

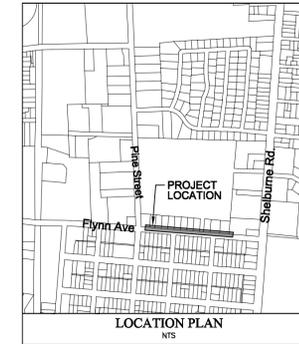
City of Burlington County of Chittenden Flynn Avenue Sidewalk Project Burlington STP SDWK (3)

PROJECT LOCATION: ALONG THE NORTH SIDE OF FLYNN AVENUE, BEGINNING APPROXIMATELY 160 FEET EAST OF PINE STREET AND PROCEEDING EASTERLY FOR 891 FEET TO A POINT APPROXIMATELY 375 FEET WESTERLY OF SHELburne ROAD.

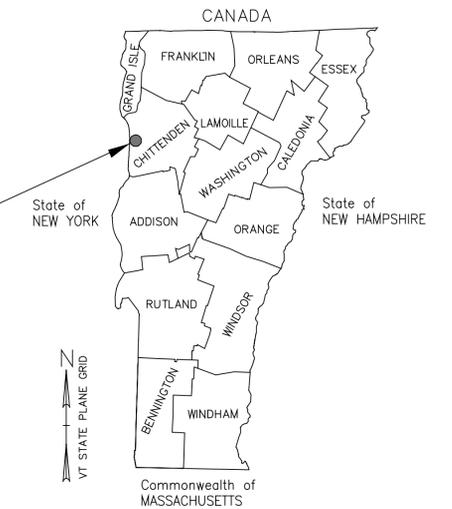
PROJECT DESCRIPTION: WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES GRADING, SUBBASE, AND NEW 5' WIDE SIDEWALK, DRIVEWAY RECONSTRUCTION, AND RELATED ITEMS.

LENGTH OF PROJECT: 891 LF. (0.17 MILES)

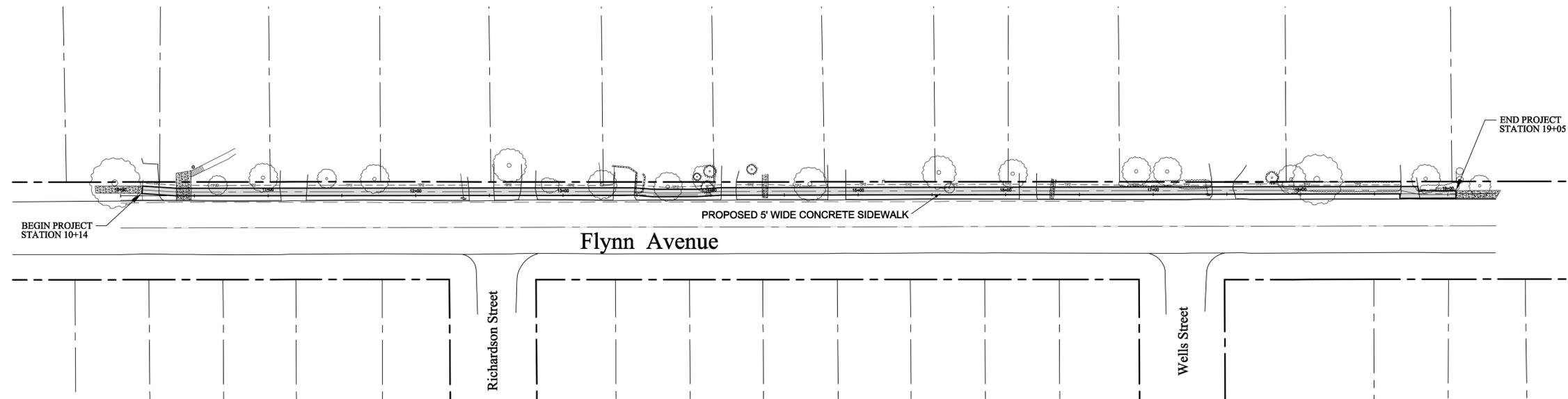
BURLINGTON



PROJECT LOCATION



VT STATE PLANE GRID



OVERALL SITE PLAN

INDEX OF SHEETS

SHEET #	TITLE
1	TITLE SHEET
2	DETAILS & SPECIFICATIONS
3	QUANTITY SHEET
4-5	PLAN AND PROFILE SHEETS
6-10	CROSS SECTIONS
11	EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLAN
12	CONSTRUCTION APPROACH SIGNING

VTRANS STANDARD SHEETS

SHEET #	TITLE	DATE
B-71	RESIDENTIAL AND COMMERCIAL DRIVES	7-08-05 R
C-2B	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES	10-14-05 R
E-121	STANDARD SIGN PLACEMENT, CONVENTIONAL ROAD	8-08-95 R
E-152	WARNING SIGN DETAILS	5-01-04
T-1	TRAFFIC CONTROL GENERAL NOTES	8-06-12
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	8-06-12
T-30	CONSTRUCTION SIGN DETAILS	8-06-12
T-35	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS	8-06-12
T-45	SQUARE TUBE SIGN POST AND ANCHOR	1-02-13

NOTES:

- THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE VERMONT AGENCY OF TRANSPORTATION. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE VTRANS 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 INCORPORATED IN THESE PLANS.
- THE FLYNN AVENUE SIDELINES ARE BASED ON LIMITED FOUND EXISTING BOUNDARY EVIDENCE AND PLANS BY VTRANS. THE INDIVIDUAL PROPERTY LINES WERE LOCATED BASED ON FOUND EVIDENCE, THE ABOVE VTRANS PLANS, PROPERTY SURVEYS AND TOWN PARCEL MAPS.
- LINES SHOWN ON THESE PLANS AS EXISTING PROPERTY LINES ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO BURLINGTON'S ACQUISITION OF LANDS AND RIGHTS FOR THE PROJECT.

FUNDING ASSISTANCE FOR THIS PROJECT
IS BEING FURNISHED BY FHWA, AND THE
CITY OF BURLINGTON

QUALITY ASSURANCE PROGRAM:
INSPECTION LEVEL 3

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83(1996)

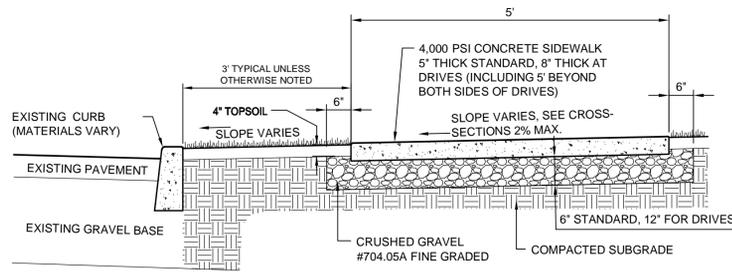
CITY OF BURLINGTON
APPROVED _____ DATE _____
DIRECTOR OF PUBLIC WORKS

85% FINAL PLANS
OCTOBER, 2014

LD Lamoureux & Dickinson
Consulting Engineers, Inc.
14 Morse Drive, Essex, VT 05452
802-878-4450 www.LDEngineering.com

GENERAL CONSTRUCTION SPECIFICATIONS

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION 2011 AND ITS LATEST REVISIONS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2009 EDITION) AND THESE PLANS.
2. THE CONTRACTOR SHALL CONTACT ALL UTILITIES BEFORE EXCAVATION TO VERIFY THE LOCATION OF ANY UNDERGROUND LINES. THE CONTRACTOR SHALL NOTIFY "DIG SAFE AT 811 AND THE CITY OF BURLINGTON PUBLIC WORKS DEPARTMENT PRIOR TO ANY EXCAVATION.
3. UTILITIES INFORMATION SHOWN HEREON WERE OBTAINED FROM BEST AVAILABLE SOURCES AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. EXPLORATORY EXCAVATION SHALL BE PERFORMED IN THE LOCATIONS SHOWN ON THE PLANS. ADDITIONAL EXPLORATORY EXCAVATION SHALL BE COORDINATED WITH AND SUBJECT TO THE RESIDENT ENGINEERS APPROVAL. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE, SHOWN OR NOT SHOWN HEREON. THE CONTRACTOR SHALL CONNECT OR RECONNECT ALL UTILITIES TO THE NEAREST SOURCE THROUGH COORDINATION WITH UTILITY OWNER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE DUST CREATED AS A RESULT OF CONSTRUCTION DOES NOT CREATE A NUISANCE OR A SAFETY HAZARD. THE CONTRACTOR SHALL WET SECTIONS OF THE CONSTRUCTION AREA WITH WATER AND/OR SWEEP ASPHALT ROADS WITH A POWER BROOM (TYPE 1) OR A STREET SWEEPER (POWER BROOM TYPE II) AS DUST CONTROL ON A DAILY BASIS, OR AT MORE FREQUENT INTERVALS AS DIRECTED BY THE ENGINEER AND/OR OWNER.

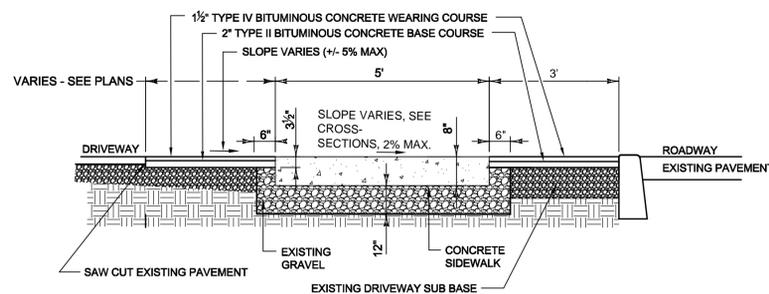


TYPICAL SIDEWALK WITH GRASS STRIP CROSS-SECTION

NTS

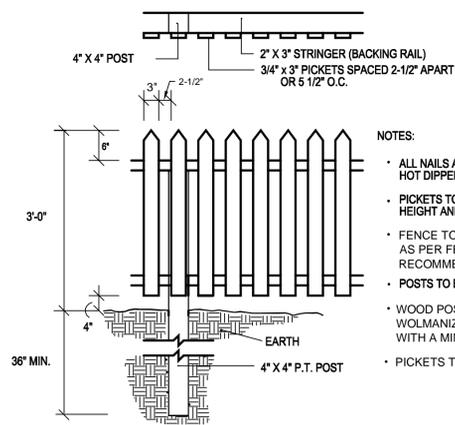
NOTES:

1. EMULSION SHALL BE PLACED ON THE BACK OF THE CURB WHERE IT WILL BE IN CONTACT WITH NEW DRIVEWAY PAVEMENT.
2. EMULSIFIED ASPHALT TO BE APPLIED AT THE RATE OF 0.025 GAL/SQ YD.
3. BITUMINOUS CONCRETE PAVEMENT SHALL BE 75 BLOW MARSHALL MIX AND PERFORMANCE GRADED BINDER SHALL BE PG 58-34.
4. THE CONTRACTOR SHALL APPLY A CONCRETE SEALING COMPOUND TO ALL EXPOSED CONCRETE CURB AND SIDEWALK SURFACES, ITEM #514.10 WATER REPELLANT, SILANE.



