SEE SHEET 2 FOR
INDEX OF SHEETS AND LIST OF STANDARDS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

RECORD PLANS

CONTRACTOR: ENGINEERS CONSTR., INC. – SO. BURLINGTON, VT

RESIDENT ENGINEER: MIKE BOOTH

CONSTRUCTION BEGAN: APRIL 18, 2014

CONSTRUCTION COMPLETE: SEPTEMBER 22, 2014

RECORD PLANS BY: MIKE BOOTH & CHIP PIERCE

I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

BY _____ RESIDENT ENGINEER

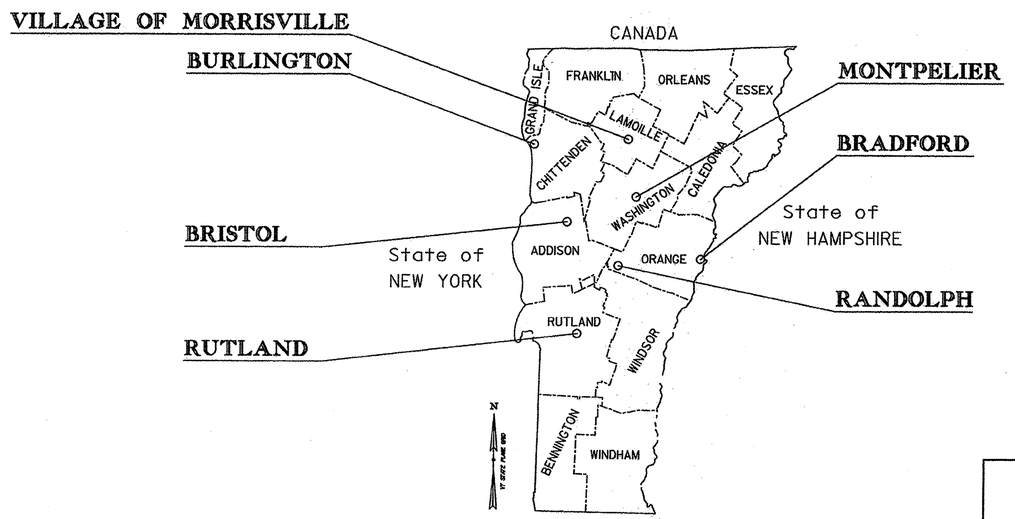
DATE 4-15-16

NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found at Central Files in the electronic archives.

PROPOSED IMPROVEMENTS
STATEWIDE ADA SIDEWALK
VARIOUS LOCATIONS WITHIN 7 MUNICIPALITIES

VARIOUS SITES LOCATED THROUGHOUT THE STATE OF VERMONT WITHIN 7 MUNICIPALITIES. THE MUNICIPALITIES INCLUDE BRADFORD, BRISTOL, BURLINGTON, MONTPELIER, VILLAGE OF MORRISVILLE, RANDOLPH AND RUTLAND.

THIS PROJECT INCLUDES SIDEWALK IMPROVEMENTS TO MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT 2010 STANDARDS FOR ACCESSIBLE DESIGN. IMPROVEMENTS INCLUDE SIDEWALK RECONSTRUCTION, HANDICAP RAMP RECONSTRUCTION, CURBING, PAVEMENT MARKINGS, INSTALLATION OF NEW SIGNS, AND PEDESTRIAN SIGNAL UPGRADES.



PROJECT LOCATIONS
NOT TO SCALE

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.

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

QUALITY ASSURANCE PROGRAM : LEVEL 3

SURVEYED BY : VERMONT SURVEY AND ENGINEERING
SURVEYED DATE : MAY-DECEMBER 2012

DATUM
VERTICAL NAVD 88 (GEOID09) FT
HORIZONTAL NAD 83 (CORS) sFT

STATE OF VERMONT
JONATHAN KAPLAN
NO. 7599
LICENSED PROFESSIONAL ENGINEER

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

DIRECTOR OF PROGRAM DEVELOPMENT
APPROVED _____ DATE 10-8-13

PROJECT MANAGER : JONATHAN KAPLAN, P.E.

PROJECT NAME : STATEWIDE
PROJECT NUMBER : STP SDWK(11)

SHEET 1 OF 53 SHEETS

INDEX OF SHEETS

1.	TITLE SHEET
2.	INDEX AND GENERAL NOTES SHEET
3.	VTRANS LEGEND SHEET
4-5.	QUANTITY SHEETS
6.	ITEM DETAIL AND DRAINAGE SHEET
7.	BRADFORD TIE SHEET
8-9.	BRADFORD ROADWAY LAYOUT SHEETS
10-11.	BRADFORD CURB TIE & GRADING SHEETS
12.	BRISTOL TIE SHEET
13.	BRISTOL ROADWAY LAYOUT SHEET
14.	BRISTOL CURB TIE & GRADING SHEET
15.	BURLINGTON TIE SHEET
16-18.	BURLINGTON ROADWAY LAYOUT SHEETS
19-21.	BURLINGTON CURB TIE & GRADING SHEETS
22.	MONTPELIER TIE SHEET
23.	MONTPELIER ROADWAY LAYOUT SHEET
24.	MONTPELIER CURB TIE & GRADING SHEET
25.	MORRISVILLE TIE SHEET
26-27.	MORRISVILLE ROADWAY LAYOUT SHEETS
28-29.	MORRISVILLE CURB TIE & GRADING SHEETS
30-31.	RANDOLPH TIE SHEETS
32-34.	RANDOLPH ROADWAY LAYOUT SHEETS
35-37.	RANDOLPH CURB TIE & GRADING SHEETS
38.	RUTLAND TIE SHEET
39.	RUTLAND ROADWAY LAYOUT SHEET
40.	RUTLAND CURB TIE & GRADING SHEET
41-43.	BLANK
44-46.	TRAFFIC SIGN SUMMARY SHEETS
47.	TEMPORARY MAINTENANCE OF PEDESTRIAN TRAFFIC NOTES
48.	TEMPORARY MAINTENANCE OF PEDESTRIAN TRAFFIC DETAILS
49.	MISCELLANEOUS DETAILS
50.	RANDOLPH RAMP SECTION AND ELEVATIONS
51.	SIDEWALK CLEARANCE AND CROSSWALK DETAILS
52.	TREE WELL AND BUS SHELTER DETAIL
53.	CONCRETE STEP WITH EXTERIOR HANDRAIL DETAIL

VTRANS STANDARDS FOR CONSTRUCTION

C-2A	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK ADJACENT TO CURB	10/14/05
C-2B	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK AND GREEN STRIP	10/14/05
C-3A	SIDEWALK RAMPS	03/10/08
C-3B	SIDEWALK RAMPS AND MEDIAN ISLANDS	03/10/08
C-10	CURBING	02/11/08
D-15	PRECAST REINFORCED CONCRETE CATCH BASIN W/ CAST IRON GRATE PRECAST REINFORCED CONCRETE MANHOLE W/ IRON COVER CAST IRON GRATE WITH FRAME, TYPE D CAST IRON GRATE WITH FRAME, TYPE E	06/01/94
D-16	DRAINAGE DETAILS INCLUDING DROP INLETS, IRON GRATE TYPE B&C, CONC END SECTIONS, ETC.	06/01/94
E-121	STANDARD SIGN PLACEMENT CONVENTIONAL ROAD	08/08/95
E-152	WARNING SIGN DETAILS	05/01/04
E-160	FLANGED CHANNEL STEEL SIGN POST	05/20/99
E-173	PULL BOXES AND JUNCTION BOXES	08/09/95
E-191	PAVEMENT MARKING DETAILS	02/01/99
E-193	PAVEMENT MARKING DETAILS	08/18/95
J-1	PROJECT AND BOUNDARY MARKERS	06/01/94
T-1	TRAFFIC CONTROL GENERAL NOTES	08/06/2012
T-30	CONSTRUCTION SIGN DETAILS	08/06/2012
T-31	CONSTRUCTION SIGN DETAILS	08/06/2012
T-45	SQUARE TUBE SIGN POST AND ANCHOR	01/02/2013

GENERAL NOTES:

1. MINIMUM CLEAR PATH ON ALL SIDEWALKS SHALL BE 4'-0" EXCLUDING THE SURFACE OF THE CURB.

2. CONTRACTOR SHALL VERIFY LOCATION OF ALL OBJECTS (SIGNS, POLES, ETC.,) TO BE SET WITHIN SIDEWALK PRIOR TO FINAL PLACEMENT TO PROVIDE A MINIMUM CLEAR PATH OF 4'-0". CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY LOCATION WHICH CANNOT MEET THE CLEARANCE REQUIREMENTS.

3. ALL UTILITY STRUCTURES, INCLUDING BUT NOT LIMITED TO MANHOLES, CATCH BASINS, GATE BOXES, AND HYDRANTS SHALL BE RETAINED UNLESS NOTED OTHERWISE.

4. ALL TRAFFIC SIGNS SHALL BE RETAINED UNLESS NOTED OTHERWISE.

5. NO SEPARATE PAYMENT WILL BE MADE FOR SAWCUTTING. SAWCUTTING SHALL BE CONSIDERED INCIDENTAL TO THE ITEM NECESSARY TO COMPLETE THE WORK. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO ITEM 203.16, SOLID ROCK EXCAVATION, ITEM 616.21, VERTICAL GRANITE CURB, ITEM 616.26, PRECAST REINFORCED CONCRETE CURB TYPE B, ITEM 616.40, REMOVING AND RESETTING CURB, ITEM 616.41, REMOVAL OF EXISTING CURB, ITEM 604.20, PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE, ITEM 678.23, WIRED CONDUIT AND ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES).

6. ALL DETECTABLE WARNING PANELS SHALL BE CAST IRON.

7. ALL UTILITIES HAVE BEEN PLOTTED TO QUALITY LEVEL "C" AND "D" (SEE BELOW). THE CONTRACTOR SHALL NOTIFY DIGSAFE PRIOR TO COMMENCING EXCAVATION ACTIVITIES. SEE THE UTILITY SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

8. MEASUREMENT ON CURB TIE AND GRADING PLANS TO EXISTING LIGHT POLES, TREES, SUPPORTS AND SIGNS ARE FROM THE CENTER OF THE OBJECT. THE MEASUREMENTS ARE APPROXIMATE ONLY.

9. PROPOSED GRADES HAVE BEEN SHOWN ON THE CURB TIE AND GRADING PLANS WHERE EXTRA GRADING INFORMATION IS REQUIRED. THE CONTRACTOR SHALL USE ALL PERTINENT VTRANS STANDARD DETAILS AND DETAILS INCLUDED IN THIS PLAN SET WHERE NO DETAILED GRADING INFORMATION HAS BEEN PROVIDED. CROSS SLOPES SHALL NOT EXCEED 1.5%. RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 7.5%. THE CONTRACTOR SHALL MATCH EXISTING GRADES AT ALL LIMITS OF WORK.

10. THE CONTRACTOR SHALL FURNISH TYPE IV BITUMINOUS CONCRETE PAVEMENT FOR ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES) UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

UTILITY QUALITY LEVEL INFORMATION INDEX (SEE ASCE/CI 38-02):

UTILITY QUALITY LEVEL A:
PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE (OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT. MINIMALLY INTRUSIVE EXCAVATION EQUIPMENT IS TYPICALLY USED TO MINIMIZE THE POTENTIAL FOR UTILITY DAMAGE. A PRECISE HORIZONTAL AND VERTICAL LOCATION, AS WELL AS OTHER UTILITY ATTRIBUTES, IS SHOWN ON PLAN DOCUMENTS. ACCURACY IS TYPICALLY SET TO 0.05 FEET (15-MM) VERTICAL AND TO APPLICABLE HORIZONTAL SURVEY AND MAPPING ACCURACY AS DEFINED OR EXPECTED BY THE PROJECT OWNER. INFORMATION IS ONLY VALID WITHIN THE VISIBLE LIMITS OF THE TEST HOLE.

UTILITY QUALITY LEVEL B:
INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. QUALITY LEVEL B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS.

UTILITY QUALITY LEVEL C:
INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION.

UTILITY QUALITY LEVEL D:
INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.

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.

PROJECT SPECIFIC LEGEND

CODE	DESCRIPTION
	DETECTABLE WARNING SURFACES
(TYP)	TYPICAL
MAX	MAXIMUM
MIN	MINIMUM
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
RET	RETAIN
R&S	REMOVE AND SALVAGE
R	REMOVE
N	NEW
	EXISTING MAST ARM
CLR	CLEAR
EXP. JT.	EXPANSION JOINT
	PAVEMENT REGRADING
123.45	PROPOSED SPOT GRADE
123.4	EXISTING SPOT GRADE
BC 123.45	PROPOSED GRADE AT BOTTOM OF CURB
TC 123.45	PROPOSED GRADE AT TOP OF CURB
	FLASHING RED LIGHT (OVERHEAD)

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

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

COMMON TOPOGRAPHIC POINT SYMBOLS

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

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

PROPOSED GEOMETRY CODES

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

UTILITY SYMBOLOGY

UNDERGROUND UTILITIES

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

ABOVE GROUND UTILITIES (AERIAL)

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

PROJECT CONSTRUCTION SYMBOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOGY

CZ	CLEAR ZONE
	PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

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

CONVENTIONAL BOUNDARY 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
P L	PROPERTY LINE (P/L)
SR	SLOPE RIGHTS
6F	6F PROPERTY BOUNDARY
4F	4F PROPERTY BOUNDARY
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
T&E	THREATENED & ENDANGERED SPECIES
HAZ	HAZARDOUS WASTE AREA
AG	AGRICULTURAL LAND
HABITAT	FISH & WILDLIFE HABITAT
FLOOD PLAIN	FLOOD PLAIN
OHW	ORDINARY HIGH WATER (OHW)
	STORM WATER
	USDA FOREST SERVICE LANDS
	WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC

ARCH	ARCHEOLOGICAL BOUNDARY
HISTORIC DIST	HISTORIC DISTRICT BOUNDARY
HISTORIC	HISTORIC AREA
H	HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC 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

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11-fil61gnd.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
VTRANS LEGEND SHEET

PLOT DATE: 10/9/2013
DRAWN BY: S. MUSTO
CHECKED BY: E. ATKINS
SHEET 3 OF 53

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES		TOTALS		DESCRIPTIONS			
ROADWAY	FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND
1		1		LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10	-
0.1		0.1		ACRE	THINNING AND TRIMMING	201.30	-
375		375		CY	COMMON EXCAVATION	203.15	25
330		330		CY	SOLID ROCK EXCAVATION	203.16	8
15		15		CY	TRENCH EXCAVATION OF EARTH	204.20	2
12		12		CY	TRENCH EXCAVATION OF ROCK	204.21	1.9
1		1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-
40		40		CY	STRUCTURE EXCAVATION	204.25	5.1
42		42		CY	GRANULAR BACKFILL FOR STRUCTURES	204.30	2
20		20		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	0.7
350		350		CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	11
1		1		TON	AGGREGATE SHOULDERS	402.12	0.7
2.5		2.5		CWT	EMULSIFIED ASPHALT	404.65	0.5
1		1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-
45		45		CY	CONCRETE, HIGH PERFORMANCE CLASS B	501.34	1.9
460		460		LB	REINFORCING STEEL, LEVEL I	507.11	10
10		10		LF	24" PCCSP .064 (2-2/3 X 1/2)	601.0425	2
2		2		EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE	604.20	-
2		2		EACH	CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES	604.40	-
1		1		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	-
1		1		EACH	CAST IRON COVER WITH FRAME	604.55	-
800		800		LF	VERTICAL GRANITE CURB	616.21	26
750		750		LF	PRECAST REINFORCED CONCRETE CURB, TYPE B	616.26	17
175		175		LF	REMOVING AND RESETTING CURB	616.40	18
1300		1300		LF	REMOVAL OF EXISTING CURB	616.41	58
1590		1590		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.10	35
190		190		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH	618.11	7
525		525		SF	DETECTABLE WARNING SURFACE	618.30	13
1		1		EACH	BOUNDARY MARKERS	619.10	-
3		3		EACH	ADJUST ELEVATION OF VALVE BOX	629.20	-
100		100		HR	UNIFORMED TRAFFIC OFFICERS	630.10	-
300		300		HR	FLAGGERS	630.15	-
	1	1		LS	TESTING EQUIPMENT, CONCRETE	631.16	-
	1	1		LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-
1		1		LS	MOBILIZATION/DEMOBILIZATION	635.11	-
1		1		LS	TRAFFIC CONTROL	641.10	-
90		90		DAY	PORTABLE CHANGEABLE MESSAGE SIGN RENTAL	641.17	-
1300		1300		LF	DURABLE 4 INCH WHITE LINE	646.400	32
200		200		LF	DURABLE 24 INCH STOP BAR	646.480	49
425		425		LF	DURABLE CROSSWALK MARKING	646.500	23

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
COMMON EXCAVATION		
67	CY	BRADFORD
37	CY	BRISTOL
57	CY	BURLINGTON
25	CY	MONTPELIER
81	CY	MORRISVILLE
62	CY	RANDOLPH
21	CY	RUTLAND
25	CY	ROUNDING
375	CY	TOTAL
SOLID ROCK EXCAVATION		
67	CY	BRADFORD
33	CY	BRISTOL
38	CY	BURLINGTON
23	CY	MONTPELIER
67	CY	MORRISVILLE
76	CY	RANDOLPH
18	CY	RUTLAND
8	CY	ROUNDING
330	CY	TOTAL
TRENCH EXCAVATION OF EARTH		
13	CY	MONTPELIER
2	CY	ROUNDING
15	CY	TOTAL
GRANULAR BACKFILL FOR STRUCTURES		
2	CY	BURLINGTON
5	CY	MONTPELIER
33	CY	RANDOLPH
2	CY	ROUNDING
42	CY	TOTAL
SUBBASE OF DENSE GRADED CRUSHED STONE		
74	CY	BRADFORD
16	CY	BRISTOL
53	CY	BURLINGTON
31	CY	MONTPELIER
65	CY	MORRISVILLE
76	CY	RANDOLPH
24	CY	RUTLAND
11	CY	ROUNDING
350	CY	TOTAL
VERTICAL GRANITE CURB		
293	LF	BRADFORD
86	LF	BRISTOL
16	LF	BURLINGTON
144	LF	MONTPELIER
235	LF	RANDOLPH
26	LF	ROUNDING
800	LF	TOTAL
PRECAST REINFORCED CONCRETE CURB, TYPE B		
84	LF	BRISTOL
220	LF	BURLINGTON
264	LF	RANDOLPH
165	LF	RUTLAND
17	LF	ROUNDING
750	LF	TOTAL
REMOVING AND RESETTING CURB		
157	LF	MONTPELIER
18	LF	ROUNDING
175	LF	TOTAL

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f116qty.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
QUANTITY SHEET #1

PLOT DATE: 10/9/2013
DRAWN BY: S. MUSTO
CHECKED BY: A. ACHARYA
SHEET 4 OF 53

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES		TOTALS		DESCRIPTIONS			
ROADWAY	FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND
4100		4100		SF	REMOVAL OF EXISTING PAVEMENT MARKINGS	646.85	48
28		28		LB	SEED	651.15	1.6
28		28		LB	SEED, WINTER RYE	651.17	1.6
120		120		LB	FERTILIZER	651.18	10
0.5		0.5		TON	AGRICULTURAL LIMESTONE	651.20	0.06
0.5		0.5		TON	HAY MULCH	651.25	0.06
120		120		CY	TOPSOIL	651.35	10.6
1		1		EACH	DECIDUOUS TREES (ACER FREEMANII)(B & B)(2"- 2 1/2" CAL.)	656.30	-
1		1		LS	TREE PROTECTION	656.85	-
107.5		107.5		SF	TRAFFIC SIGNS, TYPE A	675.20	-
49		49		LF	FLANGED CHANNEL SIGN POST	675.301	-
194.25		194.25		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	-
7		7		EACH	REMOVING SIGNS	675.50	-
7		7		EACH	ERECTING SALVAGED SIGNS	675.60	-
30		30		LF	WIRED CONDUIT (2")(PVC)	678.23	1.5
1		1		EACH	PULL BOX, STANDARD	678.25	-
4		4		CY	SPECIAL PROVISION (CU STRUCTURAL SOIL)	900.608	0.1
19		19		EACH	SPECIAL PROVISION (INLET PROTECTION, GEOTEXTILE FABRIC)	900.620	-
1		1		EACH	SPECIAL PROVISION (MODIFY EXISTING PEDESTRIAN SIGNAL SYSTEM, INTERSECTION)(BURLINGTON, SITE 3)	900.620	-
1		1		EACH	SPECIAL PROVISION (MODIFY EXISTING PEDESTRIAN SIGNAL SYSTEM, INTERSECTION)(BURLINGTON, SITE 6)	900.620	-
60		60		LF	SPECIAL PROVISION (METAL HAND RAILING)	900.640	6
1		1		LU	SPECIAL PROVISION (CONCRETE STEPS WITH HANDRAIL EXTENSIONS)	900.645	-
1		1		LS	SPECIAL PROVISION (MAINTENANCE OF PEDESTRIAN TRAFFIC)	900.645	-
1		1		LS	SPECIAL PROVISION (REMOVAL OF EXISTING STRUCTURAL RAMP)	900.645	-
1		1		LS	SPECIAL PROVISION (REMOVE AND RESET BUS SHELTER)	900.645	-
230		230		SF	SPECIAL PROVISION (CONCRETE PAVER STRIP)	900.670	4
80		80		SF	SPECIAL PROVISION (PERMEABLE PAVER TREE WELL)	900.670	7
100		100		SF	SPECIAL PROVISION (REMOVE AND RESET BRICK PAVERS)	900.670	4
500		500		SY	SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)	900.675	17
10		10		SY	SPECIAL PROVISION (STAMPED CONCRETE)	900.675	7

DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS
PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH		
362	SY	BRADFORD
67	SY	BRISTOL
260	SY	BURLINGTON
146	SY	MONTPELIER
387	SY	MORRISVILLE
205	SY	RANDOLPH
128	SY	RUTLAND
35	SY	ROUNDING
1590	SY	TOTAL
PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH		
50	SY	BRADFORD
39	SY	BURLINGTON
11	SY	MONTPELIER
83	SY	RANDOLPH
7	SY	ROUNDING
190	SY	TOTAL

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f116qty.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
QUANTITY SHEET #2

PLOT DATE: 10/9/2013
DRAWN BY: S. MUSTO
CHECKED BY: A. ACHARYA
SHEET 5 OF 53

STATE OF VERMONT
AGENCY OF TRANSPORTATION

ITEM DETAIL AND DRAINAGE SHEET

STATION	STATION	POS.	ASKEW	INLET/OUTLET TYPE		PIPE		ALLOWABLE OPTIONS				PIPE ELBOW	ES	CB	MH	DEPTH DI	CONC CLASS B	REINF STEEL	DI GRATE	MANHOLE COVER	CRM	TRENCH EXCAVATION		GRAN BKFILL STRUCT	EROS MATT	STONE FILL		MARKER POSTS		REMARKS
				INLET	OUTLET	D	L	RCP	CAAP	CPEP	PCCSP											EARTH	ROCK			CY	TYPE	LT	RT	
			NO. DEG.			IN	FT	CLASS	TH	SL	TH	NO. DEG.	EA	EA	EA	FT	CY	LBS	TYPE	EA	CY	CY	CY	CY	SY	CY		EA	EA	
EXISTING DRAINAGE																														
MONTPELIER																														
1 5+80.0	5+37.6	LT		PIPE	CB																									RETAIN PIPE.
2 5+37.6	1+28.2	LT-LT		CB	CB																									RETAIN PIPE. REMOVE AND DISPOSE EXISTING CB. CONNECT NEW CB TO EXISTING.
3 1+28.2	1+58.9	LT-RT		CB	MH																									RETAIN PIPE. CONNECT NEW CB TO EXISTING PIPE.
4 1+28.7	1+58.9	RT		CB	MH																									RETAIN PIPE.
5 1+90.9	1+58.9	RT		CB	MH																									RETAIN PIPE.
6 2+02.2	1+74.4	RT		CB	CB																									RETAIN PIPE. CONVERT CB TO MANHOLE.
7 1+58.9	10+61.5	RT-LT		MH	PIPE																									RETAIN PIPE.
PROPOSED DRAINAGE																														
MONTPELIER - ELM STREET																														
1 1+28.2	1+31.5	LT		PIPE	CB	24	4				0.064*			1					D			6.5	5.0	2.8						5' DIAMETER PRECAST REINFORCED CONCRETE CATCH BASIN (1 GRATE). CONNECT NEW PIPE TO EXISTING PIPE.
2 1+28.2	1+34.0	LT		CB	PIPE	24	4				0.064*																			CONNECT TO NEW CB AND EXISTING PIPE.
3 1+92.6		LT		PIPE	PIPE									1					D			6.5	5.0	2.8						4' DIAMETER PRECAST REINFORCED CONCRETE CATCH BASIN (1 GRATE). CONNECT EXISTING PIPES TO NEW CB.
4 1+74.7	1+58.9	RT		CB	MH															1										REHAB CATCH BASIN. CONVERT TO MANHOLE. REMOVE AND DISPOSE CATCH BASIN FRAME AND GRATE AND REPLACE WITH NEW FRAME AND COVER.
TOTALS						24	8	PCCSP .064 (2-2/3 X 1/2)*						2					D=2	1		13.0	10.0	5.6						

*NOTE: PRIOR TO ORDERING THE NEW PIPE, THE CONTRACTOR SHALL FIELD VERIFY EXISTING PIPE MATERIAL. THE CONTRACTOR SHALL VERIFY WITH THE ENGINEER THAT THE NEW PIPE MATERIAL AND EXISTING PIPE MATIERAL ARE COMPATIBLE.

STEEL BEAM GUARDRAIL, GALVANIZED

BEGIN STATION	END STATION	POSITION LEFT FT	POSITION RIGHT FT	END TREATMENT LEFT FT	END TREATMENT RIGHT FT
TOTALS					

CURB

SEE ROADWAY LAYOUT SHEETS AND CURB TIE AND GRADING SHEETS FOR ADDITIONAL DETAILS

BEGIN STATION	END STATION	POSITION LEFT FT	POSITION RIGHT FT	END TREATMENT LEFT FT	END TREATMENT RIGHT FT
TOTALS					

UNDERDRAIN

BEGIN STATION	END STATION	POSITION	TYPE	DIA IN.	LENGTH FT	TRENCH EARTH CY.	TRENCH ROCK CY.	GRAN BKFILL CF	FB EA	MRK POST EA
TOTALS										

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f1161temdet.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
ITEM DETAIL AND DRAINAGE SHEET

PLOT DATE: 10/9/2013
DRAWN BY: A. SWEETMAN
CHECKED BY: A. ACHARYA
SHEET 6 OF 53

GPS CONTROL POINTS

BRADFORD CORS ARP

PID DJ8957

N = 549808.87
E = 1741884.52
ELLIP HEIGHT = 414.75

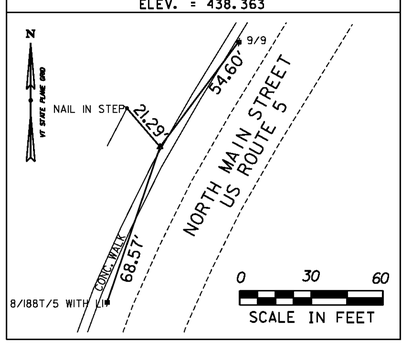
STATION IS A GPS CONTINOUSLY OPERATING REFERENCE STATION. STATION IS THE ANTENNA REFERENCE POINT OF THE GPS ANTENNA.
THE ANTENNA IS MOUNTED ON THE ROOF OF OXBOW HIGH SCHOOL, BRADFORD, VT. THE MONUMENT IS ATTACHED TO A TWO STORY CONCRETE/BRICK BUILDING WITH A 6 FT CONCRETE FOUNDATION BUILT IN 1972. THE MAST IS A 1.75 INCH DIA GALV PIPE THAT IS 108 INCHES LONG. THE MAST ATTACHED TO A STEEL MOUNTING FRAME WITH THREE ATTACHMENTS CONSISTING OF 3/8 INCH SS THROUGH BOLTS. THE MOUNTING FRAME IS ATTACHED TO THE BUILDING USING 8 ATTACHMENT POINTS. THE TOP 4 ARE 1/2 INCH SS BOLTS SECURED TO THE BRICK OR CONC WITH LEAD ANCHORS. THE BOTTOM 4 ATTACHMENTS ARE TROUGH BOLTED AND CONSIST OF 1/2 INCH SS THREADED ROD AND NUTS.

* DESCRIPTION PROVIDED BY VERMONT AGENCY OF TRANSPORTATION GEODETIC SURVEY UNIT

TRAVERSE TIES

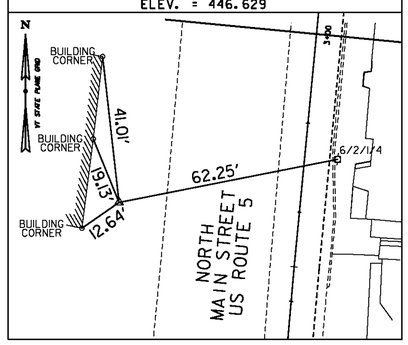
HVCTRL#61

NORTH = 545681.511
EAST = 1738387.386
ELEV. = 438.363



HVCTRL#62

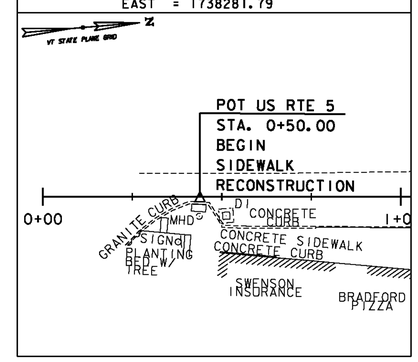
NORTH = 544899.188
EAST = 1738248.841
ELEV. = 446.629



ALIGNMENT TIES

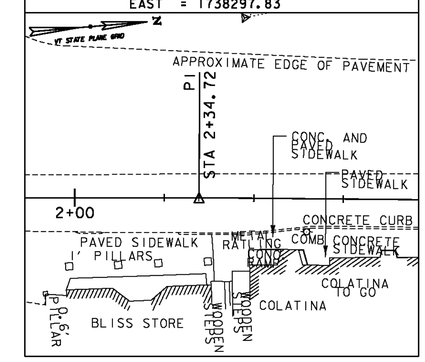
US ROUTE 5 POT STA. 0+50.00

NORTH = 544698.13
EAST = 1738281.79



US ROUTE 5 PI STA. 2+34.72

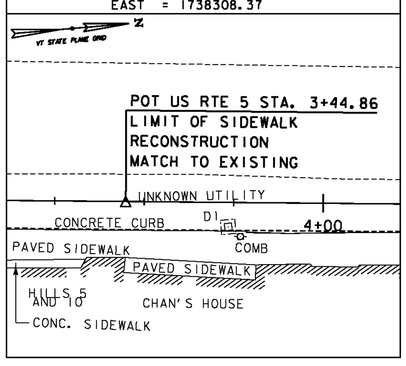
NORTH = 544882.15
EAST = 1738297.83



ALIGNMENT TIES

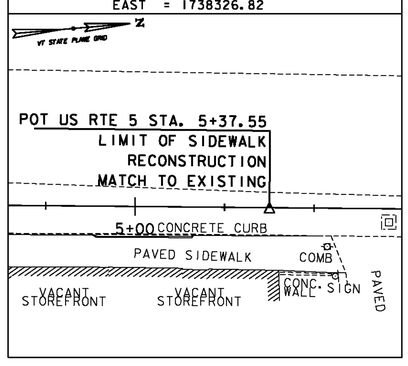
US ROUTE 5 POT STA. 3+44.86

NORTH = 544991.78
EAST = 1738308.37



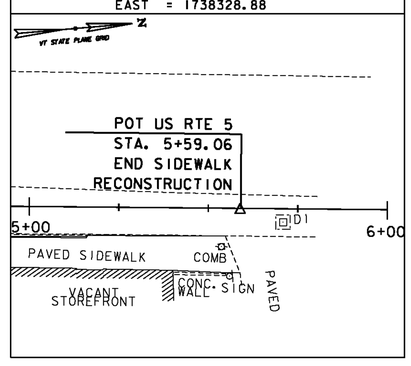
US ROUTE 5 POT STA. 5+37.55

NORTH = 545183.59
EAST = 1738326.82



US ROUTE 5 POT STA. 5+59.06

NORTH = 545205.00
EAST = 1738328.88



DATUM	
VERTICAL	NAVD 88(GEOID09) FT
HORIZONTAL	NAD 83(CORS) sFT
ADJUSTMENT	NONE

0 20 40
SCALE IN FEET

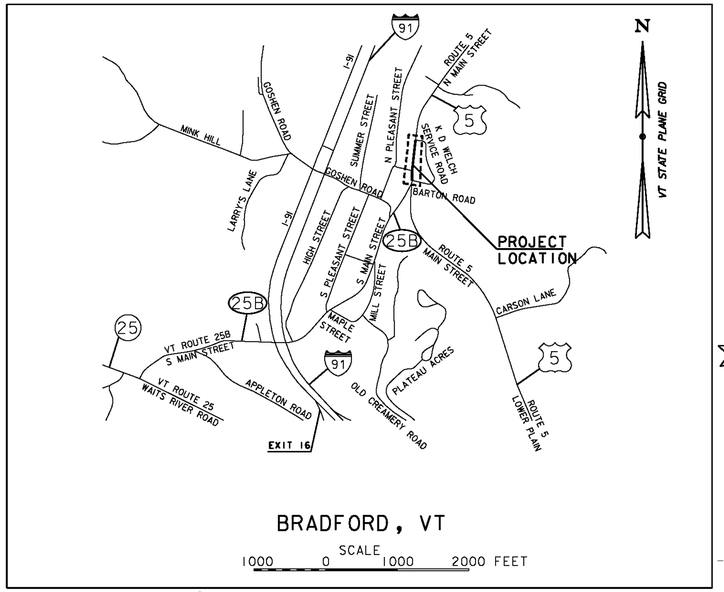
GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

BRADFORD

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f1161_Bradford.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
BRADFORD TIE SHEET

PLOT DATE: 10/9/2013
DRAWN BY: S. MUSTO
CHECKED BY: E. ATKINS
SHEET 7 OF 53



REMOVAL OF EXISTING SIDEWALK (SOLID ROCK EXCAVATION)
US RTE 5 0+50.0 - 3+00.0 RT

VERTICAL GRANITE CURB
US RTE 5 0+50.0 - 1+66.0 RT
US RTE 5 1+71.0 - 1+74.3 RT
US RTE 5 1+91.8 - 3+00.0 RT

REMOVAL OF EXISTING CURB
US RTE 5 0+50.0 - 1+66.0 RT
US RTE 5 1+91.8 - 3+00.0 RT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
US RTE 5 0+50.0 - 1+74.3 RT
US RTE 5 1+91.8 - 3+00.0 RT

PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH
US RTE 5 1+74.3 - 1+91.8 RT

5 INCH SIDEWALK RAMPS WITH DETECTABLE WARNING SURFACE
US RTE 5 1+68.5 RT (TYPE 5)

ADJUST ELEVATION OF VALVE BOX
US RTE 5 1+51.5 RT

DURABLE 4 INCH WHITE LINE
US RTE 5 0+52.9 - 1+35.6 RT/LT (PARKING)
US RTE 5 2+07.7 - 3+00.0 RT/LT (PARKING)
US RTE 5 1+37.1 - 1+51.7 RT/LT (GORE)
US RTE 5 1+91.5 - 2+06.0 RT/LT (GORE)

REMOVAL OF EXISTING PAVEMENT MARKINGS
US RTE 5 0+52.9 - 3+00.0 RT/LT

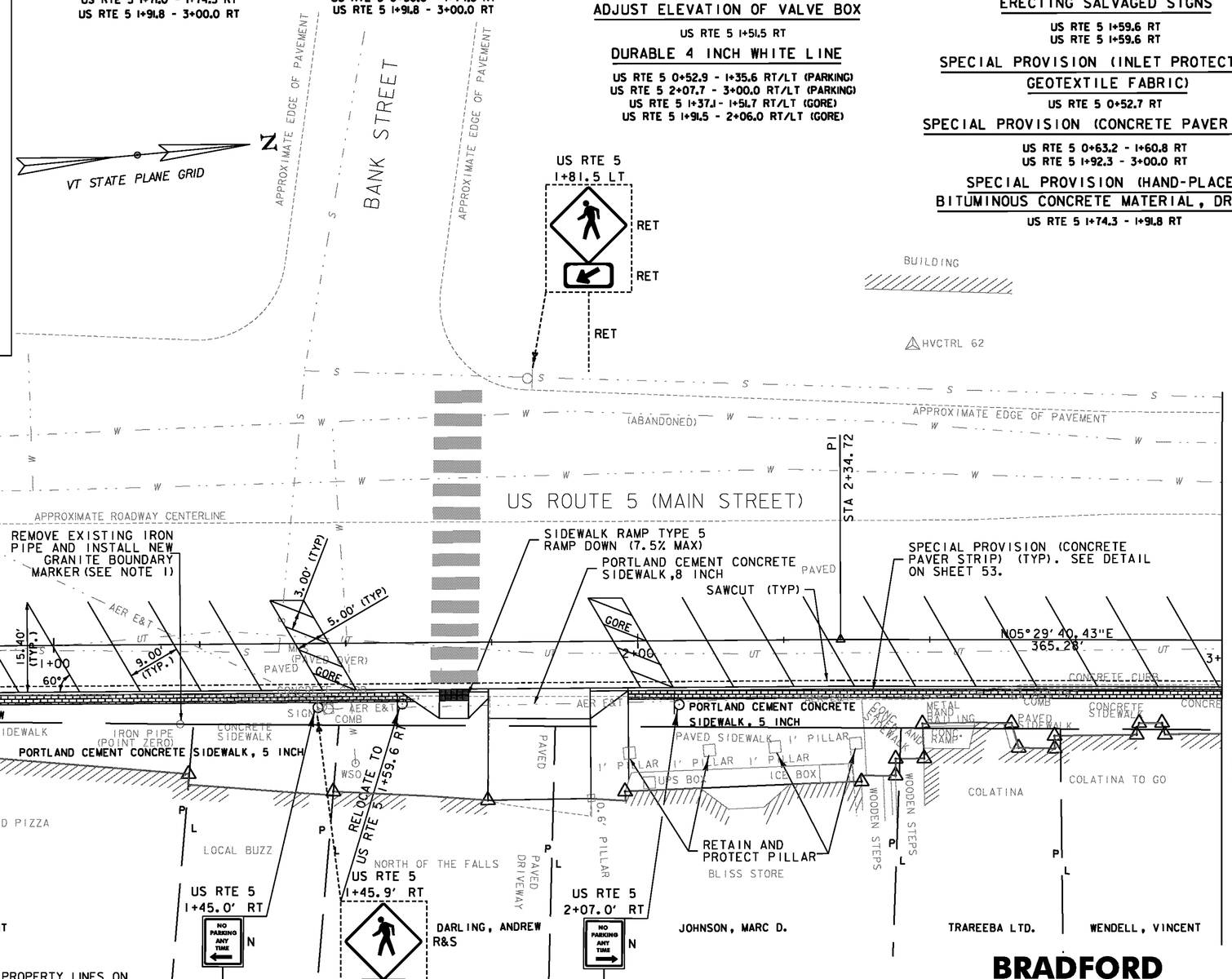
REMOVING SIGNS
US RTE 5 1+45.9 RT
US RTE 5 1+45.9 RT

