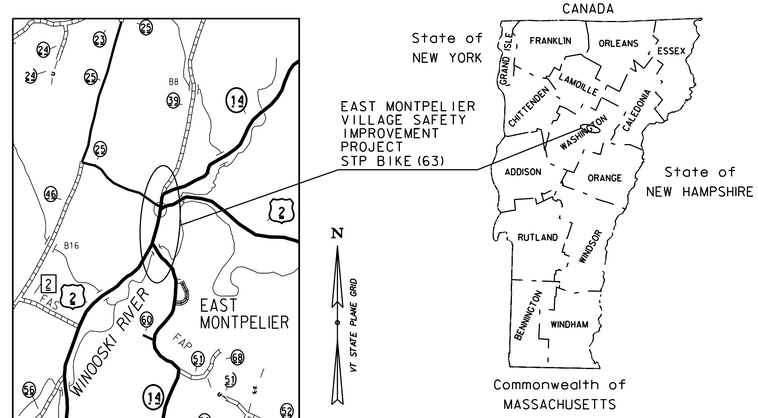
VTRANS STANDARDS

B-5	SLOPE GRADING, EMBANKMENTS, MUCK	06/01/1994
B-71	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
D-15	PRECAST REINF CONC. MH-GRATES, CAST IRON GRATE WITH FRAME, TYPE D & E	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	04/25/2016
T-2	TRAFFIC SIGN GENERAL NOTES	04/25/2016
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-36	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS FOR PAVING	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
(PRINCIPAL ARTERIAL)



LOCATION MAP
NOT TO SCALE

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

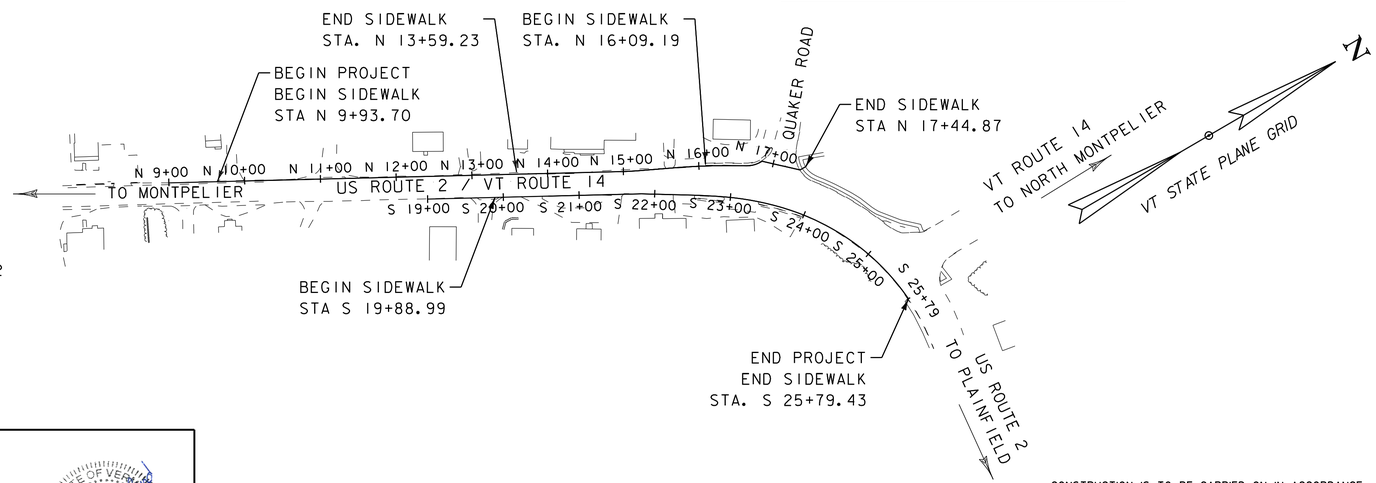
PROJECT DESCRIPTION: WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES PORTLAND CEMENT CONCRETE SIDEWALKS, VERTICAL GRANITE CURBING, PAVEMENT STRIPING, GRADING, SIGNING, DRAINAGE MODIFICATIONS, AND OTHER HIGHWAY RELATED ITEMS

LENGTH OF SIDEWALK : 1091.65 FEET (0.207 MI)

LENGTH OF PROJECT : 926.70 FEET (0.176 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

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 STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

FOR BIDDING PURPOSES ONLY

QUALITY ASSURANCE PROGRAM : LEVEL 3

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

DATUM GPS DERIVED
VERTICAL NAVD 88
HORIZONTAL NAV 83 (92)

DuBois & King inc.

STATE OF VERMONT BRIAN M. BRESLEND No. 79076 Civil LICENSED PROFESSIONAL ENGINEER

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 44

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 VALVE
	H	TREE HARDWOOD
	HCTRL	CONTROL HORIZONTAL
	HVCTRL	CONTROL HORIZ. & VERTICAL
	HYD	HYDRANT
	IP	IRON PIN
	IPIPE	IRON PIPE
	LI	LIGHT - STREET OR YARD
	MB	MAILBOX
	MH	MANHOLE (MH)
	MM	MILE MARKER
	PM	PARKING METER
	PMK	PROJECT MARKER
	POST	POST STONE/WOOD
	RRSIG	RAILROAD SIGNAL
	RRSL	RAILROAD SWITCH LEVER
	S	TREE SOFTWOOD
	SAT	SATELLITE DISH
	SHRUB	SHRUB
	SIGN	SIGN
	STUMP	STUMP
	TEL	TELEPHONE POLE
	TIE	TIE
	TSIGN	SIGN W/DOUBLE POST
	VCTRL	CONTROL VERTICAL
	WELL	WELL
	WSO	WATER SHUT OFF

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

PROPOSED GEOMETRY CODES

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

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: 12/12/2019
DRAWN BY: P. DAY
CHECKED BY: B. BRESLEND
SHEET 2 OF 44

GENERAL

1. 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.

2. 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.

3. 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". ANY ASH TREES ENCOUNTERED MUST BE DISPOSED OF IN ACCORDANCE WITH THE "REQUIREMENTS RELATED TO EMERALD ASH BORERS" NOTICE TO BIDDERS IN THE PROJECT SPECIAL PROVISIONS.

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

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

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

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

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

9. 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.

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

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

12. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = +/- 1/4 INCH (TOTAL THICKNESS, EXCLUDING LEVELING).

13. SUBBASE TOLERANCE = +/- 1 INCH (TOTAL THICKNESS).

14. THE CONTRACTOR SHALL PROVIDE A SITE-SPECIFIC EROSION PREVENTION AND SEDIMENT CONTROL PLAN IN ACCORDANCE WITH SECTION 653 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION. ESTIMATED QUANTITIES FOR EPSC WORK HAVE BEEN INCLUDED IN THE CONTRACT FOR BIDDING PURPOSES. IF THE CONTRACTOR'S EPSC PLAN REQUIRES ITEMS OF WORK THAT ARE NOT INCLUDED IN THE PLANS IT SHALL BE PAID FOR AS PART OF ITEM 653.03 "MAINTENANCE OF EPSC PLAN".

15. EXISTING CONCRETE SLABS ON US ROUTE 2 ARE ASSUMED TO BE 20'-0" WIDE AND 9" THICK.

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 THE ENGINEER.

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 MAINTENANCE 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.

7. WHEN WORKING IN THE VICINITY OF UTILITY POLES OR GUY WIRES, POLES WILL NEED TO BE SUPPORTED. THIS WORK SHALL BE COORDINATED WITH CONSOLIDATED COMMUNICATIONS. THE CONTACT SHALL BE: JOHN POMEROY (802-295-8187 OR 208-735-7029).

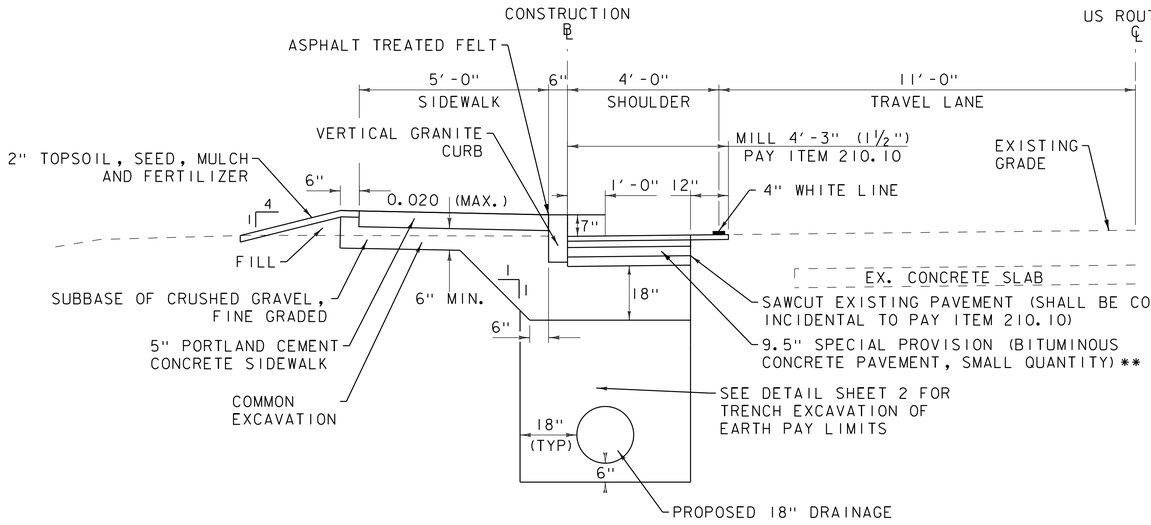
8. TOPOGRAPHICAL AND PLANIMETRIC DATE SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEY COMPLETED BY DUBOIS & KING, INC. IN JULY 2014 AND PARTIALLY BY OTHERS. SINCE THAT TIME THE FOLLOWING PROJECTS HAVE BEEN CONSTRUCTED: EAST MONTPELIER NH CULV(54) AND EAST MONTPELIER BRF 037-1(7). BASE MAPPING HAS BEEN UPDATED TO INCORPORATE THESE PROJECTS. CONTRACTOR SHALL VERIFY ALL EXISTING FEATURES PRIOR TO BIDDING ON PROJECT.

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.

PROJECT NUMBER: STP BIKE (63)

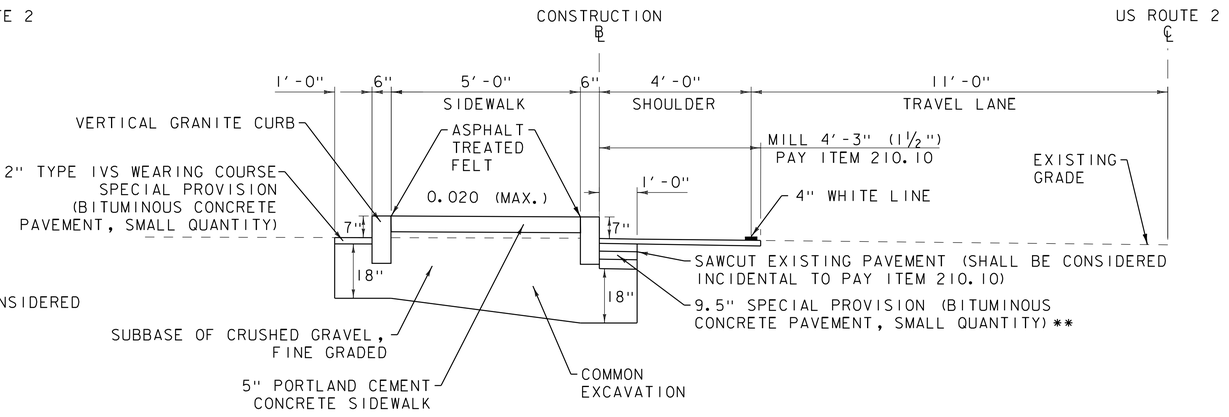
FILE NAME: 622472Fnotes.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: T. MATTHEWS
PROJECT NOTES SHEET

PLOT DATE: 12/12/2019
DRAWN BY: T. MATTHEWS
CHECKED BY: C. LATHROP
SHEET 3 OF 44



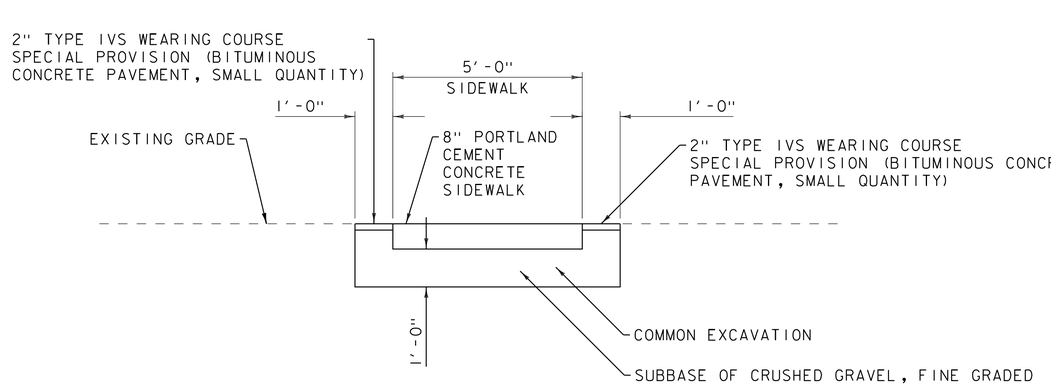
TYPICAL SIDEWALK SECTION WITH NEW CURB

STA. N 10+08 - STA. N 10+78
STA. N 11+46 - STA. N 12+76

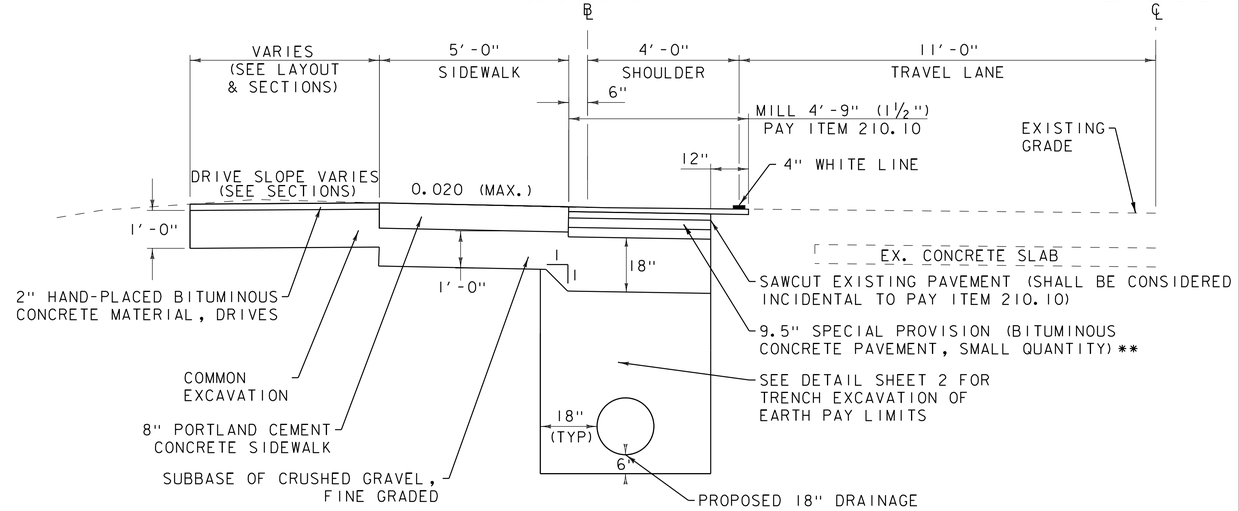


TYPICAL SIDEWALK SECTION WITH DOUBLE CURB

STA. N 16+09 - STA. N 16+17 (8")
STA. N 16+17 - STA. QR 30+14 (5")
STA. QR 30+14 - STA. QR 30+21 (8")



TYPICAL SIDEWALK SECTION - POST OFFICE



TYPICAL FLUSH SIDEWALK/DRIVEWAY SECTION

STA. N 9+94 - STA. N 10+08
STA. N 10+78 - STA. N 11+46
STA. N 12+76 - STA. N 13+59

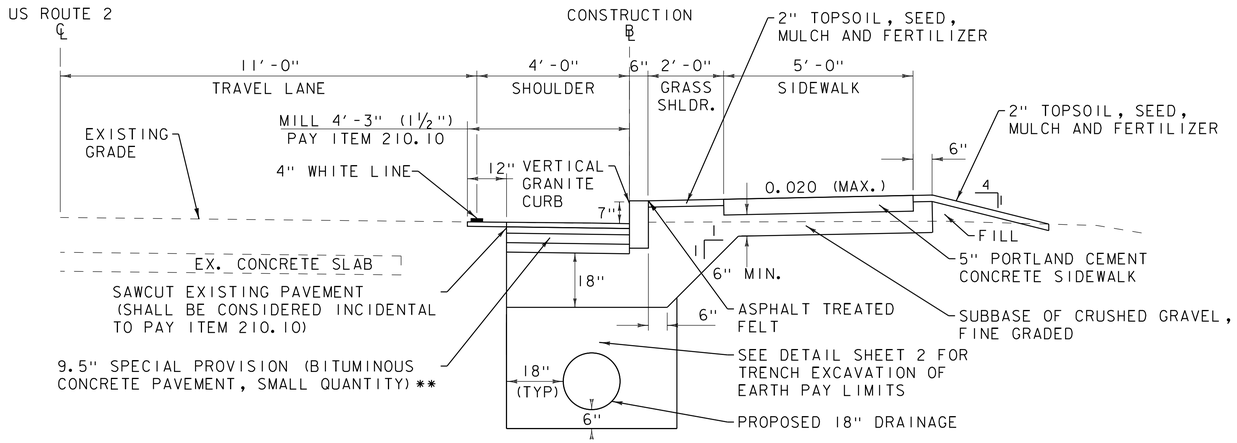
9.5" BITUMINOUS CONCRETE PAVEMENT**

1.5" TYPE IVS WEARING COURSE
2" TYPE IIIS INTERMEDIATE COURSE
3" TYPE IIS BASE COURSE
3" TYPE IIS BASE COURSE

NOT TO SCALE

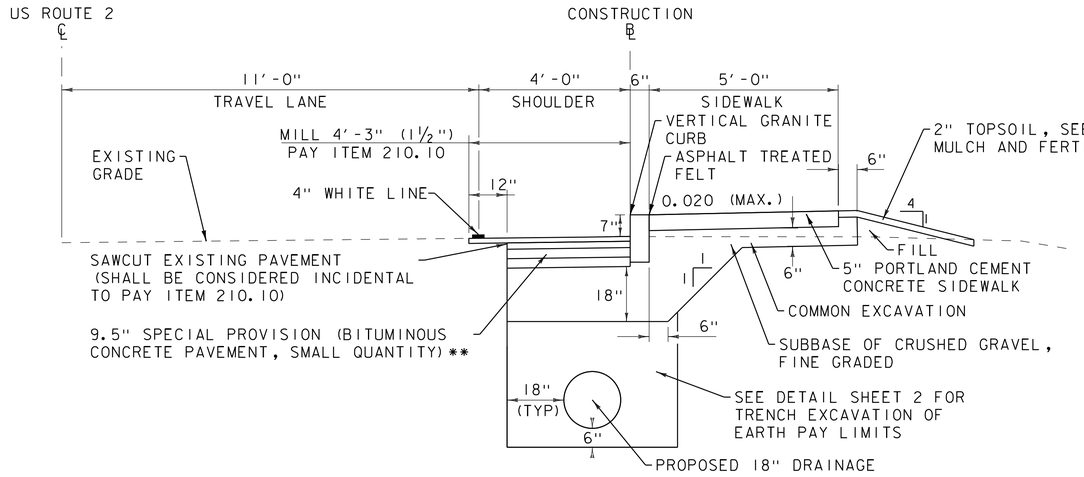
PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: ...\CADD FILES\622472Fityp.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: T. MATTHEWS
TYPICAL SECTION SHEET 1
PLOT DATE: 12/12/2019
DRAWN BY: T. MATTHEWS
CHECKED BY: B. BRESLEND
SHEET 4 OF 44



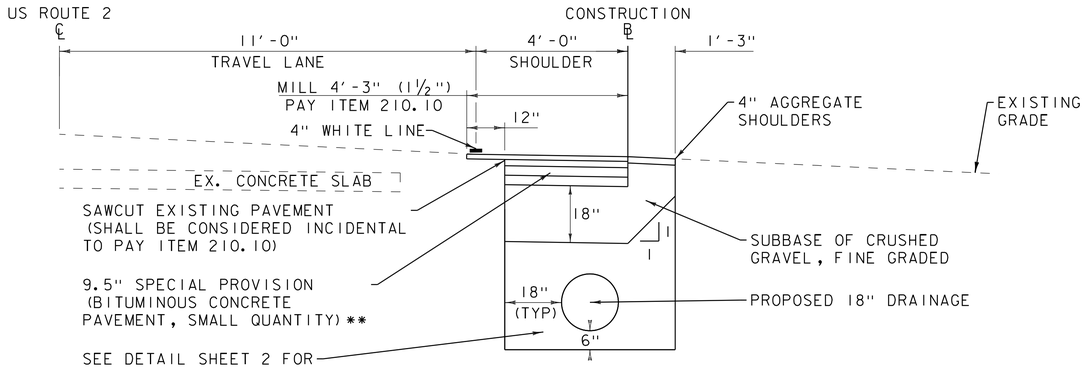
TYPICAL SIDEWALK SECTION WITH GRASS STRIP

