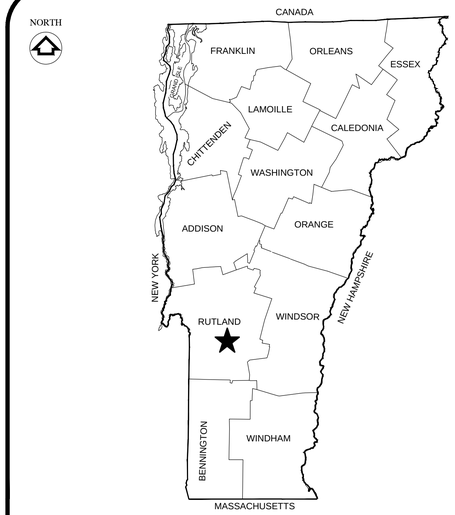
PLANS FOR CONSTRUCTION OF

KILLINGTON AVENUE SIDEWALK EXTENSION

RUTLAND, VERMONT

RUTLAND CITY TAP TA15(5)

JUNE 2, 2016



LOCATION MAP

RUTLAND, VERMONT

NO SCALE

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PROJECT OFFICIALS

BOARD OF ALDERMEN

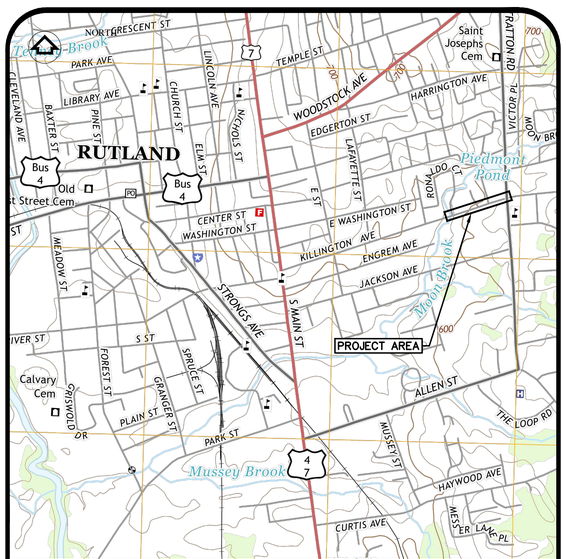
WILLIAM NOTTE (PRESIDENT)
DAVID ALLAIRE
MATT BLOOMER
SHARON DAVIS
TOM DEPOY
GARY DONAHUE
CHRISTOPHER ETTORI
MELINDA HUMPHREY
EDWARD LARSON
VANESSA ROBERTSON
SCOTT TOMMOLA

COMMISSIONER OF PUBLIC WORKS

JEFF WENNBERG

CITY ENGINEER

JAMES ROTONDO, PE



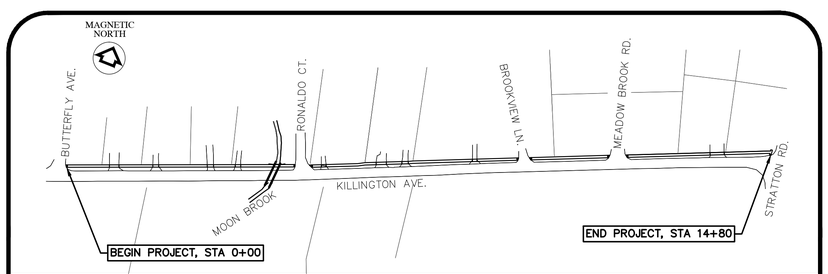
VICINITY MAP

SCALE: 1"=1500'

PROJECT LOCATION: BEGINNING AT THE INTERSECTION OF KILLINGTON AVENUE AND BUTTERFLY AVENUE, CONTINUE EAST ON KILLINGTON AVENUE, ENDING AT THE INTERSECTION OF KILLINGTON AVENUE AND STRATTON ROAD.

PROJECT DESCRIPTION: WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES THE CONSTRUCTION OF SIDEWALK, BOX CULVERT REPLACEMENT, AND DRAINAGE IMPROVEMENTS.

LENGTH OF PROJECT : 1,480 FEET



SITE LAYOUT

SCALE: 1"=150'

PRELIMINARY DESIGN

NOT FOR CONSTRUCTION

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GENERAL NOTES;

1. SURVEY PROVIDED BY DUFRESNE GROUP IN DECEMBER 2015. THIS IS NOT A BOUNDARY SURVEY. HORIZONTAL AND VERTICAL DATUM IS BASED ON AN ASSUMED DATUM. ALL BEARINGS ARE IN REFERENCE TO MAGNETIC NORTH OBSERVED ON DATE OF SURVEY.

2. RIGHT-OF-WAY (ROW) INFORMATION PROVIDED BY RICHARD BELL LAND SURVEYORS, INC. ROW ON KILLINGTON AVENUE WAS DETERMINED TO BE 3 RODS.

3. CONTRACTOR SHALL USE EXTREME CAUTION TO PREVENT DAMAGE TO EXISTING UTILITIES. CONTRACTOR SHALL COORDINATE WITH DIG SAFE (1-888-DIG SAFE) A MINIMUM OF 72 HOURS PRIOR TO EXCAVATION.

4. CONTRACTOR SHALL EXERCISE DUE CARE TO PREVENT DAMAGE TO ROOT SYSTEMS OF EXISTING VEGETATION. ALL GRASS AREAS DISTURBED SHALL BE RESTORED AS DESCRIBED IN SPECIAL PROVISION 900.645, CLASS A RESTORATION OF GROWTH. THIS ITEM INCLUDES LOAM, FERTILIZER, GRADING, SEEDING, MULCHING AND INCIDENTAL WORK. CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND GUARDING ALL TREES, SHRUBS AND VEGETATION AS PART OF THE CLEARING AND GRUBBING AND TREE PROTECTION WORK ITEMS UNLESS SPECIFICALLY DESIGNATED FOR REMOVAL.