ERECTING SALVAGED SIGNS
US RTE 5 1+59.6 RT
US RTE 5 1+59.6 RT

SPECIAL PROVISION (INLET PROTECTION, GEOTEXTILE FABRIC)
US RTE 5 0+52.7 RT

SPECIAL PROVISION (CONCRETE PAVER STRIP)
US RTE 5 0+63.2 - 1+60.8 RT
US RTE 5 1+92.3 - 3+00.0 RT

SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)
US RTE 5 1+74.3 - 1+91.8 RT



NOTES:

1. "POINT ZERO" IS THE LOCATION OF THE FORMER OAK TREE FROM WHICH ALL PROPERTY LINES ON MAIN STREET HAVE BEEN BASED ON. THE CONTRACTOR SHALL REMOVE AND RESET THE PROPERTY MARKER IN ITS EXISTING LOCATION. WORK SHALL COMPLY WITH STANDARD SPECIFICATIONS SECTION 619. - MARKERS.
   NORTHING=544768.229
   EASTING=1738301.592
   ELEV.=FLUSH WITH FINISHED GRADE

SEE LEGEND ON SHEET 3

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

BRADFORD

PROJECT NAME: STATEWIDE	
PROJECT NUMBER: STP SDWK(11)	
FILE NAME: z11f116bdr_bradford.dgn	PLOT DATE: 10/9/2013
PROJECT LEADER: E. ATKINS	DRAWN BY: T. BIGELOW
DESIGNED BY: T. BIGELOW	CHECKED BY: E. ATKINS
BRADFORD ROADWAY LAYOUT SHEET 1	SHEET 8 OF 53

REMOVAL OF EXISTING SIDEWALK (SOLID ROCK EXCAVATION)

US RTE 5 3+00.0 - 3+44.9 RT
US RTE 5 5+37.6 - 5+59.1RT

VERTICAL GRANITE CURB

US RTE 5 3+00.0 - 3+44.9 RT
US RTE 5 5+37.6 - 5+59.1RT

REMOVAL OF EXISTING CURB

US RTE 5 3+00.0 - 3+44.9 RT
US RTE 5 5+37.5 - 5+59.1RT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH

US RTE 5 3+00.0 - 3+44.9 RT
US RTE 5 5+37.6 - 5+59.1RT

5 INCH SIDEWALK RAMPS WITH DETECTABLE WARNING SURFACE

US RTE 5 5+59.1RT (TYPE I)

DURABLE 4 INCH WHITE LINE

US RTE 5 3+00.0 - 5+38.5 (PARKING)

REMOVAL OF EXISTING PAVEMENT MARKINGS

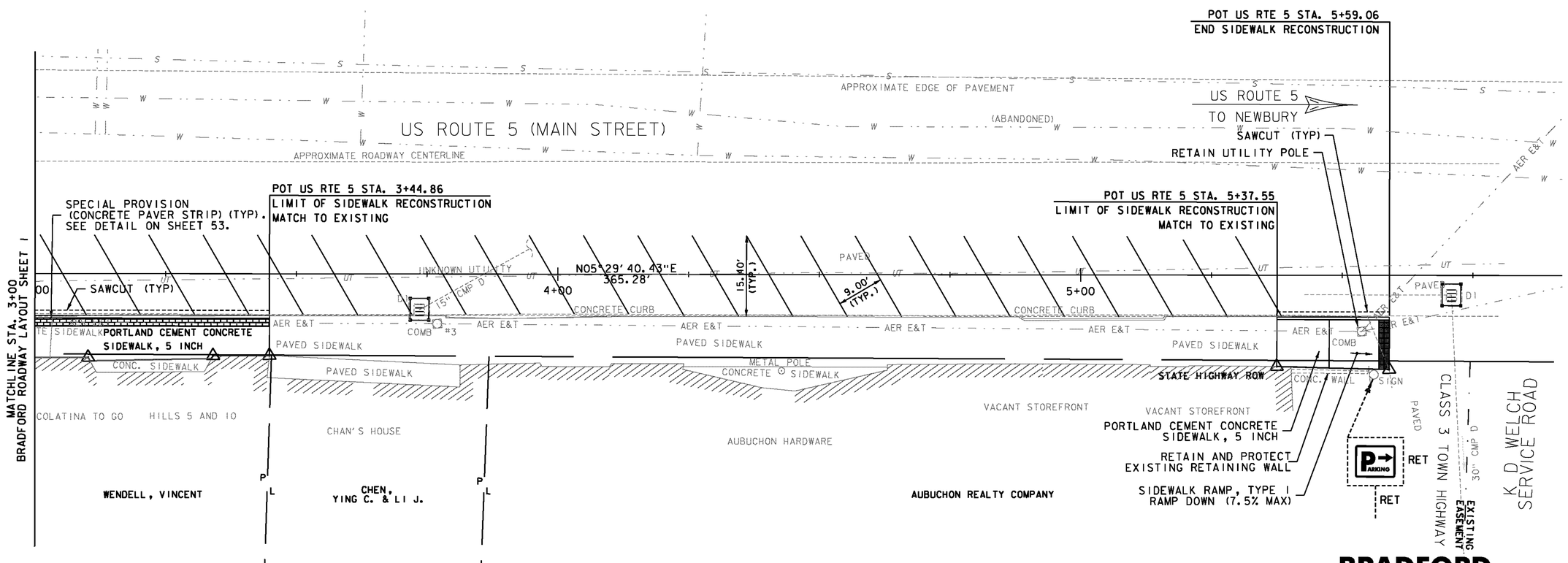
US RTE 5 3+00.0 - 5+38.5 RT/LT

SPECIAL PROVISION (INLET PROTECTION, GEOTEXTILE FABRIC)

US RTE 5 3+73.5 RT
US RTE 5 5+70.9 RT

SPECIAL PROVISION (CONCRETE PAVER STRIP)

US RTE 5 3+00.0 - 3+44.9 RT



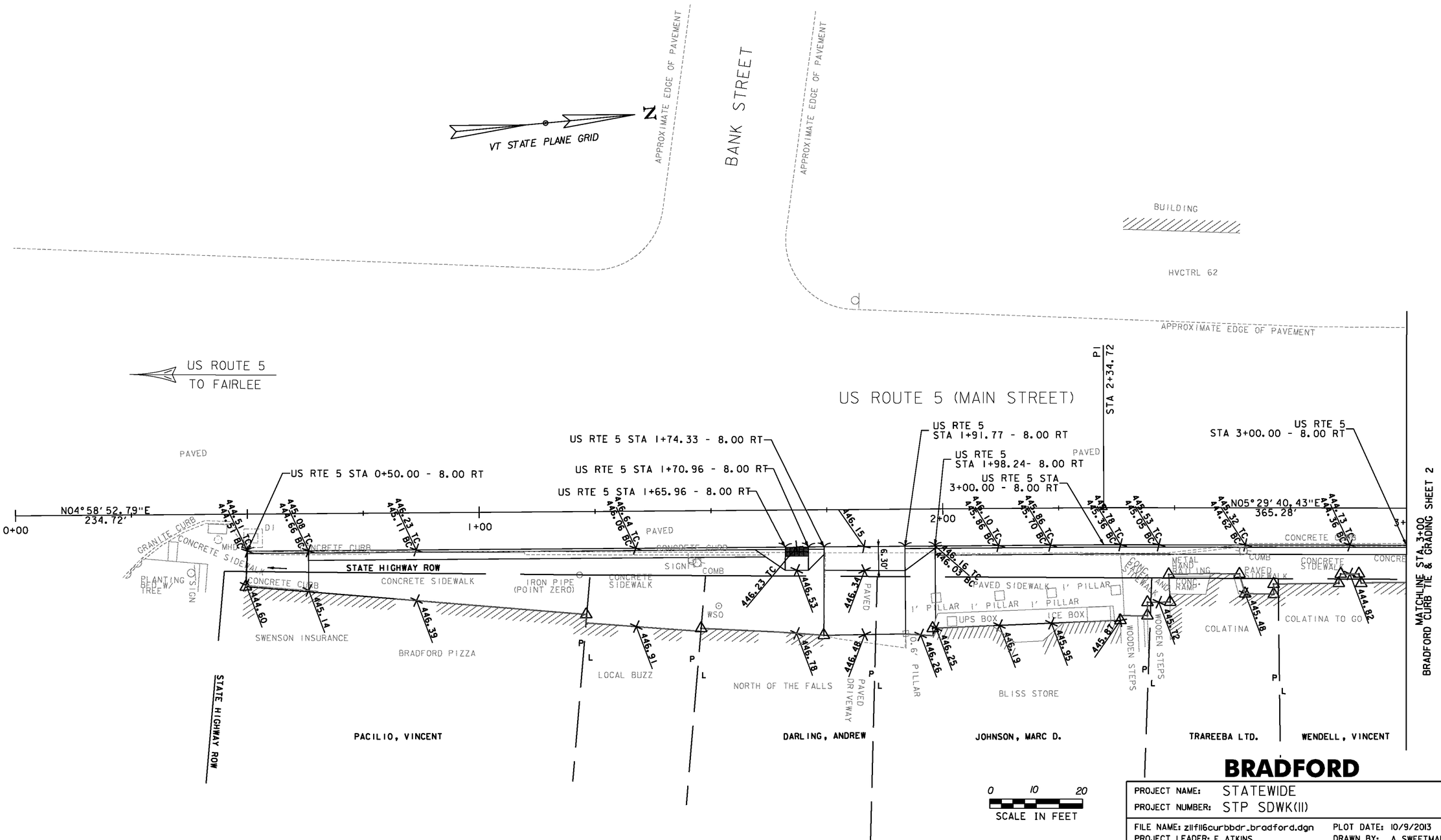
BRADFORD

0 10 20
SCALE IN FEET

SEE LEGEND ON SHEET 3

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

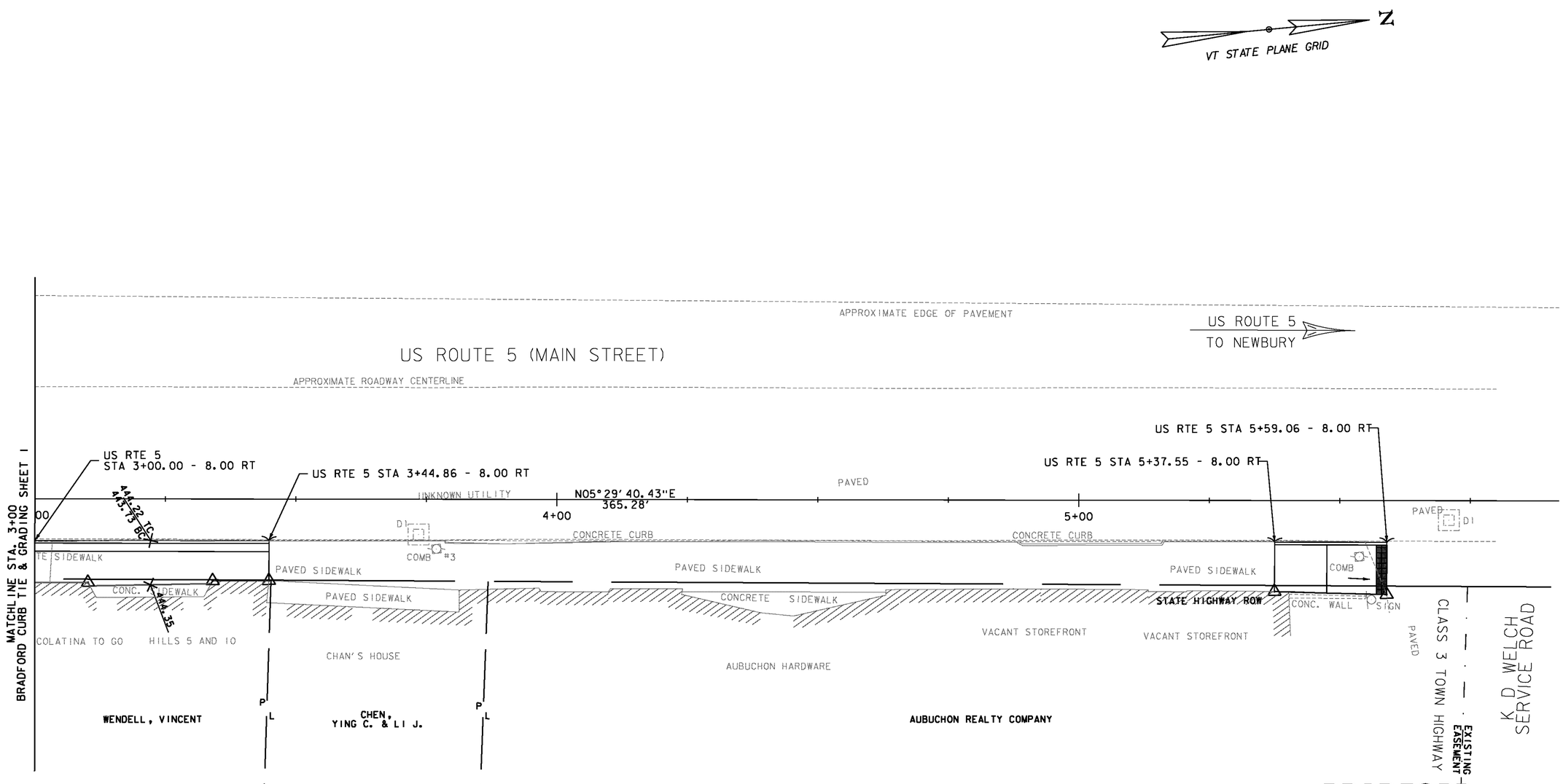
PROJECT NAME: STATEWIDE	
PROJECT NUMBER: STP SDWK(11)	
FILE NAME: z11f116bdr_bradford.dgn	PLOT DATE: 10/9/2013
PROJECT LEADER: E. ATKINS	DRAWN BY: T. BIGELOW
DESIGNED BY: T. BIGELOW	CHECKED BY: E. ATKINS
BRADFORD ROADWAY LAYOUT SHEET 2	SHEET 9 OF 53



BRADFORD

PROJECT NAME: STATEWIDE	
PROJECT NUMBER: STP SDWK(11)	
FILE NAME: z11f116curbbdr_bradford.dgn	PLOT DATE: 10/9/2013
PROJECT LEADER: E. ATKINS	DRAWN BY: A. SWEETMAN
DESIGNED BY: T. BIGELOW	CHECKED BY: E. ATKINS
BRADFORD CURB TIE & GRADING SHEET 1	SHEET 10 OF 53

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS



BRADFORD

0 10 20
SCALE IN FEET

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

PROJECT NAME: STATEWIDE	
PROJECT NUMBER: STP SDWK(11)	
FILE NAME: z11f116curbbdr_bradford.dgn	PLOT DATE: 10/9/2013
PROJECT LEADER: E. ATKINS	DRAWN BY: A. SWEETMAN
DESIGNED BY: T. BIGELOW	CHECKED BY: E. ATKINS
BRADFORD CURB TIE & GRADING SHEET 2	SHEET 11 OF 53

GPS CONTROL POINTS

MIDDLEBURY CORS ARP

PID DL2744

N = 546895.26
E = 1468689.89
ELLIP HEIGHT = 315.07

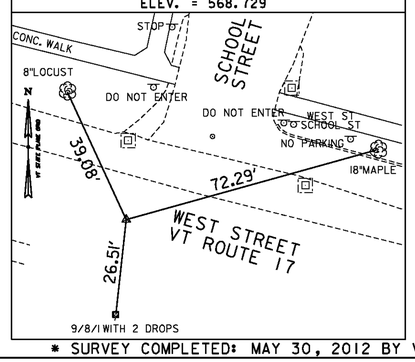
STATION IS A GPS CONTINOUSLY OPERATING REFERENCE STATION. STATION IS THE ANTENNA REFERENCE POINT OF THE GPS ANTENNA. THE ANTENNA IS MOUNTED ON THE ROOF OF MIDDLEBURY UNION MIDDLE SCHOOL, MIDDLEBURY, VT. THE MONUMENT IS ATTACHED TO A 3 STORY CONCRETE/BRICK BUILDING WITH A 10 FT CONCRETE FOUNDATION BUILT IN 1996. MAST IS A TWO INCH DIA GALV PIPE THAT IS 120 INCHES LONG AND HAS A SMALL CIRLULAR LEVELING DEVICE WELDED TO THE TOP. THE MAST IS WELDED TO 3 OUTRIGGERS AND MOUNTING PLATES ARE WELDED TO THE END OF EACH OUTRIGGER. EACH MOUNTING PLATE CONTAINS 4 ATTACHMENT POINTS CONSISTING OF 1/2 INCH DIA HOLES. ATTACHMENTS ARE EITHER MADE BY THROUGH BOLTING WITH WITH 1/2 INCH STAINLESS STEEL ROD, WASHERS, AND NUTS OR 1/2 INCH STAINLESS STEEL LAGS WITH LEAD ANCHORS. THE TOP PLATE IS SECURED WITH ONE THROUGH BOLT AND 3 ANCHORS. THE MIDDLE PLATE IS SECURED WITH 2 THROUGH BOLTS AND 2 ANCHORS. THE BOTTOM PLATE IS SECURED WITH 2 THROUGH BOLTS AND 2 ANCHORS.

* DESCRIPTION PROVIDED BY VERMONT AGENCY OF TRANSPORTATION GEODETIC SURVEY UNIT

TRAVERSE TIES

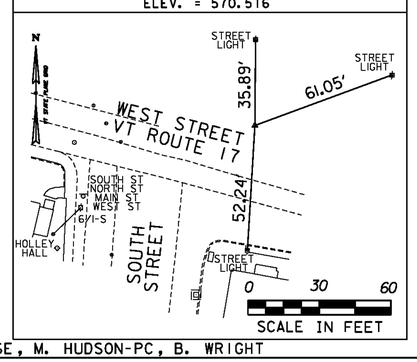
HVCTRL#11

NORTH = 595940.125
EAST = 1488015.169
ELEV. = 568.729



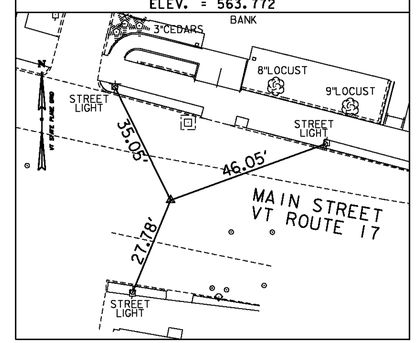
HVCTRL#12

NORTH = 595798.079
EAST = 1488533.657
ELEV. = 570.516



HVCTRL#3

NORTH = 595706.356
EAST = 1488909.250
ELEV. = 563.772



* SURVEY COMPLETED: MAY 30, 2012 BY VSE, M. HUDSON-PC, B. WRIGHT

DATUM

VERTICAL	NAVD 88(GEOID09) FT
HORIZONTAL	NAD 83(CORS) sFT
ADJUSTMENT	NONE

0 20 40
SCALE IN FEET

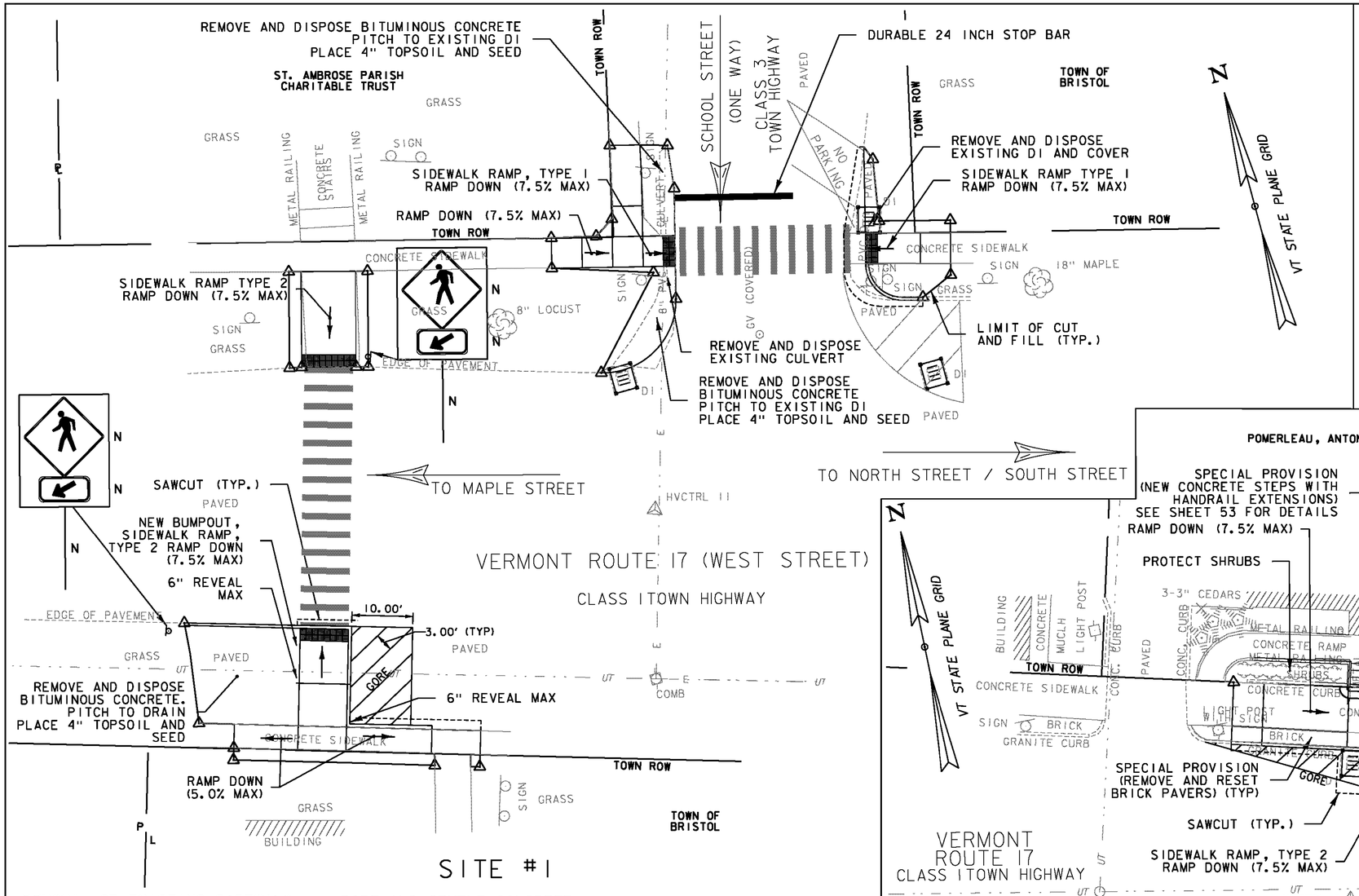
GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

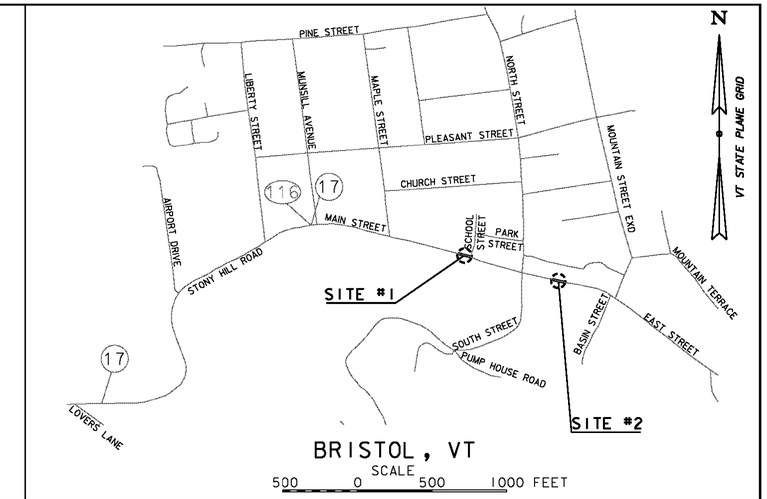
BRISTOL

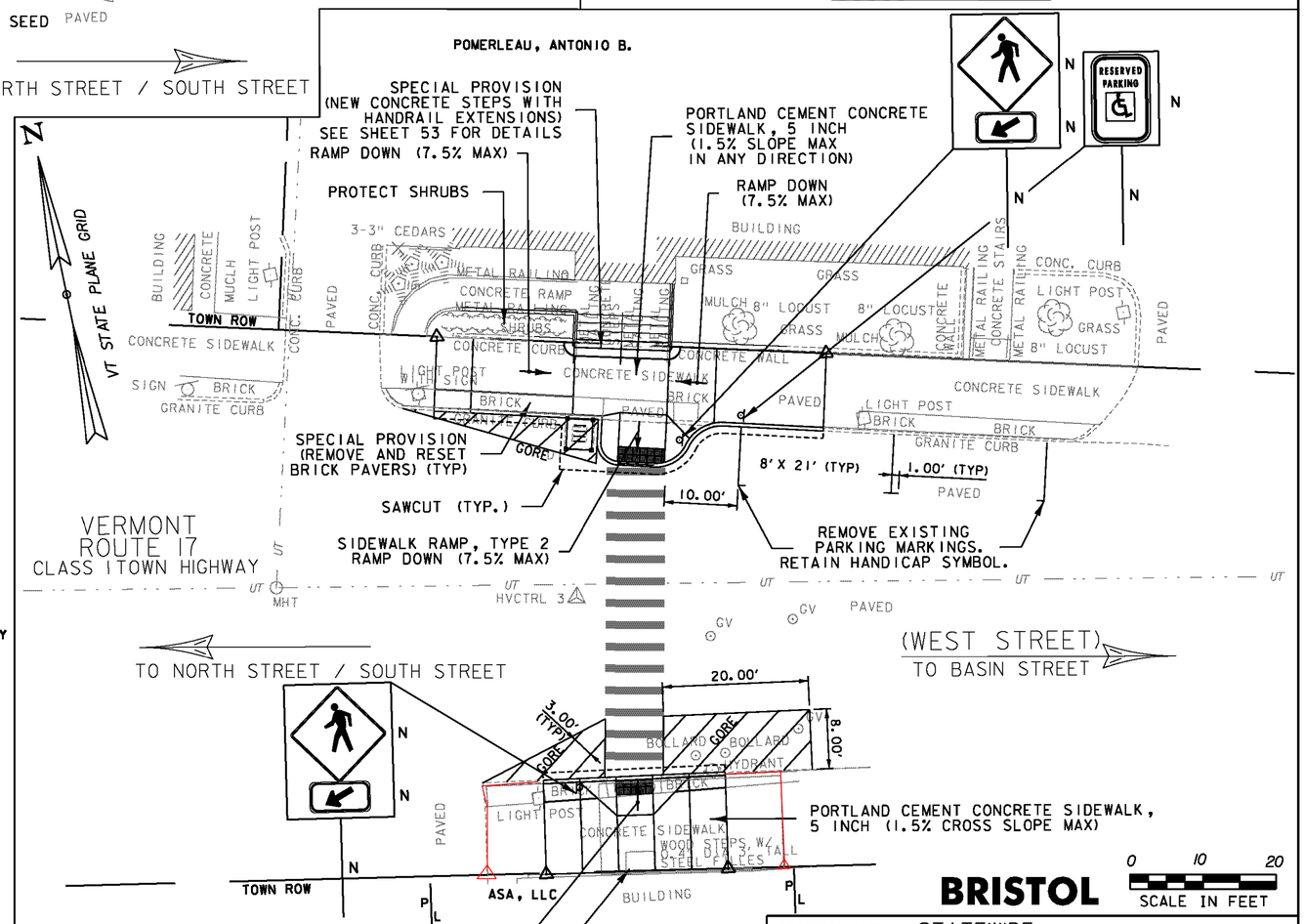
PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f1161_Bristol.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
BRISTOL TIE SHEET

PLOT DATE: 10/9/2013
DRAWN BY: S. MUSTO
CHECKED BY: E. ATKINS
SHEET 12 OF 53







REMOVAL OF EXISTING SIDEWALK (SOLID ROCK EXCAVATION)
SITE 1- WEST STREET - 78.89 SY
SITE 1- SCHOOL STREET - 39.42 SY
SITE 2 - WEST STREET - 102.73 SY

BITUMINOUS CONCRETE PAVEMENT
SITE 1- SCHOOL STREET - 5.43 SY

CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, MANHOLES
SITE 2 - WEST STREET - 1EACH

VERTICAL GRANITE CURB
SITE 2 - WEST STREET - 86 LF

PRECAST REINFORCED CONCRETE CURB, TYPE B
SITE 1- WEST STREET - 57 LF
SITE 1- SCHOOL STREET - 27 LF

REMOVAL OF EXISTING CURB
SITE 2 - WEST STREET - 61LF

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
SITE 1- WEST STREET - 47.70 SY
SITE 1- SCHOOL STREET - 27.21SY
SITE 2 - WEST STREET - 88.33 SY

5 INCH SIDEWALK RAMPS WITH DETECTABLE WARNING SURFACE
SITE 1- WEST STREET - 34 SF (TYPE 2)
SITE 1- SCHOOL STREET - 20 SF (TYPE 1)
SITE 2 - WEST STREET - 13 SF (TYPE 2)
SITE 2 - WEST STREET - 10 SF (TYPE 5)

DURABLE 4 INCH WHITE LINE
SITE 1- WEST STREET - 79.6 FT (GORE)
SITE 2 - WEST STREET - 197.6 FT (GORE)
SITE 2 - WEST STREET - 28.0 FT (PARKING)

DURABLE 24 INCH STOP BAR
SITE 1- SCHOOL STREET - 20 LF

REMOVAL OF EXISTING PAVEMENT MARKINGS
SITE 2 - WEST STREET - 12 SF

SEED
SITE 1- WEST STREET AND SCHOOL STREET - 80 SY

SPECIAL PROVISION (INLET PROTECTION, GEOTEXTILE FABRIC)
SITE 1- WEST STREET - 2 EACH
SITE 1- SCHOOL STREET - 1EACH
SITE 2 - WEST STREET - 1EACH

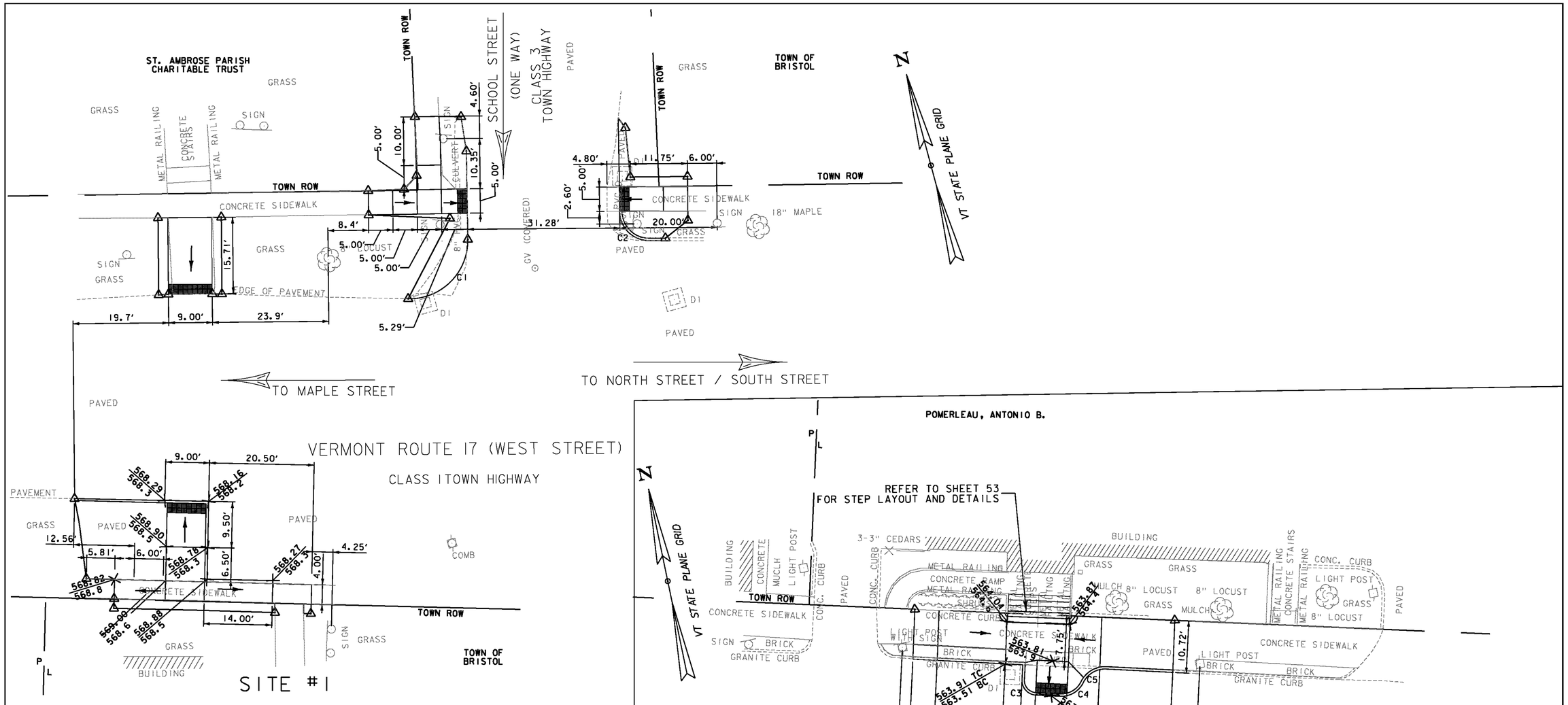
SPECIAL PROVISION (CONCRETE STEPS WITH HANDRAIL EXTENSIONS)
SITE 2 - WEST STREET - 1 EACH

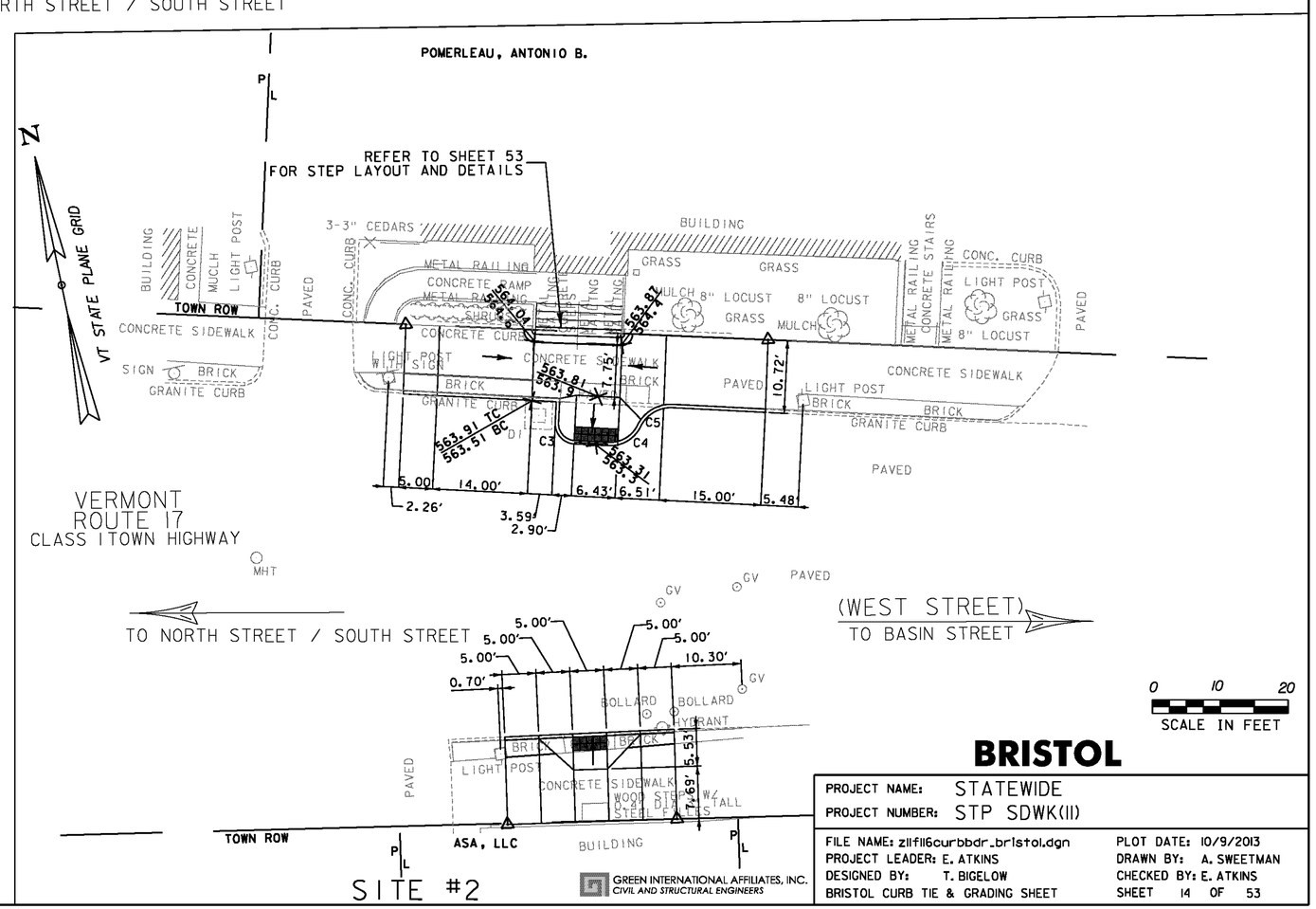
SPECIAL PROVISION (REMOVE AND RESET BRICK PAVERS)
SITE 2 - WEST STREET - 96 SF

BRISTOL

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

PROJECT NAME: STATEWIDE	
PROJECT NUMBER: STP SDWK(11)	
FILE NAME: z11f116bdr_bristol.dgn	PLOT DATE: 10/9/2013
PROJECT LEADER: E. ATKINS	DRAWN BY: N. BOSAN
DESIGNED BY: T. BIGELOW	CHECKED BY: E. ATKINS
BRISTOL ROADWAY LAYOUT SHEET	SHEET 13 OF 53





CURVE TABLE

LABEL	RADIUS (ft)	LENGTH (ft)
C1	12.00	19.28
C2	6.00	9.36
C3	3.00	4.71
C4	5.00	5.84
C5	5.00	5.84

0 10 20
SCALE IN FEET

BRISTOL

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f116curbbdr_bristol.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
BRISTOL CURB TIE & GRADING SHEET

PLOT DATE: 10/9/2013
DRAWN BY: A. SWEETMAN
CHECKED BY: E. ATKINS
SHEET 14 OF 53

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

GPS CONTROL POINTS

UVM COOLIDGE CORS ARP

PID DG9783

N = 718549.76
E = 1458233.61
ELLIP HEIGHT = 368.82

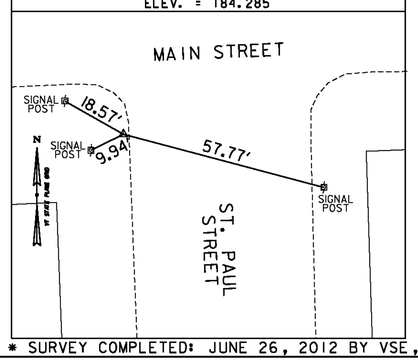
STATION IS A GPS CONTINOUSLY OPERATING REFERENCE STATION. STATION IS THE ANTENNA REFERENCE POINT OF THE GPS ANTENNA.
THE ANTENNA IS MOUNTED ON THE ROOF OF COOLIDGE HALL, ON THE REDSTONE CAMPUS OF THE UNIVERSITY OF VERMONT, BURLINGTON, VT.

