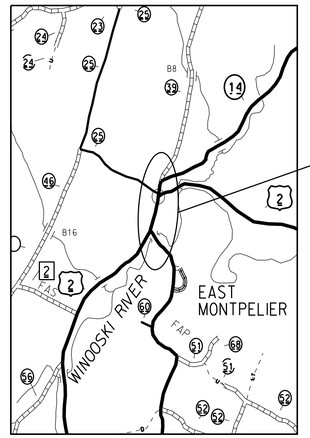
VTRANS STANDARDS

B-5	SLOPE GRADING, EMBANKMENTS, MUCK	06/01/1994
B-7I	STANDARD FOR RESIDENTIAL AND COMMERCIAL DRIVES	07/08/2005
C-10	CURBING	02/11/2008
C-2A	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK ADJACENT TO CURB	10/14/2005
C-2B	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK AND GREEN STRIP	10/14/2005
C-3A	SIDEWALK RAMPS	03/10/2008
C-3B	SIDEWALK RAMPS AND MEDIAN ISLANDS	03/10/2008
D-1	PRECAST REINFORCED CONCRETE DROP INLET DETAILS	06/01/1994
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	08/08/1995
E-127	ROUTE MARKINGS AT RURAL INTERSECTIONS	08/08/1995
E-136B	STATE ROUTE MARKER SIGN DETAILS	08/08/1995
E-145A	REGULATORY SIGN DETAILS - LANE USE CONTROL SIGNS	12/23/1994
E-170	TRAFFIC CONTROL SIGNALS PEDESTAL POST MOUNTED	11/04/1999
E-171A	TRAFFIC CONTROL SIGNALS GENERAL NOTES & DETAILS	08/09/1995
E-191	PAVEMENT MARKING DETAILS	02/01/1999
E-193	PAVEMENT MARKING DETAILS	08/18/1995
T-1	TRAFFIC CONTROL GENERAL NOTES	04/24/2016
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	08/06/2012
T-24	TRAFFIC CONTROL FOR MAINTENANCE PAVEMENT MARKING OPERATION	08/06/2012
T-28	CONSTRUCTION SIGN DETAILS	08/06/2012
T-29	CONSTRUCTION SIGN DETAILS	08/06/2012
T-30	CONSTRUCTION SIGN DETAILS	08/06/2012
T-31	CONSTRUCTION SIGN DETAILS	08/06/2012
T-45	SQUARE TUBE SIGN POST AND ANCHOR	01/02/2013
T-56	STANDARD SIGN PLACEMENT	10/26/2015
T-92	ROUTE MARKER FRAME DETAILS	10/26/2015
T-93	DESTINATION SIGN DETAILS	10/26/2015

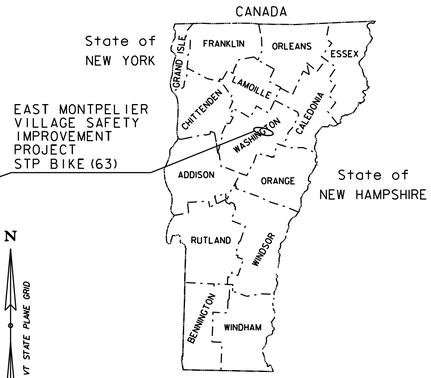
INDEX OF SHEETS

PROPOSED IMPROVEMENT

TOWN OF EAST MONTPELIER
COUNTY OF WASHINGTON
VILLAGE SAFETY IMPROVEMENT PROJECT



LOCATION MAP
NOT TO SCALE



EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJECT
STP BIKE (63)

PROJECT LOCATION: VT ROUTE 14 AND US ROUTE 2 CORRIDOR IN EAST MONTPELIER VILLAGE BETWEEN THE SOUTHERN AND NORTHERN INTERSECTIONS OF VT ROUTE 14

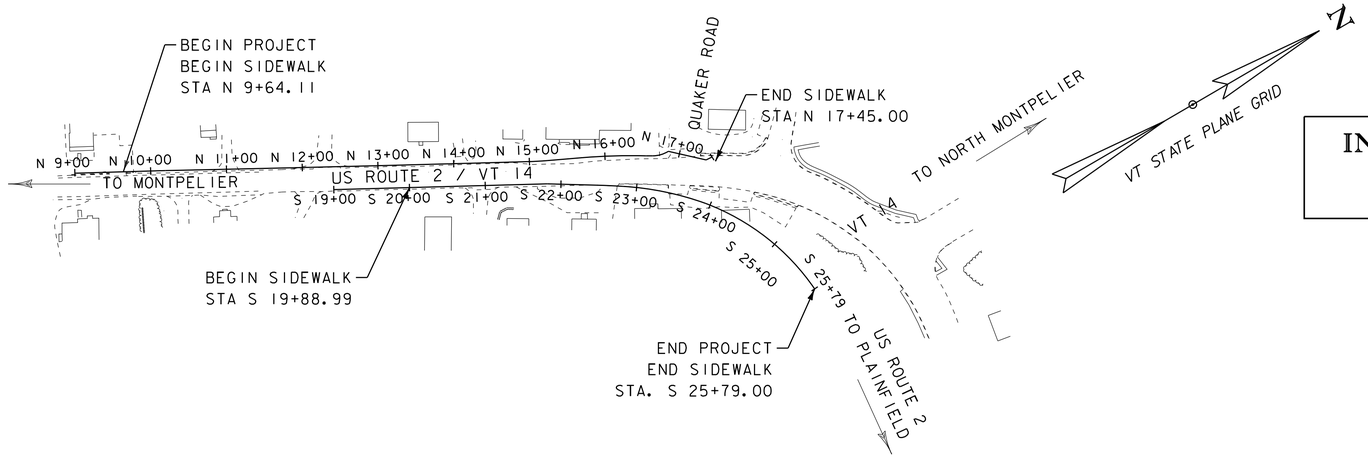
PROJECT DESCRIPTION: WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES SHOULDER WIDENING, PORTLAND CEMENT CONCRETE SIDEWALKS, VERTICAL GRANITE CURBING, PAVEMENT STRIPING, GRADING, SIGNING, DRAINAGE MODIFICATIONS, AND OTHER HIGHWAY RELATED ITEMS

LENGTH OF SIDEWALK : 1107 FEET (0.21 MI.)

LENGTH OF PROJECT : 984 FEET (0.19 MI.)

TRAFFIC DATA

HIGHWAY SECTION	AADT		DHV		%T		%D		ADTT		CUM. ESALS	CUM. ESALS
	2019	2029	2019	2029	2019	2029	2019	2029	2019	2029	(2019-2029)	(2019-2039)
U.S. 2 MM 2.7250 - MM 2.9650	13500	14100	1500	1600	7.5	9.1	59	59	1100	1400	3,447,000	7,822,000
POSTED & DESIGN SPEED 35 MPH												



SCALE 1" = 100'-0"
100 0 100

IN-PROGRESS FINAL PLANS
MARCH, 2018

NOT FOR CONSTRUCTION

DISCLAIMER
LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE TOWN OF EAST MONTPELIER'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

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

QUALITY ASSURANCE PROGRAM : LEVEL II

SURVEYED BY : DuBOIS & KING, INC.
SURVEYED DATE : JULY 21, 2014

DATUM GPS DERIVED
VERTICAL NAVD 88
HORIZONTAL NAV 83

DuBois & King inc.

TOWN OF EAST MONTPELIER
TOWN MANAGER

APPROVED _____ DATE _____

PROJECT MANAGER : BRIAN M. BRESLEND, P.E.

PROJECT NAME : EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJECT

PROJECT NUMBER : STP BIKE (63)

SHEET 1 OF 40

GENERAL INFORMATION

SYMBOLOGY LEGEND NOTE

THE SYMBOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOGY. THE SYMBOLOGY 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. SYMBOLOGY 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
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
■	BNDNS	BOUND SET
⧈	BNDNS	BOUND TO BE SET
●	IPNS	IRON PIN SET
◎	IPNS	IRON PIN TO BE SET
⊠	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

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

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

PROPOSED GEOMETRY CODES

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

UTILITY SYMBOLOGY

UNDERGROUND UTILITIES

- 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)

- 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 SYMBOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOGY

- CLEAR ZONE
- PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

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

CONVENTIONAL BOUNDARY SYMBOLOGY

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
- PROPERTY LINE (P/L)
- SR SR SR — SLOPE RIGHTS
- 6f — 6f — 6F PROPERTY BOUNDARY
- 4f — 4f — 4F PROPERTY BOUNDARY
- HAZ — HAZ — HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLOGY

EPSC MEASURES

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

ENVIRONMENTAL RESOURCES

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

ARCHEOLOGICAL & HISTORIC

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

CONVENTIONAL TOPOGRAPHIC SYMBOLOGY

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

FINAL – NOT FOR CONSTRUCTION

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: ...\CADD FILES\622472Flleg.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: P. DAY
CONVENTIONAL SYMBOLOGY LEGEND SHEET

PLOT DATE: 3/23/2018
DRAWN BY: P. DAY
CHECKED BY: B. BRESLEND
SHEET 2 OF 40

GENERAL

1. TOPOGRAPHY AND PLANIMETRIC DATA SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEY COMPLETED BY DUBOIS & KING, INC. IN 2014 AND PARTIALLY BY OTHERS.

2. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATIONS.

3. FORMATION OF EMBANKMENTS (INCLUDING COMPACTION) SHALL BE CONSTRUCTED IN ACCORDANCE WITH DIVISION 200 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION. SUITABLE MATERIAL SHALL MEET THE REQUIREMENTS OF DIVISION 700. PAYMENT FOR CONSTRUCTION OF THE ROADWAY EMBANKMENT USING EXCAVATED MATERIAL SHALL BE CONSIDERED INCIDENTAL TO ITEM 203.15 "COMMON EXCAVATION" OR ITEM 203.27 "UNCLASSIFIED CHANNEL EXCAVATION".

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING FIELD MEASUREMENTS OF ALL EXISTING CONDITIONS AFFECTING THE WORK. ANY DISCREPANCIES IN DIMENSIONS, CHARACTER OR EXTENT OF EXISTING FEATURES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE ADVANCING THE WORK. WORKING DRAWINGS REQUIRED FOR VARIOUS ITEMS OF THE WORK SHALL INDICATE THE ACTUAL FIELD MEASUREMENTS BY THE CONTRACTOR PRIOR TO SUBMITTAL FOR THE ENGINEER'S APPROVAL AND SHALL BE SO NOTED.

5. ITEM 201.10 "CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS" HAS BEEN INCLUDED TO REMOVE ANY VEGETATION, PARTIAL AND FULL TREE REMOVAL (INCLUDING STUMPS), THINNING AND TRIMMING FOR SIGNS, AND ANY ASSOCIATED GRUBBING WITHIN ESTABLISHED ROW. 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.

6. ALL WOODY DEBRIS (TREE LIMBS, BRANCHES, ETC.) SHALL BE CHIPPED AND MULCHED ON-SITE AND USED FOR TEMPORARY EROSION CONTROL. ALL CUT TREE LOGS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ALL STUMPS SHALL BE GROUND DOWN ON SITE AND THE CHIPS USED AS EROSION CONTROL. PAYMENT FOR THE CUTTING AND DISPOSAL OF TREE LOGS, CHIPPING AND SPREADING OF WOODY DEBRIS AND GRINDING OF STUMPS SHALL BE PAID FOR UNDER ITEM 201.10, "CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS".

7. RESTORATION OF DISTURBED AREAS: RESTORE DISTURBED AREAS, EXCEPT STONE FILL AREAS AND GRUBBING AREAS, WITH FOUR INCHES TOPSOIL, SEED, FERTILIZER AND MULCH, UNLESS THE ENGINEER DIRECTS THE USE OF SUITABLE EXCAVATED MATERIAL.

8. ALL COMMERCIAL AND RESIDENTIAL PROPERTY OWNERS SHALL BE GIVEN 48 HOURS ADVANCE NOTIFICATION WHEN CONSTRUCTION IS TO TAKE PLACE ADJACENT TO PROPERTIES.

9. ALL SLOPES, PLACEMENT OF EMBANKMENT MATERIAL AND STEPPING OF LAYERS INTO OLD GROUND SHALL BE IN ACCORDANCE WITH STANDARD DRAWING B-5.

10. TACK COAT / EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.025-0.04 GAL/SY BETWEEN SUCCESSIVE COURSES OF NEW PAVEMENT AND 0.08 GAL/SY BETWEEN EXISTING/COLD PLANED SURFACES AND A NEW SURFACE OR AS DIRECTED BY THE ENGINEER.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING AND UNDERSTANDING ALL APPLICABLE ENVIRONMENTAL PERMITS AND ENSURE THAT ALL CONSTRUCTION REQUIREMENTS ARE MET.

12. AT COMPLETION OF GRADING, THE SLOPES, DITCHES, AND ALL DISTURBED AREAS SHALL BE SMOOTH AND FREE OF POCKETS WITH SUFFICIENT SLOPE TO ENSURE DRAINAGE.

13. NO WORK BEYOND THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS WILL BE ALLOWED. WORKING OUTSIDE OF THESE LIMITS MAY TRIGGER ADDITIONAL PERMITTING REQUIREMENTS, WHICH WILL BE THE CONTRACTOR'S RESPONSIBILITY.

14. THE CONTRACTOR SHALL SUBMIT SEDIMENT AND EROSION CONTROL METHODS TO THE ENGINEER FOR APPROVAL 14 DAYS PRIOR TO START OF WORK.

15. TYPICAL CROSS SECTIONS ARE MEANT FOR GUIDANCE ONLY. FIELD CONDITIONS MAY VARY AND MUST BE VERIFIED BY THE CONTRACTOR.

UTILITIES

1. UTILITIES INFORMATION SHOWN HEREON WAS OBTAINED FROM THE BEST AVAILABLE SOURCES AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE, SHOWN OR NOT SHOWN HEREON. CONTRACTOR SHALL CONNECT OR RECONNECT ALL UTILITIES TO THE NEAREST SOURCE THROUGH COORDINATION WITH THE UTILITY OWNER.

2. THE CONTRACTOR SHALL NOT DISRUPT ANY EXISTING UTILITY SERVICE (PRIVATE OR PUBLIC) WITHOUT WRITTEN AUTHORIZATION FROM VTRANS.

3. THE CONTRACTOR SHALL CONTACT "DIG SAFE" [1-888-DIG-SAFE (1-888-344-7233)] AND ALL AFFECTED UTILITY COMPANIES PRIOR TO PERFORMING ANY EXCAVATION, IN ACCORDANCE WITH DIG SAFE'S RULES OF NOTIFICATION.

4. ALL UTILITY POLES ARE TO REMAIN UNDISTURBED UNLESS OTHERWISE NOTED IN THESE PLANS.

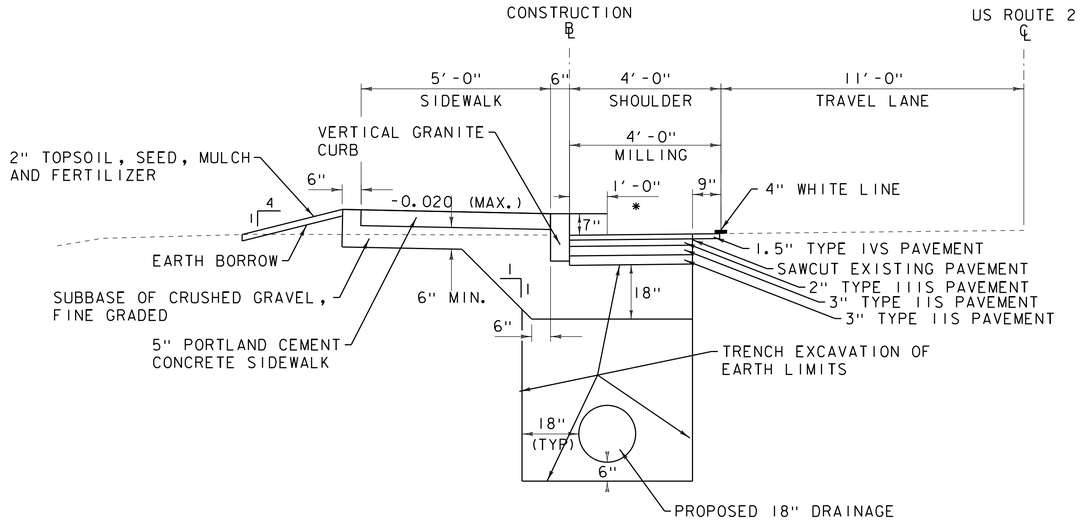
5. SUBSURFACE FEATURES SUCH AS ELECTRIC AND TELEPHONE LINES, WATER LINES, SEWER LINES, STORM DRAIN AND CULVERTS, ETC., ENCOUNTERED IN THE CONSTRUCTION OF THE PROJECT SHALL BE PROTECTED, SUPPORTED, OR REMOVED AND REPLACED BY THE CONTRACTOR UNLESS OTHERWISE NOTED ON THE PLANS. THE COST OF THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT UNLESS PAYMENT IS SPECIFICALLY NOTED AS A SEPARATE PAY ITEM. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES AND/OR HIGHWAY DEPARTMENTS WHEN THE WORK INVOLVES THEIR RESPECTIVE FACILITIES. SEE THE UTILITIES SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

6. ANY SURFACE OR SUBSURFACE FEATURES DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION AT LEAST EQUAL TO THAT IN WHICH THEY WERE FOUND IMMEDIATELY PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL COSTS ASSOCIATED WITH THE RESTORATION SHALL BE AT THE SOLE EXPENSE OF THE CONTRACTOR.

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

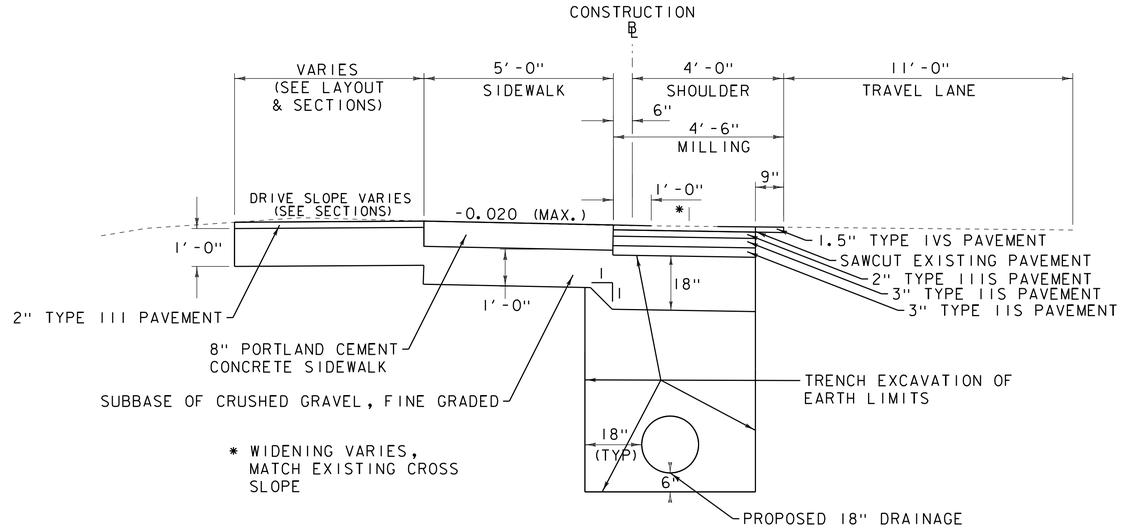
FILE NAME: 622472Fnotes.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: P. DAY
PROJECT NOTES SHEET

PLOT DATE: 3/23/2018
DRAWN BY: O. DALMER
CHECKED BY: C. LATHROP



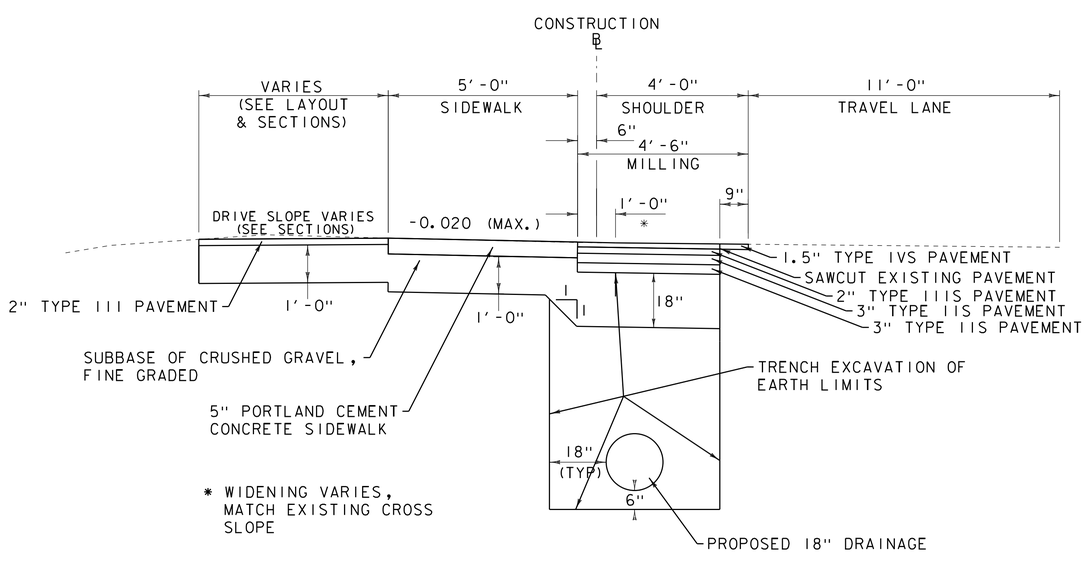
TYPICAL SIDEWALK SECTION WITH NEW CURB

STA. N 10+00 - STA. N 10+91
STA. N 11+34 - STA. N 12+82



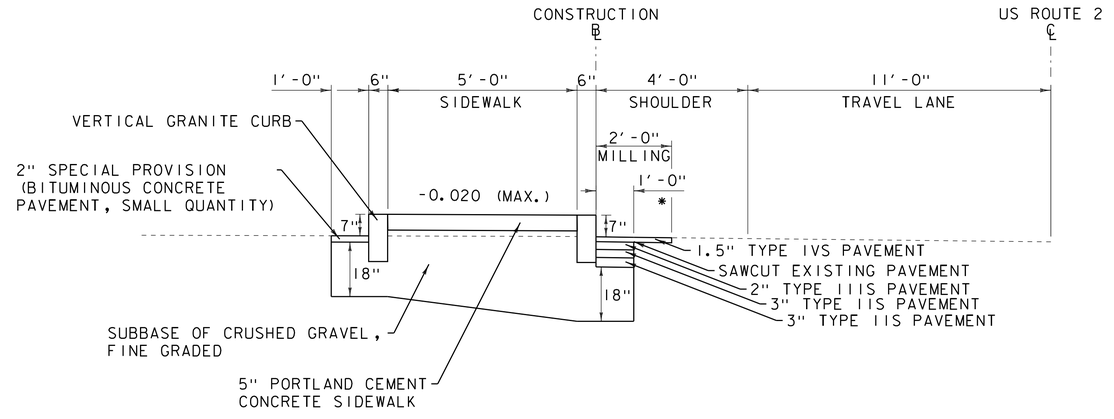
TYPICAL FLUSH SIDEWALK/COMMERCIAL DRIVEWAY SECTION

STA. N 9+64 - STA. N 10+00
STA. N 10+91 - STA. N 11+34
STA. N 13+03 - STA. N 13+59



TYPICAL FLUSH SIDEWALK / RESIDENTIAL DRIVEWAY SECTION

STA. N 12+82 - STA. N 13+03



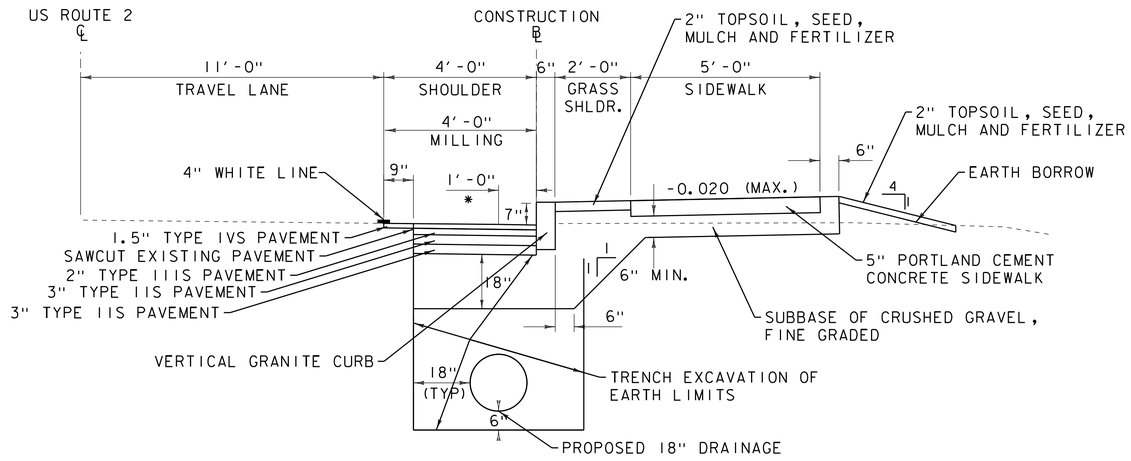
TYPICAL SIDEWALK SECTION WITH DOUBLE CURB