STA. S 20+06 - STA. S 20+25



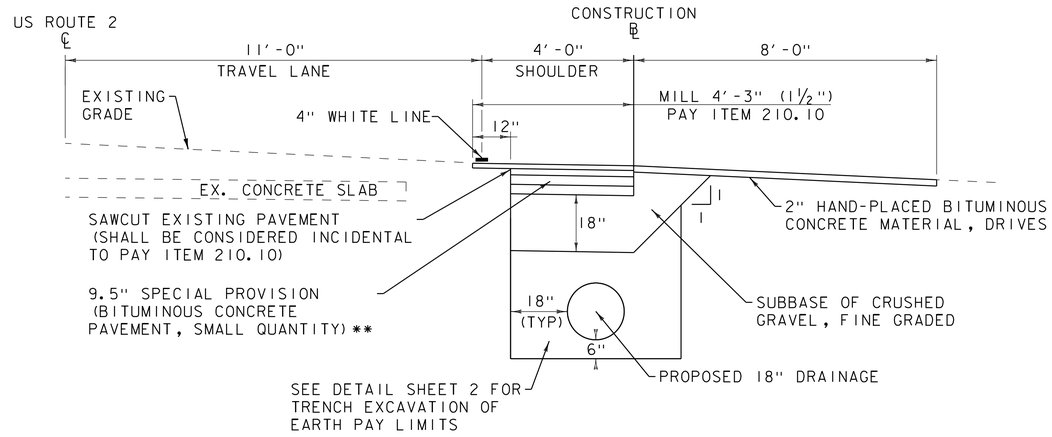
TYPICAL SIDEWALK SECTION WITH NEW CURB AND PIPE

STA. S 20+60 - STA. S 21+27



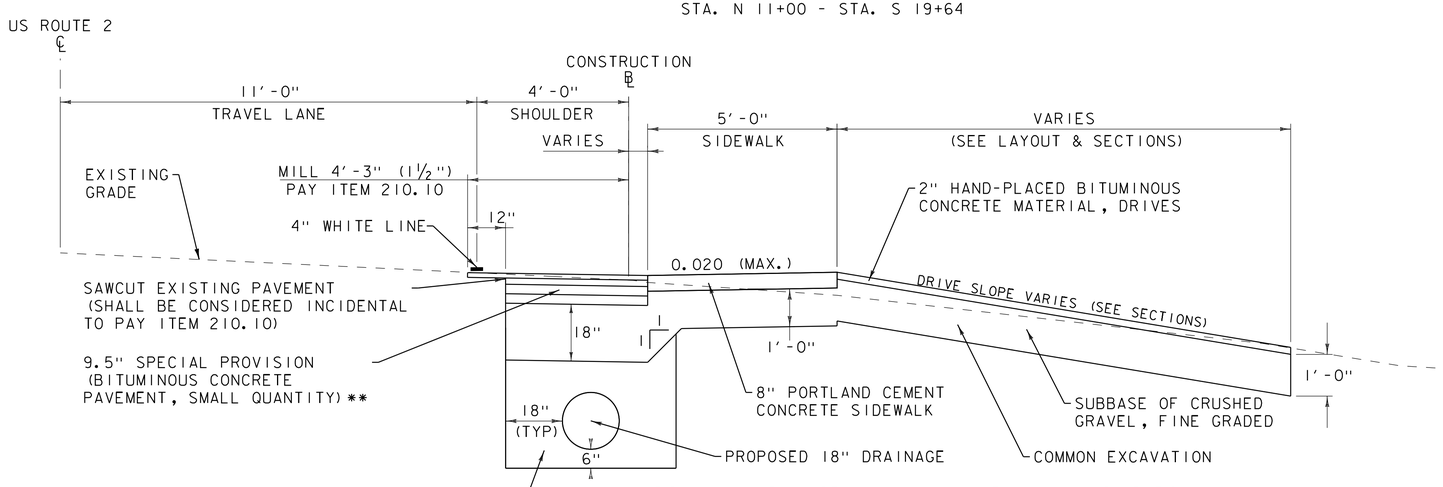
TYPICAL PIPE EXCAVATION

STA. N 11+00 - STA. S 19+64



TYPICAL PIPE EXCAVATION WITH DRIVEWAY SECTION

STA. S 19+64 - STA. S 19+89



TYPICAL FLUSH SIDEWALK DRIVEWAY SECTION

STA. S 19+89 - STA. S 20+06
STA. S 20+25 - STA. S 20+60
STA. S 21+27 - STA. S 21+63

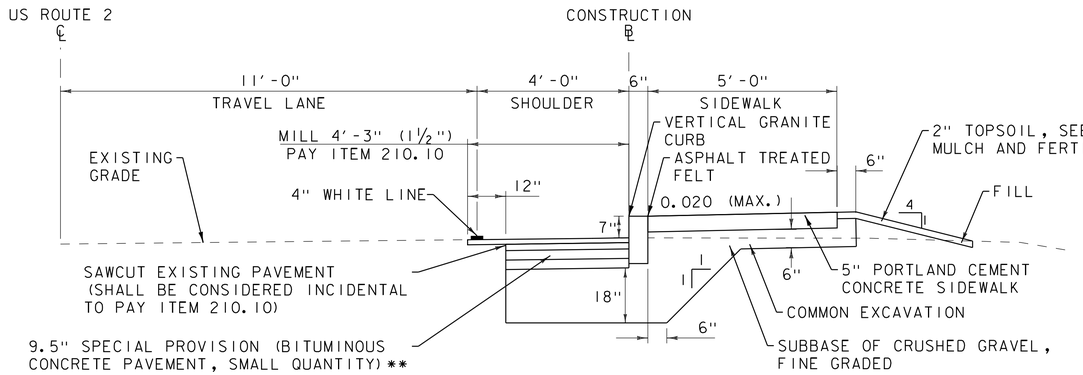
9.5" BITUMINOUS CONCRETE PAVEMENT**

1.5" TYPE IVS WEARING COURSE
2" TYPE IIIS INTERMEDIATE COURSE
3" TYPE IIS BASE COURSE
3" TYPE IIS BASE COURSE

NOT TO SCALE

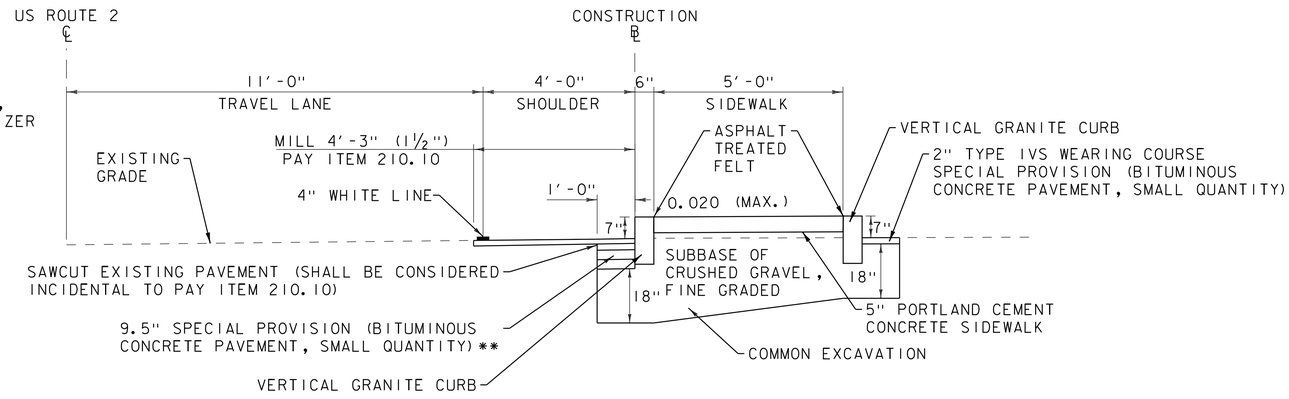
PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: ...\CADD FILES\622472Fltyp.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: T. MATTHEWS
TYPICAL SECTION SHEET 2
PLOT DATE: 12/12/2019
DRAWN BY: T. MATTHEWS
CHECKED BY: B. BRESLEND
SHEET 5 OF 44



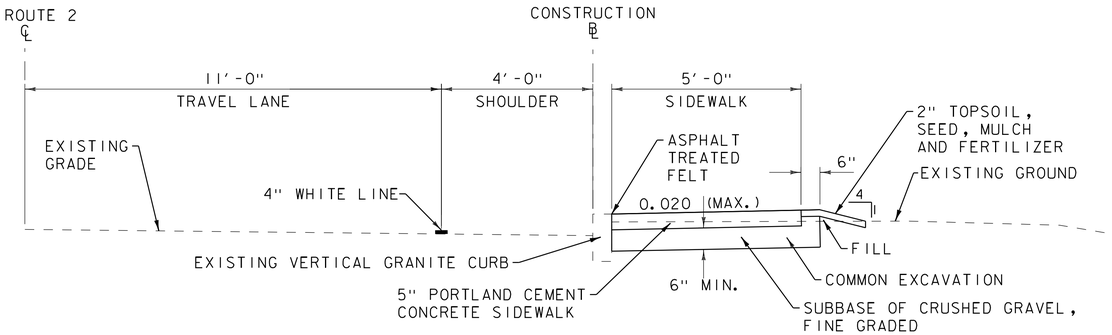
TYPICAL SIDEWALK SECTION WITH NEW CURB

STA. S 21+63 - STA. S 22+19
STA. N 17+29 - STA. N 17+41 (MIRRORED)



TYPICAL SIDEWALK SECTION WITH DOUBLE CURB

STA. S 22+57 - STA. S 22+88
STA. S 23+43 - STA. S 24+00

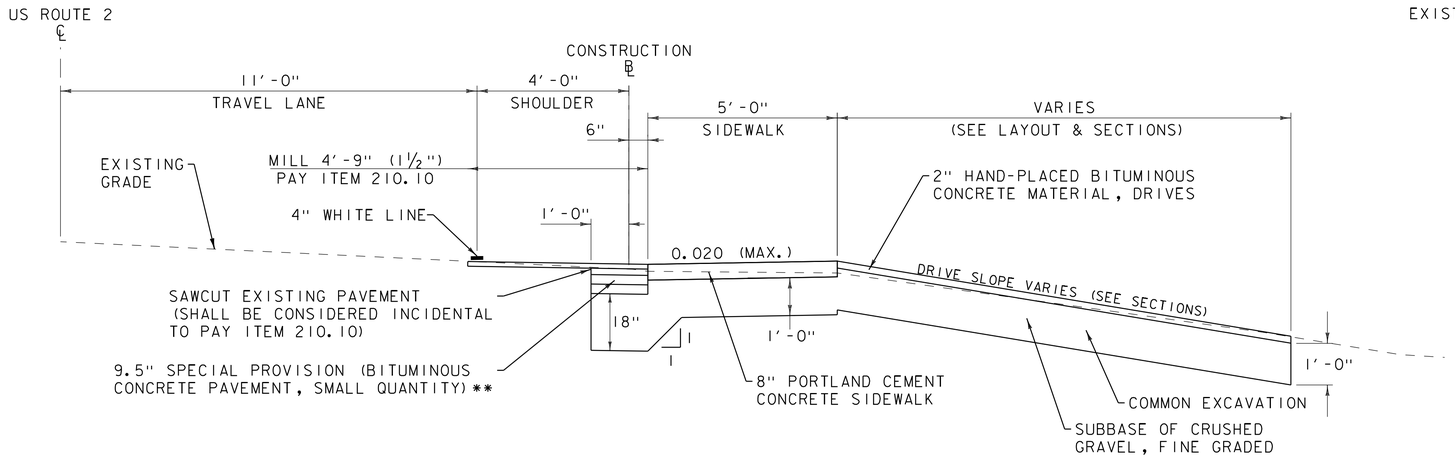


TYPICAL SIDEWALK SECTION WITH EXISTING CURB

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

9.5" BITUMINOUS CONCRETE PAVEMENT**

1.5" TYPE IVS WEARING COURSE
2" TYPE IIIS INTERMEDIATE COURSE
3" TYPE IIS BASE COURSE
3" TYPE IIS BASE COURSE

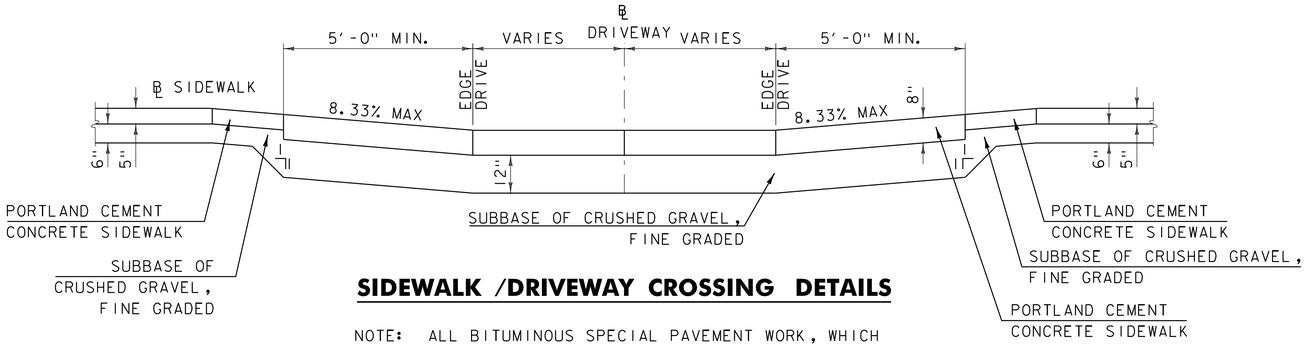


TYPICAL FLUSH SIDEWALK DRIVEWAY SECTION

STA. S 22+19 - STA. S 22+57
STA. S 22+88 - STA. S 23+43

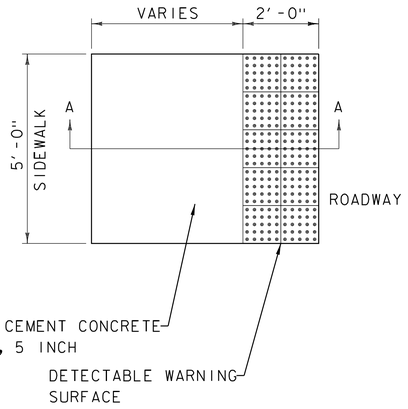
NOT TO SCALE

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.	
PROJECT NUMBER: STP BIKE (63)	
FILE NAME: ...\CADD FILES\622472Fityp.dgn	PLOT DATE: 12/12/2019
PROJECT LEADER: B. BRESLEND	DRAWN BY: T. MATTHEWS
DESIGNED BY: T. MATTHEWS	CHECKED BY: B. BRESLEND
TYPICAL SECTION SHEET 3	SHEET 6 OF 44



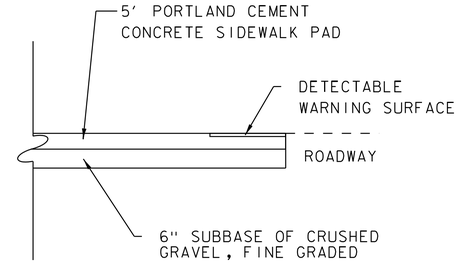
SIDEWALK /DRIVEWAY CROSSING DETAILS

NOTE: ALL BITUMINOUS SPECIAL 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 406.38 "HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES".



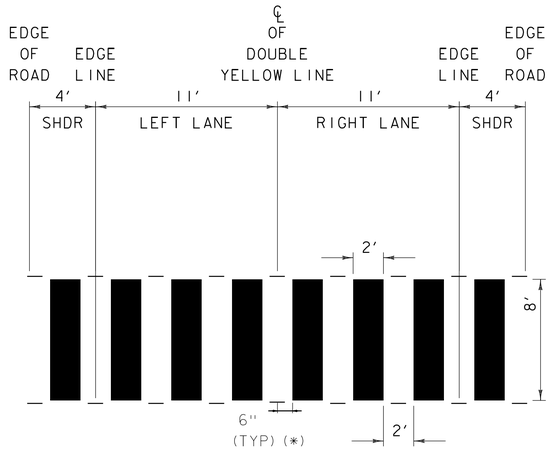
PORTLAND CEMENT CONCRETE SIDEWALK PAD DETAIL

NOT TO SCALE

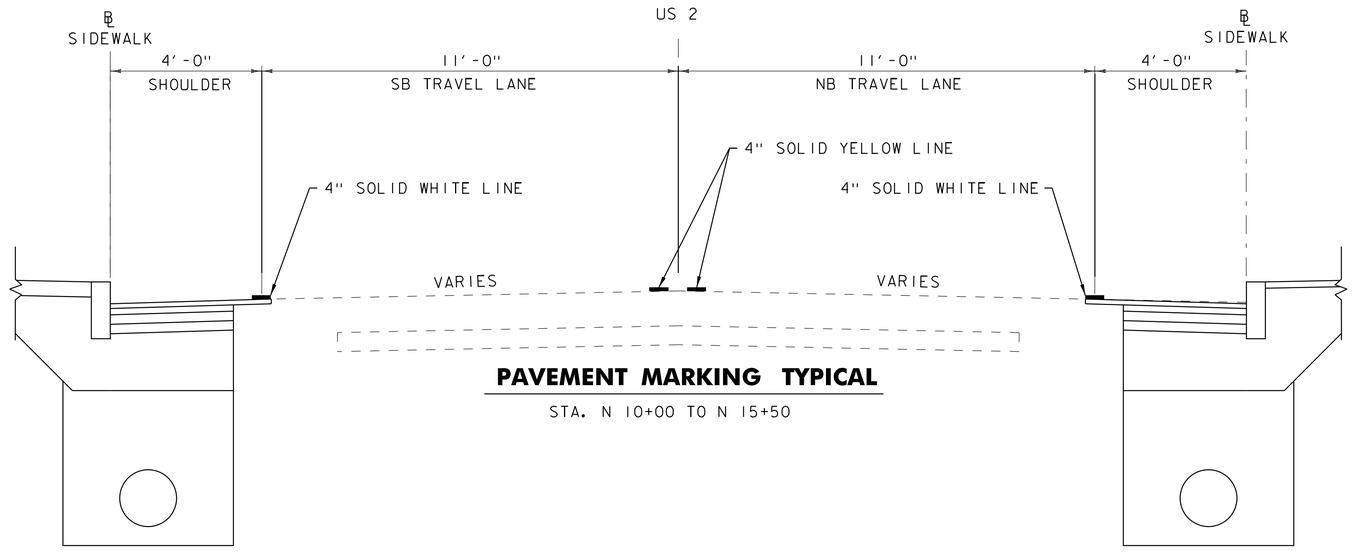


SECTION A–A PORTLAND CEMENT CONCRETE PAD

NOT TO SCALE



SKEWED CROSSWALK PATTERN DETAIL



PAVEMENT MARKING TYPICAL

STA. N 10+00 TO N 15+50

NOTES:

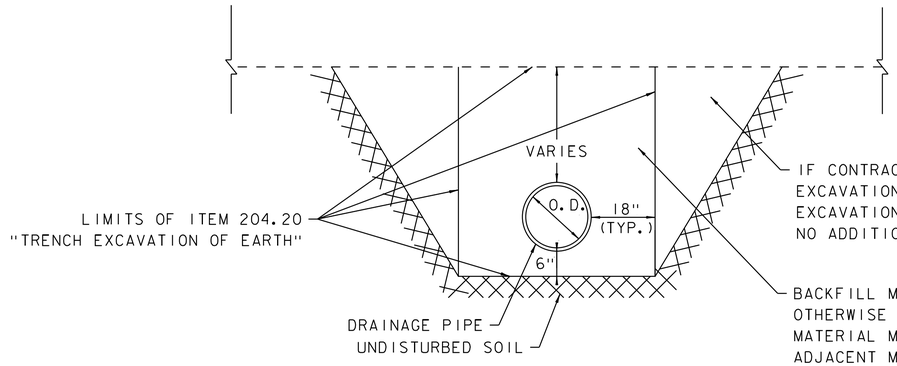
1. THIS DETAIL IS CONFIGURED FOR AN 11 FOOT LANE.
2. MARK LIGHT STRING LINE ON PAVEMENT ACROSS ROADWAY (CURB TO CURB).
3. ESTABLISH THE CENTER LINE OF THE ROADWAY (DOUBLE YELLOW LINE OR LANE LINE).
4. BLOCKS ARE PARALLEL TO THE CENTERLINE (DOUBLE YELLOW LINE OR LANE LINE).
5. ALWAYS START MEASURING FROM THE CENTERLINE OR LANE LINE RIGHT, WITH THE FLOW OF TRAFFIC.
6. PAINTED BLOCKS ARE 24 INCHES (TYPICAL).

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

NOT TO SCALE

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

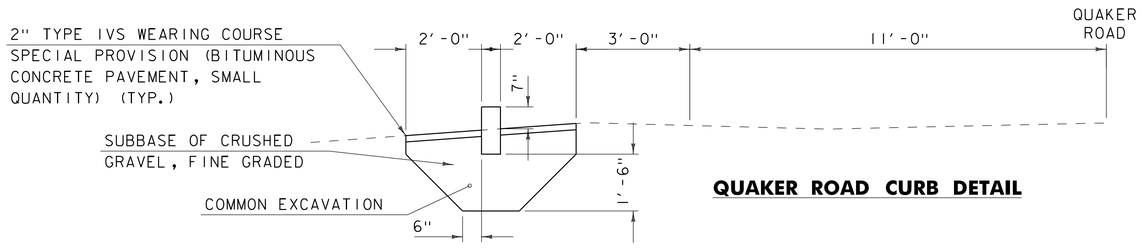
FILE NAME: ...\CADD FILES\622472Fldet.dgn PLOT DATE: 12/12/2019
PROJECT LEADER: B. BRESLEND DRAWN BY: G. CANTAVE
DESIGNED BY: P. DAY CHECKED BY: B. BRESLEND
DETAIL SHEET 1 SHEET 7 OF 44



TYPICAL TRENCH BOX DETAIL

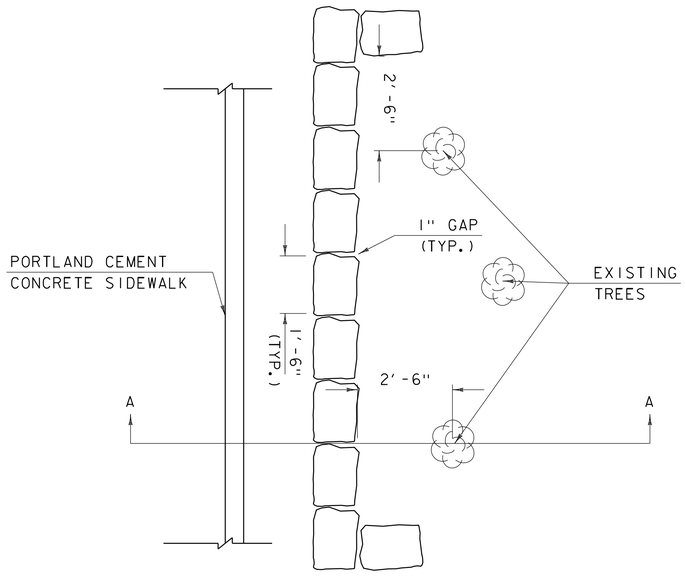
IF CONTRACTOR EXCAVATES BEYOND THE LIMITS OF TRENCH EXCAVATION, THE COSTS FOR THE EXTRA BACKFILL AND EXCAVATION SHALL BE COVERED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE MUNICIPALITY.