5. ALL TREES AND SHRUBS WITHIN PROJECT AREA AND TEMPORARY CONSTRUCTION EASEMENTS ARE TO REMAIN UNLESS OTHERWISE NOTED. CONTRACTOR SHALL EXERCISE DUE CARE TO PREVENT DAMAGE TO EXISTING TREES AND SHRUBS IN ACCORDANCE WITH VTSSC SECTION 656.10. CONTRACTOR IS RESPONSIBLE FOR REMOVAL, CARE AND REPLANTING (OR REPLACEMENT) OF ANY LANDSCAPING REMOVED OR DISTURBED DURING CONSTRUCTION.

6. ALL WORK SHALL BE DONE IN THE PUBLIC RIGHT-OF-WAY OR EASEMENT AREAS. CONTRACTOR SHALL NOT WORK OUTSIDE THE CONSTRUCTION LIMITS SHOWN ON THE PLANS. ADDITIONAL EASEMENTS MAY BE ACQUIRED AT CONTRACTOR'S EXPENSE.

7. ALL EXISTING UNDERGROUND UTILITIES WERE LOCATED USING THE BEST AVAILABLE INFORMATION. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL UTILITIES WHETHER OR NOT THEY ARE SHOWN ON THE PLANS. ALL REPAIRS TO DAMAGED UTILITIES SHALL BE MADE BY THE CONTRACTOR USING MATERIALS APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

8. CONTRACTOR SHALL VERIFY LOCATION OF ALL OVERHEAD AND UNDERGROUND ELECTRIC, CABLE AND TELEPHONE LINES AND TAKE NECESSARY PRECAUTIONS IN STRICT ACCORDANCE WITH OSHA STANDARDS DURING CONSTRUCTION. CONTRACTOR SHALL CONTACT THE LOCAL POWER UTILITY AND TELEPHONE UTILITY REGARDING ANY NECESSARY SUPPORT OF ANY UTILITY POLES DURING CONSTRUCTION. LOCAL ELECTRIC UTILITY IS GREEN MOUNTAIN POWER (GMP). LOCAL PHONE UTILITY IS FAIRPOINT COMMUNICATIONS.

9. GENERALLY HEAVY OR DARK LINE WORK OR NOTES REFER TO PROPOSED IMPROVEMENTS. LIGHT LINE WORK OR TEXT GENERALLY DENOTES EXISTING FEATURES.

10. CONTRACTOR SHALL MAINTAIN ONE LANE OPEN TO TRAFFIC AT ALL TIMES ON KILLINGTON AVENUE, INCLUDING DURING THE CULVERT REPLACEMENT. CONTRACTOR SHALL MINIMIZE IMPACTS TO AUTOMOBILE AND PEDESTRIAN TRAFFIC. CONTRACTOR SHALL PROVIDE ACCESS TO ALL PROPERTIES THROUGHOUT THE PROJECT DURATION. THE ONLY EXCEPTION SHALL BE DURING INDIVIDUAL DRIVE SIDEWALK CONSTRUCTION. CONTRACTOR SHALL BE REQUIRED TO SUBMIT TRAFFIC SIGN PACKAGE AND A TRAFFIC MANAGEMENT PLAN TO THE ENGINEER FOR APPROVAL A MINIMUM OF 10 DAYS PRIOR TO CONSTRUCTION. ALL CONSTRUCTION SIGNAGE SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. ALL TRAFFIC CONTROL SHALL BE INCLUDED UNDER ITEM 641.10.

11. THE 2011 VAOT STANDARD SPECIFICATIONS FOR CONSTRUCTION (VTSSC) AND ALL SPECIAL PROVISIONS PROVIDE NECESSARY INFORMATION AND ARE PART OF THE CONTRACT DOCUMENTS FOR THIS PROJECT.

12. ALL NEW TRAFFIC SIGNS TO BE INSTALLED IN THIS PROJECT SHALL CONFORM TO THE CURRENT MUTCD REQUIREMENTS AND VTRANS STANDARDS.

13. ANY SPOT ELEVATIONS ARE PROVIDED FOR REFERENCE ONLY. FINAL ELEVATIONS MAY VARY AS NECESSARY TO MAINTAIN DRAINAGE AND COMPLIANCE OF ALL SIDEWALK IMPROVEMENTS WITH AMERICAN DISABILITIES ACT REQUIREMENTS, VERMONT AGENCY OF TRANSPORTATION (VAOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND VAOT STANDARD DRAWINGS, LATEST VERSIONS. DETECTABLE WARNING SURFACES ARE A REQUIREMENT FOR THIS PROJECT, REFER TO VAOT STANDARD C-3A.

14. PRIVATELY OWNED WALKWAYS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO MATCH EXISTING CONDITIONS UNLESS OTHERWISE NOTED.

15. SIDEWALK AT DRIVEWAYS SHALL BE IN ACCORDANCE WITH VAOT STANDARDS NOTED ON THE PLANS FOR EACH DRIVEWAY. ALL DRIVEWAYS SHALL BE CONSTRUCTED TO COMMERCIAL DRIVE STANDARDS (8" THICK CONCRETE). DRIVEWAY PAVEMENT RESTORATION SHALL MATCH EXISTING DRIVEWAY EDGES AS SHOWN ON THE PLANS FOR ALL DRIVEWAYS.

16. EXCAVATION AND REMOVAL OF EXISTING PAVEMENT SHALL BE CLASSIFIED AS EXCAVATION OF PAVEMENT AND SURFACES.

17. REFER TO ADDITIONAL DETAILS ON SHEET C5 FOR SIDEWALK, CURB, AND APPURTENANT CONSTRUCTION REQUIREMENTS.

18. THIS PROJECT IS NOT SUBJECT TO THE REQUIREMENTS OF THE CONSTRUCTION GENERAL PERMIT 3-9020 AND THEREFORE A PERMIT IS NOT REQUIRED. HOWEVER, CONTRACTOR SHALL COMPLY WITH THE LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL.