* DESCRIPTION PROVIDED BY VERMONT AGENCY OF TRANSPORTATION GEODETIC SURVEY UNIT

TRAVERSE TIES

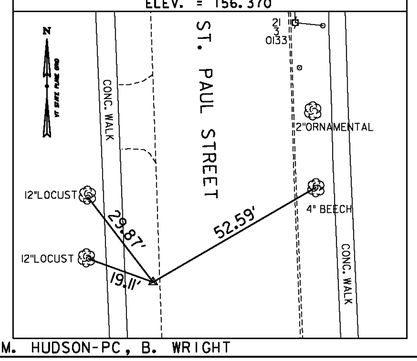
HVCTRL#7

NORTH = 720971.805
EAST = 1454024.288
ELEV. = 184.285



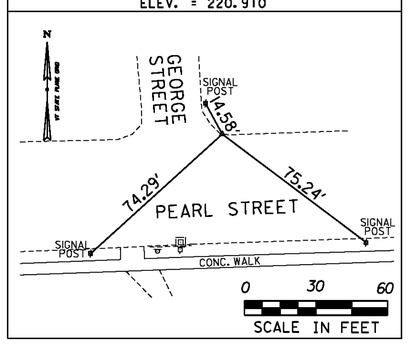
HVCTRL#8

NORTH = 720350.087
EAST = 1454054.010
ELEV. = 156.370



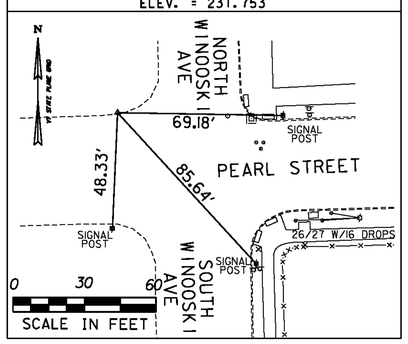
HVCTRL#81

NORTH = 722673.506
EAST = 1453808.724
ELEV. = 220.910



HVCTRL#82

NORTH = 722707.303
EAST = 1454754.336
ELEV. = 231.753

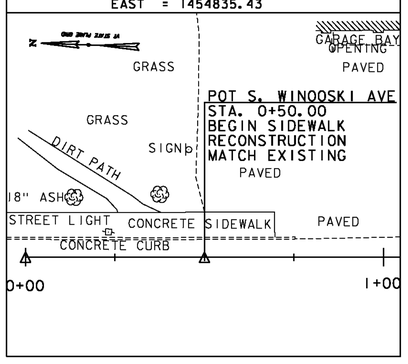


* SURVEY COMPLETED: JUNE 26, 2012 BY VSE, M. HUDSON-PC, B. WRIGHT

ALIGNMENT TIES

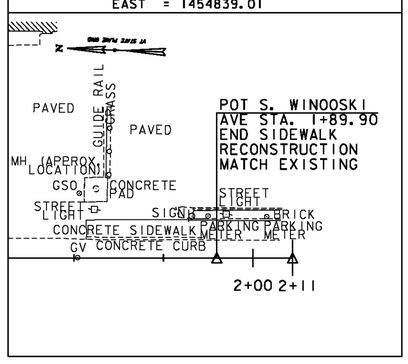
S. WINOOSKI AVENUE POT STA. 0+50.00

NORTH = 721318.25
EAST = 1454835.43



S. WINOOSKI AVENUE POT STA. 1+89.90

NORTH = 721178.40
EAST = 1454839.01



DATUM	
VERTICAL	NAVD 88(GEOID09) FT
HORIZONTAL	NAD 83(CORS) sFT
ADJUSTMENT	NONE

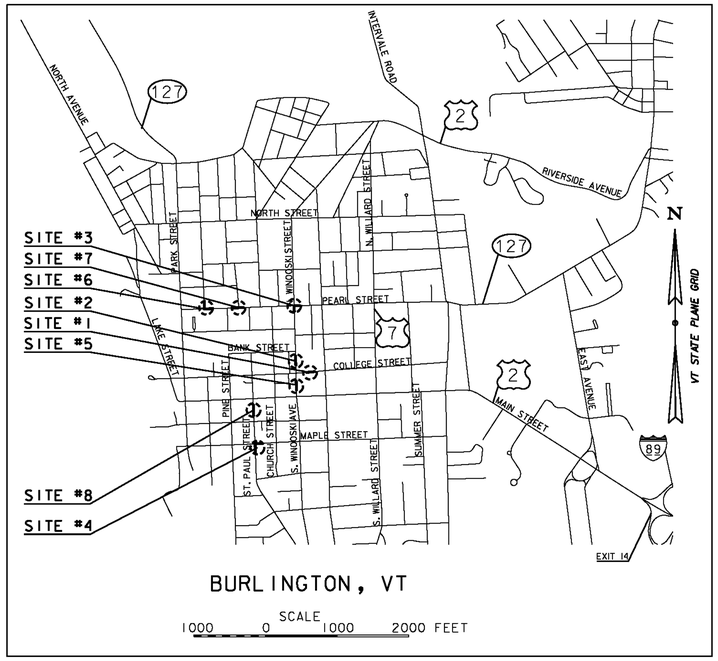
0 20 40
SCALE IN FEET

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

BURLINGTON

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f116t1_Burlington.dgn	PLOT DATE: 10/9/2013
PROJECT LEADER: E. ATKINS	DRAWN BY: S. MUSTO
DESIGNED BY: T. BIGELOW	CHECKED BY: E. ATKINS
BURLINGTON TIE SHEET	SHEET 15 OF 53



REMOVAL OF EXISTING SIDEWALK (SOLID ROCK EXCAVATION)
SITE 1- COLLEGE STREET - 19.4 SY
SITE 2 - S. WINOOSKI AVE - 34.0 SY

VERTICAL GRANITE CURB
SITE 1- COLLEGE STREET - 16 LF

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
SITE 1- COLLEGE STREET - 18.5 SY
SITE 2 - S. WINOOSKI AVE - 32.0 SY

5 INCH SIDEWALK RAMP WITH DETECTABLE WARNING SURFACE
SITE 1- COLLEGE STREET - 10 SF (TYPE 5)

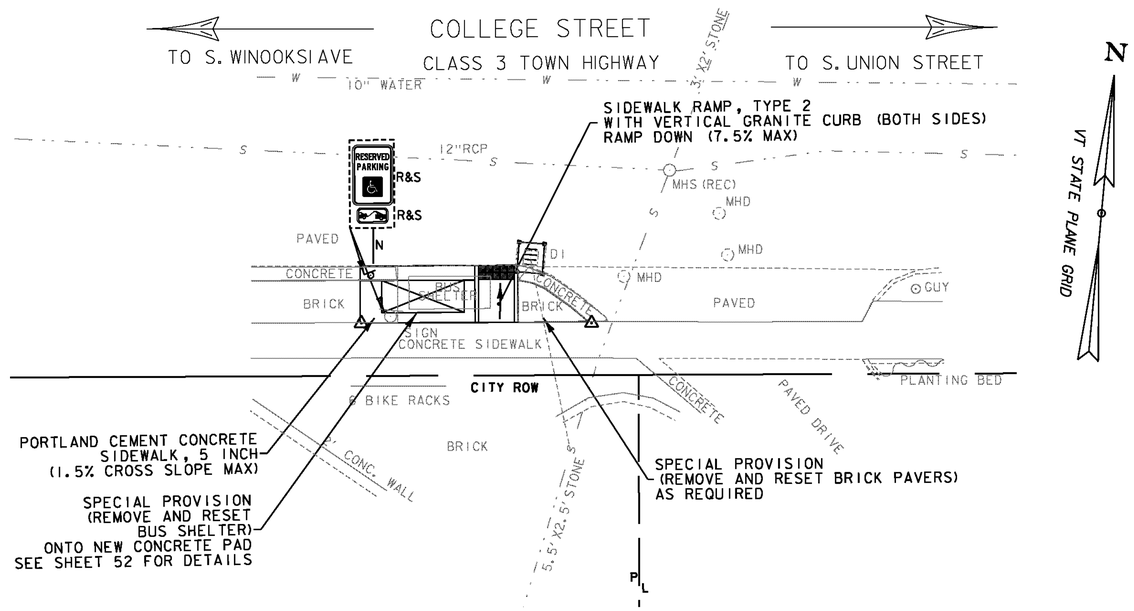
DECIDUOUS TREES (CELEBRATION MAPLE)
SITE 2 - S. WINOOSKI AVE - 1EACH

SPECIAL PROVISION (INLET PROTECTION, GEOTEXTILE FABRIC)
SITE 1- COLLEGE STREET - 1EACH

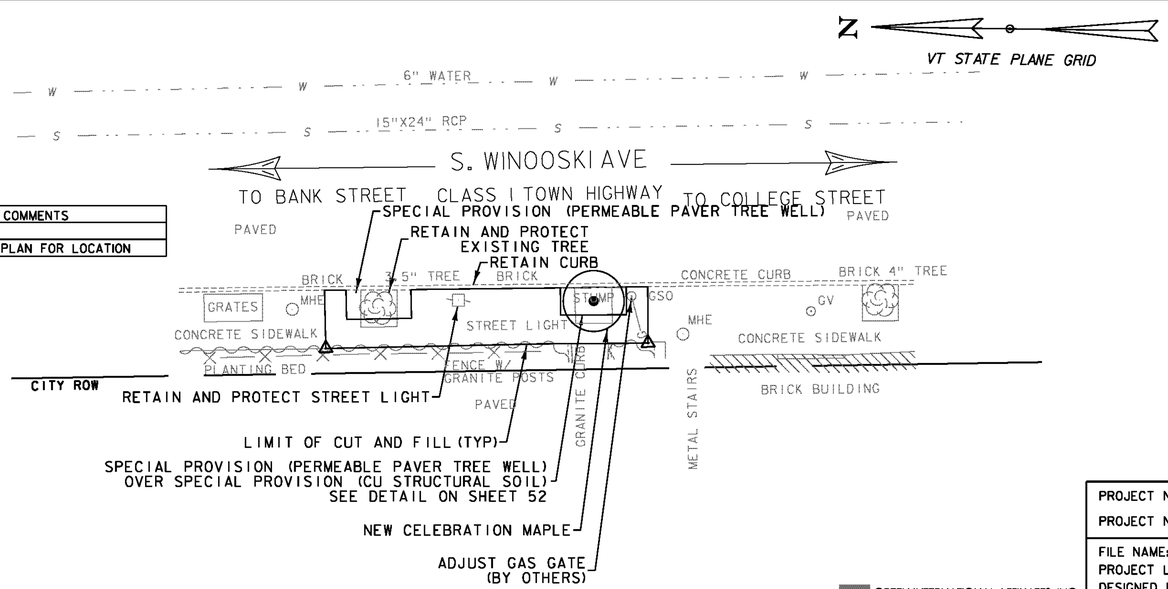
SPECIAL PROVISION (CU STRUCTURAL SOIL)
SITE 2 - S. WINOOSKI AVE - 3.9 CY

SPECIAL PROVISION (REMOVE AND RESET BUS SHELTER)
SITE 1- COLLEGE STREET - 1EACH

SPECIAL PROVISION (PERMEABLE PAVER TREE WELL)
SITE 2 - S. WINOOSKI AVE - 73 SF



SITE #1



SITE #2

PLANT LIST

QTY.	SIZE	COMMON NAME/ AREA	BOTANICAL NAME	SPACING/ COMMENTS
DECIDUOUS TREES 656.30				
1	2" - 2 1/2" CALIPER	CELEBRATION MAPLE	ACER FREEMANII	B&B, SEE PLAN FOR LOCATION

0 10 20
SCALE IN FEET

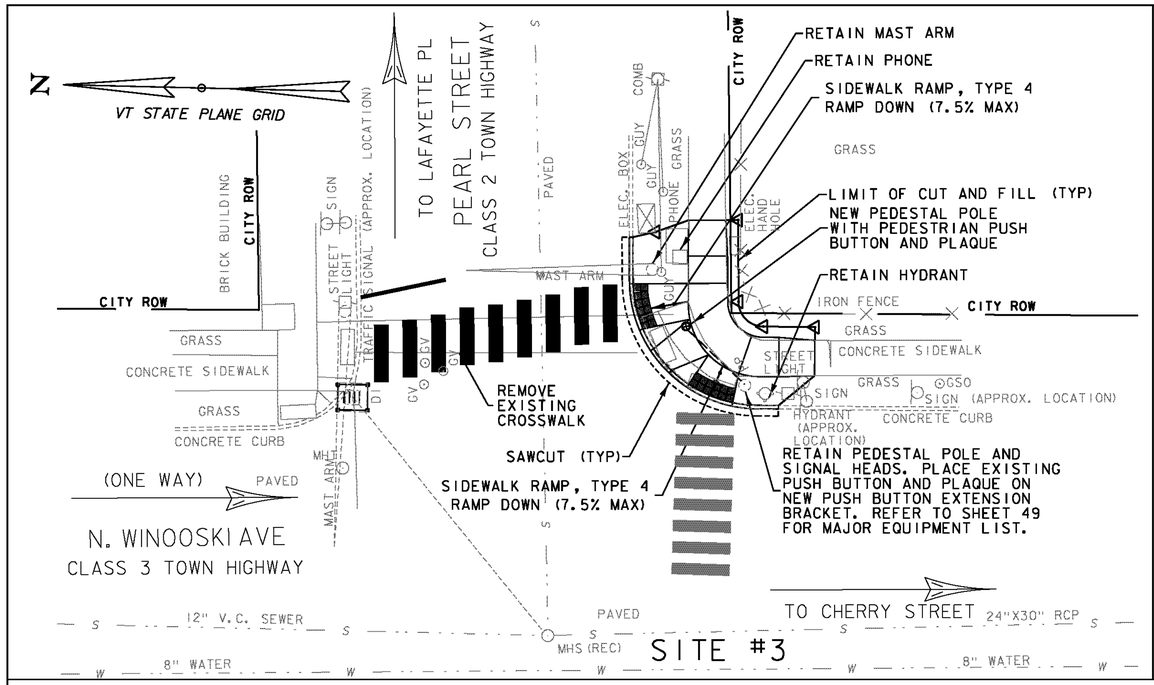
BURLINGTON

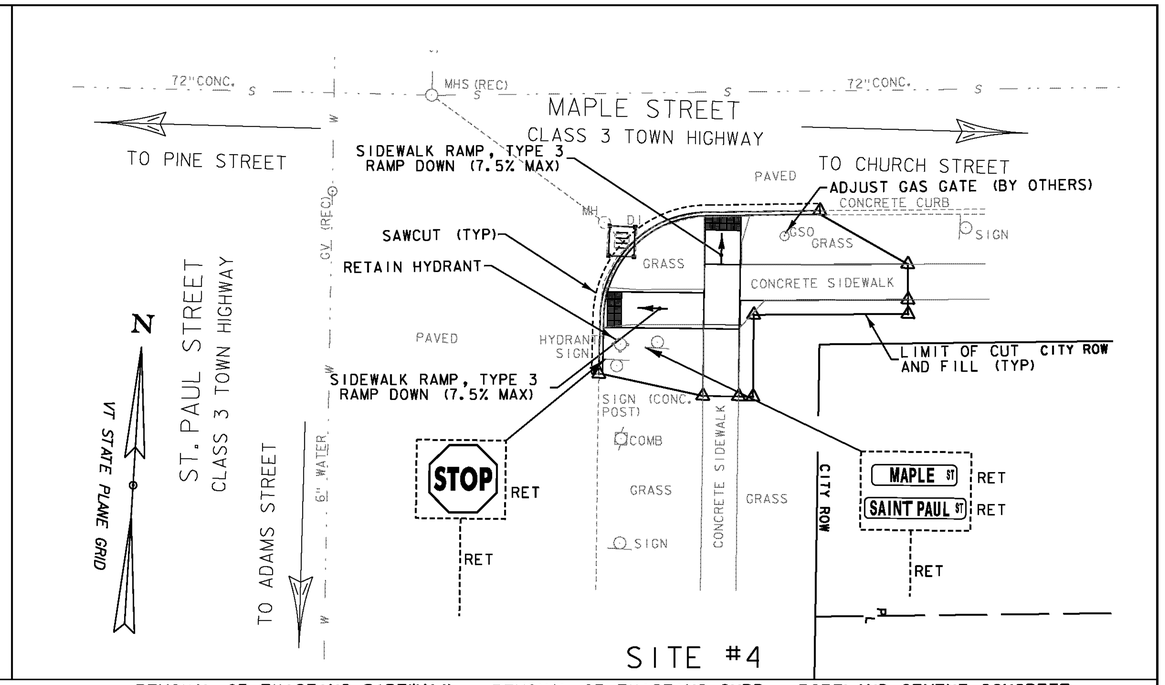
PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

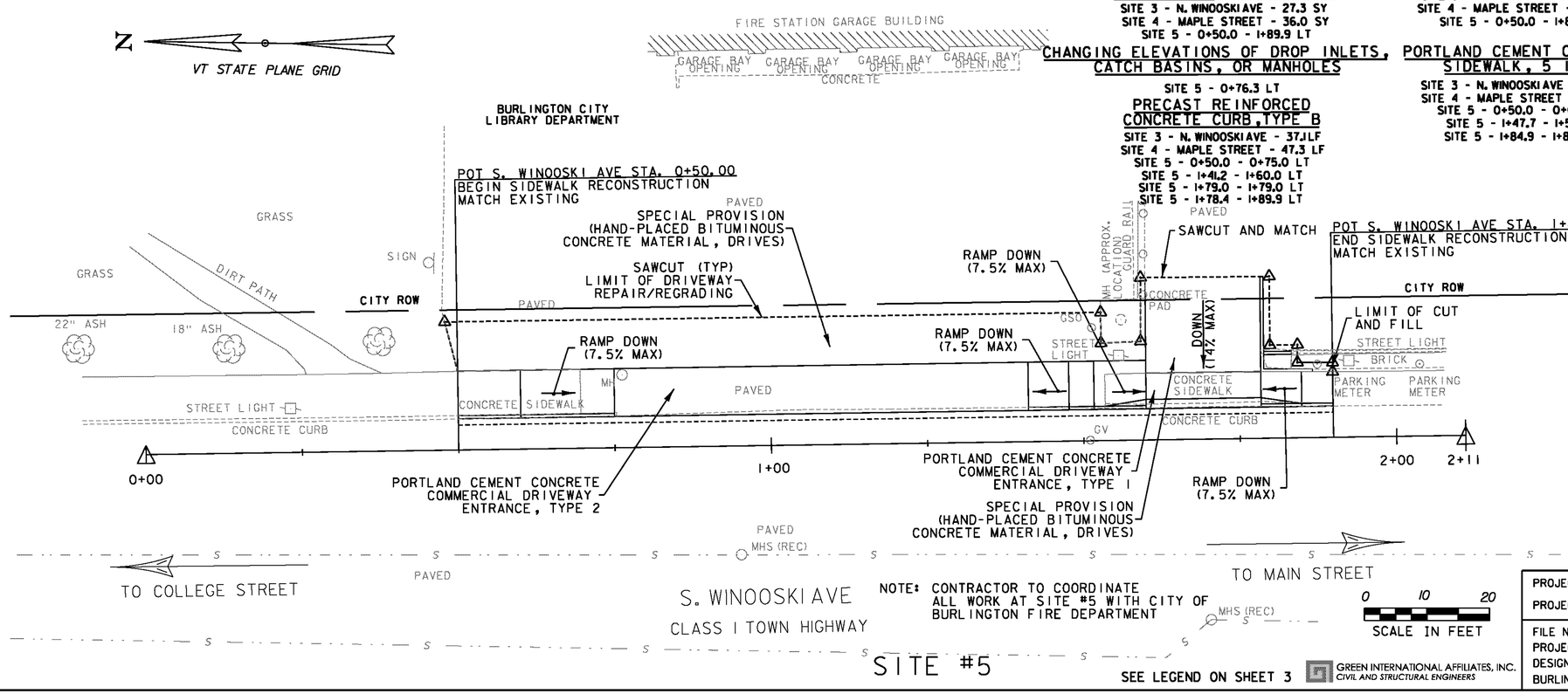
FILE NAME: z11f116bdr_burlington.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
BURLINGTON ROADWAY LAYOUT SHEET 1
PLOT DATE: 10/9/2013
DRAWN BY: N. BOSAN
CHECKED BY: E. ATKINS
SHEET 16 OF 53

SEE LEGEND ON SHEET 3

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS







NOTE: CONTRACTOR TO COORDINATE ALL WORK AT SITE #5 WITH CITY OF BURLINGTON FIRE DEPARTMENT

0 10 20
SCALE IN FEET

SEE LEGEND ON SHEET 3

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

REMOVAL OF EXISTING SIDEWALK (SOLID ROCK EXCAVATION)
SITE 3 - N. WINOOSKI AVE - 27.3 SY
SITE 4 - MAPLE STREET - 36.0 SY
SITE 5 - 0+50.0 - 1+89.9 LT

CHANGING ELEVATIONS OF DROP INLETS, CATCH BASINS, OR MANHOLES
SITE 5 - 0+76.3 LT

PRECAST REINFORCED CONCRETE CURB, TYPE B
SITE 3 - N. WINOOSKI AVE - 37.1 LF
SITE 4 - MAPLE STREET - 47.3 LF
SITE 5 - 0+50.0 - 0+75.0 LT
SITE 5 - 1+41.2 - 1+60.0 LT
SITE 5 - 1+79.0 - 1+79.0 LT
SITE 5 - 1+78.4 - 1+89.9 LT

REMOVAL OF EXISTING CURB
SITE 3 - N. WINOOSKI AVE - 37.1 LF
SITE 4 - MAPLE STREET - 46.9 LF
SITE 5 - 0+50.0 - 1+89.9 LT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
SITE 3 - N. WINOOSKI AVE - 29.2 SY
SITE 4 - MAPLE STREET - 34.6 SY
SITE 5 - 0+50.0 - 0+60.0 LT
SITE 5 - 1+47.7 - 1+51.7 LT
SITE 5 - 1+84.9 - 1+89.9 LT

PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH
SITE 5 - 0+60.0 - 1+47.7 LT
SITE 5 - 1+51.7 - 1+84.9 LT

5 INCH SIDEWALK RAMP WITH DETECTABLE WARNING SURFACE
SITE 3 - N. WINOOSKI AVE / PEARL STREET - 24 SF (TYPE 4)
SITE 4 - MAPLE STREET - 20 SF (TYPE 3)

DURABLE 24 INCH STOP BAR
SITE 3 - PEARL STREET - 13.2 LF

DURABLE CROSSWALK MARKING
SITE 3 - PEARL STREET - 60.0 LF

REMOVAL OF EXISTING PAVEMENT MARKINGS
SITE 3 - PEARL STREET - 31.4 SF

SEED
SITE 3 - N. WINOOSKI AVE - 10.9 SY
SITE 4 - MAPLE STREET - 45.6 SY

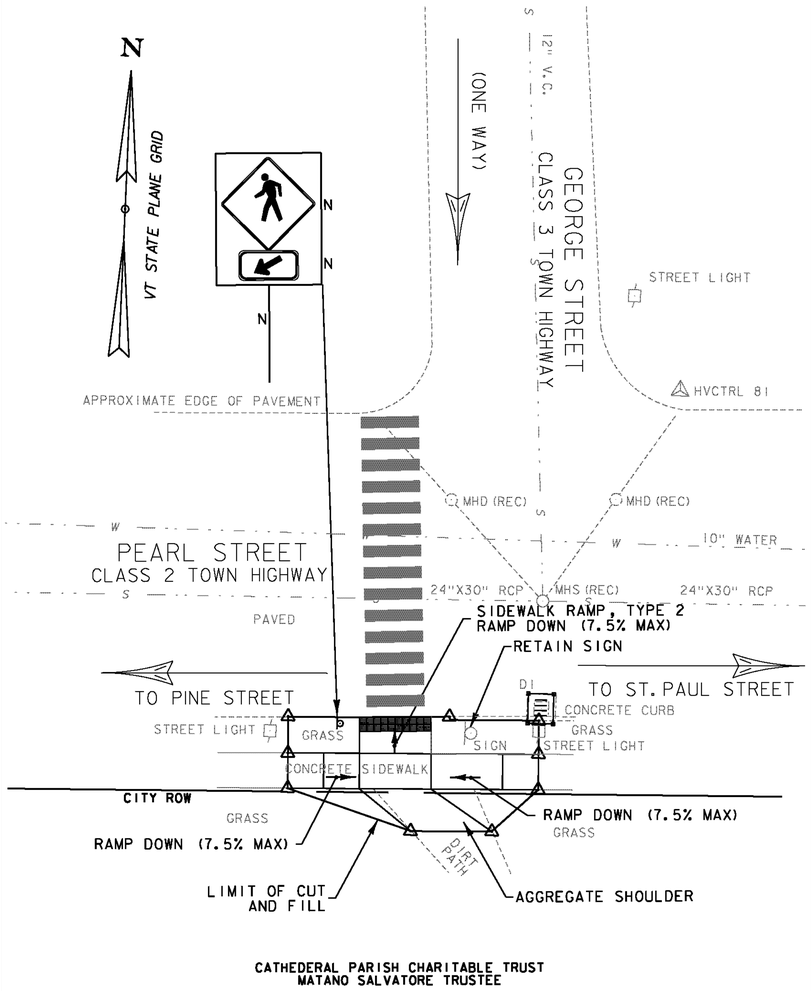
WIRED CONDUIT (2") (PVC)
SITE 3 - N. WINOOSKI AVE - 11.1 LF

SPECIAL PROVISION (INLET PROTECTION, GEOTEXTILE FABRIC)
SITE 3 - 1 EACH
SITE 4 - 1 EACH

SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)
SITE 5 - 0+50.0 - 1+89.9 LT

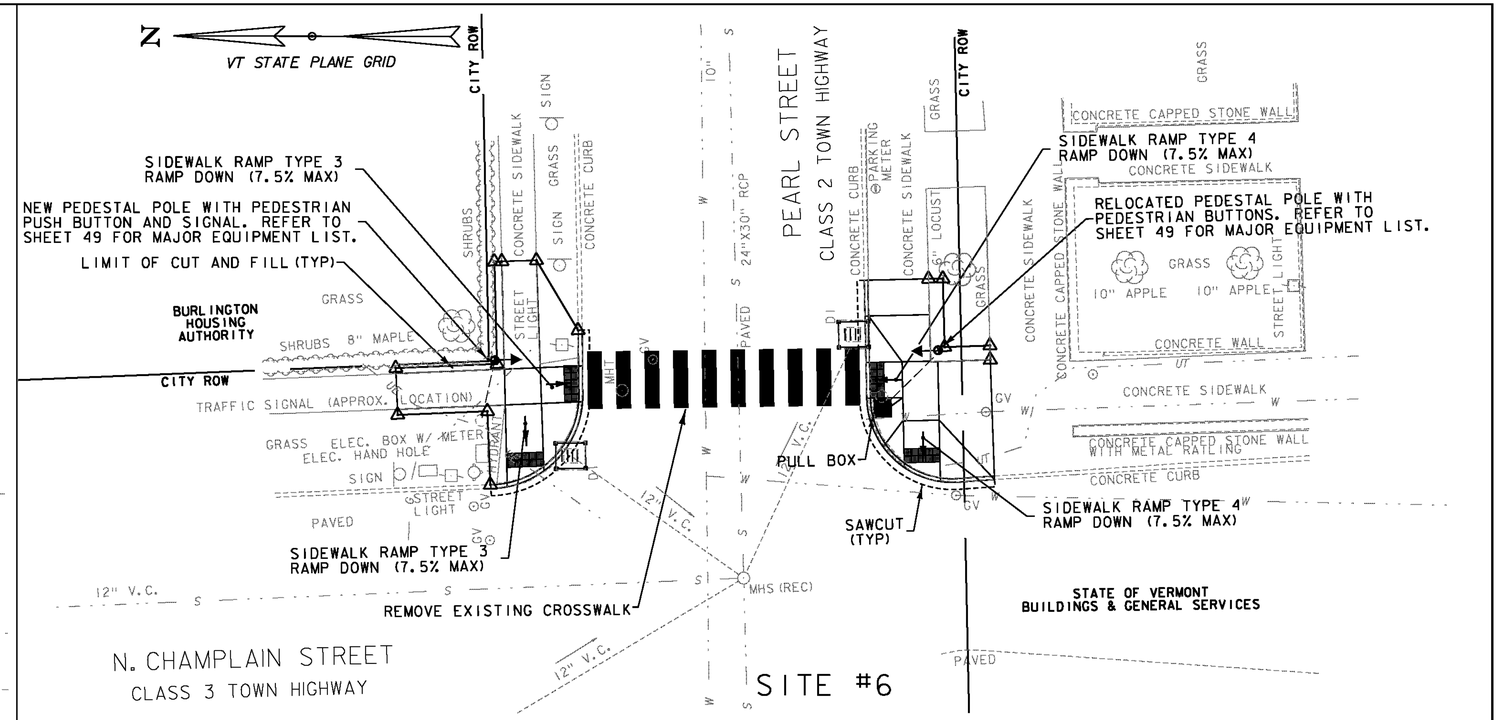
BURLINGTON

PROJECT NAME: STATEWIDE	
PROJECT NUMBER: STP SDWK(11)	
FILE NAME: z11f116bdr_burlington.dgn	PLOT DATE: 10/9/2013
PROJECT LEADER: E. ATKINS	DRAWN BY: N. BOSAN
DESIGNED BY: T. BIGELOW	CHECKED BY: E. ATKINS
BURLINGTON ROADWAY LAYOUT SHEET 2	SHEET 17 OF 53

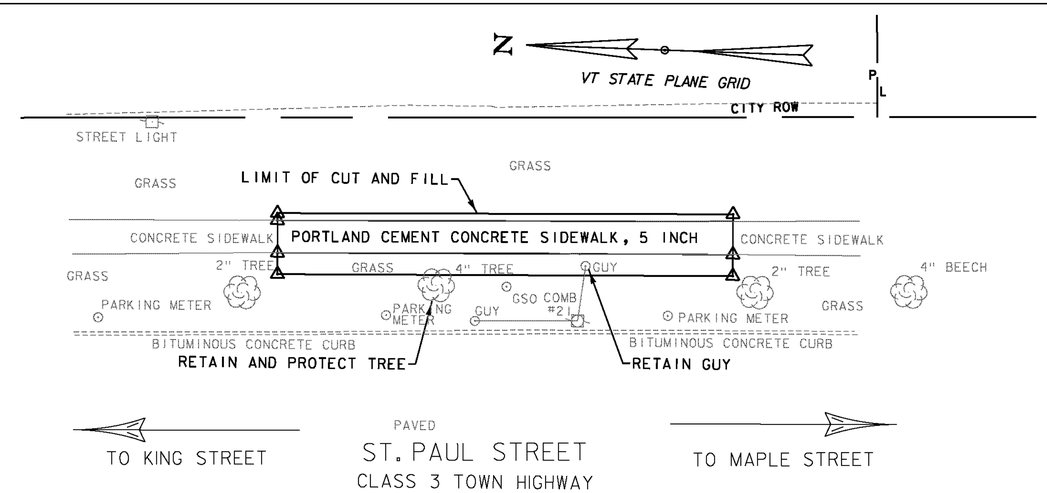


CATHEDERAL PARISH CHARITABLE TRUST
MATANO SALVATORE TRUSTEE

SITE #7



SITE #6



SITE #8

0 10 20
SCALE IN FEET

REMOVAL OF EXISTING SIDEWALK (SOLID ROCK EXCAVATION)
SITE 6 - PEARL STREET - 68.0 SY
SITE 7 - PEARL STREET - 25.1 SY
SITE 8 - ST. PAUL STREET - 32.4 SY

AGGREGATE SHOULDERS
SITE 7 - PEARL STREET - 7.0 SY

PRECAST REINFORCED CONCRETE CURB, TYPE B
SITE 6 - PEARL STREET - 70.2 LF

REMOVAL OF EXISTING CURB
SITE 6 - PEARL STREET - 70.6 LF

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
SITE 6 - PEARL STREET - 66.6 SY
SITE 7 - PEARL STREET - 25.1 SY
SITE 8 - ST. PAUL STREET - 32.4 SY

5 INCH SIDEWALK RAMP WITH DETECTABLE WARNING SURFACE
SITE 6 - PEARL STREET - 20 SF (TYPE 3)
SITE 6 - PEARL STREET - 20 SF (TYPE 4)
SITE 7 - PEARL - 20 SF (TYPE 2)

DURABLE CROSSWALK MARKING
SITE 6 - PEARL STREET - 38.0 LF

REMOVAL OF EXISTING PAVEMENT MARKINGS
SITE 6 - PEARL STREET - 318 SF

SEED
SITE 6 - PEARL STREET - 26.9 SY
SITE 7 - PEARL STREET - 21.7 SY
SITE 8 - ST. PAUL STREET - 28.3 SY

WIRED CONDUIT (2") (PVC)
SITE 6 - PEARL STREET - 17.4 LF

PULL BOX, STANDARD
SITE 6 - PEARL STREET - 1 EACH

SPECIAL PROVISION (INLET PROTECTION, GEOTEXTILE FABRIC)
SITE 6 - PEARL STREET - 2 EACH
SITE 7 - PEARL STREET - 1 EACH

SEE LEGEND ON SHEET 3

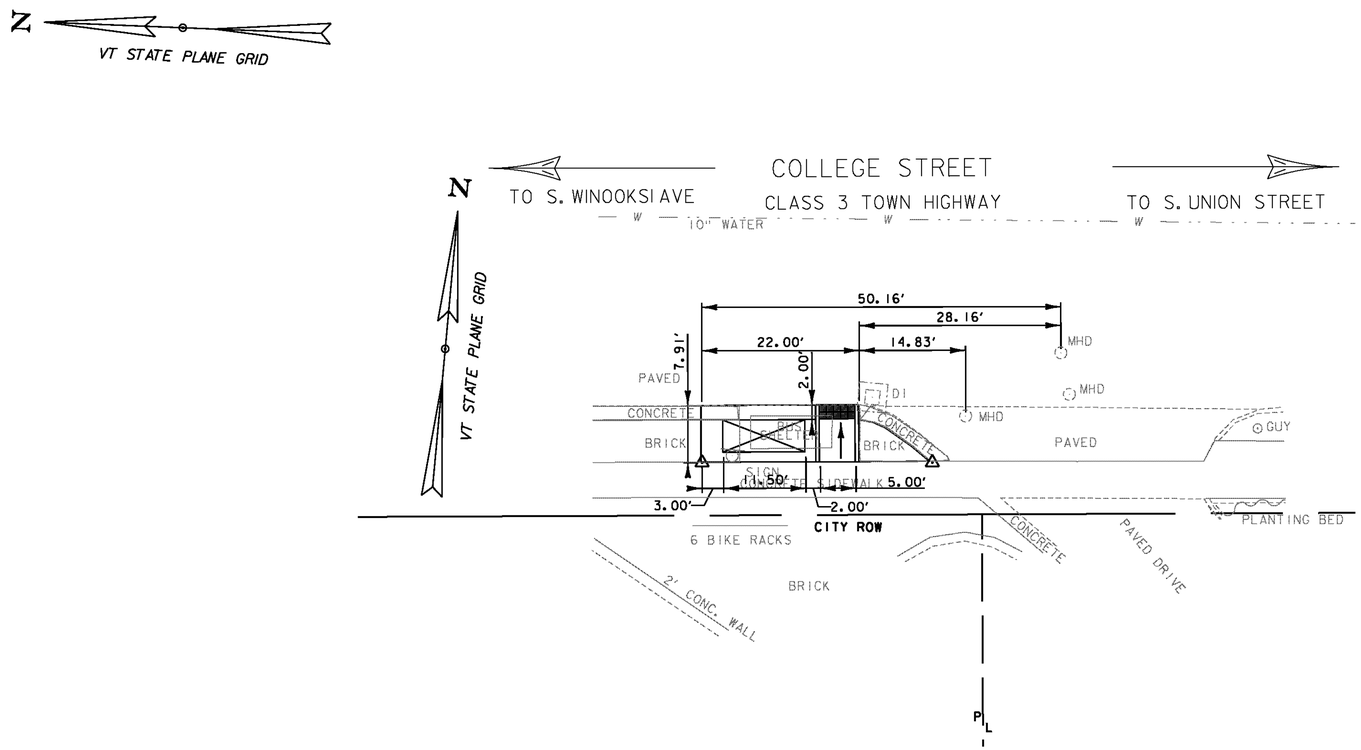
GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

BURLINGTON

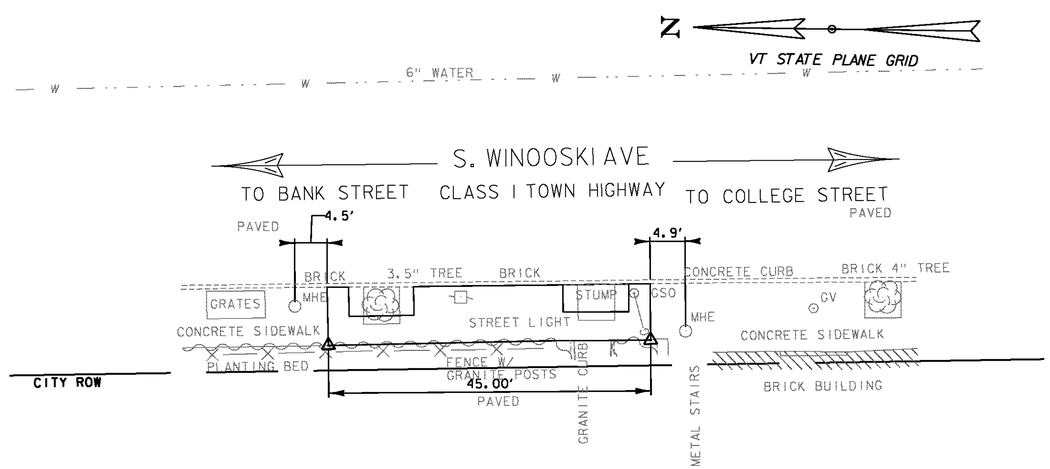
PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f116bdr_burlington.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
BURLINGTON ROADWAY LAYOUT SHEET 3