BACKFILL MATERIAL TO BE NATIVE MATERIAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER. UNACCEPTABLE MATERIAL MAY INCLUDE FOREIGN MATERIAL COMPARED TO ADJACENT MATERIALS, CLAYS, SILTS, OR CONTAMINATED SOILS. IF IT IS DETERMINED THAT GRANULAR BACKFILL FOR STRUCTURES IS REQUIRED, PAYMENT WILL BE MADE UNDER ITEM 204.30 "GRANULAR BACKFILL FOR STRUCTURES".

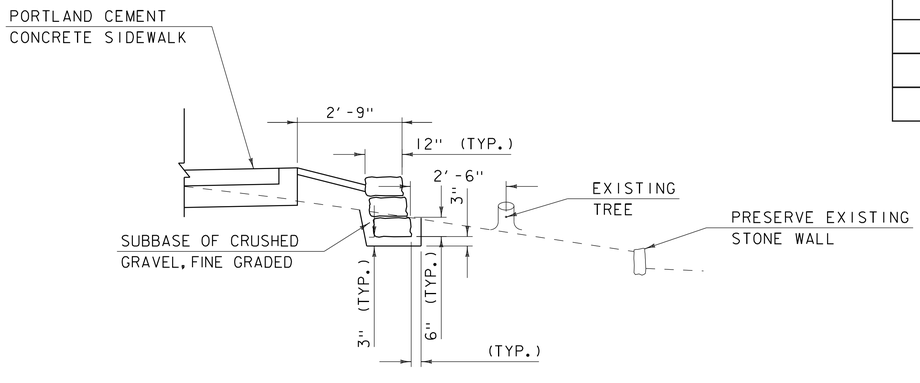


QUAKER ROAD CURB DETAIL

NOTE: FLARE CURB ON UPSTREAM AND DOWNSTREAM ENDS



TREE PLANTING WELL DETAIL



SECTION A-A

NOTES:

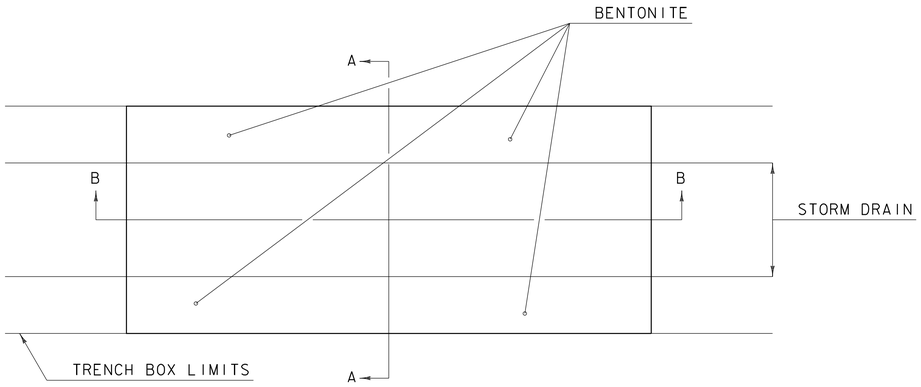
1. EACH SUCCESSIVE COURSE OF STONE SHALL BE STAGGERED.

HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES DETAIL

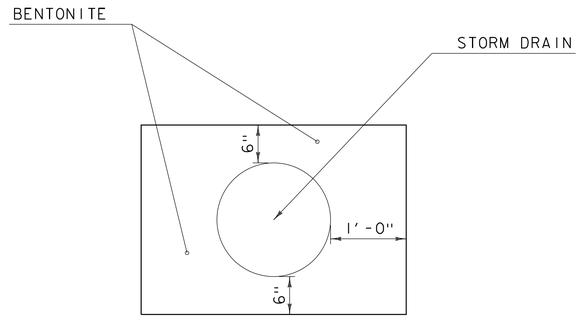
STATION		POSITION	TYPE	QUANTITY (SY)
N	10+82.	RT	PAVED	48
N	11+13.	LT	PAVED	46
N	12+92.	LT	GRAVEL	11
N	13+27.	LT	PAVED	19
N	13+53.	LT	PAVED	7
S	19+79.	RT	GRAVEL	29
S	20+38.	RT	PAVED	28
S	21+45.	RT	PAVED	33
S	22+39.	RT	GRAVEL	37
S	23+17.	RT	GRAVEL	59
		SUBTOTAL =		317
		ROUNDING =		3
		TOTAL =		320

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

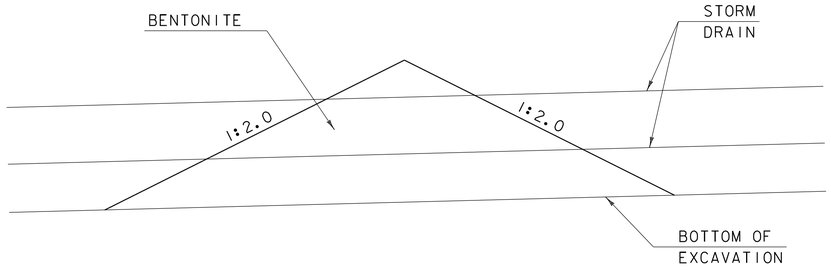
FILE NAME: ...\CADD FILES\622472Fldet.dgn PLOT DATE: 12/12/2019
PROJECT LEADER: B. BRESLEND DRAWN BY: P. DAY
DESIGNED BY: P. DAY CHECKED BY: B. BRESLEND
DETAIL SHEET 2 SHEET 8 OF 44



TRENCH DAM PLAN VIEW



SECTION A–A



SECTION B–B

NOTES:

1. BENTONITE TRENCH DAMS TO BE INSTALLED AROUND STORM DRAINS WHERE CONTAMINATION IS FOUND, AS DETERMINED BY THE ENGINEER, TO REDUCE PREFERENTIAL FLOW OF CONTAMINATED GROUND WATER ALONG PIPE BEDDING MATERIAL.

2. EXACT LOCATION, QUANTITY, SPACING, AND GEOMETRY SHALL BE AS SHOWN ON THE PLANS OR AS DETERMINED BY THE ENGINEER. PAYMENT FOR FURNISHING, INSTALLING, AND HANDLING THE BENTONITE, AND FOR ALL LABOR, TOOLS, EQUIPMENT, AND INCIDENTALS TO COMPLETE THE WORK SHALL BE CONSIDERED INCIDENTAL TO ITEMS 900.608 "SPECIAL PROVISION (EXCAVATION OF PETROLEUM CONTAMINATED SOILS, CLASS I)", 900.608 "SPECIAL PROVISION (EXCAVATION OF PETROLEUM CONTAMINATED SOILS, CLASS II)", AND 900.608 "SPECIAL PROVISION (EXCAVATION OF PETROLEUM CONTAMINATED SOILS, CLASS III)".

3. CONCRETE MAY BE SUBSTITUTED FOR BENTONITE AND WILL FOLLOW THE SAME GEOMETRY AS SHOWN IN THE DETAILS. IF THAT OPTION IS EXERCISED, POLYETHYLENE MATERIAL SHALL BE WRAPPED AROUND PIPING TO SEPARATE FROM CONCRETE. THE CONCRETE SHALL HAVE A MAXIMUM STRENGTH OF 125 PSI. CONCRETE, POLYETHYLENE, AND ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS ASSOCIATED WITH IT SHALL BE CONSIDERED INCIDENTAL TO ITEMS 900.608 "SPECIAL PROVISION (EXCAVATION OF PETROLEUM CONTAMINATED SOILS, CLASS I)", 900.608 "SPECIAL PROVISION (EXCAVATION OF PETROLEUM CONTAMINATED SOILS, CLASS II)", AND 900.608 "SPECIAL PROVISION (EXCAVATION OF PETROLEUM CONTAMINATED SOILS, CLASS III)".

NOT TO SCALE

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

FILE NAME: ...\CADD FILES\622472Fldet.dgn PLOT DATE: 12/12/2019
PROJECT LEADER: B. BRESLEND DRAWN BY: T. MATTHEWS
DESIGNED BY: B. BRESLAND CHECKED BY: --------
DETAIL SHEET 3 SHEET 9 OF 44

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)

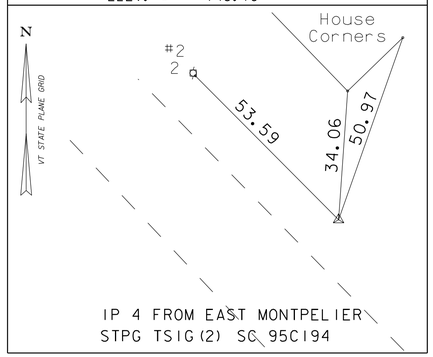
TO REACH FROM THE JUNCTION OF U.S.ROUTE 2 AND VERMONT ROUTE 14 SOUTH IN THE VILLAGE OF EAST MONTPELIER, PROCEED SOUTH ON ROUTE 14 FOR 1.2 MI (1.9 KM) TO A DIRT ROAD ON THE LEFT. TURN LEFT ONTO DIRT ROAD AND CONTINUE FOR 0.55 MI (0.89 KM) TO A T-INTERSECTION WITH THE ROAD, TURN LEFT AT INTERSECTION (COUNTRY 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

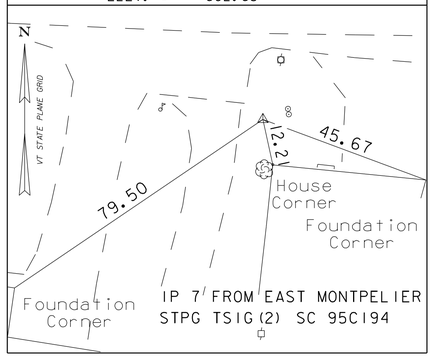
HVCTRL #1

NORTH =	645781.30
EAST =	1643715.26
ELEV. =	748.19



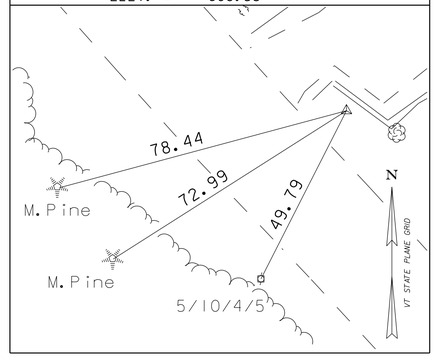
HVCTRL #2

NORTH =	645594.57
EAST =	1644302.82
ELEV. =	692.63



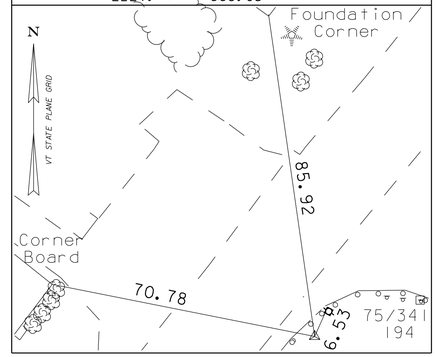
HVCTRL #3

NORTH =	643975.41
EAST =	1643715.26
ELEV. =	698.53



HVCTRL #4

NORTH =	644461.55
EAST =	1643281.52
ELEV. =	668.05



HVCTRL #5

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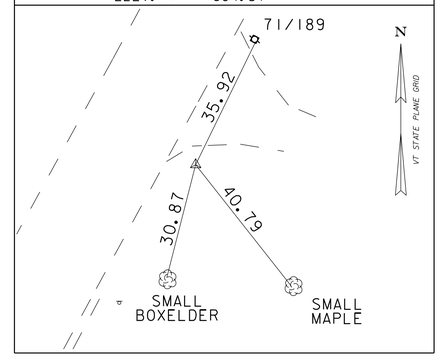
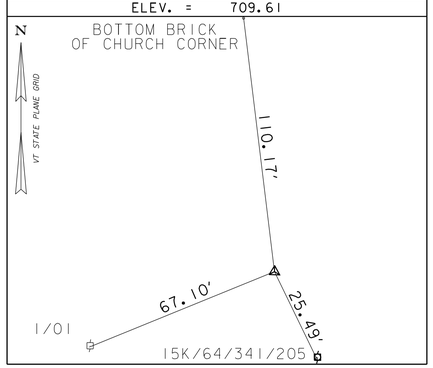
EAST =	1643533.15
ELEV. =	694.51



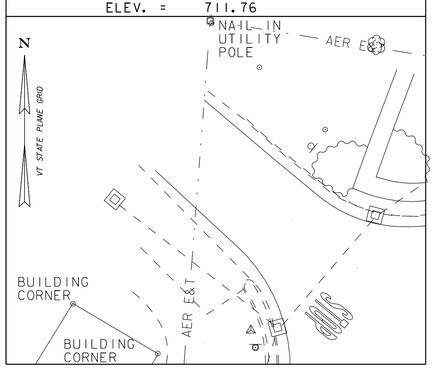
HVCTRL #6

NORTH =	645646.68
EAST =	1643944.50
ELEV. =	709.61



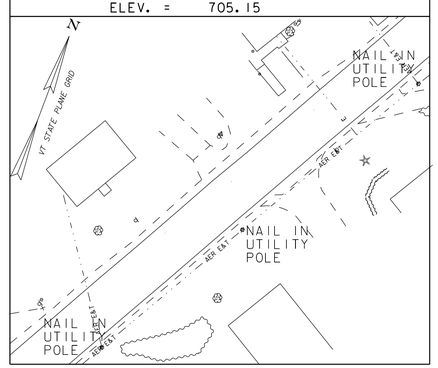
HVCTRL #51

NORTH =	645568.86
EAST =	1643862.54
ELEV. =	711.76



HVCTRL #50

NORTH =	645232.55
EAST =	1643684.33
ELEV. =	705.15



HVCTRL #5

NORTH =	644858.46
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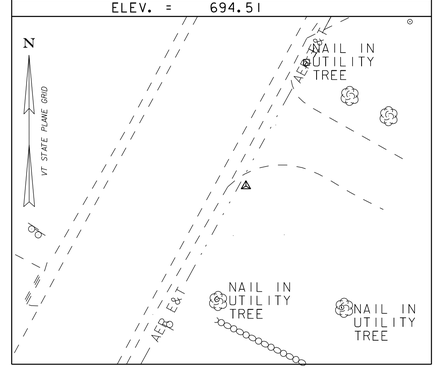
ELEV. =	694.51



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: 12/12/2019
DRAWN BY: G. STOCKMAN
CHECKED BY: J. FLYNN
SHEET 10 OF 44

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
Quaker Road										
Tangent	POB	QR 30+00.00	645581.4702	1643888.47						
	POE	QR 30+75.00	645630.3546	1643831.59						

CULVERT PROJECT
EAST MONTPELIER NH CULV(54) ALIGNMENTS

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						

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						

DETAILS ARE NOT TO SCALE

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

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

PLOT DATE: 12/12/2019
DRAWN BY: P. DAY
CHECKED BY: C. LATHROP
SHEET 11 OF 44

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES

ROADWAY	ROADWAY (NO FEDERAL PARTICIPATIO	EROSION CONTROL	FULL C. E. ITEMS
1			
350			
240			
950			
10			
1			
825			
600			
420			
10			
6			
320			
760			
3			
4			
2			
10			
10			
850			
490			
410			
220			
40			
1			
	8		
200			
1200			
			1
			1
2			
1			
1			
4			
1550			
1350			
100			
20			
15			
60			
1550			

TOTALS

GRAND TOTAL	FINAL
1	
350	
240	
950	
10	
1	
825	
600	
420	
10	
6	
320	
760	
3	
4	
2	
10	
10	
850	
490	
410	
220	
40	
1	
8	
200	
1200	
1	
1	
2	
1	
1	
4	
1550	
1350	
100	
20	
15	
60	
1550	

DESCRIPTIONS

UNIT	ITEMS	ITEM NUMBER	ROUND
LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10	-
CY	COMMON EXCAVATION	203.15	9
CY	SOLID ROCK EXCAVATION	203.16	EST.
CY	TRENCH EXCAVATION OF EARTH	204.20	8
CY	TRENCH EXCAVATION OF ROCK	204.21	-
CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-
CY	GRANULAR BACKFILL FOR STRUCTURES	204.30	8
SY	COARSE-MILLING, BITUMINOUS PAVEMENT	210.10	51
CY	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.26	7
TON	AGGREGATE SHOULDERS, RAP	402.13	4.8
CWT	EMULSIFIED ASPHALT	404.65	0.7
SY	HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES	406.38	3
LF	18" CPEP(SL)	601.2615	2
EACH	PRECAST REINFORCED CONCRETE DROP INLET WITH CAST IRON GRATE	604.18	-
EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE	604.20	-
EACH	CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES	604.40	-
MGAL	DUST CONTROL WITH WATER	609.10	EST.
CY	STONE FILL, TYPE I	613.10	EST.
LF	VERTICAL GRANITE CURB	616.21	5
LF	REMOVAL OF EXISTING CURB	616.41	2
SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.10	7
SY	PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH	618.11	6
SF	DETECTABLE WARNING SURFACE	618.30	-
EACH	YIELDING MARKER POSTS	619.17	-
EACH	ADJUST ELEVATION OF VALVE BOX	629.20	-
HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.
HR	FLAGGERS	630.15	EST.
LS	TESTING EQUIPMENT, CONCRETE	631.16	-
LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-
EACH	CPM SCHEDULE	633.10	-
LS	MOBILIZATION/DEMOBILIZATION	635.11	-
LS	TRAFFIC CONTROL, ALL-INCLUSIVE	641.11	-
EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-
LF	DURABLE 4 INCH WHITE LINE, THERMOPLASTIC	646.402	20
LF	DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC	646.412	14
LF	DURABLE 8 INCH YELLOW LINE, THERMOPLASTIC	646.452	4
LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482	3
EACH	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	-
LF	DURABLE CROSSWALK MARKING, THERMOPLASTIC	646.502	10
LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.602	20

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		EARTHWORKS SUMMARY
		FILL REQUIRED
35	CY	SUBTOTAL EARTHWORKS (30 CY X 1.15)
		FILL AVAILABLE
239	CY	COMMON EXCAVATION (341 CY X 0.7)
239	CY	TOTAL MATERIAL AVAILABLE FOR FILL
204	CY	WASTE

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

FILE NAME: ...\CADD FILES\622472Flqty.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: T. MATTHEWS
QUANTITY SHEET 1

PLOT DATE: 12/12/2019
DRAWN BY: T. MATTHEWS
CHECKED BY: C. LATHROP
SHEET 12 OF 44

QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES

ROADWAY	ROADWAY (NO FEDERAL PARTICIPATIO	EROSION CONTROL	FULL C. E. ITEMS
1350			
300			
		130	
		250	
		3	
		140	
		1	
		50	
		1	
		1	
		40	
		9	
		30	
		420	
		550	
1			
15			
180			
21			
17			
15			
	10		
	10		
	10		
1			
1			
1			
1			
270			

TOTALS

GRAND TOTAL	FINAL
1350	
300	
130	
250	
3	
140	
1	
50	
1	
1	
40	
9	
30	
420	
550	
1	
15	
180	
21	
17	
15	
10	
10	
10	
1	
1	
1	
1	
270	

DESCRIPTIONS

UNIT	ITEMS	ITEM NUMBER	ROUND
LF	TEMPORARY 4 INCH YELLOW LINE, PAINT	646.612	14
SF	REMOVAL OF EXISTING PAVEMENT MARKINGS	646.85	13
LB	SEED	651.15	5
LB	FERTILIZER	651.18	1
TON	AGRICULTURAL LIMESTONE	651.20	0.8
CY	TOPSOIL	651.35	6
LS	EPSC PLAN	653.01	-
HR	MONITORING EPSC PLAN	653.02	EST.
LU	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	653.03	-
TON	HAY MULCH	653.10	-
CY	STABILIZED CONSTRUCTION ENTRANCE	653.35	4
EACH	INLET PROTECTION DEVICE, TYPE II	653.41	-
CY	INLET PROTECTION DEVICE, TYPE III	653.42	8
LF	SILT FENCE, TYPE I	653.475	2
LF	BARRIER FENCE	653.50	18
LS	TREE PROTECTION	656.85	-
SF	TRAFFIC SIGN, TYPE A	675.20	4.75
LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	-
EACH	REMOVING SIGNS	675.50	-
EACH	RESETTING SIGNS	675.60	-
LF	WIRED CONDUIT	678.23	3
CY	SPECIAL PROVISION (EXCAVATION OF PETROLEUM CONTAMINATED SOILS, CLASS I)	900.608	EST.
CY	SPECIAL PROVISION (EXCAVATION OF PETROLEUM CONTAMINATED SOILS, CLASS II)	900.608	EST.
CY	SPECIAL PROVISION (EXCAVATION OF PETROLEUM CONTAMINATED SOILS, CLASS III)	900.608	EST.
EACH	SPECIAL PROVISION (REMOVE AND RESET PEDESTRIAN SIGNAL)	900.620	-
EACH	SPECIAL PROVISION (TREE PLANTING WELL)	900.620	-
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	-
TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)	900.680	5

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)
60	TON	WEARING COURSE TYPE IVS
55	TON	INTERMEDIATE COURSE TYPE IIIS
150	TON	BASE COURSE TYPE IIS
5	TON	ROUNDING
270	TON	TOTAL