STA. N 16+09 - STA. N 16+95

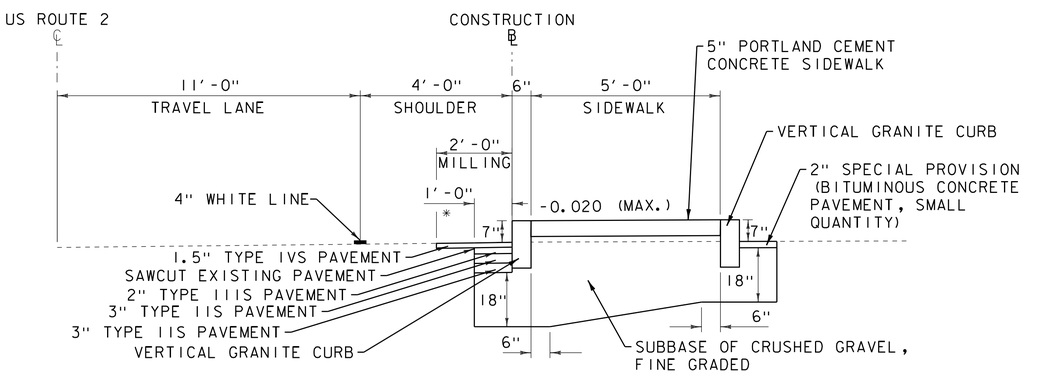
NOT TO SCALE

FINAL – NOT FOR CONSTRUCTION

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.	
PROJECT NUMBER: STP BIKE (63)	
FILE NAME: ...\CADD FILES\622472Fityp.dgn	PLOT DATE: 3/23/2018
PROJECT LEADER: B. BRESLEND	DRAWN BY: P. DAY
DESIGNED BY: P. DAY	CHECKED BY: B. BRESLEND
TYPICAL SECTION SHEET 1	SHEET 4 OF 40

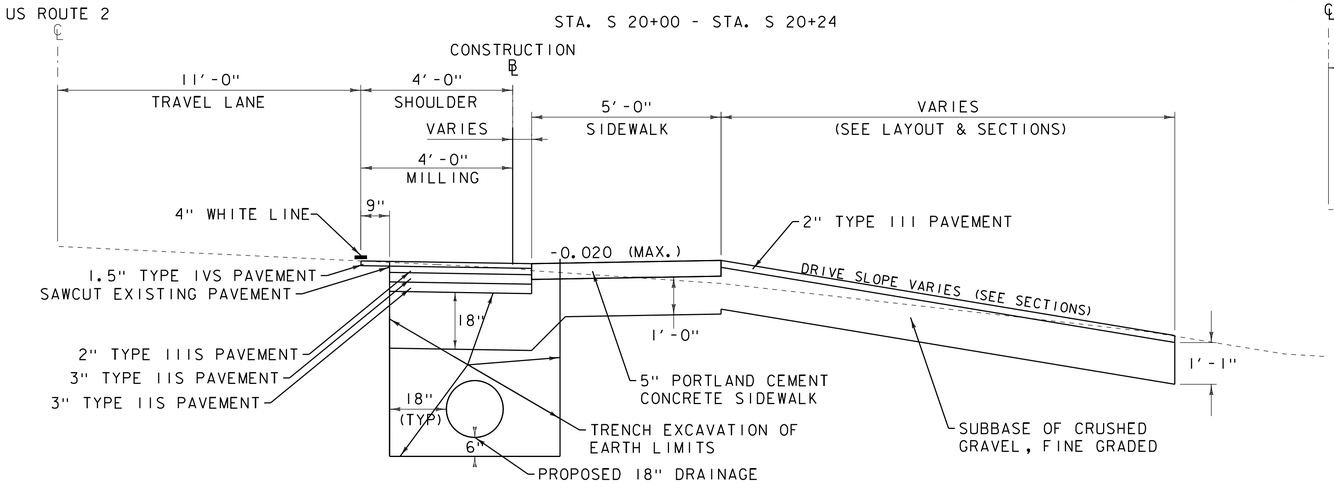


TYPICAL SIDEWALK SECTION WITH GRASS STRIP



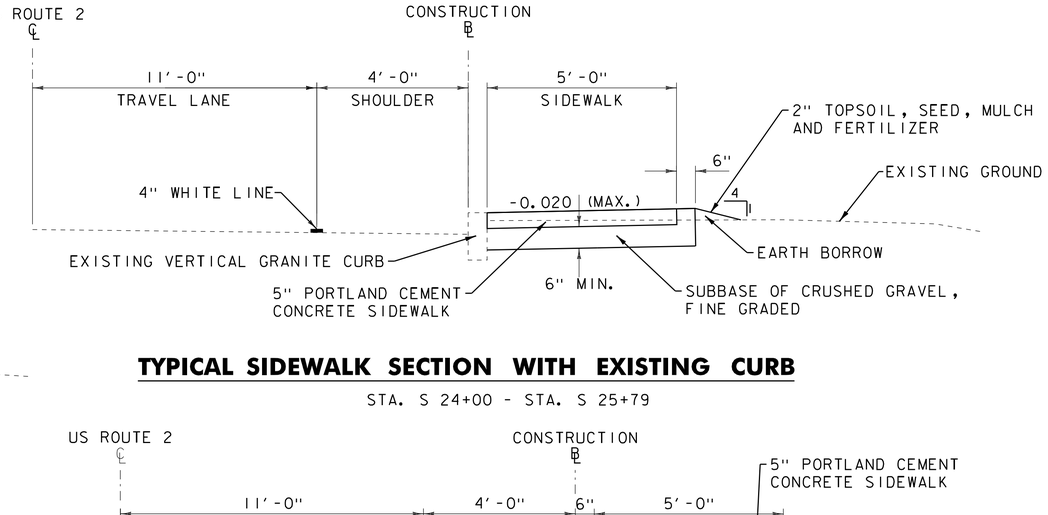
TYPICAL SIDEWALK SECTION WITH DOUBLE CURB

STA. S 22+52 - STA. S 22+93
STA. S 23+38 - STA. S 24+00



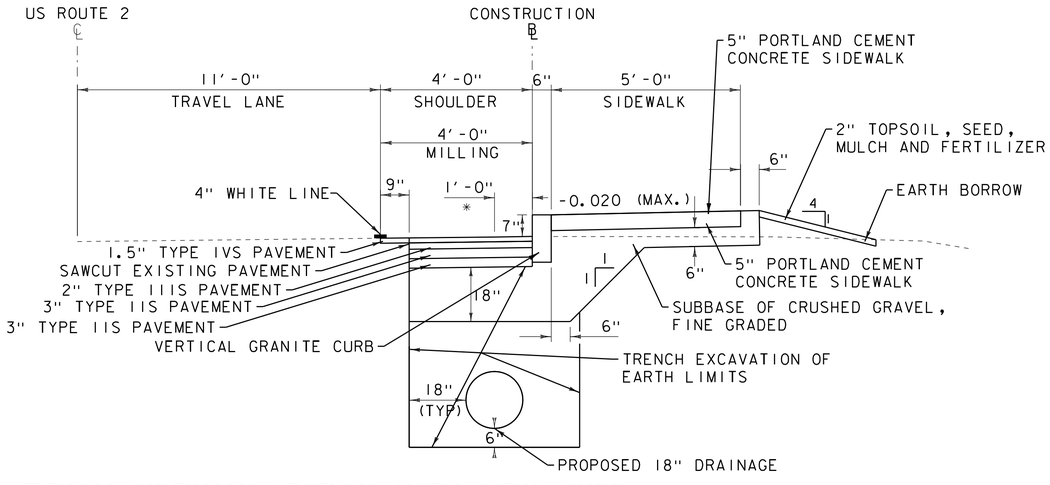
TYPICAL FLUSH SIDEWALK DRIVEWAY SECTION

STA. S 20+00 - STA. S 20+24



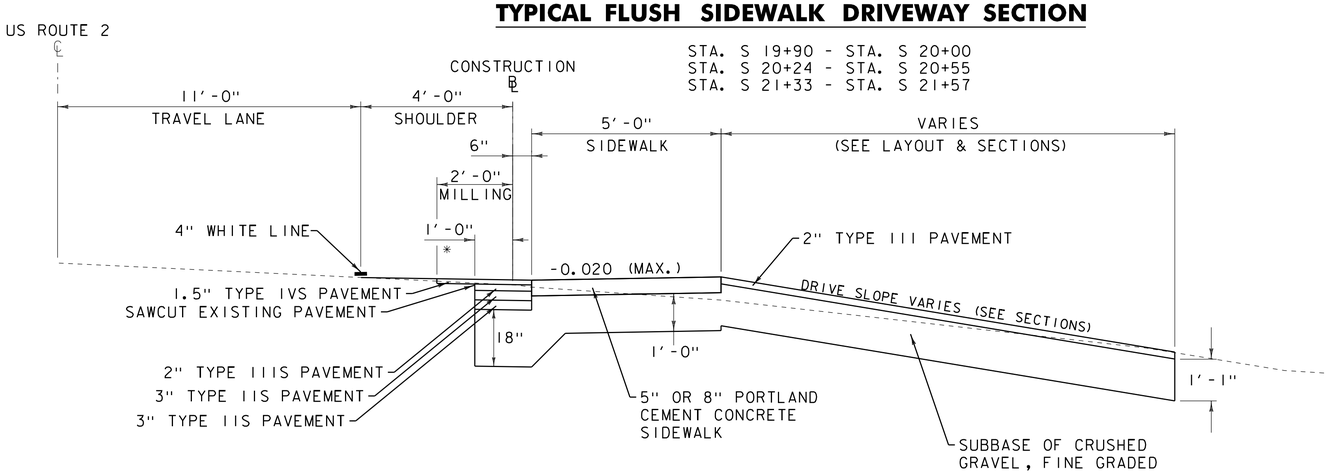
TYPICAL SIDEWALK SECTION WITH EXISTING CURB

STA. S 24+00 - STA. S 25+79



TYPICAL SIDEWALK SECTION WITH NEW CURB

STA. S 19+90 - STA. S 20+00
STA. S 20+24 - STA. S 20+55
STA. S 21+33 - STA. S 21+57



TYPICAL FLUSH SIDEWALK DRIVEWAY SECTION

STA. S 20+55 - STA. S 21+33
STA. S 21+57 - STA. S 21+65

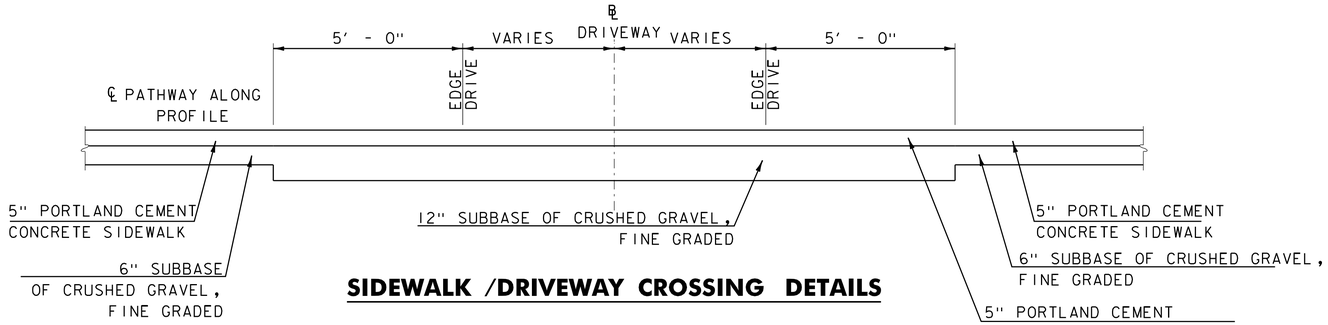
STA. S 22+25 - STA. S 22+52 (5")
STA. S 22+93 - STA. S 23+38 (8")

NOT TO SCALE

FINAL – NOT FOR CONSTRUCTION

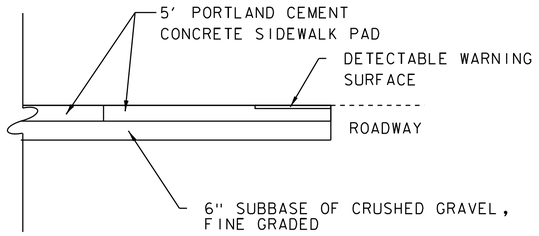
PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: ...\CADD FILES\622472Fityp.dgn PLOT DATE: 3/23/2018
PROJECT LEADER: B. BRESLEND DRAWN BY: G. CANTAVE
DESIGNED BY: G. CANTAVE CHECKED BY: B. BRESLEND
TYPICAL SECTION SHEET 2 SHEET 5 OF 40



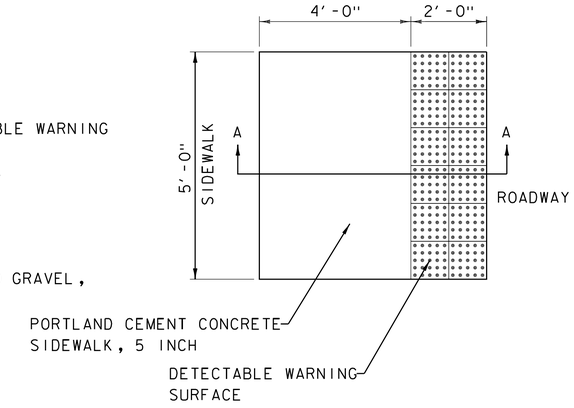
SIDEWALK /DRIVEWAY CROSSING DETAILS

NOTE: ALL BITUMINOUS CONCRETE PAVEMENT WORK, WHICH COULD INVOLVE SOME HAND-WORK (SUCH AS DRIVE AND SIDE ROAD APPROACHES AND AROUND DRAINAGE/UTILITY STRUCTURES) SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ITEM 406.25, "BITUMINOUS CONCRETE PAVEMENT (PG 58-34)".



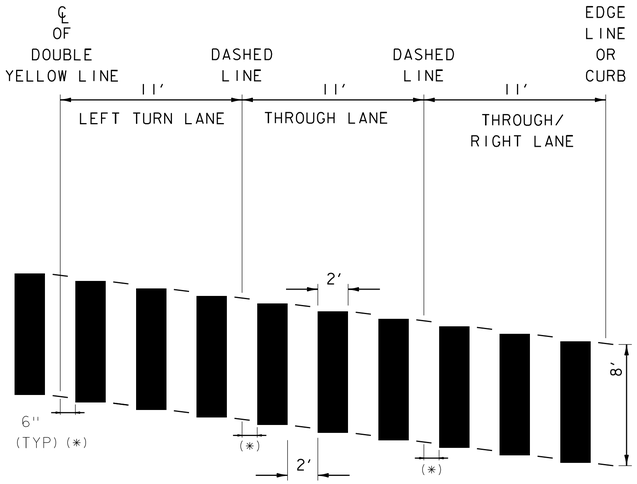
SECTION A–A
PORTLAND CEMENT CONCRETE PAD

NOT TO SCALE



PORTLAND CEMENT CONCRETE SIDEWALK PAD DETAIL

NOT TO SCALE

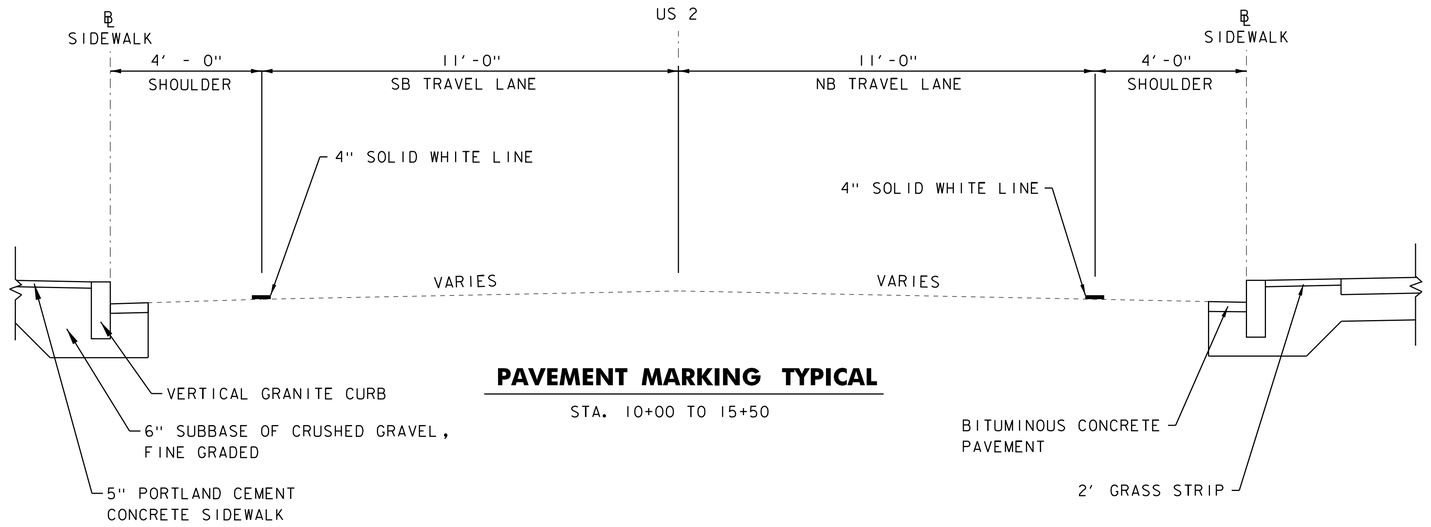


SKEWED CROSSWALK PATTERN DETAIL

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 OF THE CENTERLINE (DOUBLE YELLOW LINE OR LANE LINE). (OFFSET BLOCKS VERTICALLY TO ACHIEVE REQUIRED SKEW.)
5. ALWAYS START MEASURING FROM THE CENTERLINE OR LANE LINE RIGHT, WITH THE FLOW OF TRAFFIC.
6. PAINTED BLOCKS ARE THE 24 INCHES (TYPICAL).

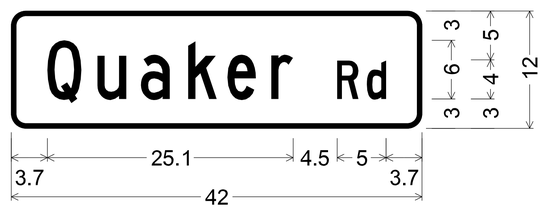
(*)7. THIS DISTANCE WILL INCREASE TO 12" FOR A 12 FOOT LANE



PAVEMENT MARKING TYPICAL

STA. 10+00 TO 15+50

STREET SIGN DETAIL VD3–1

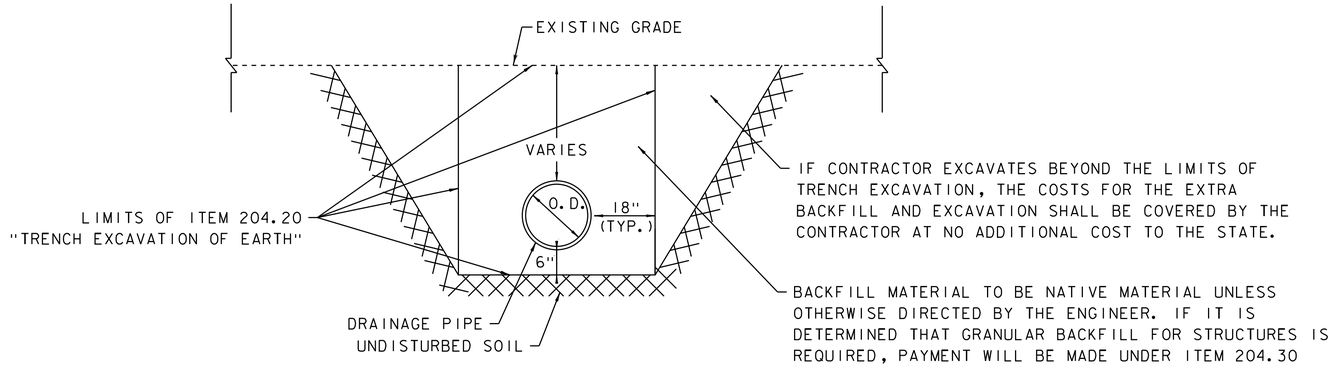


DOUBLE - SIDED STREET SIGN (EAST MONTPELIER);
1.5" Radius, 0.5" Border, White on Green;
[Quaker Rd] C;

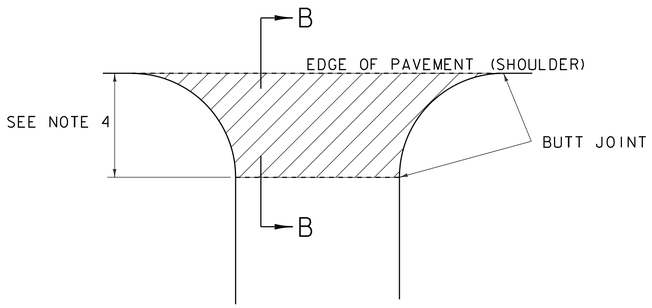
NOT TO SCALE

FINAL – NOT FOR CONSTRUCTION

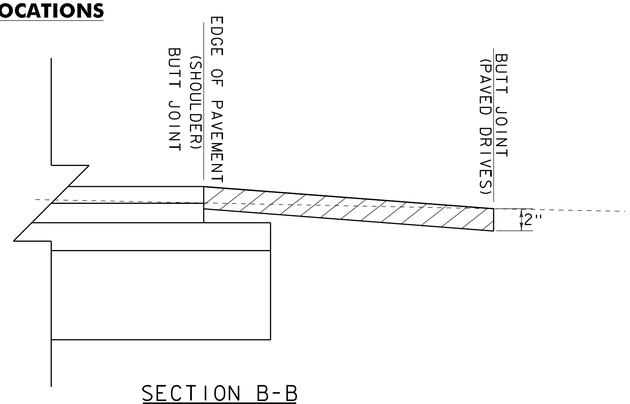
PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.	
PROJECT NUMBER: STP BIKE (63)	
FILE NAME: ...\CADD FILES\622472Fldet.dgn	PLOT DATE: 3/23/2018
PROJECT LEADER: B. BRESLEND	DRAWN BY: G. CANTAVE
DESIGNED BY: P. DAY	CHECKED BY: B. BRESLEND
DETAIL SHEET I	SHEET 6 OF 40



TYPICAL TRENCH BOX DETAIL
AT CULVERT REPLACEMENT LOCATIONS



PLAN



SECTION B-B

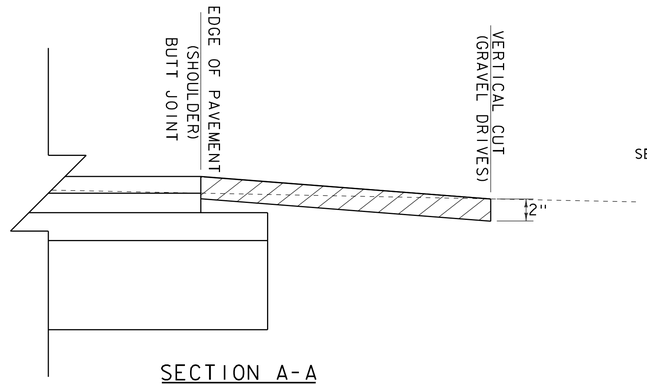
HANDWORK DETAILS FOR DRIVES - PAVED DRIVES
VT ROUTE 15

STATION	POSITION	TYPE	QUANTITY (SY)
10+92.	RT	PAVED	104.0
11+14.	LT	PAVED	168.0
12+93.	LT	GRAVEL	95.0
13+27.	LT	PAVED	190.0
13+53.	LT	PAVED	85.0
B 16+50.	LT	PAVED	104.0
B 19+79.	RT	GRAVEL	265.0
B 20+38.	RT	PAVED	58.0
B 20+52.	RT	PAVED	202.0
B 21+43.	RT	PAVED	298.0
B 22+38.	RT	GRAVEL	336.0
B 22+75.	RT	GRAVEL	42.0
B 23+16.	RT	GRAVEL	527.0
B 23+75.	RT	GRAVEL	59.0
B 30+50.	LT	GRAVEL	54.0
	SUBTOTAL =		2587.0
	ROUNDING =		13.0
	TOTAL =		2600.0

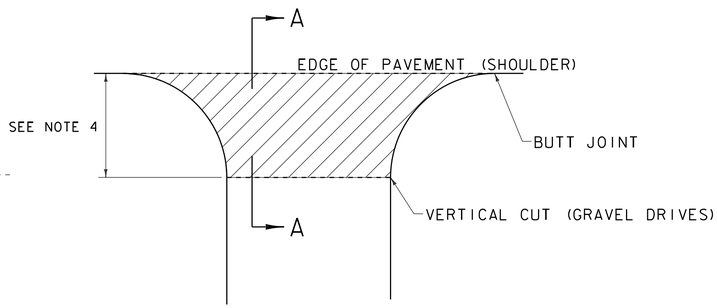
NOTES:

1. PAVING LIFT NOT TO EXCEED TWO INCHES (50MM)
2. 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 900.675 "SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)".
3. EXCAVATION OR FILL NEEDED TO ACHIEVE PROPER DRIVE SLOPES WILL NOT BE PAID DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 900.675 "SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)".
4. FIELD DRIVES 2'-0"; RESIDENTIAL AND COMMERCIAL DRIVES 4'-0"; OR AS DIRECTED BY THE ENGINEER.
5. HANDWORK FOR DRIVES QUANTITIES HAVE BEEN INCREASED BY A FACTOR OF 1.5 TO BETTER REFLECT ACTUAL QUANTITES USED IN FIELD PER VTRANS.