PLOT DATE: 10/9/2013
DRAWN BY: N. BOSAN
CHECKED BY: E. ATKINS
SHEET 18 OF 53



SITE #1



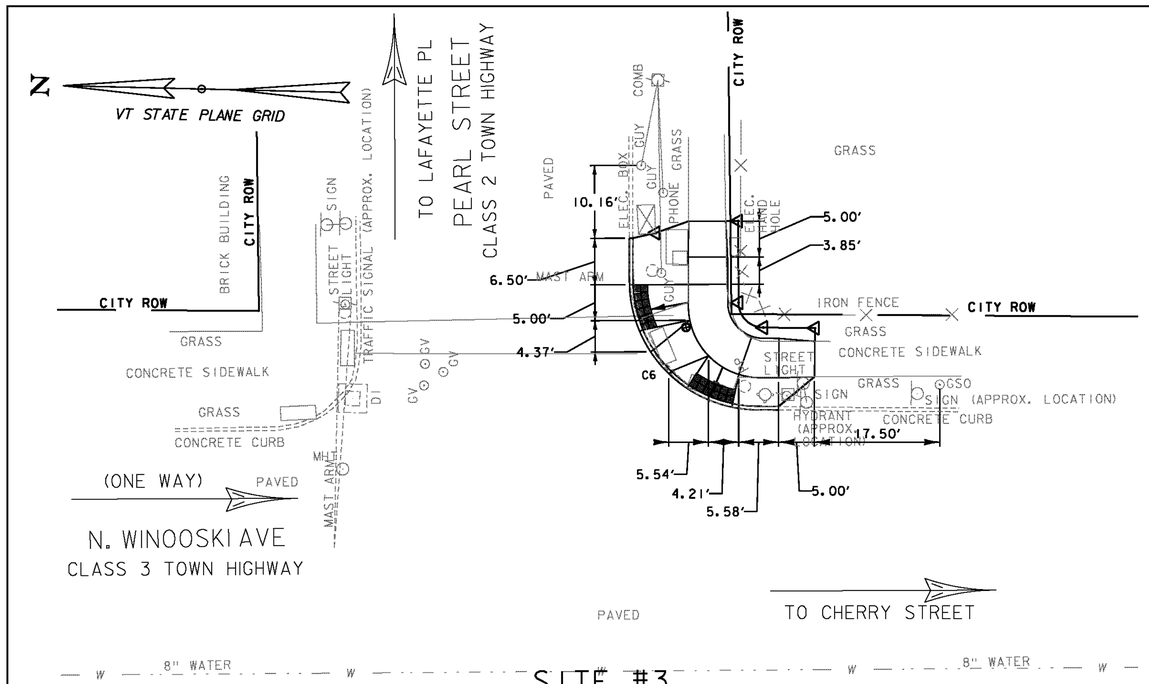
SITE #2

0 10 20
SCALE IN FEET

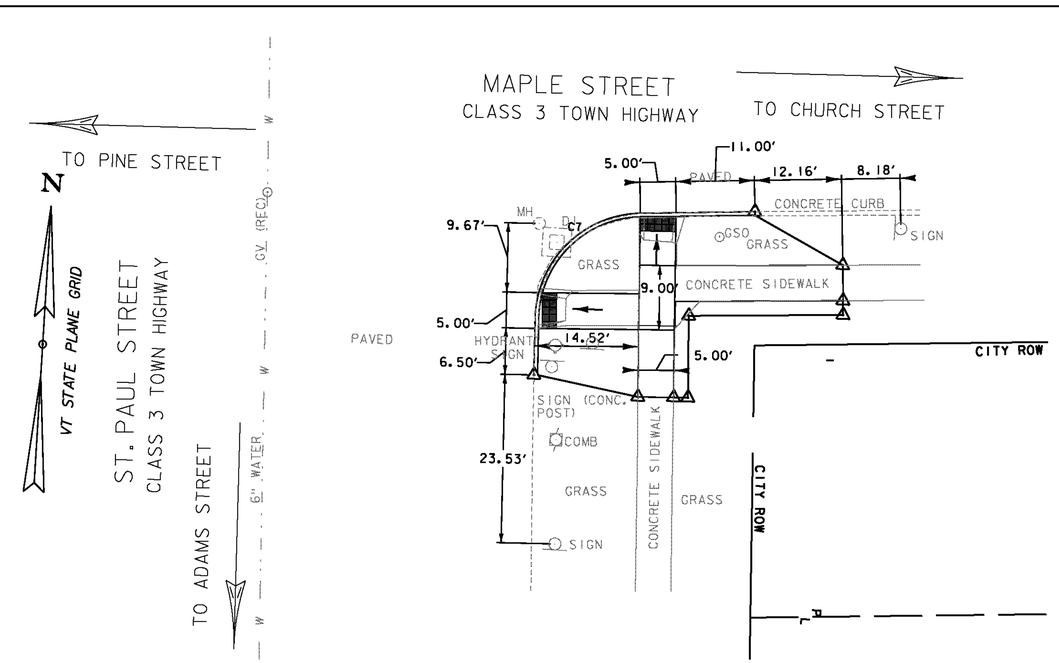
GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

BURLINGTON

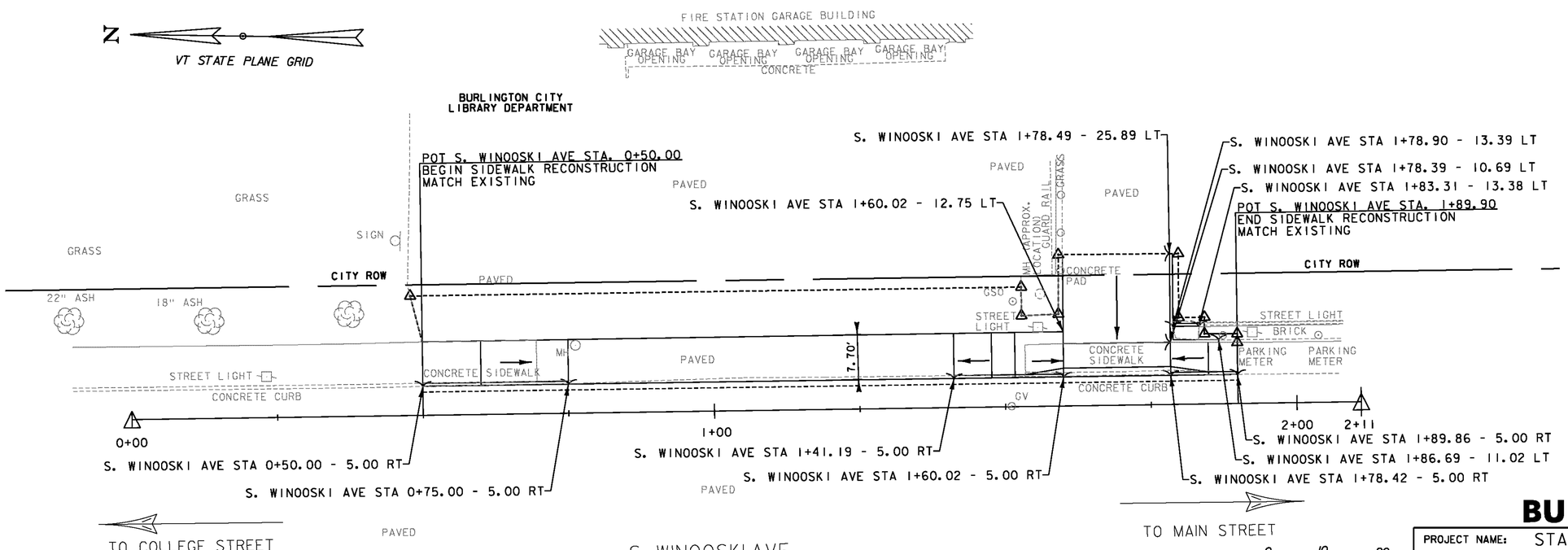
PROJECT NAME: STATEWIDE	
PROJECT NUMBER: STP SDWK(11)	
FILE NAME: z11f116curbbdr_burlington.dgn	PLOT DATE: 10/9/2013
PROJECT LEADER: E. ATKINS	DRAWN BY: A. SWEETMAN
DESIGNED BY: T. BIGELOW	CHECKED BY: E. ATKINS
BURLINGTON CURB TIE & GRADING SHEET 1	SHEET 19 OF 53



SITE #3



SITE #4



S. WINOOSKI AVE

CLASS I TOWN HIGHWAY

SITE #5

CURVE TABLE

LABEL	RADIUS (ft)	LENGTH (ft)
C6	18.00	28.02
C7	15.00	23.75

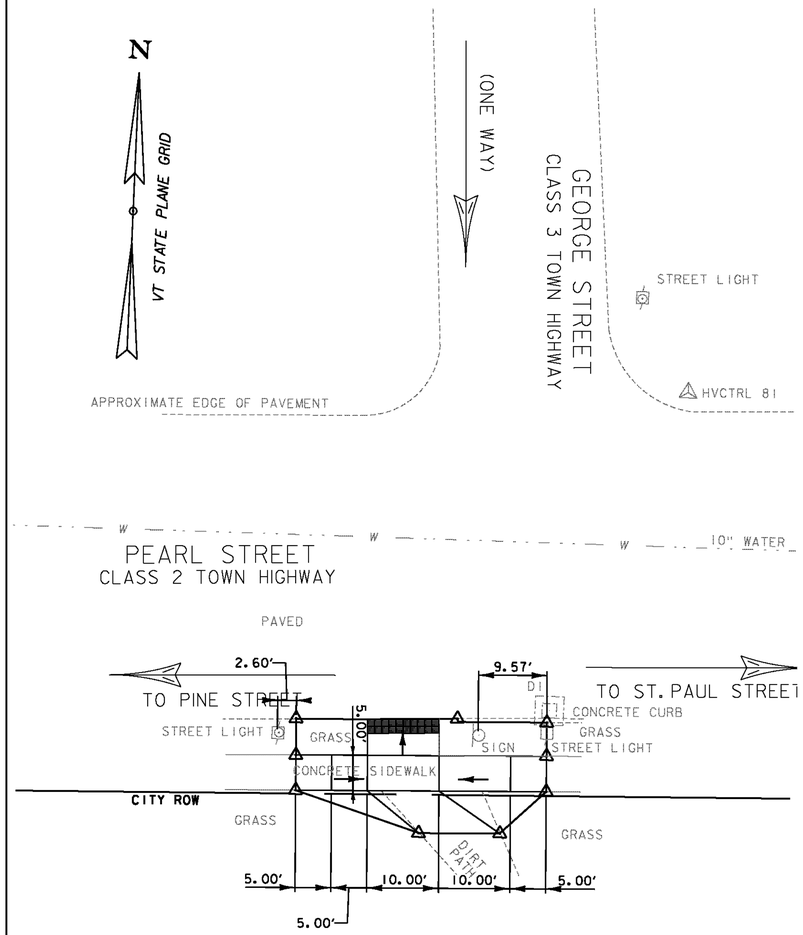
GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

BURLINGTON

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

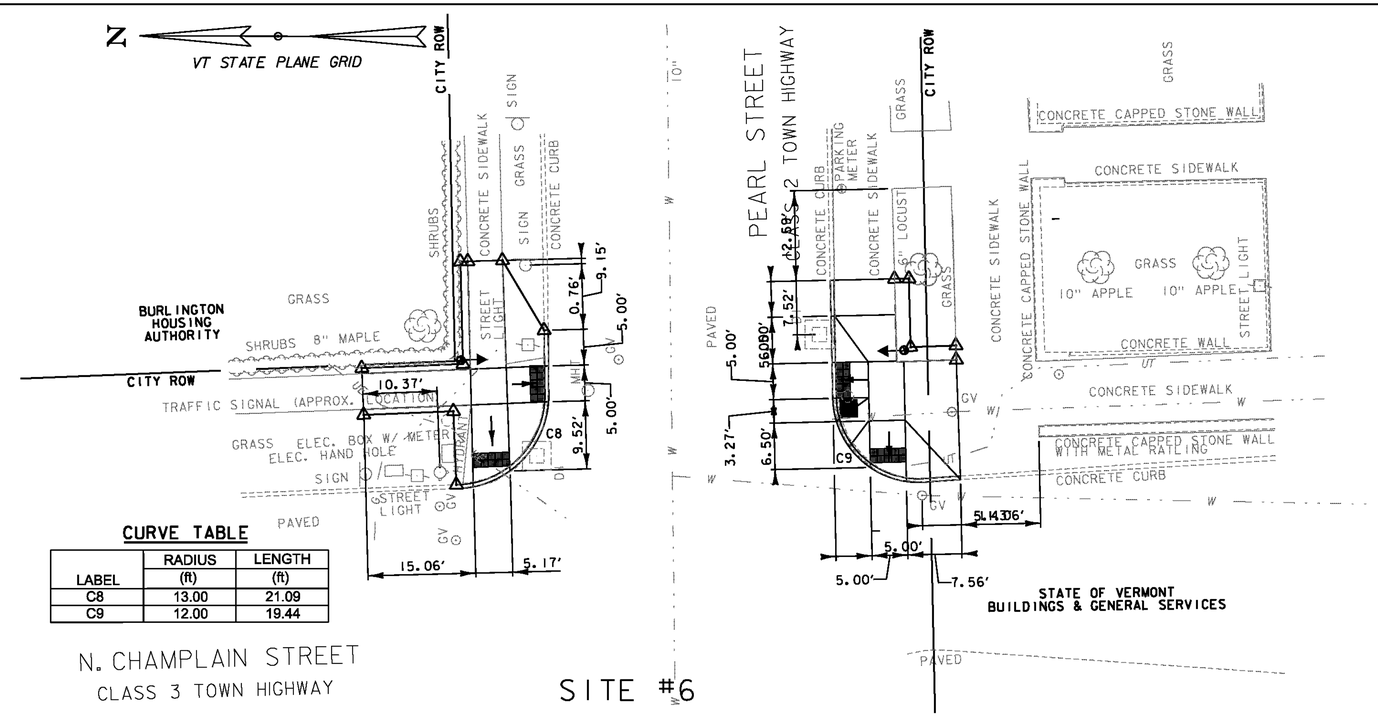
FILE NAME: z11f116curbbdr_burlington.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
BURLINGTON CURB TIE & GRADING SHEET 2

PLOT DATE: 10/9/2013
DRAWN BY: A. SWEETMAN
CHECKED BY: E. ATKINS
SHEET 20 OF 53



CATHEDERAL PARISH CHARITABLE TRUST
MATANO SALVATORE TRUSTEE

SITE #7

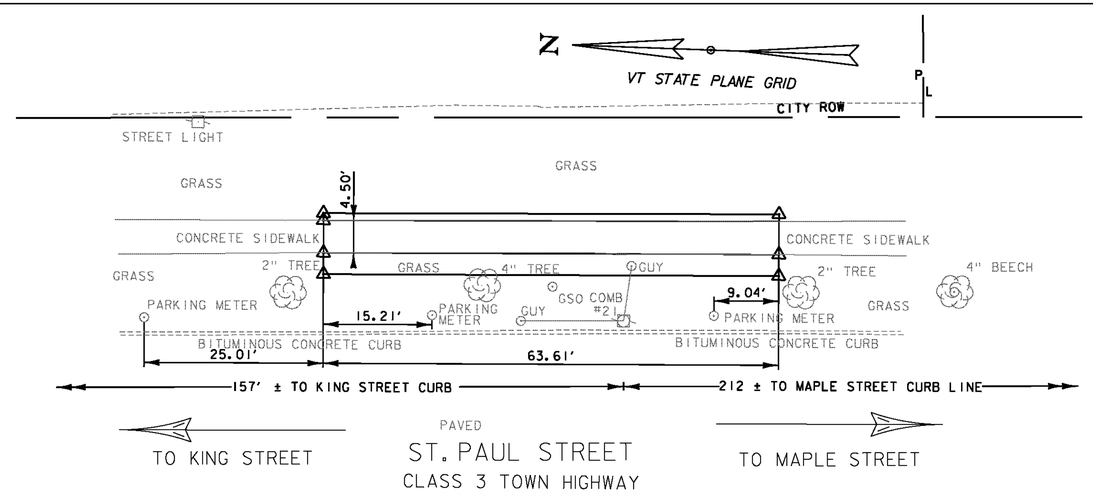


CURVE TABLE

LABEL	RADIUS (ft)	LENGTH (ft)
C8	13.00	21.09
C9	12.00	19.44

N. CHAMPLAIN STREET
CLASS 3 TOWN HIGHWAY

SITE #6



ST. PAUL STREET
CLASS 3 TOWN HIGHWAY

SITE #8

0 10 20
SCALE IN FEET

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

BURLINGTON

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f116curbbdr_burlington.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
BURLINGTON CURB TIE & GRADING SHEET 3

PLOT DATE: 10/9/2013
DRAWN BY: A. SWEETMAN
CHECKED BY: E. ATKINS
SHEET 21 OF 53

GPS CONTROL POINTS

VERMONT CAPITAL CORS ARP

PID AF9563

N = 642229.45
E = 1618836.21
ELLIP HEIGHT = 526.64

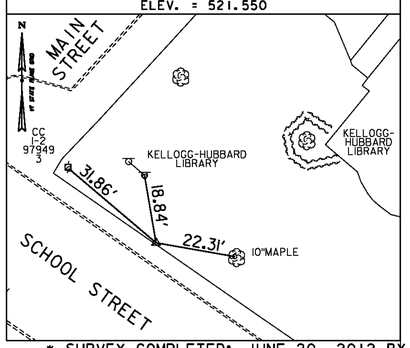
STATION IS A GPS CONTINOUSLY OPERATING REFERENCE STATION. STATION IS THE ANTENNA REFERENCE POINT OF THE GPS ANTENNA. THE ANTENNA IS MOUNTED ON THE ROOF OF 133 STATE STREET IN MONTPELIER, VERMONT. OWNERSHIP: VERMONT AGENCY OF TRANSPORTATION, 1 NATIONAL LIFE DRIVE, DRAWER 33, MONTPELIER, VT 05633. CONTACT: DANIEL MARTIN.

* DESCRIPTION PROVIDED BY VERMONT AGENCY OF TRANSPORTATION GEODETIC SURVEY UNIT

TRAVERSE TIES

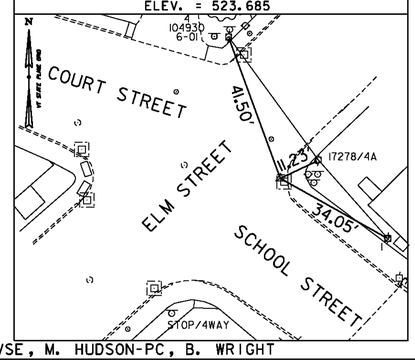
HVCTRL#41

NORTH = 641878.844
EAST = 1621001.725
ELEV. = 521.550



HVCTRL#42

NORTH = 642108.689
EAST = 1620673.321
ELEV. = 523.685

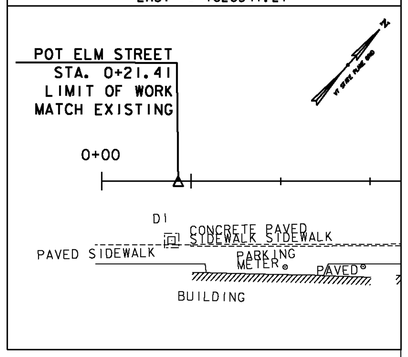


* SURVEY COMPLETED: JUNE 20, 2012 BY VSE, M. HUDSON-PC, B. WRIGHT

ALIGNMENT TIES

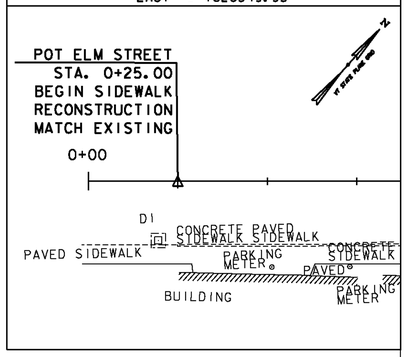
ELM STREET POT STA. 0+21.41

NORTH = 642019.11
EAST = 1620547.27



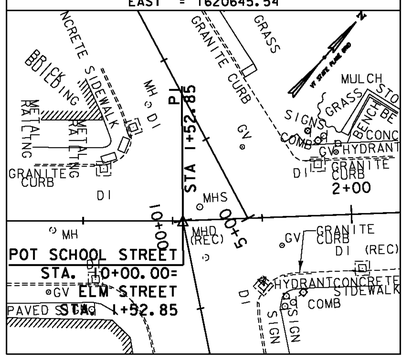
ELM STREET POT STA. 0+25.00

NORTH = 642021.49
EAST = 1620549.95



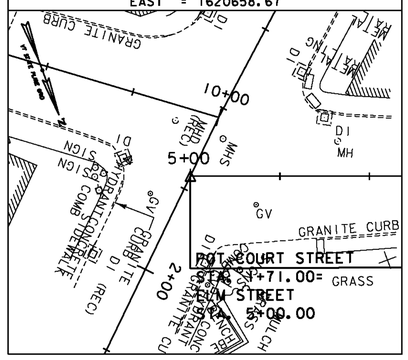
ELM STREET PI STA. 1+52.85 = SCHOOL STREET POT STA. 10+00.00

NORTH = 642106.40
EAST = 1620645.54



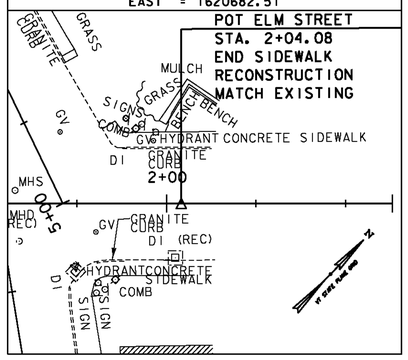
ELM STREET POT STA. 1+71.00 = COURT STREET POT STA. 5+00.00

NORTH = 642118.99
EAST = 1620658.67



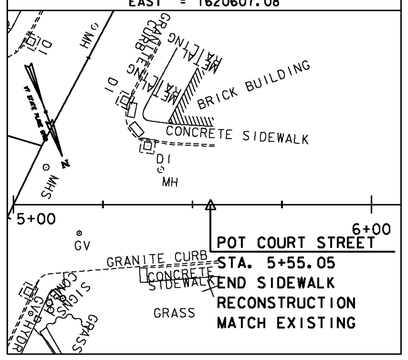
ELM STREET POT STA. 2+04.08

NORTH = 642141.86
EAST = 1620682.51



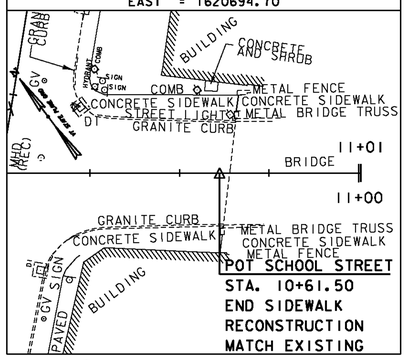
COURT STREET POT STA. 5+55.05

NORTH = 642138.20
EAST = 1620607.08



SCHOOL STREET POT STA. 10+61.50

NORTH = 642069.44
EAST = 1620694.70



MONTPELIER

DATUM	
VERTICAL	NAVD 88(GEOID09) FT
HORIZONTAL	NAD 83(CORS) sFT
ADJUSTMENT	NONE

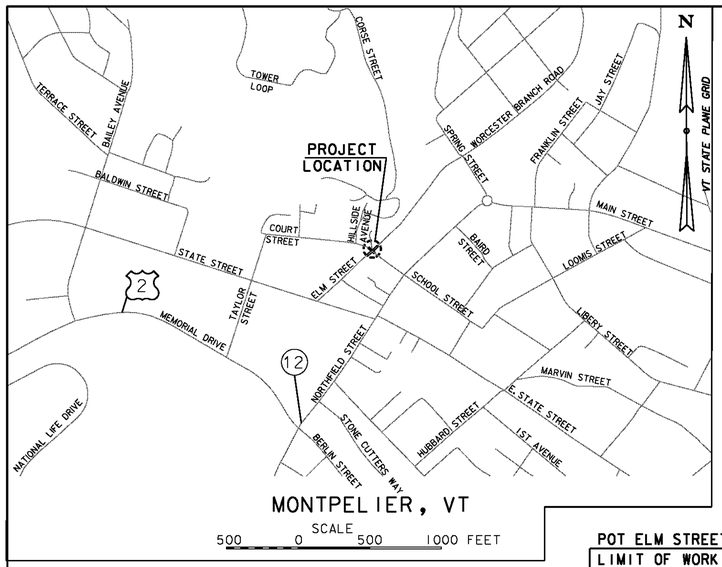
0 20 40
SCALE IN FEET

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f116t1_Montpelier.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
MONTPELIER TIE SHEET

PLOT DATE: 10/9/2013
DRAWN BY: S. MUSTO
CHECKED BY: E. ATKINS
SHEET 22 OF 53



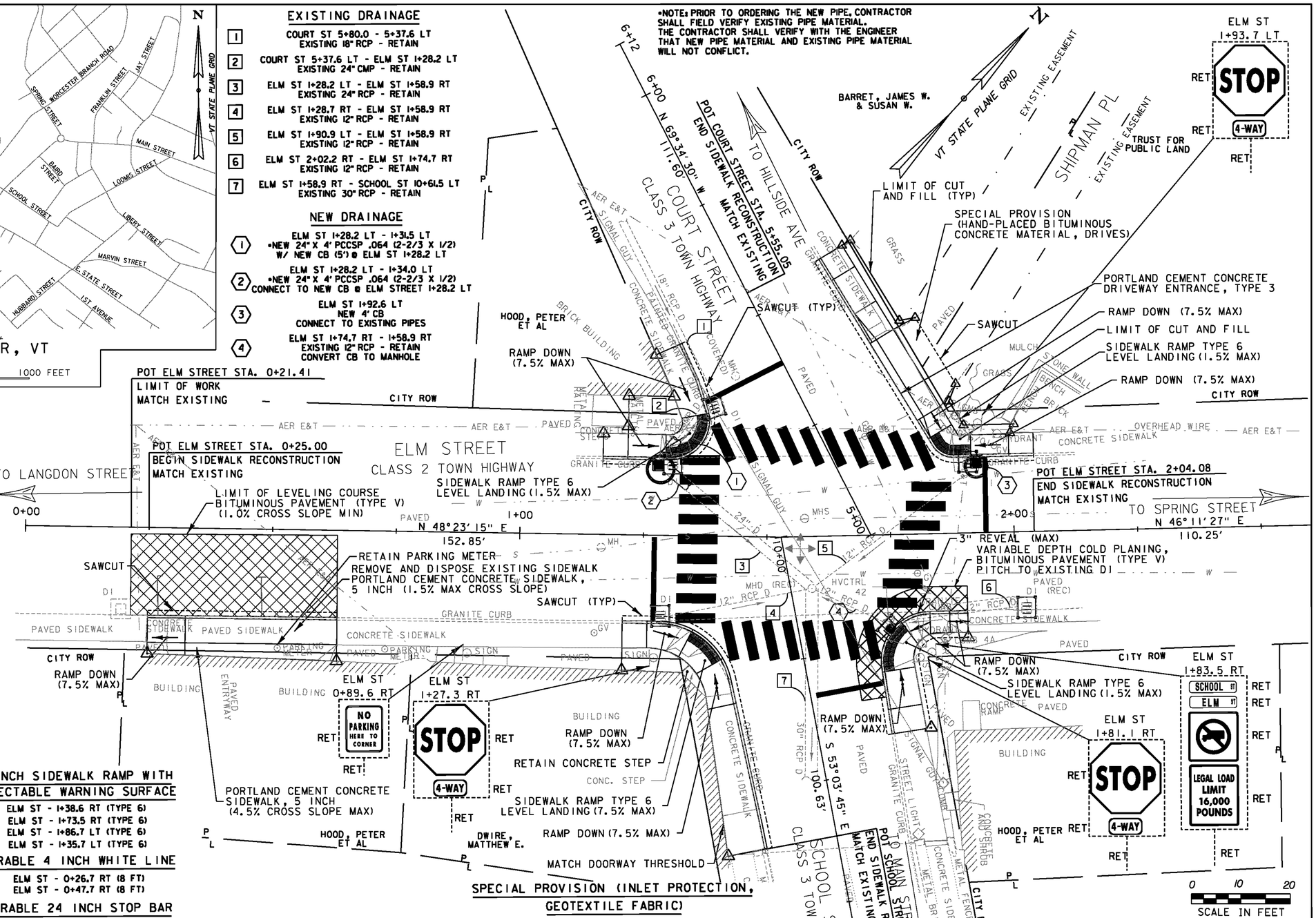
EXISTING DRAINAGE

1. COURT ST 5+80.0 - 5+37.6 LT
   EXISTING 18" RCP - RETAIN
2. COURT ST 5+37.6 LT - ELM ST 1+28.2 LT
   EXISTING 24" CMP - RETAIN
3. ELM ST 1+28.2 LT - ELM ST 1+58.9 RT
   EXISTING 24" RCP - RETAIN
4. ELM ST 1+28.7 RT - ELM ST 1+58.9 RT
   EXISTING 12" RCP - RETAIN
5. ELM ST 1+90.9 LT - ELM ST 1+58.9 RT
   EXISTING 12" RCP - RETAIN
6. ELM ST 2+02.2 RT - ELM ST 1+74.7 RT
   EXISTING 12" RCP - RETAIN
7. ELM ST 1+58.9 RT - SCHOOL ST 10+61.5 LT
   EXISTING 30" RCP - RETAIN

NEW DRAINAGE

1. ELM ST 1+28.2 LT - 1+31.5 LT
   •NEW 24" X 4' PCCSP .064 (2-2/3 X 1/2)
   W/ NEW CB (5') @ ELM ST 1+28.2 LT
2. ELM ST 1+28.2 LT - 1+34.0 LT
   •NEW 24" X 4' PCCSP .064 (2-2/3 X 1/2)
   CONNECT TO NEW CB @ ELM STREET 1+28.2 LT
3. ELM ST 1+92.6 LT
   NEW 4' CB
   CONNECT TO EXISTING PIPES
4. ELM ST 1+74.7 RT - 1+58.9 RT
   EXISTING 12" RCP - RETAIN
   CONVERT CB TO MANHOLE

•NOTE: PRIOR TO ORDERING THE NEW PIPE, CONTRACTOR SHALL FIELD VERIFY EXISTING PIPE MATERIAL. THE CONTRACTOR SHALL VERIFY WITH THE ENGINEER THAT NEW PIPE MATERIAL AND EXISTING PIPE MATERIAL WILL NOT CONFLICT.



REMOVAL OF EXISTING SIDEWALK (SOLID ROCK EXCAVATION)

ELM ST 0+25.0 0+63.1RT
ELM ST 1+21.0 RT - SCHOOL ST 10+61.2 RT
SCHOOL ST 10+42.8 LT - ELM ST 1+90.1RT
ELM ST 2+04.1LT - COURT ST 5+55.1RT
COURT ST 5+52.3 LT - ELM ST 1+16.7 LT

COLD PLANING, BITUMINOUS PAVEMENT

SCHOOL ST 10+35.7 RT - ELM ST 1+90.3 RT

BITUMINOUS CONCRETE PAVEMENT

ELM ST 0+21.4 - 0+63.1RT

PRECAST REINFORCED CATCH BASIN WITH CAST IRON GRATE

ELM STREET - 1+27.6 LT
ELM STREET - 1+93.2 LT

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

ELM STREET - 1+75.3 RT

CAST IRON COVER WITH FRAME

ELM STREET - 1+75.3 RT

VERTICAL GRANITE CURB

SCHOOL ST 10+42.8 LT - ELM ST 1+90.1RT
ELM ST 2+04.1LT - COURT ST 5+16.5 RT
COURT ST 5+34.7 RT - 5+54.5 RT
COURT ST 5+51.2 LT - ELM ST 1+16.7 LT

REMOVING AND RESETTING CURB

ELM STREET 0+25.0 - 0+63.1RT
ELM ST 1+21.0 RT - SCHOOL ST 10+61.2 RT

REMOVAL OF EXISTING CURB

SCHOOL ST 10+42.8 LT - ELM ST 1+90.1RT
ELM ST 2+04.1LT - COURT ST 5+16.5 RT
COURT ST 5+34.7 - 5+54.5 RT
COURT ST 5+51.2 LT - ELM ST 1+16.7 LT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH

ELM ST 0+25.0 RT - SCHOOL ST 10+61.2 RT
SCHOOL ST 10+42.8 LT - ELM ST 1+90.1RT
ELM ST 2+04.1LT - COURT ST 5+53.4 RT
COURT ST 5+52.3 LT - ELM ST 1+16.7 LT

5 INCH SIDEWALK RAMP WITH DETECTABLE WARNING SURFACE

ELM ST - 1+38.6 RT (TYPE 6)
ELM ST - 1+73.5 RT (TYPE 6)
ELM ST - 1+86.7 LT (TYPE 6)
ELM ST - 1+35.7 LT (TYPE 6)

DURABLE 4 INCH WHITE LINE

ELM ST - 0+26.7 RT (8 FT)
ELM ST - 0+47.7 RT (8 FT)

DURABLE 24 INCH STOP BAR

ELM ST - 1+27.5 RT
ELM ST - 1+94.4 LT
COURT ST - 5+39.0 LT
SCHOOL ST - 10+32.0 LT

DURABLE CROSSWALK MARKING

ELM ST - 1+37.3
COURT ST - 5+34.1
ELM ST - 1+79.8
SCHOOL ST - 10+20.9

REMOVAL OF EXISTING PAVEMENT MARKINGS

ELM ST - 1+37.3
COURT ST - 5+34.1
ELM ST - 1+79.8
SCHOOL ST - 10+20.9

SEED

ELM ST 2+01.1LT - COURT ST 5+19.5 RT
COURT ST 5+34.7 - 5+55.1RT

SPECIAL PROVISION (INLET PROTECTION, GEOTEXTILE FABRIC)

ELM ST - 1+28.3 RT
ELM ST - 1+30.7 LT
COURT ST - 5+37.5 LT
ELM ST - 1+75.3 RT
ELM ST - 1+91.5 LT
ELM ST - 2+03.1RT

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

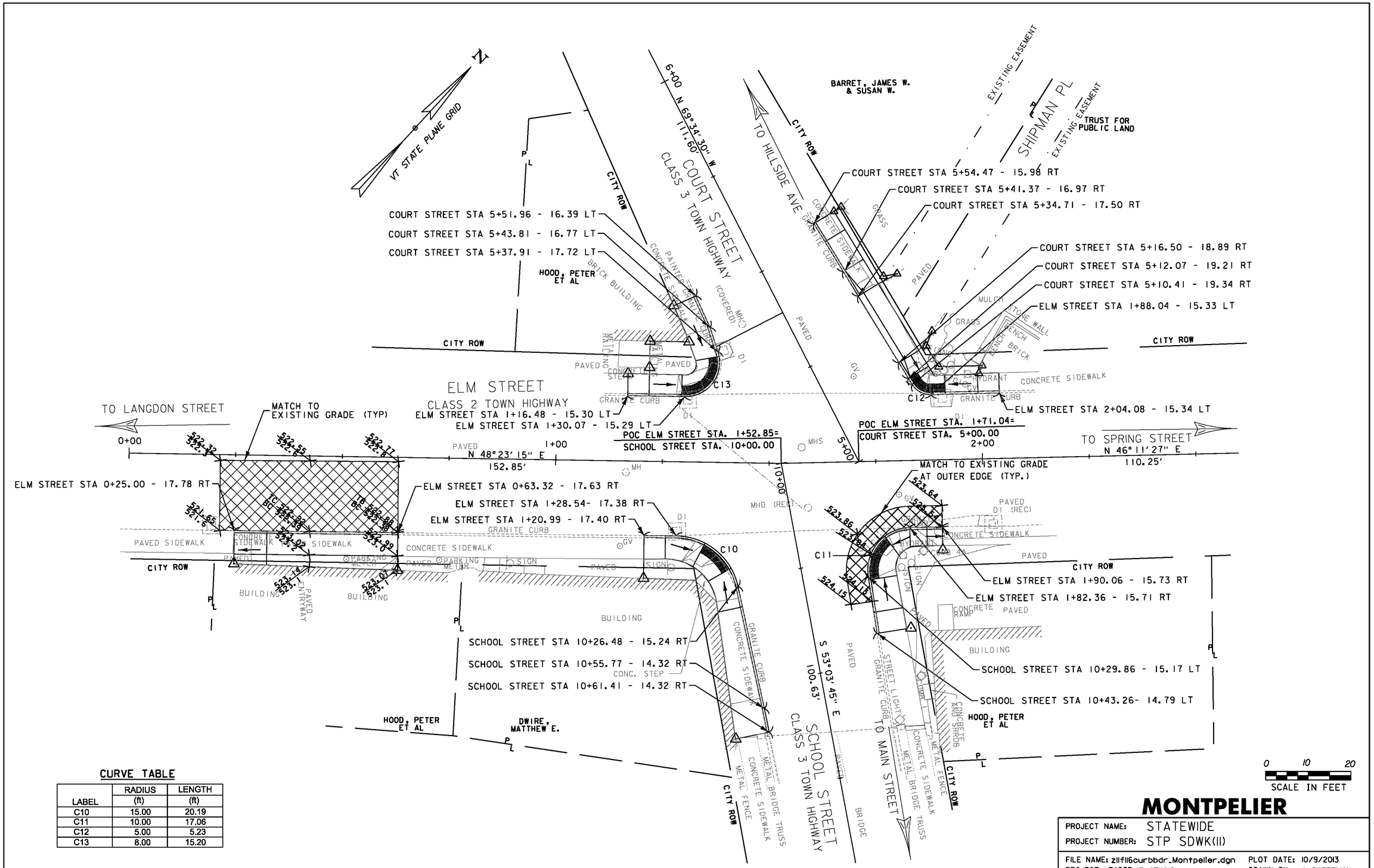
SCHOOL ST 10+35.2 LT - ELM ST 1+90.1RT
COURT ST 5+43.1LT - ELM ST 1+21.6LT

SEE LEGEND ON SHEET 3

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

MONTPELIER

PROJECT NAME: STATEWIDE	
PROJECT NUMBER: STP SDWK(11)	
FILE NAME: z11f116bdr_Montpelier.dgn	PLOT DATE: 10/9/2013
PROJECT LEADER: E. ATKINS	DRAWN BY: T. BIGELOW
DESIGNED BY: T. BIGELOW	CHECKED BY: E. ATKINS
MONTPELIER ROADWAY LAYOUT SHEET	SHEET 23 OF 53



CURVE TABLE

LABEL	RADIUS (ft)	LENGTH (ft)
C10	15.00	20.19
C11	10.00	17.06
C12	5.00	5.23
C13	8.00	15.20

MONTPELIER

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f116curbbdr_Montpelier.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
MONTPELIER CURB TIE & GRADING SHEET

PLOT DATE: 10/9/2013
DRAWN BY: A. SWEETMAN
CHECKED BY: E. ATKINS
SHEET 24 OF 53

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

GPS CONTROL POINTS

HARDWICK CORS ARP

PID DM7840

N = 732128.65
E = 1675405.58
ELLIP HEIGHT = 842.61

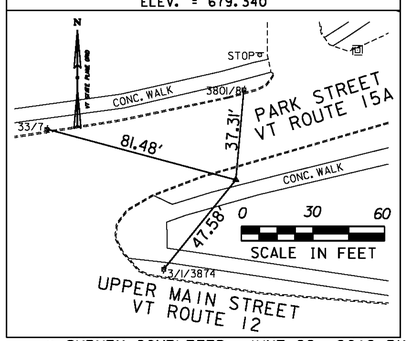
STATION IS A GPS CONTINOUSLY OPERATING REFERENCE STATION. STATION IS THE ANTENNA REFERENCE POINT OF THE GPS ANTENNA. THE ANTENNA IS MOUNTED ON THE ROOF OF HAZEN UNION HIGH SCHOOL, HARDWICK, VT. THE MONUMENT IS ATTACHED TO A TWO STORY CONCRETE/BRICK BUILDING WITH A 8 FT CONCRETE FOUNDATION BUILT IN 1970. MAST IS A 1.75 INCH DIA GALV PIPE THAT IS 108 INCHES LONG. THE MAST ATTACHED TO A STEEL MOUNTING FRAME WITH THREE ATTACHMENTS CONSISTING OF 3/8 INCH SS THROUGH BOLTS. THE MOUNTING FRAME IS ATTACHED TO THE BUILDING USING 6 ATTACHMENT POINTS. ALL 6 ATTACHMENTS ARE THROUGH BOLTED AND CONSIST OF 1/2 INCH SS THREADED ROD AND NUTS.