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

FILE NAME: ...\CADD FILES\622472Flqty.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: T. MATTHEWS
QUANTITY SHEET 2

PLOT DATE: 12/12/2019
DRAWN BY: T. MATTHEWS
CHECKED BY: C. LATHROP
SHEET 13 OF 44

5 OF 6

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.,	5 OF 6	N 13+01.22 LT	N 13+64.23 LT			CONSTRUCTION	(T)	1212.55				DELINEATE WITH BARRIER OR
	TRUSTEE OF THE GLORIA A. BIRON												GEOTEXTILE FENCE
	LIVING TRUST		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: 12/12/2019
PROJECT LEADER: B. BRESLEND DRAWN BY: O. DALMER
DESIGNED BY: B. BRESLEND CHECKED BY: S. SOLLA
RIGHT OF WAY DETAIL SHEET 1 SHEET 14 OF 44

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+93.69 RT			CONSTRUCTION	(T)	422.90				DELINEATE WITH BARRIER OR GEOTEXTILE FENCE
			S 22+92.58 RT	S 23+39.51 RT			DRIVE	(T)	481.32				RECONSTRUCT DRIVE
			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: 12/12/2019
PROJECT LEADER: B. BRESLEND DRAWN BY: O. DALMER
DESIGNED BY: B. BRESLEND CHECKED BY: S. SOLLA
RIGHT OF WAY DETAIL SHEET 2 SHEET 15 OF 44

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 PLOT DATE: 12/12/2019
PROJECT LEADER: B. BRESLEND DRAWN BY: O. DALMER
DESIGNED BY: B. BRESLEND CHECKED BY: S. SOLLA
RIGHT OF WAY DETAIL SHEET 3 SHEET 16 OF 44


BEGIN SIDEWALK
STA. N 9+29.60 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)
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)
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)
APPROXIMATE EXISTING ROW
SIGN (P)
CONST. (T)
DRIVE (T)
GRAVEL
PAVED
5
BIRON, GLORIA A.,
TRUSTEE OF THE
GLORIA A. BIRON LIVING TRUST
D & C (T)
INSTALL
WALKWAY (T)
POST
OFFICE
MB
CONST. (T)
DRIVE
(T)
SIGN
(P)
DRIVE
(T)
N/F
BIRON, JEFFREY R.
STORE
GAS
PUMPS
PAVED
VT STATE PLANE GRID
N
N 9+00
TO
MONTPELIER
N 10+00
TREES TO BE REMOVED
N 11+00
TO BE REMOVED BY OTHERS
TO BE INSTALLED BY OTHERS
US ROUTE 2
AHEAD
SIGNAL
N 12+00
N 13+00
N 14+00
TO BE
INSTALLED
BY OTHERS
REMOVE (T)
INSTALL (T)
REMOVE (T)
MATCHLINE STA. N 15+00
SEE NEXT SHEET
AER E&T
4" AC
GRAVEL
FLAG
HOUSE
GRAVEL
4" HDPE
POST
S 19+00
APPROXIMATE EXISTING ROW
BEGIN SIDEWALK
STA. S 19+88.99 RT
GARDEN
HOUSE
S 20+00
S 21+00
ADJUST (T)
SR (T)
REMOVE
(T)
CONST. (T)
DRIVE (T)
DRIVE
(T)
SAVE
PLANTING
PLANTING
DRIVE
(T)
TO BE REMOVED
BY OTHERS
SAVE
TREES
SR (T)
PAVED
DRIVE (T)
SR (T)
SIGN (P)
CONST. (T)
MATCHLINE STA. S 21+69
SEE NEXT SHEET
N/F
TOWN OF
EAST MONTPELIER
N/F
TOWN OF
EAST MONTPELIER
N/F
ROWELL, RICHARD
& NANCY
6
ROWELL, RICHARD
& NANCY
D & C (T)
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
0 20 40
SCALE IN FEET

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

FILE NAME: 622472Flbdr-row.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: B. BRESLEND
RIGHT OF WAY PLAN SHEET 1

PLOT DATE: 12/12/2019
DRAWN BY: O. DALMER
CHECKED BY: C. LATHROP
SHEET 5 OF 44


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
8" PVC
APPROX. EXIST. ROW
END SIDEWALK
STA. N 17+46.09 RT
AER E&T
QR 30+75
QUAKER RD
STOP
3" GALV.
US ROUTE 2
S 25+00
END SIDEWALK
STA. S 25+79.43 RT
TO BE INSTALLED
BY OTHERS
STA. QR 30+00.00=
STA. N 17+12.09
N 17+00
4" AC
APPROXIMATE EXISTING ROW
9
BIRON, GLORIA A.,
TRUSTEE OF THE
GLORIA A. BIRON
LIVING TRUST
END R.O.W.
PROJECT (PHASE 2)
STA. S 24+75.00 RT
N/F
HEMINGWAY,
MILTON B.
GRAVEL
TO BE REMOVED
BY OTHERS
GRAVEL
P
L
N/F
HASLAND, LLC
GARAGE
CONST. (T)
D & C (T)
N/F
VT AGENCY OF
TRANSPORTATION
APPROXIMATE EXISTING ROW
STA. S 23+24.80
OFFSET 6.50 RT
SIDEWALK (P)
L= 69.64'
N/F
BIRON,
JEFFREY R.
GARAGE
DRIVE (T)
STA. S 22+92.58
OFFSET 6.50 RT
STA. S 22+92.58
OFFSET 7.00 RT
GRAVEL
N/F
BIRON, JEFFREY R.
CONST. (T)
STA. S 22+54.68
OFFSET 6.03 RT
TO BE REMOVED
BY OTHERS
ADJUST
(T)
STA. S 22+54.77
OFFSET 7.00 RT
TO BE INSTALLED
BY OTHERS
SIGN
TO BE
REMOVED
CONST. (T)
STA. S 22+51.68
OFFSET 6.50 RT
HOUSE
STA. S 22+51.68
OFFSET 7.00 RT
SIDEWALK (P)
L= 9.18'
SAVE
TREES (4)
STA. S 22+46.03
OFFSET 6.50 RT
SR (T)
CONST. (T)
DRIVE (T)
MATCHLINE STA. N 15+00
SEE PREVIOUS SHEET
MATCHLINE STA. S 21+69
SEE PREVIOUS SHEET
D & C (T)
8
MOREY,
ROBERT W.
& GROVER-MOREY,
DEBRA
0 20 40
SCALE IN FEET

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

FILE NAME: 622472F1bdr-row.dgn	PLOT DATE: 12/12/2019
PROJECT LEADER: B. BRESLEND	DRAWN BY: O. DALMER
DESIGNED BY: B. BRESLEND	CHECKED BY: C. LATHROP
RIGHT OF WAY PLAN SHEET 2	SHEET 6 OF 44

1 — 3'-0" X 2'-6" CONC. BOX
53' LENGTH
INV. IN = 692.54
INV. OUT = 692.04

2 — 15" HDPE
S = 0.0443
INV. 697.46
INV. 696.13

PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH
STA. N 9+94 - STA. N 10+08 LT
STA. N 10+78 - STA. N 11+46 LT
STA. N 12+76 - STA. N 13+59 LT
STA. N 13+42 - STA. N 13+47 LT (POST OFFICE)
STA. S 19+89 - STA. S 20+11 RT
STA. S 20+25 - STA. S 20+60 RT
STA. S 21+27 - STA. S 21+63 RT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
STA. N 10+08 - STA. N 10+78 LT
STA. N 11+40 - STA. N 12+76 LT
STA. S 20+11 - STA. S 20+25 RT
STA. S 20+60 - STA. S 21+27 RT
STA. S 21+63 - STA. S 21+69 RT

DETECTABLE WARNING SURFACE
STA. N 13+45 LT (10 SF)
STA. S 20+04 RT (10 SF)

VERTICAL GRANITE CURB
STA. N 10+01 - STA. N 10+84 LT
STA. N 11+40 - STA. N 12+82 LT
STA. S 20+06 - STA. S 20+30 RT
STA. S 20+55 - STA. S 21+33 RT
STA. S 21+57 - STA. S 21+69 RT

REMOVAL OF EXISTING CURB
STA. S 21+60 - STA. S 21+69 RT

ADJUST ELEVATION OF VALVE BOX
STA. S 20+29 RT
STA. S 21+18 RT

YIELDING MARKER POSTS
STA. N 10+92 LT

AGGREGATE SHOULDERS
STA. N 11+00 - S 19+59 RT

TREE PROTECTION
STA. S 21+08 RT
STA. S 21+26 RT
STA. S 21+38 RT

SPECIAL PROVISION (TREE PLANTING WELL)
STA. S 20+78 - STA. S 21+17 RT

1 — STA. N 10+05.00 RT 1.00'
INSTALL PRECAST REINFORCED CONCRETE DROP INLET WITH CAST IRON GRATE (TYPE D)
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 = 694.08

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 D)
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 IN = 698.44
INV OUT = 695.41

6 — STA. N 13+04.00 RT 1.00'
INSTALL PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (TYPE D)
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 D)
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 COVER
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 D)
RIM = 705.54

NOTE:

1. 4" AC PIPE HAS BEEN ABANDONED AND REPLACED WITH A 4" HDPE PIPE IN THE SAME VICINITY, FROM APPROX. STA N 10+00 TO N 15+00

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 D)
RIM = 708.96

SIDEWALK DRIVE ENTRANCE DETAIL

STATION	POS	STD	TYPE	NOTE
N 10+05	LT	C-3A	1	NO DET. WARNING SURFACE
N 10+81	LT	C-3A	1	NO DET. WARNING SURFACE
N 11+43	LT	C-3A	1	NO DET. WARNING SURFACE
N 12+79	LT	C-2A	2	NO DET. WARNING SURFACE
S 20+09	RT	C-2B	7	NO DET. WARNING SURFACE
S 20+58	RT	C-2A	2	NO DET. WARNING SURFACE
S 21+30	RT	C-2A	2	NO DET. WARNING SURFACE
S 21+60	RT	C-2A	2	NO DET. WARNING SURFACE

0 20 40
SCALE IN FEET

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

FILE NAME: 622472Flbdr.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: T. MATTHEWS
PROJECT LAYOUT SHEET 1

PLOT DATE: 12/12/2019
DRAWN BY: T. MATTHEWS
CHECKED BY: B. BRESLEND

CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES
STA. N 16+45 RT
STA. N 16+90 RT

VERTICAL GRANITE CURB
STA. N 16+09 - STA. N 16+95 DOUBLE LT
STA. N 17+31 LT - STA. N 17+37 RT
STA. QR 30+44 - STA. QR 30+63 LT
STA. S 21+69 - STA. S 22+25 RT
STA. S 22+52 - STA. S 22+93 DOUBLE RT
STA. S 23+38 - STA. S 24+00 DOUBLE RT

REMOVAL OF EXISTING CURB
STA. N 16+08 - QR 30+21 LT
STA. N 16+08 - QR 30+21 LT
STA. N 17+31 LT - STA. N 17+37 RT
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

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
STA. N 16+17 RT - STA. QR 30+14 LT
STA. N 17+36 - STA. N 17+45 LT&RT
STA. S 21+69 - STA. S 22+19 RT
STA. S 22+57 - STA. S 22+88 RT
STA. S 23+43 - STA. S 25+79 RT

PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH
STA. N 16+09 - STA. N 16+17 RT
STA. QR 30+14 - STA. QR 30+21 RT
STA. S 22+19 RT - STA. S 22+57 RT
STA. S 22+88 RT - STA. S 23+43 RT

DETECTABLE WARNING SURFACE
STA. N 16+85 LT (10 SF)
STA. N 17+37 LT & RT (10 SF)

ADJUST ELEVATION OF VALVE BOX
STA. N 16+22 LT
STA. S 22+11 RT
STA. S 22+88 RT
STA. S 24+03 RT
STA. S 24+03 RT
STA. S 24+05 RT

TREE PROTECTION
STA. S 21+97 RT
STA. S 22+03 RT
STA. S 22+04 RT
STA. S 22+12 RT

SPECIAL PROVISION (REMOVE AND RESET PEDESTRIAN SIGNAL
STA. S 25+78 RT (8FT)

END SIDEWALK
STA. N 17+44.87

MAINTAIN FULL HEIGHT CURB REVEAL THROUGH THIS AREA

BEGIN SIDEWALK
STA. N 16+09

REMOVE PAVEMENT AND REPLACE WITH 2" TOPSOIL, SEED, MULCH AND FERTILIZER

SIDEWALK RAMP (SEE STD C-3B) (TYP)

SEE NOTE 1

MATCH EXISTING GRADE OF PATHWAY ACROSS NEAR AND FAR EDGE

TREE PROTECTION (4)

END PROJECT
END 5' CONCRETE SIDEWALK
TIE INTO EXISTING RAMP
STA. S 25+79.43

STA. QR 30+00.00=
STA. N 17+12.09

MATCHLINE STA. N 15+00 SEE PREVIOUS SHEET

MATCHLINE STA. S 21+69 SEE PREVIOUS SHEET

NOTE:
1. 4" AC PIPE HAS BEEN ABANDONED AND REPLACED WITH A 4" HDPE PIPE IN THE SAME VICINITY, FROM APPROX. STA N 15+00 TO N 24+00

SIDEWALK DRIVE ENTRANCE DETAIL				
STATION	POS	STD	TYPE	NOTE
N 16+14	LT	C-3A	1	NO DET. WARNING SURFACE
N 16+79	LT	C-2A	1	NO DET. WARNING SURFACE
N 16+86	LT	C-2A	1	NO DET. WARNING SURFACE
N 16+91	LT	C-2A	1	NO DET. WARNING SURFACE
N 17+43	LT	C-2A	1	NO DET. WARNING SURFACE
N 17+43	RT	C-2A	1	NO DET. WARNING SURFACE
S 22+22	RT	C-2A	1	NO DET. WARNING SURFACE
S 22+54	RT	C-2A	1	NO DET. WARNING SURFACE
S 22+90	RT	C-2A	1	NO DET. WARNING SURFACE
S 23+41	RT	C-2A	1	NO DET. WARNING SURFACE
S 25+76	RT	C-2A	1	NO DET. WARNING SURFACE

0 20 40
SCALE IN FEET

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

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

FILE NAME: 622472Flbdr.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: T. MATTHEWS
PROJECT LAYOUT SHEET 2

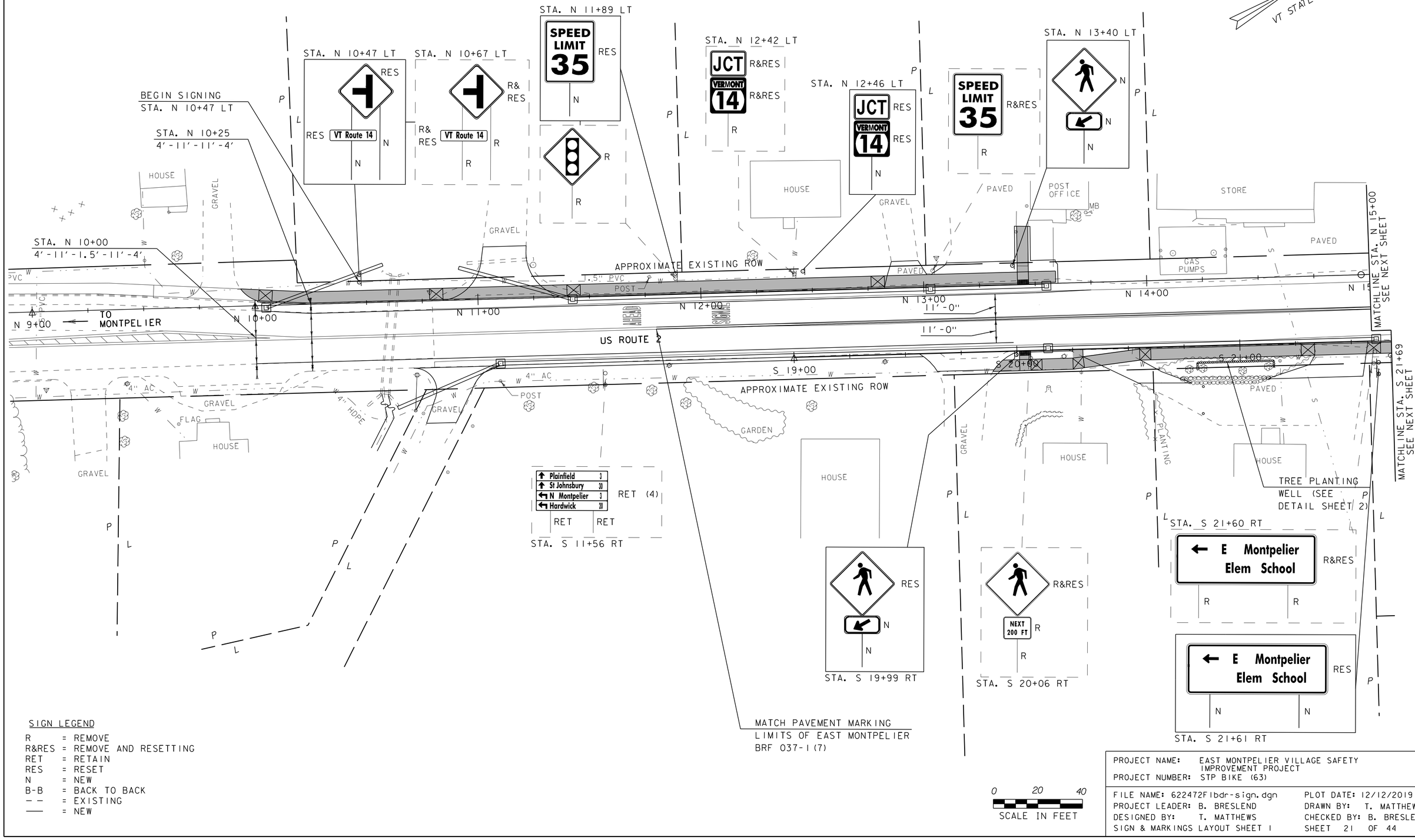
PLOT DATE: 12/12/2019
DRAWN BY: T. MATTHEWS
CHECKED BY: B. BRESLEND
SHEET 20 OF 44

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

DURABLE 4" YELLOW LINE, THERMOPLASTIC
STA. N 11+80 - STA. N 15+00 (SOLID DOUBLE RT)

REMOVING SIGNS
AS SHOWN - 9

RESETTING SIGNS
AS SHOWN - 7



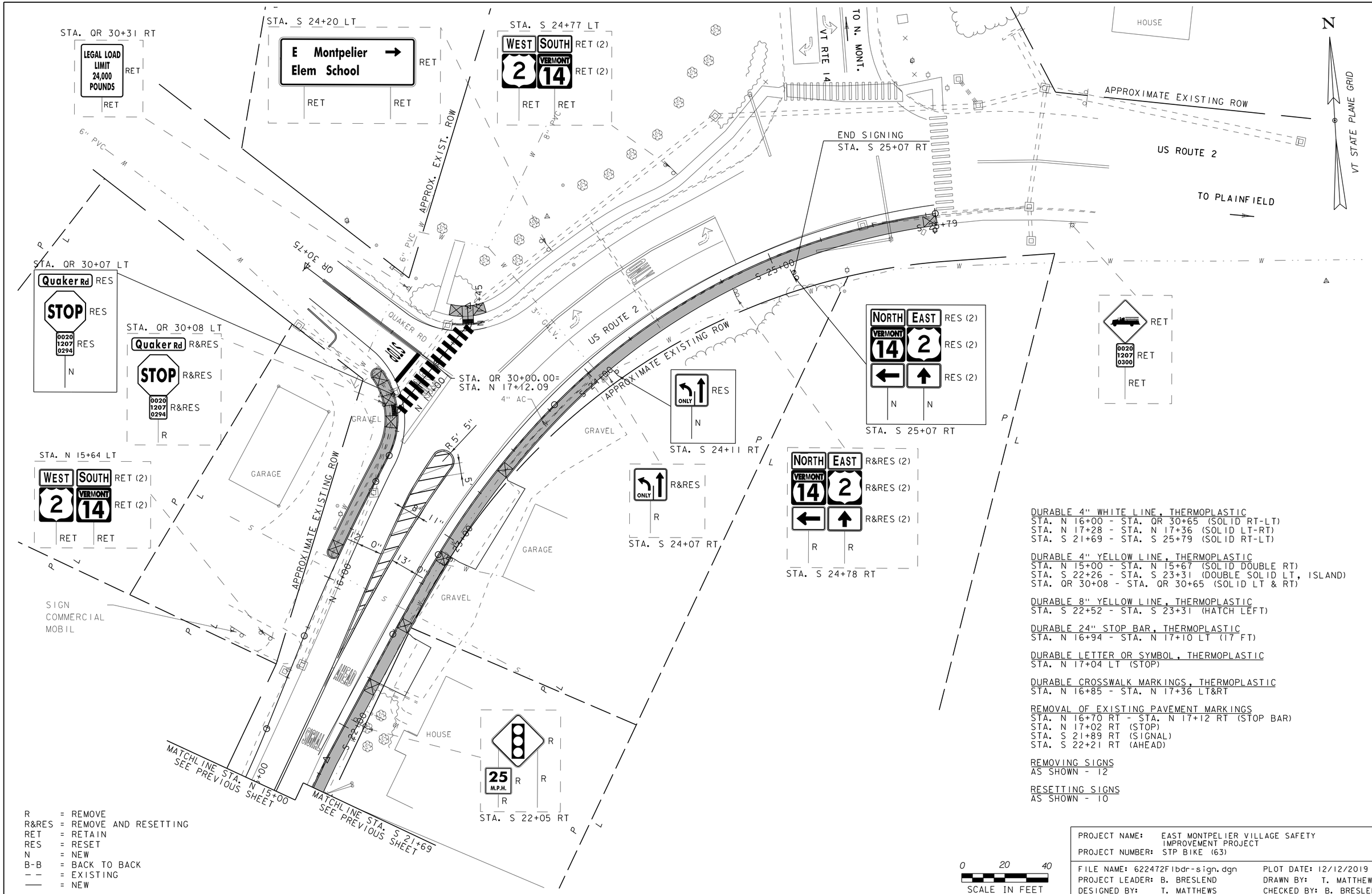
SIGN LEGEND

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

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: T. MATTHEWS
SIGN & MARKINGS LAYOUT SHEET 1
PLOT DATE: 12/12/2019
DRAWN BY: T. MATTHEWS
CHECKED BY: B. BRESLEND
SHEET 21 OF 44