LEGEND

EXISTING		PROPOSED	
502	MINOR CONTOUR		SIDEWALK
500	MAJOR CONTOUR		CURB
	PAVED ROAD/DRIVE		CONSTRUCTION LIMITS
	GRAVEL ROAD/DRIVE		CROSSWALK
	TREELINE		PAVEMENT
	PROPERTY LINE		RAMP ARROW
	RIGHT OF WAY		DETECTABLE WARNING SURFACE
	STONEWALL		
	METAL RAILING		SINGLE POLE SIGN
	WOODEN FENCE	700.0+	SPOT ELEVATION
	SEWER MANHOLE		
	DRAIN MANHOLE		
	CATCH BASIN		
	GATE VALVE		
	WATER SHUT OFF		
	HYDRANT		
	BENCHMARK		
	IRON PIN/PIPE FOUND		
	TRAVERSE MARKER		
	UTILITY POLE		
	GUY WIRE		
	SINGLE POLE SIGN		
	DOUBLE POLE SIGN		
	TREE/SHRUB		

ABBREVIATIONS

CB	CATCH BASIN
CI	CAST IRON
CMP	CORRUGATED METAL PIPE
DI	DROP INLET
DIA	DIAMETER
EL	ELEVATION
HYD	FIRE HYDRANT
ID	INSIDE DIAMETER
INV	INVERT
IPF	IRON PIPE FOUND
SMH	SEWER MANHOLE
TBM	TEMPORARY BENCH MARK
TYP	TYPICAL
WSO	WATER SHUTOFF

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KILLINGTON AVENUE SIDEWALK EXTENSION
RUTLAND CITY TAP TA15(5)

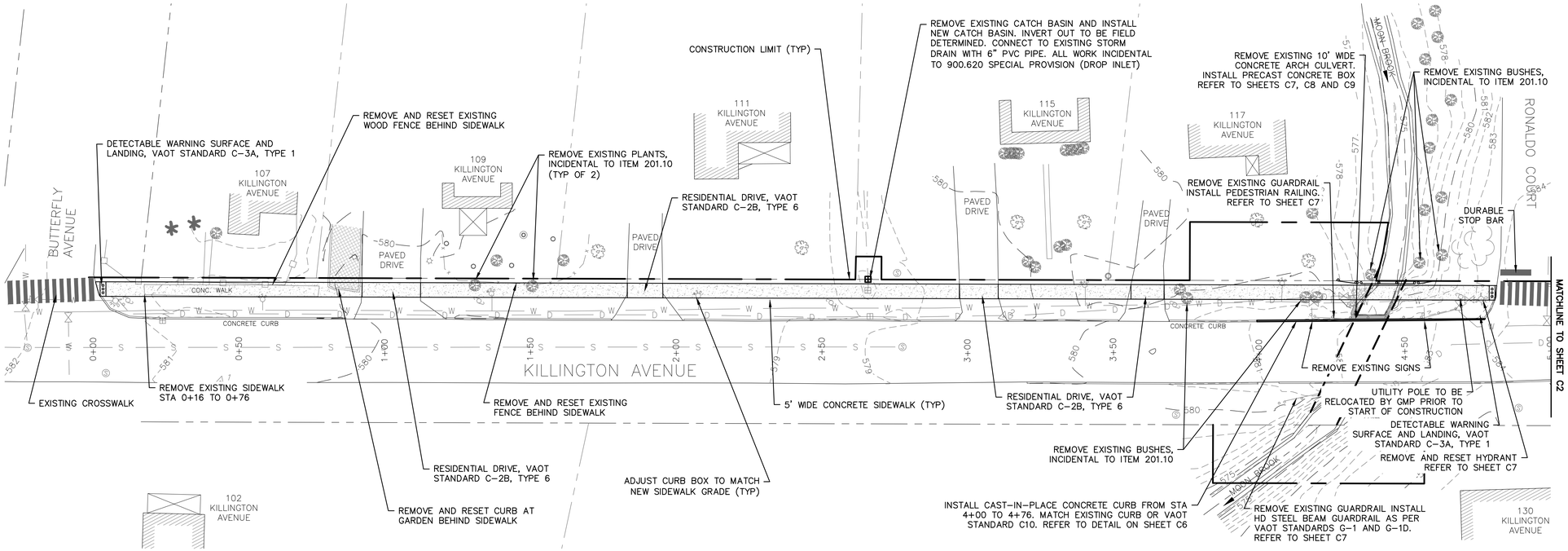
GENERAL NOTES, LEGEND AND ABBREVIATIONS

RUTLAND, VERMONT

Project #	7150033
Project Mgr.	C.M.HASKINS
Design by	C.W.FLOWER
Drawn by	C.W.FLOWER
Reviewed by	C.M.HASKINS
Approved by	C.M.HASKINS
Date	JUNE 2, 2016
Scale	AS SHOWN

