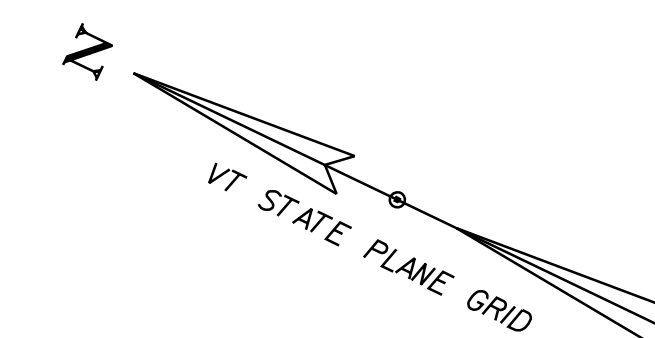
DURABLE 24 INCH STOP BAR, (SEE OPTION ITEMS) &  
TEMPORARY 24 INCH STOP BAR, PAINT  
STA. 163+05 - STA. 163+20 RT (15 FT)  
STA. 165+79 - STA. 165+94 LT (16 FT)

DURABLE LETTER OR SYMBOL, (SEE OPTION ITEMS) &  
TEMPORARY LETTER OR SYMBOL, PAINT  
STA. 160+75 RT ("SHARROW" SYMBOL)  
STA. 160+75 LT ("SHARROW" SYMBOL)  
STA. 163+14 RT (STOP)  
STA. 163+25 RT ("SHARROW" SYMBOL)  
STA. 163+25 LT ("SHARROW" SYMBOL)  
STA. 165+50 RT ("SHARROW" SYMBOL)  
STA. 165+50 LT ("SHARROW" SYMBOL)  
STA. 165+87 LT (STOP)

DURABLE CROSSWALK MARKING, (SEE OPTION ITEMS) &  
TEMPORARY CROSSWALK MARKING, PAINT  
STA. 162+83 - 163+20 RT (37 FT)  
STA. 165+72 LT - 165+79 RT (32 FT)  
STA. 165+86 - 166+12 RT (26 FT)

REMOVING SIGNS  
AS SHOWN - 9

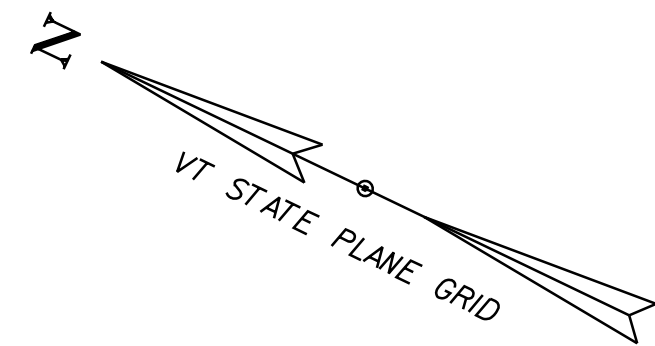
RESETTING SIGNS  
AS SHOWN - 2



**SIGN LEGEND**  
R = REMOVE  
R&RES = REMOVE AND RESET  
RES = RESET  
RET = RETAIN  
N = NEW  
B-B = BACK TO BACK  
- - = EXISTING  
— = NEW



PROJECT NAME: HARDWICK  
PROJECT NUMBER: STP PC23(1)  
FILE NAME: z19v425bdr.dgn  
PROJECT LEADER: C. LATHROP  
DESIGNED BY: S. SOLLA  
PROJECT LAYOUT SHEET 14  
PLOT DATE: 7/28/2021  
DRAWN BY: O. DALMER  
CHECKED BY: C. LATHROP  
SHEET 39 OF 78



REHAB DROP INLETS, CATCH BASINS, OR  
MANHOLES, CLASS I, CLASS II, CLASS III  
STA. 166+76 LT (GRATE TYPE D)  
STA. 172+17 RT (GRATE TYPE D)

CHANGING ELEVATION OF SEWER MANHOLES  
STA. 167+88 LT (SMH)  
STA. 168+76 LT (SMH)  
STA. 168+84 RT (SMH)

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH  
STA. 168+66 - STA. 168+71 RT  
STA. 168+99 - STA. 169+04 RT

DETECTABLE WARNING SURFACE  
STA. 168+68 RT (8 SF)  
STA. 169+00 RT (8 SF)

STEEL BEAM GUARDRAIL, GALVANIZED  
STA. 170+35 - STA. 170+72 LT

ANCHOR FOR STEEL BEAM GUARDRAIL  
STA. 170+35 LT

ADJUST HEIGHT OF GUARDRAIL  
STA. 170+72 - STA. 172+25 LT

REMOVAL AND DISPOSAL OF GUARDRAIL  
STA. 170+35 - STA. 170+72 LT

ADJUST ELEVATION OF VALVE BOX  
STA. 168+96 RT (GV)

DURABLE 4 INCH WHITE LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH WHITE LINE, PAINT  
(LINES WILL INCLUDE EDGE LINE BREAK AND RADII AS SHOWN)  
STA. 166+50 - STA. 172+25 (SOLID LT & RT)

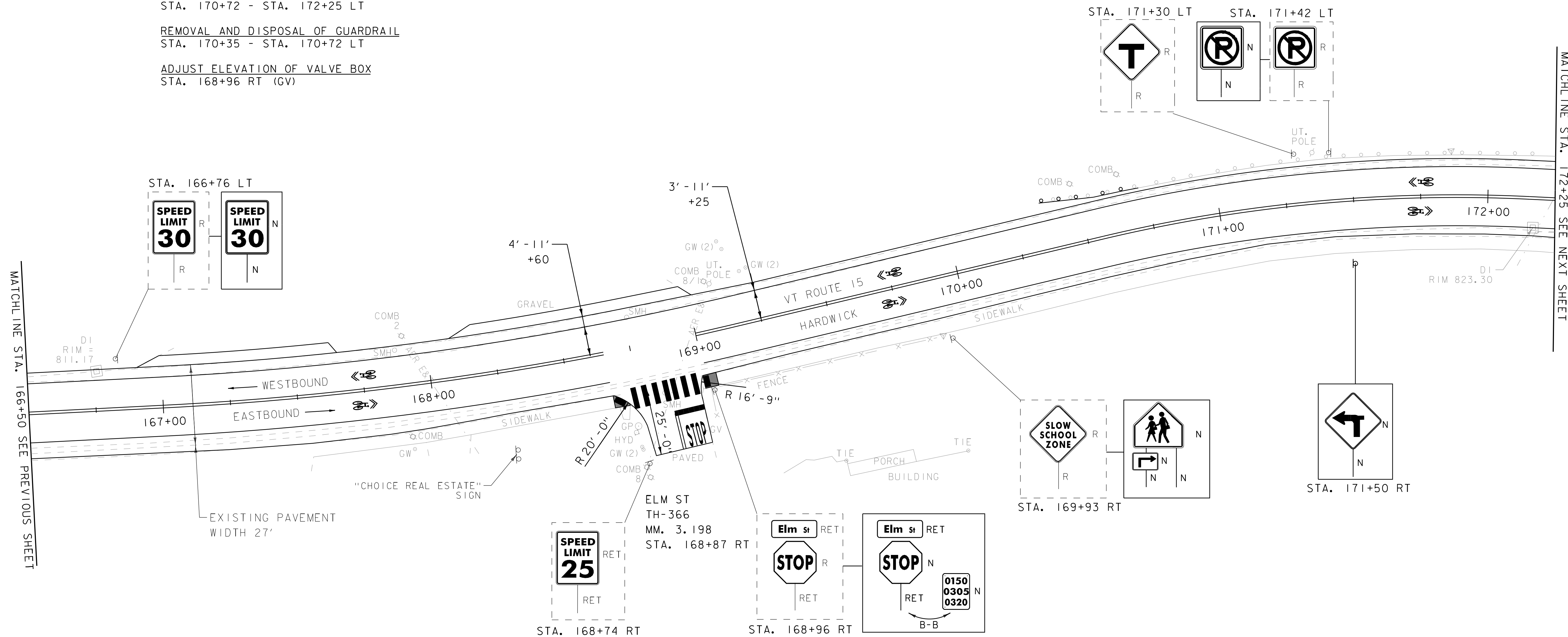
DURABLE 4 INCH YELLOW LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH YELLOW LINE, PAINT  
(LINES WILL INCLUDE CENTERLINE BREAKS AS SHOWN)  
STA. 166+50 - STA. 172+25 (SOLID LT & RT)  
STA. 168+86 RT (CENTERLINE AT TH-366)

DURABLE 24 INCH STOP BAR, (SEE OPTION ITEMS) &  
TEMPORARY 24 INCH STOP BAR, PAINT  
STA. 168+87 - STA. 168+98 RT (12 FT)

DURABLE LETTER OR SYMBOL, (SEE OPTION ITEMS) &  
TEMPORARY LETTER OR SYMBOL, PAINT  
STA. 167+75 RT ("SHARROW" SYMBOL)  
STA. 167+75 LT ("SHARROW" SYMBOL)  
STA. 168+93 RT (STOP)  
STA. 169+75 RT ("SHARROW" SYMBOL)  
STA. 169+75 LT ("SHARROW" SYMBOL)  
STA. 171+75 RT ("SHARROW" SYMBOL)  
STA. 171+75 LT ("SHARROW" SYMBOL)

DURABLE CROSSWALK MARKING, (SEE OPTION ITEMS) &  
TEMPORARY CROSSWALK MARKING, PAINT  
STA. 168+72 - STA. 168+97 RT (25 FT)

REMOVING SIGNS  
AS SHOWN - 5

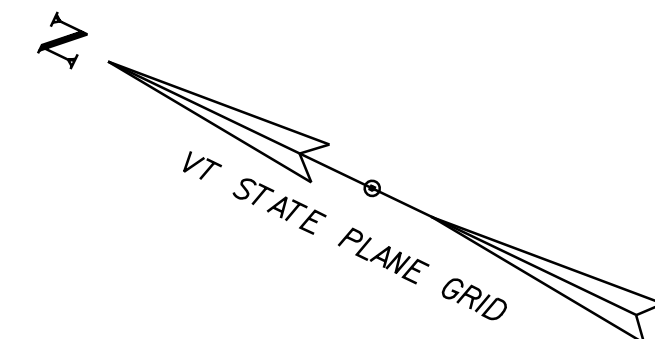


**SIGN LEGEND**  
 R = REMOVE  
 R&RES = REMOVE AND RESET  
 RES = RESET  
 RET = RETAIN  
 N = NEW  
 B-B = BACK TO BACK  
 - - = EXISTING  
 — = NEW

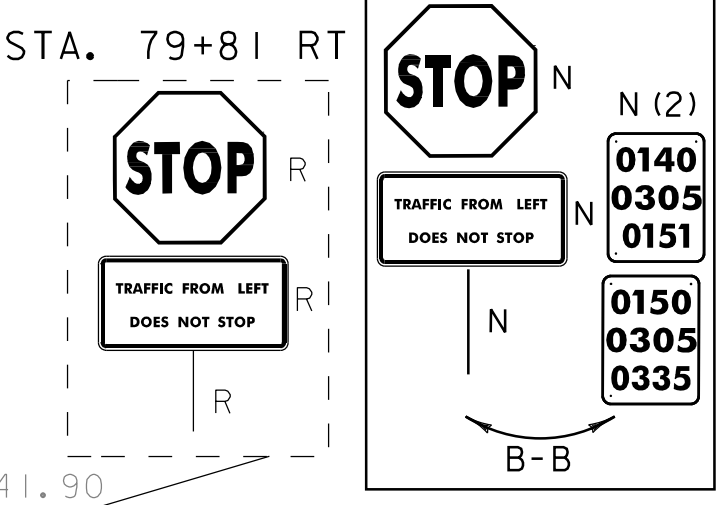
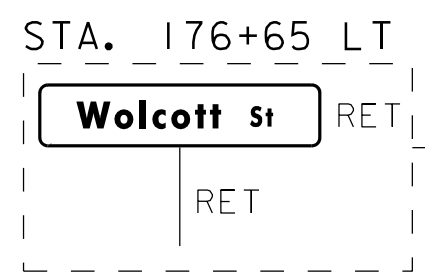
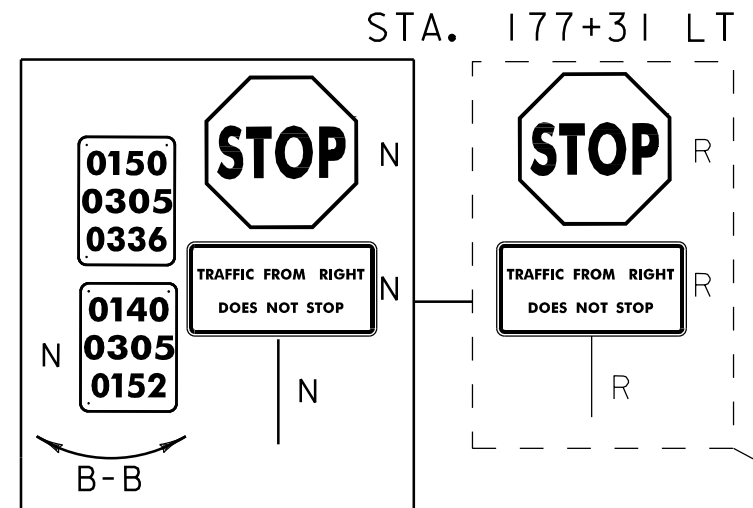
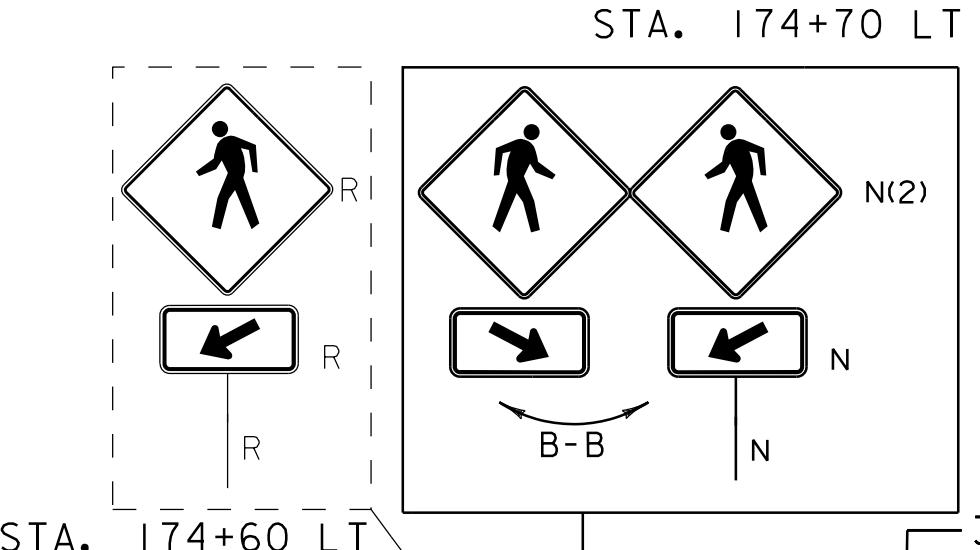
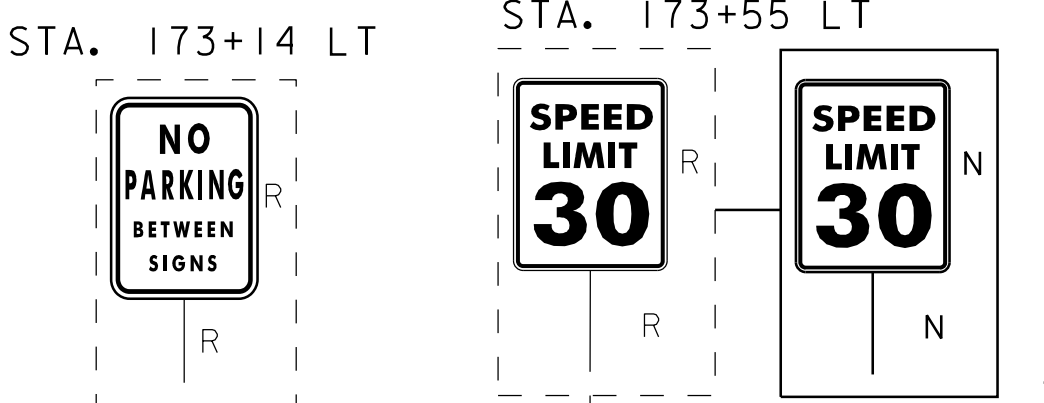
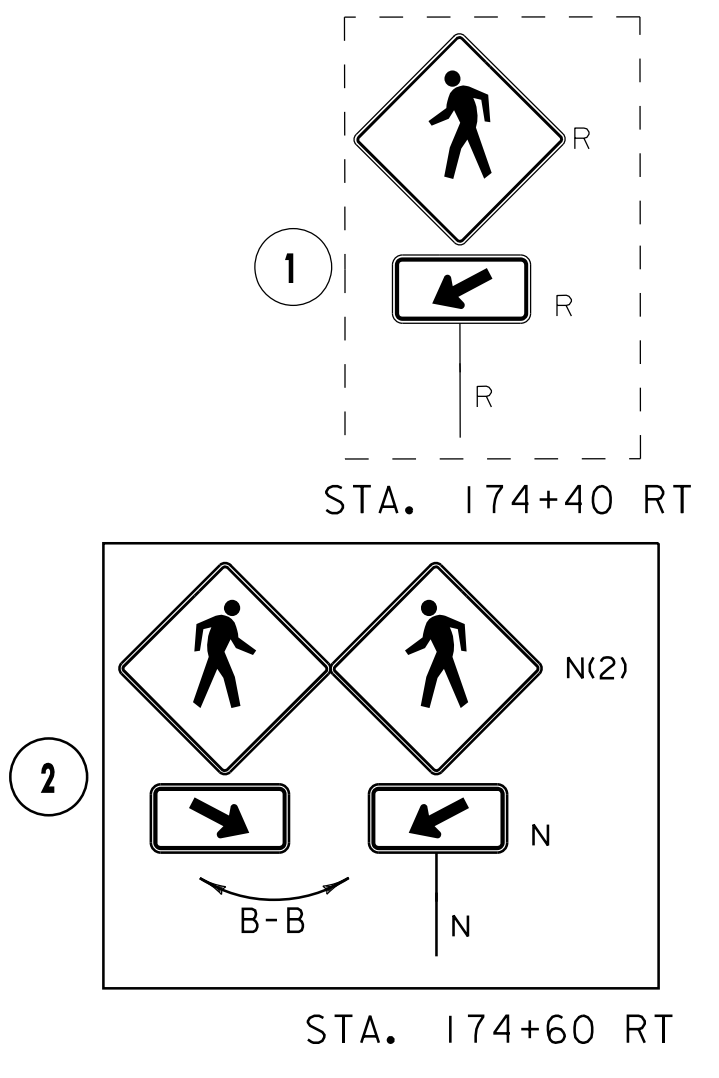
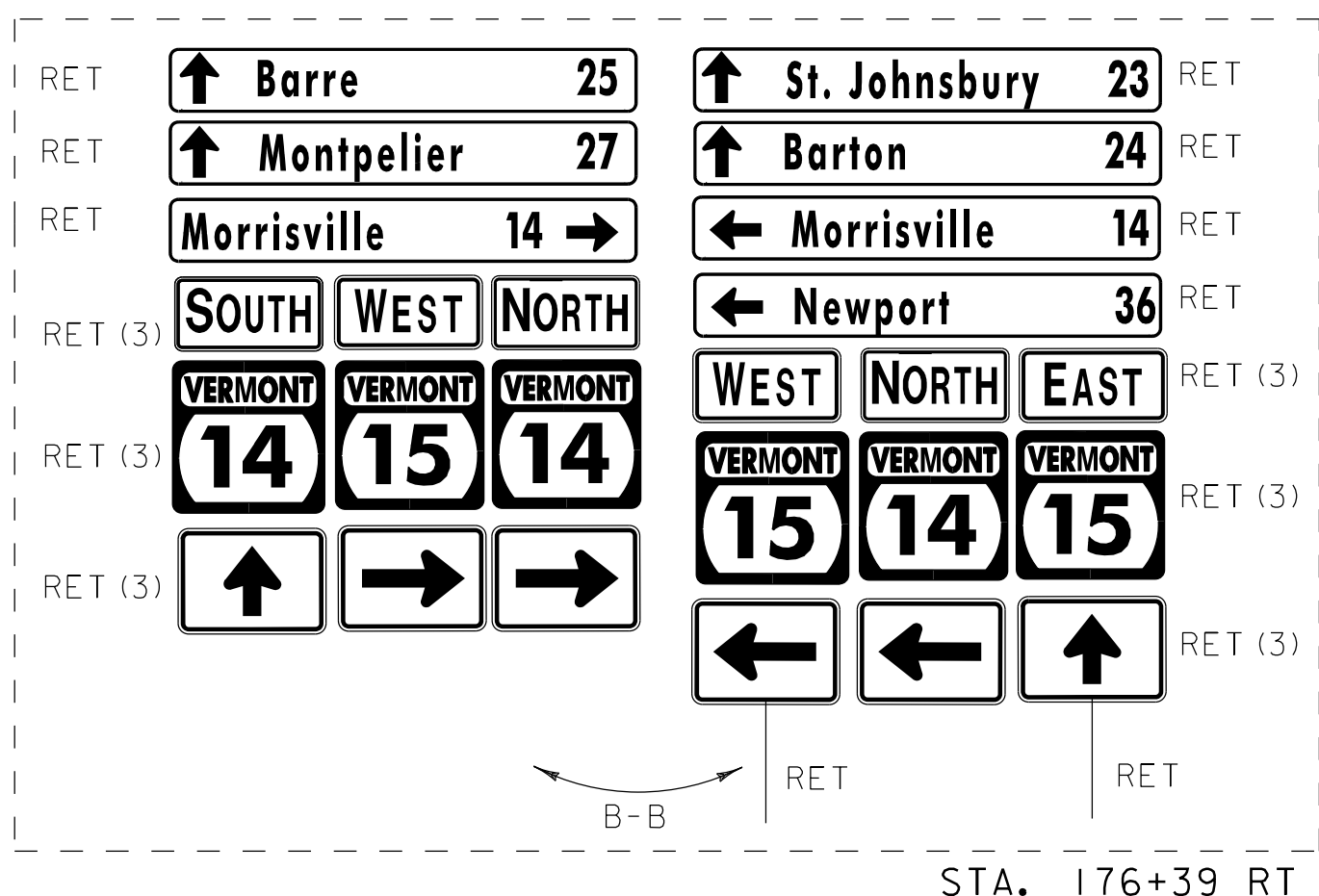
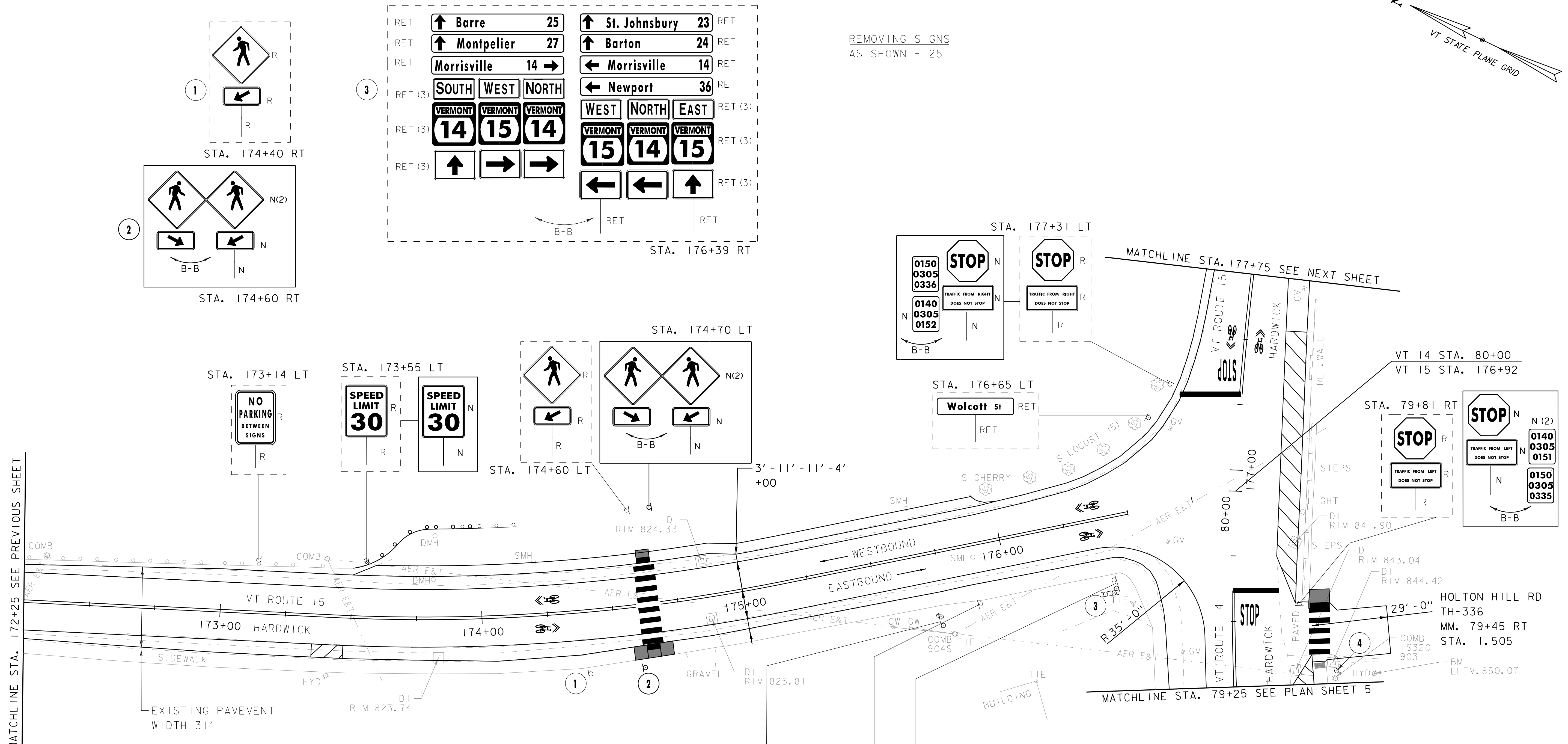