LEGEND



SECTION A-A



PLAN

HANDWORK DETAILS FOR DRIVES - GRAVEL DRIVES

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: ...\CADD FILES\622472F1det.dgn PLOT DATE: 3/23/2018
PROJECT LEADER: B. BRESLEND DRAWN BY: P. DAY
DESIGNED BY: P. DAY CHECKED BY: B. BRESLEND
DETAIL SHEET 2 SHEET 7 OF 40

GPS CONTROL POINTS

HVCTRL

Standard Disk Stamped

Donnelly
NORTH = 649672.03
EAST = 1649052.82
ELEV. =

DESCRIBED BY VERMONT AGENCY OF TRANSPORTATION 1996 (DJM)

TO REACH FROM THE NORTH INTERSECTION OF U.S.ROUTE 2 AND VT ROUTE 14 PROCEED NORTHERLY ALONG ROUTE 14 FOR 1.2 MI (1.9 KM) TO A GRAVEL DRIVE ON THE RIGHT. PROCEED UP THE GRAVEL DRIVE FOR 0.15 MI (0.24 KM) TO A PAVED DRIVE ON THE LEFT AND A YELLOW RANCH WITH A ONE CAR GARAGE. PROCEED UP THE PAVED DRIVE TO THE YELLOW RANCH. THE MARK IS 28.8 M (94.5 FT) NORTH NORTHEAST OF AN IRON PIPE SEPERATING THE TWO ADJACENT PROPERTIES, 26.5 M (86.9 FT) NORTHWEST OF THE SOUTHWEST CORNER OF THE ADJACENT WHITE RANCH, 24.7 M (81.0 FT) WEST OF THE NORTHWEST CORNER OF THE ADJACENT WHITE RANCH, 20.2 M (66.3 FT) EAST NORTHEAST OF THE SOUTHEAST CORNER OF THE YELLOW GARAGE, AND 13.0 M (42.7 FT) EAST OF THE NORTHEAST CORNER OF THE YELLOW GARAGE.

HVCTRL

Standard Disk Stamped

Banfield
NORTH = 639661.19
EAST = 1646682.28
ELEV. =

DESCRIBED BY VERMONT AGENCY OF TRANSPORTATION 1996 (DJM)

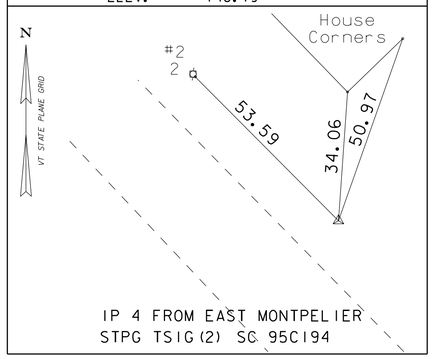
TO REACH FROM THE JUNCTION OF U.S.ROUTE 2 AND VERMONT ROUTE 14 SOUTH IN THE VILLAGE OF EAST MONTPELIER, PROCEED SOUTH ON ROUTE 14 FOR 1.2 MI (1.9 KM) TO A DIRT ROAD ON THE LEFT. TURN LEFT ONTO DIRT ROAD AND CONTINUE FOR 0.55 MI (0.89 KM) TO A T-INTERSECTION WITH THE ROAD, TURN LEFT AT INTERSECTION (COUNTRY CLUB ROAD) AND CONTINUE FOR 0.35 MI (0.56 KM) TO A POINT WHERE THE MAIN DIRT ROAD TURNS SHARPLY RIGHT, FROM THIS POINT TURN SHARPLY LEFT ON A LESSER DIRT ROAD FOR 0.05 MI (0.08 KM) TO A DIRT DRIVE RIGHT, TURN RIGHT ONTO DRIVE, TO A TWO STORY HOUSE, AND THE SITE OF THE MARK. THE MARK IS LOCATED ON THE NORTHEAST SIDE OF THE HOUSE. THE MARK IS A STATE OF VERMONT SURVEY DISK SET IN THE TOP OF A 6X6 INCH SQUARE CONCRETE MONUMENT, FLUSH WITH THE GROUND SURFACE. IT IS LOCATED 62.5 FT (19.1M) NORTH OF THE NORTHEAST CORNER OF HOUSE / ATTACHED GARAGE, 54 FT (16.5 M) NORTHEAST OF A QUADRUPLE WHITE BIRCH, 45.5 FT (13.9 M) NORTHWEST OF A 36 INCH OAK TREE, 17.5 FT (5.3 M) EAST OF THE SOUTHEAST CORNER OF A LARGE EXPOSED BOULDER, 10 FT (3.0 M) NORTHEAST OF THE SOUTHEAST CORNER OF A FLOWER BED, AND 0.8 FT (24.4 CM) SOUTH OF A FIBERGLASS WITNESS POST. OWNERSHIP IS MR. AND MRS. EDWARD BANFIELD.

**To bring the project back to Vermont State Plane Grid Coordinates add 635,781.30 to the Northings and 1,593,715.26 to the Eastings

TRAVERSE TIES

HVCTRL #1

NORTH = 645781.30
EAST = 1643715.26
ELEV. = 748.19



HVCTRL #2

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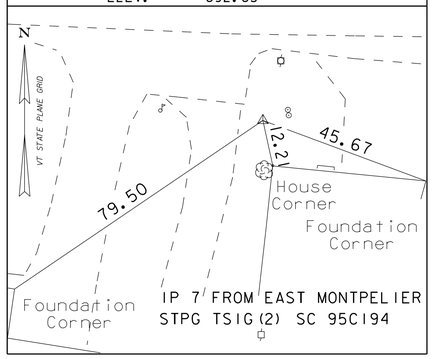
EAST = 1644302.82
ELEV. = 692.63



HVCTRL #3

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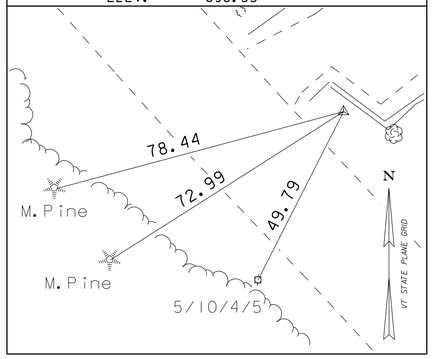
EAST = 1643715.26
ELEV. = 698.53



HVCTRL #4

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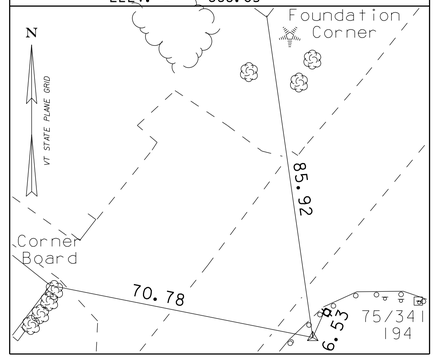
EAST = 1643281.52
ELEV. = 668.05



HVCTRL #5

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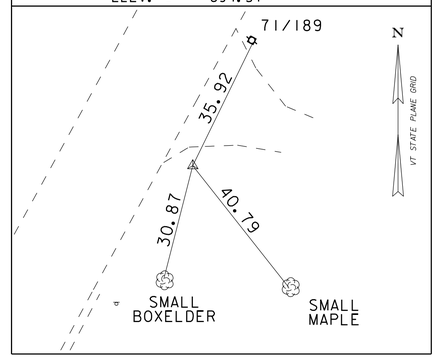
ELEV. = 694.51



HVCTRL #6

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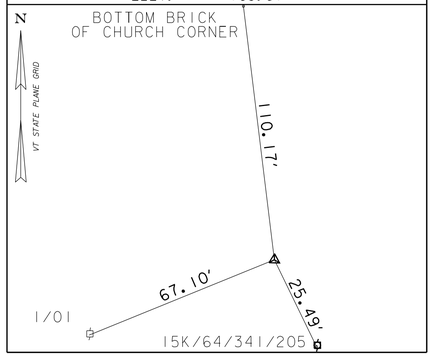
EAST = 1643944.50
ELEV. = 709.61



HVCTRL #51

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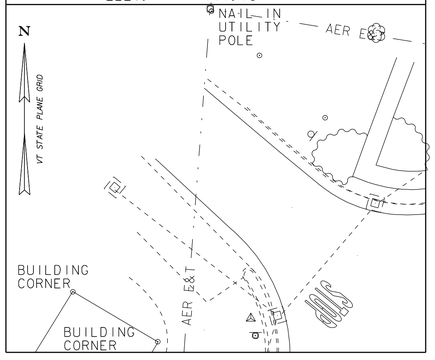
EAST = 1643862.54
ELEV. = 711.76



HVCTRL #50

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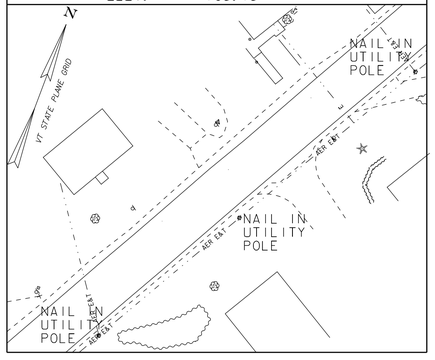
ELEV. = 705.15



HVCTRL #5

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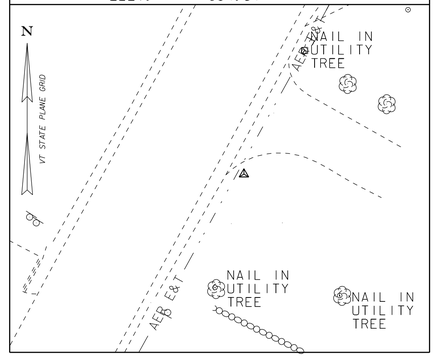
EAST = 1643533.15
ELEV. = 694.51



DATUM

VERTICAL NAVD 88
HORIZONTAL NAD 83 (92)
ADJUSTMENT COMPASS

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472Ftie.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: G. STOCKMAN
TIE SHEET

PLOT DATE: 3/23/2018
DRAWN BY: G. STOCKMAN
CHECKED BY: J. FLYNN
SHEET 8 OF 40

CULVERT PROJECT
EAST MONTPELIER NH CULV(54) ALIGNMENTS

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta /Theta	Rotation Direction	K	P
SW PROJECT N ALIGNMENT										
Tangent	POB	9+00.00	644870.678	1643499.843						
	PC	N 14+96.22	645393.001	1643787.339						
Arc	PC	N 14+96.22	645393.001	1643787.339	500	28.22	3°14'02.0"	Left		
	PI	N 15+10.33	645405.366	1643794.145						
	CC		645634.101	1643349.309						
	PT	N 15+24.44	645418.095	1643800.243						
Tangent	PT	N 15+24.44	645418.095	1643800.243						
	PC	N 15+70.80	645459.908	1643820.272						
Arc	PC	N 15+70.80	645459.908	1643820.272	800	78.83	5°38'44.6"	Right		
	PI	N 16+10.25	645495.483	1643837.313						
	CC		645114.298	1644541.766						
	PRC	N 16+49.63	645529.21	1643857.772						
Arc	PRC	N 16+49.63	645529.21	1643857.772	800	13.51	0°58'04.6"	Left		
	PI	N 16+56.39	645534.988	1643861.277						
	CC		645944.122	1643173.778						
	PCC	N 16+63.14	645540.824	1643864.683						
Arc	PCC	N 16+63.14	645540.824	1643864.683	38.02	21.72	32°43'36.9"	Left		
	PI	N 16+74.31	645550.466	1643870.312						
	CC		645559.992	1643831.846						
	PT	N 16+84.86	645561.62	1643869.834						
Tangent	PT	N 16+84.86	645561.62	1643869.834						
	PI	N 17+36.22	645599.062	1643904.986						
Tangent	PI	N 17+36.22	645599.062	1643904.986						
	POE	N 17+44.87	645607.71	1643905.13						

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta /Theta	Rotation Direction	K	P
SW PROJECT S ALIGNMENT										
Tangent	POB	S 19+00.00	645154.923	1643690.541						
	PI	S 21+82.50	645402.409	1643826.762						
Tangent	PI	S 21+82.50	645402.409	1643826.762						
	PC	S 22+48.03	645458.125	1643861.266						
Arc	PC	S 22+48.03	645458.126	1643861.266	826.17	42.42	2°56'30.6"	Right		
	PI	S 22+69.25	645476.161	1643872.435						
	CC		645023.148	1644563.659						
	PCC	S 22+90.45	645493.6	1643884.516						
Arc	PCC	S 22+90.45	645493.6	1643884.516	380	88.04	13°16'28.3"	Right		
	PI	S 23+34.67	645529.949	1643909.695						
	CC		645277.215	1644196.889						
	PCC	S 23+78.49	645559.545	1643942.548						
Arc	PCC	S 23+78.49	645559.545	1643942.548	304.48	200.94	37°48'39.5"	Right		
	PI	S 24+82.77	645629.342	1644020.025						
	CC		645333.322	1644146.344						
	PT	S 25+79.43	645636.986	1644124.025						

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	K	P
Tangent	POB	146+70.60	644732.1163	1643440.947						
	PC	155+53.94	645506.0888	1643866.683						
Arc	PC	155+53.94	645506.0888	1643866.683	300	364.27	69°34'10.93"	Right		
	PI	157+62.32	645688.6765	1643967.118						
	CC		645361.5001	1644129.54						
	PT	159+18.20	645658.2945	1644173.279						
Tangent	PT	159+18.20	645658.2945	1644173.279						
	POE	159+50.95	645653.5205	1644205.673						

DETAILS ARE NOT TO SCALE

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472F1align.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: B. BRESLEND
ALIGNMENT SHEET

PLOT DATE: 3/23/2018
DRAWN BY: P. DAY
CHECKED BY: C. LATHROP
SHEET 9 OF $T*$

622472F1align.dgn 3/23/2018 2:47:15 PM

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES

ROADWAY	(NO FEDERAL PARTICIPATION)	EROSION CONTROL
1		
500		
825		
5		
1		
510		
5		
760		
7		
3		
10		
850		
410		
550		
100		
50		
1		
7		
2400		
1		
1		
1		
1400		
20		
15		
84		
300		
170		
		70
		150
		1
		1
		80
		1
		50
		1
		40
		11
		550

TOTALS

GRAND TOTAL	FINAL
1	
500	
825	
5	
1	
510	
5	
760	
7	
3	
10	
850	
410	
550	
100	
50	
1	
7	
2400	
1	
1	
1	
1400	
20	
15	
84	
300	
170	
70	
150	
1	
1	
80	
1	
50	
1	
40	
11	
550	

DESCRIPTIONS

UNIT	ITEMS	ITEM NUMBER	ROUND
LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10	-
CY	COMMON EXCAVATION	203.15	30.52
CY	TRENCH EXCAVATION OF EARTH	204.20	16
CY	TRENCH EXCAVATION OF ROCK	204.21	-
CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-
CY	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.26	11
CWT	EMULSIFIED ASPHALT	404.65	0.8
LF	18" CPEP(SL)	601.2615	5
EACH	PRECAST REINFORCED CONCRETE DROP INLET WITH CAST IRON GRATE	604.18	-
EACH	CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES	604.40	-
MGAL	DUST CONTROL WITH WATER	609.10	EST.
LF	VERTICAL GRANITE CURB	616.21	12
LF	REMOVAL OF EXISTING CURB	616.41	8
SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.10	21
SY	PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH	618.11	20
SF	DETECTABLE WARNING SURFACE	618.30	10
EACH	YIELDING MARKER POSTS	619.17	-
EACH	ADJUST ELEVATION OF VALVE BOX	629.20	-
HR	FLAGGERS	630.15	EST.
LS	TESTING EQUIPMENT, CONCRETE	631.16	-
LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-
LS	MOBILIZATION/DEMOBILIZATION	635.11	-
LS	TRAFFIC CONTROL	641.10	-
LF	DURABLE 4 INCH WHITE LINE	646.400	46
LF	DURABLE 24 INCH STOP BAR	646.480	4
EACH	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	-
LF	DURABLE CROSSWALK MARKING	646.500	2
SF	REMOVAL OF EXISTING PAVEMENT MARKINGS	646.85	13
SY	GEOTEXTILE FOR SILT FENCE	649.51	3
LB	SEED	651.15	5
LB	FERTILIZER	651.18	20
TON	AGRICULTURAL LIMESTONE	651.20	0.5
TON	HAY MULCH	651.25	0.5
CY	TOPSOIL	651.35	10
LS	EPSC PLAN	652.10	-
HR	MONITORING EPSC PLAN	652.20	EST.
LU	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	652.30	-
CY	VEHICLE TRACKING PAD	653.35	4
EACH	INLET PROTECTION DEVICE, TYPE I	653.40	-
LF	BARRIER FENCE	653.50	20

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		EARTHWORKS SUMMARY
		FILL REQUIRED
449	CY	SUBTOTAL EARTHWORKS
		FILL AVAILABLE
500	CY	COMMON EXCAVATION
51	CY	WASTE

FINAL – NOT FOR CONSTRUCTION

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: ...\CADD FILES\622472qty.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: P. DAY
QUANTITY SHEET 1

PLOT DATE: 3/23/2018
DRAWN BY: O. DALMER
CHECKED BY: C. LATHROP
SHEET 10 OF 40

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES

ROADWAY	(NO FEDERAL PARTICIPATION)	EROSION CONTROL
30		
240		
21		
19		
1		
1		
1		
3		
160		
1		
1		
275		
210		

TOTALS

GRAND TOTAL	FINAL
30	
240	
21	
19	
1	
1	
1	
3	
160	
1	
1	
275	
210	

DESCRIPTIONS

UNIT	ITEMS	ITEM NUMBER	ROUND
SF	TRAFFIC SIGNS, TYPE A	675.20	3.24
LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	-
EACH	REMOVING SIGNS	675.50	-
EACH	ERECTING SALVAGED SIGNS	675.60	-
EACH	SPECIAL PROVISION (CPM SCHEDULE)	900.620	-
EACH	SPECIAL PROVISION (POWER METER)	900.620	-
EACH	SPECIAL PROVISION (REMOVE AND RESET PEDESTRIAN SIGNAL)	900.620	-
EACH	SPECIAL PROVISION (TREE PLANTING WELL)	900.620	-
LF	SPECIAL PROVISION (4 INCH CONDUIT)	900.640	5
LU	SPECIAL PROVISION (MAT DENSITY PAY ADJUSTMENT, SMALL QUANTITY)(N.A.B.I.)	900.650	-
LU	SPECIAL PROVISION (MIXTURE PAY ADJUSTMENT)(N.A.B.I.)	900.650	-
SY	SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)	900.675	-
TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)	900.680	7

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)
40	TON	TYPE IIS
41	TON	TYPE IIIS
122	TON	TYPE IVS
7	TON	ROUNDING
210	TON	TOTAL

FINAL – NOT FOR CONSTRUCTION

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: ...\CADD FILES\622472qty.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: P. DAY
QUANTITY SHEET 2

PLOT DATE: 3/23/2018
DRAWN BY: O. DALMER
CHECKED BY: C. LATHROP
SHEET 11 OF 40

RIGHT - OF - WAY DETAIL SHEET 1

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA			REMARKS
					AREA±	AREA±	TYPE	(T)/(P)	AREA ±	TOWN / CITY	BOOK	PAGE	
1	WATSON, ROBERT R.	5 OF 6	N 09+62.79 LT	N 09+77.48 LT			CONSTRUCTION	(T)	71.50				DELINEATE WITH BARRIER OR GEOTEXTILE FENCE
			N 09+62.79 LT	N 10+19.02 LT			D & C	(T)	-				DISCONNECT & CONNECT WATER
			N 09+77.16 LT	N 09+90.87 LT			DRIVE	(T)	131.84				RECONSTRUCT DRIVE
			N 09+90.63 LT	N 10+18.99 LT			CONSTRUCTION	(T)	324.43				DELINEATE WITH BARRIER OR GEOTEXTILE FENCE
			N 10+01.69 LT	N 10+19.02 LT			DETOUR	(T)	26.84				DETOUR ROAD
2	ROLLAND, TY C. & NANCY L.	5 OF 6	N 10+18.84 LT	N 11+04.46 LT			CONSTRUCTION	(T)	802.01				DELINEATE WITH BARRIER OR GEOTEXTILE FENCE
			N 10+18.84 LT	N 11+91.79 LT			D & C	(T)	-				DISCONNECT & CONNECT WATER
			N 10+18.99 LT	N 11+63.33 LT			DETOUR	(T)	1665.87				DETOUR ROAD
			N 10+19.11 LT	N 11+02.06 LT			SLOPE	(T)	831.14				
			N 10+23.93 LT	N 10+38.91 LT			INSTALL	(T)	-				PUMP & PIPE
			N 10+37.81 LT	N 10+57.60 LT			CUL., DIT & DR	(P)	-				
			N 10+47.00 LT	-			SIGN	(P)	-				
			N 10+62.89 LT	N 10+63.08 LT			CUL., DIT & DR	(P)	-				
			N 10+92.13 LT	N 11+08.12 LT			CUL., DIT & DR	(P)	-				
			N 10+95.55 LT	N 11+25.45 LT			REMOVE & INSTALL	(T)	-				PIPE
			N 10+99.24 LT	N 11+25.32 LT			DRIVE	(T)	504.03				RECONSTRUCT DRIVE
			N 11+05.66 LT	N 11+42.63 LT			INSTALL	(T)	-				PUMP & PIPE
			N 11+22.25 LT	N 11+91.79 LT			CONSTRUCTION	(T)	1465.76				DELINEATE WITH BARRIER OR GEOTEXTILE FENCE
			N 11+22.38 LT	N 11+28.17 LT			SLOPE	(T)	31.96				
			N 11+25.17 LT	-			REMOVE	(T)	-				GUIDE POST
			N 11+42.59 LT	N 11+66.88 LT			SLOPE	(T)	11.30				
			N 11+89.00 LT	-			SIGN	(P)	-				
3	NOT USED												
4	COWAN, DANIEL F.	5 OF 6	N 11+91.79 LT	N 12+85.80 LT			CONSTRUCTION	(T)	544.81				DELINEATE WITH BARRIER OR GEOTEXTILE FENCE
			N 11+91.79 LT	N 13+01.22 LT			D & C	(T)	-				DISCONNECT & CONNECT WATER
			N 12+46.00 LT	-			SIGN	(P)	-				
			N 12+85.10 LT	N 12+99.08 LT			DRIVE	(T)	72.28				RECONSTRUCT DRIVE
			N 12+97.37 LT	N 13+01.22 LT			CONSTRUCTION	(T)	19.40				DELINEATE WITH BARRIER OR GEOTEXTILE FENCE
5	BIRON, GLORIA A., TRUSTEE OF THE GLORIA A. BIRON LIVING TRUST	5 OF 6	N 13+01.22 LT	N 13+64.23 LT			CONSTRUCTION	(T)	1212.55				DELINEATE WITH BARRIER OR GEOTEXTILE FENCE
			N 13+01.22 LT	N 13+64.23 LT			D & C	(T)	-				DISCONNECT & CONNECT WATER
			N 13+09.99 LT	N 13+42.38 LT			DRIVE	(T)	42.30				RECONSTRUCT DRIVE
			N 13+40.00 LT	-			SIGN	(P)	-				
			N 13+42.14 LT	N 13+47.38 LT			INSTALL	(T)	81.56				WALKWAY
			N 13+47.14 LT	N 13+59.23 LT			DRIVE	(T)	25.57				RECONSTRUCT DRIVE

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

LEGEND

"N" US RTE 2 NORTH
"S" US RTE 2 SOUTH
"QR" QUAKER ROAD

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJECT
PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472Fldet-row.dgn PLOT DATE: 3/23/2018
PROJECT LEADER: B. BRESLEND DRAWN BY: O. DALMER
DESIGNED BY: B. BRESLEND CHECKED BY: S. SOLLA
RIGHT OF WAY DETAIL SHEET 1 SHEET 2 OF 40