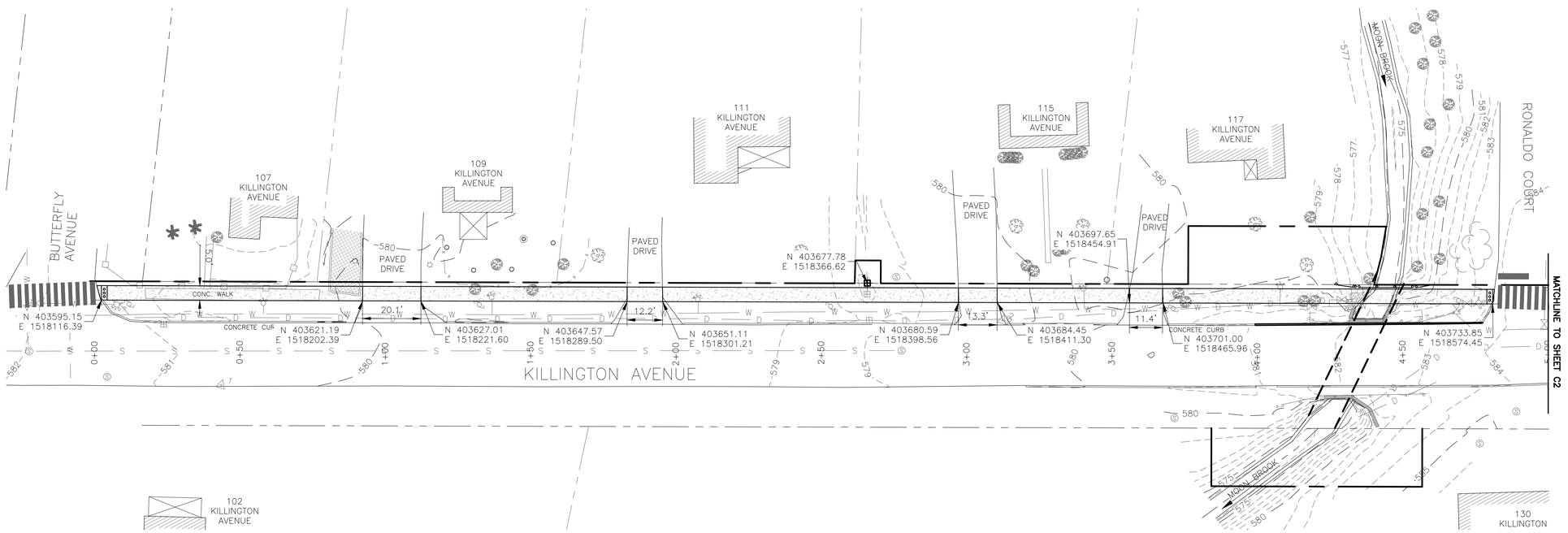
G1

FILE: M:\CADD Files\Rutland City VT\Killington Ave\7150017 - G1.dwg Jun 07, 2016 - 12:05pm



KILLINGTON AVENUE SITE PLAN - STA 0+00 TO 5+00

SCALE: 1"=20'



KILLINGTON AVENUE LAYOUT PLAN - STA 0+00 TO 5+00

SCALE: 1"=20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

NOTES:

1. REFER TO SHEET G1 FOR GENERAL NOTES, LEGEND, AND ABBREVIATIONS
2. REFER TO SHEET C4 FOR CROSS SECTIONS
3. REFER TO SHEET C5 FOR SIDEWALK DETAILS

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KILLINGTON AVENUE SIDEWALK EXTENSION
RUTLAND CITY TAP TA15(5)

SITE PLAN & LAYOUT PLAN STA 0+00 TO 5+00

RUTLAND, VERMONT

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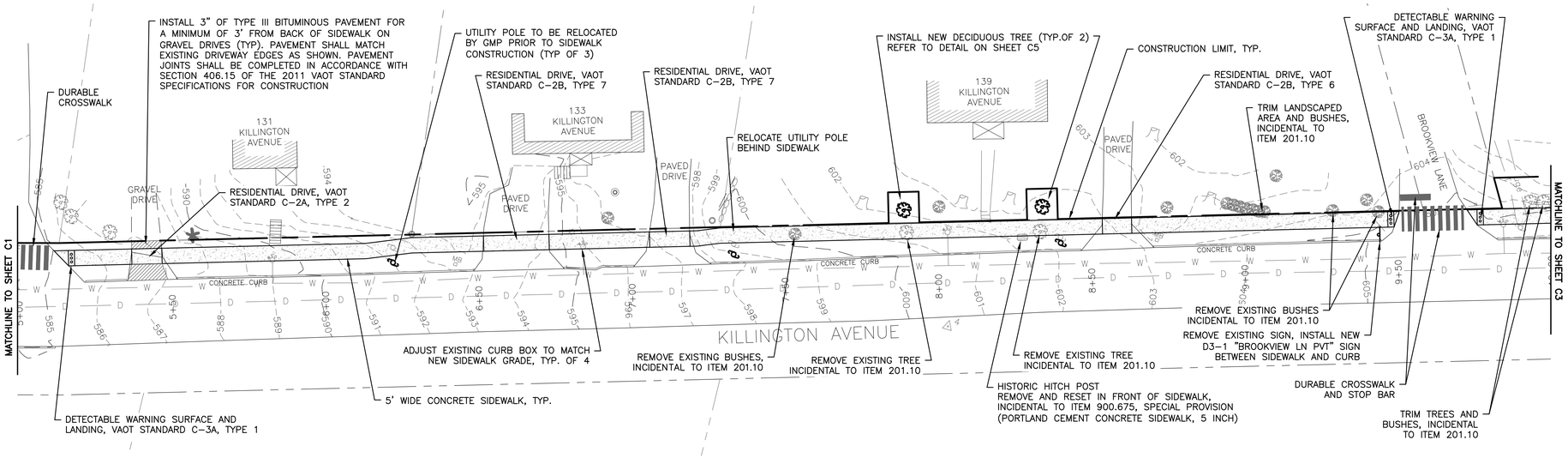
C1