TYPICAL 8" THICK CONCRETE SIDEWALK ACROSS DRIVEWAYS

NTS



- NOTES:**
- ALL NAILS AND HARDWARE TO BE HOT DIPPED GALVANIZED
 - PICKETS TO BE HUNG WITH UNIFORM HEIGHT AND SPACING.
 - FENCE TO BE PAINTED OR STAINED WHITE AS PER FENCE MANUFACTURER'S RECOMMENDATIONS
 - POSTS TO BE SPACED 8' O.C.
 - WOOD POSTS AND STRINGERS TO BE WOLMANIZED PINE GRADE C OR BETTER WITH A MINIMUM .40 P.C.F TREATMENT
 - PICKETS TO BE WHITE OR RED CEDAR

WOOD PICKET FENCE DETAIL

NTS

AOT RURAL AREA MI							
EI	HT	L S AC	ROADCAST	HYDROSEED	NAME	ERM	PURITY
					CREEPIN RED FESCUE		
					TALL FESCUE		
					RED TOP		
1			1		IRDSFOOT TREFOIL		
					ANNUAL RYE RASS		
1				1			

AOT UR AN AREA MI							
EI	HT	L S AC	ROADCAST	HYDROSEED	NAME	ERM	PURITY
					CREEPIN RED FESCUE		
					PERENNIAL RYE RASS		
					ENTUC Y LUE RASS		
					ANNUAL RYE RASS		
1				1			

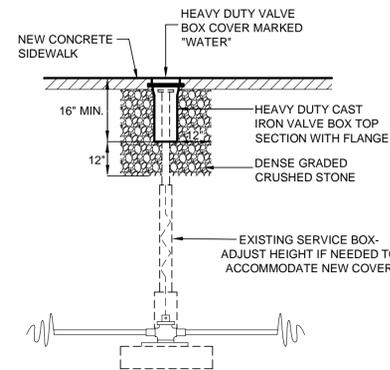
GENERAL GUIDANCE			
FERTILIZER	LIME	ROADCAST	HYDROSEED
1	1	1	1
L S AC		PELLET ED LIQUID	
		TONS AC	AL AC

CONSTRUCTION GUIDANCE

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

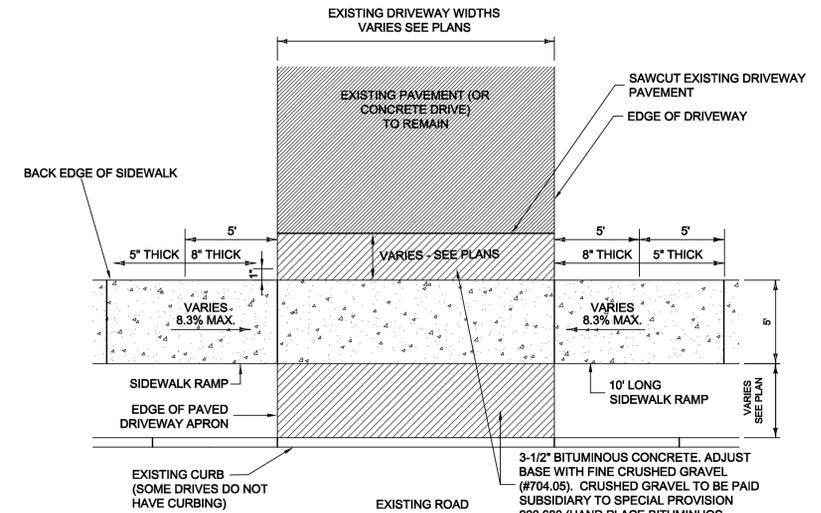
SEED

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.15)



EXISTING CURBSTOP LOCATED IN NEW SIDEWALK

NTS THIS DETAIL COVERS THE WORK OUTLINED IN SPECIAL PROVISION 900.620 (EXTENSION SERVICE BOX)

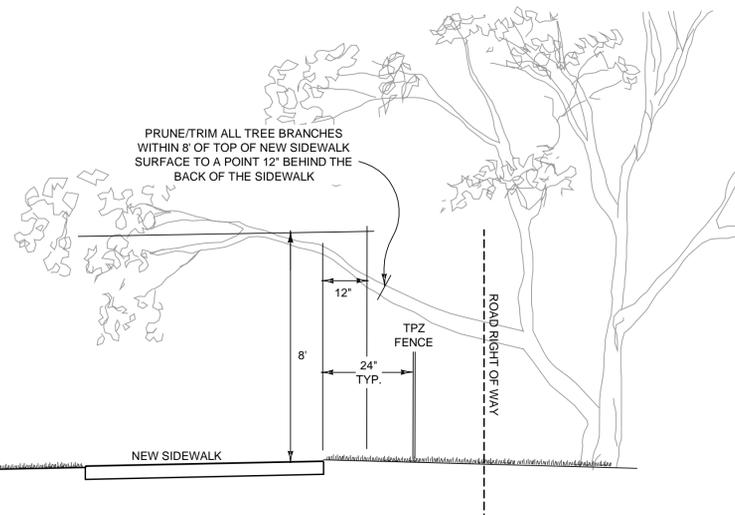


NOTES:

1. SUBBASE MATERIALS SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY USING THE STANDARD PROCTOR TEST, ACCORDING TO ASTM D698.
2. EMULSIFIED ASPHALT SHALL BE APPLIED TO THE BACK OF CURB BELOW GRADE, EDGE OF SIDEWALK AND TO THE EXISTING PAVEMENT EDGE. EMULSIFIED ASPHALT SHALL BE APPLIED UNDER PRESSURE OR WITH A "NEW" BRUSH. OLD OR DRIED OUT BRUSHES SHALL NOT BE USED.

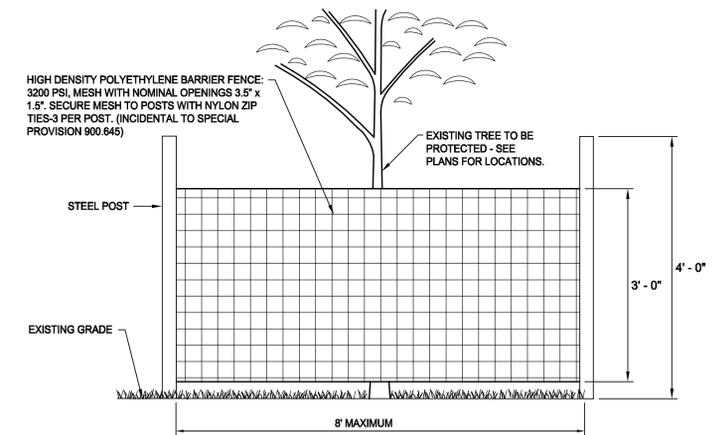
TYPICAL BITUMINOUS CONCRETE DRIVEWAY APRON WITH SIDEWALK DETAIL

NTS



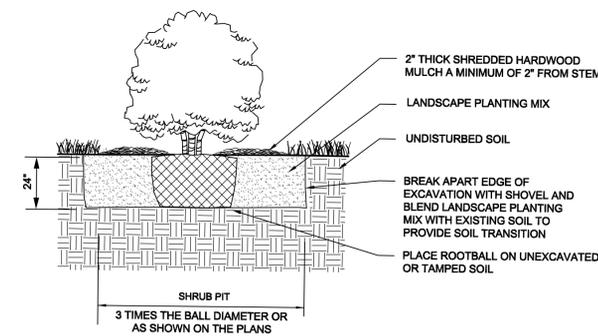
TREE PRUNING DETAIL

NTS



TREE PROTECTION ZONE BARRIER FENCE DETAIL

NTS



SHRUB PLANTING DETAIL

NTS

85% FINAL PLANS

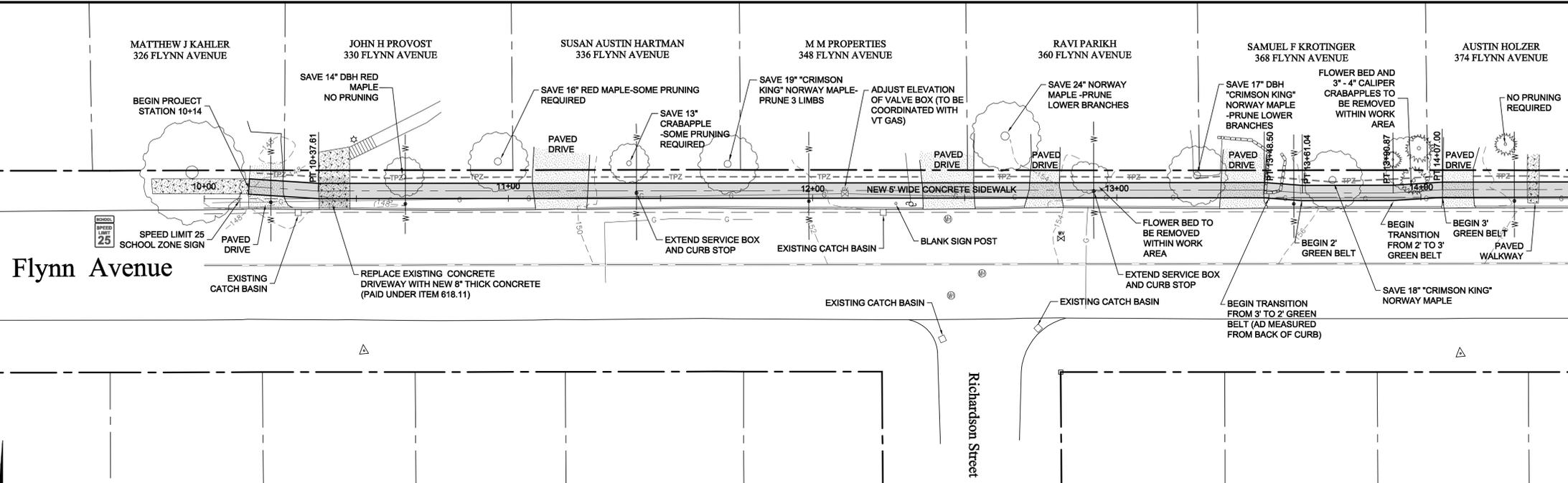
BURLINGTON STP SDWK(3)		Project No. I2028
FLYNN AVENUE SIDEWALK		Survey JPS
DETAILS & SPECIFICATIONS		Design DJG
		Drawn L&D
Lamoureux & Dickinson Consulting Engineers, Inc. 14 Morse Drive, Essex, VT 05452 802-878-4450 www.LDEngineering.com		Checked DJG/DLH
		Date OCT. 2014
		Scale AS NOTED
		Sheet number 2

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
								Landscape	Erosion Control	Sidewalk	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
										1	1		LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10				
										220	220		CY	COMMON EXCAVATION	203.15				
										5	5		CY	SOLID ROCK EXCAVATION	203.16				
										8.5	8.5		CY	EXCAVATION OF SURFACES AND PAVEMENTS	203.28				
										138	138		CY	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.26				
										0.1	0.1		CWT	EMULSIFIED ASPHALT	404.65				
										45	45		GAL	WATER REPELLENT, SILANE	514.10				
										10	10		HR	POWER BROOM RENTAL, TYPE I	608.30				
										1	1		MGAL	DUST CONTROL WITH WATER	609.10				
										360	360		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.10				
										142	142		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH	618.11				
										20	20		HR	UNIFORMED TRAFFIC OFFICERS	630.10				
										240	240		HR	FLAGGERS	630.15				
										1	1		LS	MOBILIZATION/DEMobilIZATION	635.11				
										1	1		LS	TRAFFIC CONTROL	641.10				
								6			6		LB	SEED	651.15				
								35			35		LB	FERTILIZER	651.18				
								0.14			0.14		TON	HAY MULCH	651.25				
								37			37		CY	TOPSOIL	651.35				
									340		340		SY	TEMPORARY EROSION MATTING	653.20				
									3		3		EACH	INLET PROTECTION DEVICE, TYPE II	653.41				
									34		34		EACH	DECIDUOUS SHRUBS	656.35				
								22		22	44		CY	LANDSCAPE BACKFILL, TRUCK MEASUREMENT	656.80				
										1	1		EACH	REMOVING SIGNS	675.50				
										1	1		EACH	ERECTING SALVAGED SIGNS	675.60				
										1	1		EACH	SETTING SALVAGED POSTS	675.61				
										4	4		EACH	SPECIAL PROVISION (EXTENSION SERVICE BOX)	900.620				
								60			60		LF	SPECIAL PROVISION (Wood Picket Fence)	900.640				
								1			1		LS	SPECIAL PROVISION (TREE PROTECTION PLAN)	900.645				
										17	17		TON	SPECIAL PROVISION (HAND PLACED BITUMINOUS CONCRETE)	900.680				

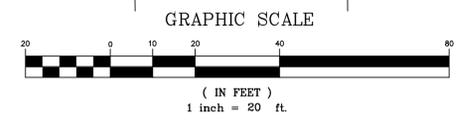
PROJECT NAME: **Burlington - Flynn Ave. Sidewalk**
 PROJECT NUMBER: **Burlington STP SDWK (3)**
 FILE NAME: 12028/1.9.15.updated PLOT DATE: 01/09/2015
 PROJECT LEADER: DJG DRAWN BY: L&D
 DESIGNED BY: DJG CHECKED BY: DLH
 QUANTITY SHEET #1 SHEET 3 OF 12