STATE OF VERMONT
AGENCY OF TRANSPORTATION

RIGHT - OF - WAY DETAIL SHEET 2

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA			REMARKS
					AREA±	AREA±	TYPE	(T)/(P)	AREA ±	TOWN / CITY	BOOK	PAGE	
6	ROWELL, RICHARD & NANCY	5 OF 6	S 19+71.55 RT	S 19+88.38 RT			DRIVE	(T)	166.28				RECONSTRUCT DRIVE
			S 19+71.55 RT	S 20+60.82 RT			D & C	(T)	-				DISCONNECT & CONNECT WATER
			S 19+85.46 RT	S 20+60.82 RT			CONSTRUCTION	(T)	441.11				DELINEATE WITH BARRIER OR GEOTEXTILE FENCE
			S 19+86.17 RT	S 20+52.15 RT			SLOPE	(T)	314.55				
			S 20+13.77 RT	-			REMOVE	(T)					TREE
			S 20+28.62 RT	-			ADJUST	(T)	-				WATER SHUT OFF VALVE BOX
			S 20+42.31 RT	S 20+60.82 RT			DRIVE	(T)	76.39				RECONSTRUCT DRIVE
7	LAMB, DURWARD D. & LINDA L.	5 OF 6	S 20+60.82 RT	S 20+78.07 RT			DRIVE	(T)	56.43				RECONSTRUCT DRIVE
			S 20+60.82 RT	S 21+57.82 RT			D & C	(T)	-				DISCONNECT & CONNECT WATER
			S 20+62.54 RT	S 21+30.62 RT			SLOPE	(T)	254.45				
			S 20+77.09 RT	-			REMOVE	(T)	-				TREE
			S 20+83.28 RT	-			INSTALL	(T)	-				TREE PLANTING WELL
			S 21+00.98 RT	-			INSTALL	(T)	-				TREE PLANTING WELL
			S 21+12.31 RT	S 21+55.81 RT			DRIVE	(T)	196.62				RECONSTRUCT DRIVE
			S 21+12.54 RT	-			INSTALL	(T)	-				TREE PLANTING WELL
			S 21+50.79 RT	S 21+57.82 RT			CONSTRUCTION	(T)	82.15				DELINEATE WITH BARRIER OR GEOTEXTILE FENCE
			S 21+53.57 RT	S 21+57.82 RT			SLOPE	(T)	53.13				
8	MOREY, ROBERT W. & GROVER-MOREY, DEBRA	5&6 OF 6	S 21+57.82 RT	S 22+27.38 RT			CONSTRUCTION	(T)	536.92				DELINEATE WITH BARRIER OR GEOTEXTILE FENCE
			S 21+57.82 RT	S 22+55.88 RT			D & C	(T)	-				DISCONNECT & CONNECT WATER
			S 21+57.82 RT	S 22+25.23 RT			SLOPE	(T)	757.46				
			S 21+60.19 RT	-			REMOVE	(T)	-				SIGN
			S 21+61.00 RT	-			SIGN	(P)	-				
			S 22+10.89 RT	-			ADJUST	(T)	-				WATER SHUT OFF VALVE BOX
			S 22+25.10 RT	S 22+51.68 RT			DRIVE	(T)	291.63				RECONSTRUCT DRIVE
			S 22+46.03 RT	S 22+54.77 RT			SIDEWALK	(P)	3.52				LENGTH 9.18 FT
			S 22+50.95 RT	S 22+55.88 RT			CONSTRUCTION	(T)	47.95				DELINEATE WITH BARRIER OR GEOTEXTILE FENCE
9	BIRON, GLORIA A., TRUSTEE OF THE GLORIA A. BIRON LIVING TRUST	6 OF 6	S 22+54.68 RT	S 23+24.80 RT			SIDEWALK	(P)	74.30				LENGTH 69.64 FT
			S 22+54.68 RT	S 24+75.00 RT			D & C	(T)	-				DISCONNECT & CONNECT WATER
			S 22+54.77 RT	S 23+01.12 RT			CONSTRUCTION	(T)	867.15				DELINEATE WITH BARRIER OR GEOTEXTILE FENCE
			S 22+75.07 RT	S 22+96.69 RT			INSTALL	(T)	-				UNDERGROUND CONDUIT FOR FUTURE SERVICE
			S 22+76.10 RT	S 22+99.62 RT			SLOPE	(T)	135.53				
			S 22+77.69 RT	S 22+97.75 RT			INSTALL	(T)	-				UNDERGROUND CONDUIT FOR FUTURE SERVICE
			S 22+92.58 RT	S 23+39.51 RT			DRIVE	(T)	481.32				RECONSTRUCT DRIVE
			S 22+97.22 RT	-			INSTALL	(T)	-				POWER METER FOR FUTURE SERVICE
			S 23+37.47 RT	S 24+75.00 RT			CONSTRUCTION	(T)	655.59				DELINEATE WITH BARRIER OR GEOTEXTILE FENCE
10	NOT USED												

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

LEGEND

"N" US RTE 2 NORTH
"S" US RTE 2 SOUTH
"QR" QUAKER ROAD

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJECT
PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472Fldet-row.dgn PLOT DATE: 3/23/2018
PROJECT LEADER: B. BRESLEND DRAWN BY: O. DALMER
DESIGNED BY: B. BRESLEND CHECKED BY: S. SOLLA
RIGHT OF WAY DETAIL SHEET 2 SHEET 3 OF 40

STATE OF VERMONT
AGENCY OF TRANSPORTATION

RIGHT - OF - WAY DETAIL SHEET 3

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA			REMARKS
					AREA±	AREA±	TYPE	(T)/(P)	AREA ±	TOWN / CITY	BOOK	PAGE	
11	FIRSTLIGHT	5&6 OF 6	N 09+48.20 LT	S 24+75.00 RT									INTERNET
12	GREEN MOUNTAIN POWER	5&6 OF 6	N 09+48.20 LT	S 24+75.00 RT									ELECTRIC
13	FAIRPOINT COMMUNICATIONS	5&6 OF 6	N 09+48.20 LT	S 24+75.00 RT									TELEPHONE
14	COMCAST CORPORATION	5&6 OF 6	N 09+48.20 LT	S 24+75.00 RT									CABLE
15	CRYSTAL SPRINGS WATER COMPANY, INC.	5&6 OF 6	N 09+48.20 LT	S 24+75.00 RT									WATER

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

LEGEND

"N"	US RTE 2 NORTH
"S"	US RTE 2 SOUTH
"QR"	QUAKER ROAD

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJECT
PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472Fldet-row.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: B. BRESLEND
RIGHT OF WAY DETAIL SHEET 3

PLOT DATE: 3/23/2018
DRAWN BY: O. DALMER
CHECKED BY: S. SOLLA
SHEET 4 OF 40

BEGIN SIDEWALK
STA. 148+84.50 LT

BEGIN R.O.W.
PROJECT (PHASE 1)
STA. N 9+62.79 LT

1
WATSON,
ROBERT R.

D & C (T)

DETOUR (T)

CONST. (T)

DRIVE (T)

HOUSE

GRAVEL

CONST. (T)

SAVE TREE

INSTALL (T)

CONST. (T)

SIGN (P)

SR (T)

AER

AER E&T

N 9+00

TO MONTPELIER

N 10+00

TREES TO BE REMOVED

GRAVEL

FLAG

HOUSE

GRAVEL

P L

N/F
TOWN OF
EAST MONTPELIER

P L

2
ROLLAND, TY C.
& NANCY L.

D & C (T)

CUL., DIT & DR (P)

CUL., DIT & DR (P)

INSULATION BOARD TO BE INSTALLED
FOR EXISTING WATER MAIN

CUL., DIT & DR (P)

REMOVE & INSTALL (T)

DRIVE (T)

DETOUR (T)

REMOVE (T)

CONST. (T)

SIGN (P)

INSTALL (T)

SR (T)

SR (T)

GRAVEL

POST

N 11+00

TO BE REMOVED BY OTHERS

TO BE INSTALLED BY OTHERS

AER E&T

ASBESTOS CEMENT

POST

GRAVEL

P L

END R.O.W.
PROJECT (PHASE 1)
STA. N 11+91.79 LT

BEGIN R.O.W.
PROJECT (PHASE 2)
STA. N 11+91.79 LT

4
COWAN, DANIEL F.

D & C (T)

SAVE TREE

HOUSE

CONST. (T)

DRIVE (T)

GRAVEL

SIGN (P)

APPROXIMATE EXISTING ROW

N 12+00

N 13+00

S 19+00

APPROXIMATE EXISTING ROW

BEGIN SIDEWALK
STA. S 19+88.99 RT

GARDEN

HOUSE

P L

5
BIRON, GLORIA A.,
TRUSTEE OF THE
GLORIA A. BIRON LIVING TRUST

D & C (T)

INSTALL WALKWAY (T)

PAVED

POST OFFICE

MB

CONST. (T)

DRIVE (T)

SIGN (P)

DRIVE (T)

N 14+00

TO PLAINFIELD

TO BE INSTALLED BY OTHERS

S 20+00

ADJUST (T)

SR (T)

REMOVE (T)

CONST. (T)

DRIVE (T)

GRAVEL

DRIVE (T)

HOUSE

SAVE PLANTING

PLANTING

P L

6
ROWELL, RICHARD
& NANCY

D & C (T)

N/F
BIRON, JEFFREY R.

STORE

GAS PUMPS

PAVED

N 15+00

MATCHLINE STA. N 15+00
SEE NEXT SHEET

REMOVE (T)

INSTALL (T)

REMOVE (T)

S 21+00

PAVED

DRIVE (T)

SAVE TREES

SR (T)

SR (T)

DRIVE (T)

HOUSE

TO BE REMOVED BY OTHERS

SIGN (P)

CONST. (T)

MATCHLINE STA. S 21+69
SEE NEXT SHEET

P L

7
LAMB, DURWARD D.
& LINDA L.

D & C (T)

8
MOREY,
ROBERT W.
& GROVER-MOREY,
DEBRA

D & C (T)

N/F
VT AGENCY OF
TRANSPORTATION

P L

VT STATE PLANE GRID

0 20 40
SCALE IN FEET

PROJECT NAME:	EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJECT
PROJECT NUMBER:	STP BIKE (63)
FILE NAME: 622472F1 BDR-ROW.dgn	PLOT DATE: 3/23/2018
PROJECT LEADER: B. BRESLEND	DRAWN BY: O. DALMER
DESIGNED BY: B. BRESLEND	CHECKED BY: C. LATHROP
RIGHT OF WAY PLAN SHEET 1	SHEET 5 OF 40

N/F
ROYCE, LINDA LEE

N/F
OLD BRICK CHURCH

N/F
VT AGENCY OF
TRANSPORTATION

TO N. MONT.
VT RTE 14

HOUSE

N/F
WINSTON, JOHNATHAN D.
& SUZANNE REXFORD

APPROXIMATE EXISTING ROW

US ROUTE 2

TO PLAINFIELD

N
VT STATE PLANE GRID

6" PVC
APPROX. EXIST. ROW
8" PVC
END SIDEWALK
STA. N 17+46.09 RT
QUAKER RD
AER E&T
OR 30+75
N 17+45
3" GALV.
US ROUTE 2
S 25+00
S 24+79
APPROXIMATE EXISTING ROW
END SIDEWALK
STA. S 25+79.43 RT
END R.O.W.
PROJECT (PHASE 2)
STA. S 24+75.00 RT
STA. OR 30+00.00=
STA. N 17+12.09
N 17+00
4" ASBESTOS-
CEMENT
GRAVEL
TO BE REMOVED
BY OTHERS
9
BIRON, GLORIA A.,
TRUSTEE OF THE
GLORIA A. BIRON
LIVING TRUST
N/F
HEMINGWAY,
MILTON B.
GARAGE
APPROXIMATE EXISTING ROW
N/F
HASLAND, LLC
N/F
VT AGENCY OF
TRANSPORTATION
CONST. (T)
D & C (T)
STA. S 23+24.80
OFFSET 6.50 RT
SIDEWALK (P)
L= 69.64'
DRIVE (T)
STA. S 22+92.58
OFFSET 6.50 RT
STA. S 22+92.58
OFFSET 7.00 RT
INSTALL (T) (3)
N/F
BIRON,
JEFFREY R.
GRAVEL
SR (T)
CONST. (T)
STA. S 22+54.68
OFFSET 6.03 RT
STA. S 22+54.77
OFFSET 7.00 RT
N/F
BIRON, JEFFREY R.
TO BE REMOVED
BY OTHERS
TO BE INSTALLED
BY OTHERS
ADJUST
SIGN (T)
TO BE
REMOVED
CONST. (T)
STA. S 22+51.68
OFFSET 6.50 RT
STA. S 22+51.68
OFFSET 7.00 RT
HOUSE
SIDEWALK (P)
L= 9.18'
STA. S 22+46.03
OFFSET 6.50 RT
DRIVE (T)
SAVE
TREES (4)
CONST. (T)
SR (T)
8
MOREY,
ROBERT W.
& GROVER-MOREY,
DEBRA
D & C (T)
MATCHLINE STA. N 15+00
SEE PREVIOUS SHEET
MATCHLINE STA. S 21+69
SEE PREVIOUS SHEET

0 20 40
SCALE IN FEET

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJECT
PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472F1 BDR-ROW.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: B. BRESLEND
RIGHT OF WAY PLAN SHEET 2

PLOT DATE: 3/23/2018
DRAWN BY: O. DALMER
CHECKED BY: C. LATHROP
SHEET 6 OF 40

REMOVING TREES
STA. S 20+14 RT (SPRUCE)
STA. S 20+77 RT (LILAC)
STA. 40+92 RT

CHANGING ELEVATION OF DROP INLET, CATCH BASING, OR MANHOLE
STA. N 16+45 RT
STA. N 16+90 RT
STA. S 25+45 LT

PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH
STA. N 9+64 LT - STA. N 10+00 LT
STA. N 10+91 LT - STA. N 11+34 LT
STA. N 13+03 LT - STA. N 13+59 LT
STA. N 13+45 LT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
STA. N 10+00 LT - STA. N 10+91 LT
STA. N 11+34 LT - STA. N 13+03 LT
STA. S 19+90 LT - STA. S 21+69 LT

DETECTABLE WARNING SURFACE
STA. N 13+44.58 LT
STA. S 20+03.60 RT

VERTICAL GRANITE CURB
STA. N 10+00 - STA. N 10+91 LT
STA. N 11+34 - STA. N 12+82 LT
STA. S 20+06 - STA. S 20+24 RT
STA. S 20+55 - STA. S 21+33 RT
STA. S 21+57 - STA. S 21+69 RT

ADJUST ELEVATION OF VALVE BOX
STA. S 20+29 RT
STA. S 21+18 RT
STA. S 22+11 RT
STA. S 22+88 RT
STA. S 24+03 RT

SPECIAL PROVISION (PLANTING WELL)
STA. S 20+83.28 RT
STA. S 21+00.98 RT
STA. S 21+12.54 RT

(1) STA. N 10+05.00 RT 1.00'
INSTALL PRECAST REINFORCED CONCRETE DROP INLET WITH CAST IRON GRATE (TYPE A)
RIM = 696.87'

(2) STA. N 10+05.51 RT 1.00' TO
STA. N 10+57.60 LT 16.86'
INSTALL 18" CPEP (55'-0")
S = 0.005
INV IN = 694.36
INV OUT = 692.54

(3) STA. N 10+92.07 LT 14.42' TO
STA. N 11+42.46 RT 1.00'
INSTALL 18" CPEP (53'-0")
S = 0.005
INV IN = 694.90
INV OUT = 694.63

(4) STA. N 11+42.46 RT 1.00'
INSTALL PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (TYPE A)
RIM = 699.90'

(5) STA. N 11+42.56 RT 1.00' TO
STA. N 13+04.00 RT 1.00'
INSTALL 18" CPEP (158'-6")
S = 0.019
INV = 698.44
INV = 695.41

(6) STA. N 13+04.00 RT 1.00'
INSTALL PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (TYPE A)
RIM = 703.94'

(7) STA. N 13+04.00 RT 1.00' TO
STA. N 13+50.00 RT 1.00'
INSTALL 18" CPEP (52'-0")
S = 0.020
INV IN = 699.98
INV OUT = 698.98

(8) STA. N 13+55.00 RT 1.00'
INSTALL PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (TYPE A)
RIM = 704.98

(9) STA. N 10+61.45 RT 48.21' TO
STA. N 11+09.37 RT 28.99'
INSTALL 18" CPEP (51'-0")
S = 0.010
INV IN = 693.45
INV OUT = 692.94

(10) STA. N 11+09.37 RT 28.99'
INSTALL PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (TYPE A)
RIM = 698.95

(11) STA. N 11+09.37 RT 28.99' TO
STA. S 20+14.03 LT 1.00'
INSTALL 18" CPEP (243'-6")
S = 0.025
INV IN = 700.04
INV OUT = 693.95

(12) STA. S 20+14.03 LT 1.00'
INSTALL PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (TYPE A)
RIM = 705.54

(13) STA. S 20+17.03 LT 1.00' TO
STA. S 21+61.23 LT 1.00'
INSTALL 18" CPEP (145'-0")
S = 0.024
INV IN = 703.96
INV OUT = 700.54

(14) STA. S 21+61.23 LT 1.00'
INSTALL PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (TYPE A)
RIM = 708.96

[15] 3'-0" X 2'-6" X 53'-0" CONC. BOX
INV. 692.54
INV. 692.01

[16] 15" HDPE (35'-0")
INV IN = 697.46
INV OUT = 694.02

FINAL – NOT FOR CONSTRUCTION

0 20 40
SCALE IN FEET

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJECT	
PROJECT NUMBER: STP BIKE (63)	
FILE NAME: 622472F1 BDR.dgn	PLOT DATE: 3/23/2018
PROJECT LEADER: B. BRESLEND	DRAWN BY: P. DAY
DESIGNED BY: P. DAY	CHECKED BY: B. BRESLEND
PROJECT LAYOUT SHEET 1	SHEET 17 OF 40

DETECTABLE WARNING SURFACE
STA. N 16+84.86 LT
STA. N 17+37.30 LT & RT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
STA. N 16+09 - STA. N 16+92 LT
STA. S 21+69 - STA. S 22+93 RT
STA. S 23+38 - STA. S 25+79 RT

PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH
STA. S 22+93 - STA. S 23+38 RT

VERTICAL GRANITE CURB
STA. N 16+09 - STA. N 16+92 LT
STA. N 16+09 - STA. N 16+92 LT
STA. S 21+69 - STA. S 22+25 RT
STA. S 22+52 - STA. S 22+93 RT
STA. S 22+52 - STA. S 22+93 RT
STA. S 23+38 - STA. S 24+00 RT
STA.' S 23+38 - STA. S 24+00 RT
STA. QR 30+44 - STA. QR 30+63 LT

ADJUST ELEVATION OF VALVE BOX
STA. S 22+11 RT
STA. S 22+88 RT
STA. S 24+03 RT
STA. S 24+03 RT
STA. S 24+03 RT

SPECIAL PROVISION (REMOVE AND RESET PEDESTRIAN SIGNAL
STA. S 25+78 RT

1	CATCH BASIN	RIM: 711.22 INV: 703.50 24" HDPE INV: 706.88 18" HDPE INV: 704.09 18" HDPE
2	CATCH BASIN	RIM: 710.78 INV: 703.19 24" HDPE INV: 703.29 24" HDPE
3	CATCH BASIN	RIM: 703.40 INV: 698.78 24" HDPE INV: 698.76 24" HDPE
4	CATCH BASIN	RIM: 700.97 INV: 697.95 8" HDPE
5	CATCH BASIN	RIM: 701.25 INV: 691.84 15" HDPE INV: 692.20 24" HDPE INV: 691.23 24" HDPE
6	CATCH BASIN	RIM: 699.48 INV: 692.53 15" HDPE
7	CATCH BASIN	RIM: 697.71 INV: 690.51 18" HDPE INV: 688.06 36" CMP INV: 687.62 24" HDPE INV: 687.69 36" CMP
8	CATCH BASIN	RIM: 698.22 INV: 692.52 18" HDPE INV: 692.22 18" HDPE INV: 692.52 8" HDPE
9	CATCH BASIN	RIM: 698.10 INV: 693.32 18" HDPE
10	CATCH BASIN	RIM: 692.96 INV: 685.08 36" HDPE
11	CATCH BASIN	RIM: 710.16 INV: 706.54 18" HDPE
12	CATCH BASIN	RIM: 710.64 INV: 705.72 18" HDPE INV: 706.30 18" HDPE
13	CATCH BASIN	RIM: 712.05 INV: 704.33 18" HDPE INV: 704.69 18" HDPE
14	CATCH BASIN	RIM: 717.20 INV: 713.68 18" HDPE

FINAL - NOT FOR CONSTRUCTION

0 20 40
SCALE IN FEET

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJECT
PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472FI BDR.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: P. DAY
PROJECT LAYOUT SHEET 2

PLOT DATE: 3/23/2018
DRAWN BY: P. DAY
CHECKED BY: B. BRESLEND

DURABLE 4" WHITE LINE, THERMOPLASTIC
STA. N 10+00 RT - STA. N 13+75 RT (SOLID)
(WITH BREAK AT CROSSWALK)
STA. N 11+00 RT - STA. S 21+69 RT (SOLID)
(WITH BREAK AT CROSSWALK)

DURABLE LETTER OR SYMBOL, THERMOPLASTIC
STA. S 18+85 LT (SIGNAL)
STA. S 19+25 LT (AHEAD)

DURABLE CROSSWALK MARKINGS THERMOPLASTIC
STA. S 20+04 LT&RT

REMOVING SIGNS
AS SHOWN = 9

ERECTING SALVAGED SIGNS
AS SHOWN = 9

VT STATE PLANE GRID

BEGIN SIGNING
STA. N 10+35 RT

STA. N 10+47 LT
S
S VT Route 14 N
N

STA. N 10+67 LT
R&S
R&S VT Route 14 R
R

STA. N 11+89 LT
S
N
R&S
R

STA. N 12+42 LT
JCT R&S
VERMONT 14 R&S
R

STA. N 12+46 LT
JCT S
VERMONT 14 S
N

STA. N 13+04 LT
SPEED LIMIT 35 S
N
SPEED LIMIT 35 R&S
R

STA. N 13+40 LT
N
N
N

STA. S 11+56 RT
Plainfield 3
St Johnsbury 20
N Montpelier 3
Hardwick 20
RET (4)
RET RET

STA. N 10+35 RT
N
AHEAD N
N

STA. S 19+05 RT
S
N N

STA. S 19+99 RT
S
N
N

STA. S 20+06 RT
R&S
NEXT 200 FT R
R

STA. S 21+60 RT
E Montpelier Elem School R&S
R R

STA. S 21+61 RT
E Montpelier Elem School S
N N

MATCHLINE STA. N 15+00
SEE NEXT SHEET

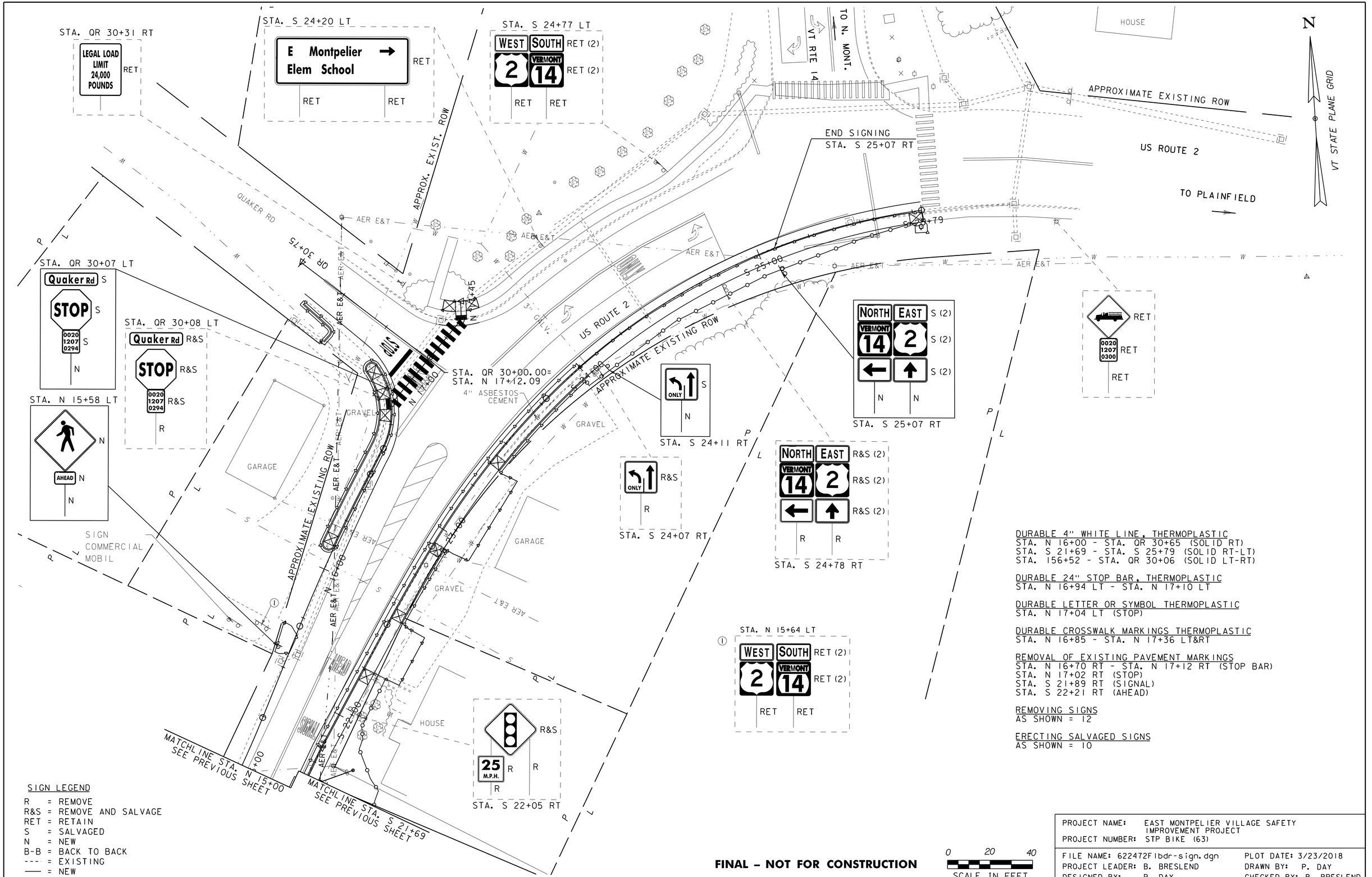
MATCHLINE STA. S 21+69
SEE NEXT SHEET

SIGN LEGEND
R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED
N = NEW
B-B = BACK TO BACK
--- = EXISTING
—— = NEW

FINAL – NOT FOR CONSTRUCTION

0 20 40
SCALE IN FEET

PROJECT NAME:	EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJECT
PROJECT NUMBER:	STP BIKE (63)
FILE NAME: 622472Flbdr-sign.dgn	PLOT DATE: 3/23/2018
PROJECT LEADER: B. BRESLEND	DRAWN BY: P. DAY
DESIGNED BY: P. DAY	CHECKED BY: B. BRESLEND
SIGN & MARKINGS LAYOUT SHEET 1	SHEET 19 OF 40