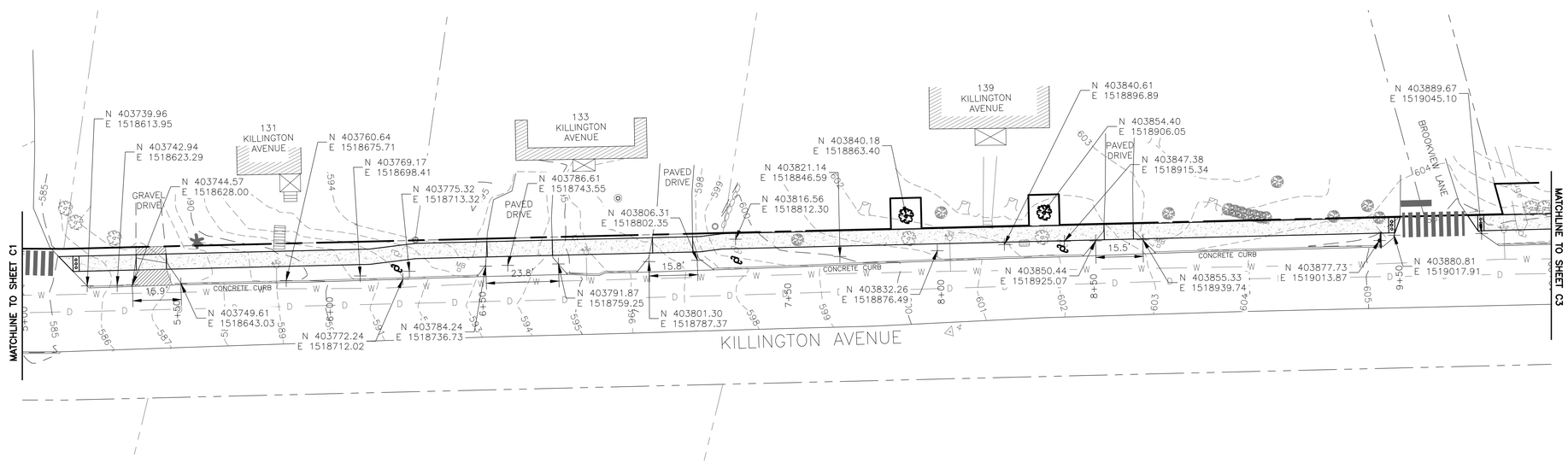
SHEET 2 OF 7

FILE: M:\CADD Files\Rutland City VT\Killington Ave\7150017 - C1-CK.dwg Jun 07, 2016 - 12:06pm



KILLINGTON SITE PLAN - STA 5+00 TO 10+00

SCALE: 1"=20'



KILLINGTON AVENUE LAYOUT PLAN - STA 5+00 TO 10+00

SCALE: 1"=20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

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KILLINGTON AVENUE SIDEWALK EXTENSION
RUTLAND CITY TAP TA15(5)

SITE PLAN & LAYOUT PLAN
STA 5+00 TO 10+00

RUTLAND, VERMONT

Project #	7150033
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C2

SHEET 3 OF 7

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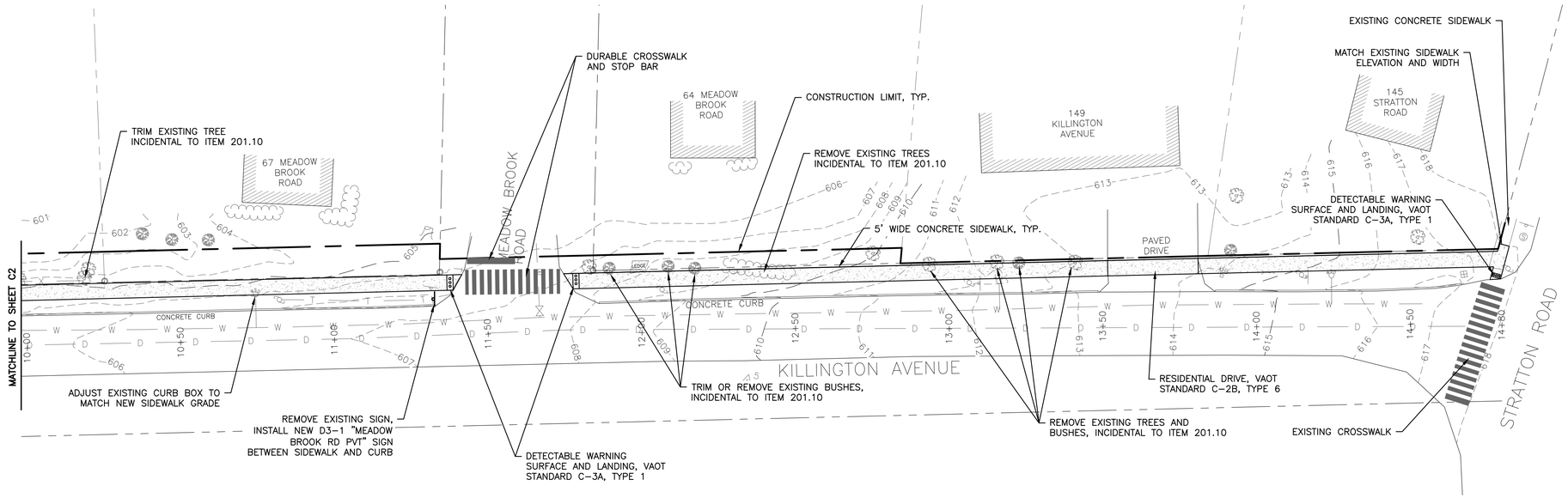
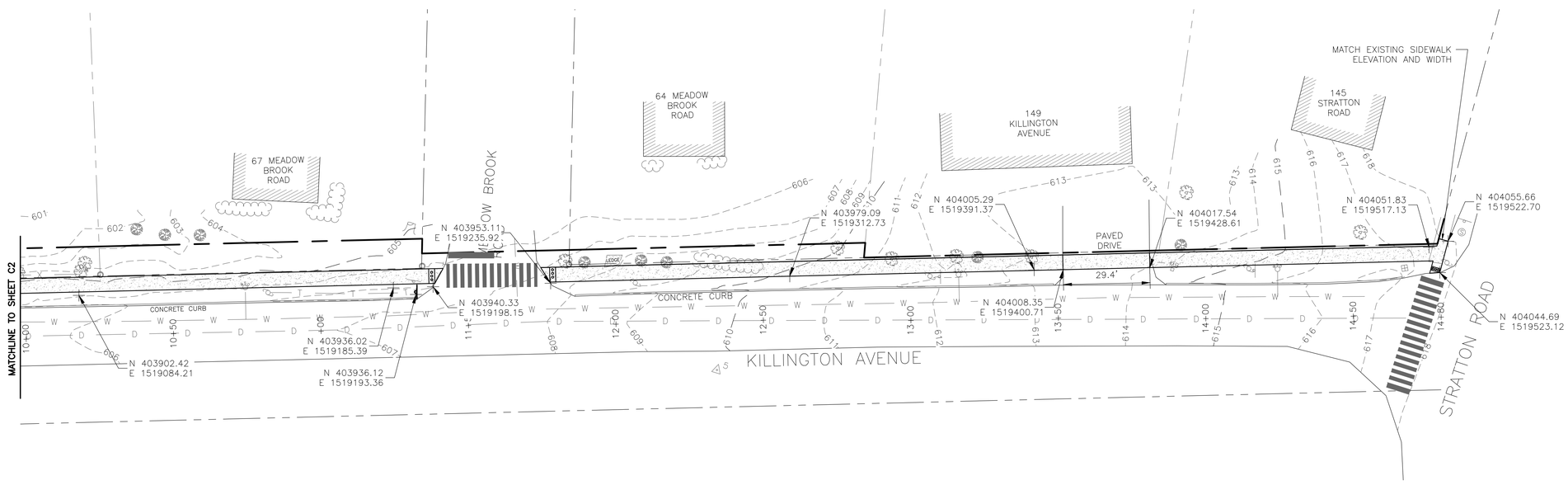