Flynn Avenue

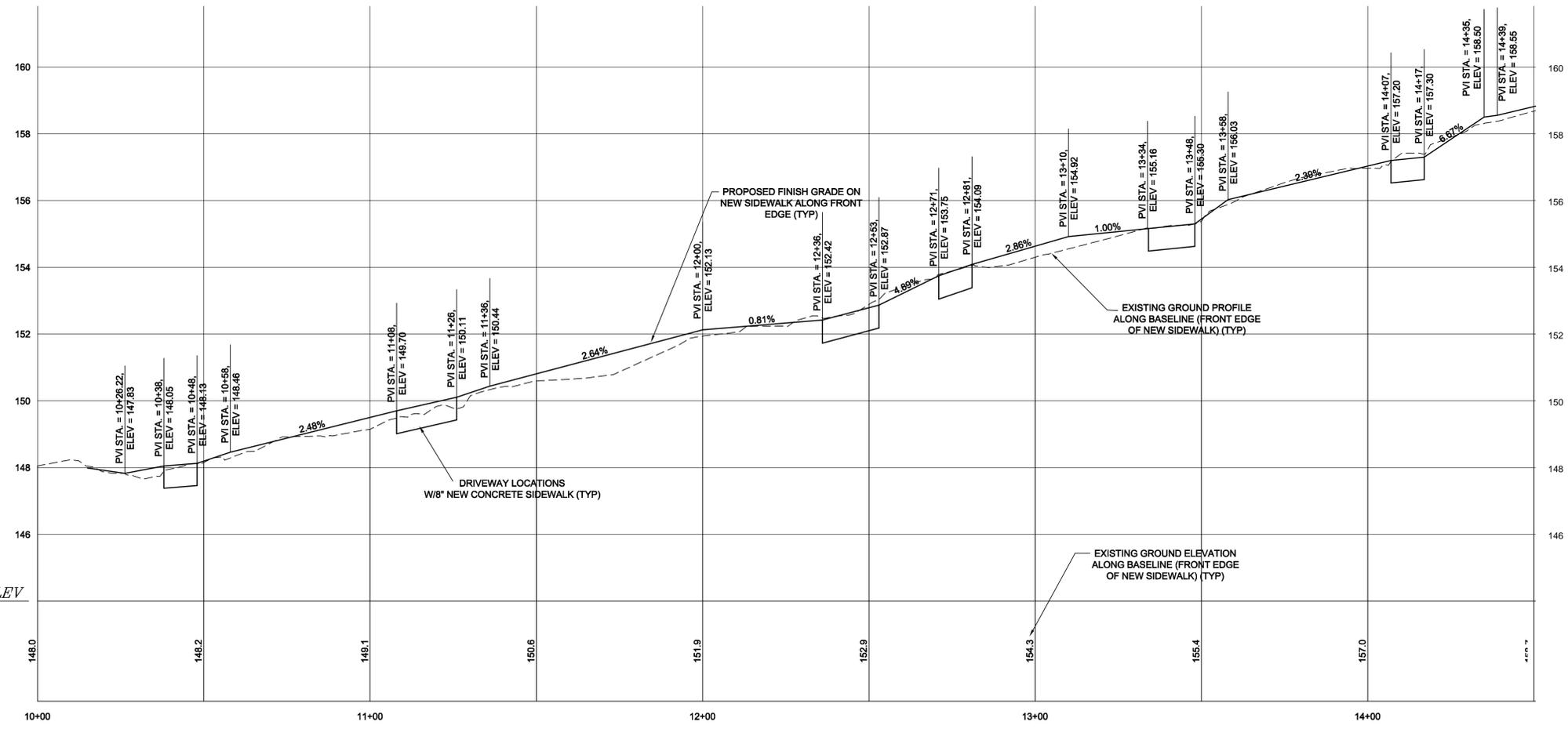


MATCHLINE STATION 14+50

- ADJUST ELEVATION OF GAS VALVE BOXES (CONTRACTOR TO COORDINATE WITH VT GAS, VT GAS TO ADJUST VALVE BOXES)
STA. 12+10.6 LT
- ITEM 618.10 PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
STA. 10+14 - 10+33.5 LT
STA. 10+43 - 11+06.5 LT
STA. 10+26 - 12+36 LT
STA. 12+53 - 12+70 LT
STA. 12+82 - 13+34 LT
STA. 13+46 - 14+07 LT
STA. 14+17 - 14+50 LT
- ITEM 618.11 PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH
STA. 10+33.5 - 10+43 LT
STA. 11+08.5 - 11+26 LT
STA. 12+36 - 12+53 LT
STA. 12+70 - 12+82 LT
STA. 13+34 - 13+48 LT
STA. 14+07 - 14+17 LT
- ITEM 653.41 INLET PROTECTION DEVICE, TYPE II
STA. 10+31 RT
STA. 12+23 RT
- ITEM 900.620 EXTENSION SERVICE BOX
STA. 11+42 LT
STA. 12+92 LT



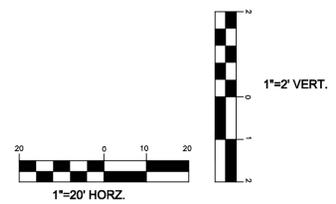
PLAN VIEW



PROFILE VIEW

DATUM ELEV
144.00

THE CONTRACTOR SHALL NOTIFY 'DIGSAFE' PRIOR TO ANY EXCAVATION



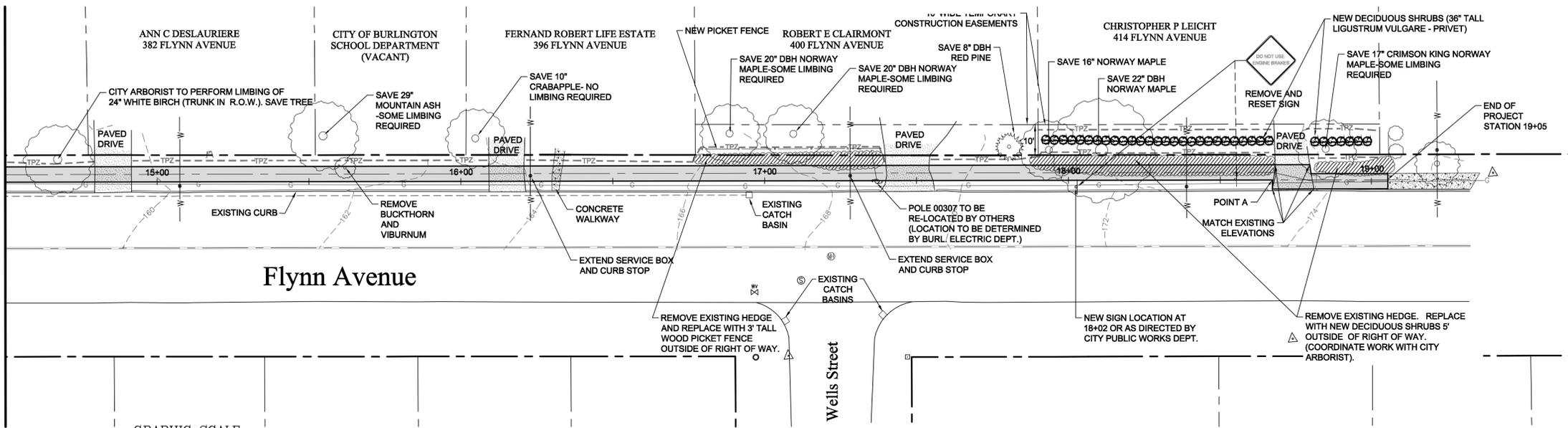
LEGEND

- PROPERTY LINE
- IRON PIPE FOUND
- CONCRETE MONUMENT FOUND
- △ SURVEY CONTROL POINT
- ↓ EXISTING SIGN
- GAS LINE WITH VALVE
- OVERHEAD UTILITY LINE WITH POLE
- - - EXISTING GROUND CONTOUR
- WATER LINE WITH VALVE, CURB STOP
- 11+00 PROPOSED SIDEWALK
- STONE WALL
- TOE OF SLOPE (FILL)
- △ TOE OF SLOPE (CUT)
- EXISTING TREE/SHRUB
- - - TPZ TREE PROTECT ZONE FENCE/LIMIT OF DISTURBANCE

85% FINAL PLANS

<p>BURLINGTON STP SDWK(3)</p> <p>FLYNN AVENUE SIDEWALK</p>	<p>Project No. 12028</p> <p>Survey JPS</p> <p>Design DJG</p>
<p>PLAN & PROFILE</p>	<p>Drawn L&D</p> <p>Checked DJG/DLH</p> <p>Date OCT. 2014</p> <p>Scale AS NOTED</p> <p>Sheet number 4</p>
<p>Lamoureux & Dickinson Consulting Engineers, Inc. 14 Morse Drive, Essex, VT 05452 802-878-4450 www.LDengineering.com</p>	

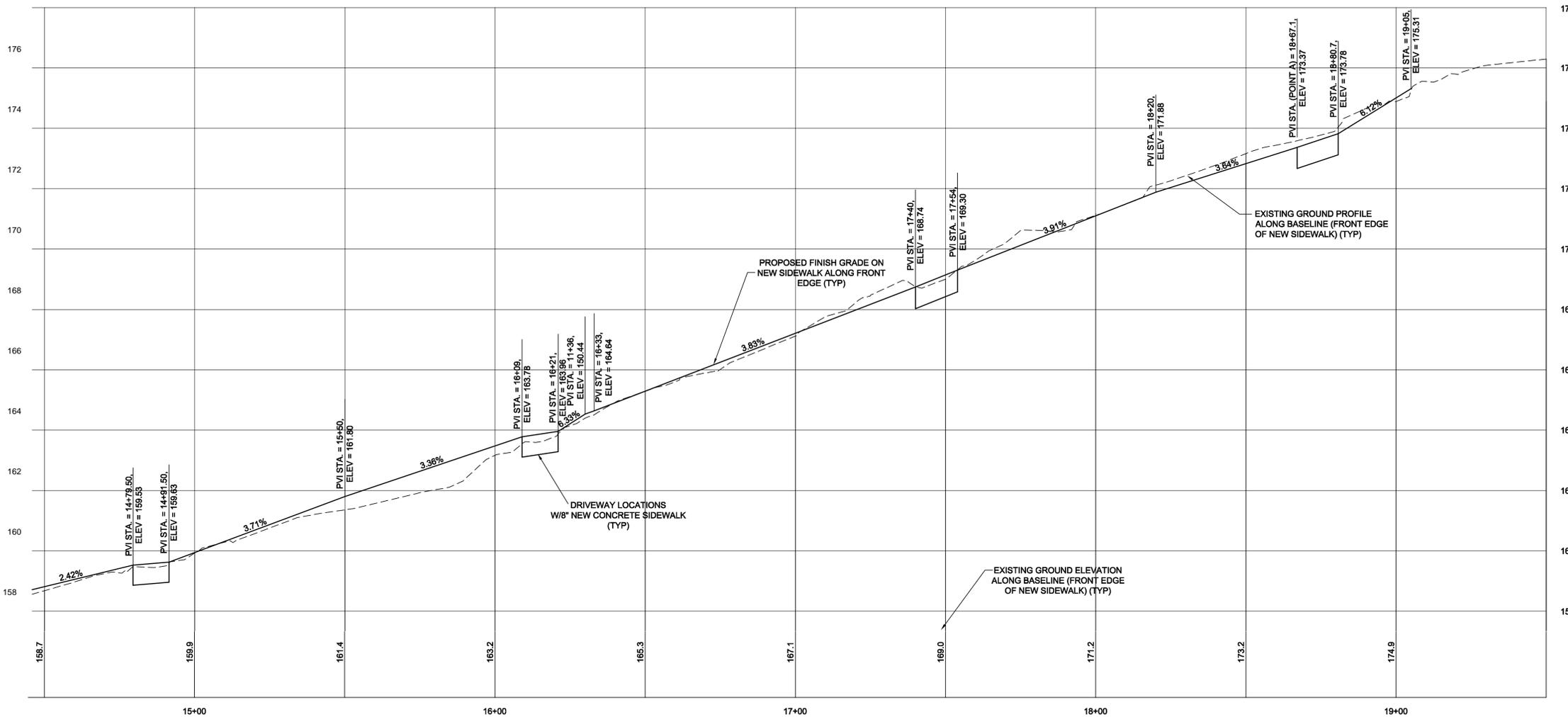
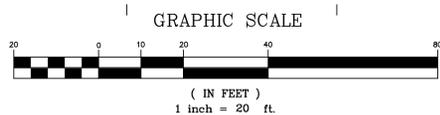
MATCHLINE STATION 14+50