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

DURABLE 4" WHITE LINE, THERMOPLASTIC
STA. N 16+00 - STA. QR 30+65 (SOLID RT-LT)
STA. N 17+28 - STA. N 17+36 (SOLID LT-RT)
STA. S 21+69 - STA. S 25+79 (SOLID RT-LT)

DURABLE 4" YELLOW LINE, THERMOPLASTIC
STA. N 15+00 - STA. N 15+67 (SOLID DOUBLE RT)
STA. S 22+26 - STA. S 23+31 (DOUBLE SOLID LT, ISLAND)
STA. QR 30+08 - STA. QR 30+65 (SOLID LT & RT)

DURABLE 8" YELLOW LINE, THERMOPLASTIC
STA. S 22+52 - STA. S 23+31 (HATCH LEFT)

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

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

RESETTING SIGNS
AS SHOWN - 10

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: T. MATTHEWS
SIGN & MARKINGS LAYOUT SHEET 2

PLOT DATE: 12/12/2019
DRAWN BY: T. MATTHEWS
CHECKED BY: B. BRESLEND
SHEET 22 OF 44

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 927 FEET IN LENGTH, BEGINNING ON THE SOUTH WEST OF US ROUTE 2 AND CONTINUING NORTH EAST TO MEET VT ROUTE 14. PROJECT INCLUDES 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 0.45 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: 12/12/2019
PROJECT LEADER: B. BRESLEND DRAWN BY: O. DALMER
DESIGNED BY: B. BRESLEND CHECKED BY: C. LATHROP
EPSC NARRATIVE SHEET 23 OF 44

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: 12/12/2019
PROJECT LEADER: B. BRESLEND	DRAWN BY: O. DALMER
DESIGNED BY: B. BRESLEND	CHECKED BY: C. LATHROP
EPSC LEGEND & NOTES	SHEET 24 OF 44

BEGIN PROJECT
BEGIN 5' CONCRETE
SIDEWALK
STA. N 9+93.70

CLASS III WETLAND

CLASS III
WETLAND

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

END SIDEWALK
STA. N 13+59.23

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

HOUSE
GRAVEL
PAVED
POST OFFICE
MB
STORE
GAS PUMPS
PAVED
APPROXIMATE EXISTING ROW
POST
PVC
N 9+00
TO MONTPELIER
N 10+00
N 11+00
N 12+00
N 13+00
N 14+00
MATCHLINE STA. N 15+00
SEE NEXT SHEET

US ROUTE 2

4" AC
GRAVEL
FLAG
HOUSE
4" HDPE
POST
GARDEN
S 19+00
S 20+00
S 21+00
PAVED
PLANTING
MATCHLINE STA. S 21+69
SEE NEXT SHEET

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

BEGIN SIDEWALK
STA. S 19+88.99

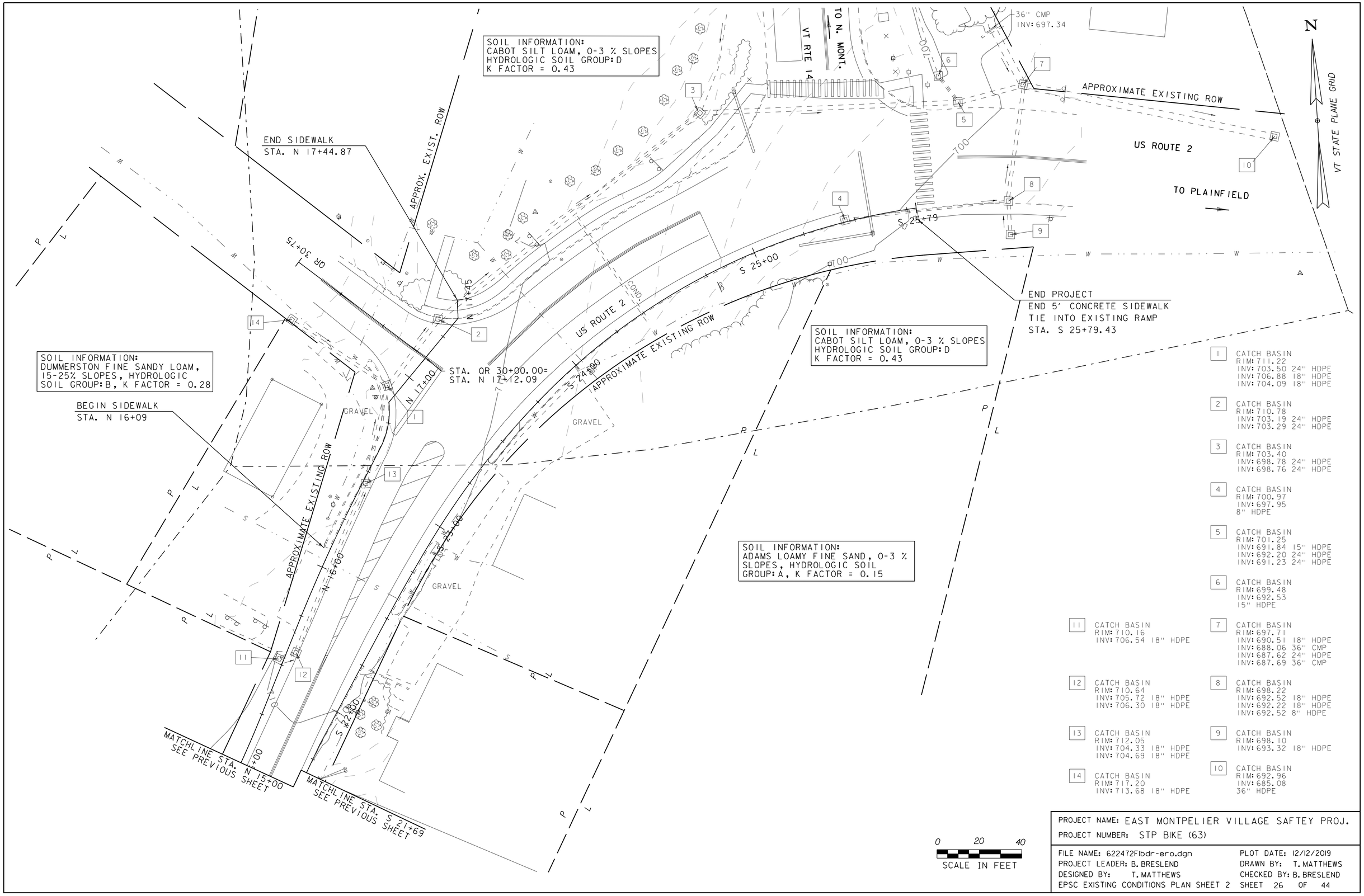
VT STATE PLANE GRID

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: T. MATTHEWS
EPSC EXISTING CONDITIONS PLAN SHEET 1

PLOT DATE: 12/12/2019
DRAWN BY: T. MATTHEWS
CHECKED BY: B. BRESLEND
SHEET 25 OF 44



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

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

FILE NAME: 622472Flbdr-ero.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: T. MATTHEWS
EPSC EXISTING CONDITIONS PLAN SHEET 2

PLOT DATE: 12/12/2019
DRAWN BY: T. MATTHEWS
CHECKED BY: B. BRESLEND
SHEET 26 OF 44

SEED
STA. N 9+63 - STA. N 9+78 LT
STA. N 9+91 - STA. N 11+04 LT
STA. N 10+40 - STA. N 10+80 RT
STA. N 10+89 - STA. S 19+65 RT
STA. N 11+23 - STA. N 12+86 LT
STA. N 12+97 - STA. N 13+13 LT
STA. S 19+85 - STA. S 20+61 RT
STA. S 20+52 - STA. S 21+34 RT
STA. S 21+51 - STA. S 21+63 RT

FERTILIZER
STA. N 9+63 - STA. N 9+78 LT
STA. N 9+91 - STA. N 11+04 LT
STA. N 10+40 - STA. N 10+80 RT
STA. N 10+89 - STA. S 19+65 RT
STA. N 11+23 - STA. N 12+86 LT
STA. N 12+97 - STA. N 13+13 LT
STA. S 19+85 - STA. S 20+61 RT
STA. S 20+52 - STA. S 21+34 RT
STA. S 21+51 - STA. S 21+63 RT

AGRICULTURAL LIMESTONE
STA. N 9+63 - STA. N 9+78 LT
STA. N 9+91 - STA. N 11+04 LT
STA. N 10+40 - STA. N 10+80 RT
STA. N 10+89 - STA. S 19+65 RT
STA. N 11+23 - STA. N 12+86 LT
STA. N 12+97 - STA. N 13+13 LT
STA. S 19+85 - STA. S 20+61 RT
STA. S 20+52 - STA. S 21+34 RT
STA. S 21+51 - STA. S 21+63 RT

TOPSOIL
STA. N 9+63 - STA. N 9+78 LT
STA. N 9+91 - STA. N 11+04 LT
STA. N 10+40 - STA. N 10+80 RT
STA. N 10+89 - STA. S 19+65 RT
STA. N 11+23 - STA. N 12+86 LT
STA. N 12+97 - STA. N 13+13 LT
STA. S 19+85 - STA. S 20+61 RT
STA. S 20+52 - STA. S 21+34 RT
STA. S 21+51 - STA. S 21+63 RT

HAY MULCH
STA. N 9+63 - STA. N 9+78 LT
STA. N 9+91 - STA. N 11+04 LT
STA. N 10+40 - STA. N 10+80 RT
STA. N 10+89 - STA. S 19+65 RT
STA. N 11+23 - STA. N 12+86 LT
STA. N 12+97 - STA. N 13+13 LT
STA. S 19+85 - STA. S 20+61 RT
STA. S 20+52 - STA. S 21+34 RT
STA. S 21+51 - STA. S 21+63 RT

STABILIZED CONSTRUCTION ENTRANCE
STA. N 9+92 LT

INLET PROTECTION DEVICE, TYPE II
STA. N 10+05 RT
STA. N 11+42 RT
STA. N 13+04 RT
STA. N 13+55 LT
STA. S 20+14 RT
STA. S 21+61 LT

INLET PROTECTION DEVICE, TYPE III
STA. N 10+60 LT
STA. N 11+24 LT

SILT FENCE, TYPE I
STA. N 9+91 - STA. N 11+03 LT
STA. N 11+23 - STA. N 12+85 LT
STA. N 10+61 - STA. N 10+75 RT
STA. S 21+53 - STA. S 21+63 RT

BARRIER FENCE
STA. N 10+90 - STA. N 13+06 RT
STA. N 13+01 - STA. N 13+13 LT
STA. S 19+85 - STA. S 20+54 RT

VT STATE PLANE GRID

SIDEWALK RAMP (SEE STD C-3B) (TYP)

BEGIN PROJECT
BEGIN 5' CONCRETE SIDEWALK
STA. N 9+93.70

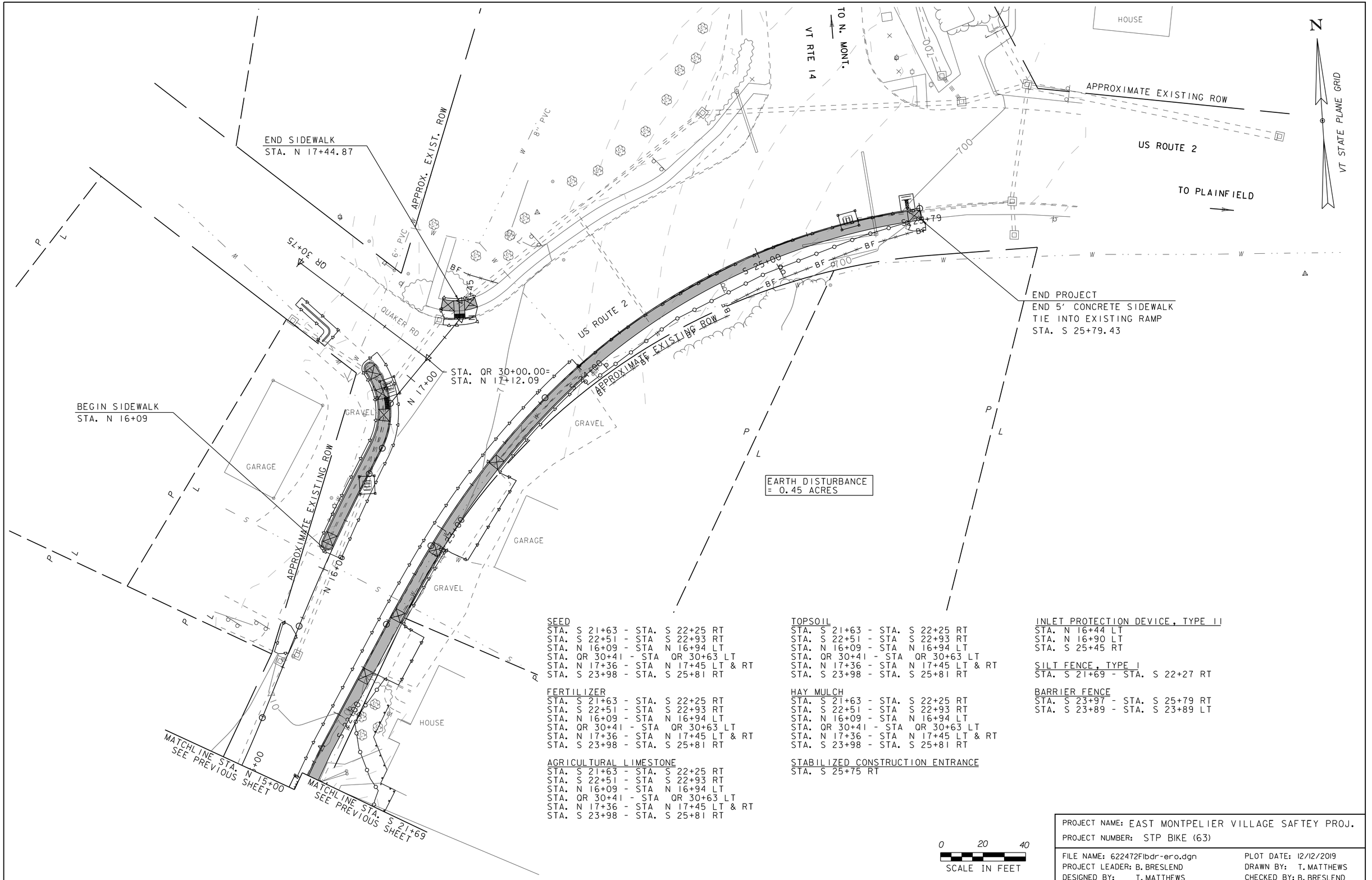
END SIDEWALK
STA. N 13+59.23

HOUSE
GRAVEL
CLASS III WETLAND
APPROXIMATE EXISTING ROW
PAVED
POST OFFICE
MB
STORE
GAS PUMPS
PVC
POST
N 9+00
TO MONTPELIER
N 10+00
N 11+00
N 12+00
N 13+00
N 14+00
N 15+00
MATCHLINE STA. N 15+00 SEE NEXT SHEET
US ROUTE 2
S 19+00
S 20+00
S 21+00
MATCHLINE STA. S 21+69 SEE NEXT SHEET
FLAG
GARDEN
PLANTING
BEGIN SIDEWALK
STA. S 19+88.99

EARTH DISTURBANCE
= 0.45 ACRES

0 20 40
SCALE IN FEET

PROJECT NAME: EAST MONTPELIER VILLAGE SAFTEY PROJ.	
PROJECT NUMBER: STP BIKE (63)	
FILE NAME: 622472Flbdr-ero.dgn	PLOT DATE: 12/12/2019
PROJECT LEADER: B. BRESLEND	DRAWN BY: T. MATTHEWS
DESIGNED BY: T. MATTHEWS	CHECKED BY: B. BRESLEND
EPSC CONSTRUCTION PLAN SHEET 1	SHEET 27 OF 44



EARTH DISTURBANCE
= 0.45 ACRES

SEED
STA. S 21+63 - STA. S 22+25 RT
STA. S 22+51 - STA S 22+93 RT
STA. N 16+09 - STA N 16+94 LT
STA. QR 30+41 - STA QR 30+63 LT
STA. N 17+36 - STA N 17+45 LT & RT
STA. S 23+98 - STA. S 25+81 RT

FERTILIZER
STA. S 21+63 - STA. S 22+25 RT
STA. S 22+51 - STA S 22+93 RT
STA. N 16+09 - STA N 16+94 LT
STA. QR 30+41 - STA QR 30+63 LT
STA. N 17+36 - STA N 17+45 LT & RT
STA. S 23+98 - STA. S 25+81 RT

AGRICULTURAL LIMESTONE
STA. S 21+63 - STA. S 22+25 RT
STA. S 22+51 - STA S 22+93 RT
STA. N 16+09 - STA N 16+94 LT
STA. QR 30+41 - STA QR 30+63 LT
STA. N 17+36 - STA N 17+45 LT & RT
STA. S 23+98 - STA. S 25+81 RT

TOPSOIL
STA. S 21+63 - STA. S 22+25 RT
STA. S 22+51 - STA S 22+93 RT
STA. N 16+09 - STA N 16+94 LT
STA. QR 30+41 - STA QR 30+63 LT
STA. N 17+36 - STA N 17+45 LT & RT
STA. S 23+98 - STA. S 25+81 RT

HAY MULCH
STA. S 21+63 - STA. S 22+25 RT
STA. S 22+51 - STA S 22+93 RT
STA. N 16+09 - STA N 16+94 LT
STA. QR 30+41 - STA QR 30+63 LT
STA. N 17+36 - STA N 17+45 LT & RT
STA. S 23+98 - STA. S 25+81 RT

STABILIZED CONSTRUCTION ENTRANCE
STA. S 25+75 RT

INLET PROTECTION DEVICE, TYPE II
STA. N 16+44 LT
STA. N 16+90 LT
STA. S 25+45 RT

SILT FENCE, TYPE I
STA. S 21+69 - STA. S 22+27 RT

BARRIER FENCE
STA. S 23+97 - STA. S 25+79 RT
STA. S 23+89 - STA. S 23+89 LT

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: T. MATTHEWS
EPSC CONSTRUCTION PLAN SHEET 2

PLOT DATE: 12/12/2019
DRAWN BY: T. MATTHEWS
CHECKED BY: B. BRESLEND
SHEET 28 OF 44

VT STATE PLANE GRID

N 9+00

TO MONTPELIER

N 10+00

N 11+00

N 12+00

N 13+00

N 14+00

N 15

MATCHLINE STA. N 15+00
SEE NEXT SHEET

US ROUTE 2

S 19+00

S 20+00

S 21+00

MATCHLINE STA. S 21+69
SEE NEXT SHEET

APPROXIMATE EXISTING ROW

CLASS III WETLAND

CLASS III WETLAND

HOUSE

HOUSE

HOUSE

HOUSE

HOUSE

HOUSE

FLAG

GARDEN

GRAVEL

GRAVEL

GRAVEL

GRAVEL

GRAVEL

GRAVEL

PAVED

PAVED

PAVED

PAVED

POST OFFICE

MB

STORE

GAS PUMPS

PLANTING

POST

POST

4" AC

4" AC

4" HDPE

15" PVC

PVC

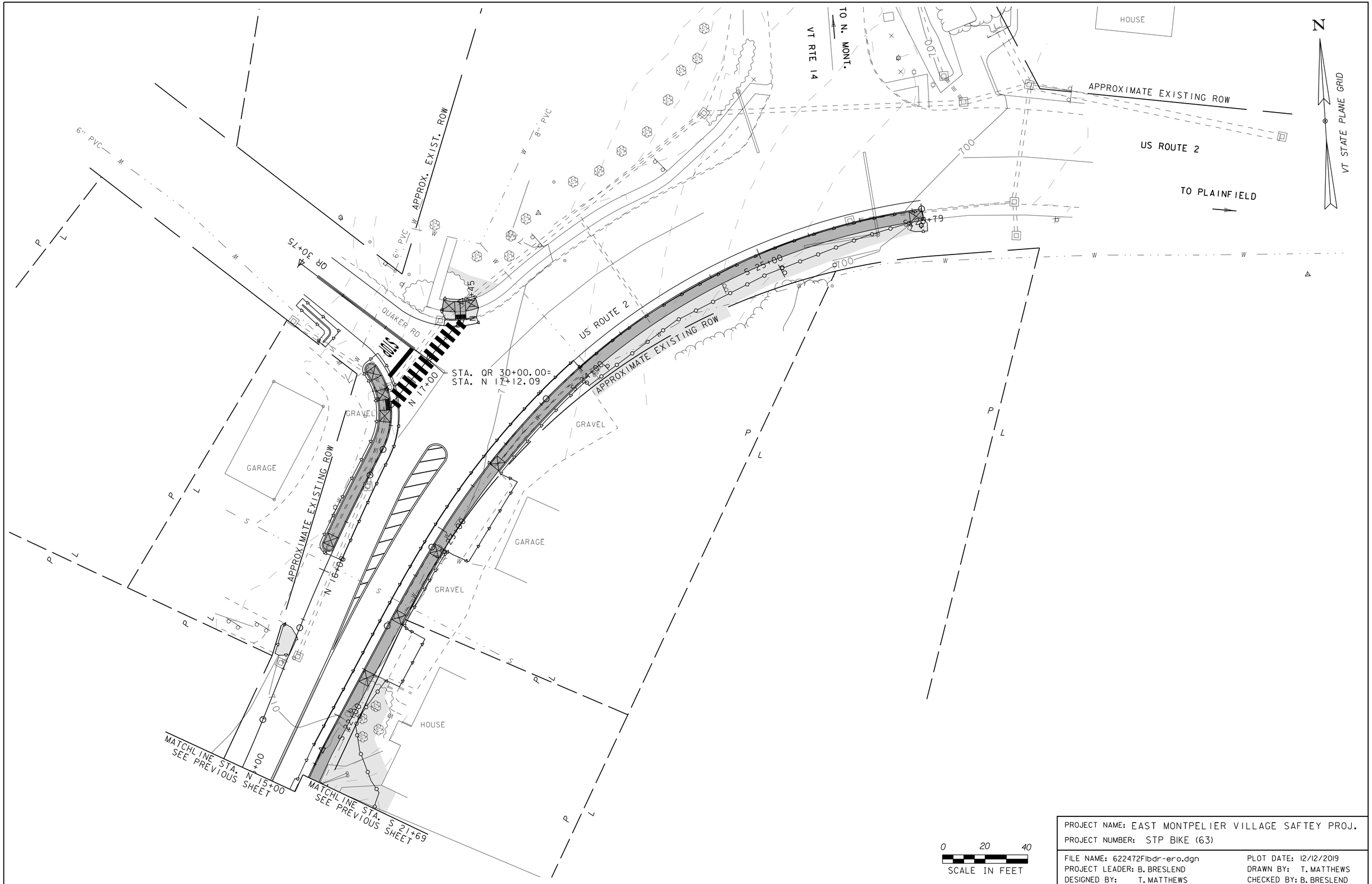
PVC

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: T. MATTHEWS
EPSC FINAL CONDITIONS PLAN SHEET I

PLOT DATE: 12/12/2019
DRAWN BY: T. MATTHEWS
CHECKED BY: B. BRESLEND
SHEET 29 OF 44



PROJECT NAME: EAST MONTPELIER VILLAGE SAFTEY PROJ.	
PROJECT NUMBER: STP BIKE (63)	
FILE NAME: 622472Flbdr-ero.dgn	PLOT DATE: 12/12/2019
PROJECT LEADER: B. BRESLEND	DRAWN BY: T. MATTHEWS
DESIGNED BY: T. MATTHEWS	CHECKED BY: B. BRESLEND
EPSC FINAL CONDITIONS PLAN SHEET 2	SHEET 30 OF 44