PROJECT NAME:	HARDWICK	FILE NAME:	t19v425bdr.dgn	PLOT DATE:	7/28/2021
PROJECT NUMBER:	STP PC23(I)	PROJECT LEADER:	C. LATHROP	DRAWN BY:	O. DALMER
		DESIGNED BY:	S. SOLLA	CHECKED BY:	C. LATHROP
		PROJECT LAYOUT SHEET	15	SHEET	40 OF 78



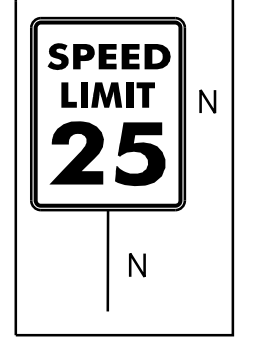
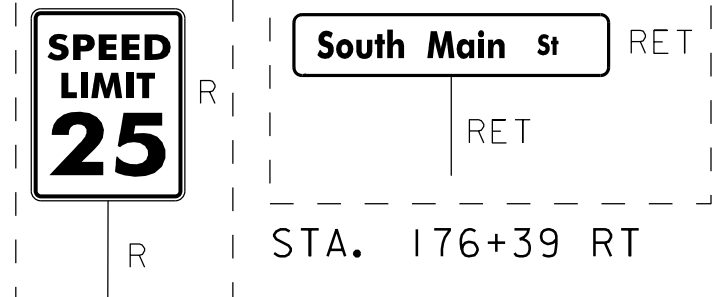
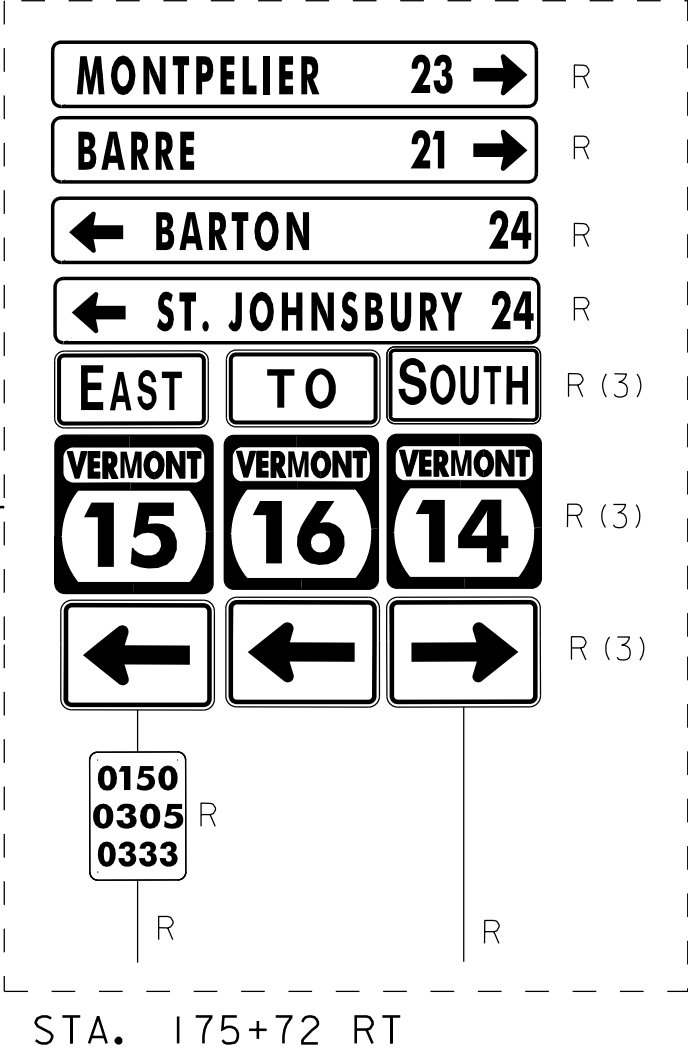
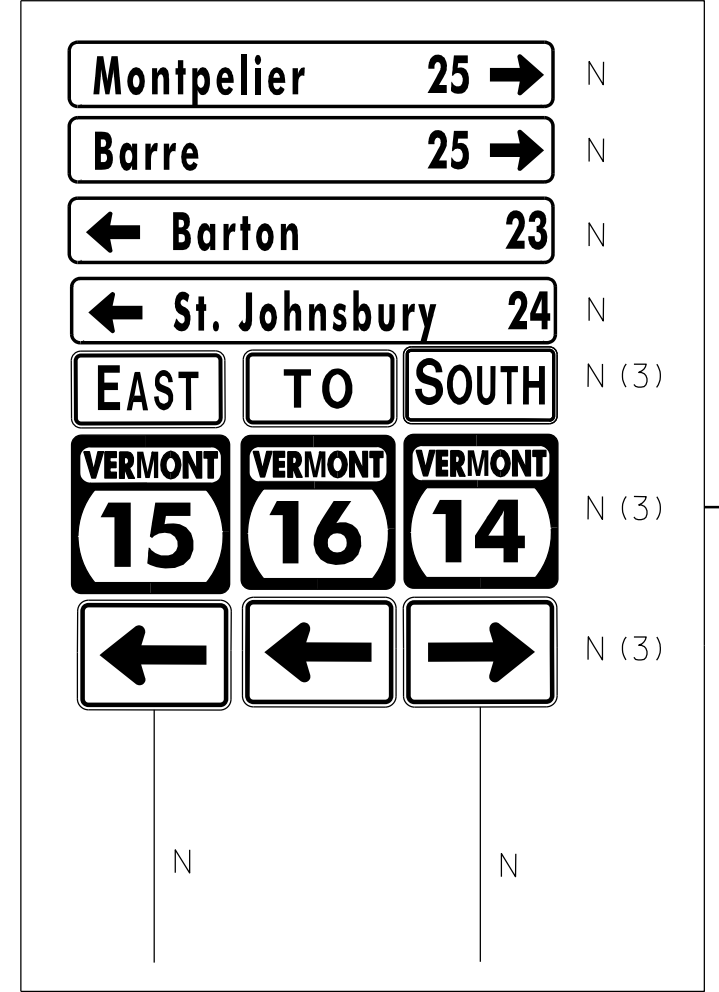
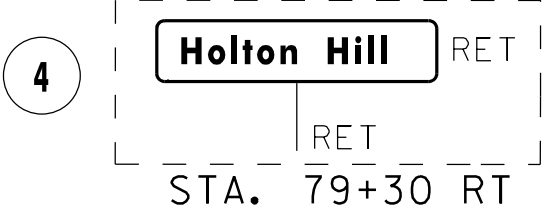


REMOVING SIGNS  
AS SHOWN - 25



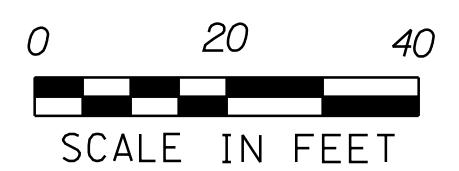
MATCHLINE STA. 172+25 SEE PREVIOUS SHEET

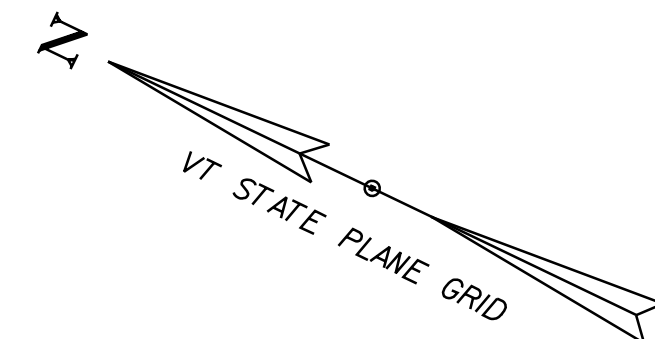
MATCHLINE STA. 79+25 SEE PLAN SHEET 5



**SIGN LEGEND**  
 R = REMOVE  
 R&RES = REMOVE AND RESET  
 RES = RESET  
 RET = RETAIN  
 N = NEW  
 B-B = BACK TO BACK  
 - - = EXISTING  
 — = NEW

PROJECT NAME: HARDWICK  
 PROJECT NUMBER: STP PC23(I)  
 FILE NAME: z19v425bdr.dgn  
 PROJECT LEADER: C. LATHROP  
 DESIGNED BY: S. SOLLA  
 PROJECT LAYOUT SHEET 16A  
 PLOT DATE: 7/28/2021  
 DRAWN BY: O. DALMER  
 CHECKED BY: C. LATHROP  
 SHEET 41 OF 78





CHANGING ELEVATION OF SEWER MANHOLES  
 STA. 175+89 RT (SMH)  
 STA. 174+21 LT (SMH)  
 STA. 175+67 LT (SMH)

CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES  
 STA. 173+82 LT (DMH)

REHAB DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I, CLASS II, CLASS III  
 STA. 79+31 RT (GRATE TYPE D)  
 STA. 79+81 RT (GRATE TYPE D)  
 STA. 173+83 RT (GRATE TYPE D)  
 STA. 174+86 LT (GRATE TYPE D)  
 STA. 174+87 RT (GRATE TYPE D)

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH  
 STA. 79+55 - STA. 79+62 RT  
 STA. 174+56 - STA. 174+71 RT  
 STA. 174+61 - STA. 174+66 LT

DETECTABLE WARNING SURFACE  
 STA. 79+56 RT (14 SF)  
 STA. 174+64 RT (10 SF)  
 STA. 174+64 LT (10 SF)

STEEL BEAM GUARDRAIL, GALVANIZED  
 STA. 173+50 - STA. 173+97 LT

ADJUST HEIGHT OF GUARDRAIL  
 STA. 172+25 - STA. 173+50 LT

REMOVAL AND DISPOSAL OF GUARDRAIL  
 STA. 173+50 - STA. 173+61 LT

REMOVAL AND DISPOSAL OF GUIDE POSTS  
 STA. 173+61 - STA. 173+97 LT

ADJUST ELEVATION OF VALVE BOX  
 STA. 79+39 LT (GV)  
 STA. 176+63 RT (GV)  
 STA. 177+14 LT (GV)  
 STA. 177+72 RT (GV)

DURABLE 4 INCH WHITE LINE, (SEE OPTION ITEMS) & TEMPORARY 4 INCH WHITE LINE, PAINT  
 (LINES WILL INCLUDE EDGE LINE BREAK AND RADII AS SHOWN)  
 STA. 79+25 - STA. 80+00 (SOLID LT)  
 STA. 79+25 - STA. 80+00 (PARKING RT INCLUDING HATCH)  
 STA. 172+25 - STA. 176+92 (SOLID LT & RT)  
 STA. 176+92 - STA. 177+75 (PARKING RT INCLUDING HATCH)  
 STA. 176+92 - STA. 177+75 (SOLID LT)

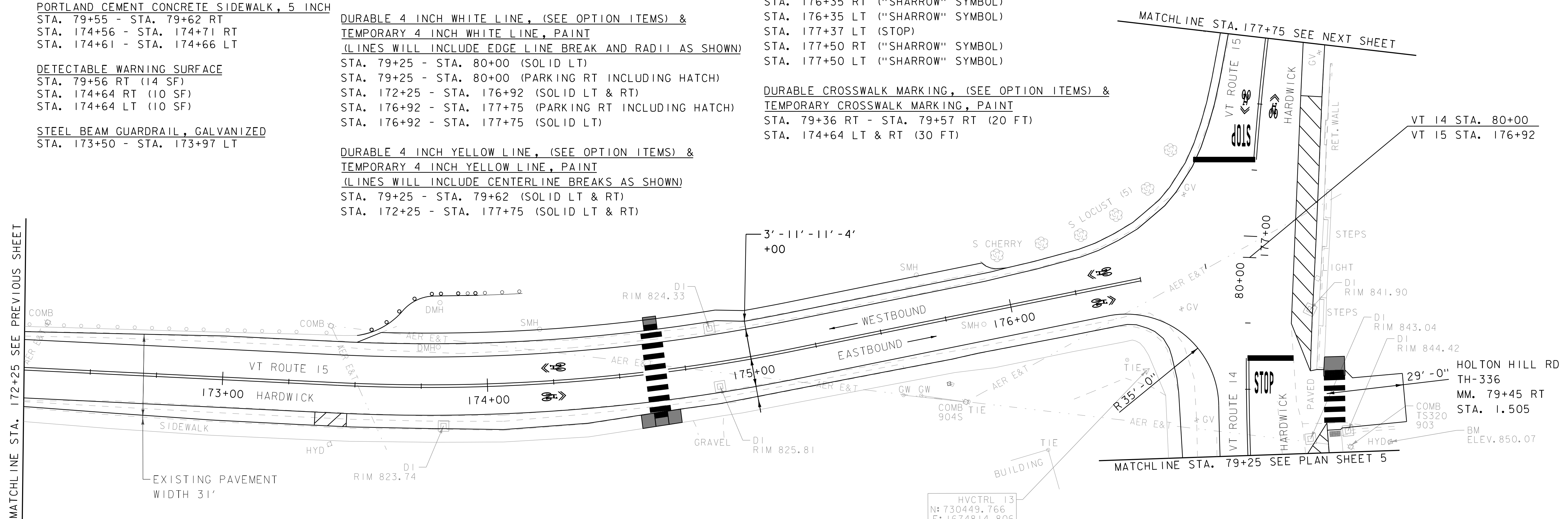
DURABLE 4 INCH YELLOW LINE, (SEE OPTION ITEMS) & TEMPORARY 4 INCH YELLOW LINE, PAINT  
 (LINES WILL INCLUDE CENTERLINE BREAKS AS SHOWN)  
 STA. 79+25 - STA. 79+62 (SOLID LT & RT)  
 STA. 172+25 - STA. 177+75 (SOLID LT & RT)

DURABLE 8 INCH WHITE LINE, (SEE OPTION ITEMS) & TEMPORARY 8 INCH WHITE LINE, PAINT  
 STA. 174+53 - STA. 174+65 (HATCH RT)

DURABLE 24 INCH STOP BAR, (SEE OPTION ITEMS) & TEMPORARY 24 INCH STOP BAR, PAINT  
 STA. 79+62 RT (17 FT)  
 STA. 177+29 LT (23 FT)

DURABLE LETTER OR SYMBOL, (SEE OPTION ITEMS) & TEMPORARY LETTER OR SYMBOL, PAINT  
 STA. 79+53 RT (STOP)  
 STA. 174+25 RT ("SHARROW" SYMBOL)  
 STA. 174+25 LT ("SHARROW" SYMBOL)  
 STA. 176+35 RT ("SHARROW" SYMBOL)  
 STA. 176+35 LT ("SHARROW" SYMBOL)  
 STA. 177+37 LT (STOP)  
 STA. 177+50 RT ("SHARROW" SYMBOL)  
 STA. 177+50 LT ("SHARROW" SYMBOL)

DURABLE CROSSWALK MARKING, (SEE OPTION ITEMS) & TEMPORARY CROSSWALK MARKING, PAINT  
 STA. 79+36 RT - STA. 79+57 RT (20 FT)  
 STA. 174+64 LT & RT (30 FT)



**SIGN LEGEND**  
 R = REMOVE  
 R&RES = REMOVE AND RESET  
 RES = RESET  
 RET = RETAIN  
 N = NEW  
 B-B = BACK TO BACK  
 - - = EXISTING  
 — = NEW

PROJECT NAME: HARDWICK  
 PROJECT NUMBER: STP PC23(I)  
 FILE NAME: z19v425bdr.dgn  
 PROJECT LEADER: C. LATHROP  
 DESIGNED BY: S. SOLLA  
 PROJECT LAYOUT SHEET 16B  
 PLOT DATE: 7/28/2021  
 DRAWN BY: O. DALMER  
 CHECKED BY: C. LATHROP  
 SHEET 42 OF 78

CHANGING ELEVATION OF DROP INLETS,  
CATCH BASINS, OR MANHOLES  
STA. 182+37 LT (DMH)

REHAB DROP INLETS, CATCH BASINS, OR  
MANHOLES, CLASS I, CLASS II, CLASS III  
STA. 178+53 RT (GRATE TYPE D)  
STA. 179+80 RT (GRATE TYPE D)  
STA. 180+62 LT (GRATE TYPE D)  
STA. 181+76 RT (GRATE TYPE D)  
STA. 182+47 LT (GRATE TYPE D)  
STA. 182+59 RT (GRATE TYPE D)  
STA. 182+84 RT (GRATE TYPE E)

CHANGING ELEVATION OF SEWER MANHOLES  
STA. 178+50 LT (SMH)  
STA. 181+72 CTR (SMH)  
STA. 182+25 LT (SMH)  
STA. 182+96 RT (SMH)

CAST-IN-PLACE CONCRETE CURB, TYPE B  
STA. 178+18 - STA. 178+34 RT  
STA. 181+45 - STA. 181+63 RT  
STA. 181+80 - STA. 182+32 RT  
STA. 182+43 - STA. 182+55 RT  
STA. 182+47 - STA. 182+57 LT

REMOVAL OF EXISTING CURB  
STA. 182+47 - STA. 182+57 LT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH  
STA. 179+67 - STA. 179+73 RT  
STA. 181+69 - STA. 181+74 LT  
STA. 182+33 - STA. 182+40 RT  
STA. 182+49 - STA. 182+54 LT

DETECTABLE WARNING SURFACE  
STA. 179+70 RT (8 SF)  
STA. 181+71 LT (10 SF)  
STA. 182+36 RT (8 SF)  
STA. 182+51 LT (10 SF)

ADJUST ELEVATION OF VALVE BOX  
STA. 178+81 RT (GV)  
STA. 179+61 RT (GV)  
STA. 180+04 RT (GV)  
STA. 180+41 RT (GV)  
STA. 180+54 LT (GV)  
STA. 181+63 RT (GV)  
STA. 181+73 RT (GV)  
STA. 181+84 RT (GV)  
STA. 181+91 RT (GV)

DURABLE 4 INCH WHITE LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH WHITE LINE, PAINT  
(LINES WILL INCLUDE EDGE LINE BREAK AND RADII AS SHOWN)  
STA. 177+75 - STA. 182+68 (SOLID LT)  
STA. 177+75 - STA. 181+50 (PARKING RT INCLUDING HATCH)  
STA. 181+96 - STA. 182+10 (HATCH LT)  
STA. 181+50 - STA. 182+92 (SOLID RT)  
STA. 182+68 - STA. 183+25 (PARKING LT INCLUDING HATCH)  
STA. 182+92 - STA. 183+25 (PARKING RT INCLUDING HATCH)

DURABLE 4 INCH YELLOW LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH YELLOW LINE, PAINT  
(LINES WILL INCLUDE CENTERLINE BREAKS AS SHOWN)  
STA. 177+75 - STA. 183+25 (SOLID LT & RT)  
STA. 182+28 LT (CENTERLINE AT TH-3)

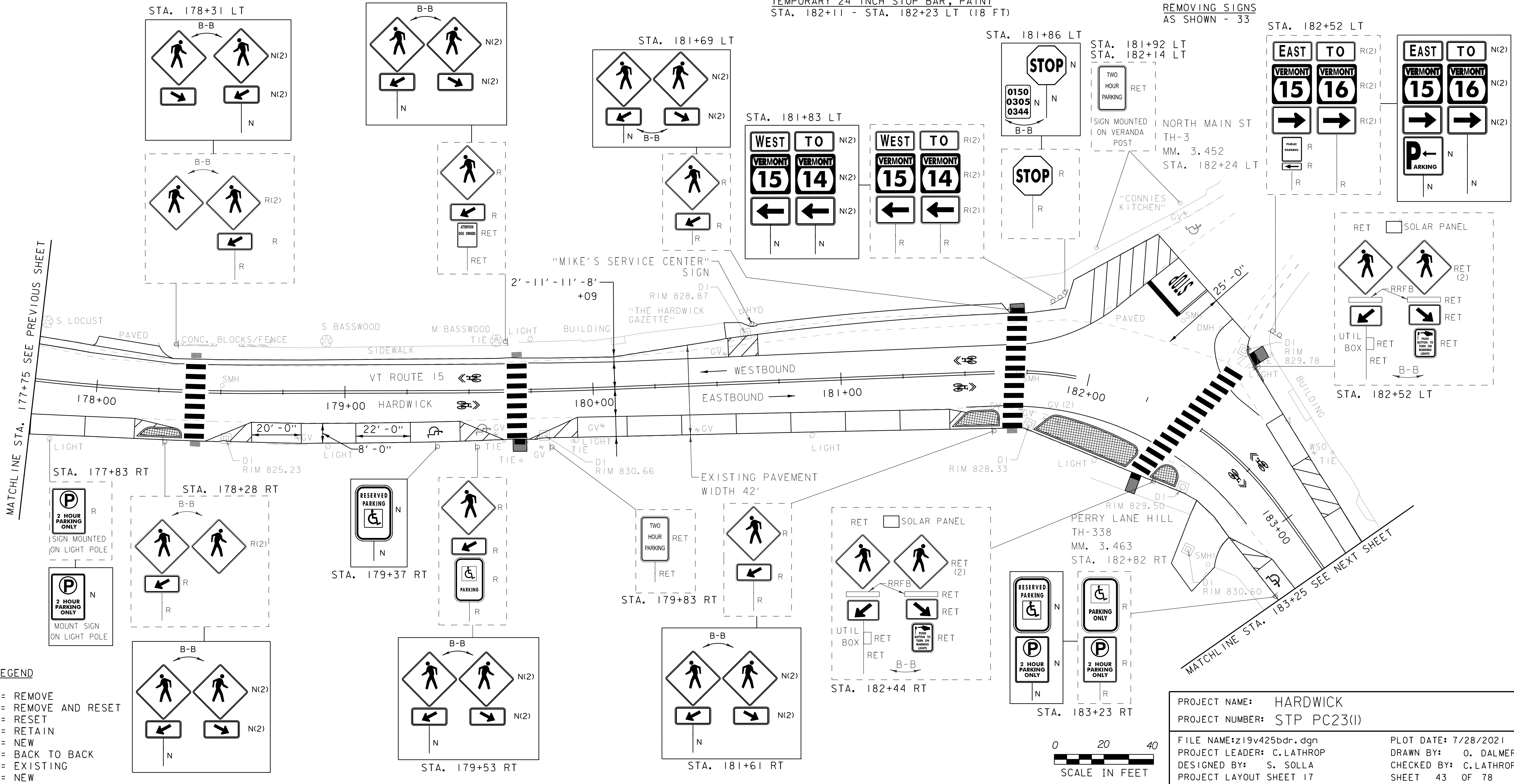
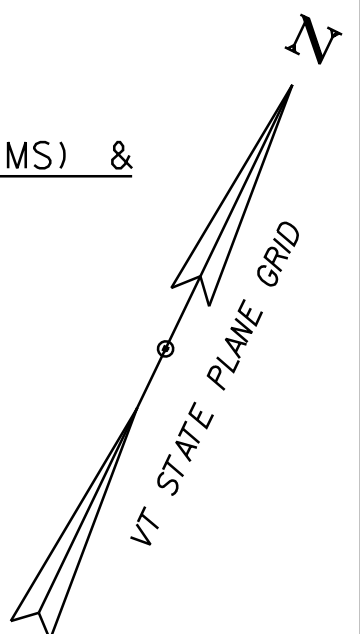
DURABLE 8 INCH WHITE LINE, (SEE OPTION ITEMS) &  
TEMPORARY 8 INCH WHITE LINE, PAINT  
STA. 180+55 - STA. 180+67 (HATCH LT)