SIGN LEGEND

R = REMOVE
R&S = REMOVE AND SALVAGE
RET = RETAIN
S = SALVAGED
N = NEW
B-B = BACK TO BACK
--- = EXISTING
—— = NEW

DURABLE 4" WHITE LINE, THERMOPLASTIC
STA. N 16+00 - STA. QR 30+65 (SOLID RT)
STA. S 21+69 - STA. S 25+79 (SOLID RT-LT)
STA. 156+52 - STA. QR 30+06 (SOLID LT-RT)

DURABLE 24" STOP BAR, THERMOPLASTIC
STA. N 16+94 LT - STA. N 17+10 LT

DURABLE LETTER OR SYMBOL THERMOPLASTIC
STA. N 17+04 LT (STOP)

DURABLE CROSSWALK MARKINGS THERMOPLASTIC
STA. N 16+85 - STA. N 17+36 LT&RT

REMOVAL OF EXISTING PAVEMENT MARKINGS
STA. N 16+70 RT - STA. N 17+12 RT (STOP BAR)
STA. N 17+02 RT (STOP)
STA. S 21+89 RT (SIGNAL)
STA. S 22+21 RT (AHEAD)

REMOVING SIGNS
AS SHOWN = 12

ERECTING SALVAGED SIGNS
AS SHOWN = 10

FINAL – NOT FOR CONSTRUCTION

0 20 40
SCALE IN FEET

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJECT
PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472Flbdr-sign.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: P. DAY
SIGN & MARKINGS LAYOUT SHEET 2

PLOT DATE: 3/23/2018
DRAWN BY: P. DAY
CHECKED BY: B. BRESLEND
SHEET 20 OF 40

EPSC PLAN NARRATIVE

1.1 PROJECT DESCRIPTION

THIS PROJECT IS LOCATED IN THE COUNTY OF WASHINGTON, TOWN OF EAST MONTPELIER, AT THE INTERSECTION OF US ROUTE 2 AND QUAKER ROAD AND US ROUTE 2 AND VT ROUTE 14. THE PROJECT IS 984 FEET IN LENGTH, BEGINNING ON THE SOUTH WEST OF US ROUTE 2 AND CONTINUING NORTH EAST TO MEET VT ROUTE 14. PROJECT INCLUDES SHOULDER WIDENING, PORTLAND CEMENT CONCRETE SIDEWALKS, VERTICAL GRANITE CURBING, PAVEMENT STRIPING, GRADING, SIGNING, DRAINAGE MODIFICATIONS, AND OTHER HIGHWAY RELATED ITEMS.

NOTE: AREA OF DISTURBANCE INCLUDES LIMITS OF EARTH DISTURBANCE WITHIN THE PROJECT AREA, AS WELL AS WASTE, BORROW AND STAGING AREAS, AND OTHER EARTH DISTURBING ACTIVITIES WITHIN OR DIRECTLY ADJACENT TO THE PROJECT LIMITS AS SHOWN ON THE ATTACHED EPSC PLAN.
TOTAL AREA OF DISTURBANCE AS SHOWN ON THE ATTACHED EPSC PLAN IS APPROXIMATELY 0.72 ACRES.

IT IS ANTICIPATED THAT THIS PROJECT WILL LAST ONE CONSTRUCTION SEASON.

1.2 SITE INVENTORY

1.2.1 TOPOGRAPHY

THE TOPOGRAPHY OF THE AREA CONSISTS MOSTLY OF FLAT EMBANKMENTS WITH STEEPER PARTS AT THE STREAM AREA AND AT THE NORTH EAST OF THE PROJECT AREA. IT IS MOSTLY RESIDENTIAL AND SMALL BUSINESS AREA. THE FARMLAND IS LOCATED TO THE EAST OF THE PROJECT.

1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES

WINOOSKI RIVER TAKES PLACE AT THE SOUTH OF THE PROJECT AND NOT WITHIN PROJECT AREA.

THERE IS A CROSS CULVERT AT THE SOUTH WEST PROJECT AREA THAT COLLECTS RUNOFF WATER FROM THE ROADWAY AND ADJACENT SLOPES AND EVENTUALLY FEEDS INTO THESE WATER SOURCES.

1.2.3 VEGETATION

THE VEGETATION IN THE PROJECT AREA CONSISTS PRIMARILY OF RESIDENTIAL AND SMALL BUSINESS LAWNS AND SHADE TREES.

THE IMPACT TO VEGETATION WILL BE LIMITED TO THAT WHICH IS DIRECTLY AFFECTED BY ANY SLOPE STABILIZATION ALONG THE PROJECT. DISTURBED VEGETATION WILL BE REESTABLISHED WITH STANDARD SEED AND MULCH PRACTICES.

1.2.4 SOILS

ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF FRANKLIN, VERMONT. SOILS ON THE PROJECT SITE ARE:

ADAMS LOAMY FINE SAND, 0-3 %
SLOPES, HYDROLOGIC SOIL
GROUP: A, K FACTOR = 0.15

DUMMERSTON FINE SANDY LOAM,
15-25% SLOPES, HYDROLOGIC
SOIL GROUP: B, K FACTOR = 0.28

CABOT SOIL LOAM,
0-3% SLOPES, HYDROLOGIC SOIL
GROUP :D, K FACTOR = 0.43

THE SOILS WITHIN THIS PROJECT ARE CONSIDERED MODERATE TO HIGHLY ERODIBLE DUE TO THE "K FACTOR".

NOTE: K-VALUES GENERALLY INDICATE THE FOLLOWING:
0.0-0.23 = LOW EROSION POTENTIAL
0.24-0.36 = MODERATE EROSION POTENTIAL
0.37 AND HIGHER = HIGH EROSION POTENTIAL

1.2.5 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: NO
HISTORICAL OR ARCHEOLOGICAL AREAS: NO
PRIME AGRICULTURAL LAND: YES

THREATENED AND ENDANGERED SPECIES: THE VERMONT AGENCY OF NATURAL RESOURCES ATLAS MAPPING SHOWS NO RARE, THREATENED OR ENDANGERED SPECIES OR SIGNIFICANT NATURAL COMMUNITIES WITHIN THE PROJECT AREA, AND NONE WERE OBSERVED DURING TWO FIELD REVIEWS.

HABITAT TREES HAVE BEEN IDENTIFIED INSIDE THE PROJECT LIMITS AND THE PROJECT IS SUBJECT TO RESTRICTIONS. THE CONTRACTOR SHALL NOT CUT TREES GREATER THAN THREE INCHES IN DIAMETER FROM APRIL 15TH THROUGH OCTOBER 31. THE CONTRACTOR SHALL SCHEDULE THE REMOVAL OF TREES GREATER THAN THREE INCHES IN DIAMETER OUTSIDE OF THE RESTRICTED TIME. SHOULD THE CONTRACTOR PROPOSE TO CUT TREES WITHIN THE RESTRICTED TIMEFRAME THEY MUST FIRST HIRE A QUALIFIED BIOLOGIST TO CONDUCT A SUITABLE HABITAT ASSESSMENT AND ACOUSTIC MONITORING AS NECCESSARY. A REPORT SHALL BE SUBMITTED TO THE VTRANS BIOLOGIST FOR REVIEW. NO CUTTING IN THE RESTRICTED TIMEFRAME SHALL OCCUR UNTIL PERMISSION IS GRANTED BY THE VTRANS ENVIRONMENTAL SECTION.

WATER RESOURCE: NO

WETLANDS: TWO CLASS III WETLANDS LOCATED AT THE SOUTH WEST OF THE PROJECT.

1.3 RISK EVALUATION

THIS PROJECT DOES NOT FALL UNDER THE JURISDICTION OF GENERAL PERMIT 3-9020 FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES. SHOULD CHANGES PRIOR TO OR DURING CONSTRUCTION RESULT IN ONE OR MORE ACRES OF EARTH DISTURBANCE OR SHOULD THE PROJECT BECOME PART OF A LARGER PLAN OF DEVELOPMENT, THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ADDITIONAL PERMITTING.

1.4 EROSION PREVENTION AND SEDIMENT CONTROL

THE EROSION CONTROL PLANS ARE MEANT AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. THE PRINCIPLES OUTLINED IN THIS NARRATIVE CONSIST OF APPLYING MEASURES THROUGHOUT CONSTRUCTION OF THE PROJECT IN ORDER TO MINIMIZE SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROLS AND OTHER POLLLUTION PREVENTION PRACTICES. THEY HAVE BEEN PROPOSED BY THE DESIGNER AS A BASIS FOR PROTECTING RESOURCES AND WILL NEED TO BE BUILT UPON BASED ON THE SPECIFC MEANS AND METHODS OF THE CONTRACTOR. REFER TO THE LOW RISK SITE HANDBOOK AND APPROPRIATE DETAIL SHEETS FOR SPECIFIC GUIDANCE AND CONSTRUCTION DETAILING.

ALL MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED OF AT AN APPPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

1.4.1 MARK SITE BOUNDARIES

SITE BOUNDARIES AND AREAS CONSTRUCTION EQUIPMENT CAN ACCESS SHALL BE DELINEATED.

BARRIER FENCING (BF) AND SILT FENCING SHALL BE USED TO PHYSICALLY MARK SITE BOUNDARIES.

1.4.2 LIMIT DISTURBANCE AREA

PREVENTING INITIAL SOIL EROSION BY MINIMIZING THE EXPOSED AREA IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. EARTH DISTURBANCE CAN BE MINIMIZED THROUGH CONSTRUCTION PHASING BY ONLY OPENING UP EARTH AS NECESSARY. THIS CAN LIMIT THE AREA THAT WILL BE DISTURBED AND EXPOSED TO EROSION. EMPLOY TEMPORARY CONSTRUCTION STABILIZATION PRACTICES IN INCREMENTAL STAGES AS PHASES CHANGE. FOR PROJECTS WHICH FALL UNDER THE CONSTRUCTION GENERAL PERMIT, ONLY THE ACREAGE LISTED ON THE PERMIT AUTHORIZATION MAY BE EXPOSED AT ANY GIVEN TIME.

MAINTAINING VEGETATED BUFFERS ALONG STREAM BANKS, WETLANDS OR OTHER SENSITIVE AREAS IS A CRUCIAL EROSION AND SEDIMENT CONTROL MEASURE THAT SHOULD BE ESTABLISHED WHEREVER POSSIBLE.

1.4.3 SITE ENTRANCE/EXIT STABILIZATION

TRACKING OF SEDIMENT ONTO PUBLIC HIGHWAYS SHALL BE MINIMIZED TO REDUCE THE POTENTIAL FOR RUNOFF ENTERING RECEIVING WATERS. INSTALLATION SHALL COINCIDE WITH THE CONTRACTORS PROGRESS SCHEDULE. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS PROPOSED ON THE EPSC PLAN AND ANYWHERE EQUIPMENT WILL BE GOING FROM AREAS OF EXPOSED SOILS TO PAVED SURFACES.

1.4.4 INSTALL SEDIMENT BARRIERS

SEDIMENT BARRIERS SHALL BE UTILIZED TO INTERCEPT RUNOFF AND ALLOW SUSPENDED SEDIMENT TO SETTLE OUT. THEY SHALL BE INSTALLED PRIOR TO ANY UP SLOPE WORK.

SILT FENCE WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN.

1.4.5 DIVERT UPLAND RUNOFF

DIVERSIONARY MEASURES SHALL BE USED TO INTERCEPT RUNOFF FROM ABOVE THE CONSTRUCTION AND DIRECT IT AROUND THE DISTURBED AREA SO THAT CLEAN WATER DOES NOT BECOME MUDDIED WHILE TRAVELING OVER EXPOSED SOILS ON THE CONSTRUCITON SITE.

THE PROJECT AREA IS RELATIVELY FLAT. THEREFORE IT IS NOT ANTICIPATED THAT DIVERSION MEASURES WILL BE NECESSARY.

1.4.6 SLOW DOWN CHANNELIZED RUNOFF

NO CHECK STRUCTURES

1.4.7 CONSTRUCT PERMANENT CONTROLS

PERMANENT STORM WATER TREATMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH PERMIT CONDITIONS.

1.4.8 STABILIZE EXPOSED SOILS DURING CONSTRUCTION

ALL AREAS OF DISTURBANCE MUST HAVE TEMPORARY STABILIZATION IN PLACE WITHIN 48 HOURS OF DISTURBANCE OR IN ACCORDANCE WITH THE CONSTRUCTION GENERAL PERMIT 3-9020 AUTHORIZATION.

SURFACE ROUGHENING OF ALL EXPOSED SLOPES, COMBINED WITH TEMPORARY MULCHING, SHALL BE UTILIZED ON A REGULAR BASIS.

DISTURBED AREAS AND SOIL STOCKPILES THAT WILL NOT BE WORKED ON FOR MORE THAN 7 DAYS SHALL BE TEMPORARY STABILIZED WITH MULCH/RECP WITHIN 48 HOURS. EXPOSED AREAS THAT HAVE ACHIEVED FINAL GRADAE SHALL BE PERMANENTLY STABILIZED WITHIN 48 HOURS.

SOIL AT FINAL GRADE

EXPOSED SOIL MUST BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

SEED, MULCH, FERTILIZER AND LIME SHALL BE USED TO ESTABLISH PERMANENT VEGETATION.

1.4.11 DE-WATERING ACTIVITIES

DISCHARGE FROM DEWATERING ACTIVITIES THAT FLOWS OFF OF THE CONSTRUCTION SITE MUST NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE VERMONT WATER QUALITY STANDARDS.

1.4.12 INSPECT YOUR SITE

INSPECT THE PROJECT SITE BASED ON SPECIAL PROVISION REQUIREMENTS OR CONSTRUCTION GENERAL PERMIT AUTHORIZATION STIPULATIONS.

1.5 SEQUENCE AND STAGING

THIS SECTION WILL BE DEVELOPED BY THE CONTRACTOR USING THE GUIDANCE OUTLINED IN THE VTRANS EPSC PLAN CONTRACTOR CHECKLIST.

1.5.1 CONSTRUCTION SEQUENCE

1.5.2 OFF-SITE ACTIVITIES

IN ADDITION TO THE CONTRACTOR CHECKLIST ANY ACTIVITIES OUTSIDE THE CONSTRUCTION LIMITS SHALL FOLLOW SPECIFICATION 105.25- 105.29 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

1.5.3 UPDATES

PROJECT NAME: EAST MONTPELIER VILLAGE SAFTEY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: z12c414EPSC_Narrative.dgn PLOT DATE: 3/23/2018
PROJECT LEADER: B. BRESLEND DRAWN BY: O. DALMER
DESIGNED BY: B. BRESLEND CHECKED BY: C. LATHROP
EPSC NARRATIVE SHEET 21 OF 40

BARRIER FENCE (LINE STYLE)
653.50

BRUSH LAYER
653.75, DETAIL

CHECK DAM (LINE STYLE)
653.25, DETAIL

COFFERDAM (LINE STYLE)
208.40

CURB DROP INLET PROTECTION
653.40, DETAIL

DUST CONTROL
609.10 & 15

PIPE INLET PROTECTION
653.40, DETAIL

EXCAVATED DROP INLET PROTECTION
653.40, DETAIL

FIBER ROLL (EROSION LOG)
653.60, DETAIL

FILTER BAG
653.45, DETAIL

FILTER FABRIC DROP INLET PROTECTION
653.40, DETAIL

LIVE CUTTINGS/LIVE STAKES PLANTING
653.70, DETAIL

LIVE FASCINE
653.65, DETAIL

PROJECT DEMARCATION FENCE (LINE STYLE)
653.55

ROLLED EROSION CONTROL PRODUCT (RECP)
653.20 (TEMP. EROSION MATTING)

SEDIMENT BASIN
INCIDENTAL TO COFFERDAM 208.40

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

SILT FENCE (LINE STYLE)
649.51, DETAIL

SILT FENCE WOVEN WIRE (LINE STYLE)
649.515, DETAIL

STABILIZED CONSTRUCTION ENTRANCE
653.35, DETAIL, VEHICLE TRACKING PAD

STONE & BLOCK DROP INLET PROTECTION
653.40, DETAIL

SURFACE ROUGHENING
INCIDENTAL TO CONTRACT

TURBIDITY CURTAIN
649.61, DETAIL, FILTER CURTAIN

653.20, TEMPORARY EROSION MATTING
651.20, AGRICULTURAL LIMESTONE
651.18, FERTILAZER
651.15, SEED

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

NOTES:

1. THESE PLANS SHOW A CONCEPTUAL EROSION CONTROL PLAN. THE CONTRACTOR MUST SUBMIT A EROSION PREVENTION AND SEDIMENT CONTROL PLAN FOR APPROVAL.

2. TEMPORARY EROSION CONTROL MEASURES ARE CONCEPTUALLY SHOWN. THE CONTRACTOR MAY RELOCATE TEMPORARY MEASURES TO IMPROVE EROSION CONTROL WITH APPROVAL OF THE ENGINEER AND ON SITE COORDINATOR. SILT FENCE SHALL NOT BE INSTALLED ACROSS CONTOURS.

3. THE CONTRACTOR SHALL USE OTHER TEMPORARY EROSION CONTROL MEASURES AS NECESSITATED BY THE SEQUENCE OF CONSTRUCTION OR AS DIRECTED BY THE ENGINEER AND ON SITE COORDINATOR.

4. REFER TO TEMPORARY EROSION CONTROL DETAIL SHEETS FOR ADDITIONAL DETAILS.

PROJECT NAME: EAST MONTPELIER VILLAGE SAFTEY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: z12c414EPSC_Narrative.dgn	PLOT DATE: 3/23/2018
PROJECT LEADER: B. BRESLEND	DRAWN BY: O. DALMER
DESIGNED BY: B. BRESLEND	CHECKED BY: C. LATHROP
EPSC LEGEND & NOTES	SHEET 22 OF 40

CLASS III WETLAND

SOIL INFORMATION:
ADAMS LOAMY FINE SAND, 0-3 % SLOPES, HYDROLOGIC SOIL GROUP: A, K FACTOR = 0.15

SOIL INFORMATION:
DUMMERSTON FINE SANDY LOAM, 15-25% SLOPES, HYDROLOGIC SOIL GROUP: B, K FACTOR = 0.28

CLASS III WETLAND

SOIL INFORMATION:
ADAMS LOAMY FINE SAND, 0-3 % SLOPES, HYDROLOGIC SOIL GROUP: A, K FACTOR = 0.15

N 9+00

TO MONTPELIER

US ROUTE 2

N 10+00

N 11+00

N 12+00

N 13+00

N 14+00

S 19+00

S 20+00

S 21+00

APPROXIMATE EXISTING ROW

APPROXIMATE EXISTING ROW

MATCHLINE STA. N 15+00
SEE NEXT SHEET

MATCHLINE STA. S 21+69
SEE NEXT SHEET

15 3'-0" X 2'-6" X 53'-0" CONC. BOX
INV. 692.54
INV. 692.01

16 15" HDPE (35'-0")
INV IN = 697.46
INV OUT = 694.02

0 20 40
SCALE IN FEET

PROJECT NAME: EAST MONTPELIER VILLAGE SAFTEY PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472Flbdr-ero.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: P. DAY
EPSC EXISTING CONDITIONS PLAN SHEET 1

PLOT DATE: 3/23/2018
DRAWN BY: P. DAY
CHECKED BY: B. BRESLEND
SHEET 23 OF 40

SOIL INFORMATION:
CABOT SILT LOAM, 0-3 % SLOPES
HYDROLOGIC SOIL GROUP: D
K FACTOR = 0.43

SOIL INFORMATION:
DUMMERSTON FINE SANDY LOAM,
15-25% SLOPES, HYDROLOGIC
SOIL GROUP: B, K FACTOR = 0.28

SOIL INFORMATION:
CABOT SILT LOAM, 0-3 % SLOPES
HYDROLOGIC SOIL GROUP: D
K FACTOR = 0.43

SOIL INFORMATION:
ADAMS LOAMY FINE SAND, 0-3 %
SLOPES, HYDROLOGIC SOIL
GROUP: A, K FACTOR = 0.15

TO N. MONT.
VT RTE 14
US ROUTE 2
TO PLAINFIELD
N
VT STATE PLANE GRID
US ROUTE 2
GRAVEL
4" ASBESTOS CEMENT
HYDRANT
SIGNAL
AER E&T
STA. QR 30+00.00=
STA. N 17+12.09
QR 30+75
N 17+80
N 17+45
S 25+00
S 25+79
S 24+00
S 23+00
S 22+00
N 16+00
N 15+00
MATCHLINE STA. N 15+00
SEE PREVIOUS SHEET
MATCHLINE STA. S 21+69
SEE PREVIOUS SHEET

0 20 40
SCALE IN FEET

PROJECT NAME: EAST MONTPELIER VILLAGE SAFTEY PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472Flbdr-ero.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: P. DAY
EPSC EXISTING CONDITIONS PLAN SHEET 2
PLOT DATE: 3/23/2018
DRAWN BY: P. DAY
CHECKED BY: B. BRESLEND
SHEET 24 OF 40

STONE FILL TYPE I
STA. N 10+49 - STA. N 11+77 LT

STONE FILL TYPE II
STA. N 10+51 - -STA. N 10+63 RT

GEOTEXTILE FOR SILT FENCE
STA. N 9+91 - STA. N 11+04 LT
STA. N 11+23 - STA. N 12+85 LT
STA. N 10+10 - STA. N 10+49 RT
STA. N 10+61 - STA. N 10+75 RT
STA. S 21+53 - STA. S 21+69 RT

SEED
STA. N 9+94 - STA. N 11+01 LT
STA. N 11+22 - STA. N 12+84 LT
STA. N 10+10 - STA. N 10+56 RT
STA. N 10+61 - STA. N 10+79 RT
STA. N 10+97 - STA. S 19+63 RT
STA. S 19+85 - STA. S 20+62 RT
STA. S 20+55 - STA. S 21+34 RT
STA. S 21+53 - STA. S 21+69 RT

FERTILIZER
STA. N 9+94 - STA. N 11+01 LT
STA. N 11+22 - STA. N 12+84 LT
STA. N 10+10 - STA. N 10+56 RT
STA. N 10+61 - STA. N 10+79 RT
STA. N 10+97 - STA. S 19+63 RT
STA. S 19+85 - STA. S 20+62 RT
STA. S 20+55 - STA. S 21+34 RT
STA. S 21+53 - STA. S 21+69 RT

AGRICULTURAL LIMESTONE
STA. N 9+94 - STA. N 11+01 LT
STA. N 11+22 - STA. N 12+84 LT
STA. N 10+10 - STA. N 10+56 RT
STA. N 10+61 - STA. N 10+79 RT
STA. N 10+97 - STA. S 19+63 RT
STA. S 19+85 - STA. S 20+62 RT
STA. S 20+55 - STA. S 21+34 RT
STA. S 21+53 - STA. S 21+69 RT