Flynn Avenue

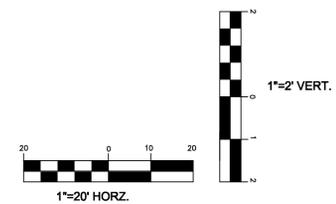
Wells Street

PLAN VIEW



PROFILE VIEW

THE CONTRACTOR SHALL NOTIFY 'DIGSAFE' PRIOR TO ANY EXCAVATION



- ADJUST ELEVATION OF GAS VALVE BOXES (CONTRACTOR TO COORDINATE WITH VT GAS, VT GAS TO ADJUST VALVE BOXES) STA. 12+10.6 LT
- ITEM 618.10 PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH STA. 14+50 - 14+79.5 LT STA. 14+91.5 - 14+95 LT STA. 16+21 - 17+40 LT STA. 17+55 - 18+68 LT STA. 18+80.5 - 19+05 LT
- ITEM 618.11 PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH STA. 14+79.5 - 14+91.5 LT STA. 16+09 - 16+21 LT STA. 17+40 - 17+55 LT STA. 18+68 - 18+80.5 LT

- ITEM 653.41 INLET PROTECTION DEVICE, TYPE II STA. 16+95 RT
- ITEM 900.620 EXTENSION SERVICE BOX STA. 16+23 LT STA. 17+28 LT
- RELOCATE POWER POLE 00307 (CONTRACTOR TO COORDINATE WITH POWER COMPANY) STA. 17+37 LT
- ITEM 675.50 REMOVING SIGNS STA. 18+55 LT
- ITEM 675.61 SETTING SALVAGED POSTS STA. 18+02 LT
- ITEM 675.60 ERECT SALVAGED SIGN STA. 18+02 LT
- ITEM 656.35 DECIDUOUS SHRUBS (EA) STA. 17+93 LT TO 19+00 LT 34 SHRUBS
- ITEM 656.80 LANDSCAPE BACKFILL (CY) STA. 17+93 LT TO 19+00 LT
- ITEM 900.64 SPECIAL PROVISION WOOD PICKET FENCE (LF) STA. 16+78 LT TO 17+38 LT

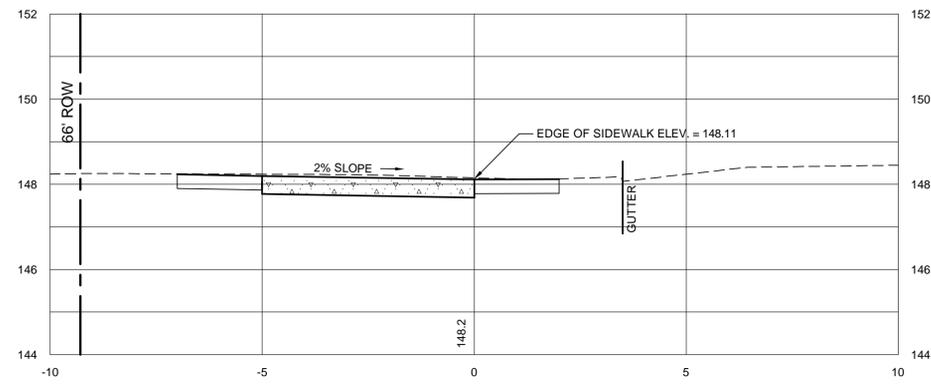
LEGEND

- PROPERTY LINE
- IRON PIPE FOUND
- CONCRETE MONUMENT FOUND
- SURVEY CONTROL POINT
- EXISTING SIGN
- GAS LINE WITH VALVE
- OVERHEAD UTILITY LINE WITH POLE
- EXISTING GROUND CONTOUR
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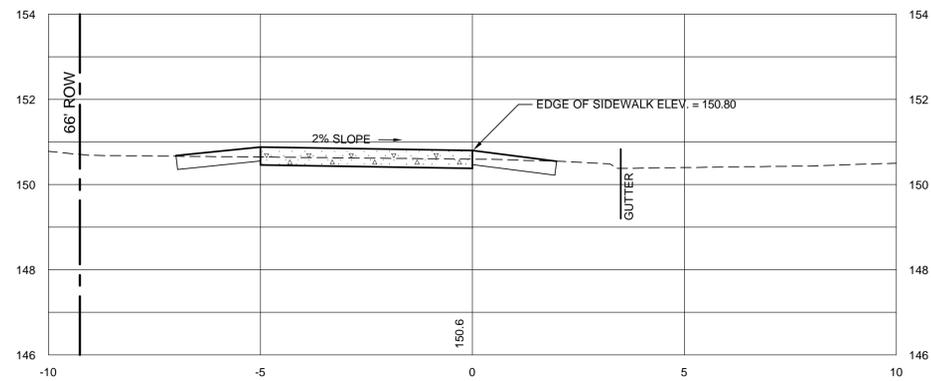
85% FINAL PLANS

<p>BURLINGTON STP SDWK(3) FLYNN AVENUE SIDEWALK</p>		<p>Project No. 12028 Survey JPS Design DJG Drawn L&D Checked DJG/DLH Date OCT. 2014 Scale AS NOTED Sheet number</p>
<p>PLAN & PROFILE</p>		<p>Lamoureux & Dickinson Consulting Engineers, Inc. 14 Morse Drive, Essex, VT 05452 802-878-4450 www.LDEngineering.com</p>
		5

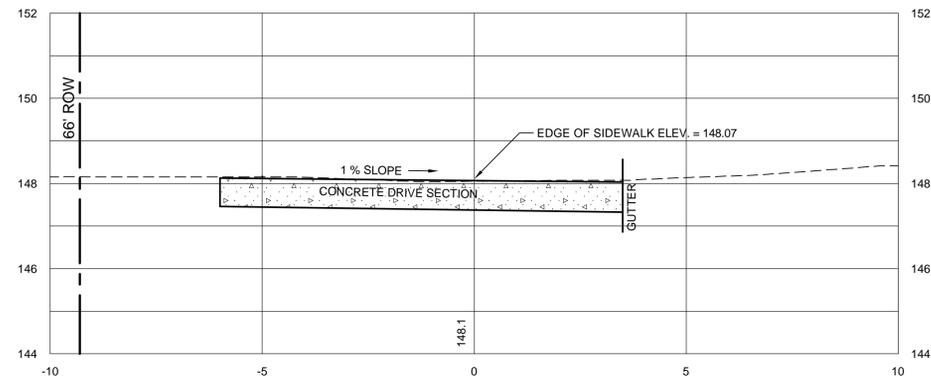
10+50



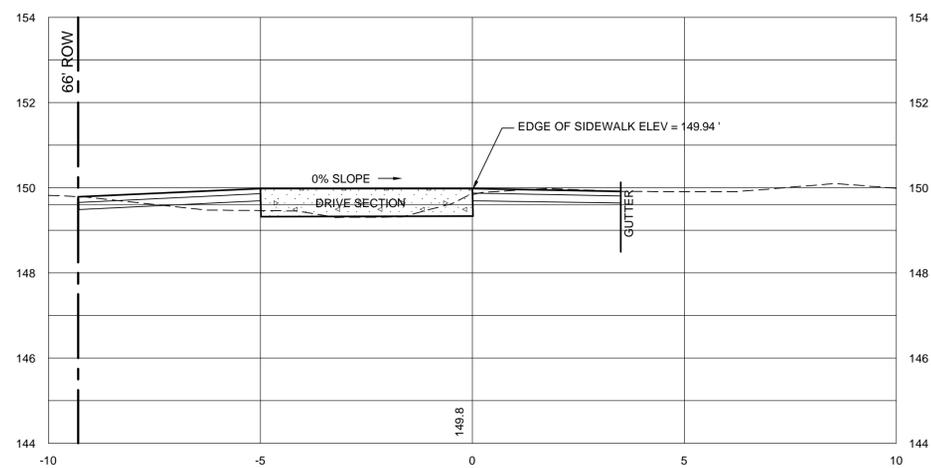
11+50



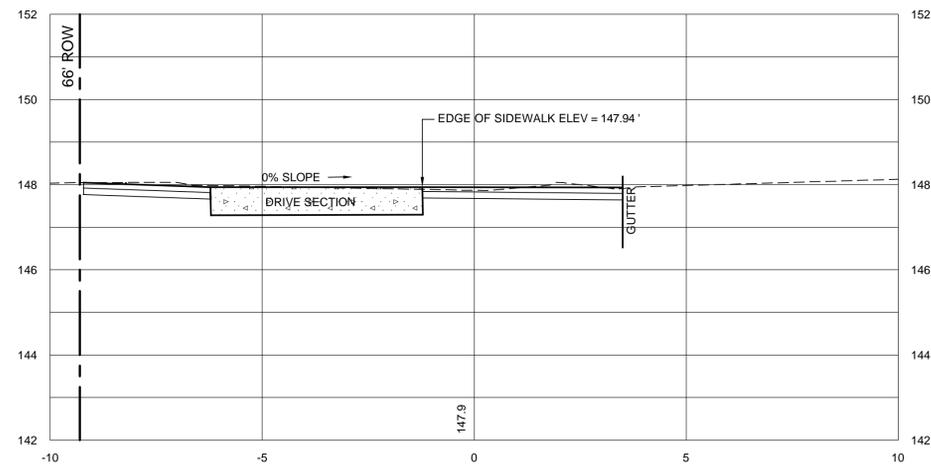
10+44
330 FLYNN AVE



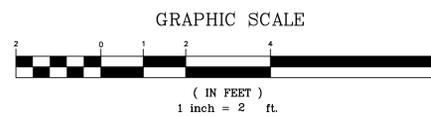
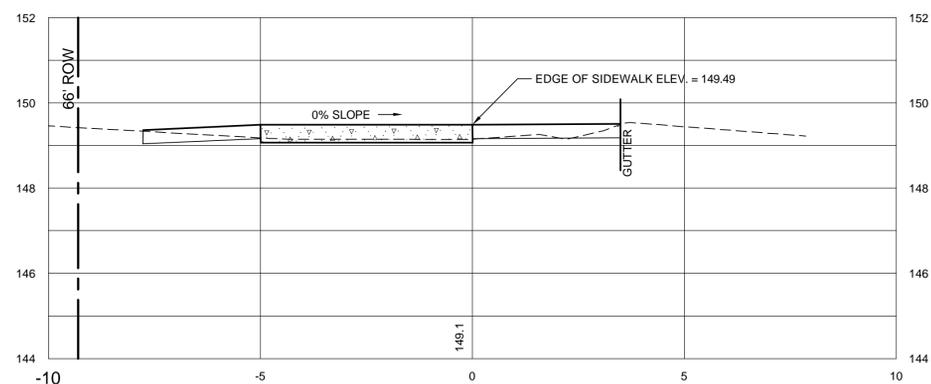
11+20
336 FLYNN AVE



10+20
326 FLYNN AVE



11+00



85% FINAL PLANS

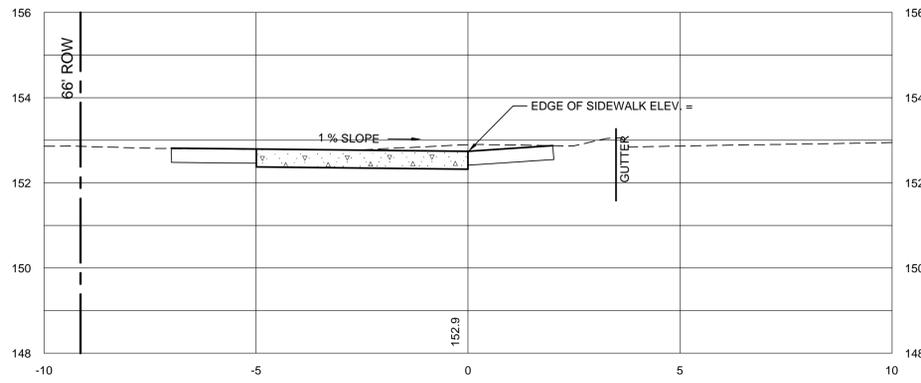
BURLINGTON STP SDWK(3)
FLYNN AVENUE SIDEWALK