DURABLE 24 INCH STOP BAR, (SEE OPTION ITEMS) &  
TEMPORARY 24 INCH STOP BAR, PAINT  
STA. 182+11 - STA. 182+23 LT (18 FT)

DURABLE LETTER OR SYMBOL, (SEE OPTION ITEMS) &  
TEMPORARY LETTER OR SYMBOL, PAINT  
STA. 179+36 RT (P)  
STA. 179+50 RT ("SHARROW" SYMBOL)  
STA. 179+50 LT ("SHARROW" SYMBOL)  
STA. 181+50 RT ("SHARROW" SYMBOL)  
STA. 181+50 LT ("SHARROW" SYMBOL)  
STA. 182+20 LT (STOP)  
STA. 182+75 RT ("SHARROW" SYMBOL)  
STA. 182+75 LT ("SHARROW" SYMBOL)  
STA. 183+18 RT (P)

DURABLE CROSSWALK MARKING, (SEE OPTION ITEMS) &  
TEMPORARY CROSSWALK MARKING, PAINT  
STA. 178+40 LT&RT (33 FT)  
STA. 179+69 LT&RT (33 FT)  
STA. 181+68 RT - STA. 181+72 LT (46 FT)  
STA. 182+36 RT - STA. 182+49 LT (60 FT)

REMOVING SIGNS  
AS SHOWN - 33



**SIGN LEGEND**  
 R = REMOVE  
 R&RES = REMOVE AND RESET  
 RES = RESET  
 RET = RETAIN  
 N = NEW  
 B-B = BACK TO BACK  
 - - = EXISTING  
 — = NEW

PROJECT NAME: HARDWICK  
 PROJECT NUMBER: STP PC23(I)  
 FILE NAME: z19v425bdr.dgn  
 PROJECT LEADER: C. LATHROP  
 DESIGNED BY: S. SOLLA  
 PROJECT LAYOUT SHEET 17  
 PLOT DATE: 7/28/2021  
 DRAWN BY: O. DALMER  
 CHECKED BY: C. LATHROP  
 SHEET 43 OF 78

REHAB DROP INLETS, CATCH BASINS, OR  
MANHOLES, CLASS I, CLASS II, CLASS III  
STA. 185+09 LT (GRATE TYPE D)  
STA. 185+23 RT (GRATE TYPE E)

CHANGING ELEVATION OF SEWER MANHOLES  
STA. 183+47 LT (SMH)  
STA. 185+26 LT (SMH)  
STA. 185+33 RT (SMH)

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH  
STA. 184+40 - STA. 184+46 RT  
STA. 184+47 - STA. 184+52 LT

DETECTABLE WARNING SURFACE  
STA. 184+43 RT (10 SF)  
STA. 184+50 LT (10 SF)

ADJUST ELEVATION OF VALVE BOX  
STA. 183+27 LT (GV)  
STA. 184+89 LT (GV)

DURABLE 4 INCH WHITE LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH WHITE LINE, PAINT  
(LINES WILL INCLUDE EDGE LINE BREAK AND RADII AS SHOWN)  
STA. 183+25 - STA. 183+65 (PARKING LT INCLUDING HATCH)  
STA. 183+25 - STA. 183+68 (PARKING RT INCLUDING HATCH)  
STA. 183+65 - STA. 188+25 (SOLID LT)  
STA. 183+68 - STA. 188+25 (SOLID RT)

DURABLE 4 INCH YELLOW LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH YELLOW LINE, PAINT  
(LINES WILL INCLUDE CENTERLINE BREAKS AS SHOWN)  
STA. 183+25 - STA. 188+25 (SOLID LT & RT)  
STA. 185+35 (CENTERLINE AT TH-334)

DURABLE 8 INCH WHITE LINE, (SEE OPTION ITEMS) &  
TEMPORARY 8 INCH WHITE LINE, PAINT  
STA. 186+74 - STA. 186+86 (HATCH LT)

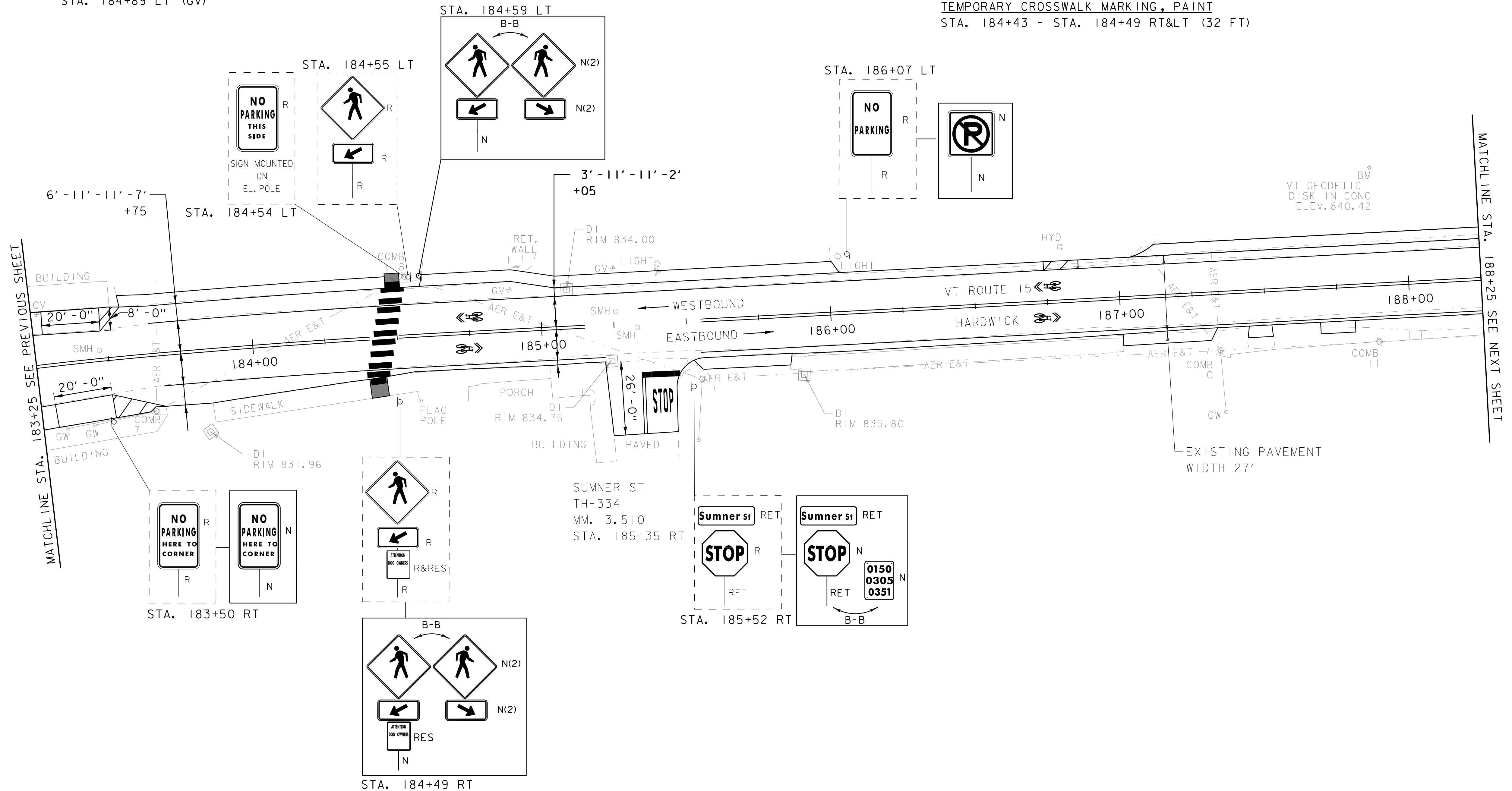
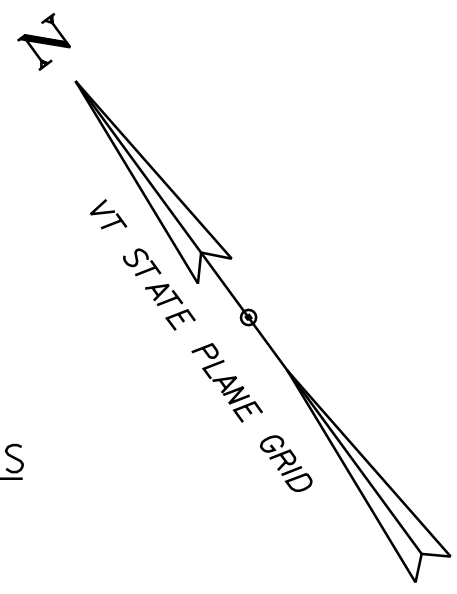
DURABLE 24 INCH STOP BAR, (SEE OPTION ITEMS) &  
TEMPORARY 24 INCH STOP BAR, PAINT  
STA. 185+34 - STA. 185+47 RT (13 FT)

DURABLE LETTER OR SYMBOL, (SEE OPTION ITEMS) &  
TEMPORARY LETTER OR SYMBOL, PAINT  
STA. 184+75 RT ("SHARROW" SYMBOL)  
STA. 184+75 LT ("SHARROW" SYMBOL)  
STA. 185+41 RT (STOP)  
STA. 186+75 RT ("SHARROW" SYMBOL)  
STA. 186+75 LT ("SHARROW" SYMBOL)

DURABLE CROSSWALK MARKING, (SEE OPTION ITEMS) &  
TEMPORARY CROSSWALK MARKING, PAINT  
STA. 184+43 - STA. 184+49 RT&LT (32 FT)

REMOVING SIGNS  
AS SHOWN - 9

RESETTING SIGNS  
AS SHOWN - 1



**SIGN LEGEND**

- R = REMOVE
- R&RES = REMOVE AND RESET
- RES = RESET
- RET = RETAIN
- N = NEW
- B-B = BACK TO BACK
- - = EXISTING
- = NEW



PROJECT NAME:	HARDWICK	FILE NAME:	t19v425bdr.dgn	PLOT DATE:	7/28/2021
PROJECT NUMBER:	STP_PC23(I)	PROJECT LEADER:	C.LATHROP	DRAWN BY:	O. DALMER
		DESIGNED BY:	S. SOLLA	CHECKED BY:	C.LATHROP
		PROJECT LAYOUT SHEET	18	SHEET	44 OF 78

REHAB DROP INLETS, CATCH BASINS, OR  
MANHOLES, CLASS I, CLASS II, CLASS III  
STA. 189+08 RT (GRATE TYPE D)

CHANGING ELEVATION OF SEWER MANHOLES  
STA. 188+77 RT (SMH)

ADJUST ELEVATION OF VALVE BOX  
STA. 188+33 LT (GV)  
STA. 188+62 RT (GV)

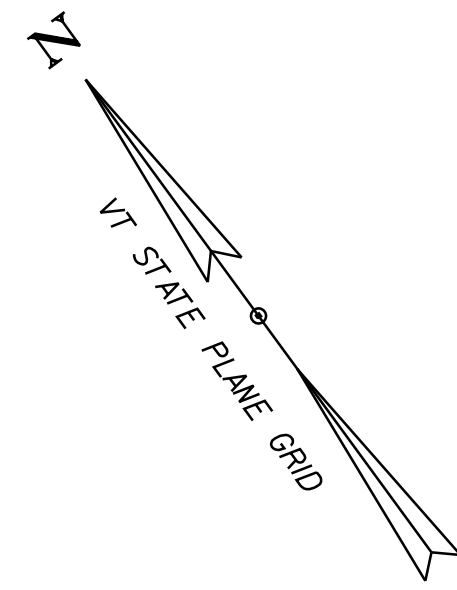
DURABLE 4 INCH WHITE LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH WHITE LINE, PAINT  
(LINES WILL INCLUDE EDGE LINE BREAK AND RADII AS SHOWN)  
STA. 188+25 - STA. 193+50 (SOLID LT & RT)

DURABLE 4 INCH YELLOW LINE, (SEE OPTION ITEMS) &  
TEMPORARY 4 INCH YELLOW LINE, PAINT  
(LINES WILL INCLUDE CENTERLINE BREAKS AS SHOWN)  
STA. 188+25 - STA. 193+50 (SOLID LT & RT)  
STA. 188+96 RT (CENTERLINE AT TH-332)

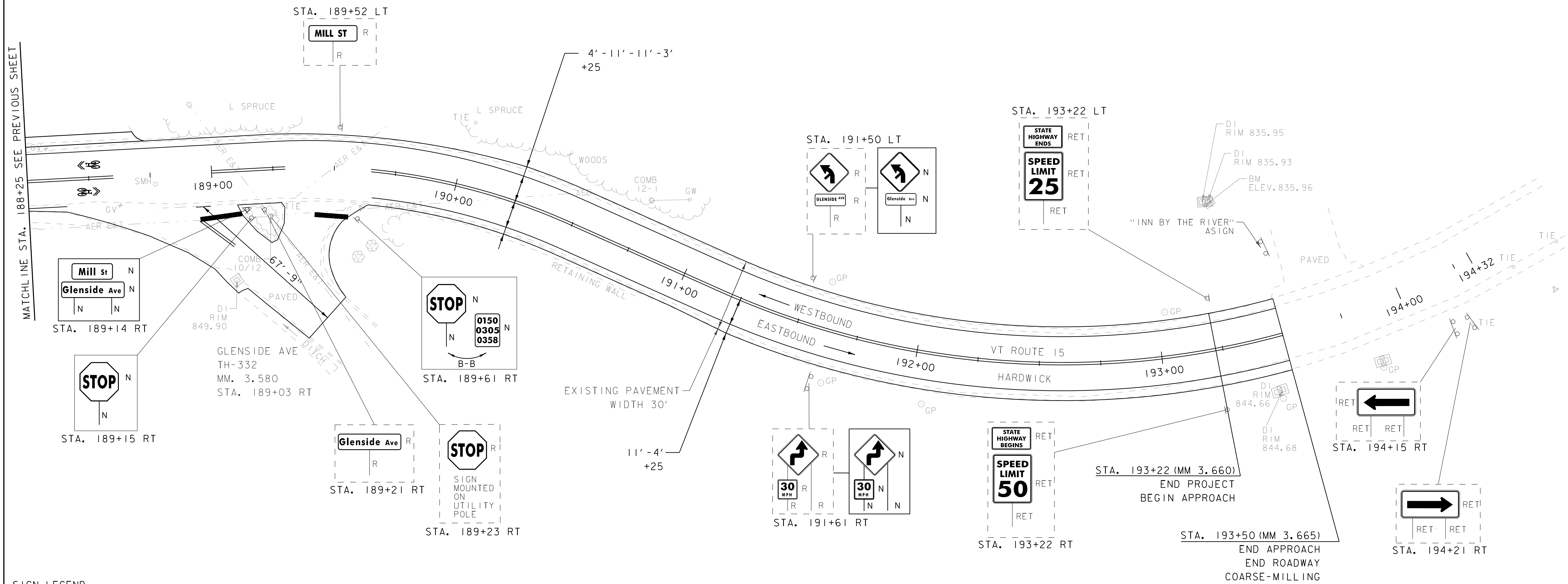
DURABLE 24 INCH STOP BAR, (SEE OPTION ITEMS) &  
TEMPORARY 24 INCH STOP BAR, PAINT  
STA. 188+94 - STA. 189+12 RT (17 FT)  
STA. 189+42 - STA. 189+57 RT (14 FT)

DURABLE LETTER OR SYMBOL, (SEE OPTION ITEMS) &  
TEMPORARY LETTER OR SYMBOL, PAINT  
STA. 188+50 RT ("SHARROW" SYMBOL)  
STA. 188+50 LT ("SHARROW" SYMBOL)

REMOVING SIGNS  
AS SHOWN - 7

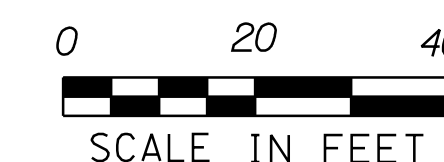


MATCHLINE STA. 188+25 SEE PREVIOUS SHEET



**SIGN LEGEND**

- R = REMOVE
- R&RES = REMOVE AND RESET
- RES = RESET
- RET = RETAIN
- N = NEW
- B-B = BACK TO BACK
- - = EXISTING
- = NEW













PROJECT NAME: HARDWICK	
PROJECT NUMBER: STP PC23(I)	
FILE NAME: z19v425bdr.dgn	PLOT DATE: 7/28/2021
PROJECT LEADER: C. LATHROP	DRAWN BY: O. DALMER
DESIGNED BY: S. SOLLA	CHECKED BY: C. LATHROP
PROJECT LAYOUT SHEET 19	SHEET 45 OF 78






















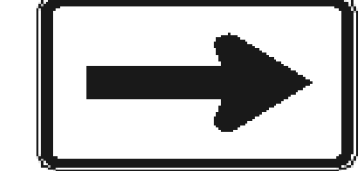
STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL			
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER
																(LB / FT)				(LB / FT)								
<b>HARDWICK</b>		<b>VT 14</b>		FYG - FLUORESCENT YELLOW-GREEN																	"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS							
		VD-700	6	10			0.42														BACK TO BACK			T-44				
STA. 68+12	LT	VD3-1	--	12		SUMMER ST			1			1																
		R1-2	30	30		YIELD			1												BACK TO BACK							
		VD-700	6	10			0.42														BACK TO BACK			T-44				
STA. 70+63	LT	VD3-1	--	12		SPRING ST			1			1																
		R1-2	30	30		YIELD			1												BACK TO BACK							
		VD-700	6	10		MM 0140,0305,0134						1																
		VD-700	6	10			0.42														BACK TO BACK			T-44				
STA. 73+15	RT	VD3-1	--	12		UPPER CHERRY ST			1			2																
		R1-1	30	30		STOP			1												BACK TO BACK							
		--	--	--		HARDWICK TRAILS			1																			
		VD-700	6	10			0.42														BACK TO BACK			T-44				
STA. 73+26	RT	W11-2	30	30	FYG		6.25						1	15							BACK TO BACK	X						
		W11-2	30	30	FYG		6.25														BACK TO BACK	X						
		W16-7PL	24	12	FYG		2.00														BACK TO BACK	X						
<b>SIGN SUMMARY SHEET</b>						SHEET TOTAL	16.18	0.00	7	0	0	1	4	0	1	0	15	0	0	0	0	PROJECT NAME: HARDWICK						
VERMONT AGENCY OF TRANSPORTATION						TOWN TOTAL	795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0	PROJECT NUMBER: STP PC 23(I)				
									EA	EA	EA	EA	EA	EA	EA	FT	FT	FT		LB	LB	LB	LB	FILE NAME: z19v425tsss.dgn				
																								PLOT DATE: 7/28/2021				
																								DRAWN BY: O. DALMER				
																								CHECKED BY: C. LATHROP				
																								TRAFFIC SIGN SUMMARY SHEET 3				
																								SHEET 48 OF 78				


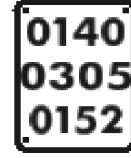















STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL			
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER
																(LB / FT)				(LB / FT)								
<b>HARDWICK</b>		<b>VT 14</b>		FYG - FLUORESCENT YELLOW-GREEN																	"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS							
		W16-7PR	24	12	FYG		2.00														BACK TO BACK	X						
STA. 73+35	LT	W11-2	30	30	FYG		6.25					1	15								BACK TO BACK	X						
		W11-2	30	30	FYG		6.25														BACK TO BACK	X						
		W16-7PL	24	12	FYG		2.00														BACK TO BACK	X						
		W16-7PR	24	12	FYG		2.00														BACK TO BACK	X						
STA. 76+15	LT	R1-1	30	30		STOP			1			1									BACK TO BACK							
		VD-700	6	10			0.42														BACK TO BACK			T-44				
STA. 77+07	RT	S1-1	30	30		SCHOOL					1	1																
		W16-7PL	24	12		DIAG. ARROW																						
		S1-1	36	36	FYG		9.00					2	30								BACK TO BACK	X						
		S1-1	36	36	FYG		9.00														BACK TO BACK	X						
		W16-7PL	24	12	FYG		2.00														BACK TO BACK	X						
		W16-7PR	24	12	FYG		2.00														BACK TO BACK	X						
STA. 77+14	LT	S1-1	30	30		SCHOOL					1	1																
		W16-7PL	24	12		DIAG. ARROW																						
<b>SIGN SUMMARY SHEET</b>						SHEET TOTAL	40.92	0.00	1	0	0	4	1	2	3	0	45	0	0	0	0							
VERMONT AGENCY OF TRANSPORTATION							SF	SF	EA	EA	EA	EA	EA	EA	EA	FT	FT	FT		LB	LB	LB	LB					
						TOWN TOTAL	795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0					
																						PROJECT NAME: HARDWICK						
																					PROJECT NUMBER: STP PC 23(I)							
																					FILE NAME: z19v425tsss.dgn	PLOT DATE: 7/28/2021						
																					PROJECT LEADER: C. LATHROP	DRAWN BY: O. DALMER						
																					DESIGNED BY: S. SOLLA	CHECKED BY: C. LATHROP						
																					TRAFFIC SIGN SUMMARY SHEET 4	SHEET 49 OF 78						




STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL			
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER
																(LB / FT)				(LB / FT)								
<b>HARDWICK</b>		<b>VT 14</b>				FYG - FLUORESCENT YELLOW-GREEN															"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS							
		S1-1	36	36	FYG		9.00						2	30							BACK TO BACK	X						
		S1-1	36	36	FYG		9.00														BACK TO BACK	X						
		W16-7PL	24	12	FYG		2.00														BACK TO BACK	X						
		W16-7PR	24	12	FYG		2.00														BACK TO BACK	X						
STA. 78+58	LT	VD3-1	--	12		TERRACE HILL RD			1			2																
		R1-1	30	30		STOP			1												BACK TO BACK							
		VD-700	6	10			0.42														BACK TO BACK			T-44				
STA. 79+81	RT	R1-1	30	30		STOP				1		1																
		--	--	--		TRAFFIC FROM LEFT DOES NOT STOP					1																	
		R1-1	30	30			6.25						1	15								X						
		CUSTOM	30	15			3.13														BACK TO BACK			SIGN DETAIL SHEET 2				
		VD-700	6	10			0.42														BACK TO BACK			T-44				
		VD-700	6	10			0.42														BACK TO BACK			T-44				
<b>SIGN SUMMARY SHEET</b>							<b>SHEET TOTAL</b>		32.64	0.00	2	0	0	2	2	1	3	0	45	0	0	0	0	0	0	0		
VERMONT AGENCY OF TRANSPORTATION							SF	SF			EA	EA	EA	EA	EA	EA	EA	FT	FT	FT		LB	LB	LB	LB			
<b>TOWN TOTAL</b>							795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0					
PROJECT NAME: HARDWICK																					PROJECT NUMBER: STP PC 23(I)							
FILE NAME: z19v425tsss.dgn												PLOT DATE: 7/28/2021																
PROJECT LEADER: C. LATHROP												DRAWN BY: O. DALMER																
DESIGNED BY: S. SOLLA												CHECKED BY: C. LATHROP																
TRAFFIC SIGN SUMMARY SHEET 5												SHEET 50 OF 78																










STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL										
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER							
																(LB / FT)				(LB / FT)															
HARDWICK			VT 15		FYG - FLUORESCENT YELLOW-GREEN															"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS															
STA. 116+36	RT	M3-1	24	12		NORTH							1			2																			
		VM1-5	24	24		VT 14							1																						
		M6-1L	21	15		LEFT ARROW							1																						
		M3-2	24	12		EAST							1																						
		VM1-5	24	24		VT 15							1																						
		M6-3	21	15		UP ARROW							1																						
		M3-3	24	12		SOUTH							1																						
		VM1-5	24	24		VT 14							1																						
		M6-3	21	15		UP ARROW							1																						
		M3-1	24	12	G/W											2		30															X		
		VM1-5	24	24		  								4.00																					E-136B
		M6-1L	21	15	G/W	  								2.19																					X
		M3-3	24	12	G/W	  								2.00																					X
		VM1-5	24	24		  								4.00																					E-136B
		M6-3	21	15	G/W									2.19																				X	
<b>SIGN SUMMARY SHEET</b>						SHEET TOTAL	16.38	0.00	0	0	0	9	0	2	2	0	0	30	0	0	0	0				PROJECT NAME: HARDWICK									
VERMONT AGENCY OF TRANSPORTATION						TOWN TOTAL	795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0			PROJECT NUMBER: STP PC 23(I)									
																										FILE NAME: z19v425tsss.dgn									
																										PLOT DATE: 7/28/2021									
																										DRAWN BY: O. DALMER									
																										CHECKED BY: C. LATHROP									
																										TRAFFIC SIGN SUMMARY SHEET 6									
																										SHEET 51 OF 78									

STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in) (LB / FT)			TUBULAR STEEL Ø (IN) (LB / FT)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL						
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75 1.88	2.00 2.42	2.50 3.35	FOUNDATION	3.00 7.60	3.50 9.00	4.00 10.80			5.00 14.60	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER			
																													SHEET TOTAL		
<b>HARDWICK</b>			<b>VT 15</b>			FYG - FLUORESCENT YELLOW-GREEN														"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS											
		M3-2	24	12	G/W		2.00																X								
		VM1-5	24	24			4.00																	E-136B							
		M6-3	21	15	G/W		2.19																X								
STA. 116+57	LT	M3-4	24	12		WEST					1	2																			
		VM1-5	24	24		VT 15					1																				
		M6-3	21	15		UP ARROW					1																				
		M3-1	24	12		NORTH					1																				
		VM1-5	24	24		VT 14					1																				
		M6-1R	21	15		RIGHT ARROW					1																				
		M3-4	24	12	G/W		2.00					2	30						#2A				X								
		VM1-5	24	24		 	4.00																	E-136B							
		M6-3	21	15	G/W	 	2.19																X								
		M3-1	24	12	G/W	 	2.00																X								
		VM1-5	24	24			4.00																	E-136B							
		M6-1R	21	15	G/W		2.19																X								
<b>SIGN SUMMARY SHEET</b>																															
VERMONT AGENCY OF TRANSPORTATION																															
SHEET TOTAL							24.57	0.00	0	0	0	6	0	2	2	0	30	0	0	0	0	0	0								
TOWN TOTAL							795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0								
																		PROJECT NAME:	HARDWICK						PLOT DATE:	7/28/2021					
																		PROJECT NUMBER:	STP PC 23(I)						DESIGNED BY:	S. SOLLA					
																		TRAFFIC SIGN SUMMARY SHEET 7							CHECKED BY:	C. LATHROP					
																									FILE NAME:	z:\9v425t\sss.dgn					
																									PROJECT LEADER:	C. LATHROP					
																									DRAWN BY:	O. DALMER					
																									SHEET	52 OF 78					

STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL			
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER
																(LB / FT)				(LB / FT)								
<b>HARDWICK</b>			<b>VT 15</b>			FY G - FLUORESCENT YELLOW-GREEN															"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS							
STA. 116+74	LT	--	--	--		FLASHING BEACON			1			1																
		R1-1	30	30		STOP			1																BACK TO BACK			
		VD-700	6	10			0.42																		BACK TO BACK	T-44		
		VD-700	6	10			0.42																		BACK TO BACK	T-44		
STA. 116+90	RT	M3-3	24	12		SOUTH					1	2																
		VM1-5	24	24		VT 14					1																	
		M6-1L	21	15		LEFT ARROW					1																	
		M3-2	24	12		EAST					1																	
		VM1-5	24	24		VT 15					1																	
		M6-1L	21	15		LEFT ARROW					1																	
		M3-4	24	12		WEST					1																	
		VM1-5	24	24		VT 15					1																	
		M6-1R	21	15		RIGHT ARROW					1																	
		M3-3	24	12	G/W		2.00					2		30							#3A			X				
		VM1-5	24	24			4.00																		E-136B			
<b>SIGN SUMMARY SHEET</b>						<b>SHEET TOTAL</b>	6.84	0.00	2	0	0	9	1	2	2	0	0	30	0	0	0	0	PROJECT NAME: HARDWICK					
						SF	SF	EA	EA	EA	EA	EA	EA	EA	EA	FT	FT	FT		LB	LB	LB	LB	PROJECT NUMBER: STP PC 23(I)				
VERMONT AGENCY OF TRANSPORTATION						<b>TOWN TOTAL</b>	795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0	FILE NAME: z19v425tsss.dgn				
																							PLOT DATE: 7/28/2021					
																							DRAWN BY: O. DALMER					
																							CHECKED BY: C. LATHROP					
																							TRAFFIC SIGN SUMMARY SHEET 8					
																							SHEET 53 OF 78					










STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL			
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER
																(LB / FT)				(LB / FT)								
<b>HARDWICK</b>			<b>VT 15</b>			FYG - FLUORESCENT YELLOW-GREEN																"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS						
		M6-1L	21	15	G/W		2.19																X					
		M3-2	24	12	G/W		2.00																X					
		VM1-5	24	24			4.00																		E-136B			
		M6-1L	21	15	G/W		2.19																X					
		M3-4	24	12	G/W		2.00																X					
		VM1-5	24	24			4.00																		E-136B			
		M6-1R	21	15	G/W		2.19																X					
																												
																												
																												
STA. 118+23	RT	VD-701	6	10		BRIDGE 66, VT 15					1	1																
		VD-701	6	10			0.42						1	8											T-42			
STA. 119+50	LT	VD-701	6	10		BRIDGE 66, VT 15					1	1																
		VD-701	6	10			0.42						1	8											T-42			
STA. 119+77	LT	VD1-1A	72	12		^ MORRISVILLE 13					1	2																
		VD1-1A	72	12		NEWPORT 35 --->						1																
		VD1-1A	72	12			6.00						2	30											T-93			
		VD1-1A	72	12			6.00																		T-93			
<b>SIGN SUMMARY SHEET</b>						SHEET TOTAL	31.41	0.00	0	0	0	4	0	4	4	16	30	0	0	0	0	0	PROJECT NAME: HARDWICK					
VERMONT AGENCY OF TRANSPORTATION						TOWN TOTAL	795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0	PROJECT NUMBER: STP PC 23(I)				
																							FILE NAME: z19v425tsss.dgn					
																							PLOT DATE: 7/28/2021					
																							DRAWN BY: O. DALMER					
																							CHECKED BY: C. LATHROP					
																							TRAFFIC SIGN SUMMARY SHEET 9					
																							SHEET 54 OF 78					

STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL			
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER
																(LB / FT)				(LB / FT)								
<b>HARDWICK VT 15</b>						FYG - FLUORESCENT YELLOW-GREEN																"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS						
STA. 119+94	RT	M3-3	24	12		SOUTH					1	2																
		VM1-5	24	24		VT 14					1																	
		M3-2	24	12		EAST					1																	
		VM1-5	24	24		VT 15					1																	
		M3-3	24	12	G/W		2.00						2	30							#1A		X					
		VM1-5	24	24			4.00																		E-136B			
		M3-2	24	12	G/W		2.00																	X				
		VM1-5	24	24			4.00																		E-136B			
STA. 120+48	RT	VD3-1	--	6		WRIGHT FARM RD					1	1																
		VD3-1	66	12			8.25						2	30											SIGN DETAIL SHEET 1			
STA. 121+74	LT	M2-1	21	15		JCT					1	1																
		VM1-5	24	24		VT 14					1																	
		M2-1	21	15	G/W		2.19						1	15										X				
		VM1-5	24	24			4.00																		E-136B			
STA. 121+76	RT	R2-1	24	30		SPEED LIMIT 35					1	1																
<b>SIGN SUMMARY SHEET</b>						SHEET TOTAL	26.44	0.00	0	0	0	8	0	5	5	0	75	0	0	0	0		PROJECT NAME: HARDWICK					
VERMONT AGENCY OF TRANSPORTATION						TOWN TOTAL	795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0	PROJECT NUMBER: STP PC 23(I)				
																							FILE NAME: z19v425tsss.dgn					
																							PLOT DATE: 7/28/2021					
																							DRAWN BY: O. DALMER					
																							CHECKED BY: C. LATHROP					
																							TRAFFIC SIGN SUMMARY SHEET 10					
																							SHEET 55 OF 78					


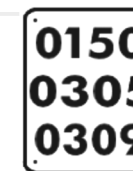





STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL			
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER
																(LB / FT)				(LB / FT)								
<b>HARDWICK</b>		<b>VT 15</b>		FYG - FLUORESCENT YELLOW-GREEN																	"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS							
		R2-1	24	30			5.00						1	15								X						
STA. 126+72	LT	VD-700	6	10			0.42						1	8										T-44				
STA. 132+58	RT	VD3-1	72	12			9.00						2	30							DOUBLE SIDED SIGN, AREA HAS BEEN MULTIPLIED BY 1.5			SIGN DETAIL SHEET 1				
STA. 133+34	RT	--	--	--		GRAND ARMY OF THE REPUBLIC HIGHWAY					1	1																
		CUSTOM	30	24			5.00						1	15										SIGN DETAIL SHEET 2				
STA. 134+65	RT	VD3-1	--	--		JUNCTION RD			1	1	1	1	1	15							RESET SIGN ON NEW POST							
		R1-1	30	30		STOP					1																	
		R1-1	30	30			6.25														BACK TO BACK		X					
		VD-700	6	10			0.42														BACK TO BACK			T-44				
STA. 140+54	RT	R1-1	30	30		STOP			1			1									BACK TO BACK							
		VD-700	6	10			0.42														BACK TO BACK			T-44				
STA. 140+88	RT	VD3-1	72	12			9.00						2	30							DOUBLE SIDED SIGN, AREA HAS BEEN MULTIPLIED BY 1.5			SIGN DETAIL SHEET 1				
STA. 142+33	RT	VD3-1	42	12			5.25						1	15							DOUBLE SIDED SIGN, AREA HAS BEEN MULTIPLIED BY 1.5			SIGN DETAIL SHEET 1				
STA. 143+19	RT	VD3-1	--	12		ROCHESTER ST			1			1																
		R1-1	30	30		STOP			1												BACK TO BACK							
<b>SIGN SUMMARY SHEET</b>						SHEET TOTAL	40.76	0.00	3	1	1	3	2	2	9	8	120	0	0	0	0	0	0	0	0			
VERMONT AGENCY OF TRANSPORTATION							SF	SF	EA	EA	EA	EA	EA	EA	EA	FT	FT	FT		LB	LB	LB	LB					
						TOWN TOTAL	795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0					
																						PROJECT NAME: HARDWICK						
																						PROJECT NUMBER: STP PC 23(I)						
																						FILE NAME: z19v425tsss.dgn	PLOT DATE: 7/28/2021					
																						PROJECT LEADER: C. LATHROP	DRAWN BY: O. DALMER					
																						DESIGNED BY: S. SOLLA	CHECKED BY: C. LATHROP					
																						TRAFFIC SIGN SUMMARY SHEET II	SHEET 56 OF 78					









STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL			
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER
																(LB / FT)				(LB / FT)								
<b>HARDWICK</b>		<b>VT 15</b>		FYG - FLUORESCENT YELLOW-GREEN																	"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS							
		VD-700	6	10			0.42														BACK TO BACK			T-44				
STA. 143+61	LT	R1-1	30	30		STOP					1	1																
		R1-1	30	30			6.25						1	15								BACK TO BACK	X					
		VD-700	6	10			0.42															BACK TO BACK			T-44			
STA. 143+95	RT	W11-2	30	30		PEDESTRIAN					1	1																
		W16-3P	30	24		NEXT 1 MILE							1															
		W11-2	30	30	FYG		6.25						1	15								VEGETATION CLEARANCE REQUIRED	X					
		W16-3P	30	24	FYG		5.00																X					
STA. 147+10	RT	R1-1	30	30		STOP					1	1																
		R1-1	30	30			6.25						1	15								BACK TO BACK	X					
		VD-700	6	10			0.42															BACK TO BACK			T-44			
STA. 148+75	RT	VD3-1	--	--		HILLSIDE ST					1	1																
		R1-1	30	30		STOP							1															
		R1-1	30	30			6.25															BACK TO BACK	X					
		VD-700	6	10			0.42															BACK TO BACK			T-44			
<b>SIGN SUMMARY SHEET</b>						SHEET TOTAL	31.68	0.00	1	0	0	5	1	3	3	0	45	0	0	0	0		PROJECT NAME: HARDWICK					
VERMONT AGENCY OF TRANSPORTATION						TOWN TOTAL	795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0	PROJECT NUMBER: STP PC 23(I)				
							SF	SF	EA	EA	EA	EA	EA	EA	EA	FT	FT	FT		LB	LB	LB	LB	FILE NAME: zI9v425tsss.dgn				
																							PLOT DATE: 7/28/2021					
																							DRAWN BY: O. DALMER					
																							CHECKED BY: C. LATHROP					
																							TRAFFIC SIGN SUMMARY SHEET 12					
																							SHEET 57 OF 78					

STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL			
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER
																(LB / FT)				(LB / FT)								
<b>HARDWICK</b>		<b>VT 15</b>				FYG - FLUORESCENT YELLOW-GREEN																"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS						
STA. 152+77	LT	W11-2	30	30		PEDESTRIAN					1	1																
		W16-7PL	24	12		DIAG ARROW LEFT					1																	
		W11-2	30	30	FYG		6.25						1	15								BACK TO BACK	X					
		W11-2	30	30	FYG		6.25															BACK TO BACK	X					
		W16-7PL	24	12	FYG		2.00															BACK TO BACK	X					
		W16-7PR	24	12	FYG		2.00															BACK TO BACK	X					
STA. 152+77	RT	W11-2	30	30		PEDESTRIAN					1	1																
		W16-7PL	24	12		DIAG ARROW LEFT					1																	
		W11-2	30	30	FYG		6.25						1	15								BACK TO BACK	X					
		W11-2	30	30	FYG		6.25															BACK TO BACK	X					
		W16-7PL	24	12	FYG		2.00															BACK TO BACK	X					
		W16-7PR	24	12	FYG		2.00															BACK TO BACK	X					
STA. 152+77	RT	VD3-1	--	12		UNION ST					1	1	1									RESET SIGN ON NEW POST						
		R1-1	30	30		STOP						1																
		R1-1	30	30			6.25						1	15								BACK TO BACK	X					
<b>SIGN SUMMARY SHEET</b>						SHEET TOTAL	39.25	0.00	0	1	1	6	0	3	3	0	45	0	0	0	0		PROJECT NAME: HARDWICK					
VERMONT AGENCY OF TRANSPORTATION						TOWN TOTAL	795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0	PROJECT NUMBER: STP PC 23(I)				
																							FILE NAME: z19v425tsss.dgn					
																							PLOT DATE: 7/28/2021					
																							DRAWN BY: O. DALMER					
																							CHECKED BY: C. LATHROP					
																							TRAFFIC SIGN SUMMARY SHEET 13					
																							SHEET 58 OF 78					







STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL			
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER
																(LB / FT)				(LB / FT)								
<b>HARDWICK</b>		<b>VT 15</b>		FYG - FLUORESCENT YELLOW-GREEN																"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS								
		VD-700	6	10			0.42													BACK TO BACK			T-44					
STA. 153+81	LT	VD3-1	--	6	SAWMILL LANE						1	1																
		VD3-1	60	12		7.50						2	30							DOUBLE SIDED SIGN, AREA HAS BEEN MULTIPLIED BY 1.5			SIGN DETAIL SHEET 1					
STA. 156+15	RT	W11-8	30	30	EMERGENCY VEHICLE						1	1																
		W11-8	30	30		6.25						1	15									X						
STA. 157+10	RT	VD-701	6	10		0.42						1	8										T-42					
STA. 157+18	RT	D4-2	30	36	PARK-N-RIDE						1	1																
		D4-2	30	36		7.50						1	15									X						
STA. 157+95	LT	VD-701	6	10		0.42						1	8										T-42					
STA. 158+09	RT	--	--	--	POST ONLY						1	1								POST ONLY POST REMOVAL WILL BE PAID AS A SIGN REMOVAL								
		D4-2	30	36		7.50						1	15							BACK TO BACK		X						
		D4-2	30	36		7.50														BACK TO BACK		X						
STA. 158+49	LT	R2-1	24	30	SPEED LIMIT 30						1	1																
		R2-1	24	30		5.00						1	15									X						
		VD-700	6	10		0.42																	T-44					
<b>SIGN SUMMARY SHEET</b>						<b>SHEET TOTAL</b>		42.93	0.00	0	0	0	5	0	5	8	16	90	0	0	0	0	0					
VERMONT AGENCY OF TRANSPORTATION						SF	SF			EA	EA	EA	EA	EA	EA	EA	FT	FT	FT		LB	LB	LB	LB				
<b>TOWN TOTAL</b>						795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0						
						PROJECT NAME: <b>HARDWICK</b>																PROJECT NUMBER: <b>STP PC 23(I)</b>						
						FILE NAME: zI9v425tsss.dgn																PLOT DATE: 7/28/2021						
						PROJECT LEADER: C. LATHROP																DRAWN BY: O. DALMER						
						DESIGNED BY: S. SOLLA																CHECKED BY: C. LATHROP						
						TRAFFIC SIGN SUMMARY SHEET 14																SHEET 59 OF 78						

STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL					
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER		
																(LB / FT)				(LB / FT)										
<b>HARDWICK</b>		<b>VT 15</b>		FYG - FLUORESCENT YELLOW-GREEN																	"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS									
STA. 160+60	LT	D4-2	30	36		PARK-N-RIDE						1	1																	
		D4-2	30	36			7.50							1	15							X								
STA. 162+81	RT	VD3-1	--	12		GRANITE ST																			RESET SIGN ON NEW POST					
STA. 163+04	LT	R1-1	30	30		STOP					1			1															T-44	
		VD-700	6	10			0.42																							
STA. 164+00	LT	W11-8	30	30		EMERGENCY VEHICLE								1																
		W11-8	30	30			6.25							1	15								X							
STA. 165+66	LT	W11-2	30	30	FYG		6.25							1	15											BACK TO BACK			X	
		W11-2	30	30	FYG		6.25																			BACK TO BACK			X	
		W16-7PL	24	12	FYG		2.00																			BACK TO BACK			X	
		W16-7PR	24	12	FYG		2.00																			BACK TO BACK			X	
STA. 165+77	LT	VD3-1	--	--		WEST CHURCH ST								1																
		R1-1	30	30		STOP								1												BACK TO BACK				
		VD-700	6	10			0.42																			BACK TO BACK				T-44
STA. 165+77	RT	VD3-1	--	12		COTTAGE ST																				RESET SIGN ON NEW POST				
<b>SIGN SUMMARY SHEET</b>						SHEET TOTAL	31.09	0.00	3	2	1	4	2	4	4	0	60	0	0	0	0	0	0	0	0	0	PROJECT NAME: HARDWICK			
							SF	SF	EA	EA	EA	EA	EA	EA	EA	FT	FT	FT		LB	LB	LB	LB				PROJECT NUMBER: STP PC 23(I)			
VERMONT AGENCY OF TRANSPORTATION						TOWN TOTAL	795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0				FILE NAME: z19v425tsss.dgn			
																										PLOT DATE: 7/28/2021				
																										DRAWN BY: O. DALMER				
																										CHECKED BY: C. LATHROP				
																										TRAFFIC SIGN SUMMARY SHEET 15				
																										SHEET 60 OF 78				




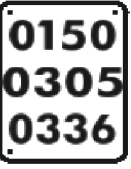

STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL			
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER
																(LB / FT)				(LB / FT)								
<b>HARDWICK</b>		<b>VT 15</b>	FYG - FLUORESCENT YELLOW-GREEN																			"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS						
		W11-2	30	30		PEDESTRIAN						1										BACK TO BACK						
		W11-2	30	30		PEDESTRIAN						1										BACK TO BACK						
		W16-7PL	24	12		DIAG ARROW LEFT						1										BACK TO BACK						
		W11-2	30	30	FYG		6.25					1	15									BACK TO BACK	X					
		W11-2	30	30	FYG		6.25					1	15									BACK TO BACK	X					
		W16-7PL	24	12	FYG		2.00					1	15									BACK TO BACK	X					
		W16-7PR	24	12	FYG		2.00					1	15									BACK TO BACK	X					
STA. 165+90	RT	VD3-1	--	12		COTTAGE ST						1	15									RESET SIGN ON NEW POST						
STA. 166+09	LT	W11-2	30	30		PEDESTRIAN						1	15															
STA. 166+23	RT	R1-1	30	30		STOP						1	15									SIGN MOUNTED ON ELECTRIC POLE						
STA. 166+23	RT	R1-1	30	30			6.25					1	15									LOCATE STOP SIGN IN FRONT OF ELECTRIC POLE	X					
STA. 166+76	LT	R2-1	24	30		SPEED LIMIT 30						1	15															
		R2-1	24	30			5.00					1	15											X				
STA. 168+96	RT	VD3-1	--	12		ELM ST						1	15															
		R1-1	30	30		STOP						1	15															
<b>SIGN SUMMARY SHEET</b>						SHEET TOTAL	27.75	0.00	1	0	1	7	1	2	4	0	60	0	0	0	0	0	PROJECT NAME: HARDWICK					
VERMONT AGENCY OF TRANSPORTATION						TOWN TOTAL	795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0	PROJECT NUMBER: STP PC 23(I)				
							SF	SF	EA	EA	EA	EA	EA	EA	EA	FT	FT	FT		LB	LB	LB	LB	FILE NAME: z19v425tsss.dgn				
																							PLOT DATE: 7/28/2021					
																							DRAWN BY: O. DALMER					
																							CHECKED BY: C. LATHROP					
																							TRAFFIC SIGN SUMMARY SHEET 16					
																							SHEET 61 OF 78					










STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL			
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER
																(LB / FT)				(LB / FT)								
<b>HARDWICK</b>		<b>VT 15</b>		FYG - FLUORESCENT YELLOW-GREEN																	"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS							
		R1-1	30	30			6.25														BACK TO BACK	X						
		VD-700	6	10			0.42														BACK TO BACK			T-44				
STA. 169+93	RT	--	--	--		SLOW SCHOOL ZONE					1	1																
		S1-1	36	36	FYG		9.00						2	30									X					
		W16-6PR	24	18	FYG		3.00																X					
STA. 171+30	LT	W2-4	30	30		T-INTERSECTION					1	1																
STA. 171+42	LT	R8-3	24	24		NO PARKING					1	1																
		R8-3	24	24			4.00						1	15									X					
STA. 171+50	RT	W1-1ML	30	30			6.25						1	15									X					
STA. 173+14	LT	R8-2M	24	30		NO PARKING BETWEEN SIGNS					1	1																
STA. 173+55	LT	R2-1	24	30		SPEED LIMIT 30					1	1																
		R2-1	24	30			5.00						1	15									X					
STA. 174+40	RT	W11-2	30	30		PEDESTRIAN					1	1																
		W16-7PL	24	12		DIAG ARROW LEFT							1															
STA. 174+60	RT	W11-2	30	30	FYG		6.25						1	15							BACK TO BACK	X						
<b>SIGN SUMMARY SHEET</b>						SHEET TOTAL	40.17	0.00	0	0	0	7	0	6	6	0	90	0	0	0	0	PROJECT NAME: HARDWICK						
VERMONT AGENCY OF TRANSPORTATION						TOWN TOTAL	795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0	PROJECT NUMBER: STP PC 23(I)				
																						FILE NAME: z19v425tsss.dgn						
																						PLOT DATE: 7/28/2021						
																						DRAWN BY: O. DALMER						
																						CHECKED BY: C. LATHROP						
																						TRAFFIC SIGN SUMMARY SHEET 17						
																						SHEET 62 OF 78						










STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL			
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER
																(LB / FT)				(LB / FT)								
<b>HARDWICK</b>		<b>VT 15</b>		FYG - FLUORESCENT YELLOW-GREEN																	"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS							
		W11-2	30	30	FYG		6.25														BACK TO BACK	X						
		W16-7PL	24	12	FYG		2.00														BACK TO BACK	X						
		W16-7PR	24	12	FYG		2.00														BACK TO BACK	X						
STA. 174+60	LT	W11-2	30	30		PEDESTRIAN					1	1																
		W16-7PL	24	12		DIAG ARROW LEFT					1																	
STA. 174+70	LT	W11-2	30	30	FYG		6.25						1	15							BACK TO BACK	X						
		W11-2	30	30	FYG		6.25														BACK TO BACK	X						
		W16-7PL	24	12	FYG		2.00														BACK TO BACK	X						
		W16-7PR	24	12	FYG		2.00														BACK TO BACK	X						
STA. 175+72	RT	VD1-1A	72	12		MONTPELIER 23 --->					1	2																
		VD1-1A	72	12		BARRE 21 ---->					1																	
		VD1-1A	72	12		<--- BARTON 24					1																	
		VD1-1A	72	12		<--- ST. JOHNSBURY 24					1																	
		M3-2	24	12		EAST					1																	
		VM1-5	24	24		VT 15					1																	
<b>SIGN SUMMARY SHEET</b>						SHEET TOTAL	26.75	0.00	0	0	0	8	0	3	1	0	15	0	0	0	0							
VERMONT AGENCY OF TRANSPORTATION							SF	SF	EA	EA	EA	EA	EA	EA	EA	FT	FT	FT		LB	LB	LB	LB					
						TOWN TOTAL	795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0					
PROJECT NAME: HARDWICK																					PROJECT NUMBER: STP PC 23(I)							
FILE NAME: zI9v425tsss.dgn												PLOT DATE: 7/28/2021																
PROJECT LEADER: C. LATHROP												DRAWN BY: O. DALMER																
DESIGNED BY: S. SOLLA												CHECKED BY: C. LATHROP																
TRAFFIC SIGN SUMMARY SHEET 18												SHEET 63 OF 78																









STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL			
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER
																(LB / FT)				(LB / FT)								
<b>HARDWICK</b>		<b>VT 15</b>				FY G - FLUORESCENT YELLOW-GREEN																"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS						
		M6-1L	21	15		LEFT ARROW																						
		M4-5	24	12		TO																						
		VM1-5	24	24		VT 16																						
		M6-1L	21	15		LEFT ARROW																						
		M3-3	24	12		SOUTH																						
		VM1-5	24	24		VT 14																						
		M6-1R	21	15		RIGHT ARROW																						
		VD-700	6	10		MM 01050, 0305, 0333																						
		VD1-1A	72	12			6.00								2		324								T-93			
		VD1-1A	72	12			6.00																			T-93		
		VD1-1A	72	12			6.00																			T-93		
		VD1-1A	72	12			6.00																			T-93		
		M3-2	24	12	G/W		2.00																X					
		VM1-5	24	24			4.00																			E-136B		
		M6-1L	21	15	G/W		2.19																	X				
<b>SIGN SUMMARY SHEET</b>						SHEET TOTAL	32.19	0.00	0	0	0	8	0	0	0	0	0	0	0	2	0	0	324	0	PROJECT NAME: HARDWICK PROJECT NUMBER: STP PC 23(I)			
VERMONT AGENCY OF TRANSPORTATION						TOWN TOTAL	795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0	FILE NAME: z19v425tsss.dgn PROJECT LEADER: C. LATHROP DESIGNED BY: S. SOLLA TRAFFIC SIGN SUMMARY SHEET 19				
																									PLOT DATE: 7/28/2021 DRAWN BY: O. DALMER CHECKED BY: C. LATHROP SHEET 64 OF 78			



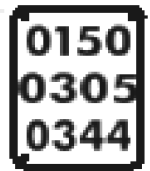


STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL					
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER		
																(LB / FT)				(LB / FT)										
<b>HARDWICK</b>		<b>VT 15</b>				FY G - FLUORESCENT YELLOW-GREEN																"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS								
		M4-5	24	12	G/W		2.00																X							
		VM1-5	24	24			4.00																		E-136B					
		M6-1L	21	15	G/W		2.19																X							
		M3-3	24	12	G/W		2.00																X							
		VM1-5	24	24			4.00																		E-136B					
		M6-1R	21	15	G/W		2.19																X							
STA. 175+89	RT	R2-1	24	30		SPEED LIMIT 25					1	1																		
		R2-1	24	30			5.00						1	15									X							
STA. 177+31	LT	R1-1	30	30		STOP					1	1																		
		--	--	--		TRAFFIC FROM LEFT DOES NOT STOP							1																	
		R1-1	30	30			6.25						1	15									X							
		CUSTOM	30	15			3.13																		SIGN DETAIL SHEET 2					
		VD-700	6	10			0.42																		T-44					
		VD-700	6	10			0.42																		T-44					
STA. 177+83	RT	R7-21M	12	18		2 HOUR PARKING ONLY					1														SIGN MOUNTED ON LIGHT POLE					
<b>SIGN SUMMARY SHEET</b>						<b>SHEET TOTAL</b>	31.60	0.00	0	0	0	4	0	2	2	0	30	0	0	0	0									
VERMONT AGENCY OF TRANSPORTATION							SF	SF	EA	EA	EA	EA	EA	EA	EA	FT	FT	FT		LB	LB	LB	LB							
						<b>TOWN TOTAL</b>	795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0							
																										PROJECT NAME: HARDWICK PROJECT NUMBER: STP PC 23(I) FILE NAME: z19v425tsss.dgn PROJECT LEADER: C. LATHROP DESIGNED BY: S. SOLLA TRAFFIC SIGN SUMMARY SHEET 20				PLOT DATE: 7/28/2021 DRAWN BY: O. DALMER CHECKED BY: C. LATHROP SHEET 65 OF 78

STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL			
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER
																(LB / FT)				(LB / FT)								
<b>HARDWICK</b>		<b>VT 15</b>		FYG - FLUORESCENT YELLOW-GREEN																"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS								
		R7-21M	12	18			1.50															MOUNT SIGN ON LIGHT POLE	X					
STA. 178+28	RT	W11-2	30	30		PEDESTRIAN					1	1										BACK TO BACK						
		W11-2	30	30		PEDESTRIAN					1											BACK TO BACK						
		W16-7PL	24	12		LEFT ARROW																BACK TO BACK						
		W11-2	30	30	FYG		6.25						1	15								BACK TO BACK	X					
		W11-2	30	30	FYG		6.25															BACK TO BACK	X					
		W16-7PL	24	12	FYG		2.00															BACK TO BACK	X					
		W16-7PR	24	12	FYG		2.00															BACK TO BACK	X					
STA. 178+31	LT	W11-2	30	30		PEDESTRIAN					1	1										BACK TO BACK						
		W11-2	30	30		PEDESTRIAN					1											BACK TO BACK						
		W16-7PL	24	12		LEFT ARROW																BACK TO BACK						
		W11-2	30	30	FYG		6.25						1	15								BACK TO BACK	X					
		W11-2	30	30	FYG		6.25															BACK TO BACK	X					
		W16-7PL	24	12	FYG		2.00															BACK TO BACK	X					
		W16-7PR	24	12	FYG		2.00															BACK TO BACK	X					
<b>SIGN SUMMARY SHEET</b>						SHEET TOTAL	34.50	0.00	0	0	0	6	0	2	2	0	30	0	0	0	0	PROJECT NAME: HARDWICK						
VERMONT AGENCY OF TRANSPORTATION						TOWN TOTAL	795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0	PROJECT NUMBER: STP PC 23(I)				
																						FILE NAME: zI9v425tsss.dgn						
																						PLOT DATE: 7/28/2021						
																						DRAWN BY: O. DALMER						
																						CHECKED BY: C. LATHROP						
																						TRAFFIC SIGN SUMMARY SHEET 21						
																						SHEET 66 OF 78						










STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL			
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER
																(LB / FT)				(LB / FT)								
<b>HARDWICK</b>		<b>VT 15</b>		FYG - FLUORESCENT YELLOW-GREEN																	"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS							
STA. 179+37	RT	R7-8M	12	18			1.50						1	15									X					
STA. 179+53	RT	W11-2	30	30		PEDESTRIAN					1		1															
		W16-7PL	24	12		LEFT ARROW					1																	
		R7-8M	12	18		RESERVED PARKING					1																	
		W11-2	30	30	FYG		6.25						1	15									X					
		W11-2	30	30	FYG		6.25																X					
		W16-7PL	24	12	FYG		2.00																X					
		W16-7PR	24	12	FYG		2.00																X					
STA. 179+65	LT	W11-2	30	30		PEDESTRIAN					1		1															
		W16-7PL	24	12		LEFT ARROW					1																	
		--	--	--		ATTENTION DOG OWNERS			1																			
		W11-2	30	30	FYG		6.25						1	15									X					
		W11-2	30	30	FYG		6.25																X					
		W16-7PL	24	12	FYG		2.00																X					
		W16-7PR	24	12	FYG		2.00																X					
<b>SIGN SUMMARY SHEET</b>						SHEET TOTAL	34.50	0.00	1	0	0	5	1	1	3	0	45	0	0	0	0							
VERMONT AGENCY OF TRANSPORTATION						TOWN TOTAL	795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0					
PROJECT NAME: HARDWICK																					PROJECT NUMBER: STP PC 23(I)							
FILE NAME: zI9v425tsss.dgn												PLOT DATE: 7/28/2021																
PROJECT LEADER: C. LATHROP												DRAWN BY: O. DALMER																
DESIGNED BY: S. SOLLA												CHECKED BY: C. LATHROP																
TRAFFIC SIGN SUMMARY SHEET 22												SHEET 67 OF 78																

STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL			
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER
																(LB / FT)				(LB / FT)								
<b>HARDWICK</b>			<b>VT 15</b>			FYG - FLUORESCENT YELLOW-GREEN																	"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS					
STA. 181+61	RT	W11-2	30	30		PEDESTRIAN						1	1															
		W16-7PL	24	12		LEFT ARROW						1																
		W11-2	30	30	FYG		6.25							1	15											BACK TO BACK	X	
		W11-2	30	30	FYG		6.25																			BACK TO BACK	X	
		W16-7PL	24	12	FYG		2.00																			BACK TO BACK	X	
		W16-7PR	24	12	FYG		2.00																			BACK TO BACK	X	
STA. 181+69	LT	W11-2	30	30		PEDESTRIAN						1	1															
		W16-7PL	24	12		LEFT ARROW						1																
		W11-2	30	30	FYG		6.25							1	15												BACK TO BACK	X
		W11-2	30	30	FYG		6.25																			BACK TO BACK	X	
		W16-7PL	24	12	FYG		2.00																			BACK TO BACK	X	
		W16-7PR	24	12	FYG		2.00																			BACK TO BACK	X	
STA. 181+83	LT	M3-4	24	12		WEST							1	2														
		VM1-5	24	24		VT 15							1															
		M6-1L	21	15		LEFT ARROW							1															
<b>SIGN SUMMARY SHEET</b>						SHEET TOTAL	33.00	0.00	0	0	0	7	0	4	2	0	30	0	0	0	0	0	0	0	PROJECT NAME: HARDWICK			
							SF	SF	EA	EA	EA	EA	EA	EA	EA	FT	FT	FT		LB	LB	LB	LB	PROJECT NUMBER: STP PC 23(I)				
VERMONT AGENCY OF TRANSPORTATION						TOWN TOTAL	795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0	FILE NAME: z19v425tsss.dgn				
																							PLOT DATE: 7/28/2021					
																							DRAWN BY: O. DALMER					
																							CHECKED BY: C. LATHROP					
																							TRAFFIC SIGN SUMMARY SHEET 23					
																							SHEET 68 OF 78					

STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL			
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER
																(LB / FT)				(LB / FT)								
HARDWICK			VT 15		FYG - FLUORESCENT YELLOW-GREEN													"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS										
		M4-5	24	12		TO					1																	
		VM1-5	24	24		VT 14					1																	
		M6-1L	21	15		LEFT ARROW					1																	
		M3-4	24	12	G/W		2.00						2	30					#2A				X					
		VM1-5	24	24			4.00																					E-136B
		M6-1L	21	15	G/W		2.19																	X				
		M4-5	24	12	G/W		2.00																	X				
		VM1-5	24	24			4.00																					E-136B
		M6-1L	21	15	G/W		2.19																		X			
		STA. 181+86	LT	R1-1	30		30	STOP				1	1															
				R1-1	30		30		6.25						1	15									X			
				VD-700	6	10		0.42																			T-44	
		STA. 182+52	LT	M3-2	24	12	EAST				1	2																
				VM1-5	24	24	VT 15				1																	
				M6-1R	21	15	RIGHT ARROW				1																	
<b>SIGN SUMMARY SHEET</b>						SHEET TOTAL	23.05	0.00	0	0	0	7	0	3	3	0	45	0	0	0	0	PROJECT NAME: HARDWICK						
VERMONT AGENCY OF TRANSPORTATION						TOWN TOTAL	795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0	PROJECT NUMBER: STP PC 23(I)				
							SF	SF	EA	EA	EA	EA	EA	EA	EA	FT	FT	FT		LB	LB	LB	LB	FILE NAME: z19v425tsss.dgn				
																							PLOT DATE: 7/28/2021					
																							DRAWN BY: O. DALMER					
																							CHECKED BY: C. LATHROP					
																							TRAFFIC SIGN SUMMARY SHEET 24					
																							SHEET 69 OF 78					

STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL			
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER
																(LB / FT)				(LB / FT)								
<b>HARDWICK</b>		<b>VT 15</b>				FY G - FLUORESCENT YELLOW-GREEN															"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS							
		M4-5	24	12		TO																						
		VM1-5	24	24		VT 16																						
		M6-1R	21	15		RIGHT ARROW																						
		--	--	--		PUBLIC PARKING																						
		--	--	--		LEFT ARROW																						
		M3-2	24	12	G/W		2.00						2		30						#2A	VEGETATION CLEARANCE REQUIRED	X					
		VM1-5	24	24			4.00																		E-136B			
		M6-1R	21	15	G/W		2.19																X					
		M4-5	24	12	G/W		2.00																X					
		VM1-5	24	24			4.00																X					
		M6-1R	21	15	G/W		2.19																		E-136B			
		D4-1R	30	24			5.00																X					
	STA. 183+23	RT	R7-8M	12	18		RESERVED PARKING																					
			R7-21M	12	18		2 HOUR PARKING ONLY																					
			R7-8M	12	18		1.50									15							X					
<b>SIGN SUMMARY SHEET</b>						<b>SHEET TOTAL</b>	22.88	0.00	0	0	0	7	0	1	3	0	15	30	0	0	0	0						
VERMONT AGENCY OF TRANSPORTATION						<b>TOWN TOTAL</b>	795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0					
PROJECT NAME: HARDWICK																					PROJECT NUMBER: STP PC 23(I)							
FILE NAME: z19v425tsss.dgn												PLOT DATE: 7/28/2021																
PROJECT LEADER: C. LATHROP												DRAWN BY: O. DALMER																
DESIGNED BY: S. SOLLA												CHECKED BY: C. LATHROP																
TRAFFIC SIGN SUMMARY SHEET 25												SHEET 70 OF 78																

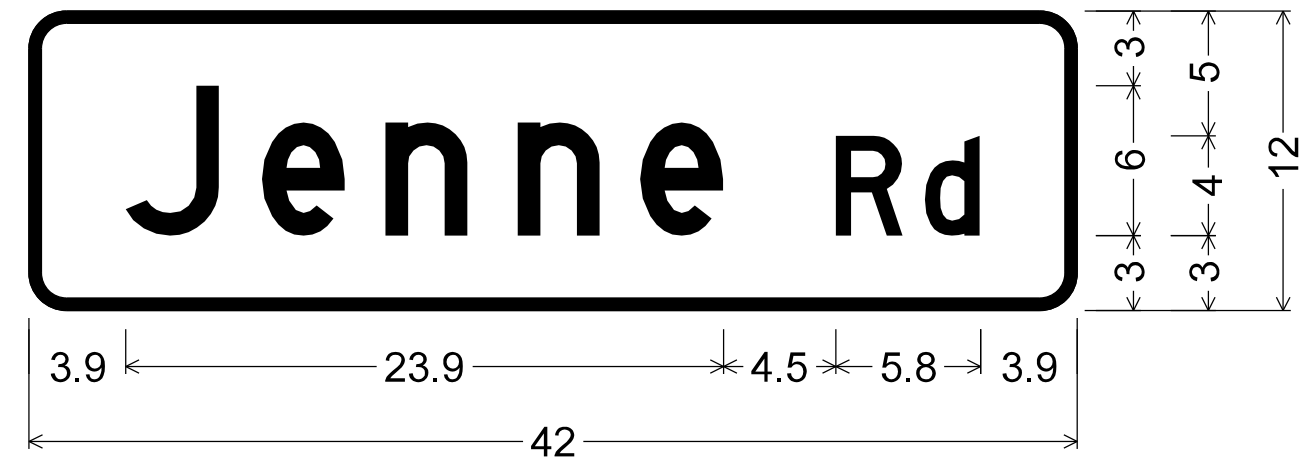


STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL			
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER
																(LB / FT)				(LB / FT)								
<b>HARDWICK</b>		<b>VT 15</b>		FYG - FLUORESCENT YELLOW-GREEN																	"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS							
		W16-7PL	24	12	FYG		2.00														BACK TO BACK	X						
		W16-7PR	24	12	FYG		2.00														BACK TO BACK	X						
STA. 185+52	RT	VD3-1	--	12		SUMNER ST			1			1																
		R1-1	30	30		STOP					1																	
		R1-1	30	30			6.25														BACK TO BACK	X						
		VD-700	6	10			0.42														BACK TO BACK			T-44				
STA. 186+07	LT	--	12	18		NO PARKING					1	1																
		R8-3a	24	24			4.00						1	15								X						
STA. 189+14	RT	VD3-1	30	12			3.75						2	30							DOUBLE SIDED SIGN, AREA HAS BEEN MULTIPLIED BY 1.5			SIGN DETAIL SHEET 1				
		VD3-1	54	12			6.75														DOUBLE SIDED SIGN, AREA HAS BEEN MULTIPLIED BY 1.5			SIGN DETAIL SHEET 1				
STA. 189+15	RT	R1-1	30	30			6.25						1	15								X						
STA. 189+21	RT	VD3-1	--	12		GLENSIDE AVE					1	1																
STA. 189+23	RT	R1-1	30	30		STOP					1										SIGN MOUNTED ON UTILITY POLE							
STA. 189+52	LT	VD3-1	--	12		MILL ST					1	1																
STA. 189+61	RT	R1-1	30	30			6.25						1	15							BACK TO BACK	X						
<b>SIGN SUMMARY SHEET</b>						SHEET TOTAL	37.67	0.00	1	0	0	5	1	3	5	0	75	0	0	0	0	PROJECT NAME: HARDWICK						
VERMONT AGENCY OF TRANSPORTATION						TOWN TOTAL	795.51	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0	PROJECT NUMBER: STP PC 23(I)				
									EA	EA	EA	EA	EA	EA	EA	FT	FT	FT		LB	LB	LB	LB	FILE NAME: z19v425tsss.dgn				
																								PLOT DATE: 7/28/2021				
																								DRAWN BY: O. DALMER				
																								CHECKED BY: C. LATHROP				
																								TRAFFIC SIGN SUMMARY SHEET 27				
																								SHEET 72 OF 78				

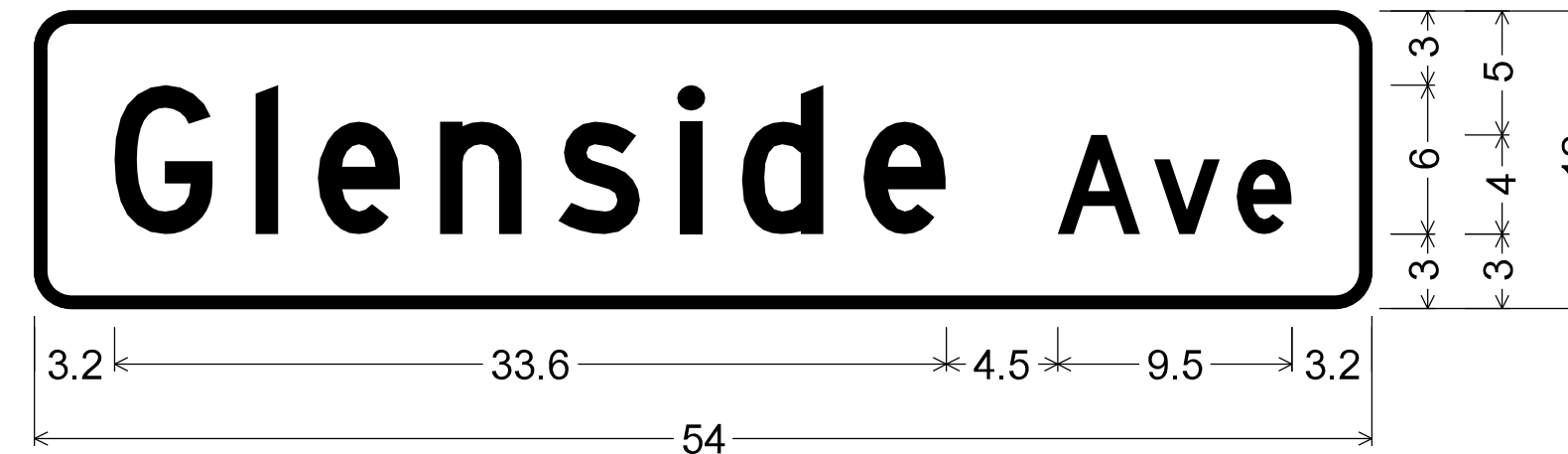


STATION	LOCATION CODE	MUTCD CODE	WIDTH	HEIGHT	SHEETING REMARKS	SIGN LEGEND	NEW SIGNS		EXISTING SIGNS				EXIST POST		NUMBER OF NEW POSTS	SQUARE STEEL (in)			TUBULAR STEEL Ø (IN)				SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL			
							"A"	"B"	RETAIN	RESET FROM	RESET TO	REMOVE	RETAIN	REMOVE		1.75	2.00	2.50	FOUNDATION	3.00	3.50	4.00			5.00	DETAIL IN SHSM	DETAIL ON SHEET NUMBER	DETAIL ON STD SHEET NUMBER
																(LB / FT)				(LB / FT)								
<b>HARDWICK</b>		<b>VT 15</b>		FYG - FLUORESCENT YELLOW-GREEN																	"SHSM" - STANDARD HIGHWAY SIGNS AND MARKINGS							
		VD-700	6	10			0.42														BACK TO BACK			T-44				
STA. 191+50	LT	W1-10ML	30	30		SIDE ST LEFT					1	1																
		W16-8P	--	--		GLENSIDE (SUPPLEMENTAL)					1																	
		W1-10ML	30	30			6.25						1	15									X					
		W16-8P	30	8			1.67																		SIGN DETAIL SHEET 2			
STA. 191+61	RT	W1-3	36	36		SHARP TURN RIGHT					1	2																
		W13-1P	18	18		ADVISORY SPEED 30 MPH					1																	
		W1-3	36	36			9.00						2	30									X					
		W13-1P	18	18			2.25																X					

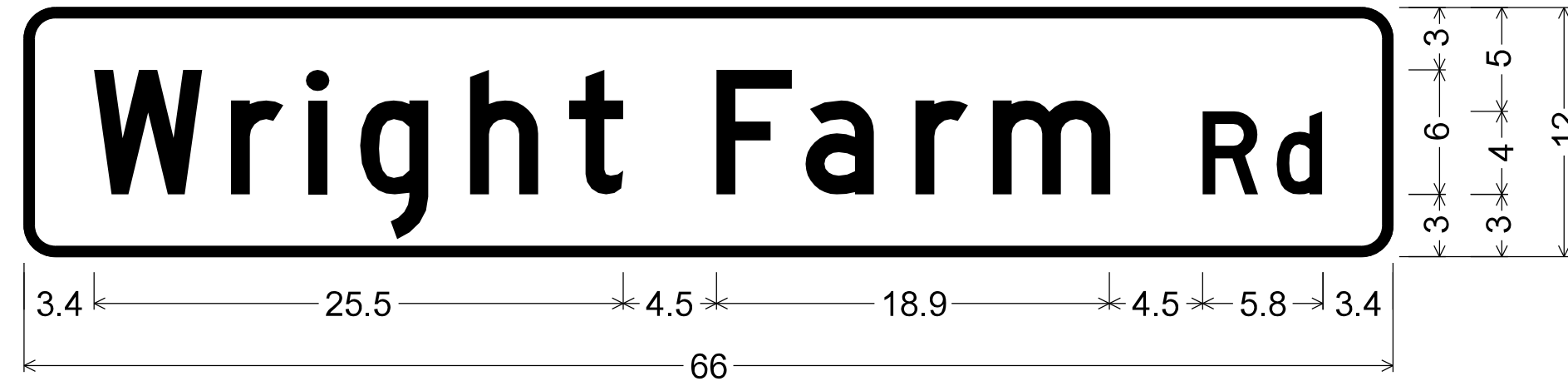
<b>SIGN SUMMARY SHEET</b>	SHEET TOTAL										19.59	0.00	0	0	0	4	0	3	3	0	45	0	0	0	0	0	0	0	
	PROJECT SUBTOTAL										SF	SF	EA	EA	EA	EA	EA	EA	EA	FT	FT	FT		LB	LB	LB	LB		
	ROUNDING										4.49																		
	PROJECT TOTAL										800.00	0.00	31	10	10	158	22	74	92	40	1215	90	2	0	0	324	0		
VERMONT AGENCY OF TRANSPORTATION										PROJECT NAME: HARDWICK										PROJECT NUMBER: STP PC 23(I)									
										FILE NAME: z19v425tsss.dgn										PLOT DATE: 7/28/2021									
										PROJECT LEADER: C. LATHROP										DRAWN BY: O. DALMER									
										DESIGNED BY: S. SOLLA										CHECKED BY: C. LATHROP									
										TRAFFIC SIGN SUMMARY SHEET 28										SHEET 73 OF 78									