HAY MULCH
STA. N 9+94 - STA. N 11+01 LT
STA. N 11+22 - STA. N 12+84 LT
STA. N 10+10 - STA. N 10+56 RT
STA. N 10+61 - STA. N 10+79 RT
STA. N 10+97 - STA. S 19+63 RT
STA. S 19+85 - STA. S 20+62 RT
STA. S 20+55 - STA. S 21+34 RT
STA. S 21+53 - STA. S 21+69 RT

VEHICLE TRACKING PAD
STA. N 9+92 LT

DROP INLET PROTECTION TYPE I
STA. N 10+05 LT
STA. N 11+09 RT
STA. N 11+42 LT
STA. N 13+55 LT
STA. S 20+14 RT
STA. N 21+61 LT

PIPE INLET PROTECTION TYPE I
STA. N 10+23 LT
STA. N 11+26 LT
STA. N 11+44 LT

BARRIER FENCE
STA. N 9+25 - STA. N 9+78 LT
STA. N 10+98 - STA. S 19+65 RT
STA. N 13+01 - STA. N 13+13 LT
STA. S 19+86 - STA. S 20+54 RT

VT STATE PLANE GRID

BEGIN PROJECT
STA. N 9+64.11

TO MONTPELIER

US ROUTE 2

APPROXIMATE EXISTING ROW

MATCHLINE STA. N 15+00
SEE NEXT SHEET

MATCHLINE STA. S 21+69
SEE NEXT SHEET

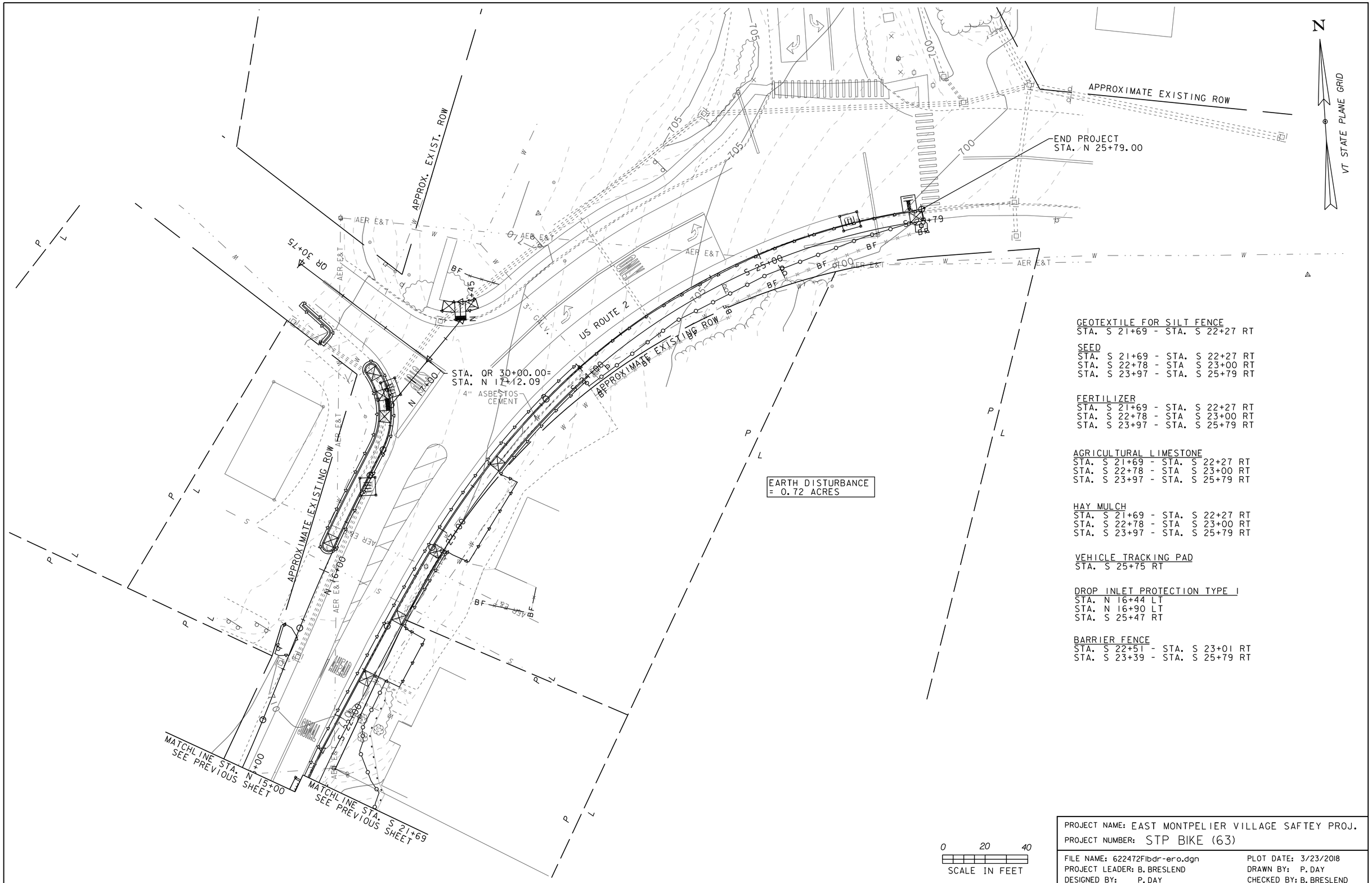
EARTH DISTURBANCE
= 0.72 ACRES

0 20 40
SCALE IN FEET

PROJECT NAME: EAST MONTPELIER VILLAGE SAFTEY PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472Flbdr-ero.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: P. DAY
EPSC CONSTRUCTION PLAN SHEET 1

PLOT DATE: 3/23/2018
DRAWN BY: P. DAY
CHECKED BY: B. BRESLEND
SHEET 25 OF 40



EARTH DISTURBANCE
= 0.72 ACRES

GEOTEXTILE FOR SILT FENCE
STA. S 21+69 - STA. S 22+27 RT

SEED
STA. S 21+69 - STA. S 22+27 RT
STA. S 22+78 - STA S 23+00 RT
STA. S 23+97 - STA. S 25+79 RT

FERTILIZER
STA. S 21+69 - STA. S 22+27 RT
STA. S 22+78 - STA S 23+00 RT
STA. S 23+97 - STA. S 25+79 RT

AGRICULTURAL LIMESTONE
STA. S 21+69 - STA. S 22+27 RT
STA. S 22+78 - STA S 23+00 RT
STA. S 23+97 - STA. S 25+79 RT

HAY MULCH
STA. S 21+69 - STA. S 22+27 RT
STA. S 22+78 - STA S 23+00 RT
STA. S 23+97 - STA. S 25+79 RT

VEHICLE TRACKING PAD
STA. S 25+75 RT

DROP INLET PROTECTION TYPE I
STA. N 16+44 LT
STA. N 16+90 LT
STA. S 25+47 RT

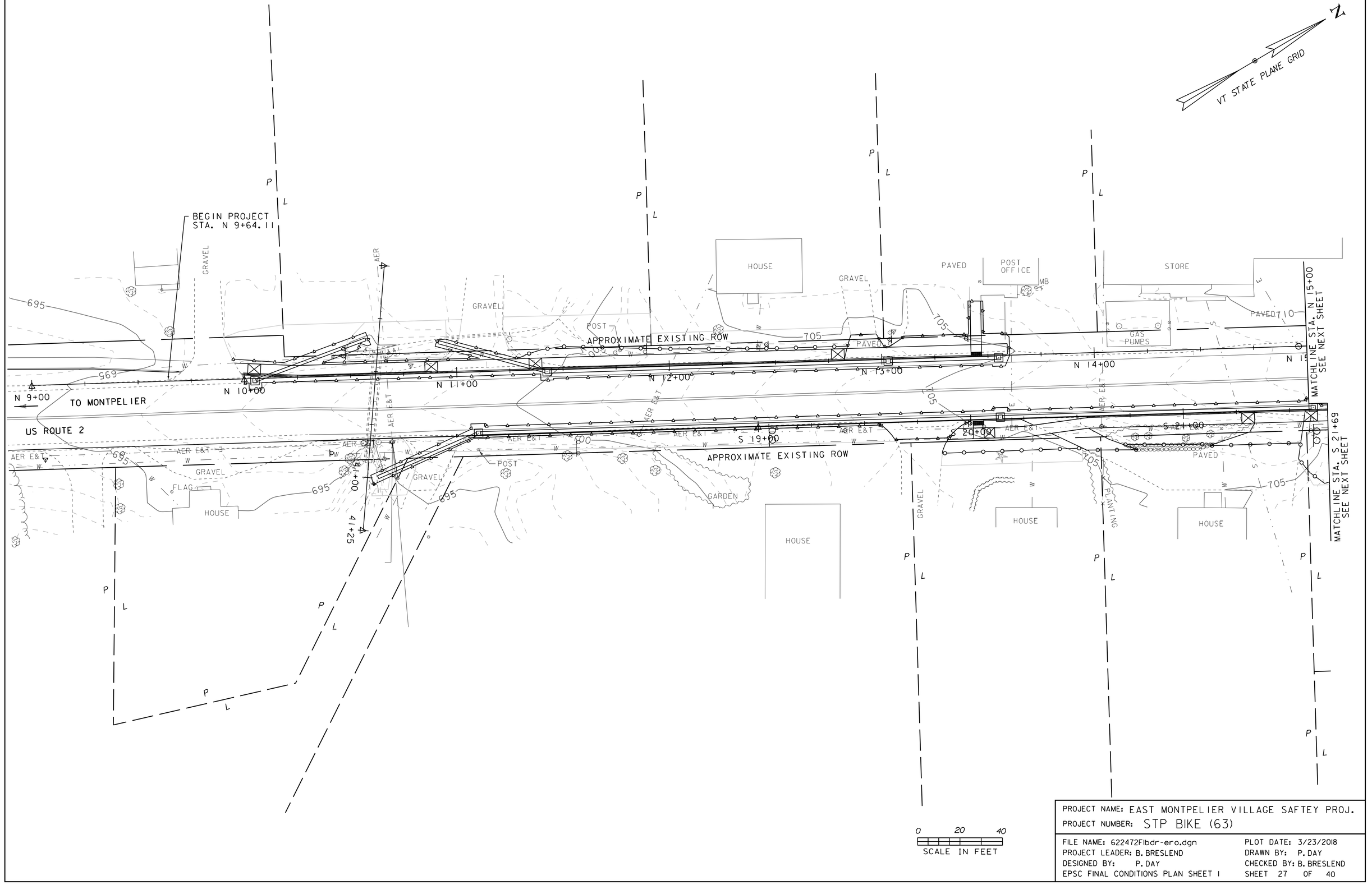
BARRIER FENCE
STA. S 22+51 - STA. S 23+01 RT
STA. S 23+39 - STA. S 25+79 RT

0 20 40
SCALE IN FEET

PROJECT NAME: EAST MONTPELIER VILLAGE SAFTEY PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472Flbdr-ero.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: P. DAY
EPSC CONSTRUCTION PLAN SHEET 2

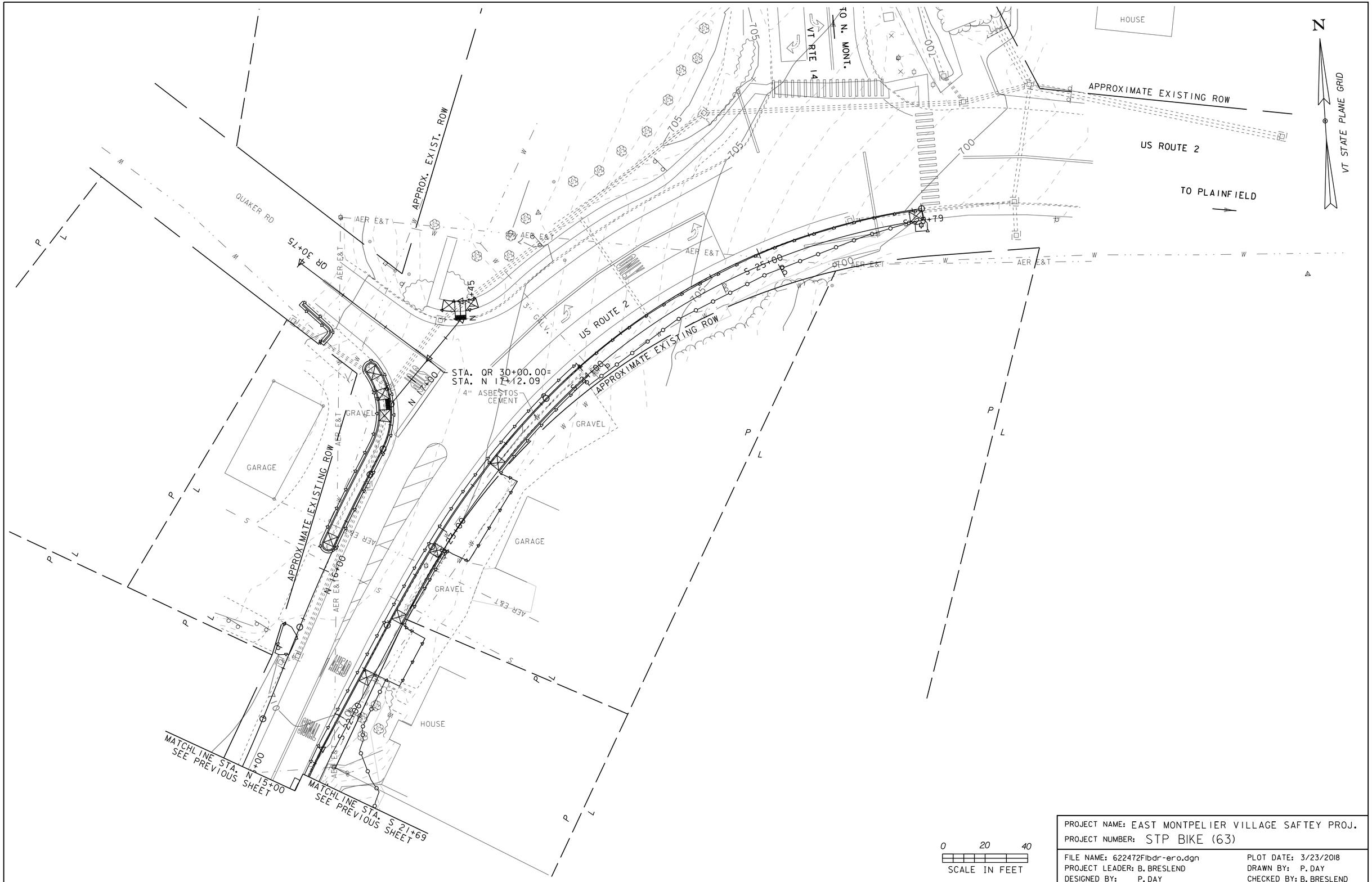
PLOT DATE: 3/23/2018
DRAWN BY: P. DAY
CHECKED BY: B. BRESLEND
SHEET 26 OF 40



PROJECT NAME: EAST MONTPELIER VILLAGE SAFTEY PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472Flbdr-ero.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: P. DAY
EPSC FINAL CONDITIONS PLAN SHEET 1

PLOT DATE: 3/23/2018
DRAWN BY: P. DAY
CHECKED BY: B. BRESLEND
SHEET 27 OF 40



PROJECT NAME: EAST MONTPELIER VILLAGE SAFTEY PROJ.	
PROJECT NUMBER: STP BIKE (63)	
FILE NAME: 622472Flbdr-ero.dgn	PLOT DATE: 3/23/2018
PROJECT LEADER: B. BRESLEND	DRAWN BY: P. DAY
DESIGNED BY: P. DAY	CHECKED BY: B. BRESLEND
EPSC FINAL CONDITIONS PLAN SHEET 2	SHEET 28 OF 40

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

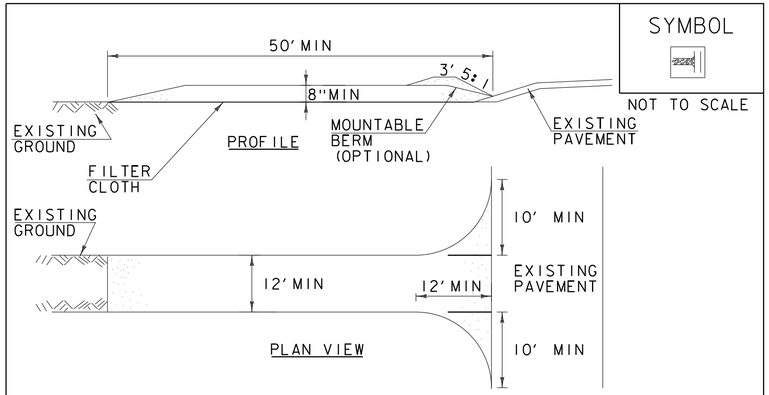
1. SEED MIX: THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER ON WHICH SEED MIX TO USE.
2. SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT 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 651.15)

REVISIONS	
JANUARY 12, 2015	WHF



SYMBOL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. STONE SIZE- USE 1-4" STONE, RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH- NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
3. THICKNESS- NOT LESS THAN 8".
4. WIDTH- 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24' IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
6. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

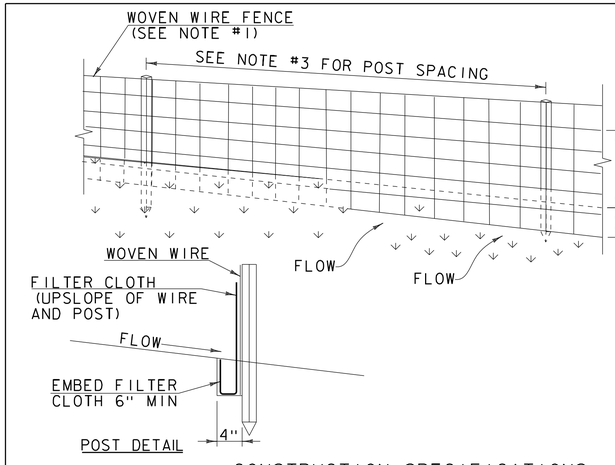
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STABILIZED CONSTRUCTION ENTRANCE

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

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR VEHICLE TRACKING PAD (PAY ITEM 653.35) OR AS SPECIFIED IN THE CONTRACT.

REVISIONS	
MARCH 24, 2008	WHF
JANUARY 13, 2009	WHF



SYMBOL

SILT FENCE

SILT FENCE WOVEN WIRE

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE REINFORCED FENCE IS REQUIRED WITHIN 100' UPSLOPE OF RECEIVING WATERS WHEN THE PROJECT FALLS UNDER A CONSTRUCTION STORMWATER PERMIT. WOVEN WIRE SHALL BE A MIN. 14 GAUGE WITH A 6" MAX. MESH OPENING.
2. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI100X, STABILINKA T140N OR APPROVED EQUIVALENT.
3. POST SPACING FOR WIRE-BACKED FENCE SHALL BE 10' MAXIMUM. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4' AND WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6'.
4. WOVEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. FILTER CLOTH IS TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" AND FOLDED.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

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

SILT FENCE

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

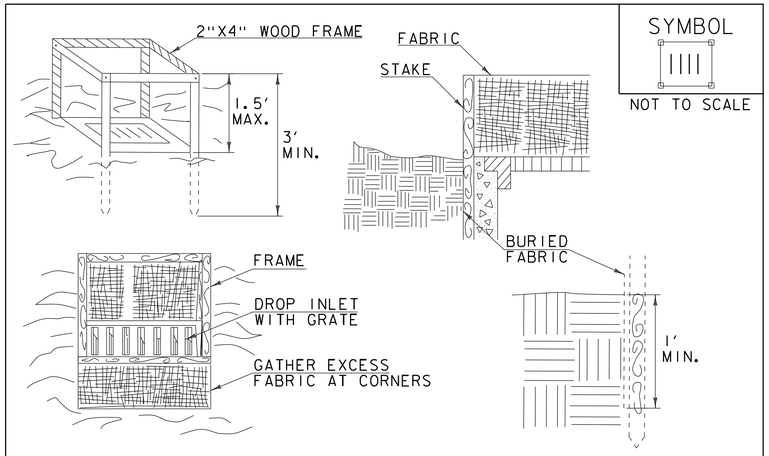
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 649 AND AS SHOWN IN THE PLANS FOR GEOTEXTILE FOR SILT FENCE (PAY ITEM 649.51) OR ~~GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED (PAY ITEM 649.515).~~

REVISIONS	
MARCH 21, 2008	WHF
DECEMBER 11, 2008	WHF
JANUARY 13, 2009	WHF

PROJECT NAME: EAST MONTPELIER VILLAGE SAFTEY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: z12c414EPSC_Narrative.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: B. BRESLEND
EPSC DETAILS SHEET 1

PLOT DATE: 3/23/2018
DRAWN BY: O. DALMER
CHECKED BY: C. LATHROP



SYMBOL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN APPARENT OPENING SIZE OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2"x 4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3'.
4. SPACE STAKES EVENLY AROUND INLET 3' APART AND DRIVE A MINIMUM 18" DEEP. SPANS GREATER THAN 3' MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1' MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.
7. MAXIMUM DRAINAGE AREA 1 ACRE

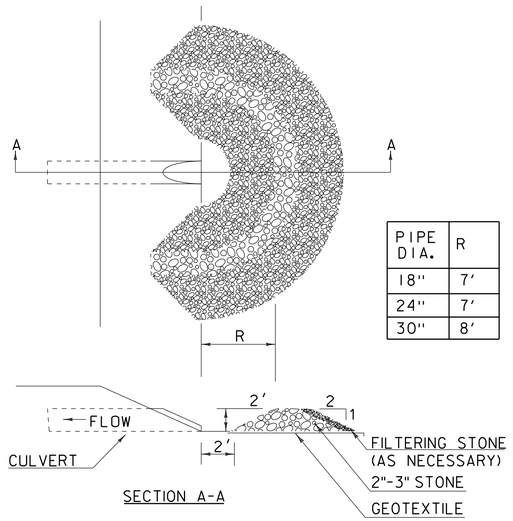
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FILTER FABRIC DROP INLET PROTECTION

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

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR INLET PROTECTION DEVICE, TYPE I(PAY ITEM 653.40).

REVISIONS	
MARCH 7, 2008	WHF
JANUARY 13, 2009	WHF



PIPE DIA.	R
18"	7'
24"	7'
30"	8'

SECTION A-A

SYMBOL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

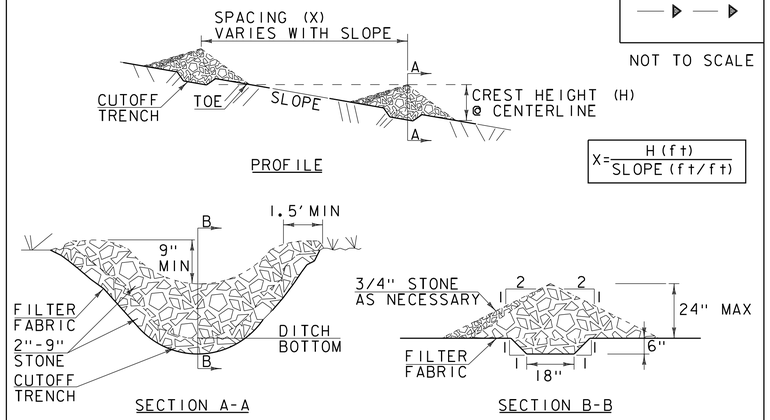
1. USE 2" TO 3" STONE. FILTERING STONE SHALL BE 3/4".
2. PLACE STONE OVER GEOTEXTILE.
3. ONCE THE AREAS UPSTREAM FROM THE CHECK DAM ARE STABILIZED WITH VEGETATION, THE SEDIMENT TRAPPED BEHIND THE DAM SHALL BE DISPOSED OF IN AN APPROVED WASTE AREA.
4. THE CHECK DAM(S) SHALL BE FLATTENED AND GRADED IN A MANNER WHICH PROTECTS THE AREA FROM EROSION AND CHANNEL BLOCKAGE . (GEOTEXTILE MUST BE REMOVED).
5. THE GEOTEXTILE MUST BE DISPOSED OF APPROPRIATELY.
6. THE AREA CONTRIBUTING TO THE CHECK DAM SHALL NOT EXCEED 4 ACRES.

ADAPTED FROM DETAILS PROVIDED BY: ILLINOIS USDA-NRCS
ORIGINALLY DEVELOPED BY USDA-NRCS

PIPE INLET PROTECTION

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR INLET PROTECTION DEVICE, TYPE I(PAY ITEM 653.40).

REVISIONS	
MARCH 6, 2008	WHF
JANUARY 13, 2009	WHF



SYMBOL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION.
2. CHECK DAMS SHALL BE SPACED SO THAT THE ELEVATION OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM.
3. 3/4" FILTERING STONE MAY BE ADDED TO THE FACE OF THE CHECK DAM AS NECESSARY.
4. EXTEND THE STONE A MINIMUM OF 1.5' BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
5. PROTECT CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
6. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
7. MAXIMUM DRAINAGE AREA 2 ACRES.