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

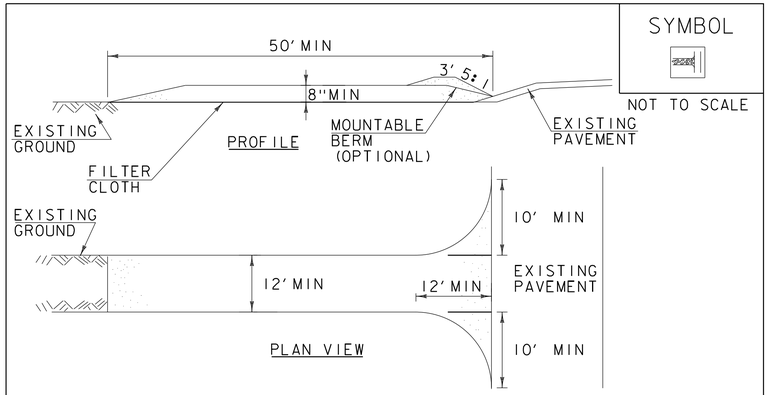
1. SEED MIX: THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER ON WHICH SEED MIX TO USE.
2. SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT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

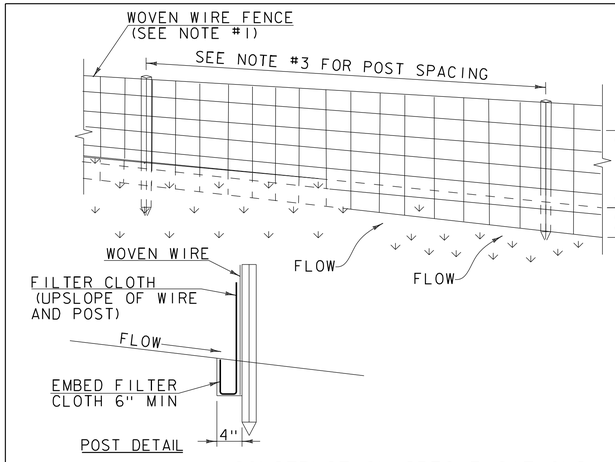
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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

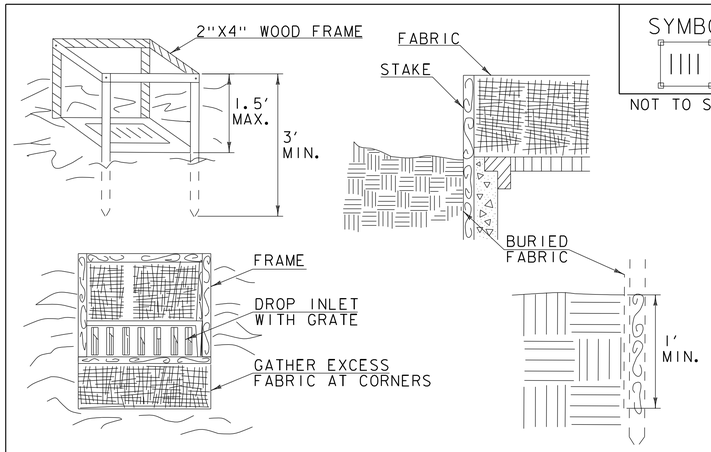
NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

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 PLOT DATE: 12/12/2019
PROJECT LEADER: B. BRESLEND DRAWN BY: O. DALMER
DESIGNED BY: B. BRESLEND CHECKED BY: C. LATHROP
EPSC DETAILS SHEET 1 SHEET 31 OF 44



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

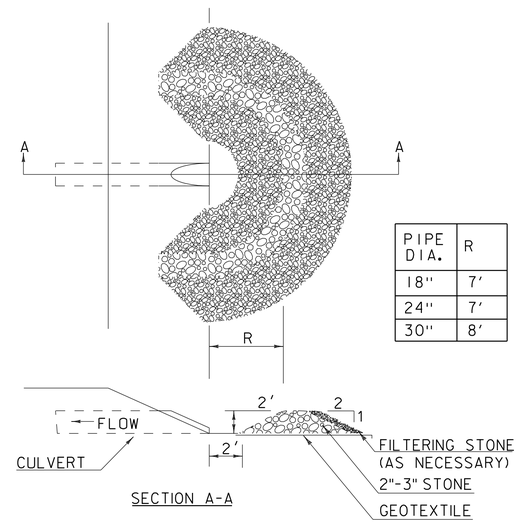
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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'

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).

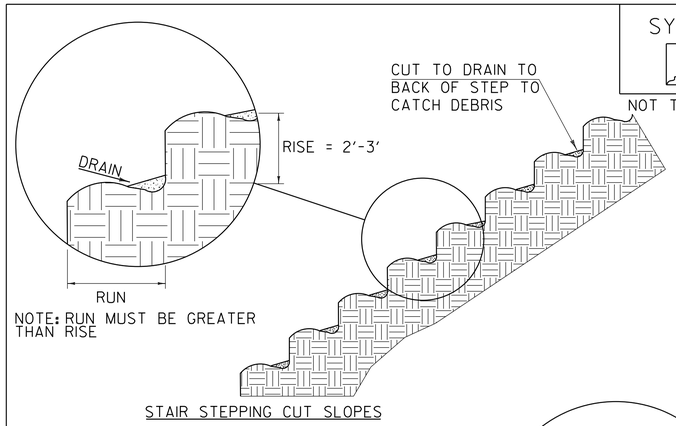
REVISIONS	
MARCH 6, 2008	WHF
JANUARY 13, 2009	WHF

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

FILE NAME: 622472FIEPSC_Narrative.dgn PLOT DATE: 12/12/2019
PROJECT LEADER: B. BRESLEND DRAWN BY: O. DALMER
DESIGNED BY: B. BRESLEND CHECKED BY: C. LATHROP
EPSC DETAILS SHEET 2 SHEET 32 OF 44

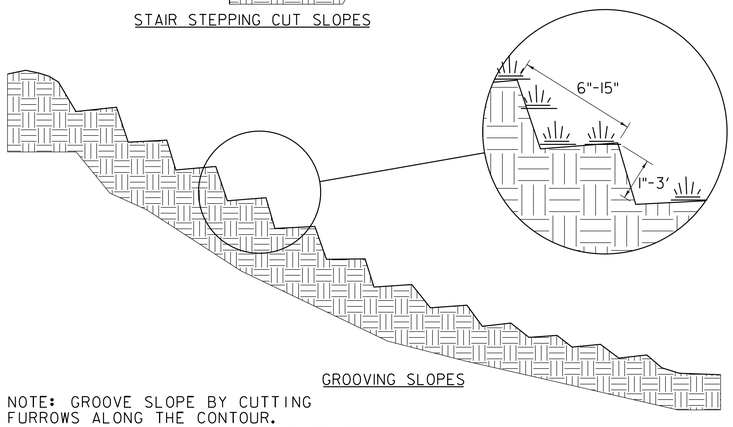
SYMBOL

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

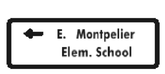
REVISIONS	
APRIL 1, 2008	WHF
JANUARY 13, 2009	WHF

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

FILE NAME: 622472F1EPSC_Narrative.dgn PLOT DATE: 12/12/2019
PROJECT LEADER: B. BRESLEND DRAWN BY: O. DALMER
DESIGNED BY: B. BRESLEND CHECKED BY: C. LATHROP
EPSC DETAILS SHEET 3 SHEET 33 OF 44

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 1

MILE MARKER, STATION OR SIGN NUMBER		SIGN DIMENSIONS			NEW & RESETTED SIGNS				EXIST POST		NEW SIGN POSTS																				REMARKS	SIGN DETAIL		
		EACH	WIDTH (in)	HEIGHT (in)	"A"	"B"	RES SIGN	RES 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. 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			24	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+40 LT EAST MONTPELIER			30	30	6.25						1					15		X														W11-2 (FLUORESCENT YELLOW SHEETING)	X		
			24	12	2.00																											W16-7PL (FLUORESCENT YELLOW SHEETING)	X		
STA. 19+99 RT EAST MONTPELIER			30	30			1				1					15		X														SALVAGE SIGN ON NEW POST			
			24	12	2.00																											W16-7PL (FLUORESCENT YELLOW SHEETING)	X		
STA. S 21+61 RT EAST MONTPELIER			72	20			1				2					30		X														SALVAGE SIGN ON NEW POST			
															FT 0	FT 120	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 10.25	SF	EA. 7	SF						FT			FT 120					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: 12/12/2019
DRAWN BY: O. DALMER
CHECKED BY: C. LATHROP
SHEET 34 OF 44

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 2

MILE MARKER, STATION OR SIGN NUMBER		SIGN DIMENSIONS			NEW & RESETTED SIGNS				EXIST POST		NEW SIGN POSTS																				REMARKS	SIGN DETAIL		
											NO. OF	FLANGED CHANNEL			SQUARE STEEL (in)					TUBULAR ALUMINUM Ø (IN)			TUBULAR STEEL Ø (IN)				W-SHAPE STEEL								DETAIL IN SHSM	DETAIL ON SHEET NUMBER	STANDARD SHEET NUMBER
		EACH	WIDTH (in)	HEIGHT (in)	"A"	"B"	RES SIGN	RES TIS	RETAIN	SALVAGE	POST	(LB / FT)			1.75 / 2.00 / 2.50 (LB / FT)			ANCHOR	SLEEVE	3.00 / 4.00 / 4.0 MOD (LB / FT)			FOUND-ATION	3.00 / 3.50 / 4.00 / 5.00 (LB / FT)				FTG. SIZE 24"	FTG. SIZE 30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED				
												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 24+11 RT EAST MONTPELIER			30	30			1				1					15		X															SALVAGE SIGN ON NEW POST			
STA. S 25+07 RT EAST MONTPELIER			24 24	12 12			1 1				2					30		X															SALVAGE SIGN ON NEW POST SALVAGE SIGN ON NEW POST			
			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			12	42			1				1					15		X															SALVAGE SIGN ON NEW POST			
			30	30			1																										SALVAGE SIGN ON NEW POST			
			6	10.00			1																										SALVAGE SIGN ON NEW POST			
	TSSS 1 TOTAL TSSS 2 TOTAL				10.25 0.00		7 10								0 0	120 60	0 0			0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 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."	SUBTOTAL				10.25										FT 0	FT 180	FT 0		EA					LB 0	LB 0	LB 0	LB 0							
	ROUNDING =				4.75												0																	
	TOTALS				SF 15.00	SF	EA. 17.	SF				FT			FT 180					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 2

PLOT DATE: 12/12/2019
DRAWN BY: O. DALMER
CHECKED BY: C. LATHROP
SHEET 35 OF 44

(1) STA. N 10+05.00 RT 1.00′
INSTALL PRECAST REINFORCED CONCRETE DROP INLET WITH CAST IRON GRATE (TYPE D)
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 = 694.08

(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 D)
RIM = 699.90′

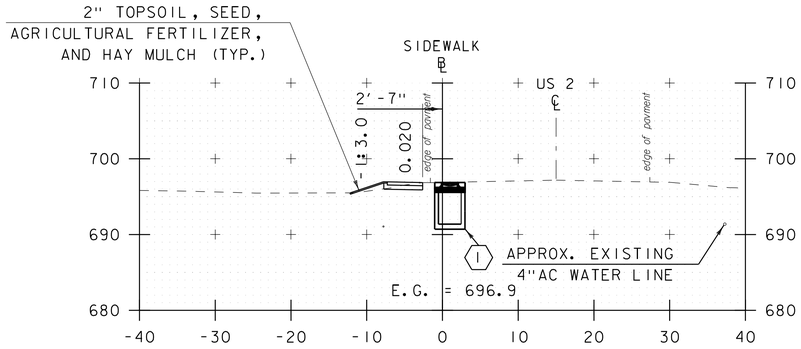
(5) STA. N 11+42.56 RT 1.00′ TO STA. N 13+04.00 RT 1.00′
INSTALL 18" CPEP (158′-6")
S = 0.019
INV IN = 698.44
INV OUT = 695.41

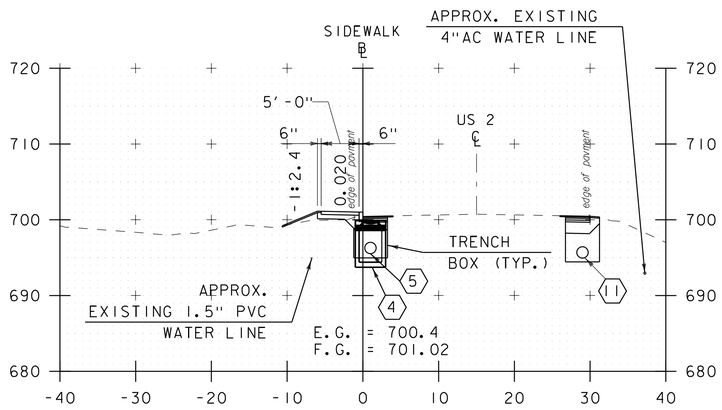
(6) STA. N 13+04.00 RT 1.00′
INSTALL PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (TYPE D)
RIM = 703.94′

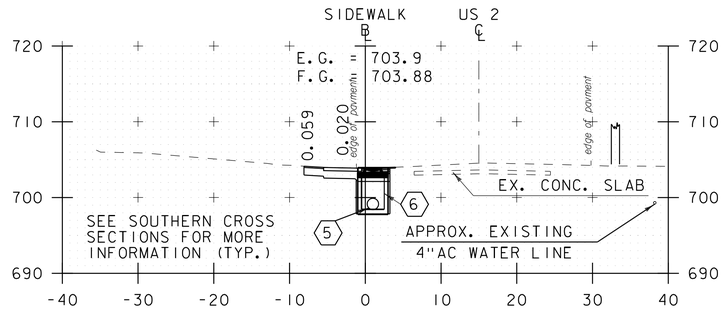
(9) STA. N 10+61.45 RT 48.21′ TO STA. N 11+09.37 RT 28.99′
INSTALL 18" CPEP (51′-0")
S = 0.010
INV IN = 693.45
INV OUT = 692.94

(10) STA. N 11+09.37 RT 28.99′
INSTALL PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON COVER
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

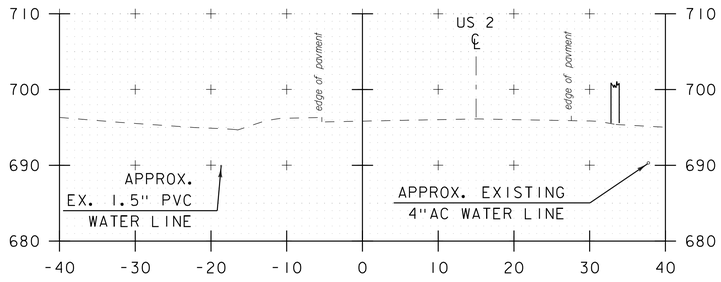




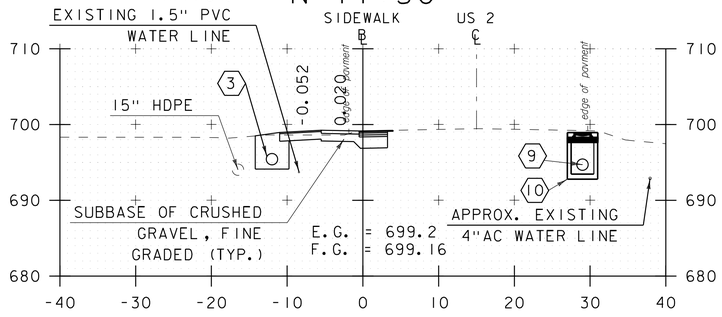


BEGIN PROJECT
BEGIN 5′ CONCRETE SIDEWALK
STA. N 9+93.70

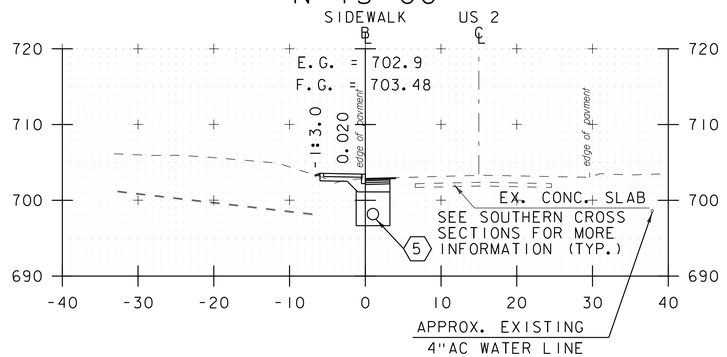
N 10+00



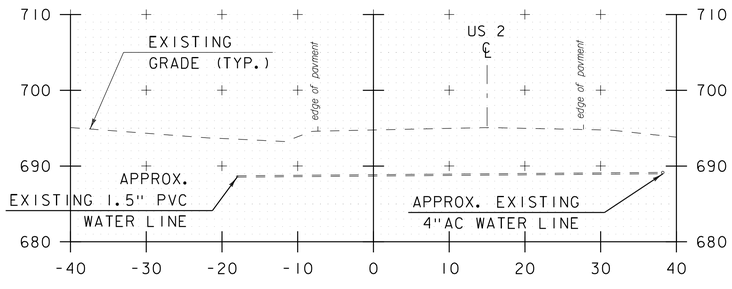
N 11+50



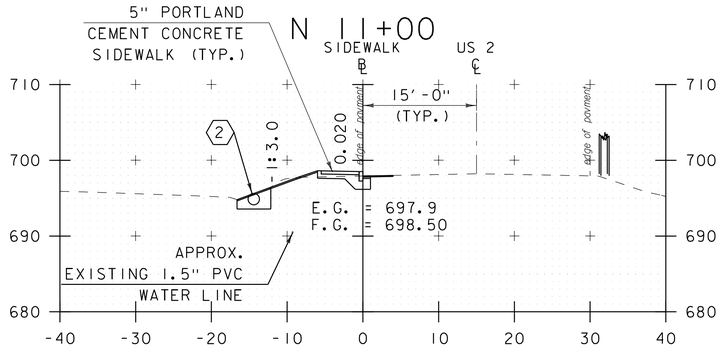
N 13+00



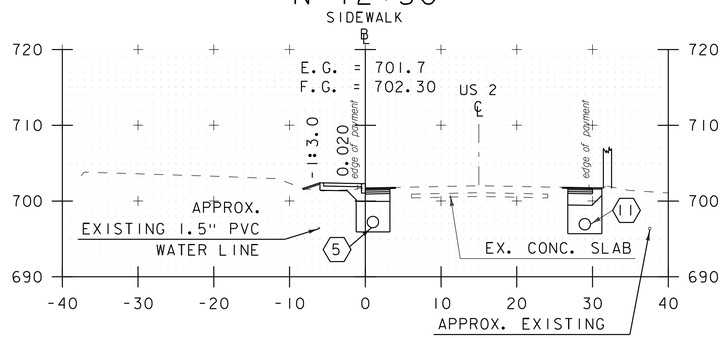
N 9+50



N 11+00



N 12+50



N 9+00

N 10+50

N 12+00

0 10 20
SCALE IN FEET

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

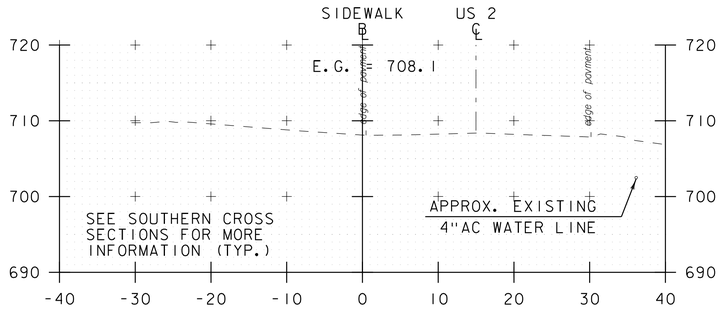
PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472xs2.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: T. MATTHEWS
CROSS SECTION SHEET 1