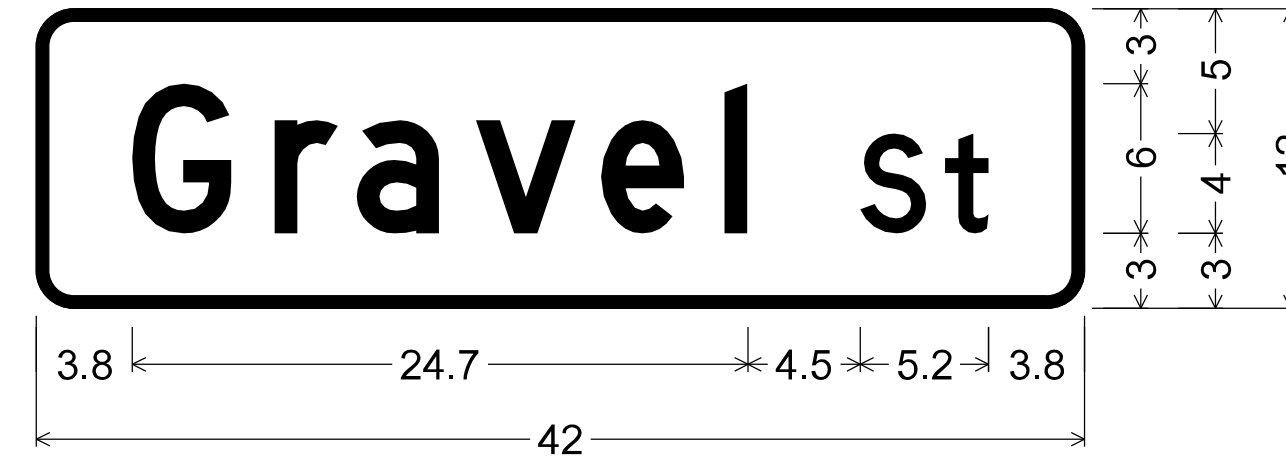
DOUBLE - SIDED STREET SIGN (HARDWICK);  
1.5" Radius, 0.5" Border, White on Green;  
[Jenne Rd] D;



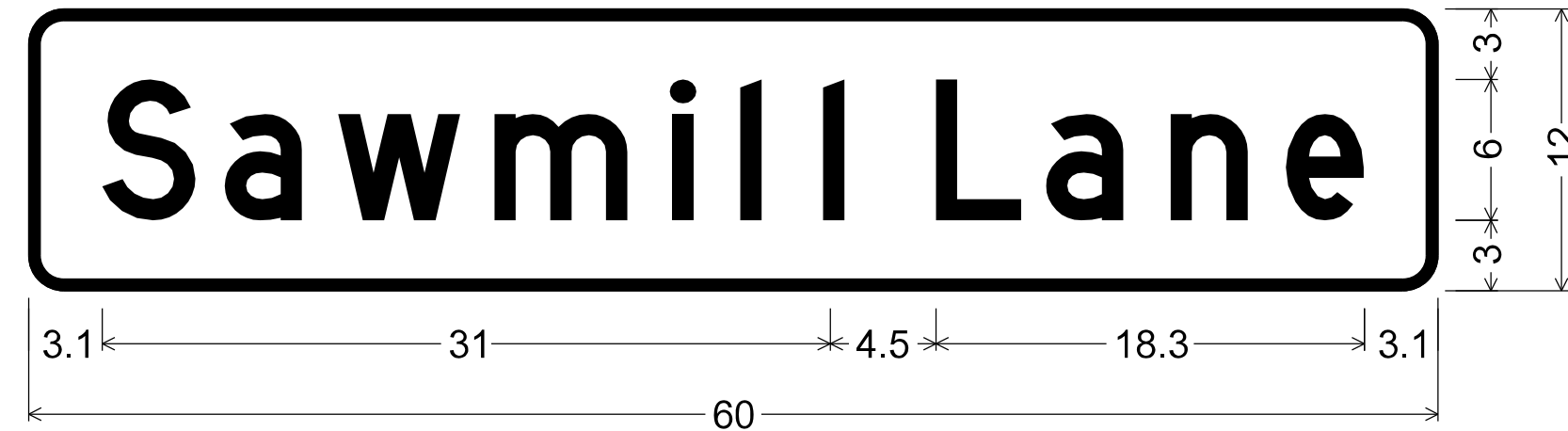
DOUBLE - SIDED STREET SIGN (HARDWICK);  
1.5" Radius, 0.5" Border, White on Green;  
[Glenside Ave] D;



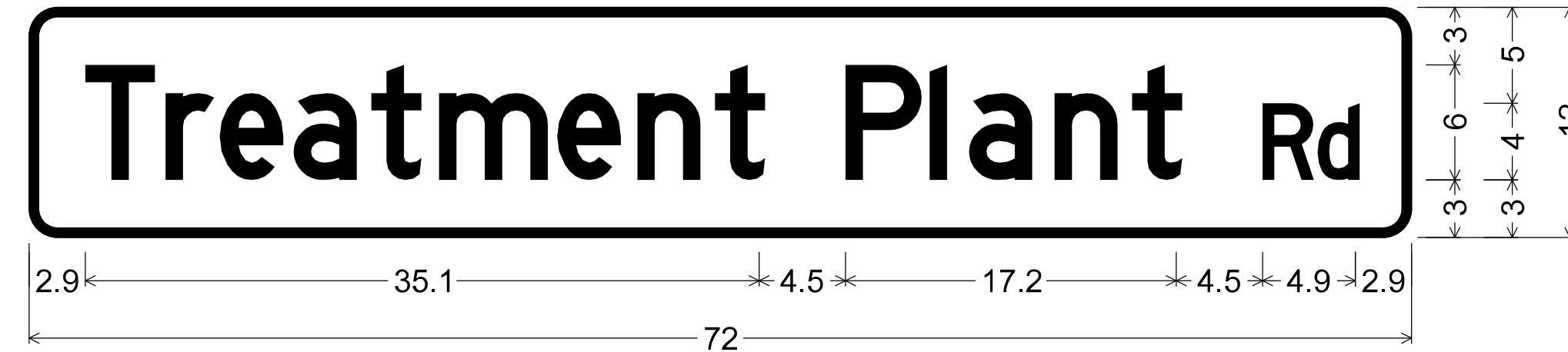
DOUBLE - SIDED STREET SIGN (HARDWICK);  
1.5" Radius, 0.5" Border, White on Green;  
[Wright Farm Rd] D;



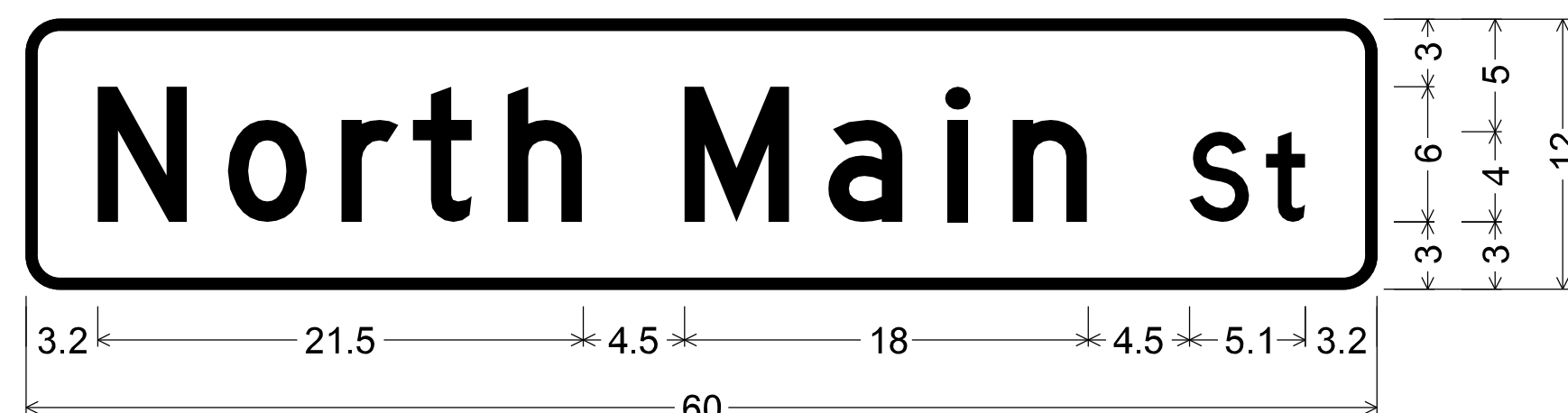
DOUBLE - SIDED STREET SIGN (HARDWICK)  
1.5" Radius, 0.5" Border, White on Green;  
"Gravel St", D;



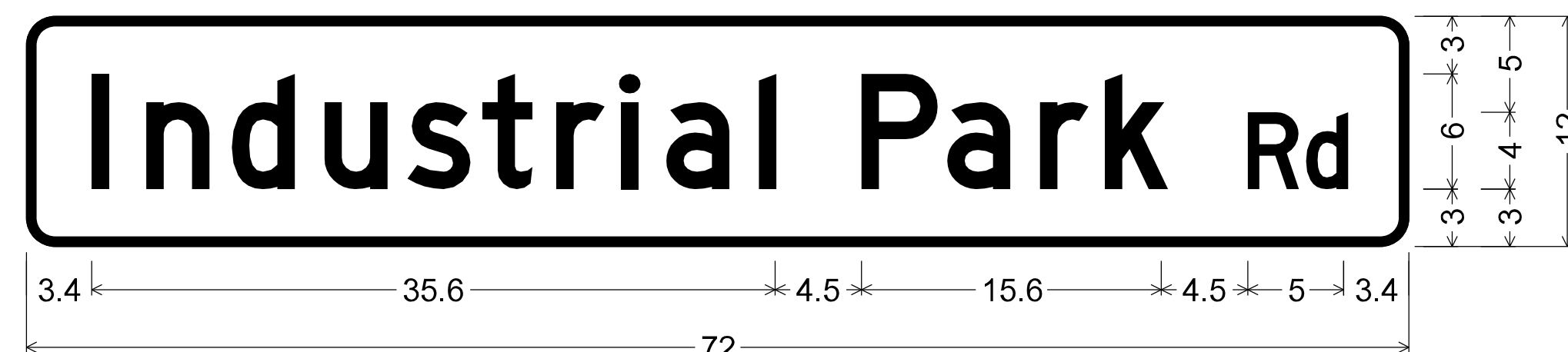
DOUBLE - SIDED STREET SIGN (HARDWICK);  
1.5" Radius, 0.5" Border, White on Green;  
[Sawmill Lane] D;



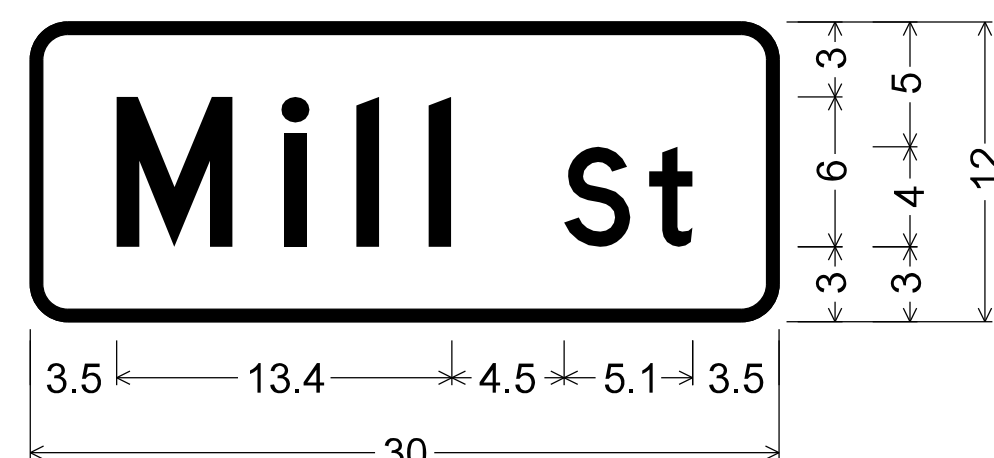
DOUBLE - SIDED STREET SIGN (HARDWICK)  
1.5" Radius, 0.5" Border, White on Green;  
"Treatment Plant Rd", C 80% spacing;



DOUBLE - SIDED STREET SIGN (HARDWICK);  
1.5" Radius, 0.5" Border, White on Green;  
[North Main St] D;



DOUBLE - SIDED STREET SIGN (HARDWICK)  
1.5" Radius, 0.5" Border, White on Green;  
"Industrial Park Rd", C;

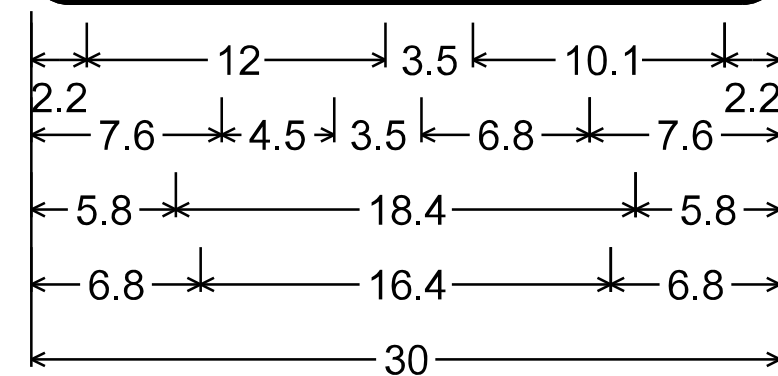


DOUBLE - SIDED STREET SIGN (HARDWICK);  
1.5" Radius, 0.5" Border, White on Green;  
[Mill St] D;

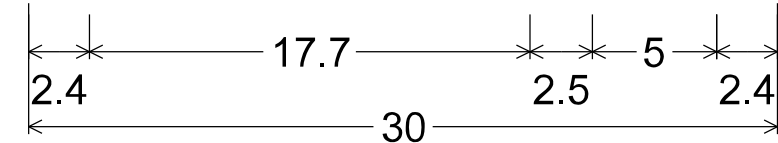
**ALL SIGNS IN THIS SHEET ARE SIGN CODE VD3-1**

NOT TO SCALE

PROJECT NAME: HARDWICK	PLOT DATE: 7/28/2021
PROJECT NUMBER: PC23(I)	DRAWN BY: O.DALMER
FILE NAME: z:\0b256t\sss-det.dgn	CHECKED BY: C.LATHROP
PROJECT LEADER: C.LATHROP	SHEET 74 OF 78
DESIGNED BY: S.SOLLA	
SIGN DETAIL SHEET 1	

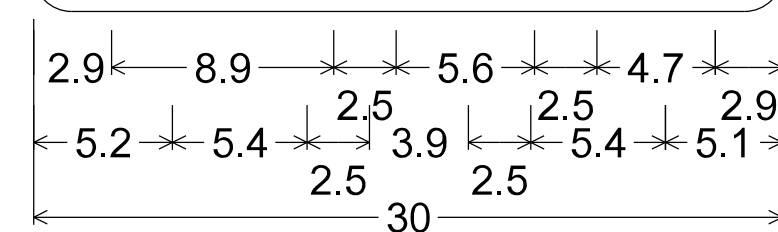


1.5" Radius, 0.5" Border, White on Green;  
 "GRAND ARMY," C 80 spacing;  
 "OF THE REPUBLIC  
 HIGHWAY", C ;

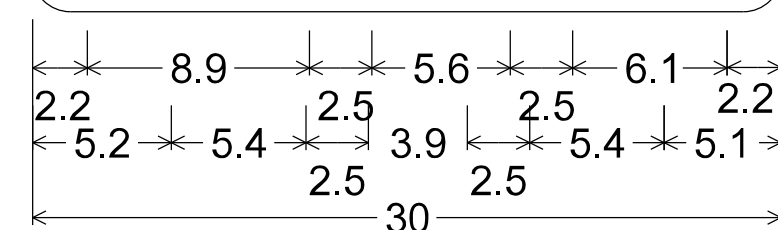


1.5" Radius, 0.5" Border, 0.4" Indent, Black on Yellow;  
 [Glenside Ave] C;

**SIGN CODE W16-8P**



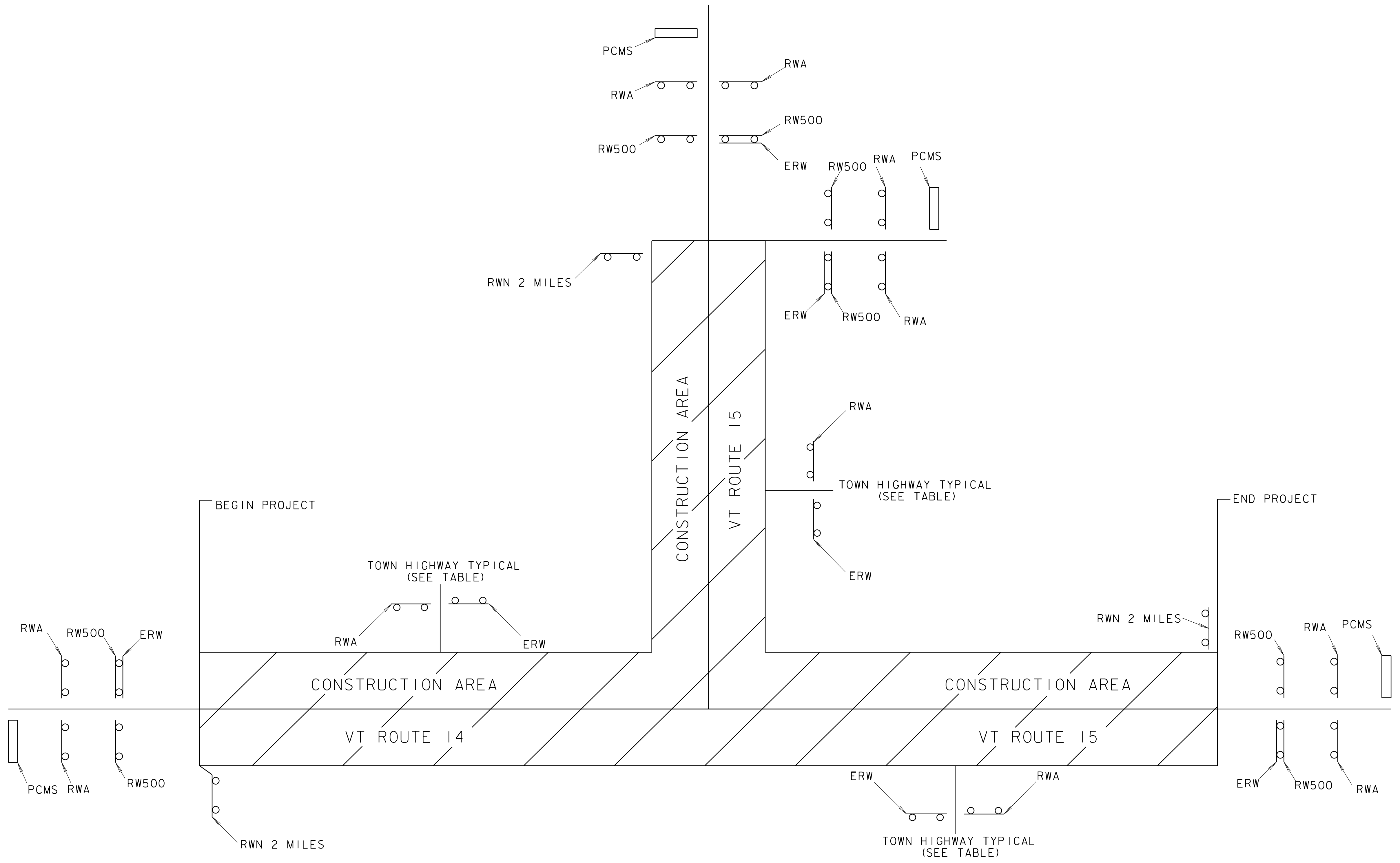
1.5" Radius, 0.5" Border, 0.5" Indent, Black on White;  
 "TRAFFIC FROM LEFT", B;  
 "DOES NOT STOP", B;



1.5" Radius, 0.5" Border, 0.5" Indent, Black on White;  
 "TRAFFIC FROM RIGHT", B;  
 "DOES NOT STOP", B;

NOT TO SCALE

PROJECT NAME: HARDWICK	
PROJECT NUMBER: PC23(I)	
FILE NAME: z:\0b256t\sss-det.dgn	PLOT DATE: 7/28/2021
PROJECT LEADER: C.LATHROP	DRAWN BY: O.DALMER
DESIGNED BY: S.SOLLA	CHECKED BY: C.LATHROP
SIGN DETAIL SHEET 2	SHEET 75 OF 78



- LEGEND**
- SRWA = SIDE ROAD WORK AHEAD
  - SRW500 = SIDE ROAD WORK 500 FT
  - RWA = ROAD WORK AHEAD
  - RW500 = ROAD WORK 500 FT
  - ERW = END ROAD WORK
  - RWN = ROAD WORK NEXT XX MILES
  - PCMS = PORTABLE CHANGEABLE MESSAGE SIGN

**CONSTRUCTION APPROACH SIGNING**  
SEE STD T-10 FOR SIGN PLACEMENT

NOT TO SCALE

PROJECT NAME:	HARDWICK	PLOT DATE:	7/28/2021
PROJECT NUMBER:	STP PC23(I)	DRAWN BY:	T. MATTHEWS
FILE NAME:	I8V191cos.dgn	CHECKED BY:	C. LATHROP
PROJECT LEADER:	C. LATHROP	CONSTRUCTION APPROACH SIGNING SHEET I	SHEET 76 OF 78

	ROAD WORK AHEAD	ROAD WORK 500 FT	SIDE ROAD WORK AHEAD	SIDE ROAD WORK 500 FT	ROAD WORK NEXT 2 MILES	PCMS	END ROAD WORK
HARDWICK (VT ROUTE 14)							
BEGIN PROJECT (VT 14)	2	2			1	1	1
BUFFALO ST (TH-352)	1						1
MARSHALL ST (TH-350)	1						1
MACKVILLE RD (TH-8)	1						1
WINTER ST (TH-354)	1						1
JENNE RD (TH-356)	1						1
GOOD PL (TH-346)	1						1
ALPINE HTS (TH-344)	1						1
FARR ST (TH-360)	1						1
SUMMER ST (TH-362)	1						1
SPRING ST (TH-365)	1						1
UPPER CHERRY ST (TH-342)	1						1
CHERRY ST (TH-380)	1						1
TERRACE HILL RD (TH-372)	1						1
TERRACE HILL RD (TH-372)	1						1
HOLTON HL (TH-336)	1						1

HARDWICK (VT ROUTE 15)							
BEGIN PROJECT (VT 15)	2	2			1	1	1
CRAFTSBURY RD (VT 14 NORTH)	2	2			1	1	1
WRIGHT FARM RD (TH-43)	1						1
LOG YARD DR (TH-25)	1						1
TREATMENT PLANT RD (TH-416)	1						1
JUNCTION RD (TH-351)	1						1
INDUSTRIAL PARK RD (TH-414)	1						1
ROCHESTER ST (TH-406)	1						1
CHARLEVOIX ST (TH-410)	1						1
ROCHESTER ST (TH-406)	1						1
HILLSIDE ST (TH-400)	1						1
UNION ST (TH-394)	1						1
SAWMILL LN (TH-393)	1						1
GRANITE ST (TH-376)	1						1
COTTAGE ST (TH-374)	1						1
WEST CHURCH ST (TH-392)	1						1
ELM ST (TH-366)	1						1
NORTH MAIN ST (TH-3)	1						1
PERRY LANE HL (TH-338)	1						1
SUMNER ST (TH-334)	1						1
GLENSIDE AVE (TH-332)	1						1
END PROJECT (VT 15)	2	2			1	1	1