* DESCRIPTION PROVIDED BY VERMONT AGENCY OF TRANSPORTATION GEODETIC SURVEY UNIT

TRAVERSE TIES

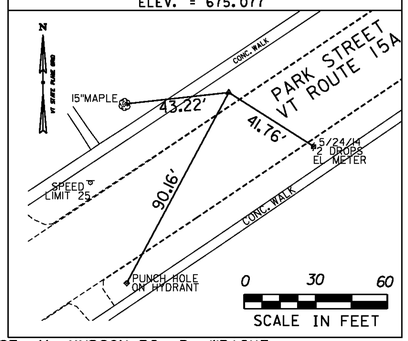
HVCTRL#1

NORTH = 751571.662
EAST = 1615519.213
ELEV. = 679.340



HVCTRL#2

NORTH = 752029.948
EAST = 1616170.639
ELEV. = 675.077

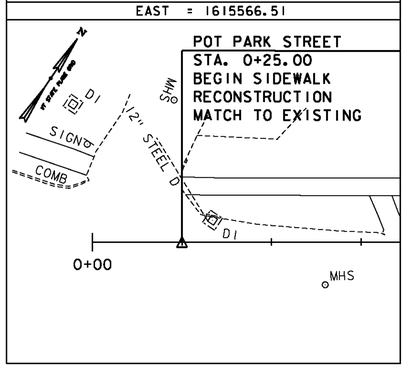


* SURVEY COMPLETED: JUNE 22, 2012 BY VSE, M. HUDSON-PC, B. WRIGHT

ALIGNMENT TIES

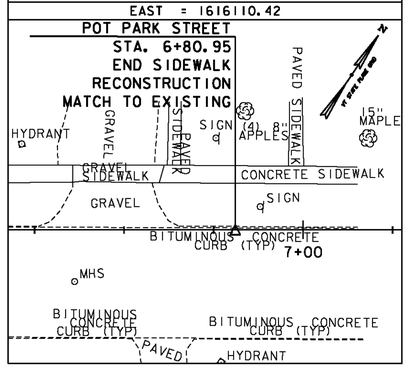
PARK STREET POT STA. 0+25.00

NORTH = 751616.22
EAST = 1615566.51



PARK STREET POT STA. 6+80.95

NORTH = 751982.87
EAST = 1616110.42



DATUM	
VERTICAL	NAVD 88(GEOID09) FT
HORIZONTAL	NAD 83(CORS) sFT
ADJUSTMENT	NONE

0 20 40
SCALE IN FEET

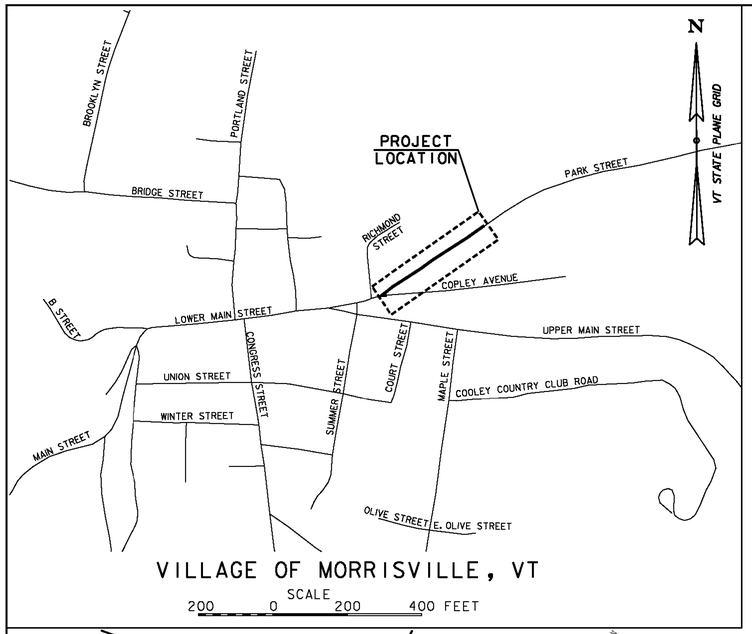
GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

VILLAGE OF MORRISVILLE

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f1161_Morrisville.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
MORRISVILLE TIE SHEET

PLOT DATE: 10/9/2013
DRAWN BY: S. MUSTO
CHECKED BY: E. ATKINS
SHEET 25 OF 53



REMOVAL OF EXISTING SIDEWALK (SOLID ROCK EXCAVATION)

PARK STREET 0+25.0 - 2+50.0 LT
PARK STREET 1+28.2 - 1+49.5 RT

AGGREGATE SHOULDERS

PARK STREET 2+46.1 - 2+50.0 LT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH

PARK STREET 0+25.0 - 1+65.0 LT
PARK STREET 1+38.6 - 1+49.5 RT
PARK STREET 1+65.0 - 1+86.1 LT
PARK STREET 1+86.1 - 2+45.0 LT
PARK STREET 2+45.0 - 2+50.0 LT

5 INCH SIDEWALK RAMP WITH DETECTABLE WARNING SURFACE

PARK STREET 0+29.0 LT (TYPE I)
PARK STREET 1+41.1 RT (TYPE I)
PARK STREET 1+41.6 LT (TYPE I)

DURABLE CROSSWALK MARKING

PARK STREET 1+41.6 RT

REMOVAL OF EXISTING PAVEMENT MARKINGS

PARK STREET 0+82.1 LT - 1+29.0 RT

SEED

PARK STREET 0+25.0 - 1+71.3 LT
PARK STREET 0+26.2 - 1+39.1 LT
PARK STREET 1+44.1 - 1+70.0 LT
PARK STREET 1+28.2 - 1+45.2 RT
PARK STREET 1+43.6 - 1+49.5 RT
PARK STREET 1+80.3 - 2+50.0 LT
PARK STREET 1+80.3 - 2+50.0 LT

REMOVING SIGNS

PARK STREET - 0+97.1 LT
PARK STREET - 0+97.1 LT
PARK STREET - 1+36.6 RT

ERECTING SALVAGED SIGNS

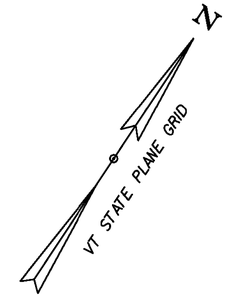
PARK STREET - 1+46.2 LT

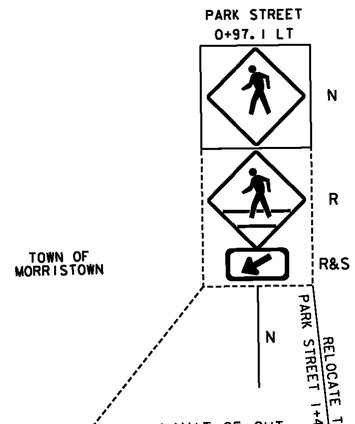
SPECIAL PROVISION (INLET PROTECTION, GEOTEXTILE FABRIC)

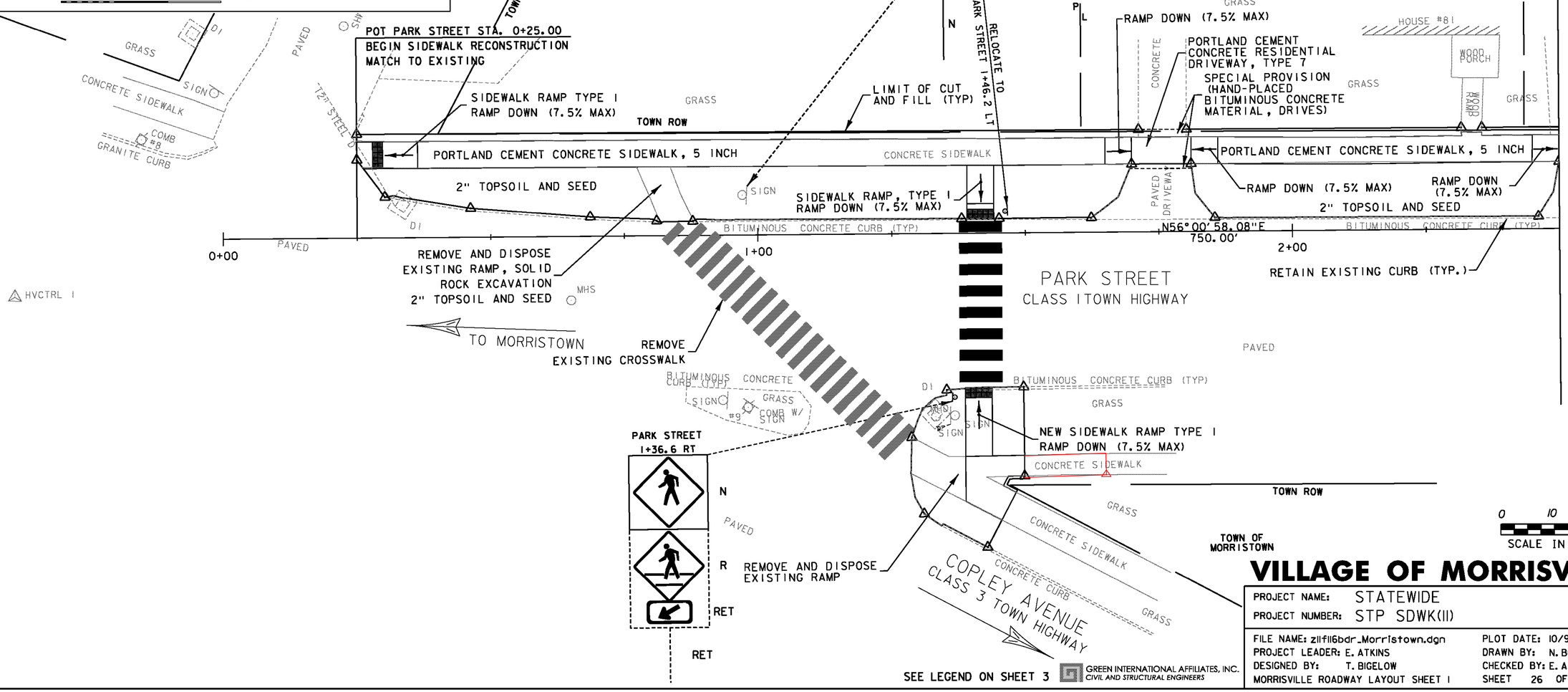
PARK STREET - 0+33.5 LT
PARK STREET - 1+33.0 RT

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

PARK STREET 1+71.3 - 1+80.3 LT







SEE LEGEND ON SHEET 3

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

VILLAGE OF MORRISVILLE

PROJECT NAME: STATEWIDE	
PROJECT NUMBER: STP SDWK(11)	
FILE NAME: z11f116bdr_Morristown.dgn	PLOT DATE: 10/9/2013
PROJECT LEADER: E. ATKINS	DRAWN BY: N. BOSAN
DESIGNED BY: T. BIGELOW	CHECKED BY: E. ATKINS
MORRISVILLE ROADWAY LAYOUT SHEET 1	SHEET 26 OF 53

REMOVAL OF EXISTING SIDEWALK (SOLID ROCK EXCAVATION)
PARK STREET 2+50.0 - 6+71.0 LT

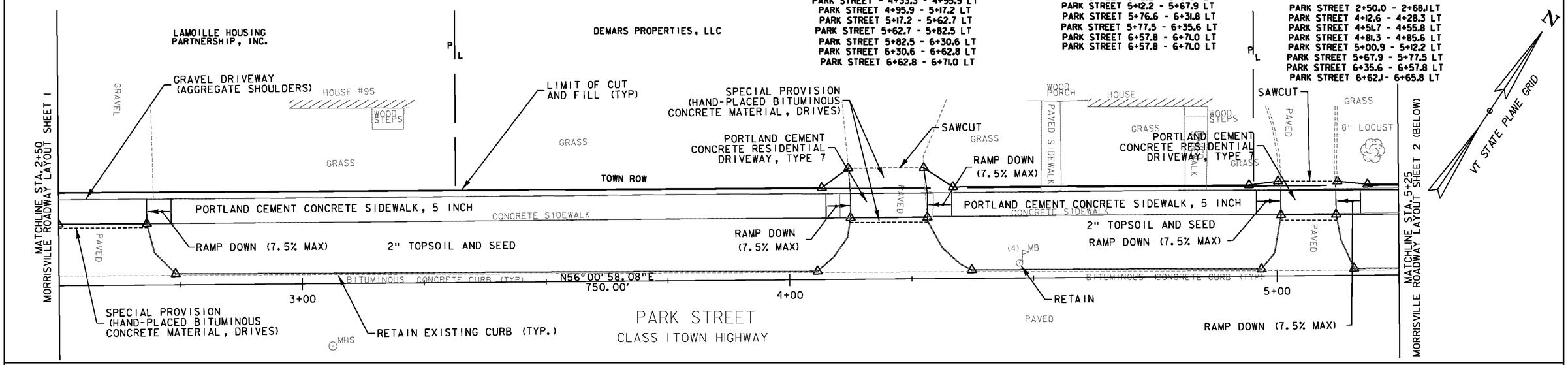
AGGREGATE SHOULDERS
PARK STREET 2+48.0 - 2+74.0 LT
PARK STREET 5+62.0 - 5+80.1LT
PARK STREET 6+26.1- 6+65.3 LT

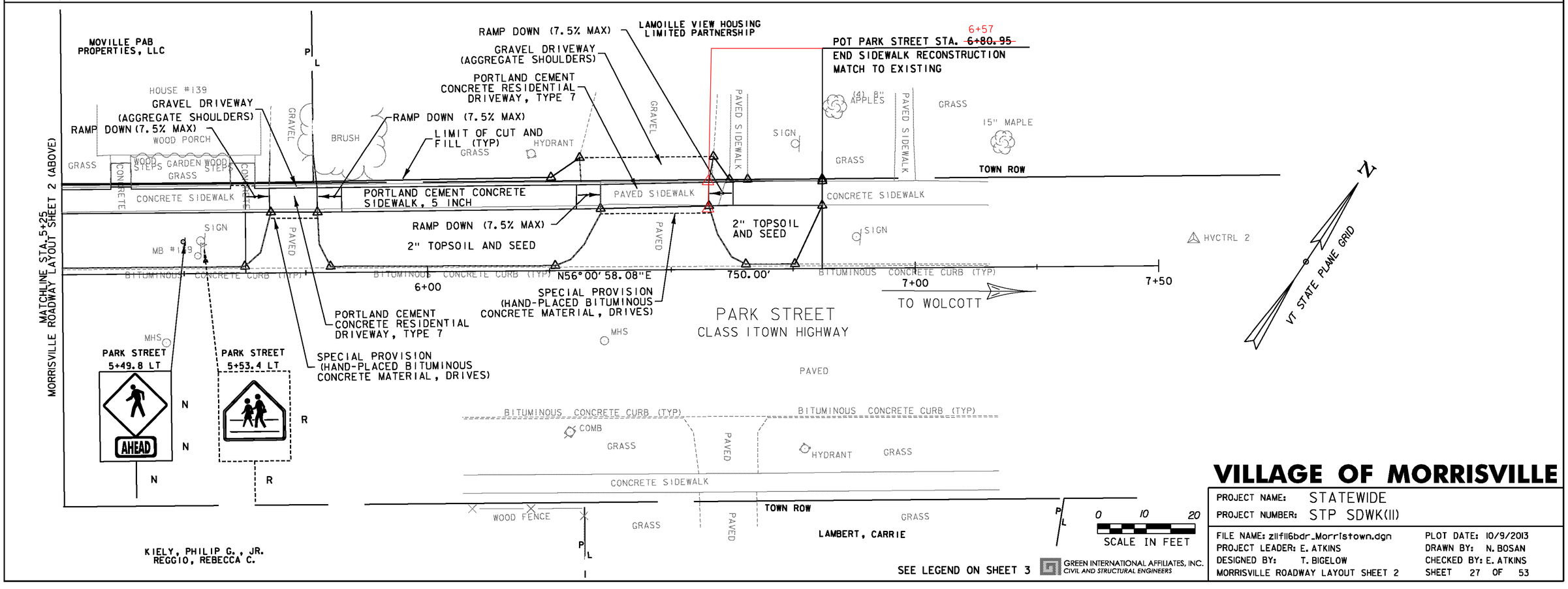
PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
PARK STREET 2+50.0 - 2+73.1LT
PARK STREET 2+73.1- 4+07.5 LT
PARK STREET 4+07.5 - 4+33.3 LT
PARK STREET - 4+33.3 - 4+95.9 LT
PARK STREET 4+95.9 - 5+17.2 LT
PARK STREET 5+17.2 - 5+62.7 LT
PARK STREET 5+62.7 - 5+82.5 LT
PARK STREET 5+82.5 - 6+30.6 LT
PARK STREET 6+30.6 - 6+62.8 LT
PARK STREET 6+62.8 - 6+71.0 LT

SEED
PARK STREET 2+68.1- 4+12.6 LT
PARK STREET 2+68.1- 4+12.6 LT
PARK STREET 4+28.3 - 5+00.9 LT
PARK STREET 4+28.3 - 5+00.9 LT
PARK STREET 5+12.2 - 5+67.7 LT
PARK STREET 5+12.2 - 5+67.9 LT
PARK STREET 5+76.6 - 6+31.8 LT
PARK STREET 5+77.5 - 6+35.6 LT
PARK STREET 6+57.8 - 6+71.0 LT
PARK STREET 6+57.8 - 6+71.0 LT

REMOVING SIGNS
PARK STREET - 5+53.4 LT

SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)
PARK STREET 2+50.0 - 2+68.1LT
PARK STREET 4+12.6 - 4+28.3 LT
PARK STREET 4+51.7 - 4+55.8 LT
PARK STREET 4+81.3 - 4+85.6 LT
PARK STREET 5+00.9 - 5+12.2 LT
PARK STREET 5+67.9 - 5+77.5 LT
PARK STREET 6+35.6 - 6+57.8 LT
PARK STREET 6+62.1- 6+65.8 LT





SEE LEGEND ON SHEET 3

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

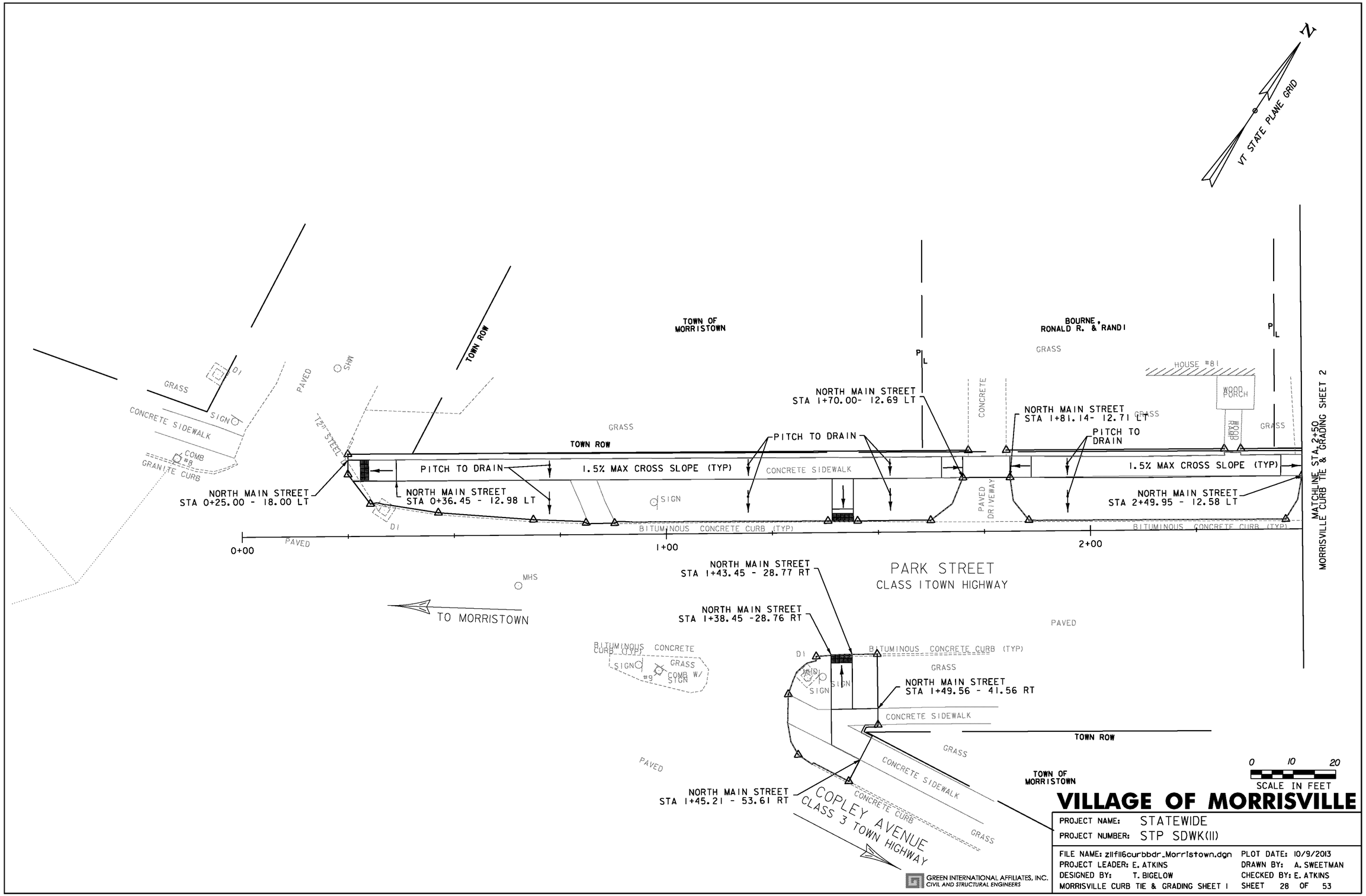
SCALE IN FEET 0 10 20

VILLAGE OF MORRISVILLE

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f116bdr_Morristown.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
MORRISVILLE ROADWAY LAYOUT SHEET 2

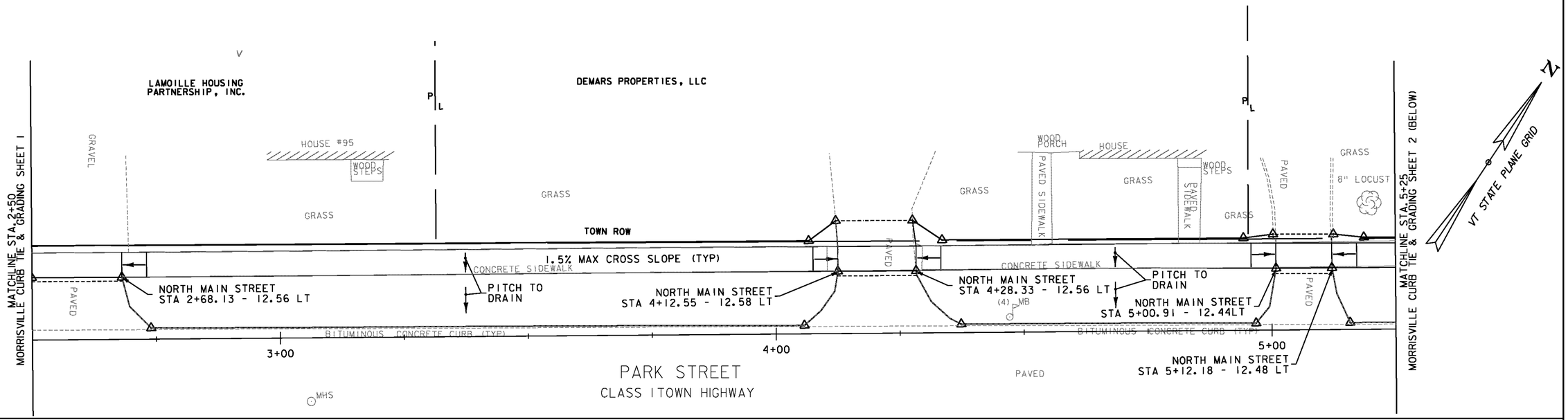
PLOT DATE: 10/9/2013
DRAWN BY: N. BOSAN
CHECKED BY: E. ATKINS
SHEET 27 OF 53

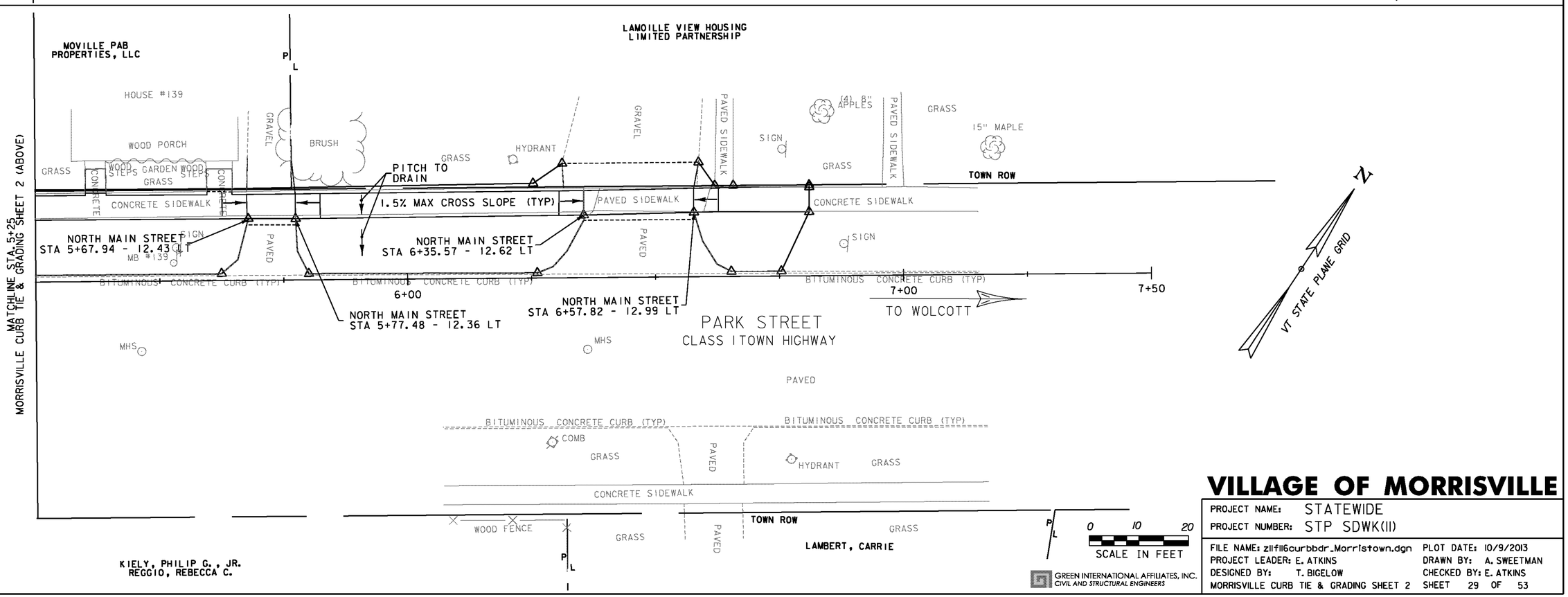


VILLAGE OF MORRISVILLE

PROJECT NAME: STATEWIDE	
PROJECT NUMBER: STP SDWK(11)	
FILE NAME: z11f116curbbdr_Morristown.dgn	PLOT DATE: 10/9/2013
PROJECT LEADER: E. ATKINS	DRAWN BY: A. SWEETMAN
DESIGNED BY: T. BIGELOW	CHECKED BY: E. ATKINS
MORRISVILLE CURB TIE & GRADING SHEET 1	SHEET 28 OF 53

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS





GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

VILLAGE OF MORRISVILLE

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f116curbbdr_Morristown.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
MORRISVILLE CURB TIE & GRADING SHEET 2

PLOT DATE: 10/9/2013
DRAWN BY: A. SWEETMAN
CHECKED BY: E. ATKINS
SHEET 29 OF 53

GPS CONTROL POINTS

RANDOLPH CORS ARP

PID DJ8951

N = 524583.45
E = 1613715.07
ELLIP HEIGHT = 1329.21

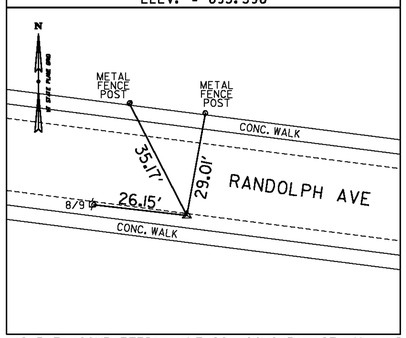
STATION IS A GPS CONTINOUSLY OPERATING REFERENCE STATION. STATION IS THE ANTENNA REFERENCE POINT OF THE GPS ANTENNA. THE ANTENNA IS MOUNTED ON THE ROOF OF GREEN HALL, ON THE CAMPUS OF VERMONT TECHNICAL COLLEGE, RANDOLPH, VT. THE MONUMENT IS ATTACHED TO A TWO STORY CONCRETE/BRICK BUILDING WITH A 10 FT CONCRETE FOUNDATION BUILT IN 1969. MAST IS A 1.75 INCH DIA GALV PIPE THAT IS 108 INCHES LONG. THE MAST ATTACHED TO A STEEL MOUNTING FRAME WITH THREE ATTACHMENTS CONSISTING OF 3/8 INCH SS THROUGH BOLTS. THE MOUNTING FRAME IS ATTACHED TO THE BUILDING USING 8 ATTACHMENT POINTS. THE TOP 2 AND BOTTOM 2 ARE 1/2 INCH SS BOLTS SECURED TO THE BRICK OR CONC WITH LEAD ANCHORS. THE MIDDLE 4 ATTACHMENTS ARE THROUGH BOLTED AND CONSIST OF 1/2 INCH SS THREADED ROD AND NUTS.

* DESCRIPTION PROVIDED BY VERMONT AGENCY OF TRANSPORTATION GEODETIC SURVEY UNIT

TRAVERSE TIES

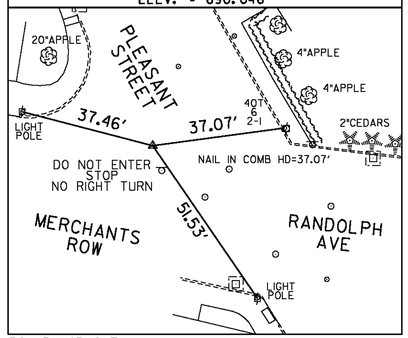
HVCTRL#71

NORTH = 518426.633
EAST = 1598296.860
ELEV. = 695.396



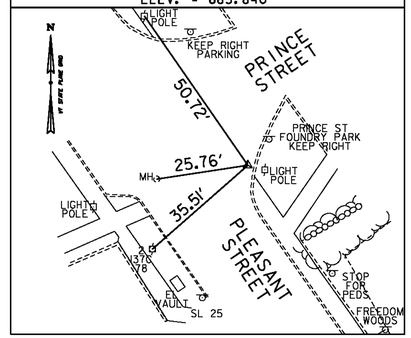
HVCTRL#72

NORTH = 518581.914
EAST = 1597227.223
ELEV. = 690.046



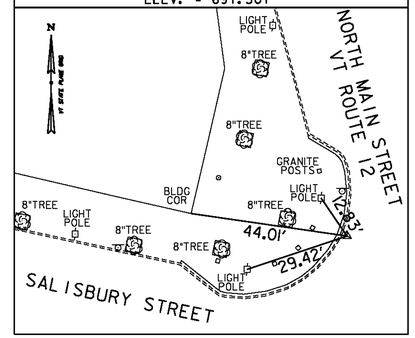
HVCTRL#3

NORTH = 518979.430
EAST = 1597019.412
ELEV. = 683.840



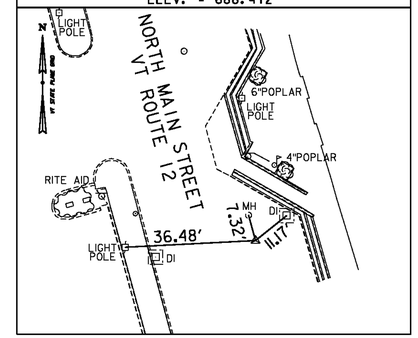
HVCTRL#20

NORTH = 518635.408
EAST = 1596954.042
ELEV. = 691.301



HVCTRL#21

NORTH = 518808.887
EAST = 1596942.909
ELEV. = 688.412

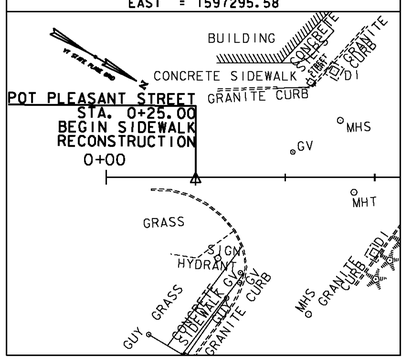


* SURVEY COMPLETED: JUNE 22, 2012 BY VSE, M. HUDSON-PC, B. WRIGHT

ALIGNMENT TIES

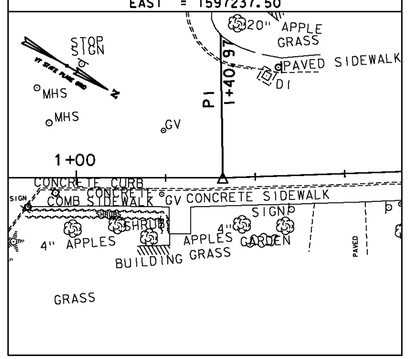
PLEASANT STREET POT STA. 0+25.00

NORTH = 518524.70
EAST = 1597295.58



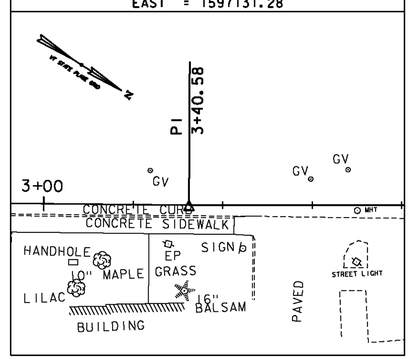
PLEASANT STREET PI STA. 1+40.97

NORTH = 518625.07
EAST = 1597237.50



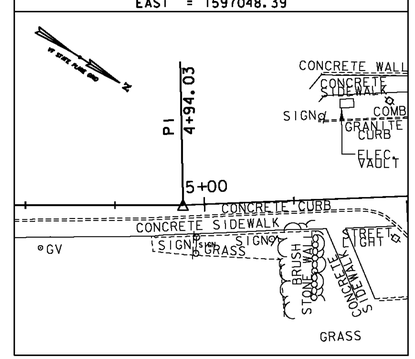
PLEASANT STREET PI STA. 3+40.58

NORTH = 518794.09
EAST = 1597131.28



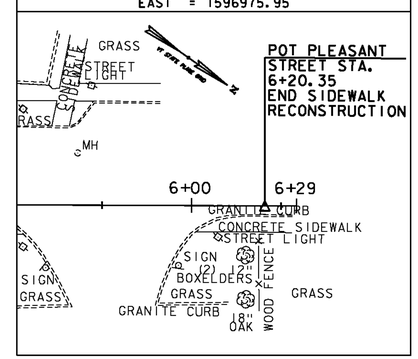
PLEASANT STREET PI STA. 4+94.03

NORTH = 518923.22
EAST = 1597048.39



PLEASANT STREET POT STA. 6+20.35

NORTH = 519026.71
EAST = 1596975.95



RANDOLPH

DATUM	
VERTICAL	NAVD 88(GEOID09) FT
HORIZONTAL	NAD 83(CORS) sFT
ADJUSTMENT	NONE

0 20 40
SCALE IN FEET

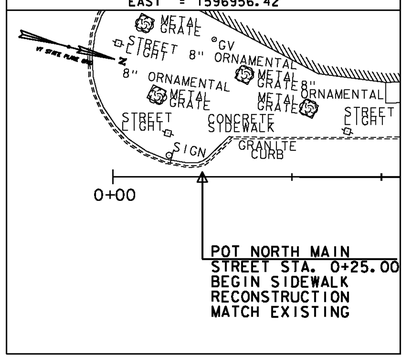
GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

PROJECT NAME: STATEWIDE	
PROJECT NUMBER: STP SDWK(11)	
FILE NAME: z11f1161_Randolph.dgn	PLOT DATE: 10/9/2013
PROJECT LEADER: E. ATKINS	DRAWN BY: S. MUSTO
DESIGNED BY: T. BIGELOW	CHECKED BY: E. ATKINS
RANDOLPH TIE SHEET 1	SHEET 30 OF 53

ALIGNMENT TIES

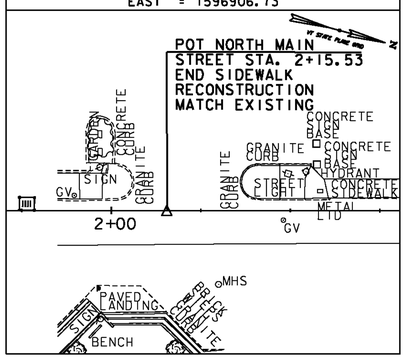
NORTH MAIN STREET POT STA. 0+25.00

NORTH = 518658.59
EAST = 1596956.42



NORTH MAIN STREET POT STA. 2+15.53

NORTH = 518842.54
EAST = 1596906.73



DATUM	
VERTICAL	NAVD 88(GEOID09) FT
HORIZONTAL	NAD 83(CORS) sFT
ADJUSTMENT	NONE

0 20 40
SCALE IN FEET

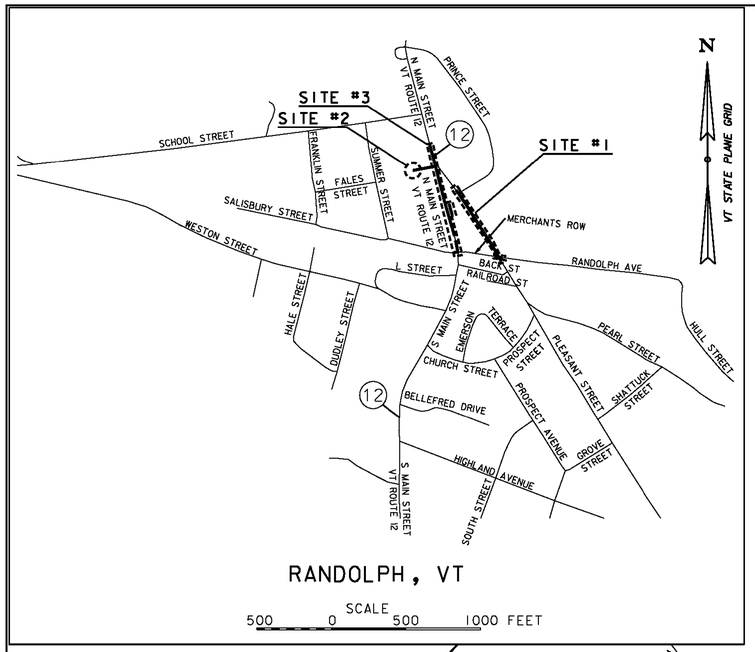
GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

RANDOLPH

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f1161_Randolph.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
RANDOLPH TIE SHEET 2

PLOT DATE: 10/9/2013
DRAWN BY: S. MUSTO
CHECKED BY: E. ATKINS
SHEET 31 OF 53



REMOVAL OF EXISTING SIDEWALK (SOLID ROCK EXCAVATION)