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

CHECK DAM

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

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR TEMPORARY STONE CHECK DAM, TYPE I(PAY ITEM 653.25)

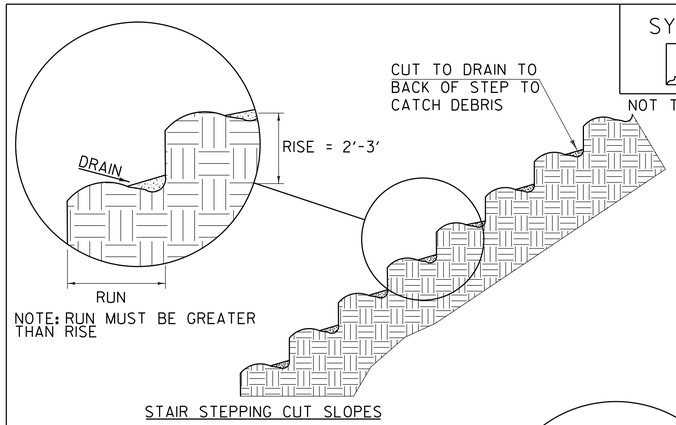
REVISIONS	
MARCH 21, 2008	WHF
JANUARY 8, 2009	WHF

PROJECT NAME: EAST MONTPELIER VILLAGE SAFTEY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472FIEPSC_Narrative.dgn PLOT DATE: 3/23/2018
PROJECT LEADER: B. BRESLEND DRAWN BY: O. DALMER
DESIGNED BY: B. BRESLEND CHECKED BY: C. LATHROP
EPSC DETAILS SHEET 2 SHEET 30 OF 40

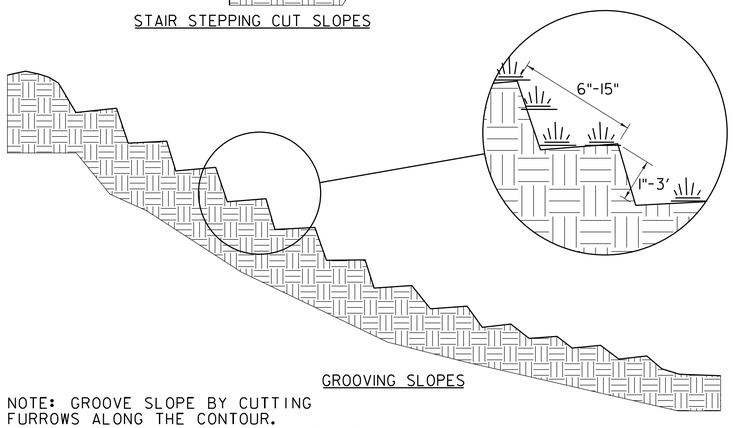
SYMBOL

NOT TO SCALE



NOTE: RUN MUST BE GREATER THAN RISE

STAIR STEPPING CUT SLOPES



GROOVING SLOPES

NOTE: GROOVE SLOPE BY CUTTING FURROWS ALONG THE CONTOUR. IRREGULARITIES IN THE SOIL SURFACE CATCH RAINWATER AND RETAIN LIME, FERTILIZER AND SEED.

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

SURFACE ROUGHENING

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

THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT

REVISIONS	
APRIL 1, 2008	WHF
JANUARY 13, 2009	WHF

PROJECT NAME: EAST MONTPELIER VILLAGE SAFTEY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472F1EPSC_Narrative.dgn PLOT DATE: 3/23/2018
PROJECT LEADER: B. BRESLEND DRAWN BY: O. DALMER
DESIGNED BY: B. BRESLEND CHECKED BY: C. LATHROP
EPSC DETAILS SHEET 3 SHEET 31 OF 40

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 1

MILE MARKER, STATION OR SIGN NUMBER		SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST POST		NEW SIGN POSTS																				REMARKS	SIGN DETAIL		
		EACH	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN	SALV TIS	RETAIN	SALVAGE	NO. OF POST	FLANGED CHANNEL (LB / FT)			SQUARE STEEL (in) (LB / FT)			ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) (LB / FT)			FOUND-ATION	TUBULAR STEEL Ø (IN) (LB / FT)				W-SHAPE STEEL FTG. SIZE		WEIGHT	POST SIZE	SIGN FRAME REQUIRED		DETAIL IN SHSM	DETAIL ON SHEET NUMBER	STANDARD SHEET NUMBER
															1.75	2.00	2.50			3.00	4.00	4.0 MOD		3.00	3.50	4.00	5.00	24"	30"						
												1.12	2.00	3.00	1.88	2.42	3.35			1.30	1.70	1.70		7.60	9.00	10.80	14.60								
OPTION ITEMS																																			
STA. N 10+35 RT EAST MONTPELIER			30	30	6.25						1					15		X														W11-2	X		
			24	12	2.00																											W16-9P	X		
STA. 10+47 LT EAST MONTPELIER			30	30			1				2					30		X														SALVAGE SIGN ON NEW POST			
			30	8			1																									SALVAGE SIGN ON NEW POST			
STA. N 11+89 LT EAST MONTPELIER			30	30			1				1					15		X														SALVAGE SIGN ON NEW POST			
STA. N 12+46 LT EAST MONTPELIER			21	15			1				1					15		X														SALVAGE SIGN ON NEW POST			
			24	24			1																									SALVAGE SIGN ON NEW POST			
STA. N 13+04 LT EAST MONTPELIER			24	30			1				1					15		X														SALVAGE SIGN ON NEW POST			
STA. N 13+40 LT EAST MONTPELIER			30	30	6.25						1					15		X														W11-2	X		
			24	12	2.00																											W16-7P	X		
															FT 0	FT 105	FT 0		EA					LB	LB	LB	LB								
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."	TOTALS				SF 16.50	SF	EA. 6	SF				FT			FT 105					LB			EA.	LB				EA.	EA.	LB					

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472Fltsss.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: O. DALMER
TRAFFIC SIGN SUMMARY SHEET 1

PLOT DATE: 3/23/2018
DRAWN BY: O. DALMER
CHECKED BY: C. LATHROP

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 2

MILE MARKER, STATION OR SIGN NUMBER		SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST POST		NEW SIGN POSTS																					REMARKS	SIGN DETAIL		
		EACH	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN	SALV TIS	RETAIN	SALVAGE	NO. OF POST	FLANGED CHANNEL (LB / FT)			SQUARE STEEL (in) (LB / FT)			ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) (LB / FT)			FOUND-ATION	TUBULAR STEEL Ø (IN) (LB / FT)				W-SHAPE STEEL FTG. SIZE		WEIGHT	POST SIZE	SIGN FRAME REQUIRED		DETAIL IN SHSM	DETAIL ON SHEET NUMBER	STANDARD SHEET NUMBER
															1.75	2.00	2.50			3.00	4.00	4.0 MOD						24"	30"						
												1.12	2.00	3.00	1.88	2.42	3.35			1.30	1.70	1.70		7.60	9.00	10.80	14.60								
OPTION ITEMS																																				
STA. N 15+58 LT EAST MONTPELIER			30	30	6.25						1					15		X														W11-2	X		
			24	12	2.00																											W16-9P	X		
STA. S 19+05 RT EAST MONTPELIER			30	30			1				2					30		X														SALVAGE SIGN ON NEW POST			
STA. 19+99 RT EAST MONTPELIER			30	30			1				1					15		X														SALVAGE SIGN ON NEW POST			
			24	12	2.00																											W16-7P	X		
STA. S 21+61 RT EAST MONTPELIER			72	20			1				2					30		X														SALVAGE SIGN ON NEW POST			
STA. S 24+11 RT EAST MONTPELIER			30	30			1				1					15		X														SALVAGE SIGN ON NEW POST			
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."												FT 0			FT 105		FT 0		EA					LB	LB	LB	LB								
	TOTALS				SF 10.25	SF	EA. 4	SF				FT			FT 105					LB			EA.	LB				EA.	EA.	LB					

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472Fltsss.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: O. DALMER
TRAFFIC SIGN SUMMARY SHEET 2

PLOT DATE: 3/23/2018
DRAWN BY: O. DALMER
CHECKED BY: C. LATHROP
SHEET 33 OF 40

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 3

MILE MARKER, STATION OR SIGN NUMBER		SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST POST		NEW SIGN POSTS																					REMARKS	SIGN DETAIL		
		EACH	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN	SALV TIS	RETAIN	SALVAGE	NO. OF POST	FLANGED CHANNEL (LB / FT)			SQUARE STEEL (in) (LB / FT)			ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (IN) (LB / FT)			TUBULAR STEEL Ø (IN) FOUND-ATION		(LB / FT)			W-SHAPE STEEL FTG. SIZE		WEIGHT	POST SIZE	SIGN FRAME REQUIRED		DETAIL IN SHSM	DETAIL ON SHEET NUMBER	STANDARD SHEET NUMBER
															1.75	2.00	2.50			3.00	4.00	4.0 MOD		3.00	3.50	4.00	5.00	24"	30"						
												1.12	2.00	3.00	1.88	2.42	3.35			1.30	1.70	1.70		7.60	9.00	10.80	14.60								
OPTION ITEMS																																				
STA. S 25+07 RT EAST MONTPELIER	NORTH EAST		24 24	12 12			1 1				2					30		X														SALVAGE SIGN ON NEW POST SALVAGE SIGN ON NEW POST			
	VERMONT 14 2		24 24	24 24			1 1																									SALVAGE SIGN ON NEW POST SALVAGE SIGN ON NEW POST			
			21 21	15 15			1 1																									SALVAGE SIGN ON NEW POST SALVAGE SIGN ON NEW POST			
STA. QR 30+07 LT EAST MONTPELIER	Quaker Rd		12	42			1				1					15		X														SALVAGE SIGN ON NEW POST			
	STOP		30	30			1																									SALVAGE SIGN ON NEW POST			
	0020 1207 0294		6	10.00			1																									SALVAGE SIGN ON NEW POST			
	TSSS 1 TOTAL TSSS 2 TOTAL TSSS 3 TOTAL		16.50 10.25 0.00				6 4 9								0 0 0	105 105 45	0 0 0			0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0								
	SUBTOTAL		26.75												FT 0	FT 255	FT 0		EA					LB 0	LB 0	LB 0	LB 0								
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."	ROUNDING =		3.25													0																			
	TOTALS		SF 30.00		SF		EA. 19.	SF				FT			FT 255					LB .			EA. 0	LB 0				EA.	EA.	LB				

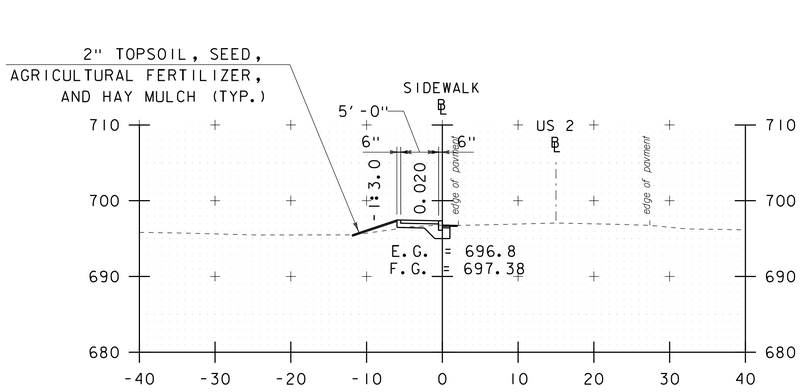
PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472Fitsss.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: O. DALMER
TRAFFIC SIGN SUMMARY SHEET 3

PLOT DATE: 3/23/2018
DRAWN BY: O. DALMER
CHECKED BY: C. LATHROP
SHEET 34 OF 40

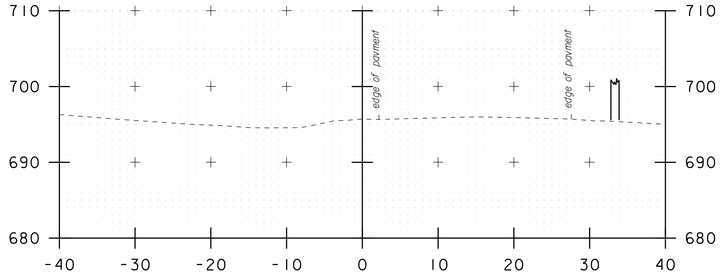
(5) STA. N 10+82.94 RT 1.00' TO STA. N 11+42.46 RT 1.00'
INSTALL 18" CPEP (58'-0")
S = 0.005
INV IN = 694.90
INV OUT = 694.61

(7) STA. N 11+42.56 RT 1.00' TO STA. N 13+04.00 RT 1.00'
INSTALL 18" CPEP (158'-6")
S = 0.019
INV = 698.44
INV = 695.41

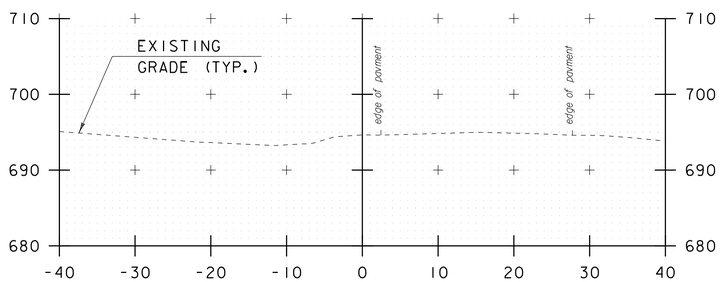


BEGIN PROJECT
BEGIN 5' CONCRETE SIDEWALK
STA. N 9+64.11

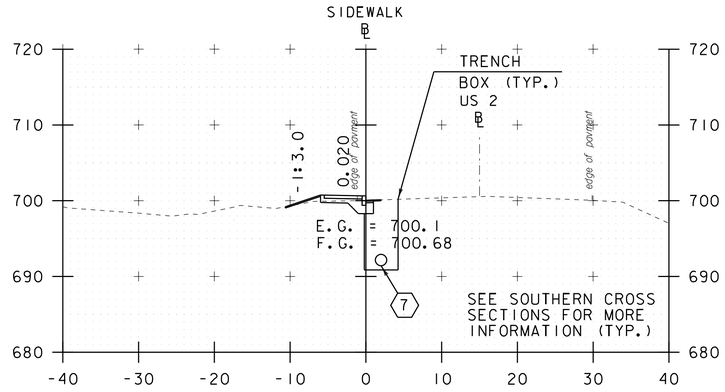
N 10+00



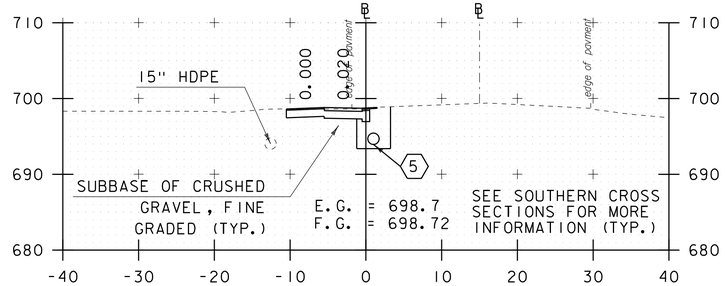
N 9+50



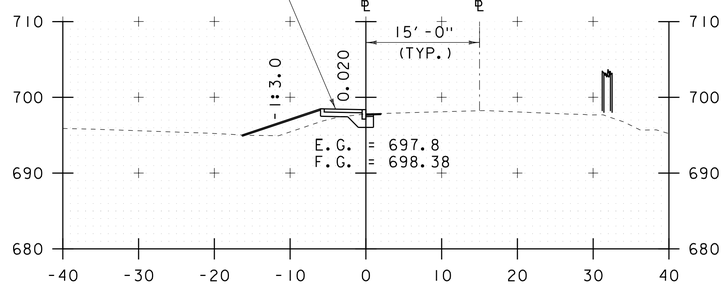
N 9+00



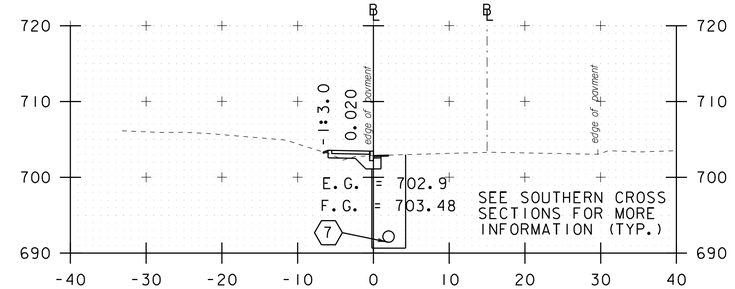
N 11+50



N 11+00

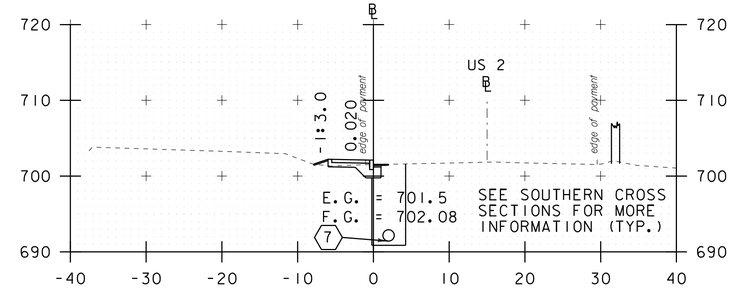


N 10+50



N 13+00

N 12+50



N 12+00

0 10 20
SCALE IN FEET

STA. N 9+00 TO STA. N 13+00

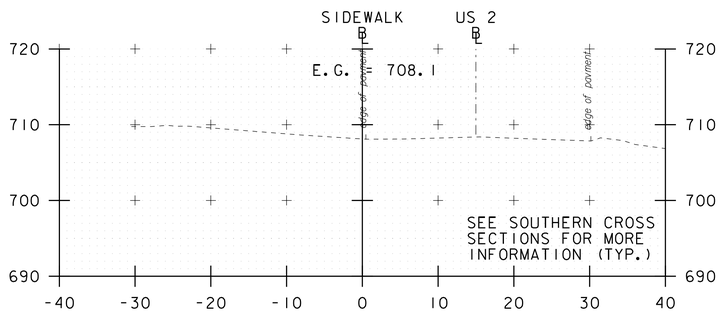
FINAL – NOT FOR CONSTRUCTION

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

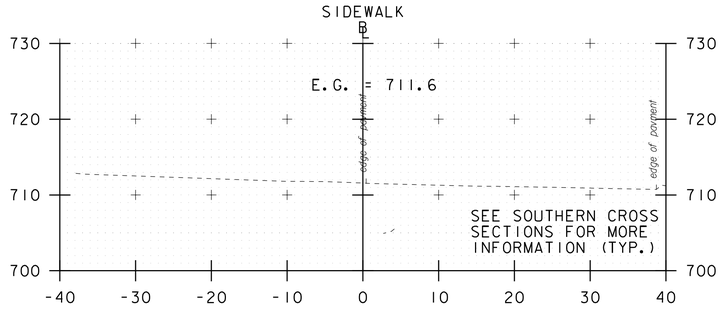
FILE NAME: 622472xs.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: G. CONTAVE
CROSS SECTION SHEET 1

PLOT DATE: 3/23/2018
DRAWN BY: G. CONTAVE
CHECKED BY: C. LATHROP
SHEET 35 OF 40

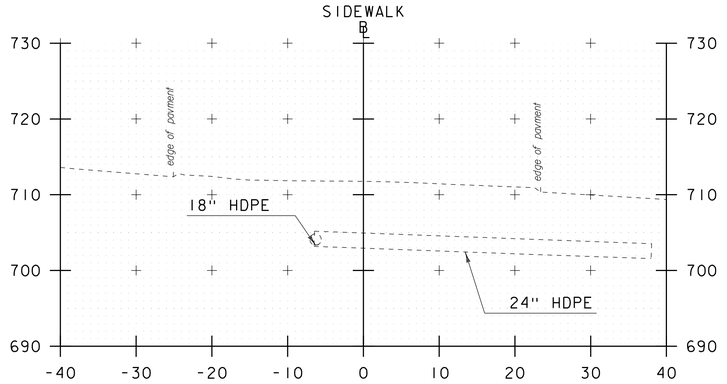
(9) STA. N 13+04.00 RT 1.00' TO
STA. N 13+50.00 RT 1.00'
INSTALL 18" CPEP (52'-0")
S = 0.020
INV IN = 699.98
INV OUT = 698.98



N 13+50

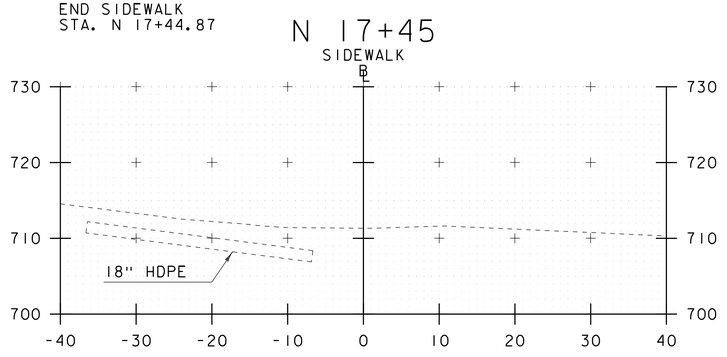


N 15+00

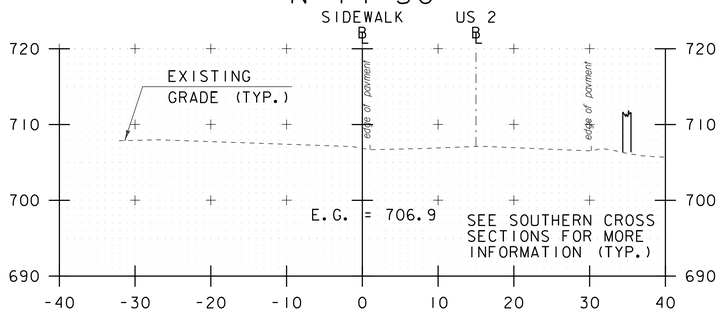


N 16+50

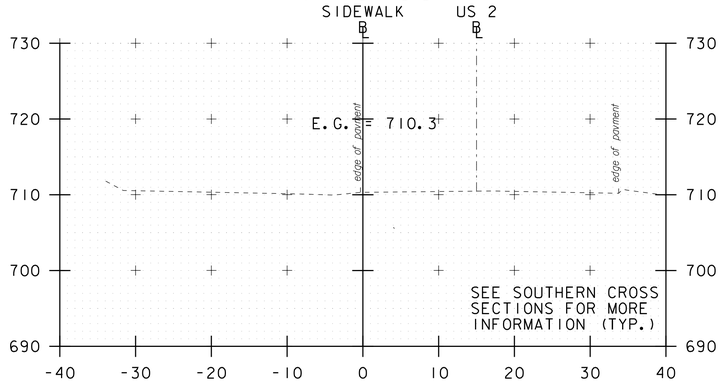
END SIDEWALK
STA. N 17+44.87



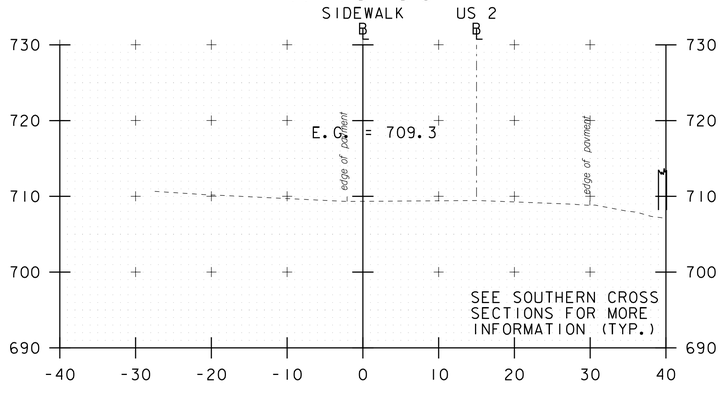
N 17+45



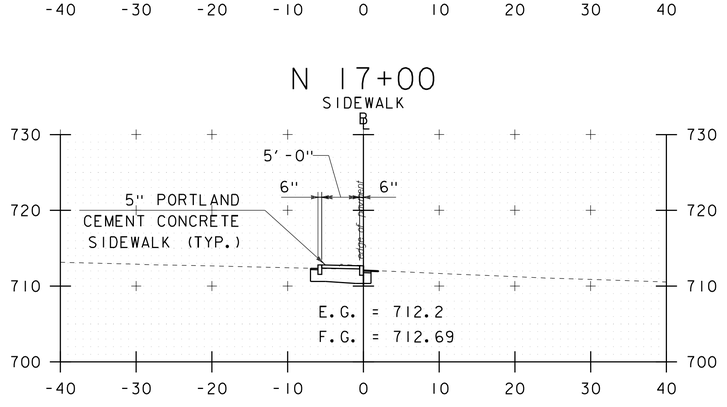
N 14+50



N 15+50

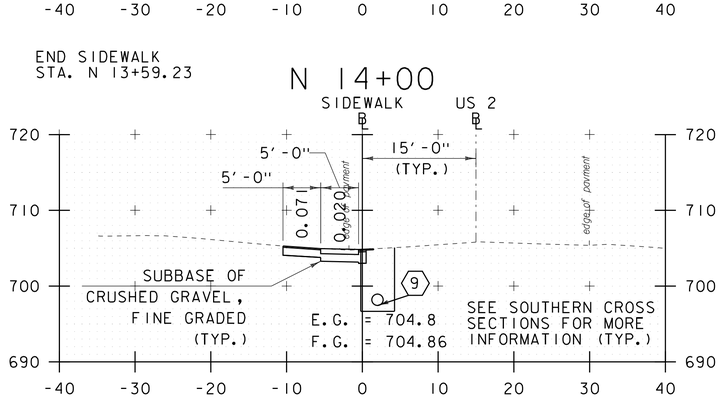


N 16+00



N 17+00

END SIDEWALK
STA. N 13+59.23



N 13+00

0 10 20
SCALE IN FEET

STA. N 13+50 TO STA. N 17+45

FINAL – NOT FOR CONSTRUCTION

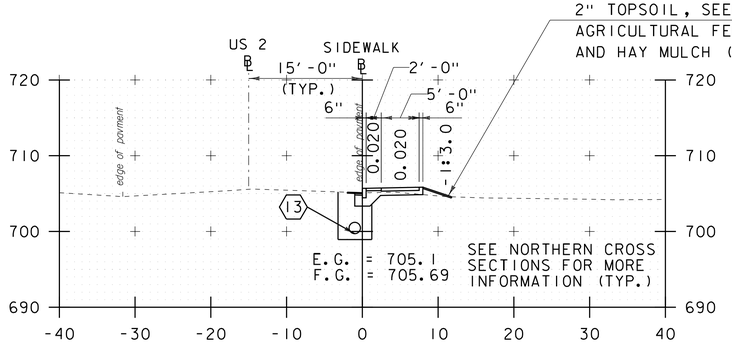
PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