KILLINGTON AVENUE SITE PLAN - STA 10+00 TO 14+85

SCALE: 1"=20'



KILLINGTON AVENUE LAYOUT PLAN - STA 10+00 TO 14+85

SCALE: 1"=20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

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KILLINGTON AVENUE SIDEWALK EXTENSION
RUTLAND CITY TAP TA15(5)

SITE PLAN & LAYOUT PLAN
STA 10+00 TO 14+85

RUTLAND, VERMONT

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C3

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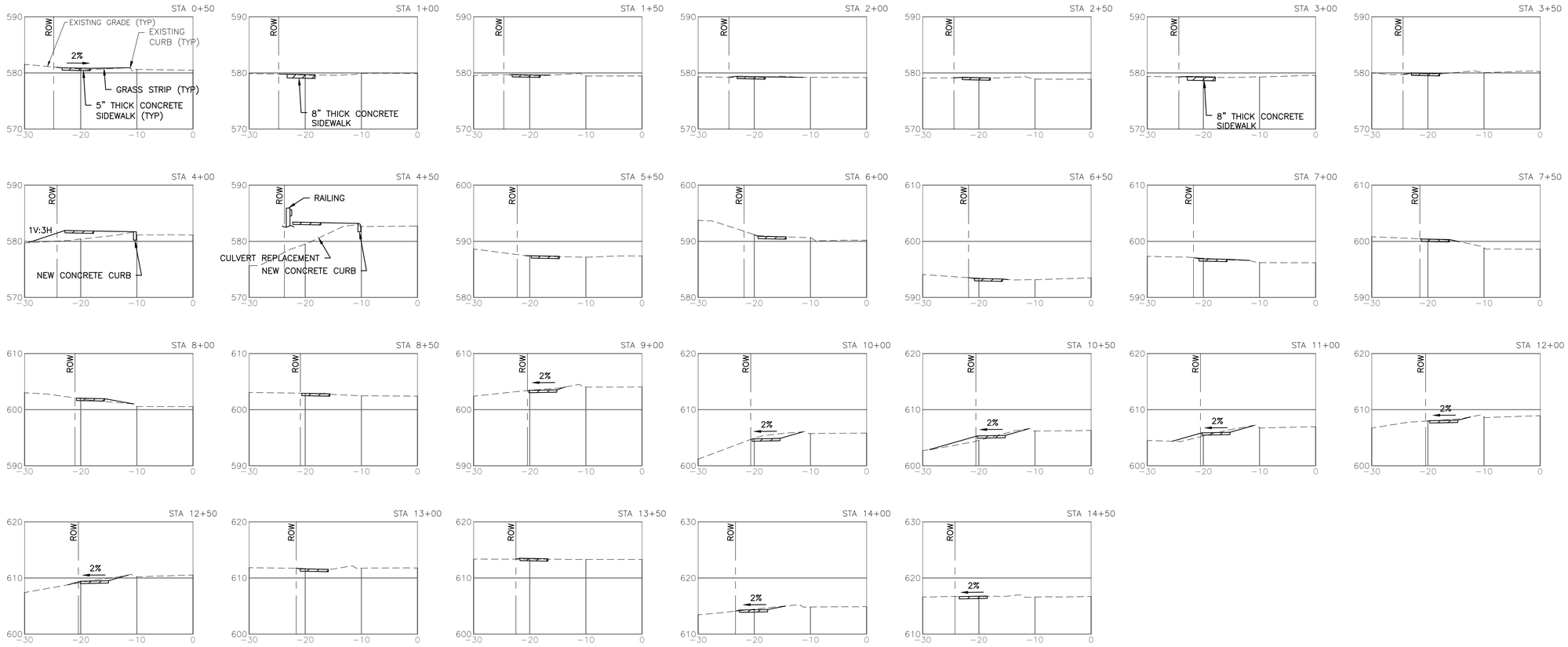