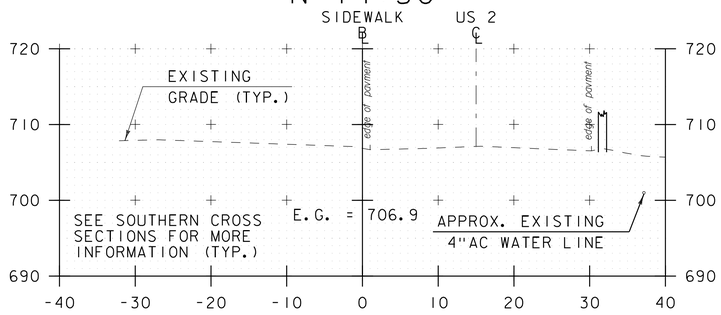
PLOT DATE: 12/12/2019
DRAWN BY: T. MATTHEWS
CHECKED BY: C. LATHROP
SHEET 36 OF 44

(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 D)
RIM = 704.98

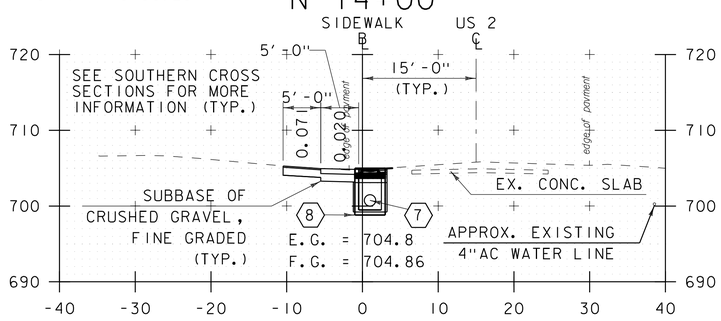


N 14+50

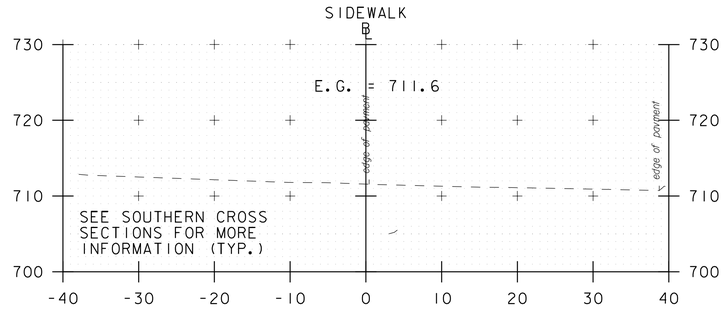


END SIDEWALK
STA. N 13+59.23

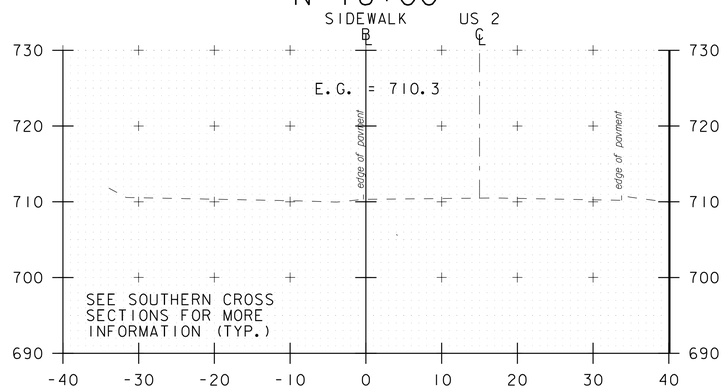
N 14+00



N 13+50



N 16+00



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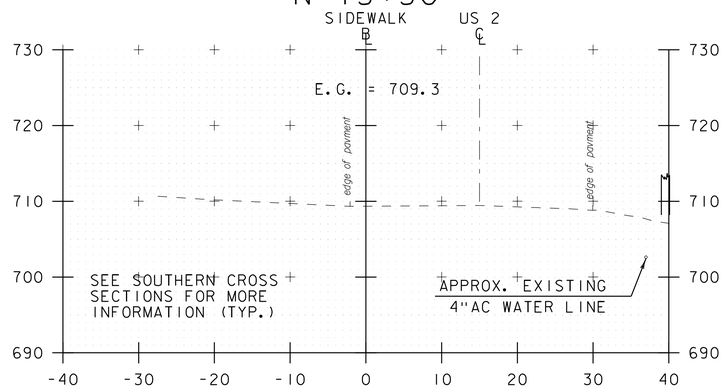

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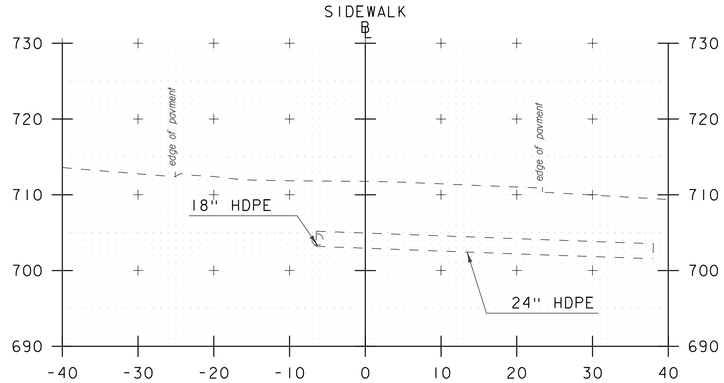
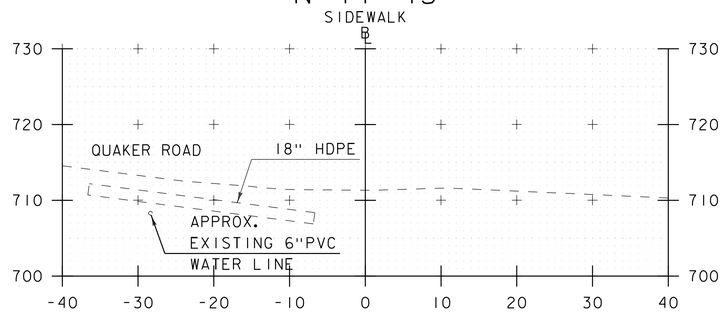
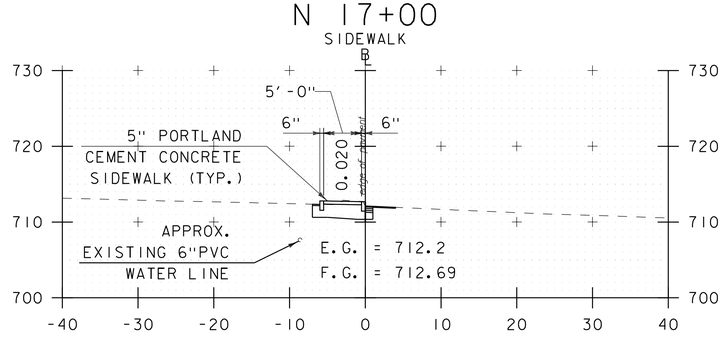


END SIDEWALK
STA. N 17+44.87

N 17+45



N 17+00



N 16+50

0 10 20
SCALE IN FEET

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

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

FILE NAME: 622472xs2.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: T. MATTHEWS
CROSS SECTION SHEET 2

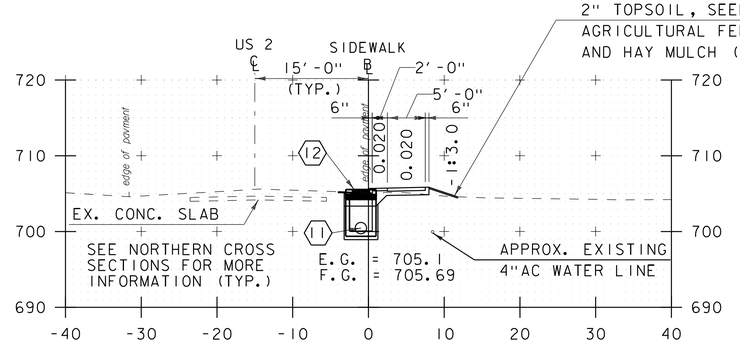
PLOT DATE: 12/12/2019
DRAWN BY: T. MATTHEWS
CHECKED BY: C. LATHROP
SHEET 37 OF 44

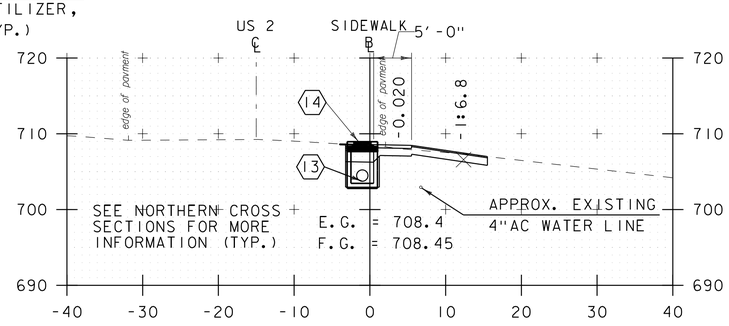
(11) STA. N 11+09.37 RT 28.99' TO STA. S 20+14.03 LT 1.00'
INSTALL 18" CPEP (243'-6")
S = 0.025
INV IN = 700.04
INV OUT = 693.95

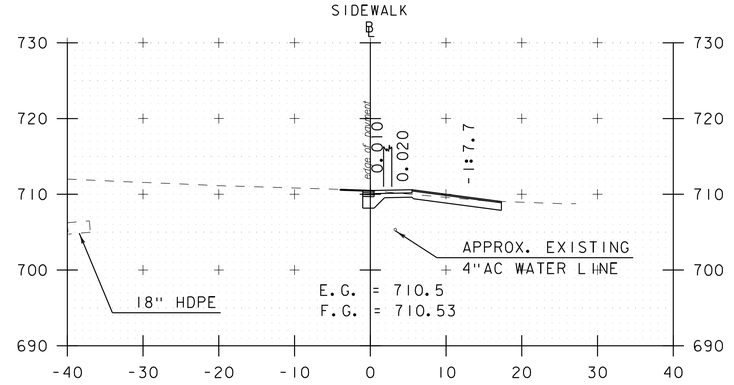
(12) STA. S 20+14.03 LT 1.00'
INSTALL PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (TYPE D)
RIM = 705.54

(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 D)
RIM = 708.96

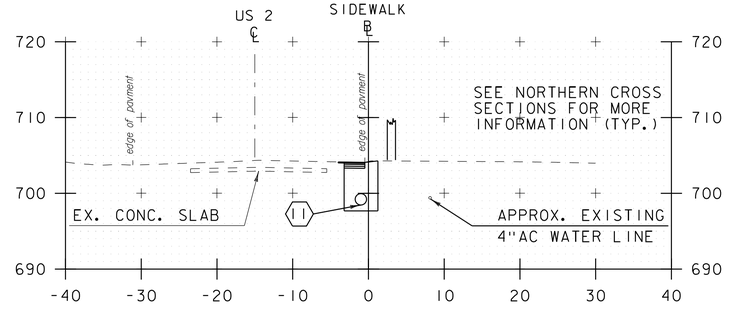




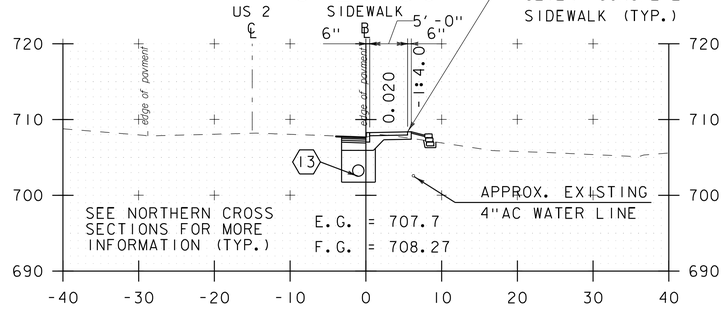


BEGIN SIDEWALK
STA. S 19+88.99

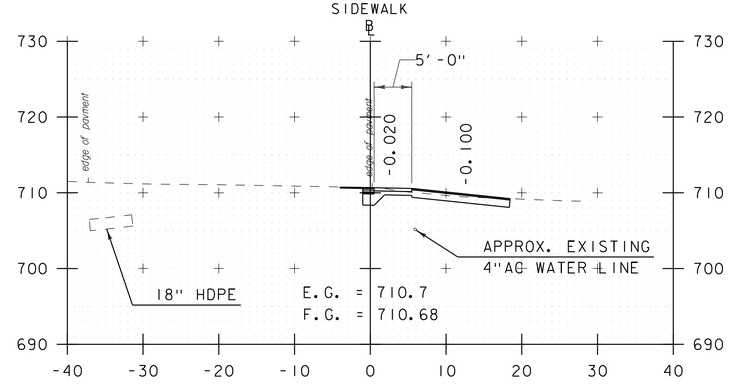
S 20+00



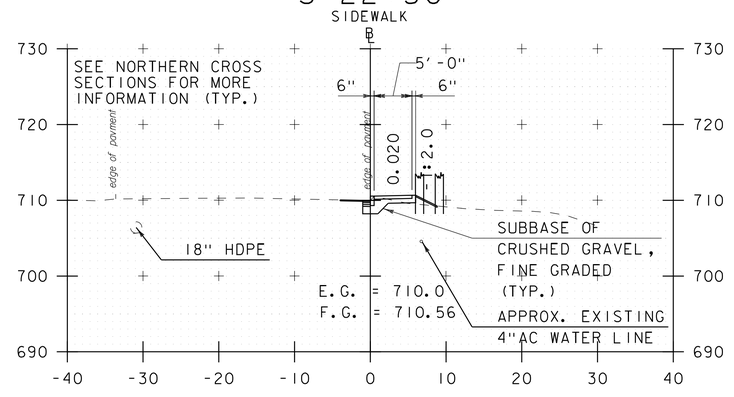
S 21+50



S 23+00

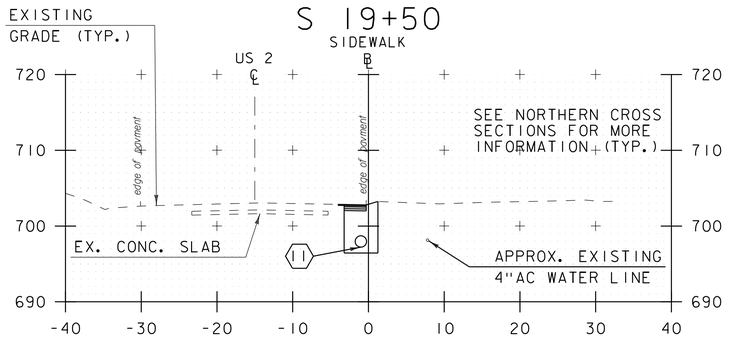


S 22+50

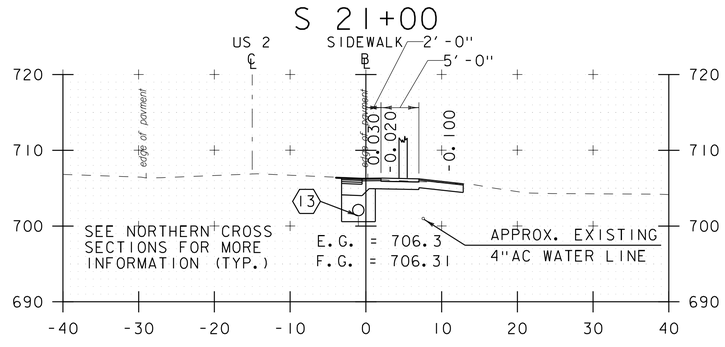


EXISTING GRADE (TYP.)

S 19+50



S 21+00



S 19+00

S 20+50

S 22+00

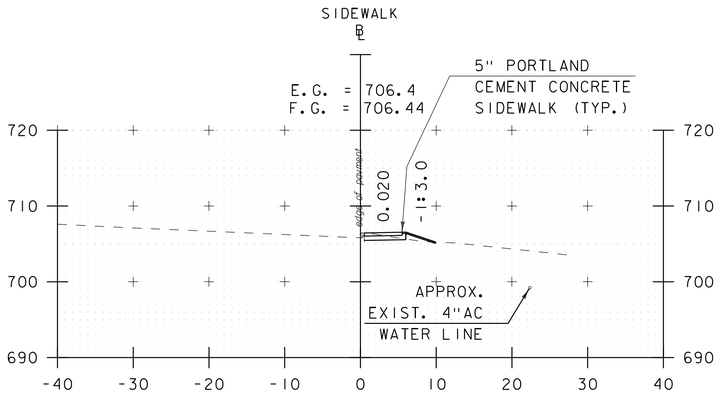
0 10 20
SCALE IN FEET

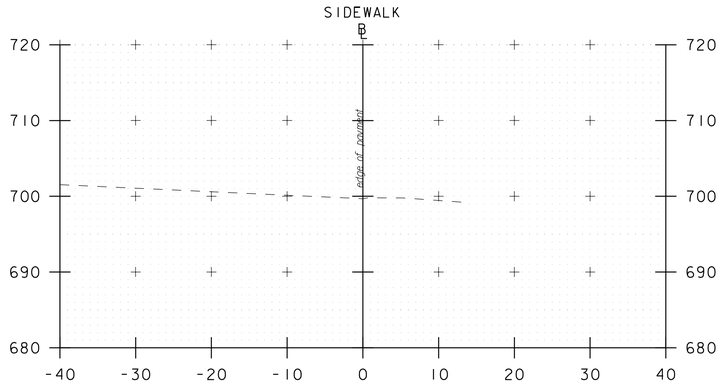
STA. S 19+00 TO STA. S 23+00

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

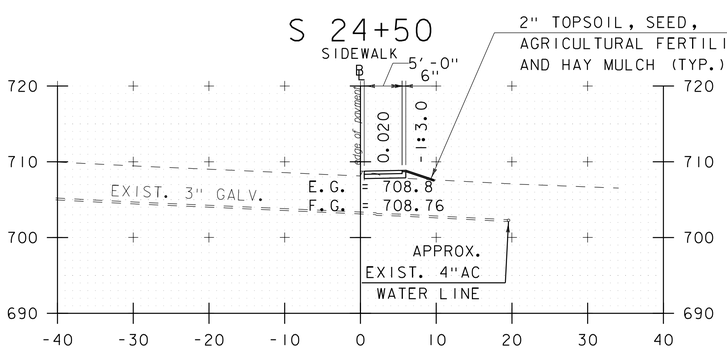
FILE NAME: 622472xs2.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: T. MATTHEWS
CROSS SECTION SHEET 3

PLOT DATE: 12/12/2019
DRAWN BY: T. MATTHEWS
CHECKED BY: C. LATHROP
SHEET 38 OF 44

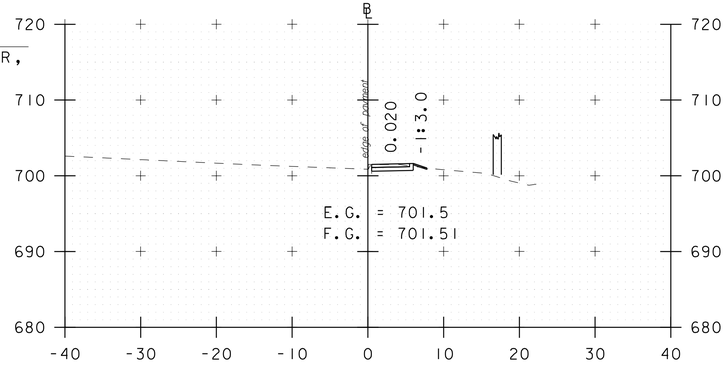




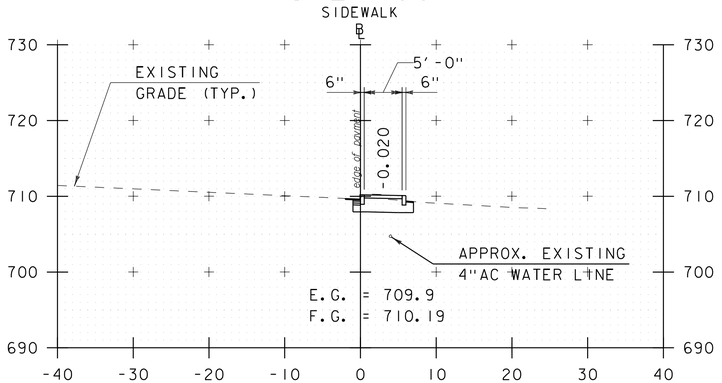
S 24+50



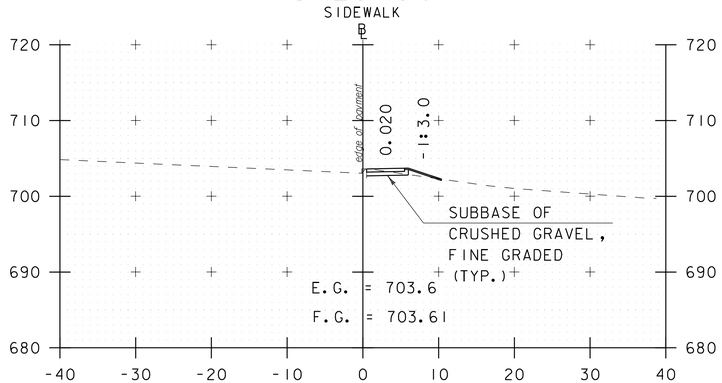
S 25+79



S 24+00



S 25+50



S 23+50

S 25+00

0 10 20
SCALE IN FEET

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

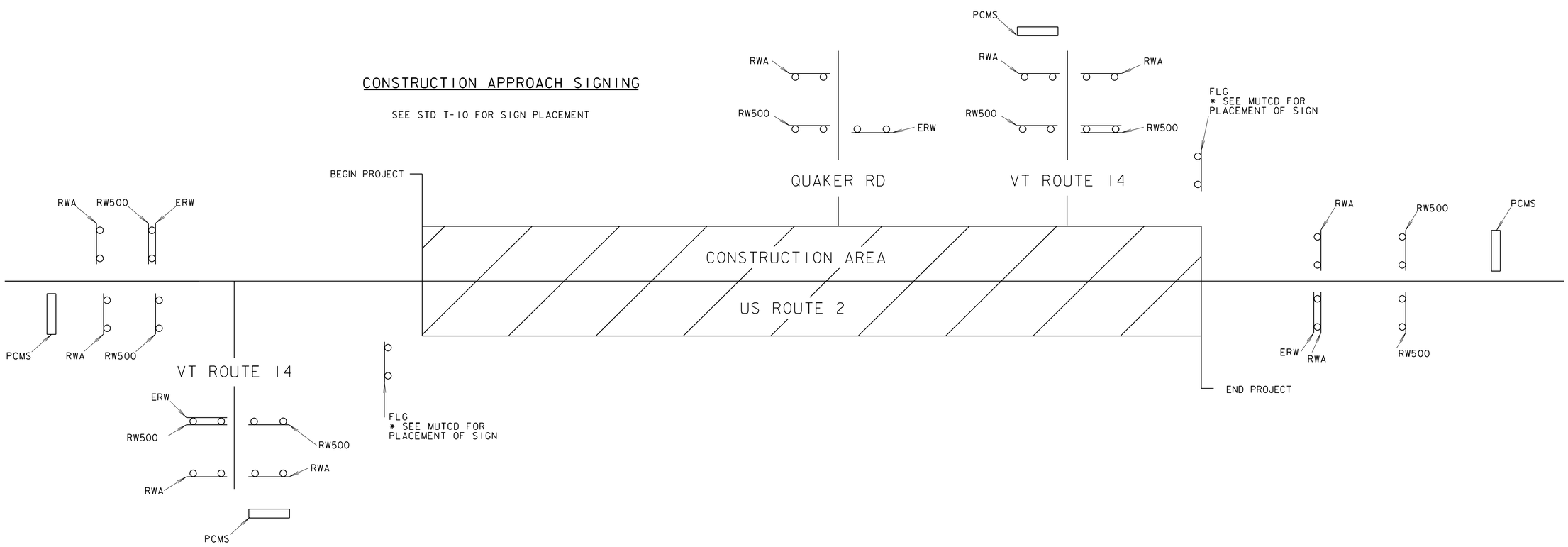
PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.
PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472xs2.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: T. MATTHEWS
CROSS SECTION SHEET 4