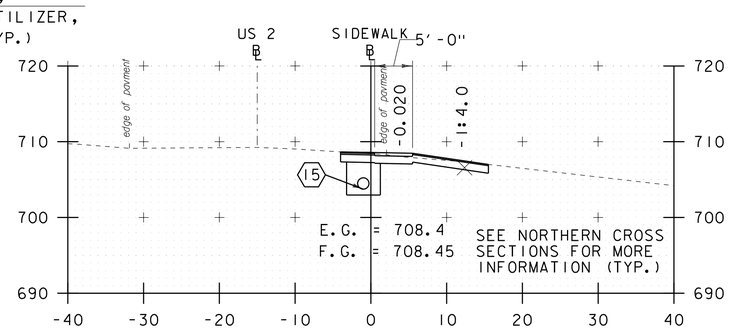
FILE NAME: 622472xs.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: G. CONTAVE
CROSS SECTION SHEET 2

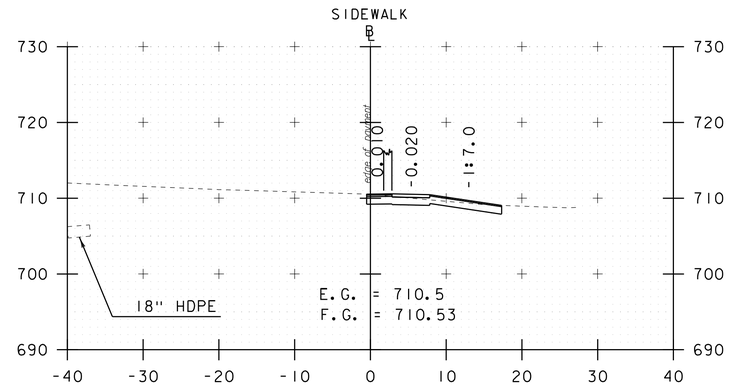
PLOT DATE: 3/23/2018
DRAWN BY: G. CONTAVE
CHECKED BY: C. LATHROP
SHEET 36 OF 40

(13) STA. N 11+09.37 RT 28.99' TO
STA. S 20+14.03 LT 1.00'
INSTALL 18" CPEP (243'-6")
S = 0.025
INV IN = 700.04
INV OUT = 693.95

(15) STA. S 20+17.03 LT 1.00' TO
STA. S 21+61.23 LT 1.00'
INSTALL 18" CPEP (145'-0")
S = 0.024
INV IN = 703.96
INV OUT = 700.54

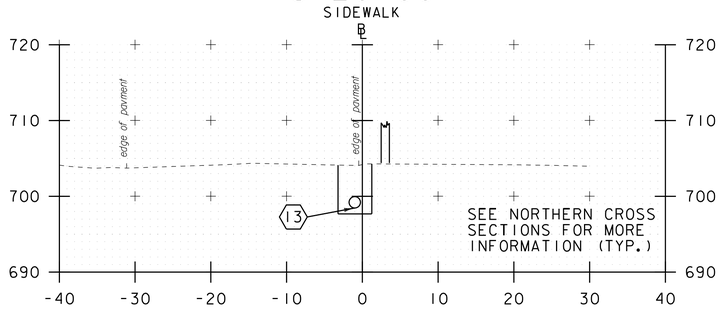




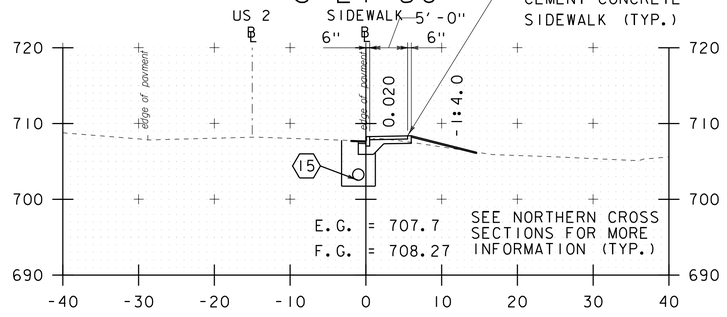


BEGIN SIDEWALK
STA. S 19+88.99

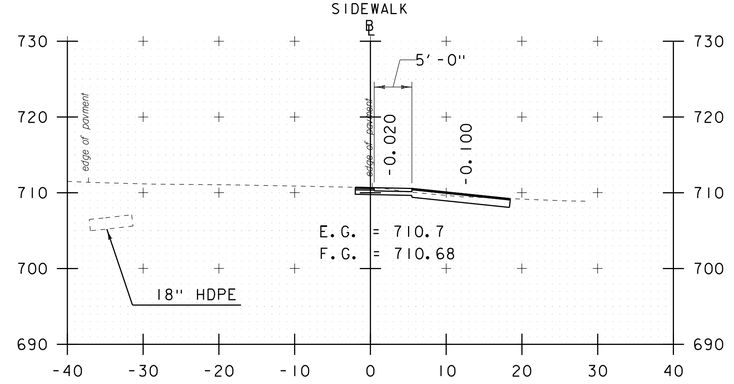
S 20+00



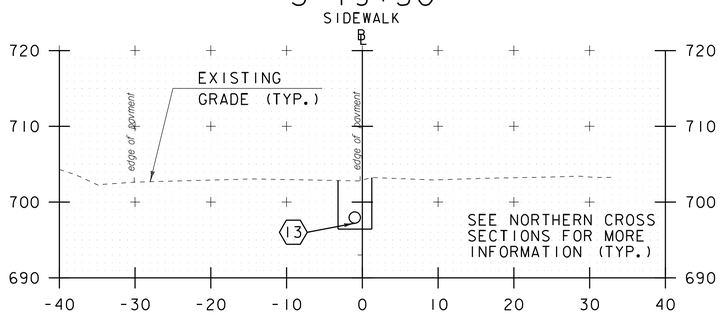
S 21+50



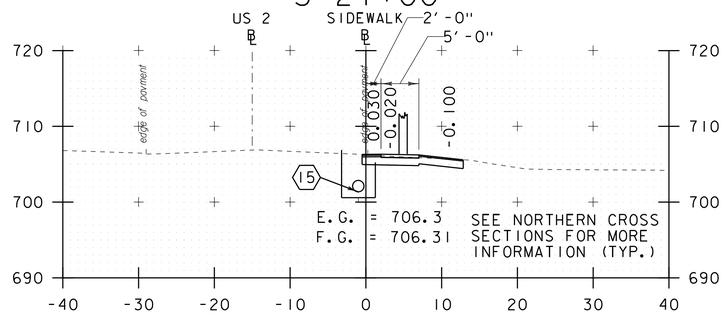
S 23+00



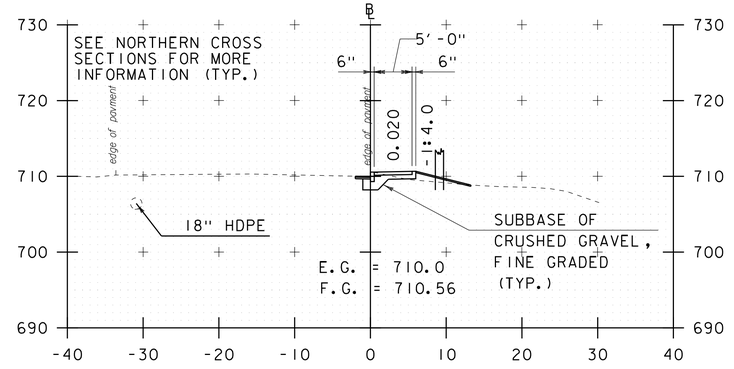
S 19+50



S 21+00



S 22+50



S 19+00

S 20+50

S 22+00

0 10 20
SCALE IN FEET

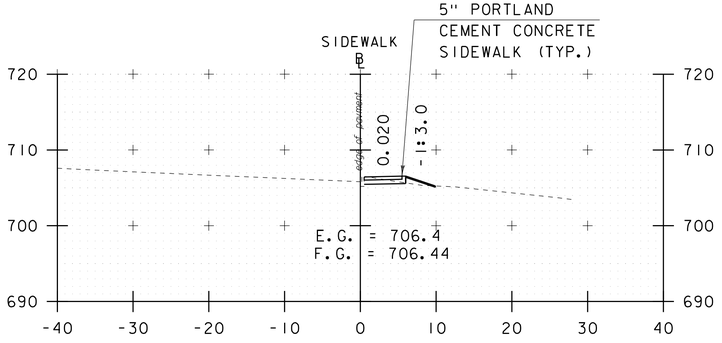
STA. S 19+00 TO STA. S 23+00

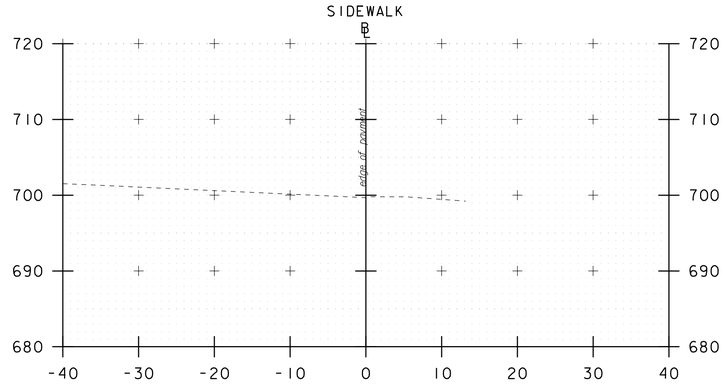
FINAL – NOT FOR CONSTRUCTION

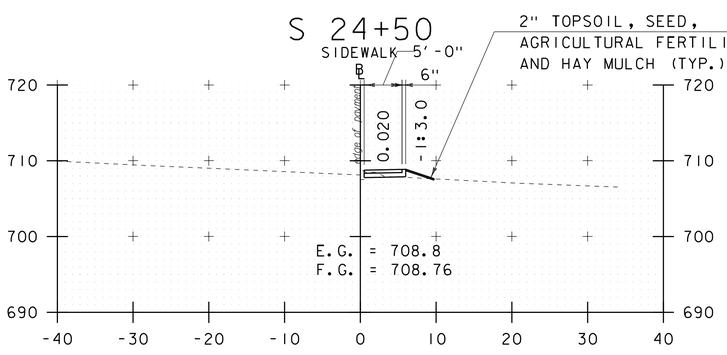
PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

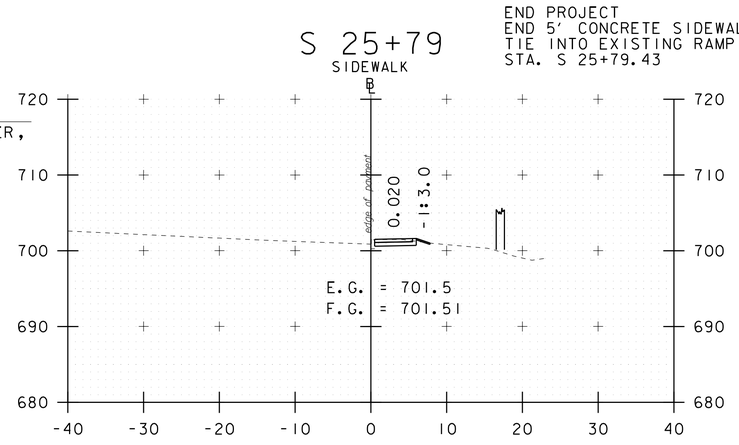
FILE NAME: 622472xs.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: G. CONTAVE
CROSS SECTION SHEET 3

PLOT DATE: 3/23/2018
DRAWN BY: G. CONTAVE
CHECKED BY: C. LATHROP
SHEET 37 OF 40

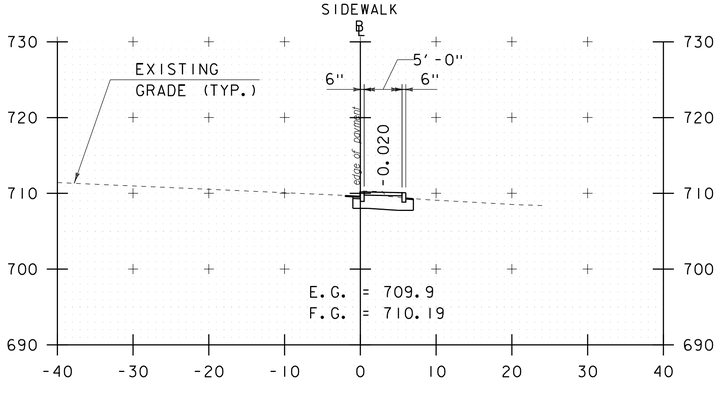






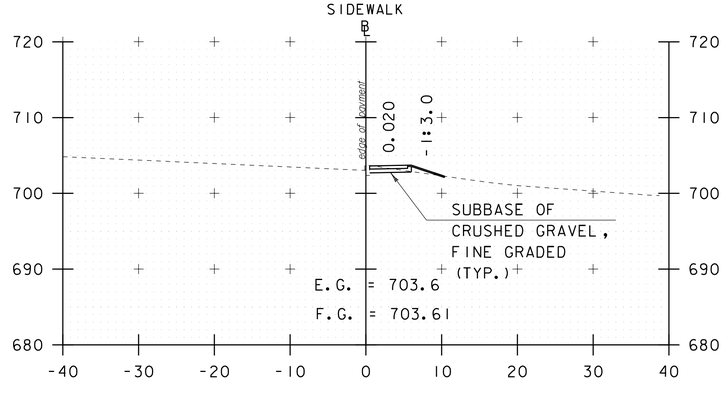


S 24+00



S 23+50

S 25+50



S 25+00

0 10 20
SCALE IN FEET

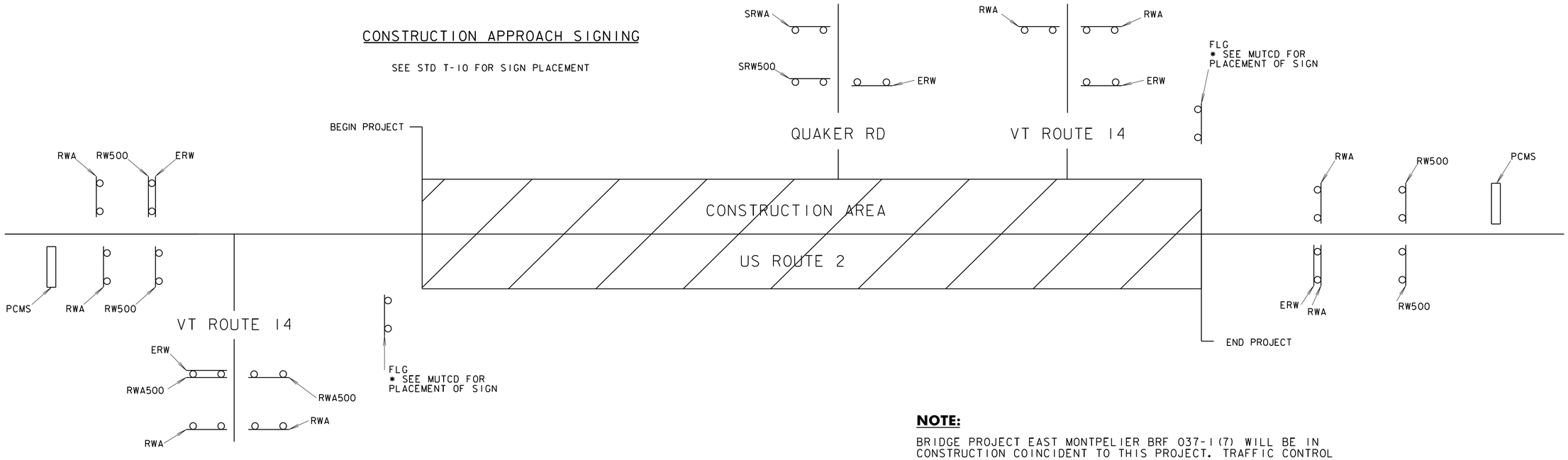
STA. S 23+50 TO STA. S 25+79

FINAL – NOT FOR CONSTRUCTION

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.	
PROJECT NUMBER: STP BIKE (63)	
FILE NAME: 622472xs.dgn	PLOT DATE: 3/23/2018
PROJECT LEADER: B. BRESLEND	DRAWN BY: G. CONTAVE
DESIGNED BY: G. CONTAVE	CHECKED BY: C. LATHROP
CROSS SECTION SHEET 4	SHEET 38 OF 40

CONSTRUCTION APPROACH SIGNING

SEE STD T-10 FOR SIGN PLACEMENT



NOTE:

BRIDGE PROJECT EAST MONTPELIER BRF 037-1(7) WILL BE IN CONSTRUCTION COINCIDENT TO THIS PROJECT. TRAFFIC CONTROL SIGNING SHALL BE COORDINATED WITH THE BRIDGE REPLACEMENT PROJECT.

	ROAD WORK AHEAD	ROAD WORK 500 FT	SIDE ROAD WORK AHEAD	SIDE ROAD WORK 500 FT	PCMS	END ROAD WORK	FLAGGER AHEAD
EAST MONTPELIER							
BEGIN PROJECT- US ROUTE 2	2	2			1	1	1
VT ROUTE 14 - WEST INTERSECTION	2	2				1	
QUAKER RD			1	1		1	
ROUTE 14 - NORTH INTERSECTION	2					1	
END PROJECT - US ROUTE 2	2	2			1	1	1
TOTALS	8	6	1	1	2	5	2

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
FLG	=	FLAGGER AHEAD

NOT TO SCALE

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.

PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472F1cas.dgn PLOT DATE: 3/23/2018

PROJECT LEADER: B. BRESLEND DRAWN BY: P. DAY

DESIGNED BY: P. DAY CHECKED BY: C.LATHROP

CONSTRUCTION APPROACH SIGNING SHEET SHEET 39 OF $T*$

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CORRIDOR 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 APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN PACKAGE FOR EXPECTED LANE CLOSURES, WORK ZONE SPEED REDUCTIONS AND PEDESTRIAN ACCESS. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) WILL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 641.10, "TRAFFIC CONTROL". THE TRAFFIC CONTROL PLAN SHALL BE IN COMPLIANCE WITH VTRANS STANDARDS AND THE LATEST EDITION OF THE MUTCD. WHERE CONFLICTS EXIST, THE LATEST EDITION OF THE MUTCD SHALL GOVERN.

2. THE BID PRICE FOR "TRAFFIC CONTROL", ITEM 641.10, SHALL INCLUDE ALL OF THE FOLLOWING, AS NEEDED: APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, PORTABLE ARROW BOARDS, 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, 646.682, 646.692 - TEMPORARY PAVEMENT MARKINGS 630.10 - UNIFORMED TRAFFIC OFFICER, 630.15 - FLAGGERS, 641.15 - PORTABLE CHANGEABLE MESSAGE SIGN.

3. BARRELS, CONES, TEMPORARY TRAFFIC BARRIERS, AND ENERGY ABSORPTION ATTENUATORS SHALL BE USED TO CLEARLY DEFINE THE TRAVEL SPACE AND PROVIDE SEPARATION FROM THE WORK SPACE ALONG ITS ENTIRE LENGTH. REFLECTORIZED CONES WILL BE USED TO DELINEATE COMMERCIAL DRIVES WITHIN THE WORK ZONE.

4. THE CONTRACTOR SHALL PROVIDE FLAGGERS FOR ONE LANE TRAFFIC CONTROL, AND AT LOCATIONS WHERE SIGHT DISTANCES ARE IMPAIRED BY CONSTRUCTION OPERATIONS OR OTHER SITUATIONS.

5. FLAGGERS SHALL BE REQUIRED TO USE TWO-WAY RADIOS, WALKIE-TALKIES OR OTHER FORMS OF ENHANCED COMMUNICATION WHEN ONE FLAGGER IS NOT VISIBLE TO THE OTHER, OR IF THE ENGINEER DEEMS IT NECESSARY.

6. STOP/SLOW PADDLES SHALL BE USED FOR ALL FLAGGING, AND SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE MUTCD.

7. A MINIMUM LANE WIDTH OF 11 FT. SHALL BE MAINTAINED.

8. WHEN COLD PLANED BITUMINOUS PAVEMENT IS OPEN TO TRAFFIC, A "MOTORCYCLES USE CAUTION" SIGN, AS PER VAOT STANDARD T-17, SHALL BE PROVIDED.

9. THE CONTRACTOR SHOULD LEAVE NO LONGITUDINAL DROP-OFFS DURING THE OVERNIGHT HOURS. THEREFORE, THE FULL ROADWAY WIDTH SHOULD BE COLD PLANED OR PAVED DURING THE DAILY WORK PERIOD. WHEN NECESSARY, DROP-OFF PROTECTION IN THESE AREAS SHALL CONFORM TO VAOT STANDARD T-36.

10. THE CONTRACTOR SHALL PROVIDE ACCESS THROUGH THE WORK ZONE AND MAINTAIN ACCESS TO ALL PROPERTIES FOR EMERGENCY VEHICLES AT ALL TIMES OR COORDINATE EMERGENCY ROUTES.

11. THE CONTRACTOR SHALL NOT PARK EQUIPMENT OR STORE MATERIAL WHERE IT IS DEEMED BY THE ENGINEER TO BE A SAFETY HAZARD.

12. ACCESS TO ALL COMMERCIAL AND MUNICIPAL PROPERTIES SHALL BE MAINTAINED 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.

13. 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 PREFERED WIDTH SHOULD BE MAINTAINED THROUGH WORK ZONES TO ACCOMODATE BICYCLES WHERE PRACTICAL.

14. SEE VAOT STANDARDS T-10 AND T-17 FOR ADDITIONAL SIGN PLACEMENT DETAILS.

15. 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.

16. THE LATEST EDITION OF THE MUTCD SHALL BE THE STANDARD FOR ALL TRAFFIC CONTROL DEVICES. EXISTING SIGNS AND MARKINGS SHALL BE VALID UNTIL SUCH TIME AS THEY ARE REPLACED OR RECONSTRUCTED. WHEN NEW TRAFFIC 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.

17. 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.

18. 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 641.10 TRAFFIC CONTROL.

19. CONSTRUCTION SIGNS SHALL BE IN NEW OR LIKE NEW CONDITION PER VAOT STANDARDS.

20. FOR TRAFFIC CONTROL GENERAL NOTES, SEE VAOT STANDARD T-1.

21. DIAMOND SHAPED SIGNS SHALL BE 4'X4' WITH BLACK TEXT AND BORDER ON A RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND.

PEDESTRIAN NOTES

1. THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) FOR REVIEW AND WRITTEN APPROVAL BY THE RESIDENT ENGINEER A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC.

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.

4. IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE MUST BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE FIRM, STABLE AND SLIP-RESISTANT AND CONTINUOS 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 WARNINGS 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 7 FEET ON CENTER APART. IT SHOULD BE NOTED THAT CURB PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF MIDBLOCK 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 CANALIZING 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 INCLUDE A CONTINUOS 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 BOTTOM RAIL SURFACE NO HIGHER THAN 2 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 PATH OF TRAVEL.

11. PROVISIONS 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 FOR INCIDENTAL TO ITEM 641.10 "TRAFFIC CONTROL".

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TRAFFIC CONTROL NOTES SHEET

PLOT DATE: 3/23/2018
DRAWN BY: O. DALMER
CHECKED BY: C. LATHROP
SHEET 40 OF 40