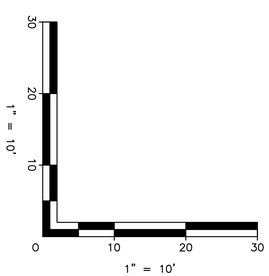

NOTES:

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3. REFER TO SHEET C5 FOR SIDEWALK DETAILS

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KILLINGTON AVENUE SIDEWALK EXTENSION
RUTLAND CITY TAP TA15(5)

SIDEWALK CROSS SECTIONS

RUTLAND, VERMONT

Project #	7150033
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C4

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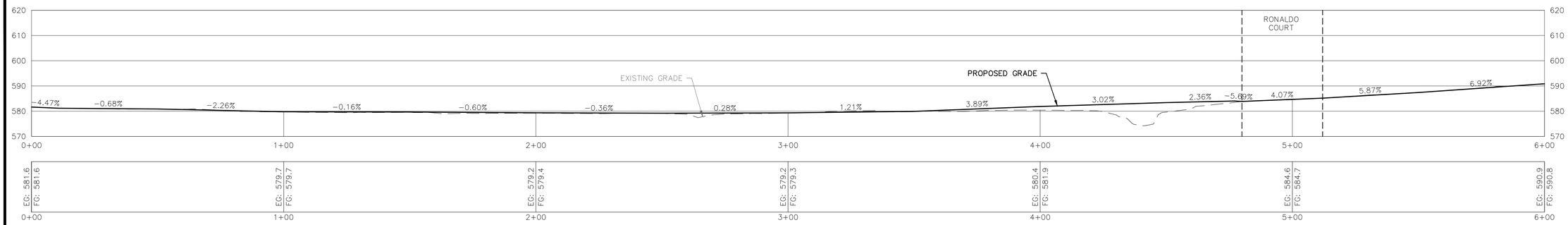
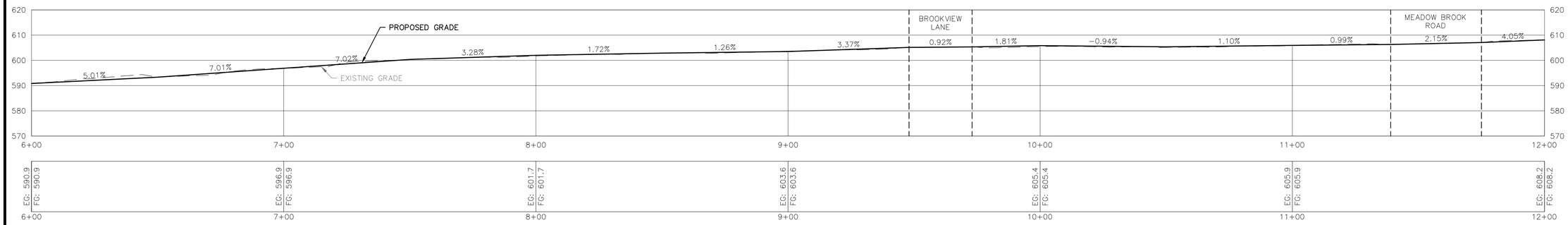
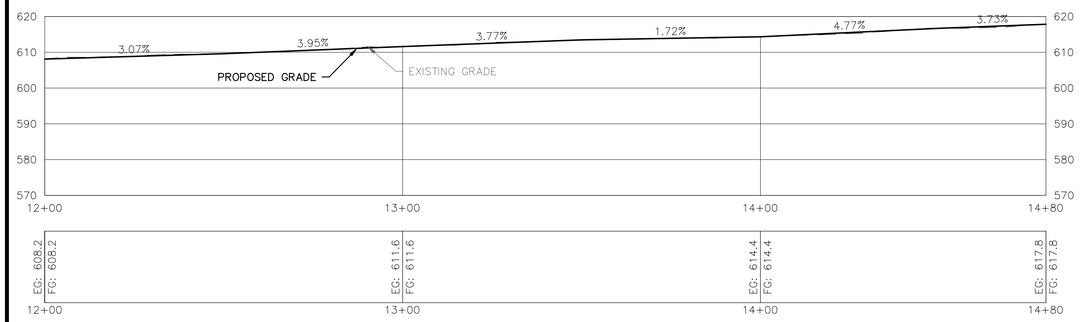


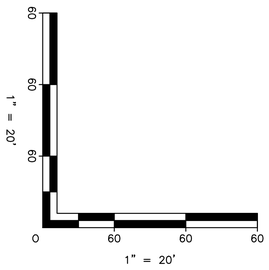
SIDEWALK PROFILE - STA 0+00 TO 6+00
SCALE: 1"=20'



SIDEWALK PROFILE - STA 6+00 TO 12+00
SCALE: 1"=20'



SIDEWALK PROFILE - STA 12+00 TO 14+80
SCALE: 1"=20'



NOTES:

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2. REFER TO SHEETS C1 THROUGH C3 FOR SIDEWALK SITE PLANS AND LAYOUT PLANS.
3. REFER TO SHEET C5 FOR SIDEWALK DETAILS

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KILLINGTON AVENUE SIDEWALK EXTENSION
RUTLAND CITY TAP TA15(5)