CROSS SECTIONS
STA. 10+20 - 11+50

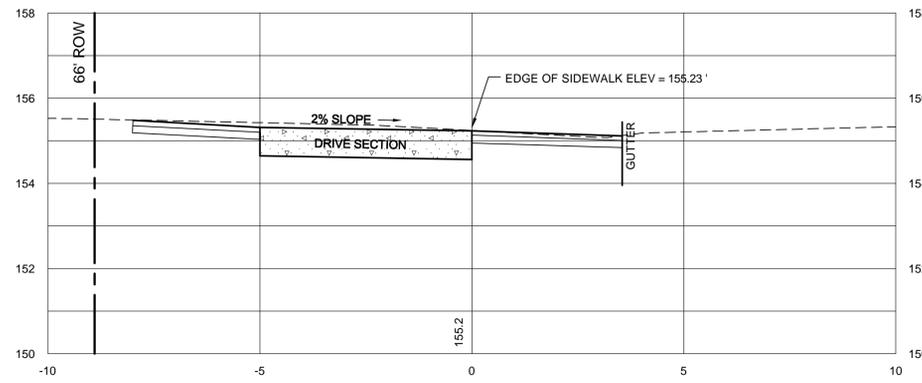
L Lamoureux & Dickinson
Consulting Engineers, Inc.
14 Morse Drive, Essex, VT 05452
802-878-4450 www.LDEngineering.com

Project No.	12028
Survey	JPS
Design	DJG
Drawn	L&D
Checked	DJG/DLH
Date	OCT. 2014
Scale	AS NOTED
Sheet number	6

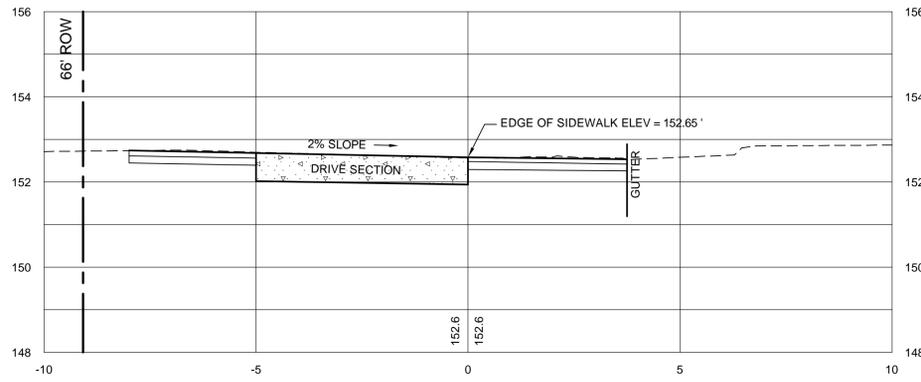
12+50



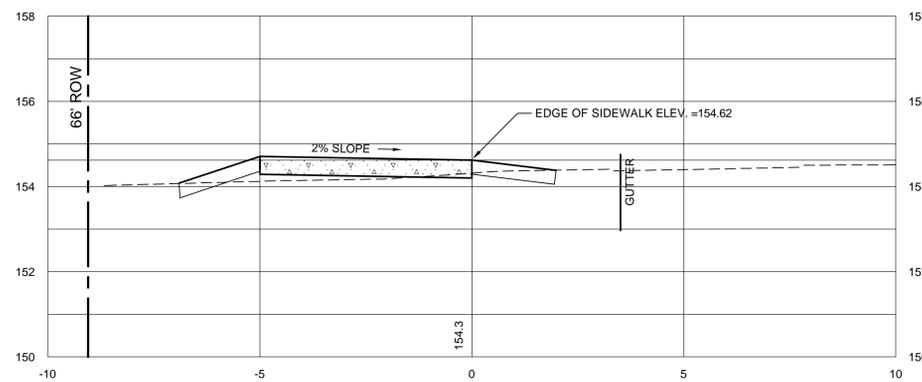
13+40
368 FLYNN AVE



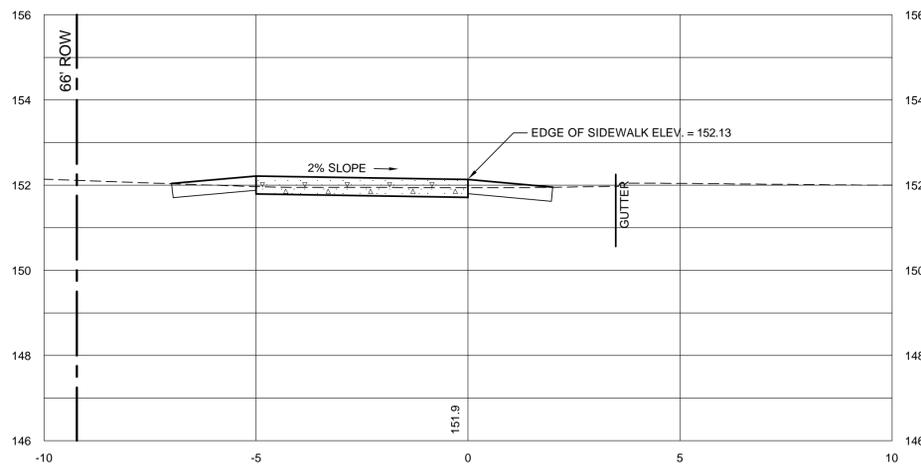
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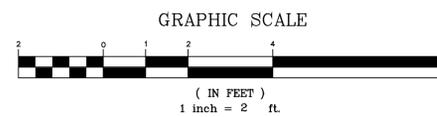
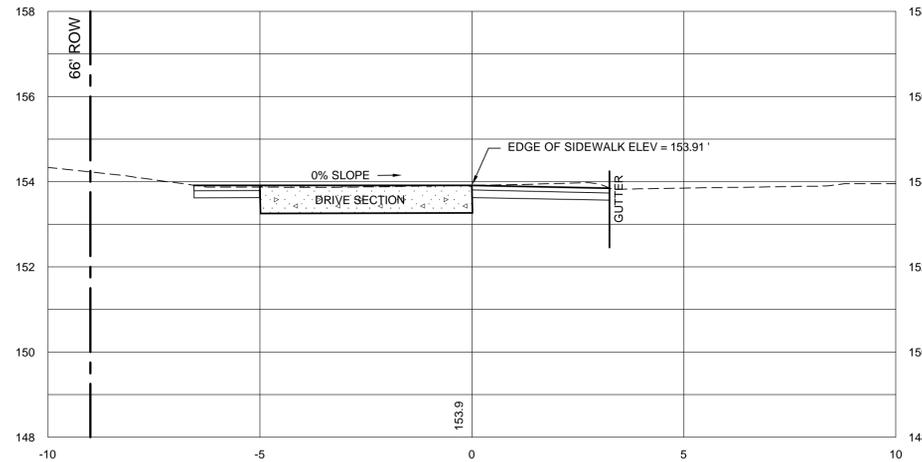
13+00



12+00

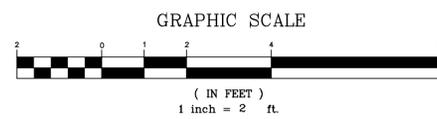
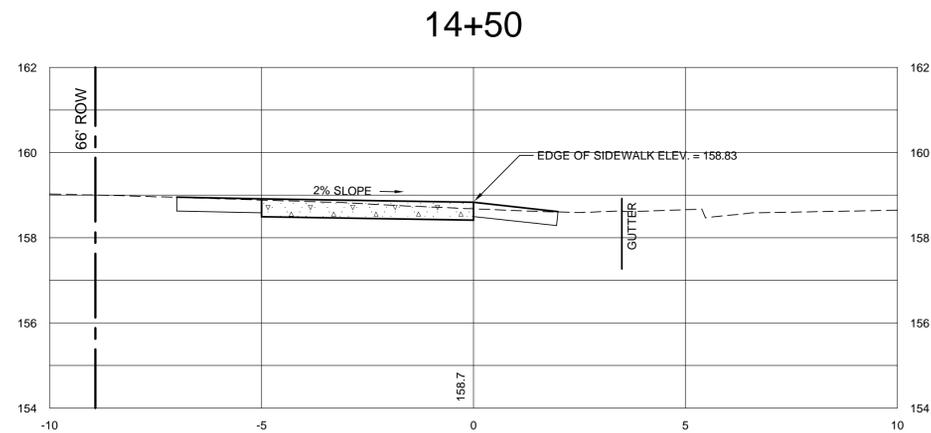
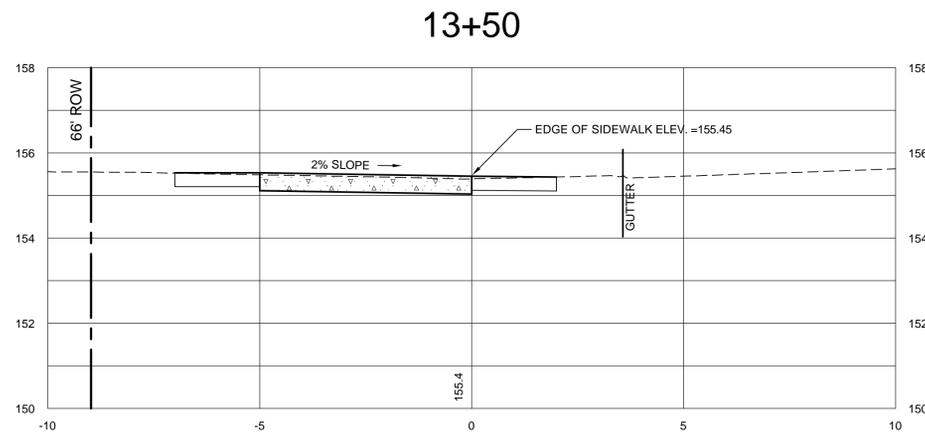
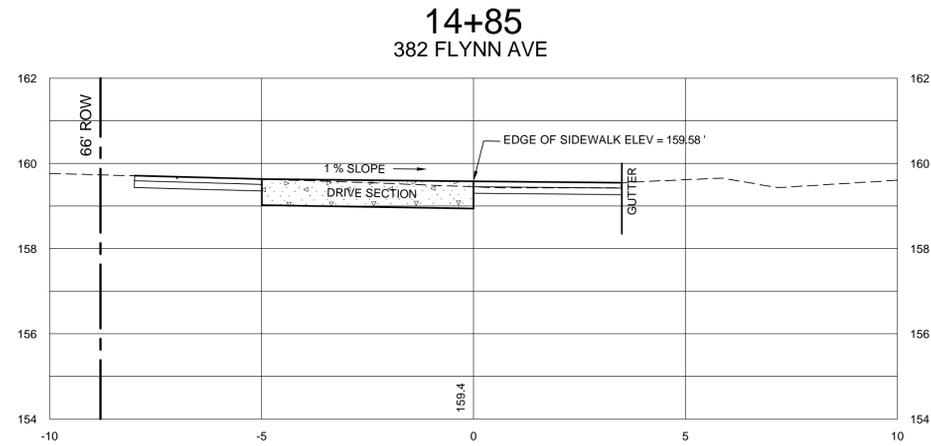
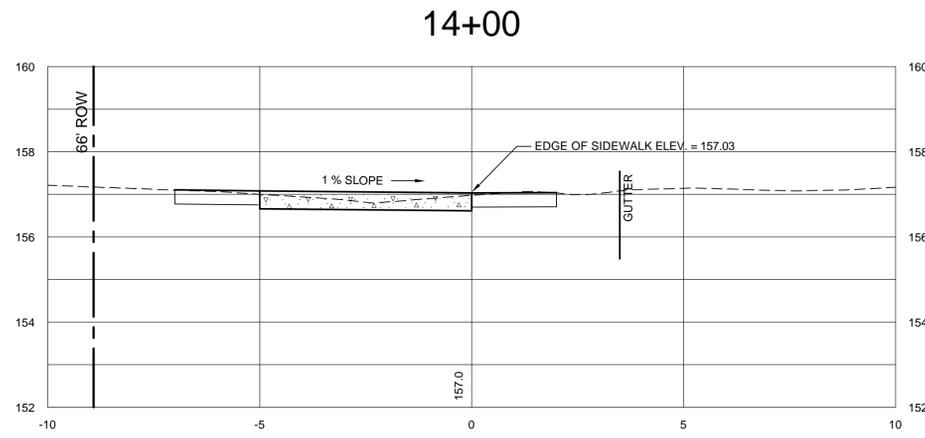
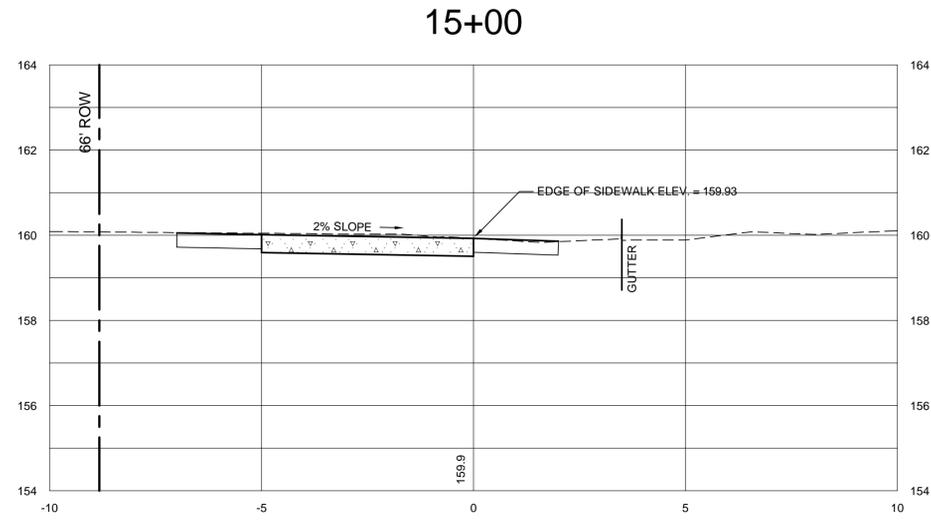
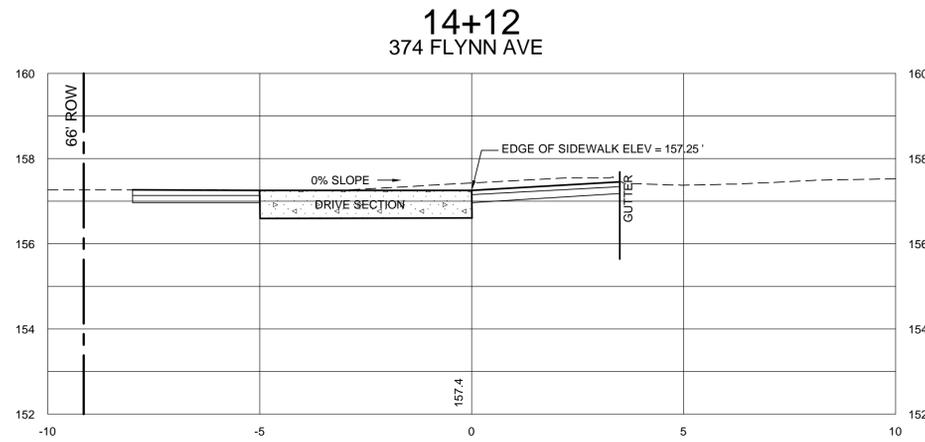