PLOT DATE: 12/12/2019
DRAWN BY: T. MATTHEWS
CHECKED BY: C. LATHROP
SHEET 39 OF 44

CONSTRUCTION APPROACH SIGNING

SEE STD T-10 FOR SIGN PLACEMENT



	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	1	
QUAKER RD	1	1				1	
VT ROUTE 14 - NORTH INTERSECTION	2	2			1	1	
END PROJECT - US ROUTE 2	2	2			1	1	1
TOTALS	9	9			4	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: 622472Flcas.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: T. MATTHEWS
CONSTRUCTION APPROACH SIGNING SHEET

PLOT DATE: 12/12/2019
DRAWN BY: T. MATTHEWS
CHECKED BY: C.LATHROP
SHEET 40 OF 44

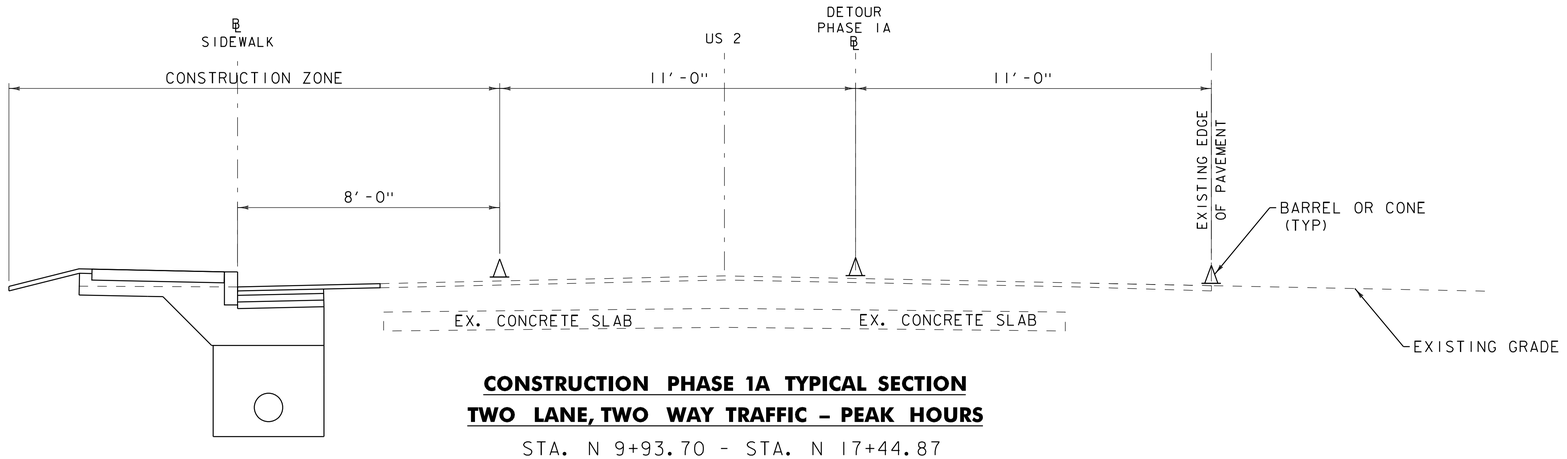
NOTE:

THE CONTRACTOR SHALL MAINTAIN TWO LANES OF TRAFFIC (ONE EASTBOUND, ONE WESTBOUND) THROUGH THE PROJECT AREA DURING THE PEAK HOURS DEFINED BELOW.

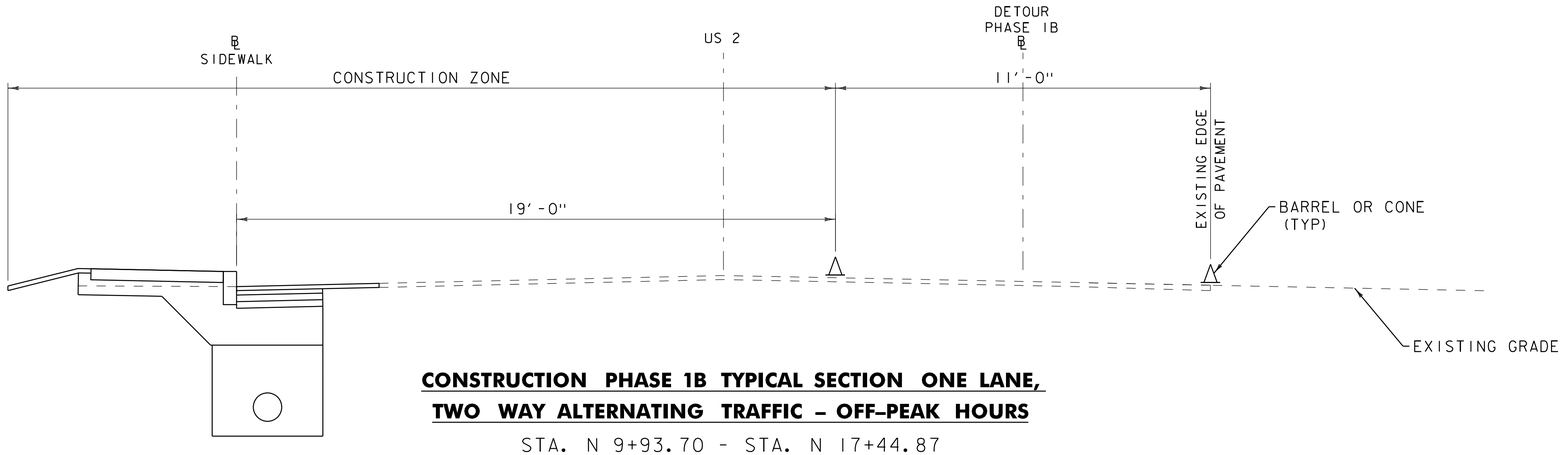
PEAK HOURS:

MONDAY THROUGH FRIDAY
7:00 AM TO 9:00 AM AND 3:00 PM TO 7:00 PM

SATURDAY
9:00 AM TO 6:00 PM



CONSTRUCTION PHASE 1A TYPICAL SECTION
TWO LANE, TWO WAY TRAFFIC – PEAK HOURS
STA. N 9+93.70 - STA. N 17+44.87



CONSTRUCTION PHASE 1B TYPICAL SECTION ONE LANE, TWO WAY ALTERNATING TRAFFIC – OFF-PEAK HOURS
STA. N 9+93.70 - STA. N 17+44.87

NOT TO SCALE

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.	
PROJECT NUMBER: STP BIKE (63)	
FILE NAME: 622472Flcas.dgn	PLOT DATE: 12/12/2019
PROJECT LEADER: B. BRESLEND	DRAWN BY: T. MATTHEWS
DESIGNED BY: T. MATTHEWS	CHECKED BY: C.LATHROP
PHASING TYPICAL SECTION 1	SHEET 41 OF 44

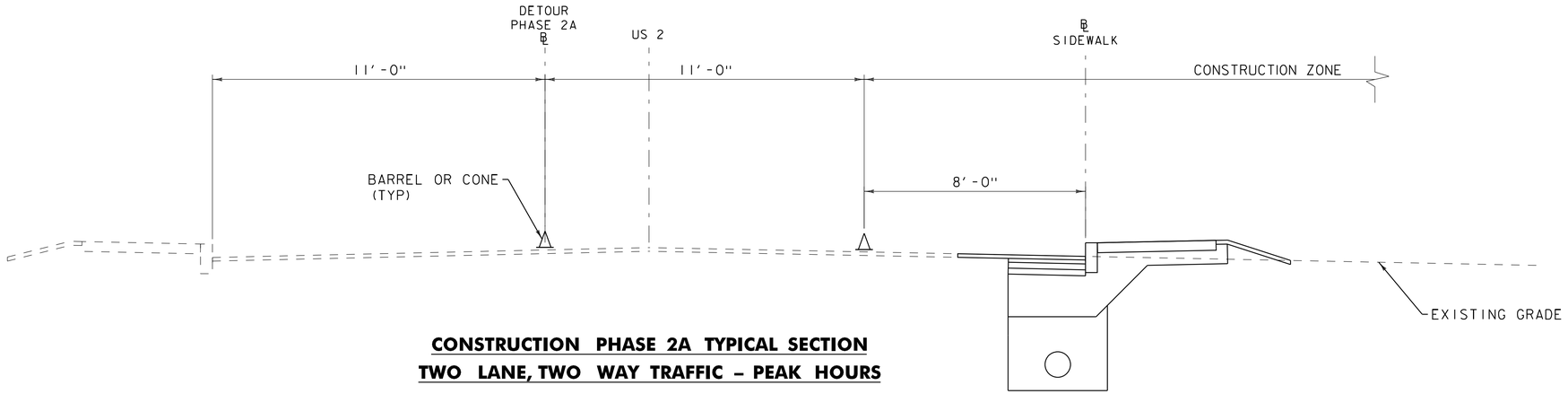
NOTE:

THE CONTRACTOR SHALL MAINTAIN TWO LANES OF TRAFFIC (ONE EASTBOUND, ONE WESTBOUND) THROUGH THE PROJECT AREA DURING THE PEAK HOURS DEFINED BELOW.

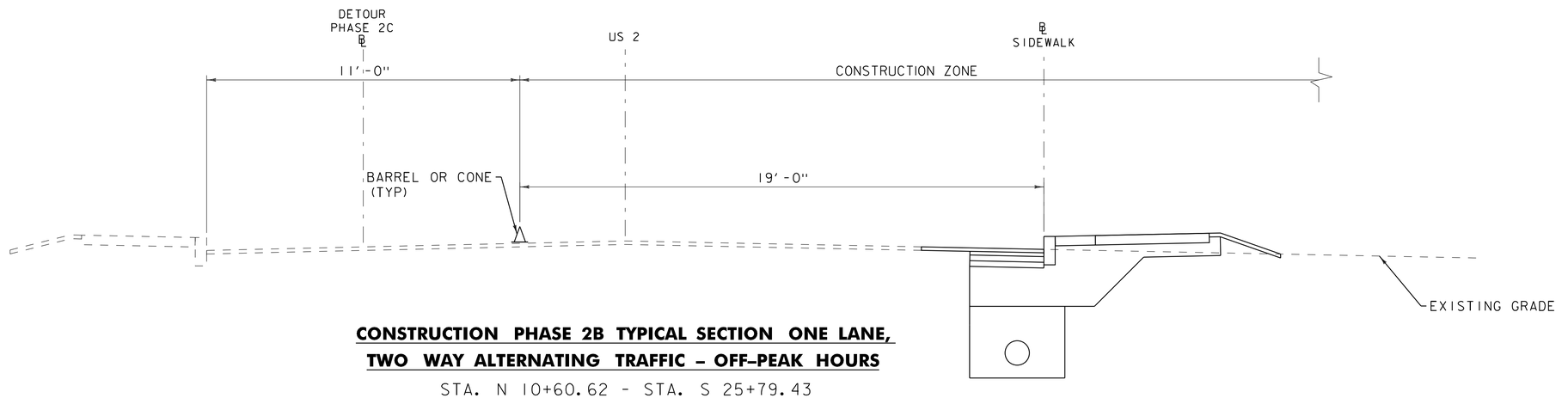
PEAK HOURS:

MONDAY THROUGH FRIDAY
7:00 AM TO 9:00 AM AND 3:00 PM TO 7:00 PM

SATURDAY
9:00 AM TO 6:00 PM



CONSTRUCTION PHASE 2A TYPICAL SECTION
TWO LANE, TWO WAY TRAFFIC – PEAK HOURS
STA. N 10+60.62 - STA. S 25+79.43



CONSTRUCTION PHASE 2B TYPICAL SECTION ONE LANE, TWO WAY ALTERNATING TRAFFIC – OFF-PEAK HOURS
STA. N 10+60.62 - STA. S 25+79.43

NOT TO SCALE

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.	
PROJECT NUMBER: STP BIKE (63)	
FILE NAME: 622472Ficas.dgn	PLOT DATE: 12/12/2019
PROJECT LEADER: B. BRESLEND	DRAWN BY: T. MATTHEWS
DESIGNED BY: T. MATTHEWS	CHECKED BY: C.LATHROP
PHASING TYPICAL SECTION 2	SHEET 42 OF 44

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 ITEM 641.11 "TRAFFIC CONTROL, ALL-INCLUSIVE", 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 - 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. THE CONTRACTOR SHOULD LEAVE NO LONGITUDINAL DROP-OFFS DURING THE OVERNIGHT HOURS. THEREFORE, THE FULL ROADWAY WIDTH SHOULD BE PAVED DURING THE DAILY WORK PERIOD. WHEN NECESSARY, DROP-OFF PROTECTION IN THESE AREAS SHALL CONFORM TO VAOT STANDARD T-36.

9. 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.

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

11. ANY EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID UNDER ITEM 641.11 (TRAFFIC CONTROL, ALL-INCLUSIVE).

12. THE CONTRACTOR SHALL SCHEDULE CONSTRUCTION OPERATIONS IN A MANNER SO AS TO MINIMIZE THE LENGTH OF TIME THAT NORMAL TRAFFIC FLOWS ARE DISTURBED.

13. 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/TENANT. 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.

14. THE CONTRACTOR SHALL MAINTAIN TWO LANES OF TRAFFIC (ONE EASTBOUND, ONE WESTBOUND) THROUGH THE PROJECT AREA DURING PEAK HOURS AS DEFINED IN THE PROJECT SPECIAL PROVISIONS, UNLESS APPROVED IN WRITING BY THE ENGINEER.

15. IT IS IMPORTANT THAT CYCLIST ROUTES ARE FREE OF RUTS, SAND, AND MUD TO PREVENT CYCLIST CRASHES. A FOUR(4) FOOT MINIMUM, FIVE(5) FOOT PREFERRED WIDTH SHOULD BE MAINTAINED THROUGH WORK ZONES TO ACCOMODATE BICYCLES WHERE PRACTICAL. IMPLEMENTATION AND EXECUTION OF THIS PRACTICE SHALL BE AT THE DISCRETION OF THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE UNDER ITEM 641.11 "TRAFFIC CONTROL, ALL-INCLUSIVE".

16. SEE VAOT STANDARD T-10 FOR ADDITIONAL SIGN PLACEMENT DETAILS.

17. 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.

18. 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.

19. 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.

20. ALL PERMANENT SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE COMPLETELY COVERED, THE PAYMENT FOR WHICH SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.11 "TRAFFIC CONTROL, ALL-INCLUSIVE".

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

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

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

24. ACCOMMODATIONS FOR POSTAL DRIVERS, NEWSPAPER ROUTES, DELIVERY SERVICES AND/OR TRASH SERVICES THAT ARE INTERRUPTED BY THE PROJECT OR DETOUR SHALL BE COORDINATED BY THE CONTRACTOR.

25. IF USED, ROADWAY FLAGGER PERSONNEL WILL BE USED TO HOLD AND RELEASE TRAFFIC. ROADWAY FLAGGERS WILL HAVE RECEIVED 4 HOURS OF TRAINING AND SHALL BE CERTIFIED PRIOR TO PERFORMING WORK ON THE PROJECT AND SHALL USE MUTCD COMPLIANT HIGH VISIBILITY APPAREL, SIGN PADDLES, AND TWO WAY RADIOS FOR COMMUNICATION.

26. ALTHOUGH THERE ARE NO KNOWN SCHOOL BUS STOP LOCATIONS LOCATED WITHIN THE PROJECT SITE, WHEN SCHOOL IS IN SESSION SCHOOL BUS STOP ACCOMMODATIONS ARE REQUIRED. LOCATIONS SHALL BE COORDINATED WITH THE LOCAL SCHOOL TRANSPORTATION COORDINATOR:

    FIRST STUDENT INC. JENNIFER MITCHELL (802)-229-4404 jennifer.mitchell@firstgroup.com

NIGHT WORK:

1. NIGHT WORK MAY BE REQUIRED TO PERFORM CERTAIN PHASES OF CONSTRUCTION. NIGHT WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 476 - "GUIDELINES FOR DESIGN AND OPERATION OF NIGHTTIME TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE AND CONSTRUCTION."

2. PRIOR TO ANY NIGHT WORK, A LIGHTING SYSTEM SHALL BE DEVELOPED AND PRESENTED TO THE ENGINEER FOR REVIEW AND ACCEPTANCE; PROVIDE TWO WEEKS IN ADVANCE. NO NIGHT WORK OR ACTIVITES SHALL BE PERFORMED WITHIN THE PROJECT LIMITS UNTIL THE LIGHTING SYSTEM HAS BEEN ACCEPTED AND IN PLACE ON THE PROJECT.

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.

PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472Fnotes.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: T. MATTHEWS
TRAFFIC CONTROL NOTES SHEET 1

PLOT DATE: 12/12/2019
DRAWN BY: T. MATTHEWS
CHECKED BY: C. LATHROP

PEDESTRIAN NOTES

1. THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) FOR REVIEW AND WRITTEN APPROVAL BY THE ENGINEER A MINIMUM OF THREE WEEKS BEFORE SUCH 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 CONTINUOUS WITH A MINIMUM OF 80 INCHES OVERHEAD CLEARANCE FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICTS WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.

5. WHEN TEMPORARY CROSSWALKS ARE UTILIZED FOR THE TPAR, TEMPORARY DETECTABLE 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 NIGHT TIME 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 REALIGNED SIDEWALKS OR OTHER PEDESTRIAN FACILITIES. PEDESTRIAN CHANNELIZING DEVICES SHALL INCLUDE A CONTINUOUSLY DETECTABLE BOTTOM AND TOP EDGE THROUGHOUT THE LENGTH OF THE FACILITY SUCH THAT IT CAN BE FOLLOWED BY PEDESTRIANS USING LONG CANES FOR GUIDANCE.

8. CHANNELIZING DEVICES ON BOTH SIDES OF THE TPAR SHALL INCLUDE CONTINUOUS SOLID TOP AND BOTTOM RAILS. THE TOP EDGE OF THE TOP RAIL SHALL BE BETWEEN 32 INCHES AND 38 INCHES ABOVE THE GROUND LEVEL. THE BOTTOM RAIL SHALL BE AT LEAST 6 INCHES WIDE, WITH THE BOTTOM EDGE OF THE 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 641.11 "TRAFFIC CONTROL, ALL-INCLUSIVE".

NIGHT WORK

1. NIGHT WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL COOPERATIVE HGIHWAY RESEARCH PROGRAM (NCHRP) REPORT 476 - "GUIDELINES FOR DESIGN AND OPERATION OF NIGHTTIME TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE AND CONSTRUCTION". REFER TO THE CONTRACT SPECIAL PROVISION FOR A COMPLETE LIST OF REQUIREMENTS FOR WORKING AT NIGHT. THE CONTRACTOR SHALL SUBMIT A LIGHTING PLAN, INCLUDING EQUIPMENT SPEC SHEETS, TO THE ENGINEER FOR REVIEW A MINIMUM OF 2 WEEKS PRIOR TO NIGHT WORK BEGINNING. ALL COSTS ASSOCIATED WITH THE DESIGN, APPROVAL AND IMPLEMENTATION OF THE LIGHTING SYSTEM WILL BE CONSIDERED INCIDENTAL TO CONTRACT ITEM 641.11 "TRAFFIC CONTROL, ALL-INCLUSIVE."

PROJECT NAME: EAST MONTPELIER VILLAGE SAFETY IMPROVEMENT PROJ.

PROJECT NUMBER: STP BIKE (63)

FILE NAME: 622472Fnotes.dgn
PROJECT LEADER: B. BRESLEND
DESIGNED BY: T. MATTHEWS
TRAFFIC CONTROL NOTES SHEET 2

PLOT DATE: 12/12/2019
DRAWN BY: T. MATTHEWS
CHECKED BY: C. LATHROP
SHEET 44 OF 44