TOTALS	42	8			4	4	38
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PROJECT NAME: HARDWICK  
PROJECT NUMBER: STP PC23(I)

FILE NAME: I8V191cos.dgn PLOT DATE: 7/28/2021  
PROJECT LEADER: C. LATHROP DRAWN BY: T. MATTHEWS  
DESIGNED BY: T. MATTHEWS CHECKED BY: C. LATHROP  
CONSTRUCTION APPROACH SIGNING SHEET 2 SHEET 77 OF 78

## **TRAFFIC CONTROL NOTES**

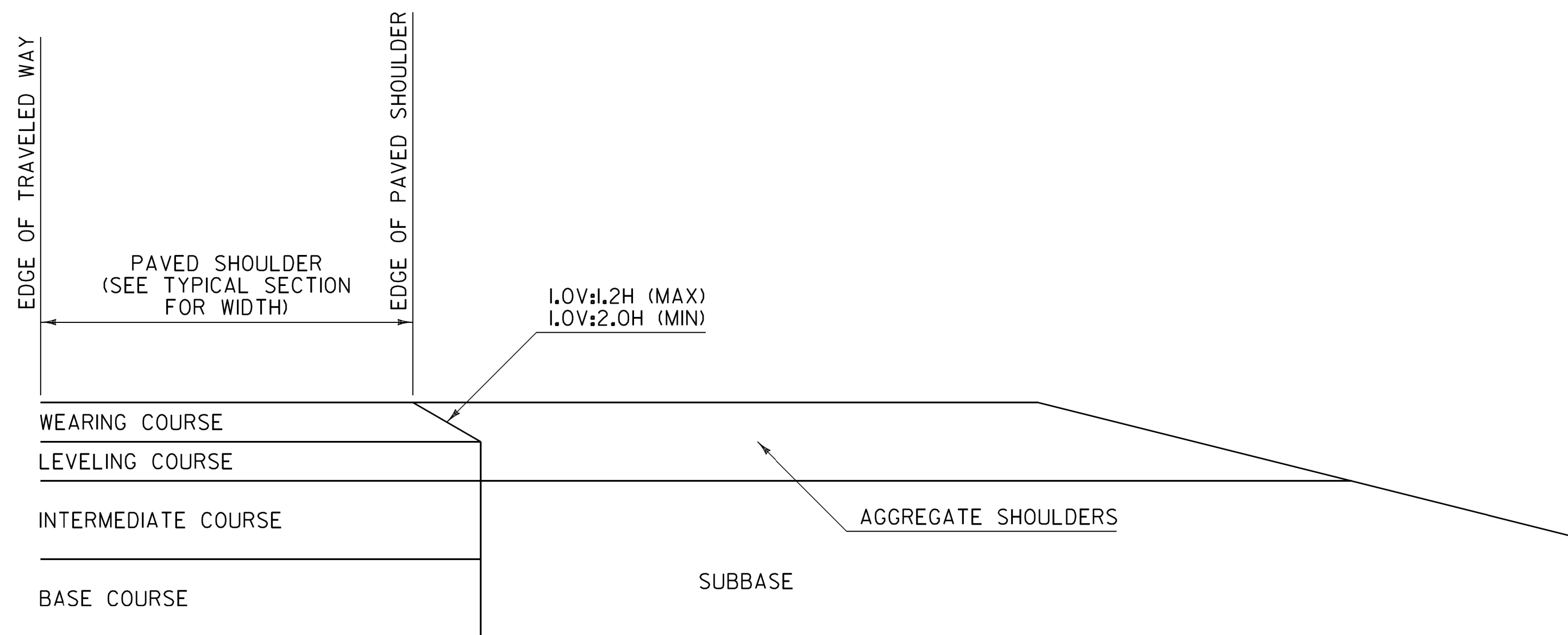
1. THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC TRAFFIC CONTROL PLAN PER SUBSECTION 105.03 TO THE ENGINEER. CONSTRUCTION OPERATIONS SHALL NOT COMMENCE UNTIL THE PLAN HAS BEEN ACCEPTED BY THE ENGINEER. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) WILL NOT BE PAID SEPARATELY BUT WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.11, "TRAFFIC CONTROL, ALL INCLUSIVE". THE TRAFFIC CONTROL PLAN SHALL BE IN COMPLIANCE WITH VTRANS STANDARDS AND 2009 MUTCD. WHERE CONFLICTS EXIST, THE 2009 MUTCD SHALL GOVERN.
2. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN APPROACH PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH THE TRAFFIC CONTROL NOTES AND PART 6 OF THE 2009 MUTCD. PAYMENT FOR PROVIDING THIS PACKAGE WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.11, "TRAFFIC CONTROL, ALL INCLUSIVE".
3. THE CONTRACTOR SHALL POSITION PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) STARTING TWO WEEKS BEFORE CONSTRUCTION WARNING MOTORISTS OF THE EXPECTED ROADWAY CONDITIONS AHEAD. THE MESSAGE TO BE DISPLAYED, AND THEIR PROPOSED LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER IN ADVANCE FOR APPROVAL. THE PCMS SHOULD BE RELOCATED AS DETERMINED BY THE ENGINEER TO PROVIDE WORK ZONE TRAVEL INFORMATION THAT IS OTHERWISE DIFFICULT TO CONVEY WITH STATIC SIGNS. THE COST OF PROVIDING THESE MESSAGE SIGNS AND THEIR RELOCATION IF NECESSARY WILL BE PAID UNDER ITEM 641.15 "PORTABLE CHANGEABLE MESSAGE SIGN".
4. THE CONTRACTOR SHALL PROVIDE ACCESS THROUGH THE WORK ZONE FOR EMERGENCY VEHICLES OR COORDINATE EMERGENCY ROUTES PRIOR TO THE START OF CONSTRUCTION.
5. A MINIMUM LANE WIDTH OF 10 FT. SHALL BE MAINTAINED. IT IS RECOMMENDED THAT BICYCLES ARE HELD TO THE END OF THE QUEUE BEFORE BEING RELEASED SO THEY ARE NOT COMPETING FOR LANE SPACE WITHIN THE ONE LANE CLOSURE.
6. WHEN COARSE-MILLED BITUMINOUS PAVEMENT IS OPEN TO TRAFFIC, A "MOTORCYCLES USE CAUTION" SIGN, AS PER VTRANS STANDARD T-17, SHALL BE PROVIDED.
7. MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES FOR EMERGENCY VEHICLES. MAINTAIN ACCESS TO ALL COMMERCIAL AND MUNICIPAL PROPERTIES DURING BUSINESS HOURS. ACCESS TO RESIDENTIAL PROPERTIES MAY BE RESTRICTED FOR A SHORT DURATION (A FEW HOURS). THIS WORK SHALL BE COORDINATED WITH THE OWNER. COORDINATE MAJOR WORK ON COMMERCIAL OR MUNICIPAL ACCESSES WITH THE OWNER AT LEAST ONE WEEK PRIOR TO STARTING THE WORK. ALL ACCESSES SHALL ALSO BE KEPT FREE OF WORK AND TRAFFIC CONTROLLED BY UNIFORMED TRAFFIC OFFICERS OR FLAGGERS AS REQUIRED BY THE ENGINEER.
8. THE CONTRACTOR SHALL LEAVE NO LONGITUDINAL DROP-OFFS DURING THE OVERNIGHT HOURS. THEREFORE, THE FULL ROADWAY WIDTH SHALL BE COARSE-MILLED OR PAVED DURING THE DAILY WORK PERIOD. WHEN NECESSARY, DROP-OFF PROTECTION IN THESE AREAS SHALL CONFORM TO VTRANS STANDARD T-36. CONCRETE BARRIERS EXPOSED TO TRAFFIC SHALL BE DELINEATED AND ENDS TO BE PROTECTED OR EXTEND OUTSIDE THE CLEAR ZONE.
9. TRAFFIC SHALL NOT BE CHANGED FROM ONE TRAFFIC PATTERN TO THE NEXT TRAFFIC PATTERN UNTIL ALL TEMPORARY MARKINGS AND SIGNING WORK ARE COMPLETED. ANY CONFLICTING MARKINGS SHALL BE REMOVED.
10. PLEASE NOTE THAT THE UTO (UNIFORMED TRAFFIC OFFICER), UNDER AUTHORITY GRANTED BY LAW (TITLE 23 VSA) MAY DIRECT AND CONTROL TRAFFIC. SUITABLE EXAMPLES IN WORK MIGHT INCLUDE THE DIRECTION AND CONTROLS OF TRAFFIC AT INTERSECTIONS WHERE SIGNALS ARE NOT FUNCTIONING OR ARE MALFUNCTIONING. IN THESE CASES, THE PRESENCE OF THE BLUE LIGHT MAY NOT BE SUITABLE OR NECESSARY. THE WEARING OF DEPARTMENTALLY REQUIRED AND APPROVED REFLECTIVE GARMENTS IS REQUIRED.
11. THE BID PRICE FOR "TRAFFIC CONTROL, ALL INCLUSIVE", ITEM 641.11, SHALL INCLUDE ALL OF THE FOLLOWING, AS NEEDED: APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, PORTABLE ARROW BOARDS, BARRIERS, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN VAOT STANDARDS. ALL ADJUSTING, RELOCATING, AND REMOVING OF THESE DEVICES AS DIRECTED BY THE ENGINEER SHALL ALSO BE INCLUDED. THE FOLLOWING ITEMS WILL BE PAID FOR SEPARATELY: 646.602, 646.612, 646.652, 646.682, 646.692 - TEMPORARY PAVEMENT MARKINGS, 630.10 "UNIFORMED TRAFFIC OFFICER", 630.15 "FLAGGERS", 641.15 "PORTABLE CHANGEABLE MESSAGE SIGN"
13. THE 2009 MUTCD AND ITS LATEST REVISIONS SHALL BE THE STANDARD FOR ALL TRAFFIC CONTROL DEVICES, VALID UNTIL SUCH TIME AS THEY ARE REPLACED OR RECONSTRUCTED. WHEN NEW TRAFFIC CONTROL DEVICES ARE ERECTED OR PLACED OR EXISTING TRAFFIC CONTROL DEVICES ARE REPLACED OR REPAIRED THE EQUIPMENT, DESIGN, METHOD OF INSTALLATION, PLACEMENT OR REPAIR SHALL CONFORM WITH SUCH STANDARDS.
14. CONES SHALL BE USED TO CLEARLY DEFINE THE TRAVEL SPACE AND PROVIDE SEPARATION FROM THE WORK. DRUMS SHALL BE USED TO CHANNELIZE OR DELINEATE ROAD USER FLOW. REFLECTORIZED CONES WILL BE USED TO DELINEATE COMMERCIAL DRIVES WITHIN THE WORK ZONE.
15. AS THE PAVING OPERATION MOVES, THE FLAGGER SIGNS SHALL BE MOVED ACCORDINGLY. AT NO TIME SHOULD THE FLAGGER SYMBOL SIGN BE MORE THAN 500 FT FROM THE FLAGGER STATION. FLAGGER SIGNS SHALL BE COVERED OR TURNED AWAY IF FLAGGING OPERATIONS CEASE FOR MORE THAN 15 MINUTES.
16. 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.
17. ALL PERMANENT SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE COMPLETELY COVERED, THE PAYMENT FOR WHICH SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.11, "TRAFFIC CONTROL, ALL INCLUSIVE".
18. CONSTRUCTION SIGNS SHALL BE IN NEW OR LIKE NEW CONDITION PER VAOT STANDARDS.
19. DIAMOND SHAPED SIGNS SHALL BE FOUR FOOT BY FOUR FOOT WITH BLACK TEXT AND BORDER ON A RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND.
20. CONSTRUCTION ZONE SIGNS SHALL BE INSTALLED AS SPECIFIED IN THE SPECIAL PROVISIONS.
21. WHERE TEMPORARY SIGNS ARE PLACED BEHIND GUARDRAIL, THEY SHALL BE ADJUSTED SUCH THAT THE BOTTOM OF THE SIGNS ARE ABOVE THE TOP OF GUARDRAIL.
22. FLAGGERS WILL ONLY HAVE THE AUTHORITY TO STOP AND RELEASE TRAFFIC.
23. IT IS IMPORTANT THAT CYCLIST'S ROUTES ARE FREE OF RUTS, SAND, AND MUD TO PREVENT CYCLIST'S CRASHES. A FOUR (4) FOOT MINIMUM, FIVE (5) FOOT PREFERRED WIDTH SHOULD BE MAINTAINED THROUGH WORK ZONES TO ACCOMMODATE BICYCLES.
24. THE DMV WILL REQUIRE NOTIFICATION FOR WIDTH RESTRICTION TO REROUTE SUPER LOAD PERMITS. IT SHOULD BE NOTED THAT ONCE A PERMIT IS ISSUED THE APPLICANT/Hauler HAS 10 DAYS TO MOVE THEIR LOAD. THIS REQUIRES ADDITIONAL NOTICE TO CAPTURE THAT 10-DAY WINDOW.
25. ACCOMMODATIONS FOR POSTAL DELIVERERS, NEWSPAPER ROUTES, TRASH SERVICES AND/OR OTHER DELIVERY SERVICES INTERRUPTED BY THE PROJECT OR DETOUR SHOULD BE COMMUNICATED WITH THE PROPER CONTACTS.
26. WHEN SCHOOL IS IN SESSION, SCHOOL BUS STOP ACCOMMODATIONS ARE REQUIRED. LOCATIONS WILL NEED TO BE COORDINATED WITH THE LOCAL SCHOOL TRANSPORTATION COORDINATOR. ADDITIONAL FLAGGERS WILL BE STATIONED AT THESE LOCATIONS DURING TYPICAL MORNING PICK-UP AND AFTERNOON DROP-OFF TIME PERIODS WHILE WORK IS PERFORMED IN THESE AREAS.
4. IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCED 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 MUST BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE FIRM, STABLE AND SLIP-RESISTENT AND CONTINUOUS WITH A MINIMUM OF 80 INCHES OVERHEAD CLEARANCE 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 CONFLICTS WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.
5. WHEN TEMPORARY CROSSWALKS ARE UTILIZED FOR THE TPAR, TEMPORARY DETECTABLE WARNING SURFACES SHALL BE PLACED AT EACH END OF THE TEMPORARY CROSSWALKS. THE TEMPORARY CROSSWALK SHALL BE DELINEATED WITH TEMPORARY PAVEMENT MARKINGS OR TAPE. THE MARKINGS SHALL BE PARALLEL 12-INCH-WIDE WHITE LINES PLACED SEVEN FEET ON CENTER APART. IT SHOULD BE NOTED THAT CURB PARKING SHALL BE PROHIBITED FOR AT LEAST 20 FEET IN ADVANCE OF MIDDLEBLOCK CROSSWALKS. TEMPORARY CROSSWALK SIGNS SHALL BE PROVIDED FOR THE CROSSWALK.
6. IF THERE IS WORK OCCURRING OVER AN OPEN SIDEWALK, PROTECTIVE OVERHEAD COVERING MUST BE PROVIDED AS NECESSARY TO ENSURE PROTECTION FROM FALLING OBJECTS AND DRIPPING FROM OVERHEAD STRUCTURES. COVERED WALKWAYS SHOULD BE STURDILY CONSTRUCTED AND ADEQUATELY LIGHTED FOR NIGHTTIME USE.
7. INDIVIDUAL CHANNELIZING DEVICES, TAPE OR ROPE USED TO CONNECT INDIVIDUAL DEVICES AND OTHER DISCONTINUOUS BARRIERS AND DEVICES, PAVEMENT MARKINGS ARE NOT DETECTABLE BY PERSONS WITH VISUAL DISABILITIES. THESE MEASURES DO NOT PROVIDE ACCEPTABLE PATH GUIDANCE ON TEMPORARY OR RE-ALIGNED SIDEWALKS OR OTHER PEDESTRIAN FACILITIES. PEDESTRIAN CHANNELIZING DEVICES SHALL INCLUDE A CONTINUOUSLY DETECTABLE BOTTOM AND TOP EDGE THROUGHOUT THE LENGTH OF THE FACILITY SUCH THAT IT CAN BE FOLLOWED BY PEDESTRIANS USING LONG CANES FOR GUIDANCE.
8. CHANNELIZING DEVICES ON BOTH SIDES OF THE TPAR SHALL CONTINUE IN A CONTINUOUS SOLID TOP AND BOTTOM RAILS. THE TOP EDGE OF THE TOP RAIL SHALL BE BETWEEN 32 INCHES AND 38 INCHES ABOVE THE GROUND LEVEL. THE BOTTOM RAIL SHALL BE AT LEAST 6 INCHES WIDE, WITH THE BOTTOM EDGE OF THE RAIL SURFACE NO HIGHER THAN TWO INCHES ABOVE THE GROUND.
9. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASHWORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF THE MUTCD SHALL BE USED.
10. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN TRAVEL PATH.
11. PROVISION OF THE TPAR AND ALL ITS ELEMENTS, INCLUDING BUT NOT LIMITED TO SIGNS, CHANNELIZING DEVICES, BARRICADES, TEMPORARY CURB RAMPS, TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES IS TO BE PAID INCIDENTAL TO "TRAFFIC CONTROL, ALL INCLUSIVE", ITEM 641.11.
12. ALL REASONABLE EFFORTS SHALL BE MADE TO ACCOMMODATE PEDESTRIAN TRAVEL AT ALL TIMES. THIS CAN INCLUDE, BUT IS NOT LIMITED TO A DEDICATED PEDESTRIAN ESCORT, SIGNAGE AND PEDESTRIAN CHANNELIZING DEVICE WALKWAYS THAT MEET ADA REQUIREMENTS WITHIN CLOSED LANES. FLAGGERS SHALL NOT BE USED AS PEDESTRIAN ESCORTS. FLAGGERS CAN ONLY STOP AND RELEASE TRAFFIC. WHEN EXISTING PEDESTRIAN FACILITIES ARE DISRUPTED, CLOSED, OR RELOCATED IN A TEMPORARY TRAFFIC CONTROL ZONE, THE TEMPORARY FACILITIES SHALL BE DETECTABLE AND SHALL INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY. THE TEMPORARY FACILITIES SHOULD REPLICATE THE EXISTING PEDESTRIAN PATHWAY AS NEARLY AS PRACTICAL AND THAT THE PEDESTRIAN PATHWAY SHOULD NOT BE SEVERED OR MOVED FOR NON-CONSTRUCTION ACTIVITIES, SUCH AS PARKING FOR VEHICLES OR THE STORAGE OF MATERIALS AND EQUIPMENT. PAYMENT WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.11, "TRAFFIC CONTROL, ALL INCLUSIVE".

## **PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES**

1. THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) FOR REVIEW AND WRITTEN APPROVAL BY THE ENGINEER A MINIMUM OF THREE WEEKS BEFORE SUCH A 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, TAPERS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC.
2. 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 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), PART 6.
3. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES, COMMERCIAL PROPERTIES AND TRANSIT STOPS. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.

PROJECT NAME: HARDWICK  
PROJECT NUMBER: STP PC23(I)

FILE NAME: z18V91cos.dgn PLOT DATE: 7/28/2021  
PROJECT LEADER: C. LATHROP DRAWN BY: T. MATTHEWS  
DESIGNED BY: T. MATTHEWS CHECKED BY: C. LATHROP  
TRAFFIC CONTROL NOTES SHEET SHEET 78 OF 78

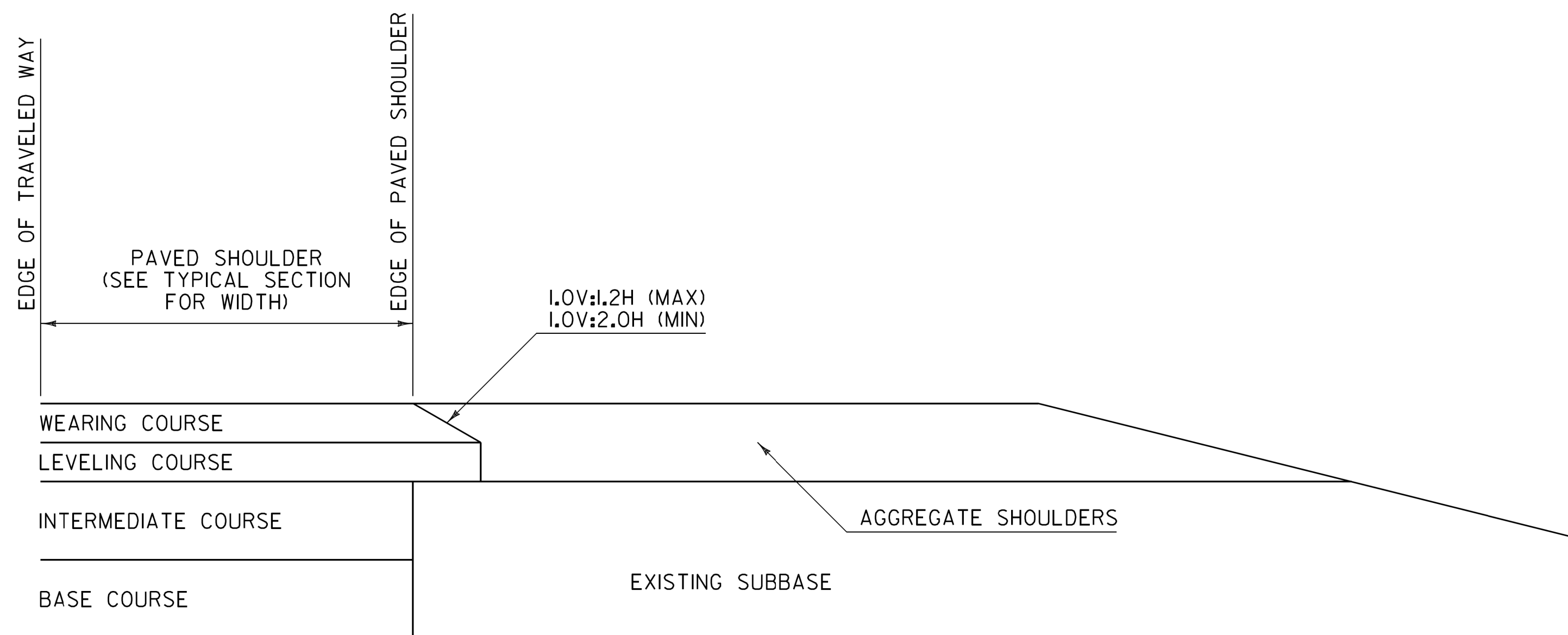


**SAFETY EDGE DETAIL  
FOR PAVING BELOW WEARING COURSE**

**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 SHOULDERS SHALL BE PREPARED FLUSH WITH THE BOTTOM OF THE LEVELING COURSE.
3. BASE COURSE LIMITS MAY VARY, SEE TYPICAL SECTIONS FOR WIDTH.