12+76
360 FLYNN AVE



85% FINAL PLANS

BURLINGTON STP SDWK(3) FLYNN AVENUE SIDEWALK	Project No. 12028
	Survey JPS
CROSS SECTIONS STA. 12+00 - 13+40	Design DJG
	Drawn L&D
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	Date OCT. 2014
LD	Scale AS NOTED
	Sheet number 7



85% FINAL PLANS

BURLINGTON STP SDWK(3)
FLYNN AVENUE SIDEWALK

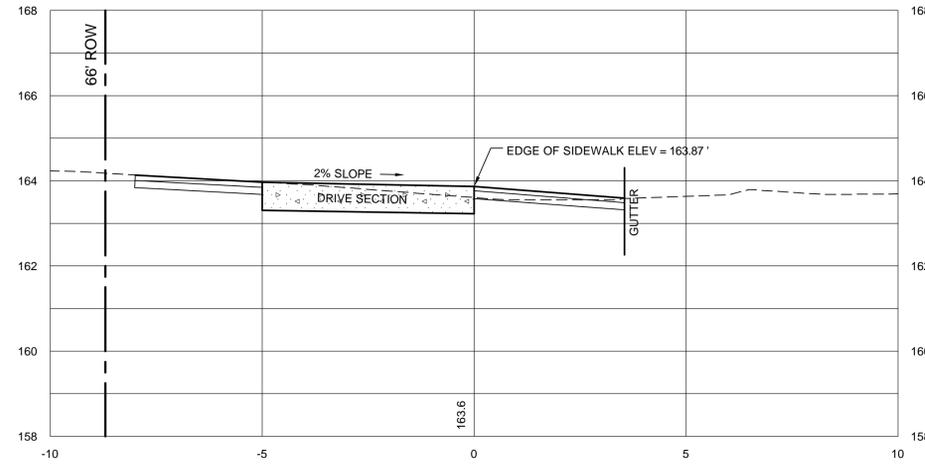
CROSS SECTIONS
STA. 13+50 - 15+00

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Consulting Engineers, Inc.
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802-878-4450 www.LDEngineering.com

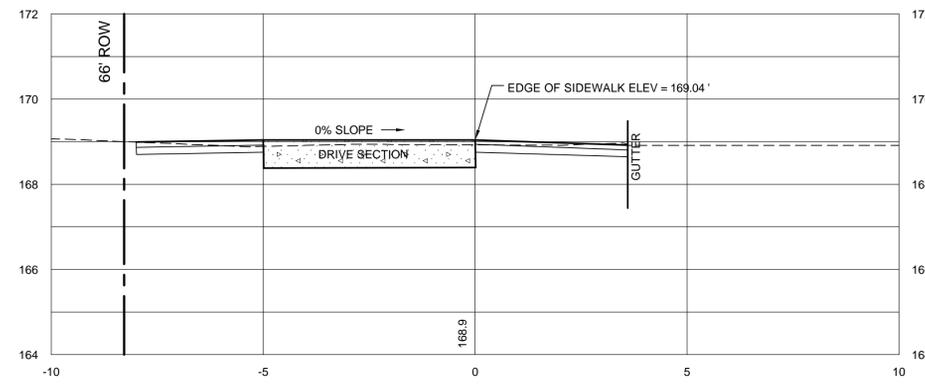
Project No.	12028
Survey	JPS
Design	DJG
Drawn	L&D
Checked	DJG/DLH
Date	OCT. 2014
Scale	AS NOTED
Sheet number	8

8

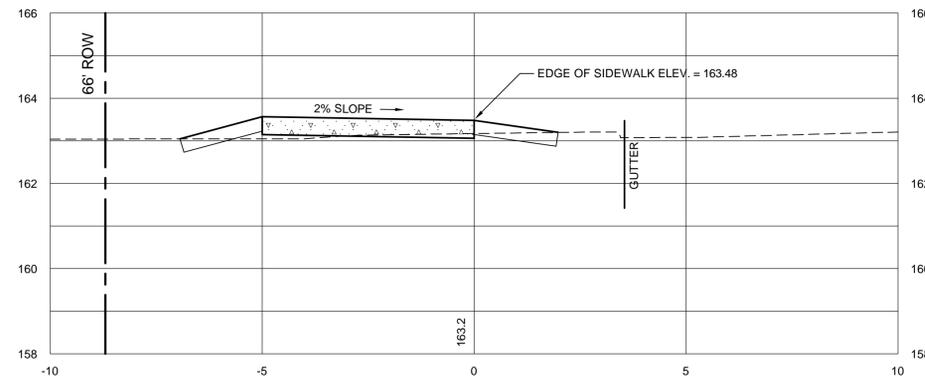
16+15
396 FLYNN AVE



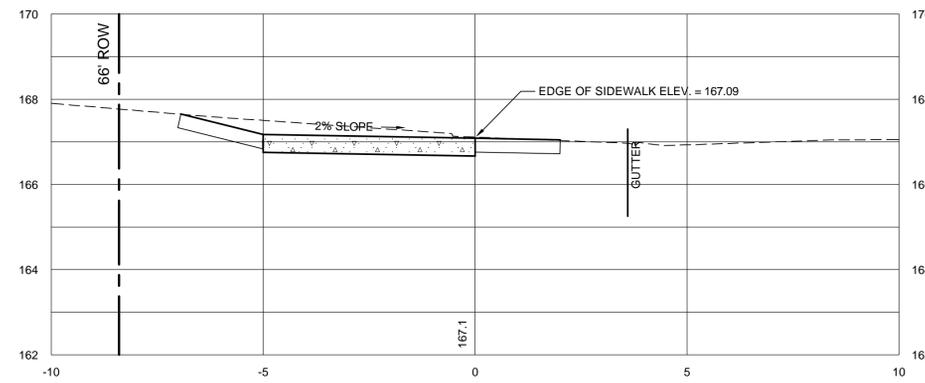
17+48
400 FLYNN AVE



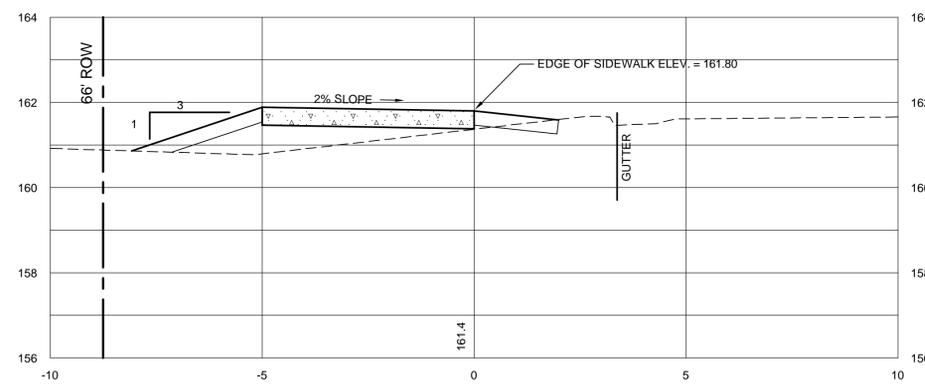
16+00



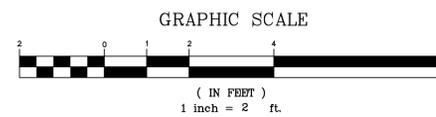
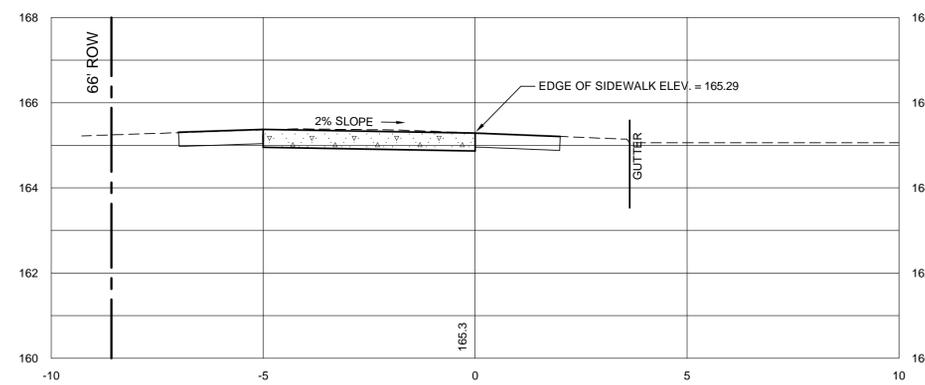
17+00