PLEASANT ST 0+26.6 - 0+38.8 RT
PLEASANT ST 0+85.3 - 1+02.8 RT
PLEASANT ST 1+25.9 - 1+61.7 RT
PLEASANT ST 1+30.7 - 1+54.9 LT
PLEASANT ST 2+58.9 - 3+25.0 RT

VERTICAL GRANITE CURB

PLEASANT ST 0+32.3 - 0+39.4 RT
PLEASANT ST 1+30.3 - 1+54.9 LT

PRECAST REINFORCED CONCRETE CURB, TYPE B

PLEASANT ST 0+82.1 - 0+85.3 RT
PLEASANT ST 0+91.2 - 1+02.7 RT
PLEASANT ST 1+25.9 - 1+61.8 RT
PLEASANT ST 2+58.9 - 2+76.7 RT
PLEASANT ST 2+88.6 - 3+25.0 RT

REMOVAL OF EXISTING CURB

PLEASANT ST 0+32.3 - 0+39.4 RT
PLEASANT ST 0+82.1 - 1+02.7 RT
PLEASANT ST 1+25.9 - 1+61.8 RT
PLEASANT ST 1+30.4 - 1+54.9 LT
PLEASANT ST 2+58.9 - 2+76.7 RT
PLEASANT ST 2+88.6 - 3+25.0 RT

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH

PLEASANT ST 0+26.6 - 0+38.8 RT
PLEASANT ST 0+85.3 - 1+02.8 RT
PLEASANT ST 1+25.9 - 1+61.7 RT
PLEASANT ST 1+30.7 - 1+54.9 LT
PLEASANT ST 2+58.9 - 2+70.1 RT
PLEASANT ST 2+97.7 - 3+25.0 RT

PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH

PLEASANT ST 2+70.1 - 2+97.7 RT

5 INCH SIDEWALK RAMP WITH DETECTABLE WARNING SURFACE

PLEASANT ST 0+37.8 RT (TYPE 1)
PLEASANT ST 0+90.2 RT (TYPE 1)
PLEASANT ST 1+46.3 LT (TYPE 6)
PLEASANT ST 1+47.8 RT (TYPE 5)

DURABLE 24 INCH STOP BAR

PLEASANT ST 0+58.9 - 0+68.3 RT

DURABLE CROSSWALK MARKING

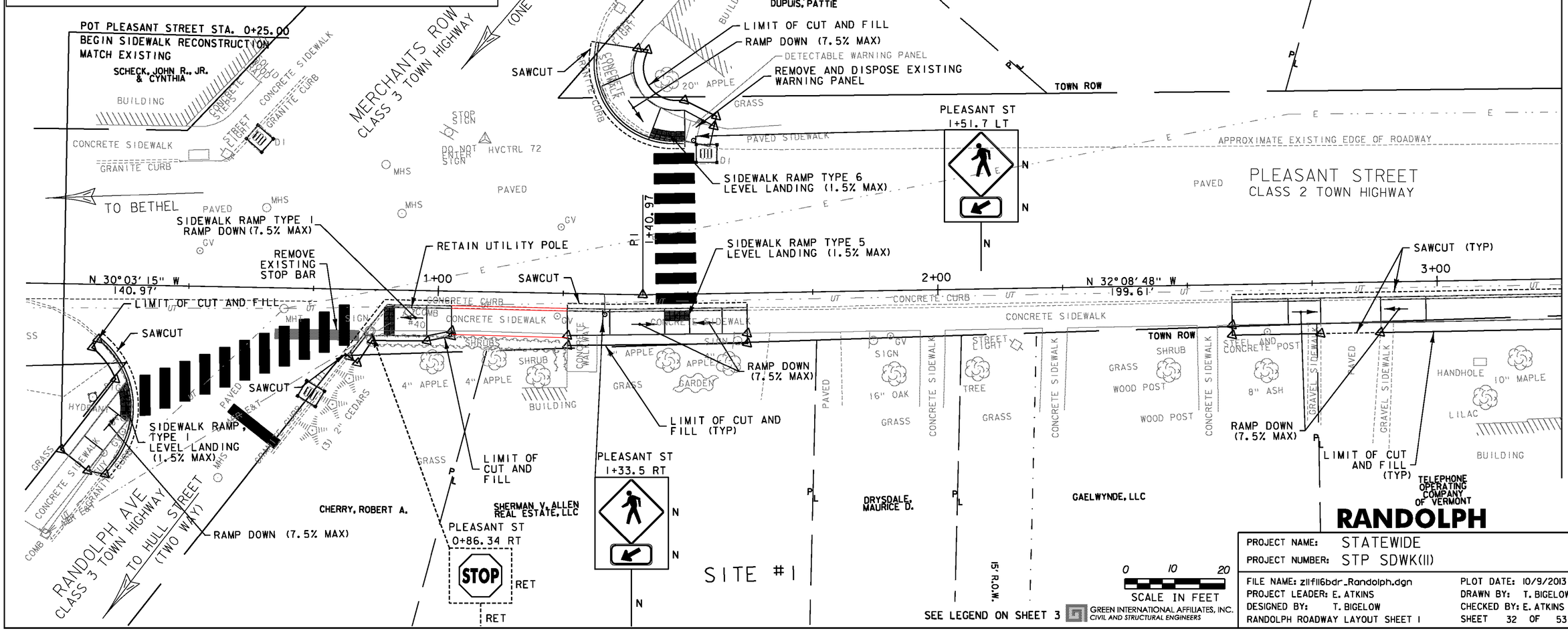
PLEASANT ST 0+40.8 - 0+83.5 RT
PLEASANT ST 1+46.4 - 1+47.8

REMOVAL OF EXISTING PAVEMENT MARKINGS

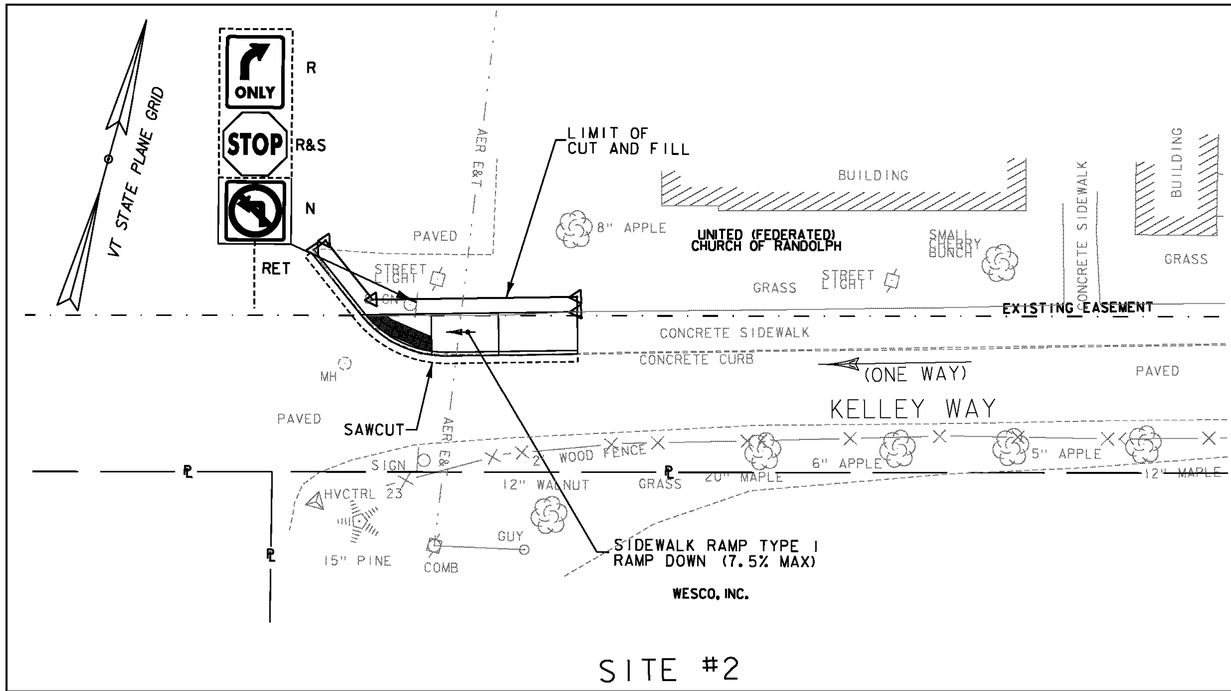
PLEASANT ST 0+40.7 - 0+82.2 RT
PLEASANT ST 0+67.5 - 0+84.2 RT
PLEASANT ST 1+47.7

SEED

PLEASANT ST 0+25.0 - 0+38.0 RT
PLEASANT ST 0+30.5 - 0+38.8 RT
PLEASANT ST 0+82.4 - 1+02.8 RT
PLEASANT ST 1+26.0 - 1+61.7 RT
PLEASANT ST 1+39.9 - 1+54.9 LT
PLEASANT ST 2+58.8 - 2+76.6 RT
PLEASANT ST 2+88.5 - 3+02.7 RT



PROJECT NAME: STATEWIDE	
PROJECT NUMBER: STP SDWK(11)	
FILE NAME: z11f116bdr_Randolph.dgn	PLOT DATE: 10/9/2013
PROJECT LEADER: E. ATKINS	DRAWN BY: T. BIGELOW
DESIGNED BY: T. BIGELOW	CHECKED BY: E. ATKINS
RANDOLPH ROADWAY LAYOUT SHEET 1	SHEET 32 OF 53



SITE #2

REMOVAL OF EXISTING SIDEWALK (SOLID ROCK EXCAVATION)

PLEASANT ST 3+25.0 - 4+96.4 RT
PLEASANT ST 5+26.9 - 5+53.5 RT
PLEASANT ST 5+39.1 - 5+72.6 LT
PLEASANT ST 6+00.7 - 6+20.3 RT
SITE 2 - KELLEY WAY - 15.0 SY

VERTICAL GRANITE CURB

PLEASANT ST 5+39.1 - 5+72.7 LT
PLEASANT ST 5+91.4 - 6+20.4 RT

PRECAST REINFORCED CONCRETE CURB, TYPE B

PLEASANT ST 3+25.0 - 3+58.5 RT
PLEASANT ST 3+81.3 - 3+93.0 RT
PLEASANT ST 4+21.8 - 4+45.8 RT
PLEASANT ST 4+85.1 - 4+96.3 RT
PLEASANT ST 5+26.9 - 5+58.2 RT
SITE 2 - KELLEY WAY - 41.4 LF

REMOVAL OF EXISTING CURB

PLEASANT ST 3+25.0 - 3+58.5 RT
PLEASANT ST 3+81.3 - 3+93.0 RT
PLEASANT ST 4+21.8 - 4+45.8 RT
PLEASANT ST 4+85.1 - 4+96.3 RT
PLEASANT ST 5+26.8 - 5+58.2 RT
PLEASANT ST 5+39.1 - 5+72.7 LT
PLEASANT ST 5+91.4 - 6+20.4 RT
SITE 2 - KELLEY WAY - 41.4 LF

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH

PLEASANT ST 3+25.0 - 3+49.5 RT
PLEASANT ST 3+84.5 - 3+88.5 RT
PLEASANT ST 4+28.3 - 4+34.8 RT
PLEASANT ST 4+91.6 - 4+96.3 RT
PLEASANT ST 5+26.8 - 5+53.5 RT
PLEASANT ST 5+40.7 - 5+72.6 LT
PLEASANT ST 6+00.3 - 6+20.3 RT
SITE 2 - KELLEY WAY - 15.0 SY

PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH

PLEASANT ST 3+49.5 - 3+84.5 RT
PLEASANT ST 3+88.5 - 4+28.3 RT
PLEASANT ST 4+34.8 - 4+91.6 RT

5 INCH SIDEWALK RAMP WITH DETECTABLE WARNING SURFACE

PLEASANT ST 5+48.1LT (TYPE 5)
PLEASANT ST 5+50.5 RT (TYPE 1)
PLEASANT ST 6+05.1RT (TYPE 1)
SITE 2 - KELLEY WAY - 18 SF (TYPE 1)

DURABLE 24 INCH STOP BAR

PLEASANT ST 5+78.1 - 5+94.7 RT

DURABLE CROSSWALK MARKING

PLEASANT ST 5+50.6

REMOVAL OF EXISTING PAVEMENT MARKINGS

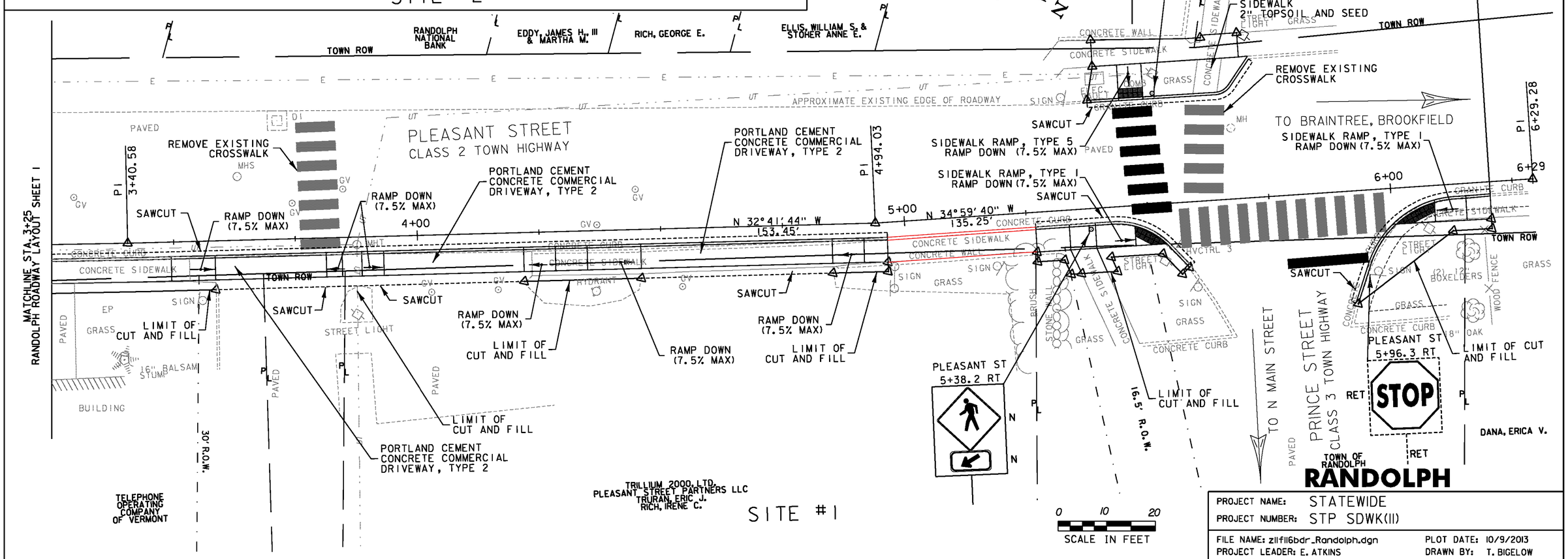
PLEASANT ST 3+79.7
PLEASANT ST 5+61.9 - 5+63.0 LT
PLEASANT ST 5+50.8

SEED

PLEASANT ST 3+44.4 - 3+58.5 RT
PLEASANT ST 4+21.8 - 4+45.8 RT
PLEASANT ST 4+85.1 - 4+96.1RT
PLEASANT ST 5+26.8 - 5+35.7 RT
PLEASANT ST 5+39.1 - 5+57.8 RT
PLEASANT ST 5+39.1 - 5+72.5 LT
PLEASANT ST 5+91.8 - 6+20.3 RT
SITE 2 - KELLEY WAY - 67.7 SF

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

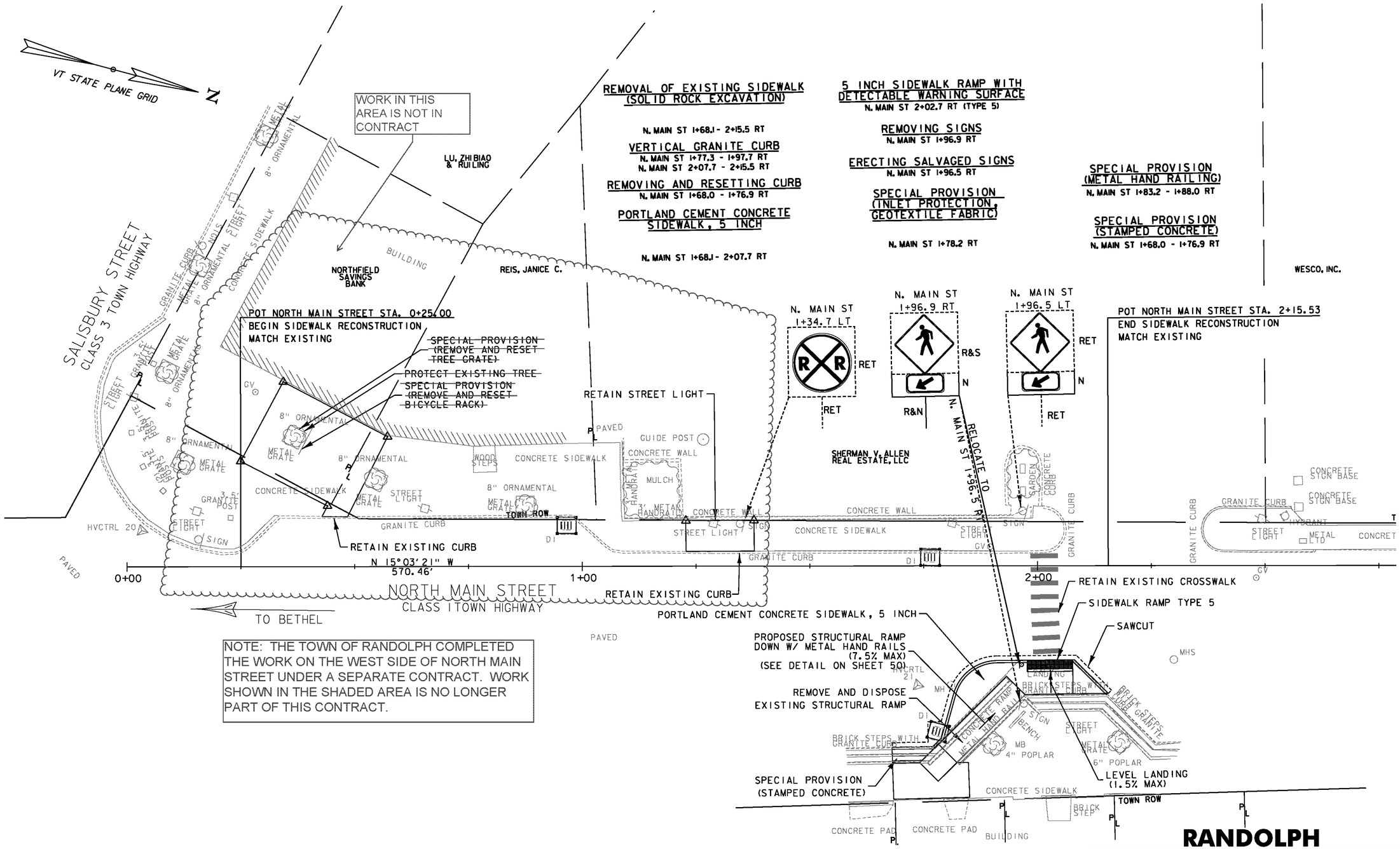
PLEASANT ST 3+58.4 - 3+81.3 RT
PLEASANT ST 3+93.0 - 4+21.8 RT
PLEASANT ST 4+45.8 - 4+85.1RT



SEE LEGEND ON SHEET 3

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

PROJECT NAME: STATEWIDE	
PROJECT NUMBER: STP SDWK(11)	
FILE NAME: z11f116bdr_Randolph.dgn	PLOT DATE: 10/9/2013
PROJECT LEADER: E. ATKINS	DRAWN BY: T. BIGELOW
DESIGNED BY: T. BIGELOW	CHECKED BY: E. ATKINS
RANDOLPH ROADWAY LAYOUT SHEET 2	SHEET 33 OF 53



NOTE: THE TOWN OF RANDOLPH COMPLETED THE WORK ON THE WEST SIDE OF NORTH MAIN STREET UNDER A SEPARATE CONTRACT. WORK SHOWN IN THE SHADED AREA IS NO LONGER PART OF THIS CONTRACT.

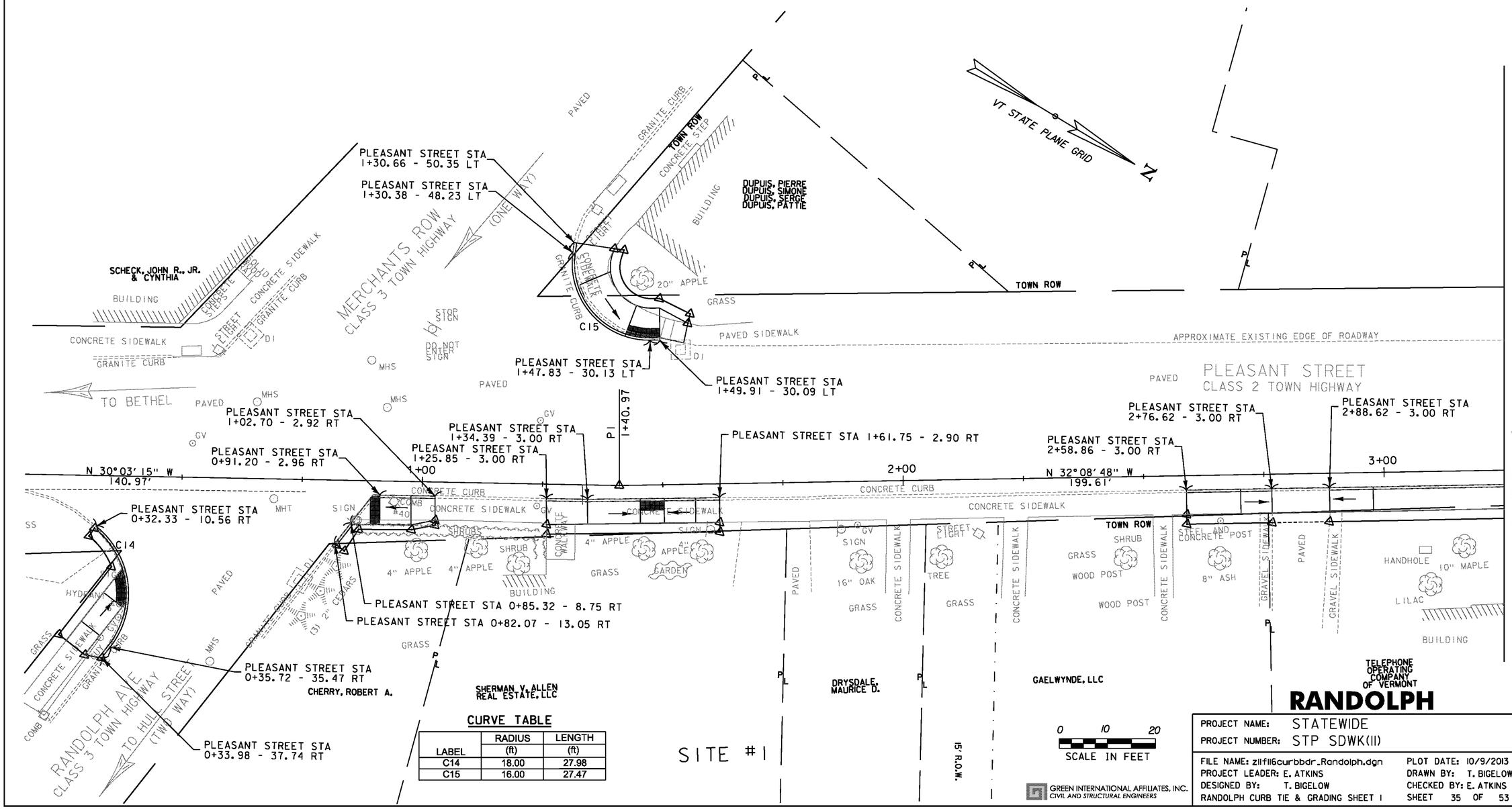
SITE #3

SEE LEGEND ON SHEET 3

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

RANDOLPH

PROJECT NAME: STATEWIDE	
PROJECT NUMBER: STP SDWK(11)	
FILE NAME: z11f116bdr_Randolph.dgn	PLOT DATE: 10/9/2013
PROJECT LEADER: E. ATKINS	DRAWN BY: T. BIGELOW
DESIGNED BY: T. BIGELOW	CHECKED BY: E. ATKINS
RANDOLPH ROADWAY LAYOUT SHEET 3	SHEET 34 OF 53



CURVE TABLE

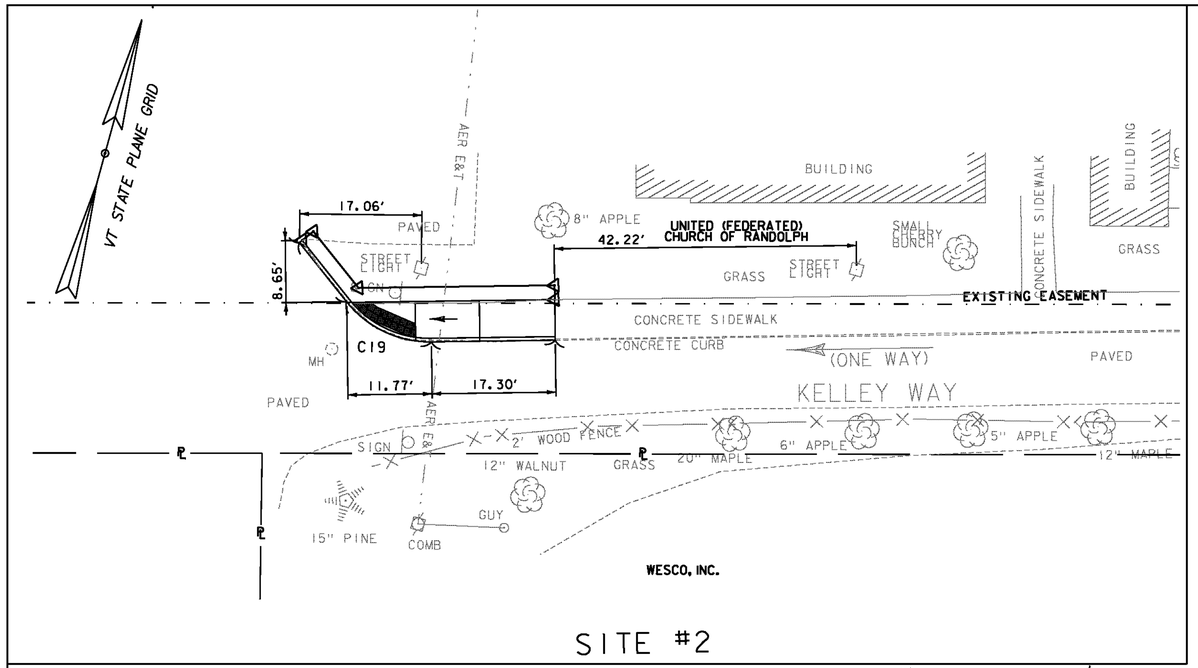
LABEL	RADIUS (ft)	LENGTH (ft)
C14	18.00	27.98
C15	16.00	27.47

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

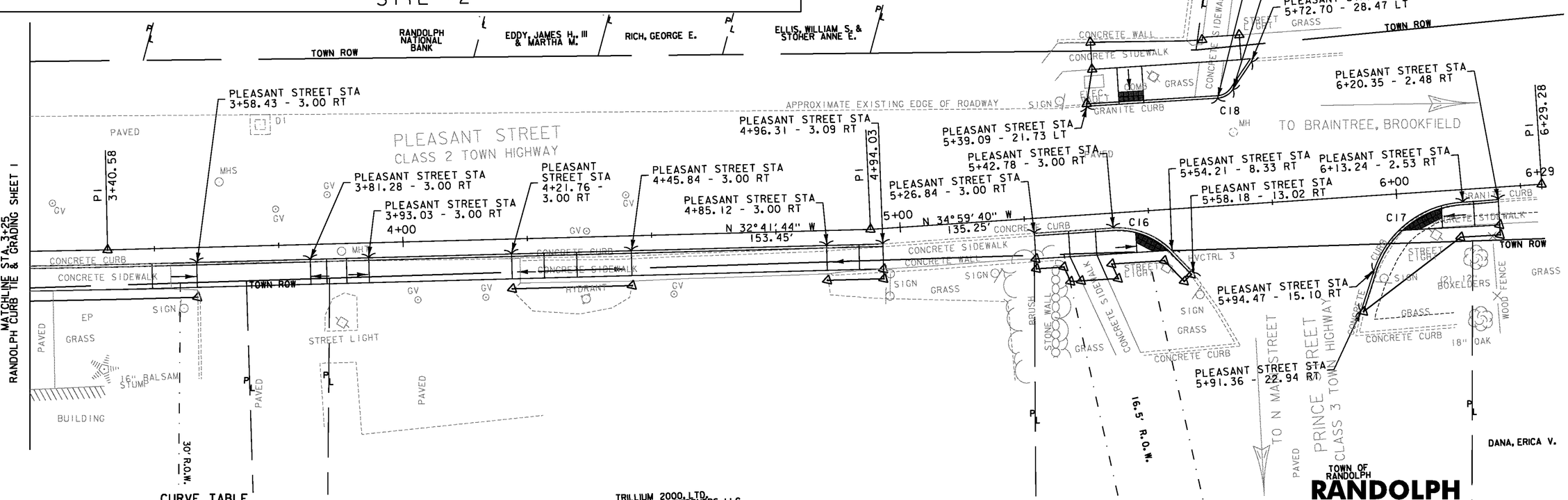
PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f116curbbdr_Randolph.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
RANDOLPH CURB TIE & GRADING SHEET 1

PLOT DATE: 10/9/2013
DRAWN BY: T. BIGELOW
CHECKED BY: E. ATKINS
SHEET 35 OF 53



SITE #2



SITE #1

CURVE TABLE

LABEL	RADIUS (ft)	LENGTH (ft)
C16	15.00	13.07
C17	20.00	24.02
C18	4.00	3.66
C19	15.00	13.56

0 10 20
SCALE IN FEET

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f116curbbdr_Randolph.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
RANDOLPH CURB TIE & GRADING SHEET 2

PLOT DATE: 10/9/2013
DRAWN BY: A. SWEETMAN
CHECKED BY: E. ATKINS
SHEET 36 OF 53

WORK IN THIS AREA IS NOT IN CONTRACT

SALISBURY STREET
CLASS 3 TOWN HIGHWAY

NORTHFIELD SAVINGS BANK

BUILDING

REIS, JANICE C.

SHERMAN V. ALLEN REAL ESTATE, LLC

WESCO, INC.

VT STATE PLANE GRID

POT NORTH MAIN STREET STA. 0+25.00
BEGIN SIDEWALK RECONSTRUCTION
MATCH EXISTING

POT NORTH MAIN STREET STA. 2+15.53
END SIDEWALK RECONSTRUCTION
MATCH EXISTING

NORTH MAIN STREET STA 0+25.00 - 23.17 LT

NORTH MAIN STREET STA 0+42.84 - 11.01 RT

NORTH MAIN STREET STA 0+48.45 - 10.95 LT

N 15°03'21" W
570.46'

NORTH MAIN STREET STA 1+22.79 -3.25 LT

NORTH MAIN STREET STA 1+37.79 - 3.31 LT

NORTH MAIN STREET STA 1+97.72 - 20.75 RT

NORTH MAIN STREET STA 1+99.07 - 20.65 RT

NORTH MAIN STREET STA 1+81.52 - 29.96 RT

NORTH MAIN STREET STA 1+78.83-37.65 RT

NORTH MAIN STREET STA 1+76.92-39.54 RT

NORTH MAIN STREET STA 1+68.00-39.66 RT

NORTH MAIN STREET STA 2+07.71- 20.67 RT

NORTH MAIN STREET STA 2+08.09 - 20.66 RT

NORTH MAIN STREET STA 2+15.53 - 28.06

NORTH MAIN STREET
CLASS I TOWN HIGHWAY

TO BETHEL

NOTE: THE TOWN OF RANDOLPH COMPLETED THE WORK ON THE WEST SIDE OF NORTH MAIN STREET UNDER A SEPERATE CONTRACT. WORK SHOWN IN THE SHADED AREA IS NO LONGER PART OF THIS CONTRACT.

RANDOLPH NATIONAL BANK

EDDY, JAMES H., III & MARTHA M.

RICH, GEORGE E.

ELLIS, WILLIAM S. & STOHER ANNE E.

CURVE TABLE

LABEL	RADIUS (ft)	LENGTH (ft)
C20	10.00	12.91

0 10 20
SCALE IN FEET

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

RANDOLPH

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f116curbbdr_Randolph.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
RANDOLPH CURB TIE & GRADING SHEET 3

PLOT DATE: 10/9/2013
DRAWN BY: A. SWEETMAN
CHECKED BY: E. ATKINS
SHEET 37 OF 53

GPS CONTROL POINTS

RUTLAND CORS ARP

PID DK4109

N = 403876.10
E = 1513436.07
ELLIP HEIGHT = 529.69

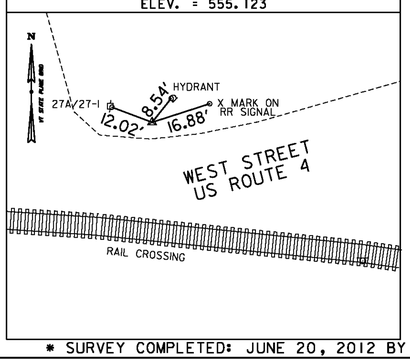
STATION IS A GPS CONTINOUSLY OPERATING REFERENCE STATION. STATION IS THE ANTENNA REFERENCE POINT OF THE GPS ANTENNA. THE MONUMENT IS ATTACHED TO A FIVE STORY CONCRETE BUILDING WITH A 8 FT CONCRETE FOUNDATION. THIS PORTION OF THE BUILDING HOUSES THE STAIRWELL AND ELEVATOR SHAFT FOR A PARKING GARAGE. THE BUILDING WAS BUILT IN 1999. THE MAST IS A 1.75 INCH DIA GALV PIPE THAT IS 108 INCHES LONG. THE MAST IS FIELD WELDED TO THREE STEEL MOUNTING STRUTS. THE TOP STRUT IS ATTACHED TO THE CONCRETE BUILDING WITH TWO 1/2 INCH SS BOLTS SECURED LEAD ANCHORS. THE OTHER TWO STRUTS ARE ATTACHED WITH 2 THROUGH BOLTS THAT CONSIST OF 1/2 INCH SS THREADED RODS AND NUTS.