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



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

**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.

**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.

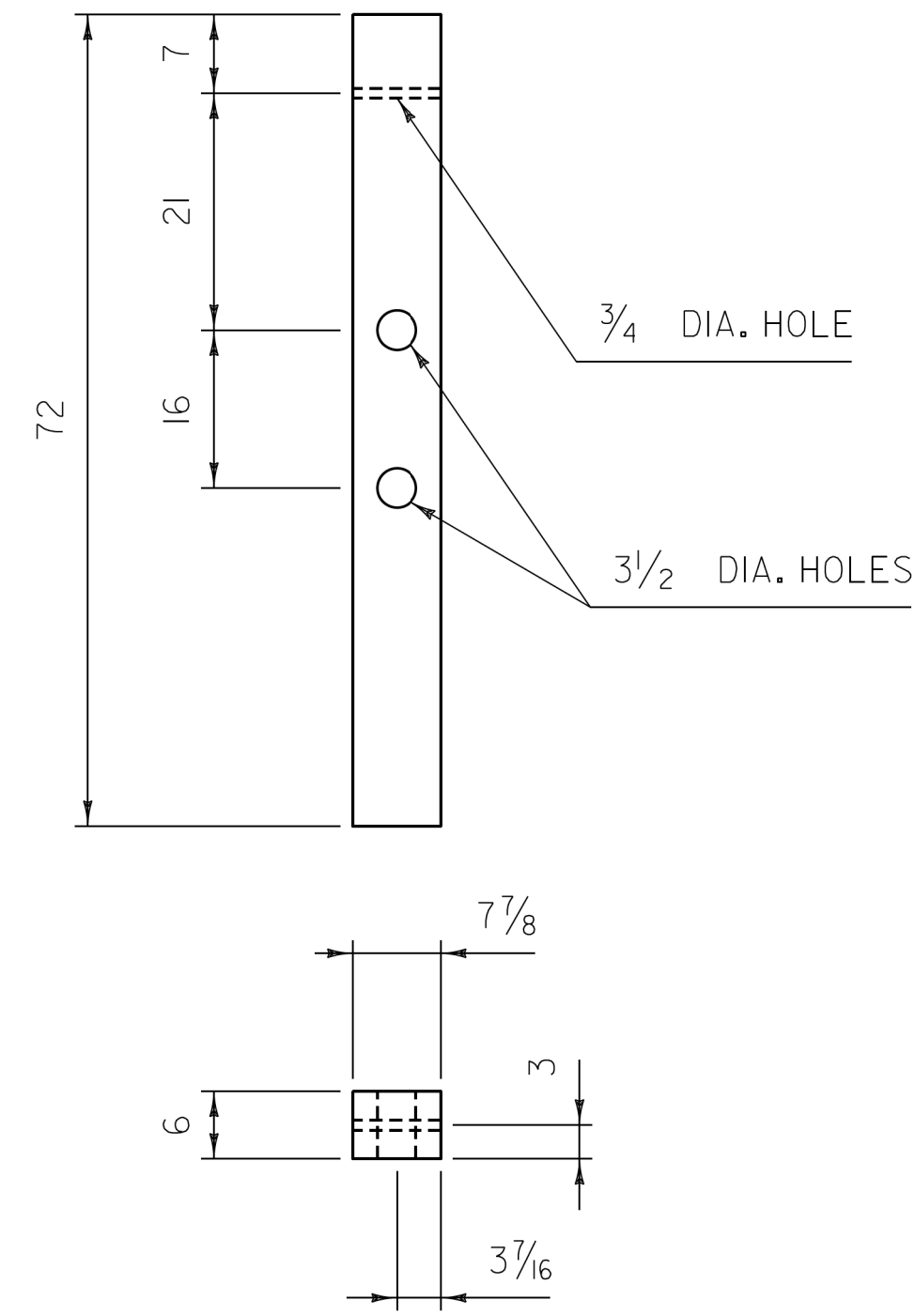
**SAFETY EDGE DETAILS**

REV.	DATE	DESCRIPTION
0	MAR. 29, 2016	ORIGINAL APPROVAL
1	JAN. 5, 2018	ANNOTATION CORRECTIONS
OTHER DETAILS REQUIRED: NONE		
DETAILS APPROVED FOR USE BY HIGHWAY SAFETY & DESIGN		

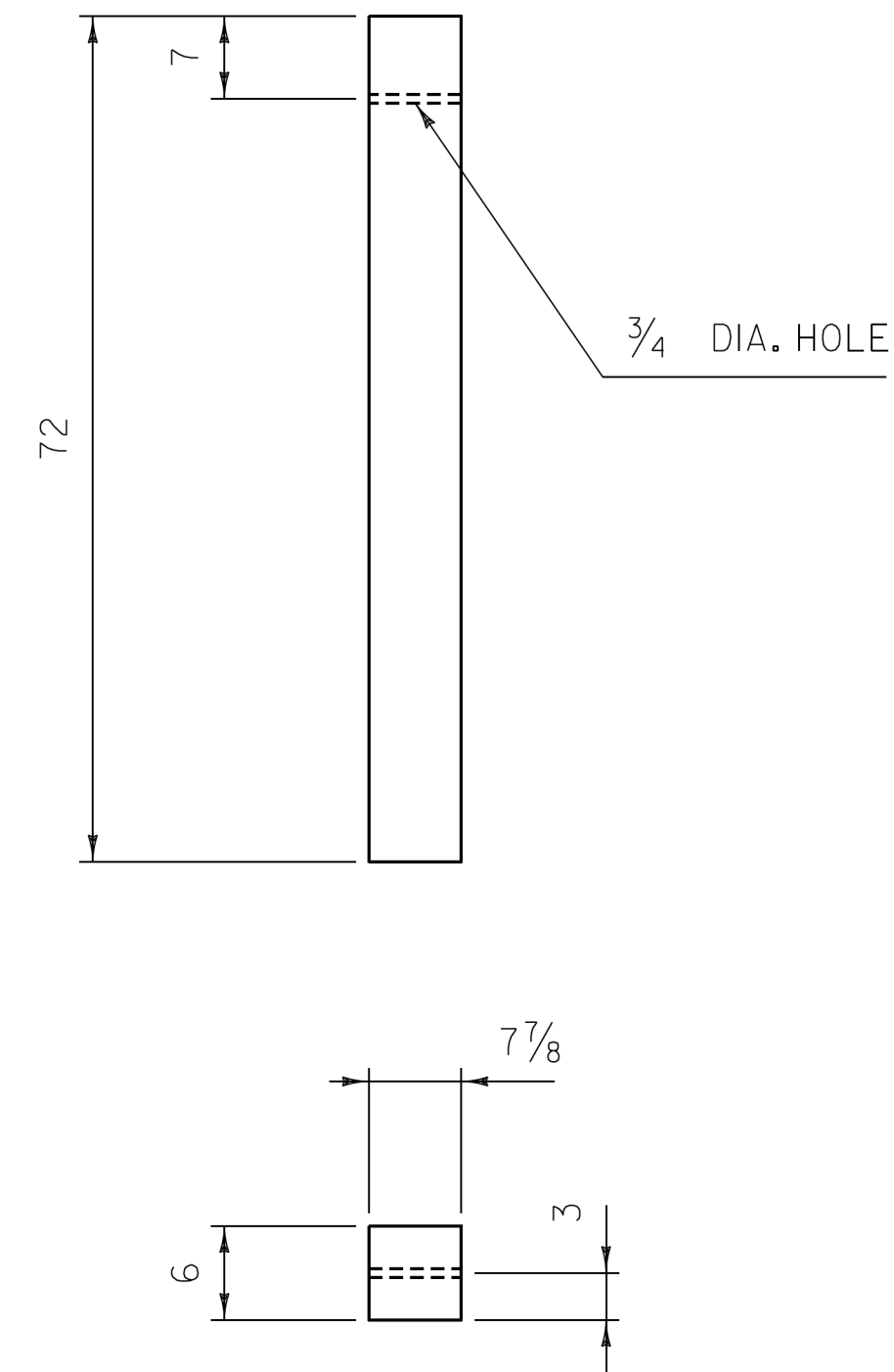


**HIGHWAY SAFETY  
& DESIGN DETAIL**

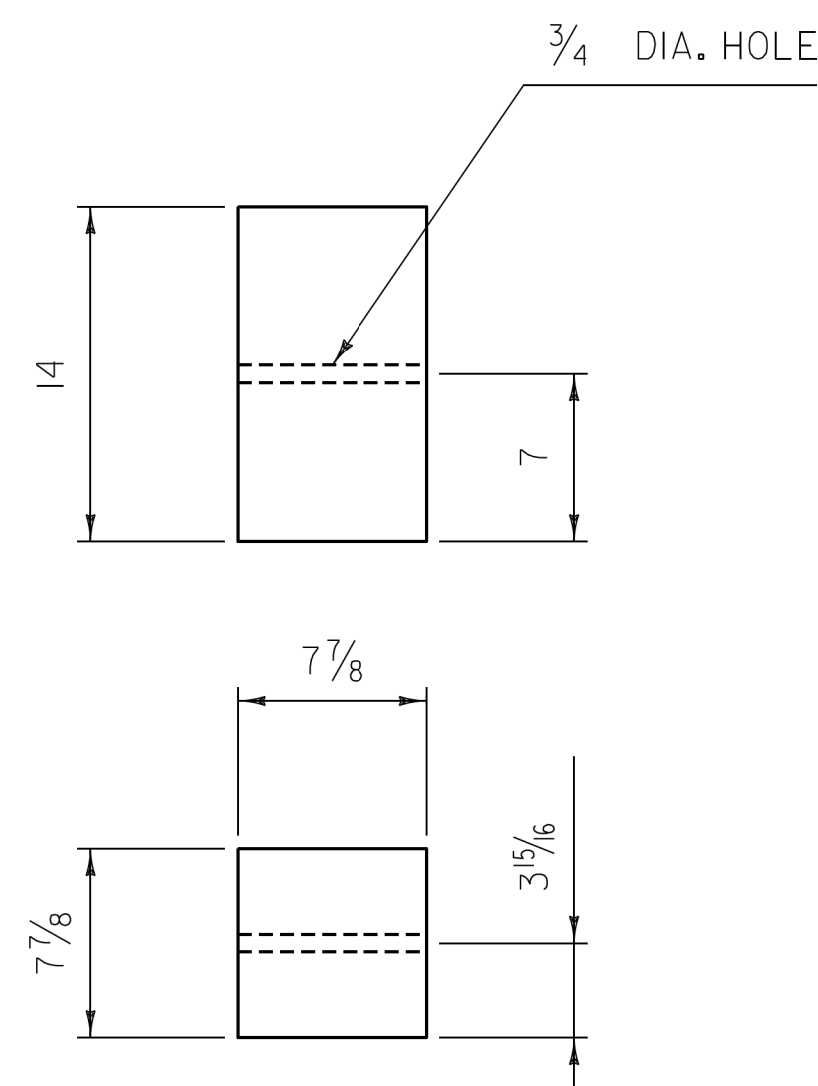
**HSD-400.01**



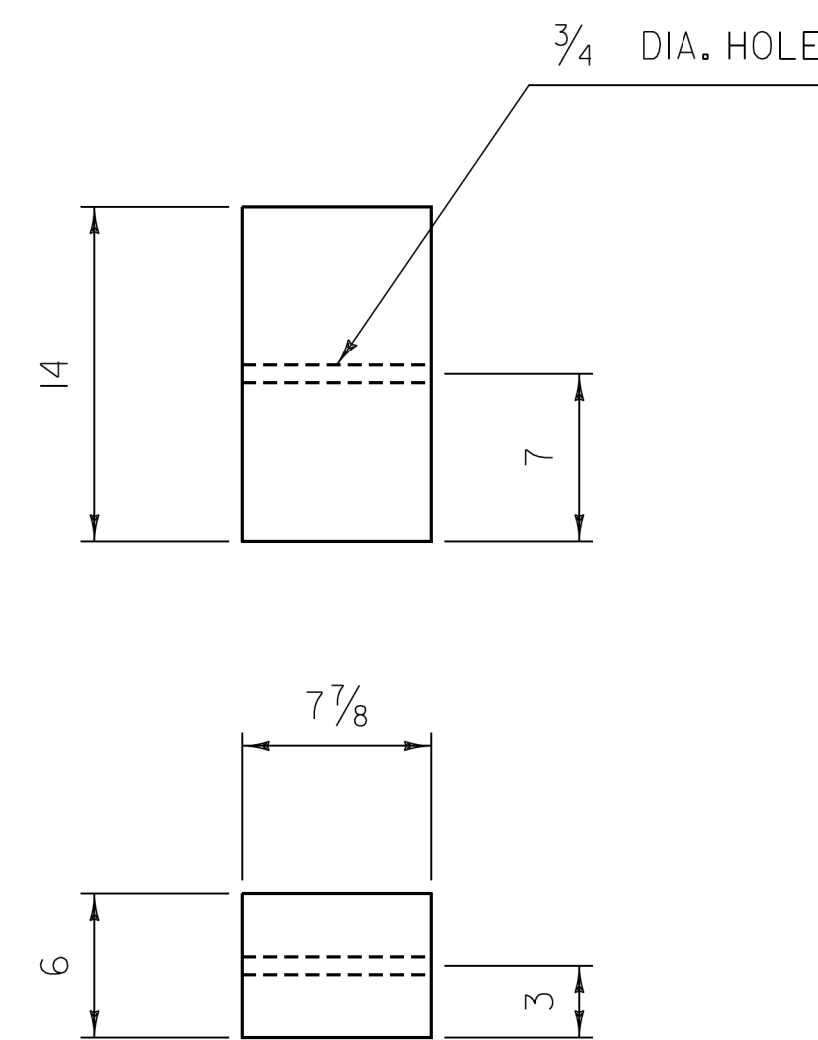
**CONTROLLED RELEASING TERMINAL  
(CRT) TIMBER POST (PDE09)**



**TIMBER GUARDRAIL POST (PDE07)**



**TRANSITION SPACER BLOCKOUTS (PDB07)**



**W-BEAM TIMBER BLOCKOUT (PDB01)**

**GENERAL NOTES:**

1. ALL MATERIAL DESIGNATIONS ARE AS IDENTIFIED IN "A GUIDE TO STANDARDIZED HIGHWAY BARRIER HARDWARE" AS PUBLISHED BY THE "AMERICAN ASSOCIATION OF STATE AND HIGHWAY TRANSPORTATION OFFICIALS" (AASHTO), ASSOCIATED GENERAL CONTRACTORS OF AMERICA (AGC) AND THE AMERICAN ROAD AND TRANSPORTATION BUILDERS ASSOCIATION (ARTBA).
2. CRT TIMBER POSTS SHALL BE INSTALLED SO THAT THE CENTER OF THE TOP 3 1/2 INCH HOLE IS AT GROUND LEVEL.
3. ALL TIMBER SHALL RECEIVE A PRESERVATION TREATMENT IN ACCORDANCE WITH AASHTO M33 AFTER ALL HOLES ARE DRILLED AND END CUTS ARE MADE.
4. ALL DIMENSIONS IN INCHES.

REV.	DATE	DESCRIPTION
0	JUN. 9, 2015	ORIGINAL APPROVAL
OTHER DETAILS REQUIRED: NONE		
DETAILS APPROVED FOR USE BY HIGHWAY SAFETY & DESIGN		

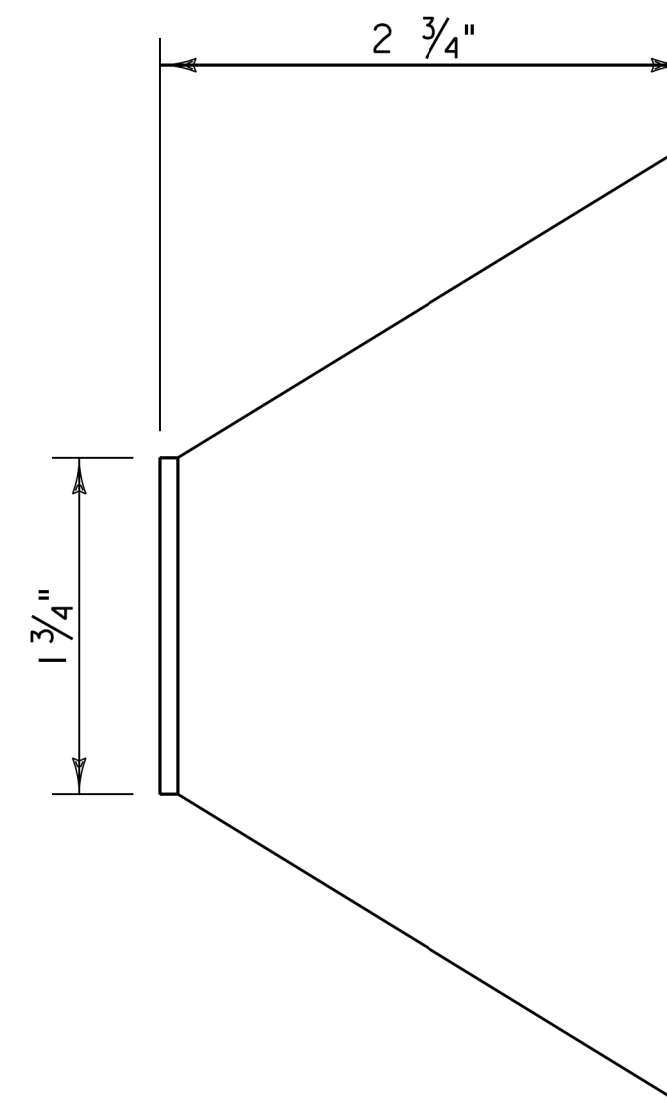
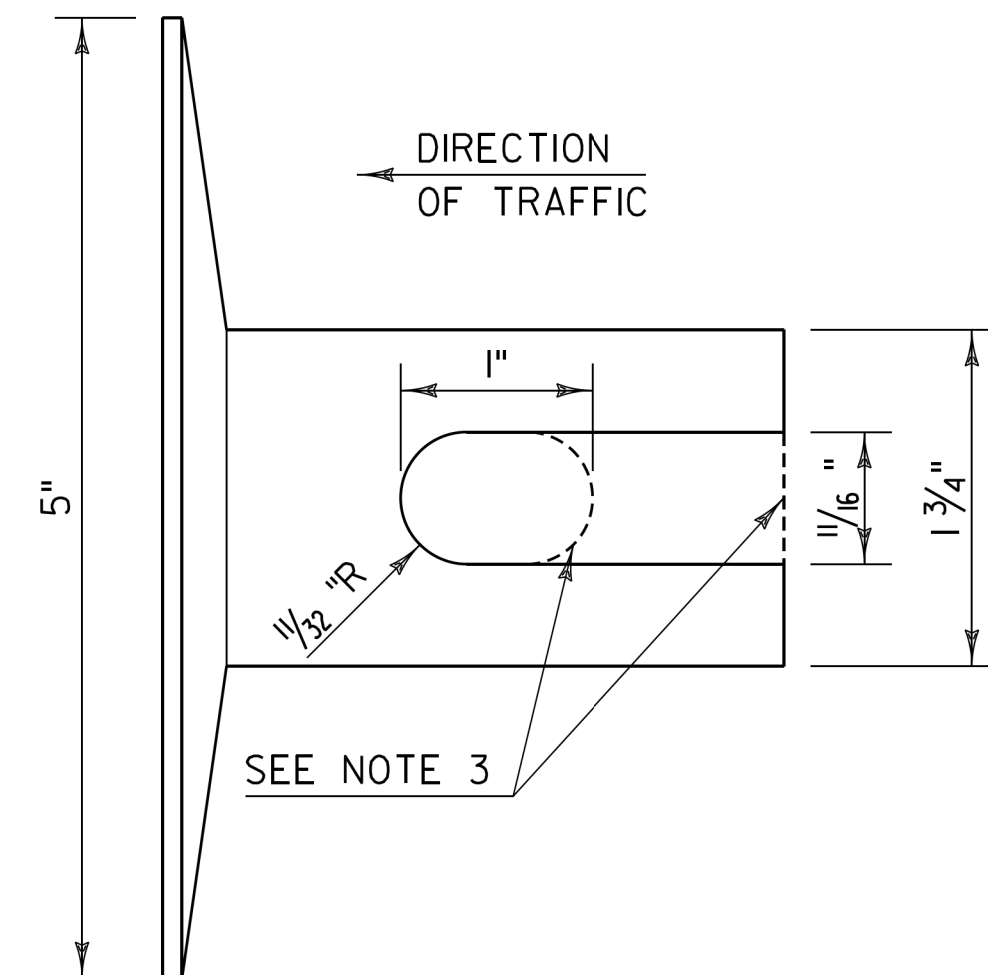
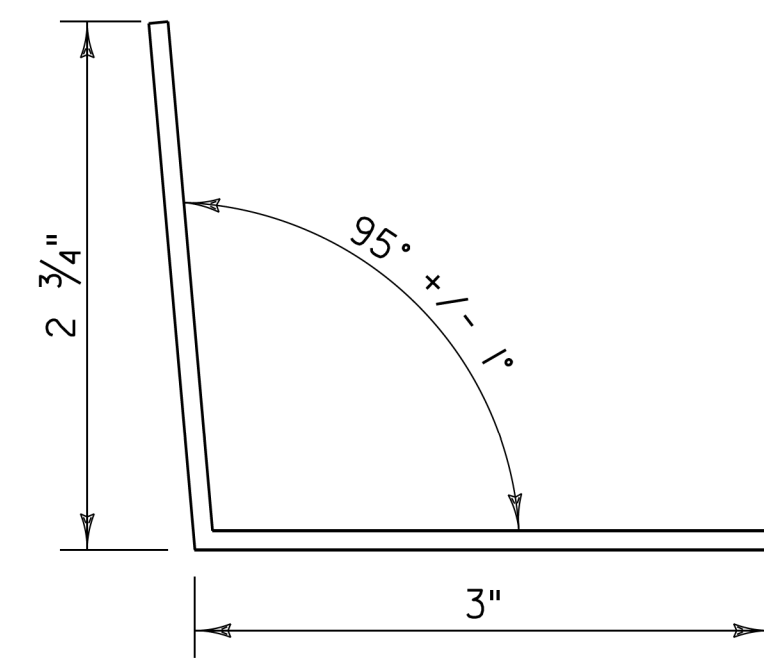
**POST AND BLOCKOUT DETAILS  
FOR STEEL BEAM GUARDRAIL, GALVANIZED**



**HIGHWAY SAFETY  
& DESIGN DETAIL  
HSD - 621.01**



### GUARDRAIL DELINEATOR DETAIL



#### NOTES:

1. GUARDRAIL DELINEATOR BASE MATERIAL SHALL BE 0.10 INCH THICK ALUMINUM IN ACCORDANCE WITH SUBSECTION 728.04 DELINEATION DEVICES.
2. GUARDRAIL DELINEATORS SHALL HAVE WHITE RETROREFLECTIVE SHEETING, EQUAL TO OR EXCEEDING TYPE III IN ACCORDANCE WITH SUBSECTION 750.08(B)(3) ON THE RIGHT SIDE OF THE TRAVELED WAY AND YELLOW RETROREFLECTIVE SHEETING EQUAL TO OR EXCEEDING TYPE VII IN ACCORDANCE WITH SUBSECTION 750.08(B)(7) ON THE LEFT SIDE OF THE TRAVELED WAY IN RESPECT TO APPROACHING TRAFFIC. ON ONE DIRECTIONAL ROADWAYS RETROREFLECTIVE SHEETING MAY BE OMITTED ON FACES WHERE THERE WILL BE NO APPROACHING TRAFFIC.
3. HOLE MAY BE USED IN PLACE OF SLOT.

REV.	DATE	DESCRIPTION
0	NOV. 3, 2015	ORIGINAL APPROVAL
1	FEB. 27, 2017	UPDATED NAME, MINOR CORRECTIONS AND ADDED GUARDRAIL DELINEATOR DETAIL
OTHER DETAILS REQUIRED: NONE		
DETAILS APPROVED FOR USE BY HIGHWAY SAFETY & DESIGN		

### GUARDRAIL TERMINAL LABEL DETAIL



#### NOTES:

- I. LINE ONE SHALL INDICATE THE INSTALLATION YEAR (YYYY).
- II. LINE TWO SHALL INDICATE THE MODEL AS IDENTIFIED ON THE APPROVED PRODUCTS LIST. FOR GENERIC INSTALLATIONS THE STANDARD DRAWING DESIGNATION OR NAME AS IDENTIFIED IN THE FHWA ELIGIBILITY LETTER SHALL BE USED.
- III. LINE THREE SHALL INDICATE ADDITIONAL MODEL INFORMATION IF NECESSARY.
- IV. LINE FOUR SHALL INDICATE FLARED (FLRD) OR TANGENT (TANG).
- V. LEGEND SHALL BE SIZE 3/4 INCH ARIEL FONT.
- VI. LEGEND SHALL BE BLACK ON A WHITE BACKGROUND, LEGEND AND BACKGROUND SHALL NOT BE REFLECTIVE.
- VII. SUITABLE MATERIAL SHALL BE USED SO AS TO NOT DETERIORATE DURING EXPOSURE TO WEATHER.
- VIII. LABELS SHALL BE APPLIED IN SUCH A WAY THAT THEY REMAIN INTACT DURING THE LIFE OF THE TERMINAL.
- IX. FOR W-BEAM GUARDRAIL, LABEL SHALL BE PLACED ON THE TOP OF POST ONE FACING AWAY FROM TRAFFIC.
- X. FOR BOX BEAM GUARDRAIL, LABEL SHALL BE PLACED ON THE BOX BEAM ADJACENT TO POST ONE FACING AWAY FROM TRAFFIC.
- II. PAYMENT SHALL BE INCIDENTAL TO OTHER TRAFFIC BARRIER ITEMS.

## MISCELLANEOUS GUARDRAIL DETAILS



HIGHWAY SAFETY  
& DESIGN DETAIL  
HSD-621.06