15+50

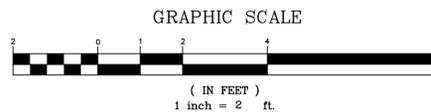
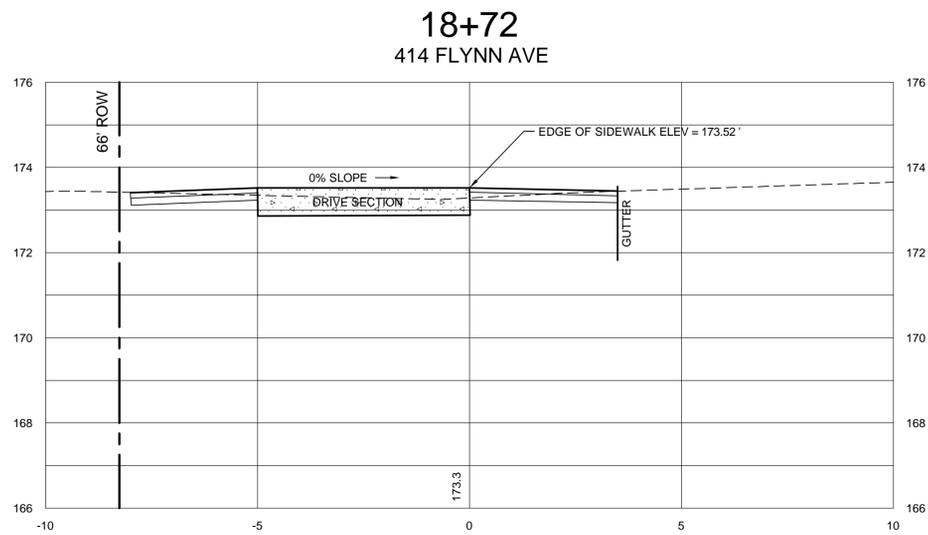
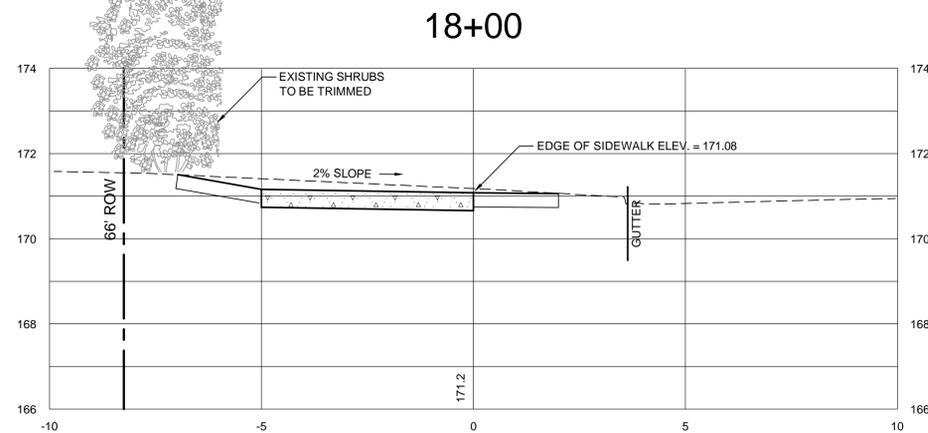
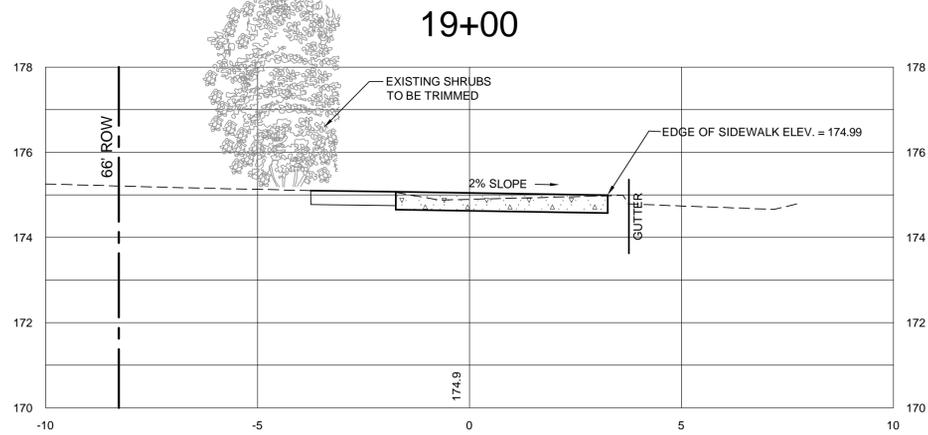
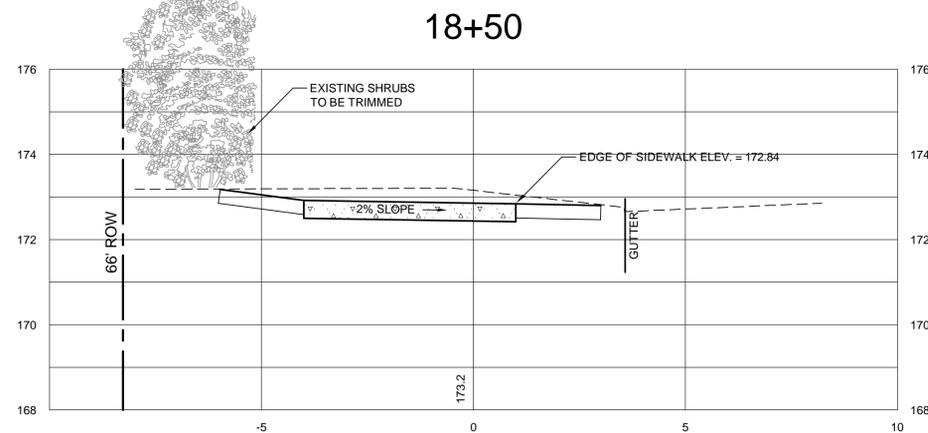


16+50



85% FINAL PLANS

BURLINGTON STP SDWK(3) FLYNN AVENUE SIDEWALK	Project No. 12028
	Survey JPS
CROSS SECTIONS STA. 15+50 - 17+48	Design DJG
	Drawn L&D
Lamoureux & Dickinson Consulting Engineers, Inc. 14 Morse Drive, Essex, VT 05452 802-878-4450 www.LDEngineering.com	Checked DJG/DLH
	Date OCT. 2014
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	Sheet number 9



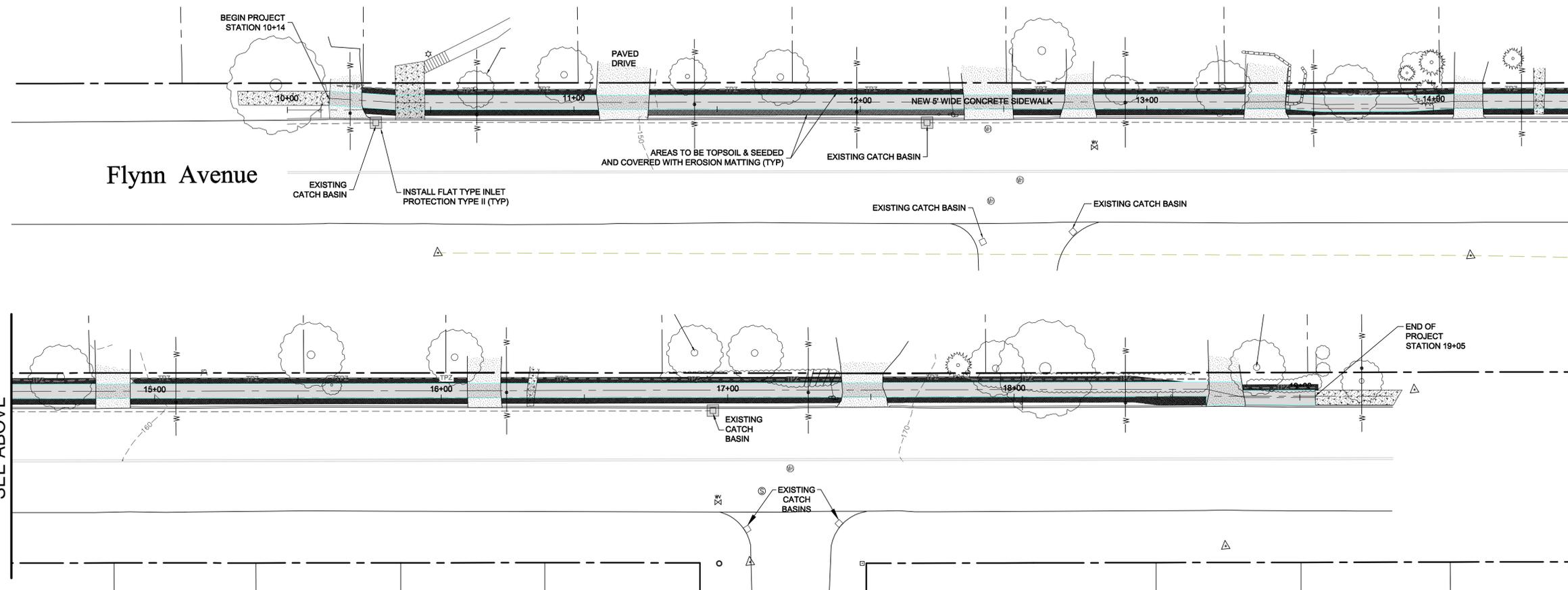
85% FINAL PLANS

BURLINGTON STP SDWK(3)
FLYNN AVENUE SIDEWALK

CROSS SECTIONS
STA. 18+00 - 19+00

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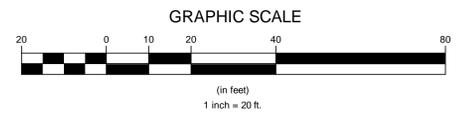
Project No.	12028
Survey	JPS
Design	DJG
Drawn	L&D
Checked	DJG/DLH
Date	OCT. 2014
Scale	AS NOTED
Sheet number	10



Flynn Avenue

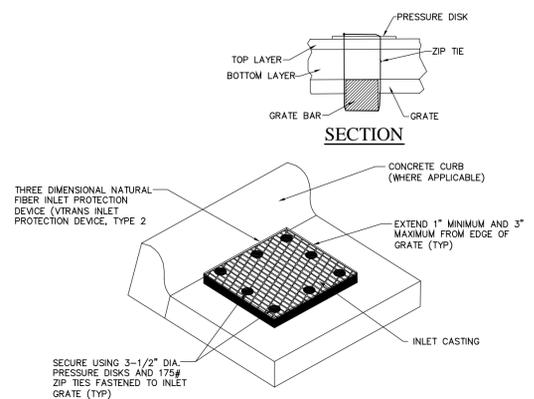
MATCHLINE STATION 14+50
SEE BELOW

MATCHLINE STATION 14+50
SEE ABOVE



EPSC LEGEND

- CATCH BASIN INLET PROTECTION
- TOPSOIL, SEED & EROSION MATTING
- TREE PROTECTION ZONE/LIMIT OF DISTURBANCE



FLAT TYPE INLET PROTECTION TYPE II
NTS

EROSION PREVENTION AND SEDIMENT CONTROL CONSTRUCTION EVENT SEQUENCING

1. THIS PROJECT DOES NOT NEED COVERAGE UNDER THE VERMONT CONSTRUCTION STORMWATER PERMIT PROGRAM, HOWEVER, THE CONTRACTOR SHALL FOLLOW THE VT DEC EROSION PREVENTION AND SEDIMENT CONTROL BEST PRACTICES FOR LOW RISK SITES.
2. THE CONTRACTOR SHALL NOT HAVE DISTURBED EARTH IN ANY ONE LOCATION FOR MORE THAN 14 CONSECUTIVE CALENDAR DAYS WITHOUT TEMPORARY OR FINAL STABILIZATION.
3. THE AREA OF DISTURBED SOILS AND THE DURATION OF EXPOSURE OF THE DISTURBED SOILS SHALL BE MINIMIZED. TO ACCOMPLISH THIS, WORK EFFORT SHOULD BE FOCUSED ON THE COMPLETION AND STABILIZATION OF ONE WORK ITEM COMPONENT BEFORE PROCEEDING TO THE NEXT WORK ITEM COMPONENT.
4. FOR CONSTRUCTION OF THE SIDEWALKS AND CURB EXTENSION, ONLY THAT AREA NECESSARY FOR INSTALLATION SHALL BE DISTURBED.
5. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED DAILY AND SHALL BE PROMPTLY REPAIRED, REPLACED, OR ADDITIONAL MEASURES TAKEN TO CORRECT DEFICIENCIES.
6. DURING CONSTRUCTION, AREAS OF COMPLETED WORK SHALL BE SEEDED AND MULCHED WITHIN 48 HOURS OF FINISH GRADING. THIS SHALL INCLUDE CUT OR FILL SLOPES, AND GRASS AREAS.
7. ALL FINISHED SLOPES SHALL BE 3H:1V OR FLATTER OR AS INDICATED ON PLANS. WHERE EROSION OCCURS FOLLOWING MULCHING, EROSION MATTING SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
8. DISTURBED AREAS THAT ARE NOT BEING ACTIVELY WORKED SHALL BE STABILIZED WITHIN 24 HOURS WITH TEMPORARY SEED AND MULCH OR MATTING.
9. THE CONTRACTOR SHALL REMOVE ALL FENCING UPON STABILIZATION AND REVEGETATION.
10. DUST SHALL BE CONTROLLED IN ALL AREAS USING WATER AS NEEDED.