* DESCRIPTION PROVIDED BY VERMONT AGENCY OF TRANSPORTATION GEODETIC SURVEY UNIT

TRAVERSE TIES

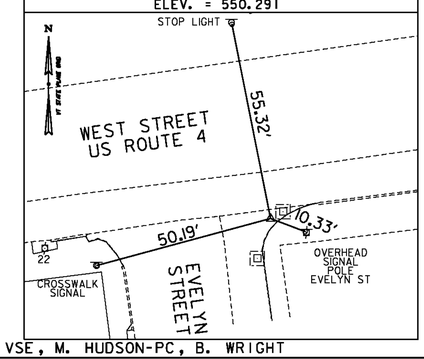
HVCTRL#21

NORTH = 403999.922
EAST = 1512056.491
ELEV. = 555.123



HVCTRL#22

NORTH = 404054.614
EAST = 1512782.057
ELEV. = 550.291



* SURVEY COMPLETED: JUNE 20, 2012 BY VSE, M. HUDSON-PC, B. WRIGHT

DATUM	
VERTICAL	NAVD 88(GEOID09) FT
HORIZONTAL	NAD 83(CORS) sFT
ADJUSTMENT	NONE

0 20 40
SCALE IN FEET

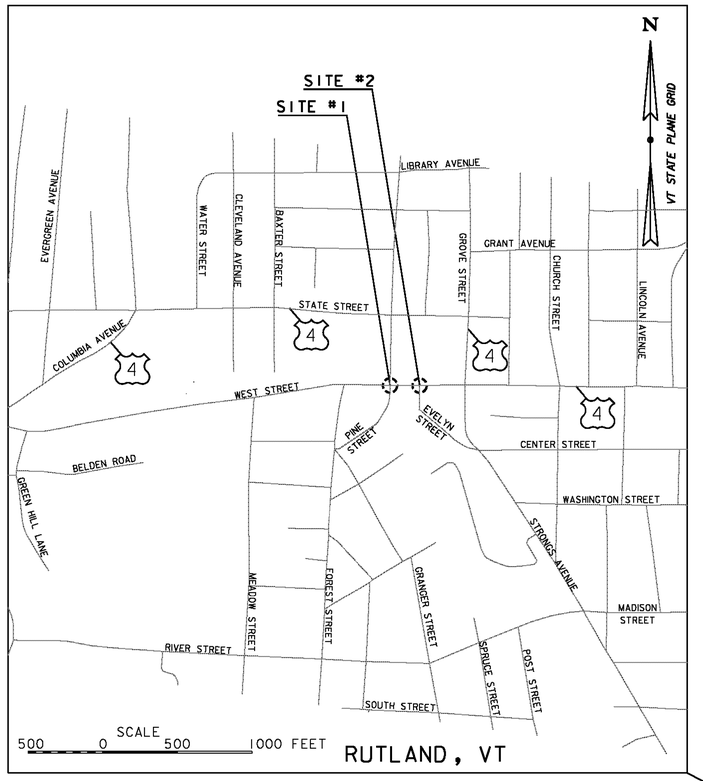
GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

RUTLAND

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f116t1_Rutland.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
RUTLAND TIE SHEET

PLOT DATE: 10/9/2013
DRAWN BY: S. MUSTO
CHECKED BY: E. ATKINS
SHEET 38 OF 53



REMOVE EXISTING SIDEWALK (SOLID ROCK EXCAVATION)

SITE 1 - 46.22 SY
SITE 2 (L) - 41.50 SY
SITE 2 (R) - 39.76 SY

PRECAST REINFORCED CONCRETE CURB, TYPE B

SITE 1 - 57 LF
SITE 2 (L) - 54 LF
SITE 2 (R) - 54 LF

REMOVAL OF EXISTING CURB

SITE 1 - PINE STREET - 9 LF
SITE 1 - WEST ST - 25 LF
SITE 2 - WEST ST - 10 LF
SITE 2 - WEST ST - 12 LF
SITE 2 - EVELYN ST - 16 LF

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH

SITE 1 - 46.23 SY
SITE 2 (L) - 42.42 SY
SITE 2 (R) - 39.76 SY

5 INCH SIDEWALK RAMP WITH DETECTABLE WARNING SURFACE

SITE 1 - 31 SF
SITE 2 (L) - 30 SF
SITE 2 (R) - 20 SF

DURABLE 24 INCH STOP BAR

SITE 2 - 22 LF

DURABLE CROSSWALK MARKING

SITE 2 - 38 LF

REMOVAL OF EXISTING PAVEMENT MARKINGS

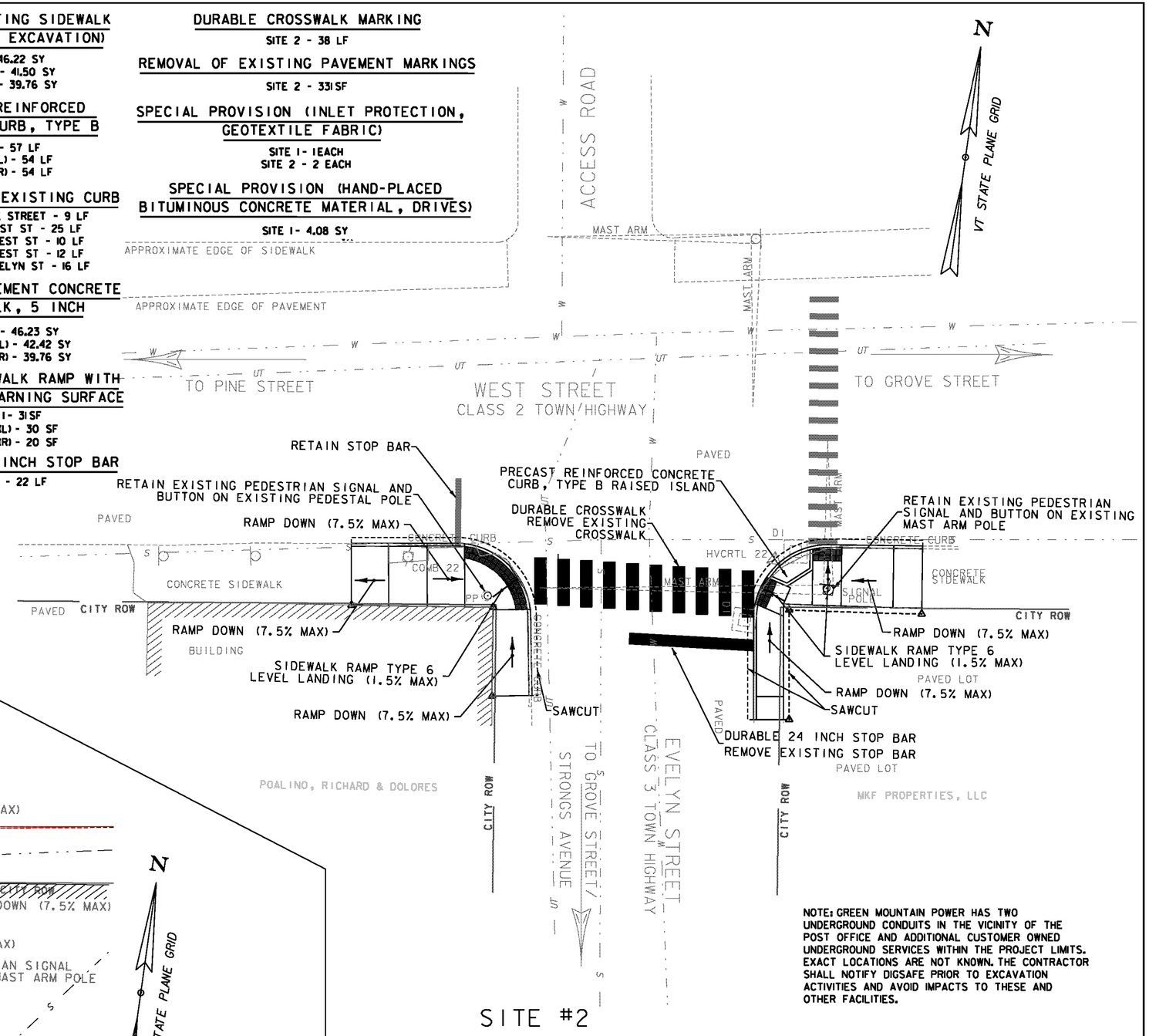
SITE 2 - 331 SF

SPECIAL PROVISION (INLET PROTECTION, GEOTEXTILE FABRIC)

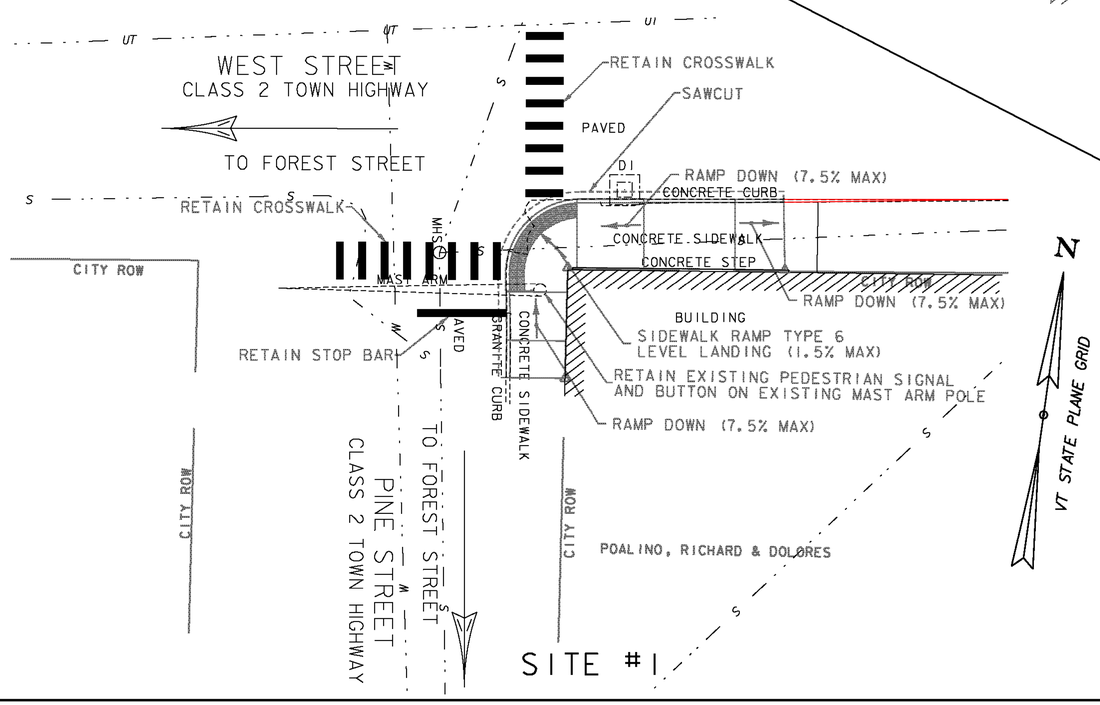
SITE 1 - 1 EACH
SITE 2 - 2 EACH

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

SITE 1 - 4.08 SY



NOTE: GREEN MOUNTAIN POWER HAS TWO UNDERGROUND CONDUITS IN THE VICINITY OF THE POST OFFICE AND ADDITIONAL CUSTOMER OWNED UNDERGROUND SERVICES WITHIN THE PROJECT LIMITS. EXACT LOCATIONS ARE NOT KNOWN. THE CONTRACTOR SHALL NOTIFY DIGSAFE PRIOR TO EXCAVATION ACTIVITIES AND AVOID IMPACTS TO THESE AND OTHER FACILITIES.



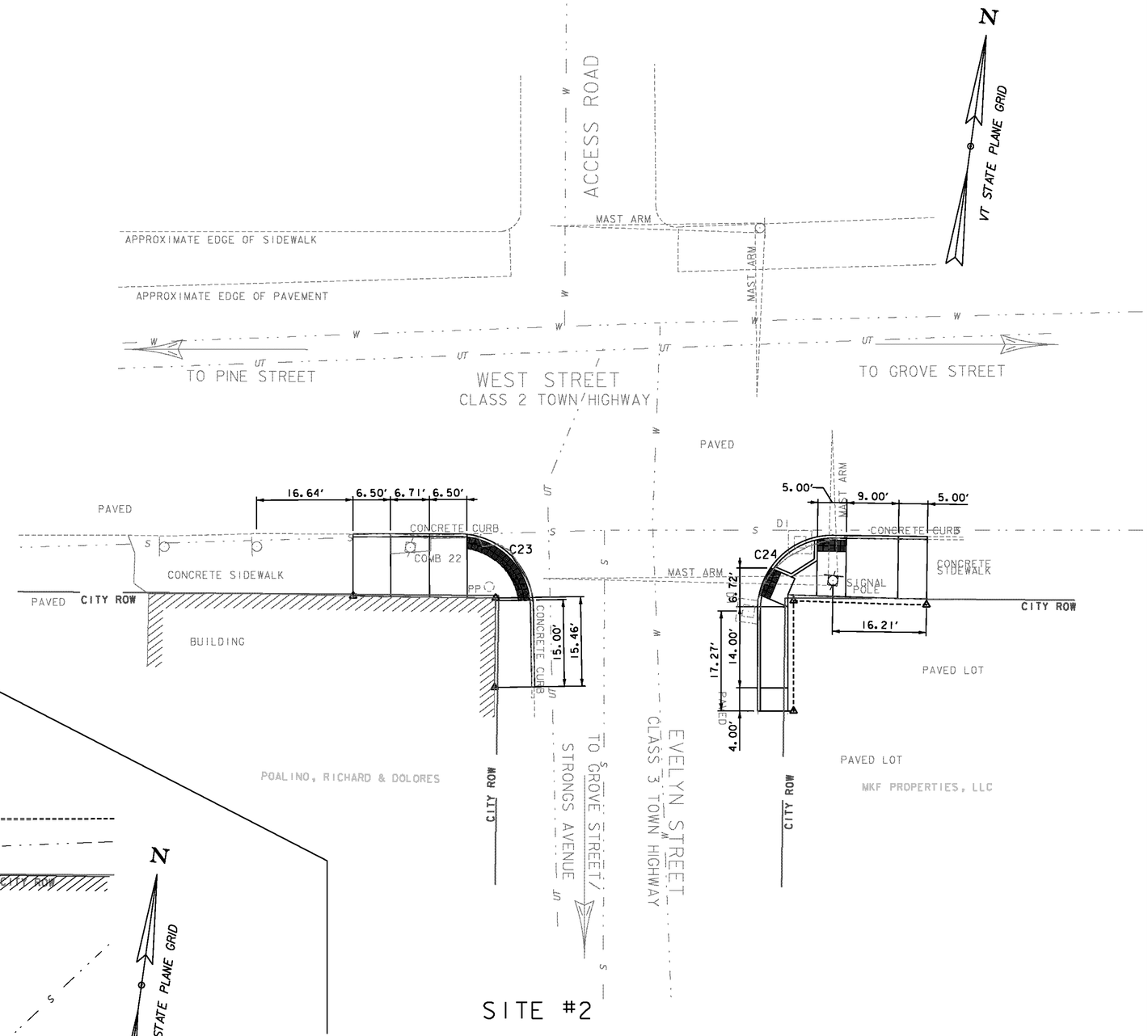
0 10 20
SCALE IN FEET

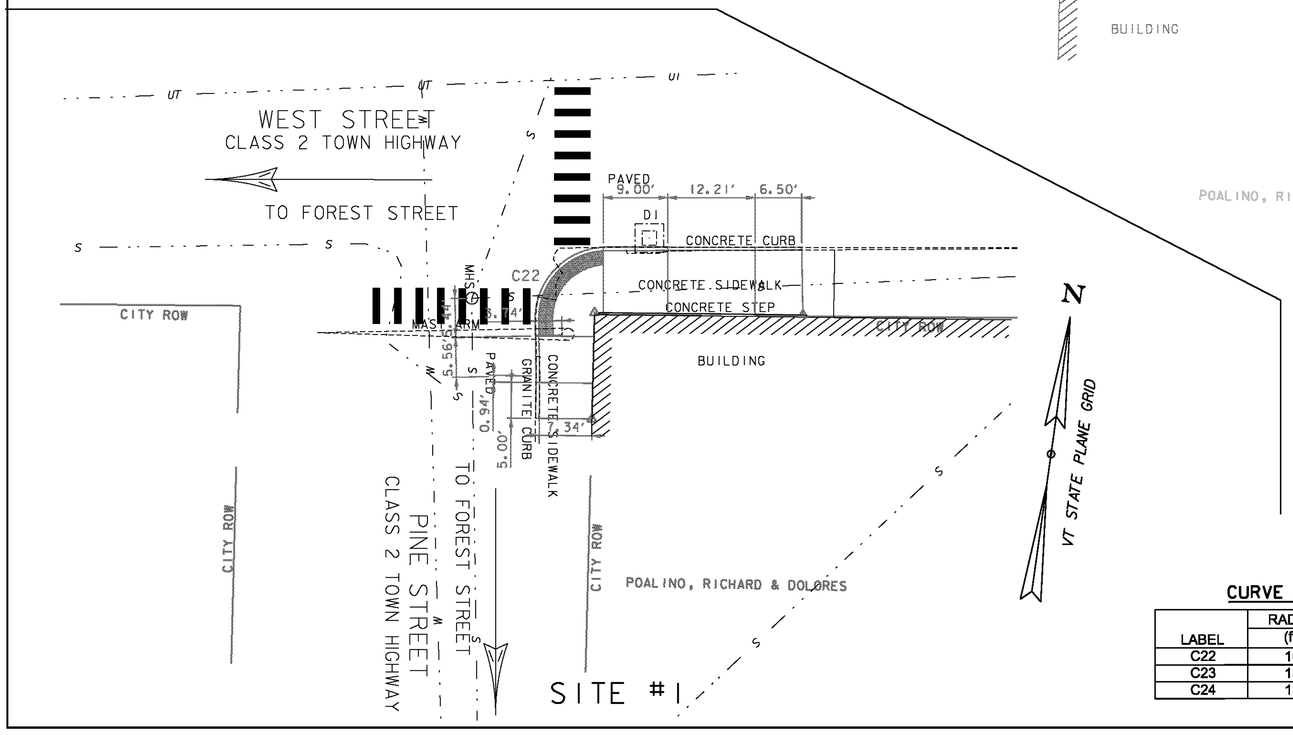
SEE LEGEND ON SHEET 3

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

RUTLAND

PROJECT NAME: STATEWIDE	
PROJECT NUMBER: STP SDWK(11)	
FILE NAME: z11f116bdr_Rutland.dgn	PLOT DATE: 10/9/2013
PROJECT LEADER: E. ATKINS	DRAWN BY: N. BOSAN
DESIGNED BY: T. BIGELOW	CHECKED BY: E. ATKINS
RUTLAND ROADWAY LAYOUT SHEET	SHEET 39 OF 53





CURVE TABLE

LABEL	RADIUS (ft)	LENGTH (ft)
C22	10.00	15.88
C23	13.00	20.25
C24	13.00	20.60

0 10 20
SCALE IN FEET

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

RUTLAND

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f116curbbdr_Rutland.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
RUTLAND CURB TIE & GRADING SHEET

PLOT DATE: 10/9/2013
DRAWN BY: N. BOSAN
CHECKED BY: E. ATKINS
SHEET 40 OF 53

THIS PAGE INTENTIONALLY LEFT BLANK

THIS PAGE INTENTIONALLY LEFT BLANK

THIS PAGE INTENTIONALLY LEFT BLANK

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 1

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	SIGN DIMENSIONS WIDTH (in)	SIGN DIMENSIONS HEIGHT (in)	NEW & SALVAGED SIGNS "A"	NEW & SALVAGED SIGNS "B"	NEW & SALVAGED SIGNS SALV SIGN	NEW & SALVAGED SIGNS SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	FLANGED CHANNEL lb/ft 2.0	FLANGED CHANNEL lb/ft 3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	SQUARE STEEL (in) 2.0 lb/ft 2.42	SQUARE STEEL (in) 2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) 3.0 lb/ft 1.3	TUBULAR ALUMINUM Ø (in) 4.0 lb/ft 1.7	TUBULAR ALUMINUM Ø (in) 4.0 MOD lb/ft 1.7	TUBULAR STEEL Ø (in) FOUND-ATION	TUBULAR STEEL Ø (in) 3.0 lb/ft 7.6	TUBULAR STEEL Ø (in) 3.5 lb/ft 9.0	TUBULAR STEEL Ø (in) 4.0 lb/ft 10.8	TUBULAR STEEL Ø (in) 5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	W-SHAPE STEEL FTG. SIZE 30"	W-SHAPE STEEL WEIGHT	W-SHAPE STEEL POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL S.H.S.M.*	SIGN DETAIL DETAIL ON SHEET NUMBER	SIGN DETAIL STD. SHEET NUMBER
OPTION ITEMS																																				
BRADFORD US ROUTE 5																																				
STATION 1+45.0 RT U.S. ROUTE 5	R7-1L, NO PARKING	1	12	18	1.50						1					X		1															INSTALL NEW SIGN ON NEW POST	X		
STATION 1+59.6 RT U.S. ROUTE 5	W11-2, PEDESTRIAN SYMBOL	1					1				1					X		1															RELOCATE EXISTING SIGN ON NEW POST			
	W16-7P, ARROW, PLAQUE	1					1																										RELOCATE EXISTING SIGN ON NEW POST (SUB-MOUNT)			
STATION 2+07.0 RT U.S. ROUTE 5	R7-1R, NO PARKING	1	12	18	1.50						1					X		1															INSTALL NEW SIGN ON NEW POST	X		
BRISTOL VERMONT ROUTE 17																																				
SITE 1 VT ROUTE 17	W11-2, PEDESTRIAN SYMBOL (SEE PLAN FOR LOCATION)	2	30	30	12.50						2					X		1															INSTALL NEW SIGN ON NEW POST	X		
	W16-7P, ARROW, PLAQUE	2	24	12	4.00																												INSTALL NEW SIGN ON NEW POST (SUB-MOUNT)	X		
SITE 2 VT ROUTE 17	W11-2, PEDESTRIAN SYMBOL (SEE PLAN FOR LOCATION)	2	30	30	12.50						2					X		1															INSTALL NEW SIGN ON NEW POST	X		
	W16-7P, ARROW, PLAQUE	2	24	12	4.00																												INSTALL NEW SIGN ON NEW POST (SUB-MOUNT)	X		
SITE 2 VT ROUTE 17	W7-8, RESERVED PARKING	1	12	18	1.50						1					X		1															INSTALL NEW SIGN ON NEW POST	X		
BURLINGTON																																				
SITE 1 COLLEGE STREET	R7-8, RESERVED PARKING	1					1				1		X					1															RELOCATE EXISTING SIGN ON NEW POST			
	R7-201P, TOW-AWAY ZONE (PLAQUE)	1					1																										RELOCATE EXISTING SIGN ON NEW POST (SUB-MOUNT WITH THE PREVIOUS SIGN)			
SITE 7 PEARL STREET	W11-2, PEDESTRIAN SYMBOL	1	30	30	6.25						1		X					1															INSTALL NEW SIGN ON NEW POST	X		
	W16-7P, ARROW, PLAQUE	1	24	12	2.00																												INSTALL NEW SIGN ON NEW POST (SUB-MOUNT)	X		
												FT	FT 22.50	FT	FT	FT 101.50	FT		EA	LB	LB	LB		LB	LB	LB	LB								
TOTALS					SF 45.75	SF	EA. 4	SF				FT 22.50			FT 101.50					LB			EA.	LB				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE VTRANS STANDARD SHEETS AND THE "SIGN POST DESIGN GUIDELINE".

*STANDARD HIGHWAY SIGNS AND MARKINGS BOOK

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f116tss.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
TRAFFIC SIGN SUMMARY SHEET 1

PLOT DATE: 10/9/2013
DRAWN BY: A. SWEETMAN
CHECKED BY: E. ATKINS
SHEET 44 OF 53

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 2

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (in) FOUND-ATION	lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN REQUIRED	REMARKS	SIGN DETAIL S.H.S.M.*	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
											OPTION ITEMS																									
MORRISVILLE PARK STREET																																				
STATION 1+36.6 RT PARK STREET	W11-2, PEDESTRIAN SYMBOL	1	30	30	6.25				1																								INSTALL NEW SIGN ON EXISTING POST	X		
	W16-7P, ARROW, PLAQUE	1																															RETAIN EXISTING SIGN ON EXISTING POST (SUB-MOUNT)			
STATION 1+46.2 LT PARK STREET	W11-2, PEDESTRIAN SYMBOL	1	30	30	6.25						1		X					1															INSTALL NEW SIGN ON NEW POST	X		
	W16-7P, ARROW, PLAQUE	1					1																										RELOCATE EXISTING SIGN ON NEW POST (SUB-MOUNT)			
STATION 5+49.8 LT PARK STREET	W11-2, PEDESTRIAN SYMBOL	1	30	30	6.25						1		X					1															INSTALL NEW SIGN ON NEW POST	X		
	W16-9P, AHEAD PLAQUE	1	24	12	2.00																												INSTALL NEW SIGN ON NEW POST (SUB-MOUNT)	X		
RANDOLPH																																				
SITE 1 1+33.5 RT PLEASANT STREET	W11-2, PEDESTRIAN SYMBOL	1	30	30	6.25						1					X		1															INSTALL NEW SIGN ON NEW POST	X		
	W16-7P, ARROW, PLAQUE	1	24	12	2.00																												INSTALL NEW SIGN ON NEW POST (SUB-MOUNT)	X		
SITE 1 1+51.7 LT PLEASANT STREET	W11-2, PEDESTRIAN SYMBOL	1	30	30	6.25						1					X		1															INSTALL NEW SIGN ON NEW POST	X		
	W16-7P, ARROW, PLAQUE	1	24	12	2.00																												INSTALL NEW SIGN ON NEW POST (SUB-MOUNT)	X		
SITE 1 5+38.2 RT PLEASANT STREET	W11-2, PEDESTRIAN SYMBOL	1	30	30	6.25						1					X		1															INSTALL NEW SIGN ON NEW POST	X		
	W16-7P, ARROW, PLAQUE	1	24	12	2.00																												INSTALL NEW SIGN ON NEW POST (SUB-MOUNT)	X		
SITE 1 5+53.8 LT PLEASANT STREET	W11-2, PEDESTRIAN SYMBOL	1	30	30	6.25						1					X		1															INSTALL NEW SIGN ON NEW POST	X		
	W16-7P, ARROW, PLAQUE	1	24	12	2.00																												INSTALL NEW SIGN ON NEW POST (SUB-MOUNT)	X		
												FT	FT 26.50	FT	FT	FT 79.50	FT		EA	LB	LB	LB		LB	LB	LB	LB								
	TOTALS		SF 53.75	SF	EA. 1	SF						FT 26.50			FT 79.50					LB			EA.	LB				EA.	EA.	LB					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE VTRANS STANDARD SHEETS AND THE "SIGN POST DESIGN GUIDELINE".

*STANDARD HIGHWAY SIGNS AND MARKINGS BOOK

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f116tss.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
TRAFFIC SIGN SUMMARY SHEET 2

PLOT DATE: 10/9/2013
DRAWN BY: A. SWEETMAN
CHECKED BY: E. ATKINS
SHEET 45 OF 53

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 3

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75 1.88	2.0 2.42	2.5 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 1.3	4.0 1.7	4.0 MOD 1.7	TUBULAR STEEL Ø (in) FOUND-ATION	lb/ft 3.0 7.6	3.5 9.0	4.0 10.8	5.0 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN REQUIRED	REMARKS	SIGN DETAIL S.H.S.M.*	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
SITE 2 KELLEY WAY	STOP R1-1, NO LEFT TURN						1		1																												
	R3-2, NO LEFT TURN	1	24	24	4.00																												INSTALL NEW SIGN ON EXISTING POST BELOW STOP SIGN (SUB-MOUNT)	X		
SITE 3 1+96.5 RT NORTH MAIN STREET	W11-2, PEDESTRIAN SYMBOL	1					1				1					X		1															RELOCATE EXISTING SIGN ON NEW POST			
	W16-7P, ARROW, PLAQUE	1	24	12	2.00																												INSTALL NEW SIGN ON NEW POST (SUB-MOUNT)	X		
SITE 3 1+96.5 LT NORTH MAIN STREET	W11-2, PEDESTRIAN SYMBOL	1							1																								RETAIN SIGN ON EXISTING POST			
	W16-7P, ARROW, PLAQUE	1	24	12	2.00																												INSTALL NEW SIGN ON EXISTING POST (SUB-MOUNT)	X		
												FT	FT	FT	FT	FT 13.25	FT		EA	LB	LB	LB		LB	LB	LB	LB									
TOTALS					SF 8.00	SF	EA. 2	SF				FT			FT 13.25					LB			EA.	LB				EA.	EA.	LB						
SHEET 44 TOTALS					45.75		4					22.50			101.50																						
SHEET 45 TOTALS					53.75		1					26.50			79.50																						
SHEET 46 TOTALS					8.00		2								13.25																						
GRAND TOTALS					107.50		7					49.00			194.25																						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE VTRANS STANDARD SHEETS AND THE "SIGN POST DESIGN GUIDELINE".

*STANDARD HIGHWAY SIGNS AND MARKINGS BOOK

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f116tss.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
TRAFFIC SIGN SUMMARY SHEET 3

PLOT DATE: 10/9/2013
DRAWN BY: A. SWEETMAN
CHECKED BY: E. ATKINS
SHEET 46 OF 53

GENERAL NOTES:

1. THE CONTRACTOR SHALL SUBMIT A PEDESTRIAN TRAFFIC MANAGEMENT PLAN FOR APPROVAL PRIOR TO THE COMMENCEMENT OF WORK.

2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL BUILDINGS AND BUSINESSES DURING NORMAL BUSINESS HOURS.

3. ALL SIGNS SHALL BE MOUNTED PER THE T-SERIES OF THE VTRANS STANDARD DRAWINGS, MUTCD OR AS DIRECTED BY THE ENGINEER.

4. CONTROLS ARE SHOWN FOR PEDESTRIAN TRAFFIC ONLY. VEHICULAR TRAFFIC SHALL BE MAINTAINED PER VTRANS STANDARDS AND MUTCD, LATEST EDITION.

5. THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE RESPECTIVE MUNICIPALITY WHEN CONSTRUCTION OPERATIONS RESULT IN THE TEMPORARY LOSS OF USE OF PARKING METERS.

PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES:

1. 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.

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

3. 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. ANY TEMPORARY PEDESTRIAN ACCESS ROUTE SHALL MEET THE REQUIREMENTS OF AMERICANS WITH DISABILITIES ACT (ADA). SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCED NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF FOUR FEET. IF THE TPAR IS LESS THAN FIVE FEET IN WIDTH, A FIVE FOOT BY FIVE FOOT PASSING SPACE SHOULD BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTIGUOUS 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 THE PEDESTRIANS INTO CONFLICTS WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.

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

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

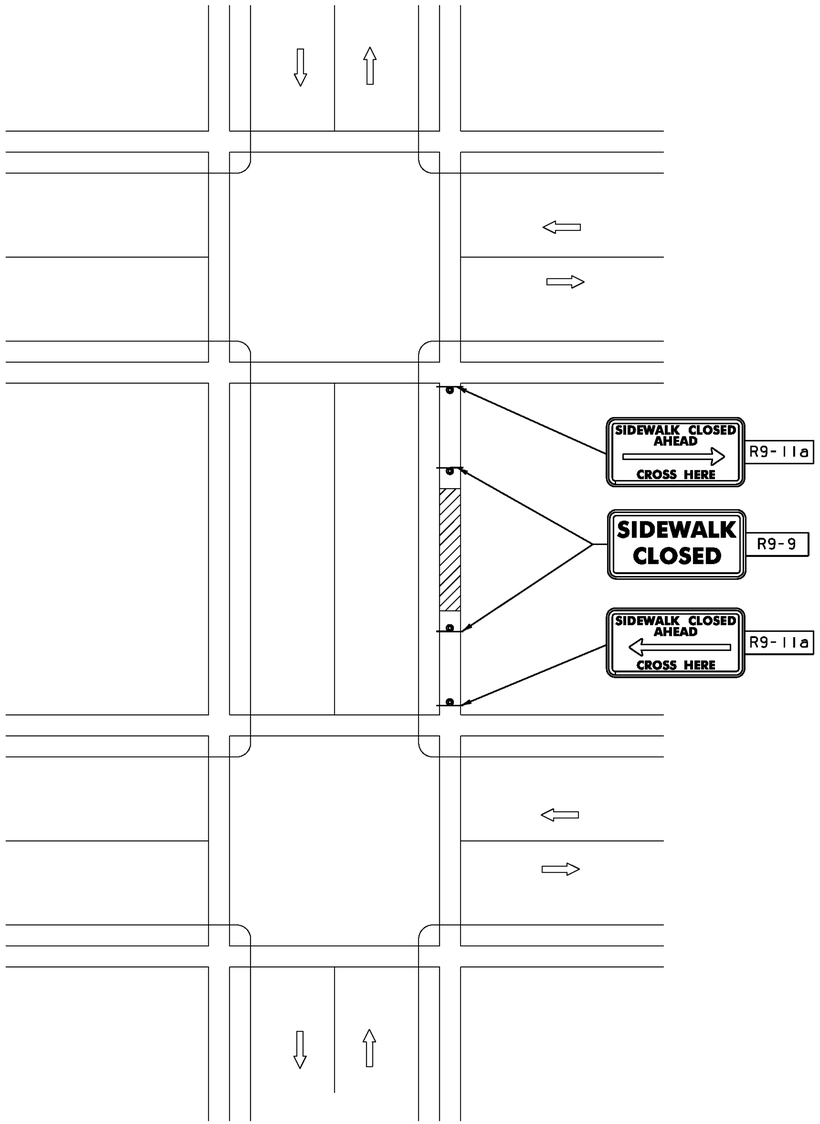
6. THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE PROPER PROTECTION AND A TPAR HAVE BEEN PROVIDED.

7. THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN 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.

8. PROVISION OF THE TPAR AND ALL OF ITS ELEMENTS, INCLUDING BUT NOT LIMITED TO SIGNS, CHANNELIZING DEVICES, BARRICADES, TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES IS INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 641.10.

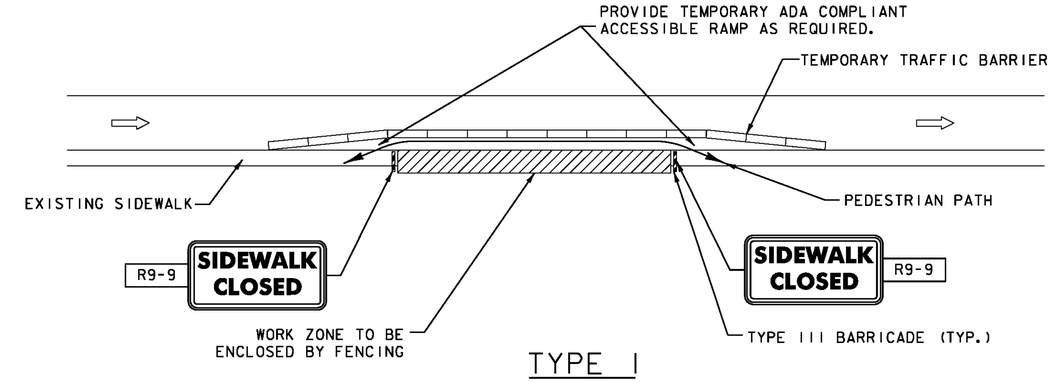
9. TEMPORARY TRAFFIC BARRIER SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 621 AND WILL BE INCLUDED FOR PAYMENT UNDER CONTRACT ITEM 641.10.

NOTE:
1. REFER TO SHEET 47 OF 53 FOR PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES.

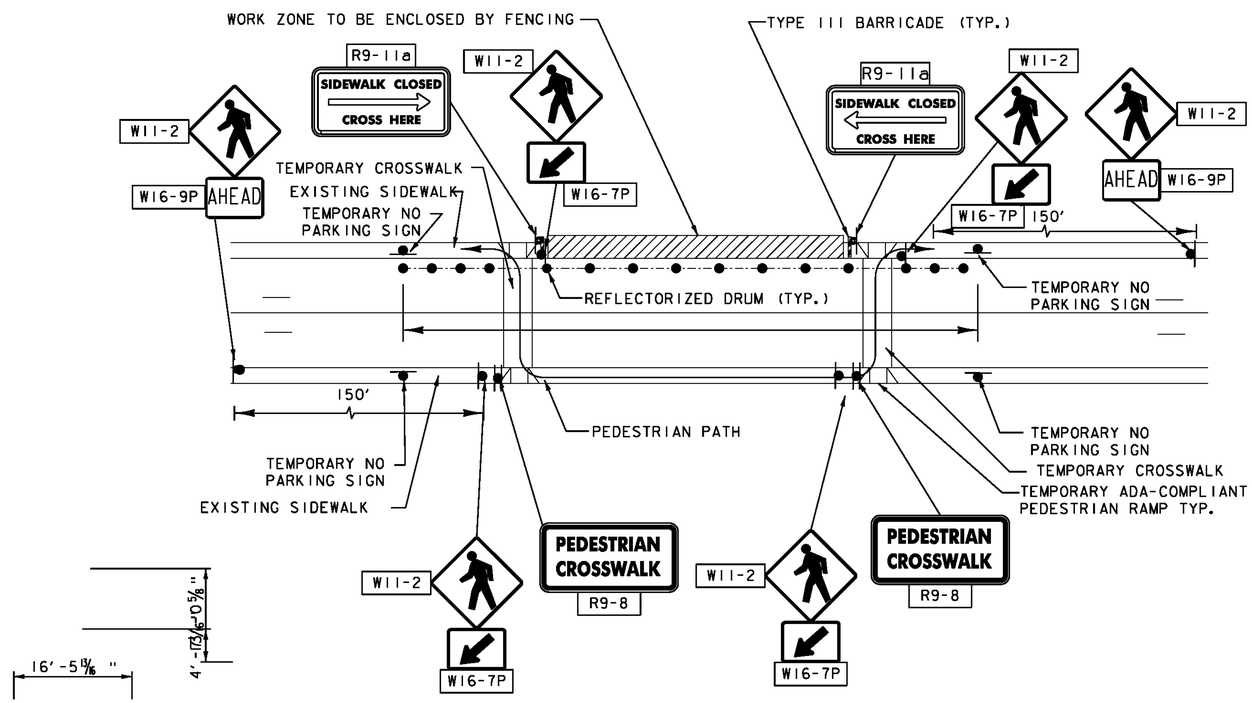


TYPICAL CONSTRUCTION PATTERN AND CONSTRUCTION SIGNING FOR PEDESTRIAN DETOUR AT MARKED CROSSWALKS

NOT TO SCALE



TYPE I



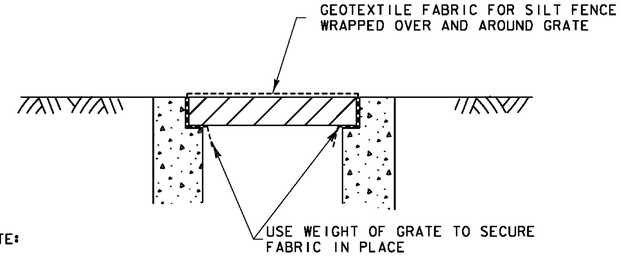
TYPE II

TYPICAL CONSTRUCTION PATTERN AND CONSTRUCTION SIGNING FOR SIDEWALK CLOSURE & BYPASS

NOT TO SCALE

PROJECT NAME: STATEWIDE	
PROJECT NUMBER: STP SDWK(11)	
FILE NAME: z11f116bdr_tmp.dgn	PLOT DATE: 10/9/2013
PROJECT LEADER: E. ATKINS	DRAWN BY: S. MUSTO
DESIGNED BY: T. BIGELOW	CHECKED BY: E. ATKINS
TEMP. MAINTENANCE OF PED. TRAFFIC DETAILS SHEET 48 OF 53	

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS



NOTE:

THE CONTRACTOR SHALL INSPECT ALL INSTALLATIONS DAILY AND REPAIR/REPLACE FABRIC AS REQUIRED OR REMOVE AND DISPOSE OF COLLECTED DEBRIS. NO DEBRIS SHALL BE DISPOSED OF INTO INLETS.

APPLICATION NOTES:

A. THE PRIMARY PURPOSE OF INLET PROTECTION IS TO PREVENT SEDIMENT FROM ENTERING A DRAINAGE STRUCTURE, WHILE STILL ALLOWING THE WATER TO DRAIN. THIS WORKS BY PONDING THE WATER, WHICH WILL ALLOW THE SEDIMENT TO FALL OUT OF SUSPENSION, BEFORE THE WATER ENTERS THE STRUCTURE.

B. THESE EXAMPLES OF INLET PROTECTION ARE NOT INTENDED TO CAUSE STORMWATER TO BYPASS THE STRUCTURE AND CREATE ADDITIONAL EROSION OR FLOODING. IN THE CASE WERE THE INLET PROTECTION STRUCTURE HAS CAUSED WATER TO BYPASS THE DRAINAGE STRUCTURE, ADDITIONAL PROTECTION DEVICES WILL BE REQUIRED. POSSIBLE MODIFICATIONS MAY INCLUDE ADDING CHECK DAMS UPSTREAM OF THE INLET TO CREATE MORE PONDING AND TO SLOW VELOCITIES. A BERM DOWNSTREAM OF THE INLET TO CREATE ADDITIONAL PONDING MAY ALSO BE UTILIZED.

C. DETAILS SHOWN SHALL BE USED FOR TEMPORARY INSTALLATION ONLY.

D. USE OF PREFABRICATED INLET PROTECTION SHALL BE AS APPROVED IN THE EPSCP.

GENERAL NOTES:

1. SILT FENCE GEOTEXTILE SHALL BE A SINGLE CONTINUOUS PIECE TO MINIMIZE UNNECESSARY JOINTS.
2. INLET PROTECTION SHALL BE INSPECTED EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT GREAT ENOUGH TO CAUSE STORMWATER TO LEAVE THE CONSTRUCTION SITE, UNLESS OTHERWISE INDICATED ON THIS SHEET.
3. INLET PROTECTION SHALL BE CLEANED AND REPAIRED AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE HEIGHT OR AS RECOMMENDED BY THE MANUFACTURER. SEDIMENT SHALL BE DISPOSED OF AT AN APPROVED WASTE SITE.
4. PREFABRICATED INLET PROTECTION SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.
5. PAYMENT SHALL BE MADE UNDER CONTRACT ITEM 900.620 SPECIAL PROVISION (INLET PROTECTION, GEOTEXTILE FABRIC)

SPECIAL PROVISION (INLET PROTECTION, GEOTEXTILE FABRIC)

NOT TO SCALE

MAJOR EQUIPMENT LIST (BURLINGTON, SITE 3)

EQUIPMENT ITEM NO. 900.620 (BURLINGTON, SITE 3)	PEARL STREET @ NORTH WINOOSKI AVENUE
PEDESTAL POLE	1
HANDICAP ACCESSIBLE PEDESTRIAN PUSH-BUTTONS AND PLAQUE- POLE MOUNTED	2

EQUIPMENT	ITEM NO.	UNIT	PEARL STREET @ NORTH WINOOSKI AVENUE	NOTES
WIRED CONDUIT (2") (PVC)	678.23	LF	11	-
PULLBOX - STANDARD	678.25	EA	1	-

THE QUANTITIES LISTED ABOVE ARE APPROXIMATE AND ARE FURNISHED FOR INFORMATION ONLY. MISCELLANEOUS (UNLISTED) WIRE, CABLE, HARDWARE ETC., ARE REQUIRED TO PROVIDE FOR A FUNCTIONING TRAFFIC SIGNAL SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE NUMBER OF ITEMS AND THE TYPES OF EQUIPMENT REQUIRED. REFER TO SHEET 17 FOR ADDITIONAL INFORMATION.

PEARL STREET @ NORTH WINOOSKI AVENUE

WIRED CONDUIT
(2") (PVC)

PEDESTAL POLE TO PEDISTAL POLE - 11'

MAJOR EQUIPMENT LIST (BURLINGTON, SITE 6)

EQUIPMENT ITEM NO. 900.620 (BURLINGTON, SITE 6)	PEARL STREET @ NORTH CHAMPLAIN AVENUE
PEDISTAL POLE	2
PEDESTRIAN SIGNAL HEADS, COUNTDOWN	2
HANDICAP ACCESSIBLE PEDESTRIAN PUSH-BUTTONS AND PLAQUE- POLE MOUNTED	2

EQUIPMENT	ITEM NO.	UNIT	PEARL STREET @ NORTH CHAMPLAIN AVENUE	NOTES
WIRED CONDUIT (2") (PVC)	678.23	LF	17	-

PEARL STREET @ NORTH CHAMPLAIN AVENUE

WIRED CONDUIT
(2") (PVC)

PEDESTAL POLE TO MAST ARM - 8'
PEDESTAL POLE TO PULL BOX - 9

THE QUANTITIES LISTED ABOVE ARE APPROXIMATE AND ARE FURNISHED FOR INFORMATION ONLY. MISCELLANEOUS (UNLISTED) WIRE, CABLE, HARDWARE ETC., ARE REQUIRED TO PROVIDE FOR A FUNCTIONING TRAFFIC SIGNAL SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE NUMBER OF ITEMS AND THE TYPES OF EQUIPMENT REQUIRED. REFER TO SHEET 18 FOR ADDITIONAL INFORMATION.

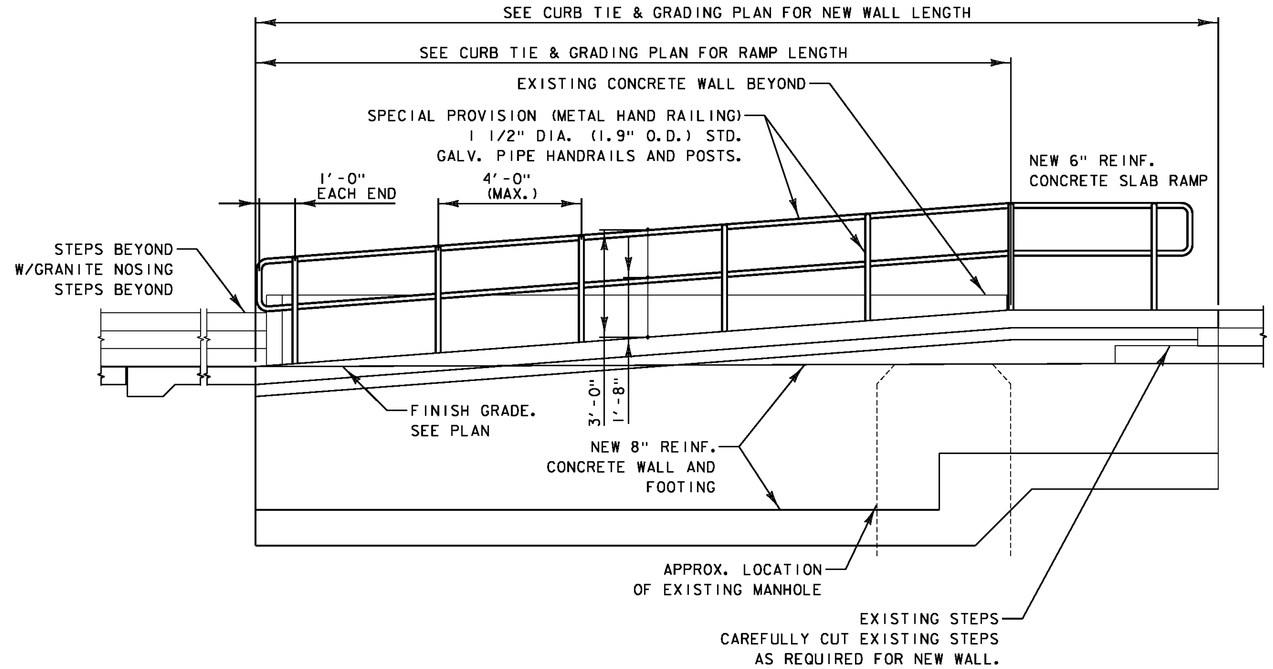
GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

PROJECT NAME: STATEWIDE
PROJECT NUMBER: STP SDWK(11)

FILE NAME: z11f116det.dgn
PROJECT LEADER: E. ATKINS
DESIGNED BY: T. BIGELOW
MISCELLANEOUS DETAILS

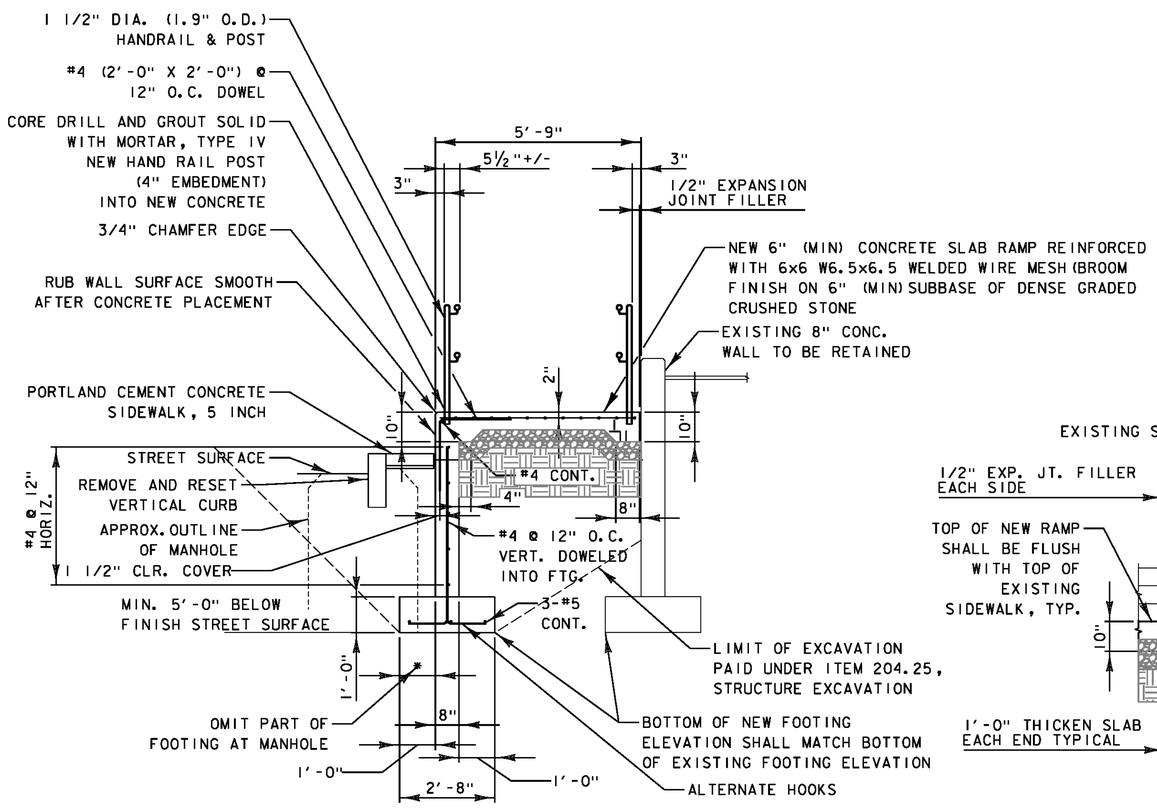
PLOT DATE: 10/9/2013
DRAWN BY: S. MUSTO
CHECKED BY: E. ATKINS
SHEET 49 OF 53

NOTE:
PAYMENT FOR THE EXCAVATION REQUIRED FOR THE FOOTING SHALL BE PAID UNDER ITEM 204.25, STRUCTURE EXCAVATION. PAYMENT FOR DENSE GRADED CRUSHED STONE SHALL BE PAID UNDER ITEM 301.35, SUBBASE OF DENSE GRADED CRUSHED STONE. PAYMENT FOR THE CONCRETE SLAB AND CONCRETE FOOTING SHALL BE PAID UNDER ITEM 501.34, CONCRETE, HIGH PERFORMANCE CLASS B. PAYMENT FOR ALL REINFORCING STEEL SHALL BE PAID UNDER ITEM 507.11, REINFORCING STEEL, LEVEL 1. PAYMENT FOR THE REMOVING AND RESETTING OF THE GRANITE CURB SHALL BE PAID UNDER ITEM 616.40, REMOVING AND RESETTING CURB. PAYMENT FOR THE HANDRAILS SHALL BE PAID UNDER ITEM 900.640, SPECIAL PROVISION (METAL HAND RAILING). PAYMENT FOR THE REMOVAL OF EXISTING RAMP AND SUPPORT OF THE EXISTING WALL TO REMAIN SHALL BE PAID FOR UNDER ITEM 900.645, SPECIAL PROVISION (REMOVAL OF EXISTING STRUCTURAL RAMP). PAYMENT FOR THE STAMPED CONCRETE SHALL BE PAID UNDER ITEM 900.675, SPECIAL PROVISION (STAMPED CONCRETE). PAYMENT FOR ALL OTHER ITEMS INCLUDING BUT NOT LIMITED TO JOINT FILLER AND MORTAR, TYPE IV SHALL BE CONSIDERED INCIDENTAL TO THE OTHER ITEMS REQUIRED TO CONSTRUCT THE RAMP.



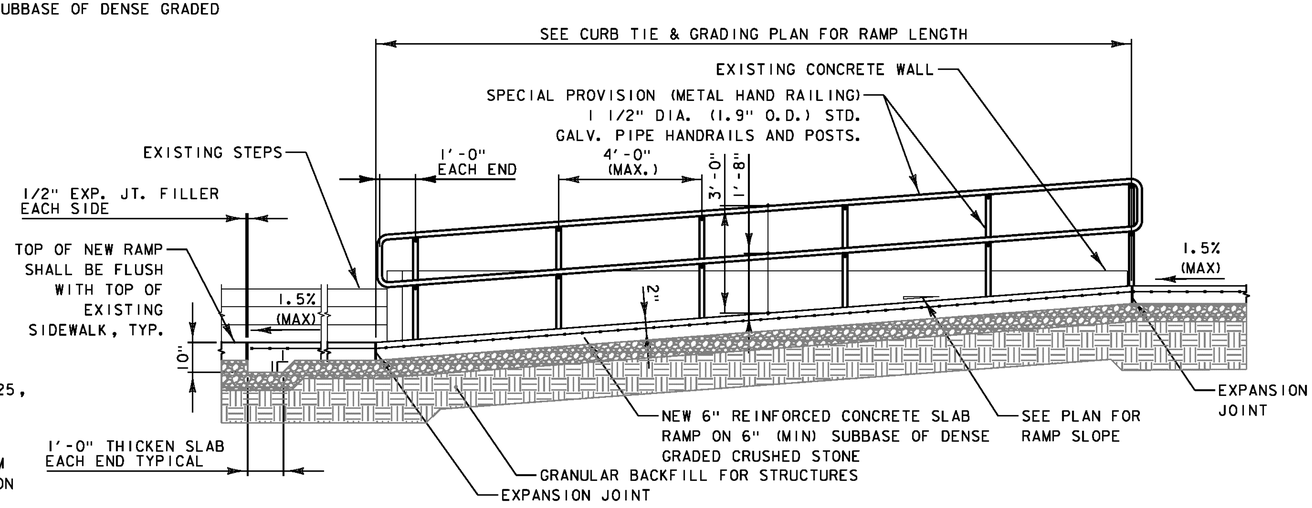
ELEVATION OF NEW RANDOLPH STRUCTURAL RAMP AND WALL

SCALE 1/2" = 1'-0"



TRANSVERSE SECTION THRU. NEW RANDOLPH STRUCTURAL RAMP

SCALE 1/2" = 1'-0"

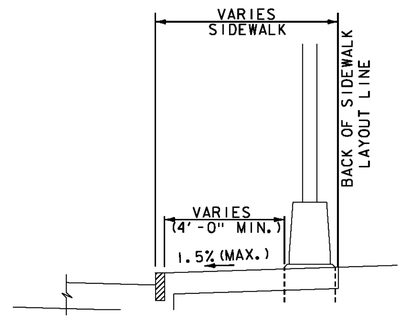


LONGITUDINAL SECTION THRU. NEW RANDOLPH STRUCTURAL RAMP

SCALE 1/2" = 1'-0"

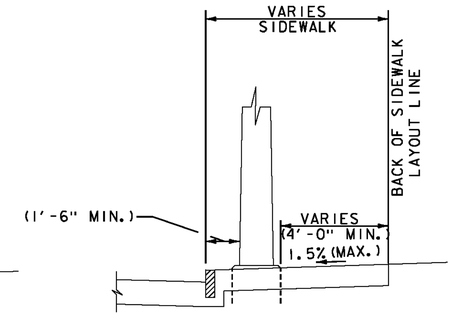
GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

PROJECT NAME: STATEWIDE	
PROJECT NUMBER: STP SDWK(11)	
FILE NAME: z11-f116det.dgn	PLOT DATE: 10/9/2013
PROJECT LEADER: E. ATKINS	DRAWN BY: C. NORET
DESIGNED BY: G. BOTAZZI	CHECKED BY: G. BOTAZZI
RANDOLPH RAMP SECTION AND ELEVATIONS	SHEET 50 OF 53



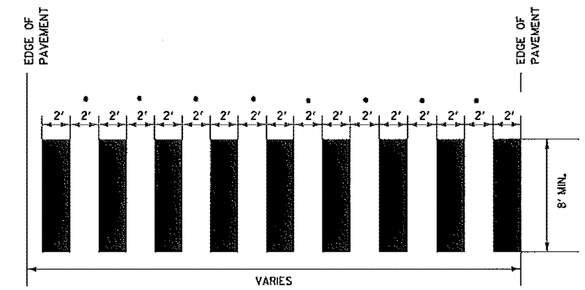
MAST ARM FOUNDATION

NOT TO SCALE



STREET LIGHT POLE

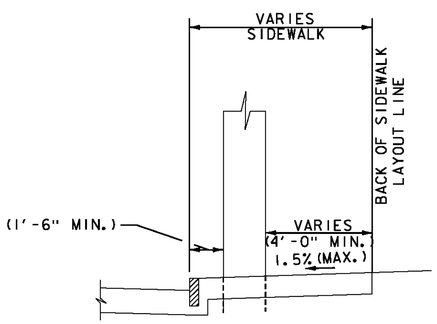
NOT TO SCALE

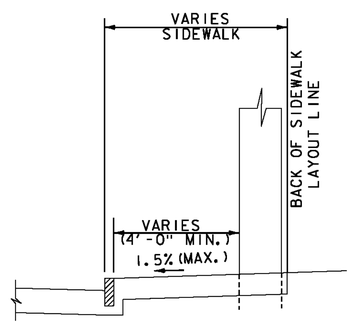


BLOCK PATTERN CROSSWALK DETAIL

SEE LAYOUT SHEETS FOR LOCATIONS.
ALL BLOCK PATTERN CROSS WALKS SHALL BE
INSTALLED PARALLEL WITH WHEEL PATHS.

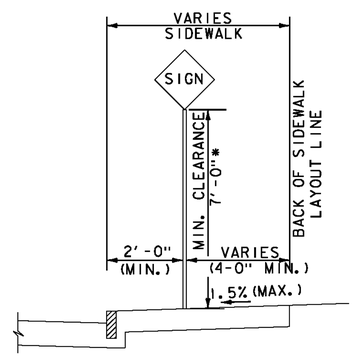
* ADJUST SPACING (12"-24") TO AVOID WHEEL PATHS

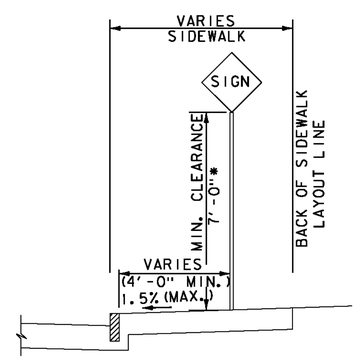




UTILITY POLE

NOT TO SCALE

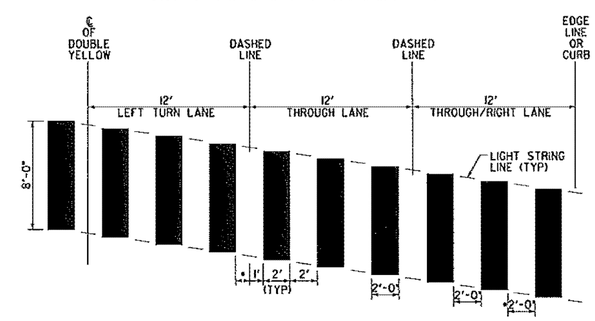




*NOTE: PER E-121, MINIMUM CLEARANCE CAN BE REDUCED BY 1'-0"
IF A SUPPLIMENTAL PLAQUE IS MOUNTED BELOW THE PRIMARY SIGN.

TRAFFIC SIGN

NOT TO SCALE



SKEWED CROSSWALK PATTERN DETAIL

SEE LAYOUT SHEETS FOR LOCATIONS.
ALL BLOCK PATTERN CROSS WALKS SHALL BE
INSTALLED PARALLEL WITH WHEEL PATHS.

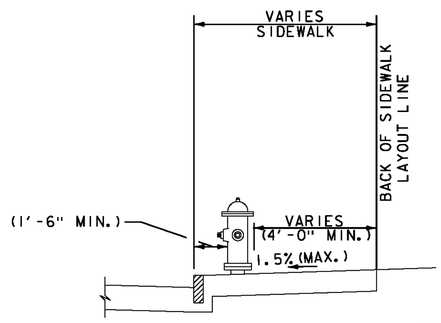
* ADJUST SPACING (12"-24") TO AVOID WHEEL PATHS

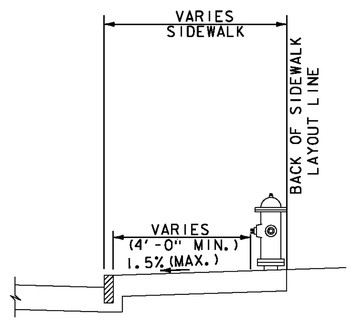
1. THIS DETAIL IS SETUP FOR A 12 FOOT LANE.
2. MARK LIGHT STRING LINE ON PAVEMENT ACROSS ROADWAY (CURB TO CURB).
3. ESTABLISH THE CENTER LINE OF THE ROADWAY (DOUBLE YELLOW OR LANE LINE).
4. BLOCKS ARE PARALLEL TO THE CENTERLINE (DOUBLE YELLOW OR LANE LINE) (OFFSET BLOCKS VERTICALLY TO ACHIEVE REQUIRED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

(*) 7. THIS DISTANCE WILL DECREASE TO 0.5' FOR AN 11 FOOT LANE

CROSSWALK DETAILS

NOT TO SCALE



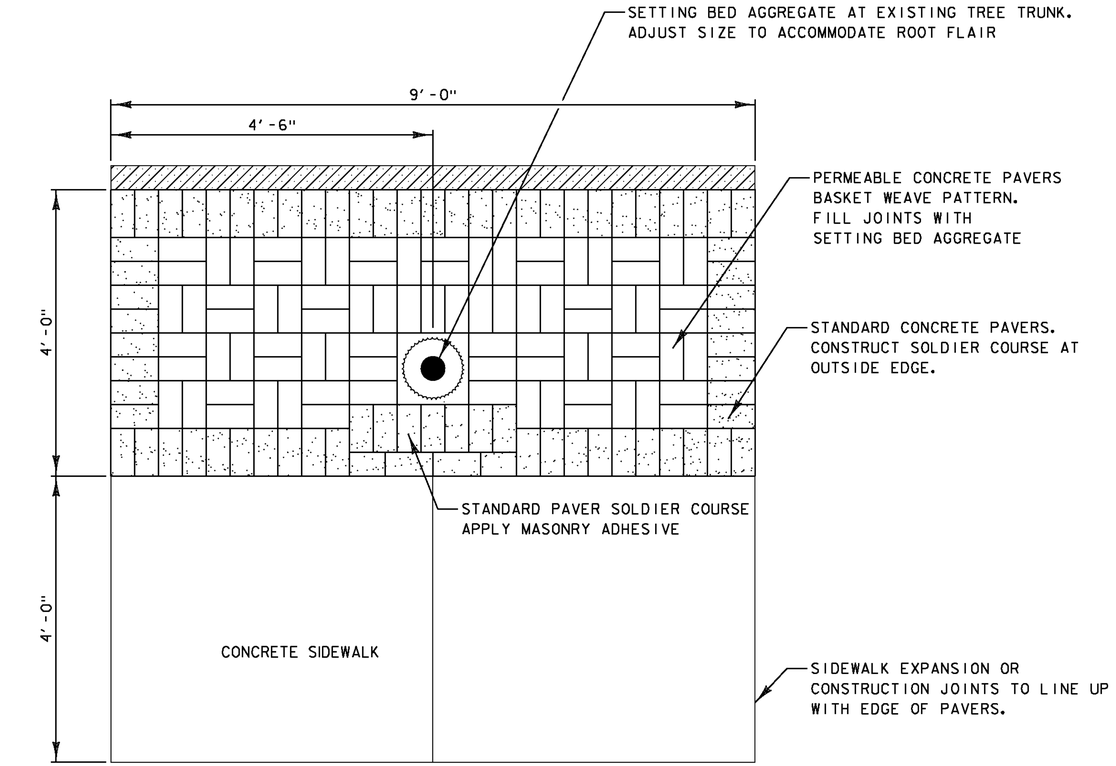


HYDRANT

NOT TO SCALE

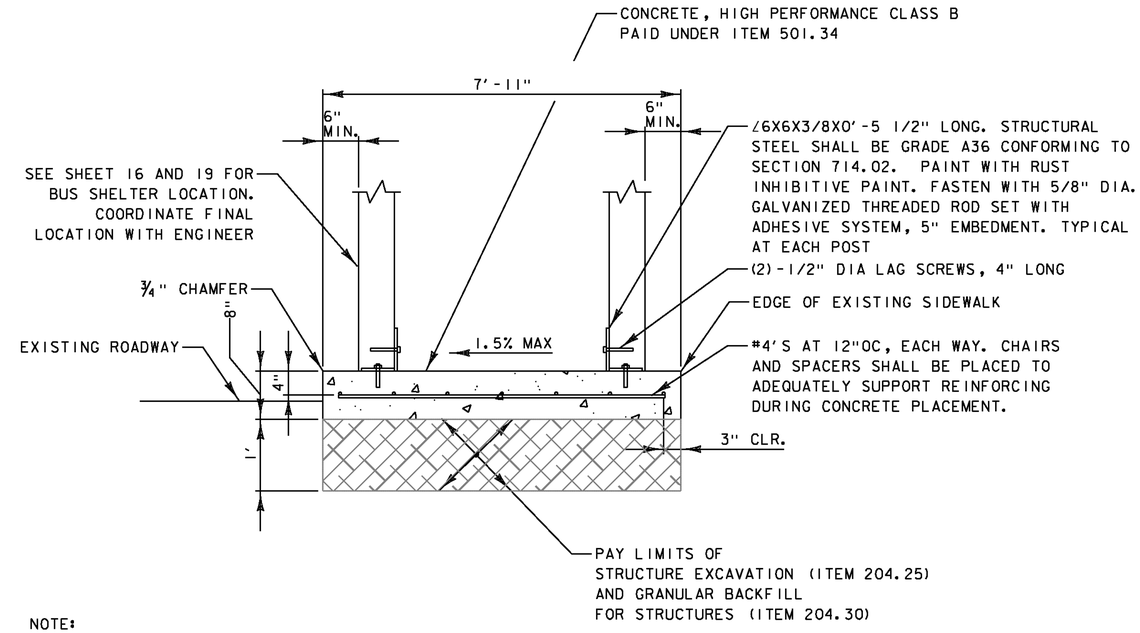
GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

PROJECT NAME: STATEWIDE	
PROJECT NUMBER: STP SDWK(11)	
FILE NAME: z11f116det.dgn	PLOT DATE: 10/9/2013
PROJECT LEADER: E. ATKINS	DRAWN BY: S. MUSTO
DESIGNED BY: T. BIGELOW	CHECKED BY: E. ATKINS
SIDEWALK CLEARANCE & CROSSWALK DETAILS	SHEET 51 OF 53



PLAN AT EXISTING TREE SIDEWALK OPENINGS

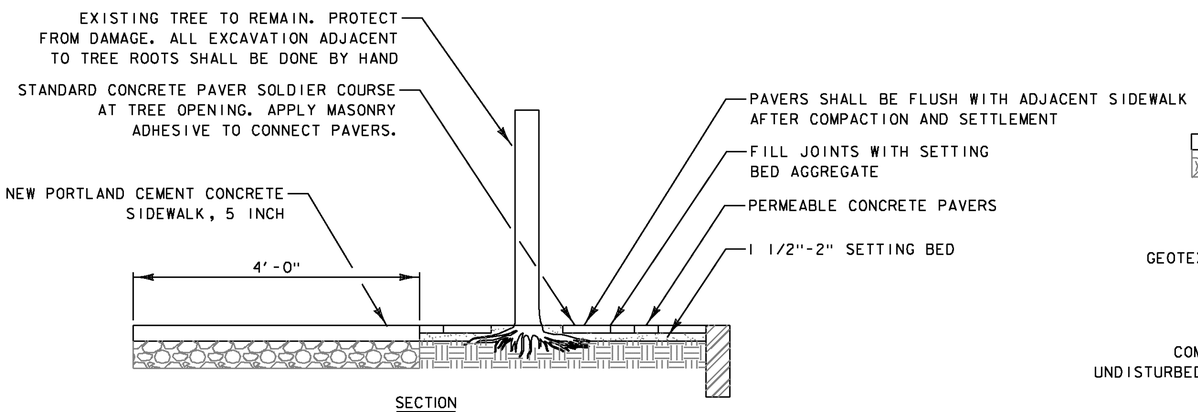
SCALE 1" = 1-0"



NOTE:
PAYMENT FOR ITEM 900.645 SPECIAL PROVISION (REMOVE AND RESET BUS SHELTER) SHALL INCLUDE MOVING, BRACING, AND STACKING THE EXISTING BUS SHELTER AND RESETTING THE SHELTER PER THIS DETAIL. THE CONCRETE PAD SHALL BE PAID UNDER ITEM 501.34. CONCRETE, HIGH PERFORMANCE CLASS B. STEEL REINFORCING SHALL BE PAID UNDER ITEM 507.11 REINFORCING STEEL, LEVEL 1. EXCAVATION BELOW THE EXISTING CONCRETE SLAB SHALL BE PAID UNDER ITEM 204.25, STRUCTURE EXCAVATION. FOUNDATION BACKFILL SHALL BE PAID UNDER ITEM 204.30 GRANULAR BACKFILL FOR STRUCTURES.

SPECIAL PROVISION (REMOVE AND RESET BUS SHELTER)

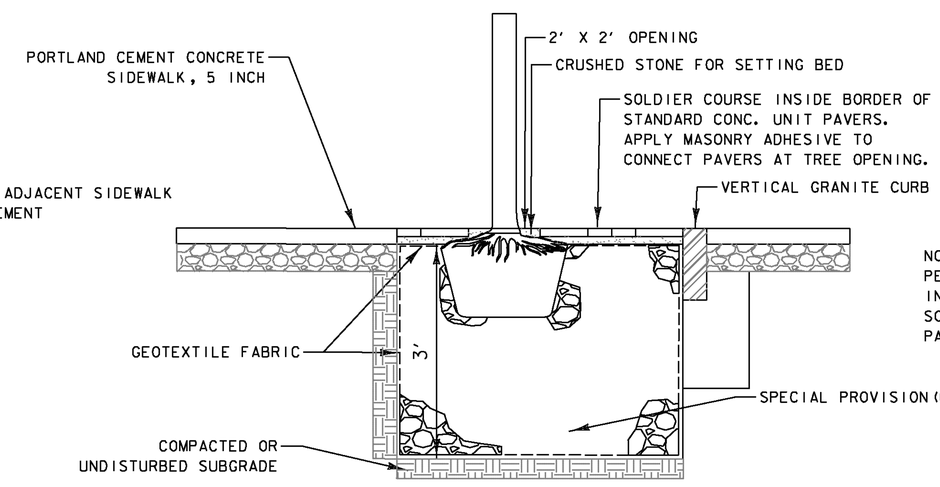
SCALE 1" = 1-0"



SECTION

SPECIAL PROVISION
(PERMEABLE PAVER TREE WELL) AT EXISTING TREE

SCALE 1" = 1-0"



NOTE:
PERMEABLE PAVERS SHALL BE INSTALLED OVER CU STRUCTURAL SOIL EXCEPT AT STANDARD PAVER SOLDIER COURSE BORDER.

SPECIAL PROVISION
(PERMEABLE PAVER TREE WELL)
AT NEW TREE

SCALE 1" = 1-0"

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

PROJECT NAME: STATEWIDE	
PROJECT NUMBER: STP SDWK(11)	
FILE NAME: z11f116det.dgn	PLOT DATE: 10/9/2013
PROJECT LEADER: E. ATKINS	DRAWN BY: C. MORIN
DESIGNED BY: T. BIGELOW	CHECKED BY: E. ATKINS
TREE WELL AND BUS SHELTER DETAIL	SHEET 52 OF 53

NOTES:

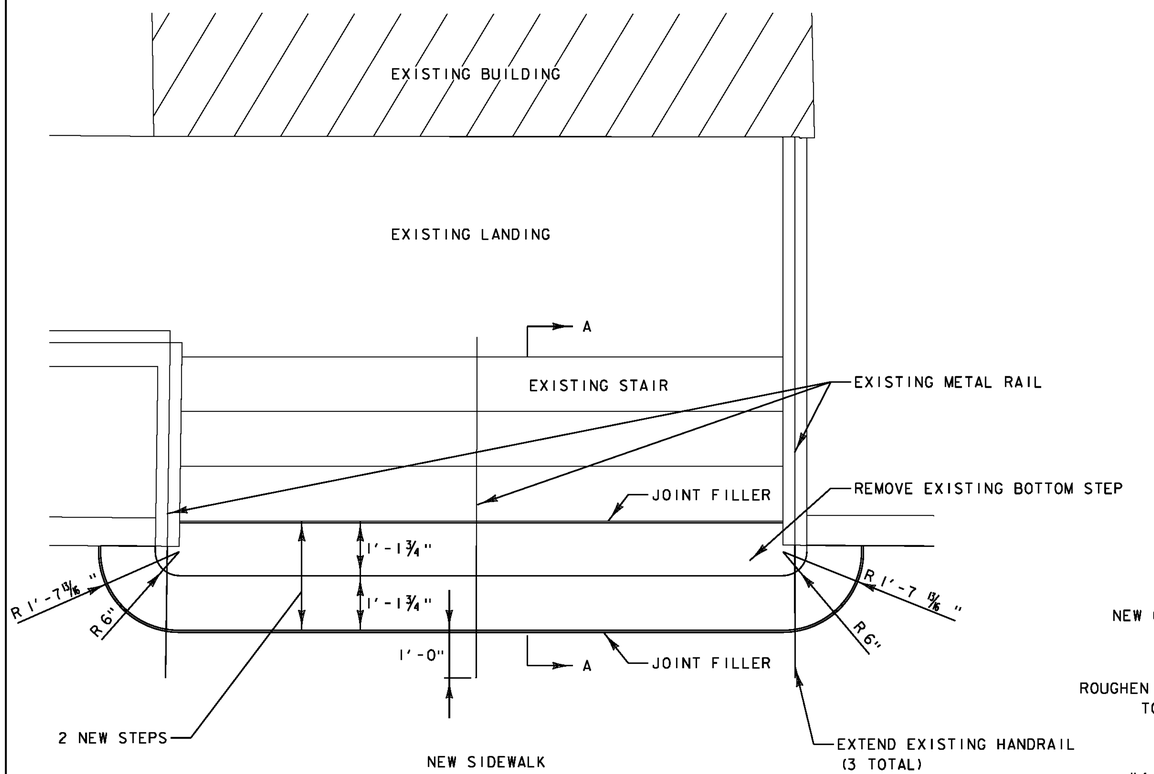
1. CONTRACTOR SHALL FIELD MEASURE EXISTING STAIR AND RAILINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER. NEW RAILING EXTENSION SHALL MATCH THE MATERIALS, FINISH, DIMENSIONS, SHAPE AND SLOPES OF EXISTING RAIL. NEW CONCRETE STEPS SHALL BE AS SHOWN AND SHALL MATCH THE DIMENSIONS OF THE ADJACENT EXISTING STEP.

2. PAYMENT FOR ITEM 900.645 SPECIAL PROVISION (CONCRETE STEPS WITH EXTENDED HANDRAILS) SHALL INCLUDE CONCRETE, HIGH PERFORMANCE CLASS B, STEEL REINFORCING, JOINT FILLER, EPOXY ADHESIVE, HANDRAIL EXTENSION AND ALL OTHER WORK AS SHOWN IN THE DETAILS. 6" SUBBASE OF DENSE GRADED CRUSHED STONE SHALL BE PAID UNDER ITEM 301.35. COST TO CONSTRUCT SIDEWALK DOWNTURN AT STEPS SHALL BE INCIDENTAL TO THE COST OF ITEM 618.10 PORTLAND CEMENT SIDEWALK, 5 INCH.

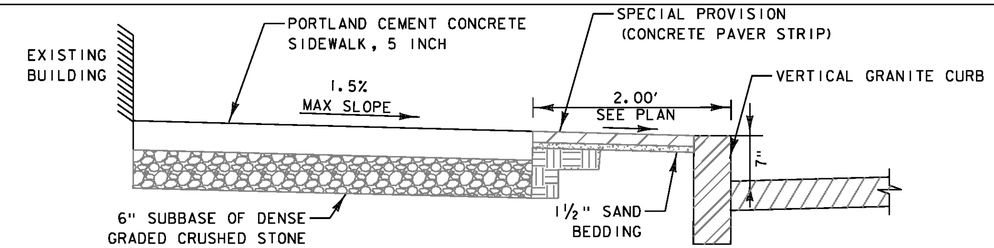
3. GRIND SMOOTH AND FINISH WITH TWO COATS OF ZINC RICH PRIMER AND TWO COATS OF EPOXY PAINT. NEW TOP RAIL, CURVED END RETURN, PICKETS AND BOTTOM RAIL SHALL MATCH EXISTING RAIL.

4. CLEAN AND PAINT NEW RAIL TO MATCH EXISTING. REMOVE ALL RUST.

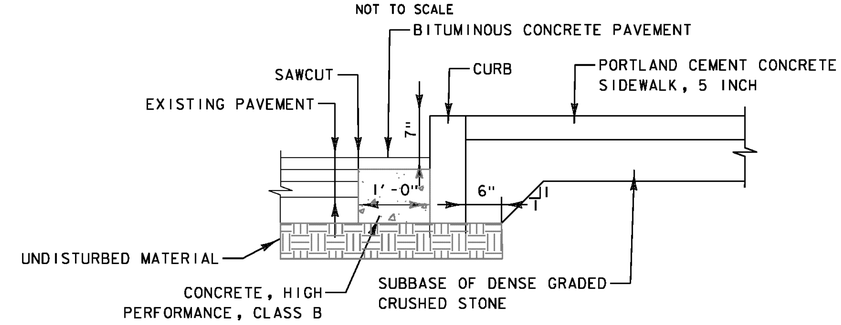
5. TEMPORARILY SUPPORT AND PROTECT EXISTING END POST AND RAILING FROM DAMAGE. USE WOOD BRACING AND PROTECTIVE WRAP OR AS DIRECTED BY THE ENGINEER.



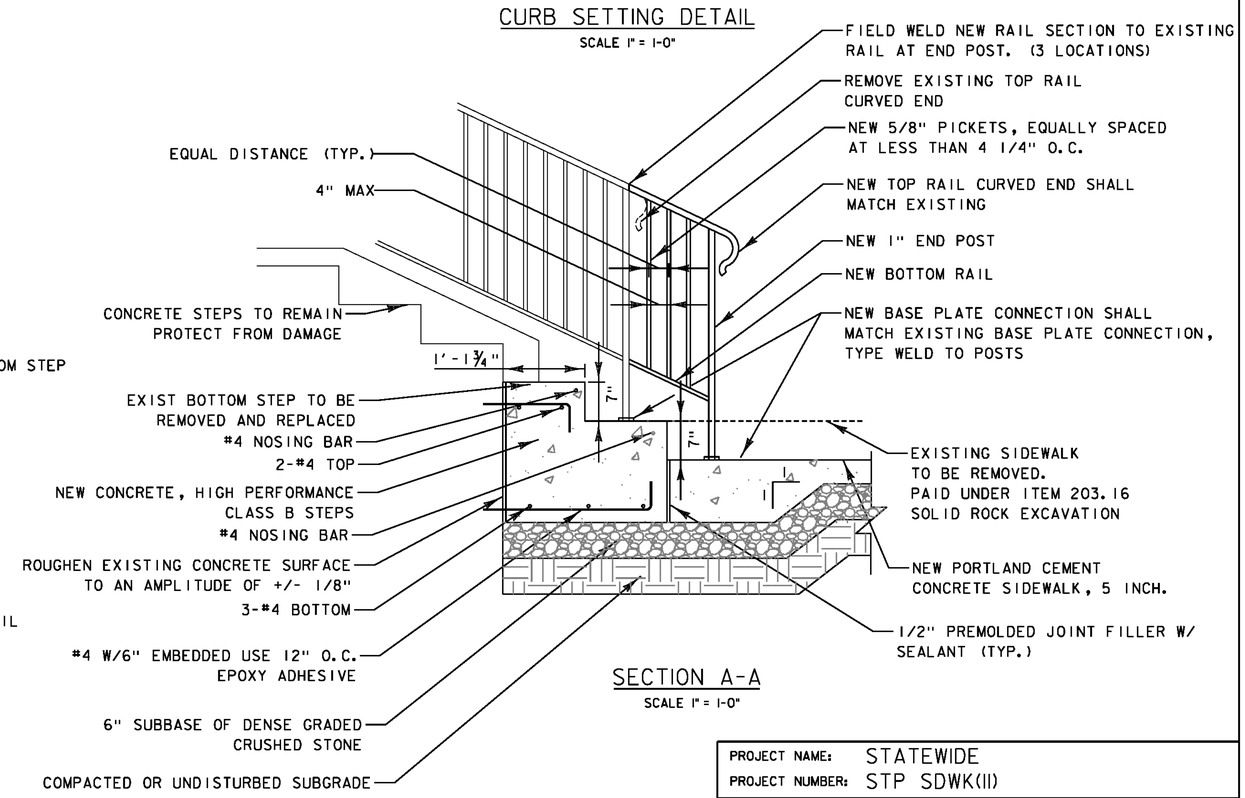
SPECIAL PROVISION
(CONCRETE STEPS WITH EXTENDED HANDRAILS) - BRISTOL, SITE 2
SCALE 3/4" = 1-0"



SPECIAL PROVISION (CONCRETE PAVER STRIP) DETAIL - BRADFORD
NOT TO SCALE



CURB SETTING DETAIL
SCALE 1" = 1-0"



SECTION A-A
SCALE 1" = 1-0"

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

PROJECT NAME: STATEWIDE	
PROJECT NUMBER: STP SDWK(11)	
FILE NAME: z11f116det.dgn	PLOT DATE: 10/9/2013
PROJECT LEADER: E. ATKINS	DRAWN BY: C. MORIN
DESIGNED BY: T. BIGELOW	CHECKED BY: E. ATKINS
CONC. STEP WITH EXTENDED HANDRAIL DETL	SHEET 53 OF 53