EROSION CONTROL SPECIFICATIONS

1. PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTHMOVING, THE CONTRACTOR SHALL INSTALL A CONTINUOUS SILT FENCE AT THE LIMIT OF DISTURBANCE AS SHOWN ON THESE PLANS.
2. TO ENSURE PROPER FUNCTION, THE SILT FENCE SHALL BE PROPERLY INSTALLED. THIS INCLUDES DRIVING THE POSTS TO A DEPTH OF 12 INCHES, KEYING THE SILT FENCE FABRIC 6 INCHES INTO THE GROUND, AND COMPACTING THE SOIL OVER THE KEYED-IN PORTION OF THE FABRIC. USE ONLY MANUAL METHODS OF INSTALLATION WITHIN WETLANDS AND BUFFER ZONES.
3. THE SILT FENCE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION OF THE PROJECT AND UNTIL ESTABLISHMENT OF VEGETATION SUFFICIENT TO PREVENT SOIL EROSION. AFTER WORK IS COMPLETE AND THE DISTURBED SOIL HAS BEEN STABILIZED, THE CONTRACTOR SHALL REMOVE ALL SILT FENCE FROM THE SITE.
4. PROPER SILT FENCE MAINTENANCE SHALL INCLUDE INSPECTIONS AT REGULAR INTERVALS AND AFTER EVERY HEAVY RAINFALL TO ENSURE THAT THERE ARE NO BROKEN POSTS, FABRIC TEARS, WASHOUTS OF THE BOTTOM EDGE OF THE FABRIC, OR EXCESSIVE SEDIMENT ACCUMULATION. ANY DAMAGE OR DEFECTS SHALL BE REPAIRED IMMEDIATELY. SEDIMENT ACCUMULATION OF MORE THAN ONE-QUARTER THE HEIGHT OF THE FABRIC SHALL BE REMOVED AND PLACED IN AN APPROPRIATE AREA OUTSIDE WETLANDS AND BUFFER ZONES.
5. THE CONTRACTOR SHALL INSTALL SILT FENCE AT OTHER LOCATIONS AS NEEDED.

85% FINAL PLANS

<p>BURLINGTON STP SDWK(3) FLYNN AVENUE SIDEWALK</p>		<p>Project No. 12028</p>
<p>EPSC SHEET</p>		<p>Survey JPS</p>
<p>Lamoureux & Dickinson Consulting Engineers, Inc. 14 Morse Drive, Essex, VT 05452 802-878-4450 www.LDengineering.com</p>		<p>Design DJG</p>
<p>Scale AS NOTED</p>		<p>Drawn L&D</p>
<p>Sheet number 11</p>		<p>Checked DJG/DLH</p>
<p>Date OCT. 2014</p>		<p>Date OCT. 2014</p>



Two Lane Road Work Area For Traffic Control Typical

LEGEND

CONSTRUCTION SIGNS
 LTS LONG TERM STATIONARY SIGNS

DESIGN FORMULAS USED

$$L = \frac{WS^2}{60}$$

S = 30 MPH
 L = 90'
 W = 6' (CENTER LINE SHIFT DISTANCE)

* MUTCD TYPICAL APPLICATIONS TA-2, TA-10 & TA-13 SHALL BE USED WHEN NECESSITATED BY THE CONTRACTOR'S WORK OPERATIONS



SHORT-TERM STATIONARY DAY SIGNS

TEMPORARY TRAFFIC CONTROL NOTES

- 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 MUTCD, PART 6.
- ALL TEMPORARY CONTROL DEVICES SHALL MEET OR EXCEED VTRANS STANDARD DETAILS E-100, E-101, E-102, E-106, E-110, WHERE E - STANDARDS CONFLICT WITH THE MUTCD, THE MUTCD SHALL GOVERN.
- FOR ANY WORK WITHIN THE HIGHWAY RIGHT-OF-WAY A MINIMUM OF ONE-WAY THRU TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. CONTINUOUS TWO-WAY TRAFFIC SHALL BE MAINTAINED AT NIGHT, ON WEEKENDS AND HOLIDAYS, DURING PEAK TRAFFIC AND WHENEVER POSSIBLE DURING CONSTRUCTION.
- SHORT TERM STATIONARY TRAFFIC CONTROL SIGNING AND CHANNELIZING DEVICES SHALL BE IN ACCORDANCE WITH THE APPROPRIATE MUTCD STANDARDS (PART 6). TYPICAL APPLICATIONS 3.10, 22 AND 23 ARE USEFUL EXAMPLES. VARIATIONS IN THE SIGNING PACKAGES MAY BE DICTATED BY UNIQUE GEOMETRY, SPECIFIC CONSTRUCTION ACTIVITIES, AND/OR TRAFFIC CONDITIONS.
- APPROACH CONSTRUCTION SIGNING (LONG TERM STATIONARY) SHALL REMAIN IN PLACE DURING THE ENTIRE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL NOT WORK WITHIN THE HIGHWAY ROW WITHOUT THE APPROPRIATE CONSTRUCTION SIGNING AND TEMPORARY TRAFFIC CONTROL DEVICES IN PLACE.
- TO FACILITATE THE FLOW OF TRAFFIC, THE CITY SHALL HAVE AUTHORITY TO MODIFY THE CONTRACTOR'S ONGOING OPERATIONS OR PROPOSED METHODS OF CONSTRUCTION AS DEEMED NECESSARY FOR THE SAFETY, CONVENIENCE AND WELFARE OF THE TRAVELING PUBLIC. THE CONTRACTOR SHALL COMPLY WITH THE TOWN DIRECTIVES CONCERNING THIS MATTER.
- THE MIXING OF TEMPORARY TRAFFIC CONTROL DEVICES (DRUMS, CONES, ETC.) ALONG A TANGENT HIGHWAY IS NOT ALLOWED. DRUMS SHOULD BE USED TO CHANNELIZE OR DELINEATE ROAD USER'S FLOW WHILE REFLECTORIZED CONES ARE BETTER SUITED TO DELINEATE DRIVES WITHIN THE WORK ZONE.
- REASONABLE ACCESS FOR VEHICLES, BICYCLES & PEDESTRIANS TO THE SCHOOL AND RESIDENCES WITHIN THE PROJECT AREA SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE A MINIMUM 48 HOUR ADVANCE NOTICE TO PROPERTY OWNERS PRIOR TO COMMENCING WORK IN DRIVES. WHERE SIDEWALKS CROSS DRIVES, THEY SHALL BE CONSTRUCTED IN TWO PHASES, MAINTAINING ACCESS TO DRIVEWAYS AT ALL TIMES.
- FLAGGERS AND/OR TRAFFIC CONTROL PERSONNEL SHALL DIRECT BICYCLISTS THROUGH THE CONSTRUCTION AREA IN THE SAME MANNER AS VEHICULAR TRAFFIC. PEDESTRIANS, WHEN PRESENT, SHALL BE ESCORTED THROUGH THE WORK AREA. THE CONTRACTOR SHALL DESIGNATE AN EMPLOYEE TO ESCORT PEDESTRIANS AROUND THE PERIMETER OF THE CONSTRUCTION SITE.
- ANY SIDEWALK CLOSURES/PEDESTRIAN DETOURS THAT WILL BE LEFT IN PLACE OVERNIGHT MUST INCLUDE SIGNS THAT MEET THE MUTCD AND PEDESTRIAN CHANNELIZING DEVICES THAT MEET MUTCD AND ADA. CHANNELIZING DEVICES MUST HAVE A CONTINUOUS DETECTABLE BOTTOM EDGE PER MUTCD STANDARDS.
- SIDEWALK CLOSED SIGNS (R9-9) SHALL BE REQUIRED IN ADVANCE OF THE WORK AREA ON COMPLETED PORTIONS OF THE PROJECT TO PREVENT PEDESTRIANS FROM ENTERING THE WORK ZONE.
- THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.
- THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE PROPER PROTECTION AND A TEMPORARY PEDESTRIAN ACCESSIBLE ROUTE (TPAR) HAVE BEEN PROVIDED.

TEMPORARY CONSTRUCTION SIGNS

- ALL SIGN STANDS AND POST INSTALLATION SHALL BE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM 350 (NCHRP) COMPLIANT.
- AS A MINIMUM, ROLL-UP SIGN MATERIAL SHALL HAVE ASTM D 4956-01 TYPE VI FLUORESCENT ORANGE RETRO-REFLECTIVE SHEETING.
- ALL POST MOUNTED SIGNS SHALL HAVE ASTM D 4956-01 TYPE VII, TYPE VIII OR TYPE IX FLUORESCENT ORANGE RETRO-REFLECTIVE SHEETING.
- ALL TRAFFIC CONES, BARRICADES AND BARRELS SHALL USE TYPE III RETRO-REFLECTIVE SHEETING.
- ALL STATIONARY SIGNS SHALL BE MOUNTED ON TWO 3 LBS/FT FLANGED CHANNEL POSTS. NO SIGN POSTS SHALL EXTEND OVER THE TOP EDGE OF THE SIGN INSTALLED ON SAID POSTS.
- PRIOR TO PLACING LONG TERM STATIONARY WORK ZONE SIGNS ON THE PROJECT, THE CONTRACTOR MUST FURNISH FOR THE CITY'S APPROVAL A DETAIL FOR LONG TERM STATIONARY WORK ZONE SIGNS ON STEEL POSTS SHOWING STUBS PROJECTING A MAXIMUM OF 4 INCHES ABOVE GROUND LEVEL AND BOLTS FOR SIGN POST ATTACHMENT SHALL BE NCHRP 350 COMPLIANT, IF IN THE CLEAR ZONE.

FLAGGERS AND UNIFORM TRAFFIC OFFICERS

FLAGGERS SHALL BE REQUIRED TO ATTEND A 4 HOUR APPROVED TRAINING COURSE AND CARRY THEIR FLAGGER CERTIFICATION CARD WITH THEM. THE CONTRACTOR SHALL PROVIDE COPIES OF ALL DOCUMENTATION OF THE CERTIFICATION OBTAINED FOR EACH FLAGGER ON THE PROJECT.

ALL FLAGGERS OR UTO SERVING AS A TRAINED FLAGGER SHALL WEAR SAFETY APPAREL MEETING REQUIREMENTS OF ISEA 'AMERICAN NATIONAL STANDARD OF HIGH-VISIBILITY APPAREL' AND LABELED AS MEETING THE ANSI 107-1999 STANDARD PERFORMANCE FOR CLASS 2 RISK EXPOSURE. INDIVIDUALS ENGAGED IN TRAFFIC CONTROL SHALL WEAR THE HIGH-VISIBILITY VEST WITH 'TRAFFIC CONTROL' VISIBLE, WITHOUT EXCEPTION.

85% FINAL PLANS

BURLINGTON STP SDWK(3) FLYNN AVENUE SIDEWALK	Project No. 12028
	Survey JPS
CONSTRUCTION APPROACH DETAILS	Design DJG
	Drawn L&D
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	Date
LD	Scale AS NOTED
	Sheet number 12