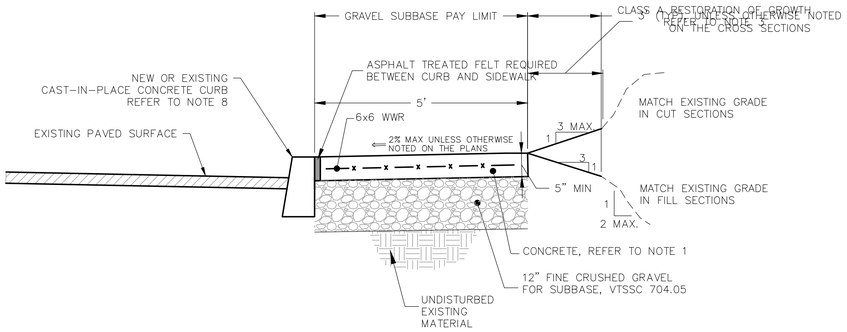
SIDEWALK PROFILE

RUTLAND, VERMONT

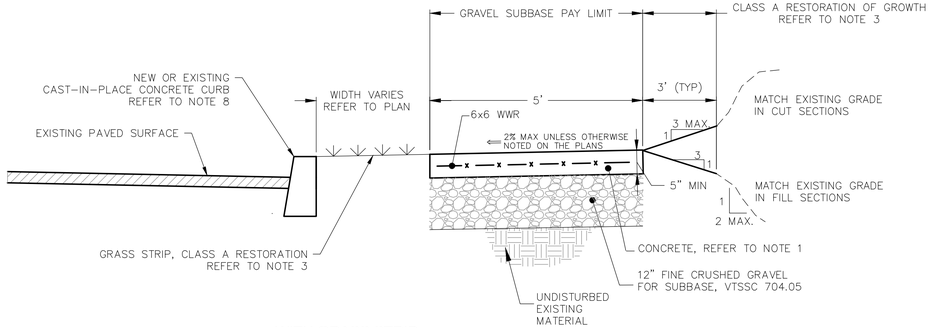
Project #	7150033
Project Mgr.	C.M.HASKINS
Design by	C.W.FLOWER
Drawn by	C.W.FLOWER
Reviewed by	C.M.HASKINS
Approved by	C.M.HASKINS
Date	JUNE 2, 2016
Scale	AS SHOWN

C5

FILE: M:\CADD Files\Rutland City VT\Killington Ave\7150017 - C1-CK.dwg Jun 07, 2016 - 12:07pm



WITHOUT GRASS STRIP



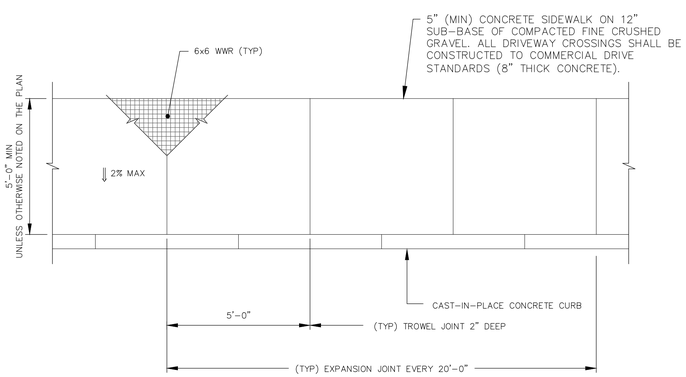
WITH GRASS STRIP

CONCRETE CURB AND CONCRETE SIDEWALK DETAILS

NOT TO SCALE

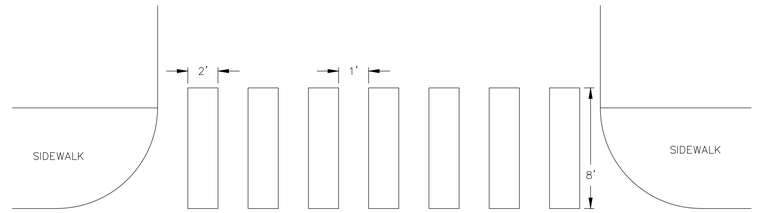
NOTES:

1. REFER TO SPECIAL PROVISION 900.675 PORTLAND CEMENT CONCRETE SIDEWALKS AND SPECIAL PROVISION 900.640 CAST-IN-PLACE CONCRETE CURB.
2. TWO SECTIONS OF FINE CRUSHED GRAVEL ARE ACCEPTABLE FOR INITIAL CURB INSTALLATION AND LEVELING PRIOR TO THE CONCRETE PROVIDED THE TWO SECTIONS OF GRAVEL DO NOT EXCEED 10% OF THE CURB LENGTH.
3. RESTORE ALL DISTURBED GRASS AREAS TO CLASS A RESTORATION, PER SPECIAL PROVISION 900.645 CLASS A RESTORATION OF GROWTH.
4. SAW CUTTING IS INCIDENTAL TO PAY ITEM 406.25.
5. CLEAN SURFACES AND TACK COAT EDGES OF EXISTING PAVEMENT PRIOR TO PLACING NEW PAVEMENT. THIS WORK SHALL BE INCIDENTAL TO ITEM 406.25.
6. ALL SIDEWALK SHALL BE 5 FEET WIDE, UNLESS OTHERWISE NOTED ON THE PLANS.
7. IN ALL AREAS WHERE NEW SIDEWALK ABUTS EXISTING SIDEWALK, THE NEW SIDEWALK SHALL BE PINNED TO THE EXISTING SIDEWALK. REFER TO JOINT DETAIL A ON THIS SHEET. THIS WORK SHALL BE INCIDENTAL TO SPECIAL PROVISION 900.675 PORTLAND CEMENT CONCRETE SIDEWALKS.
8. EXISTING CAST-IN-PLACE CURB IS INSTALLED DIRECTLY ON THE PAVEMENT AND DOES NOT EXTEND BELOW THE PAVEMENT. NEW CAST-IN-PLACE CURB SHALL MATCH EXISTING OR VAOT STANDARD C-10.



PLAN - TYPICAL CONCRETE WALK DETAIL

NOT TO SCALE

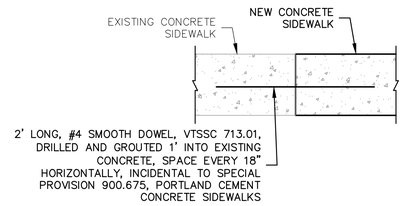


BLOCK PATTERN CROSSWALK

NOT TO SCALE

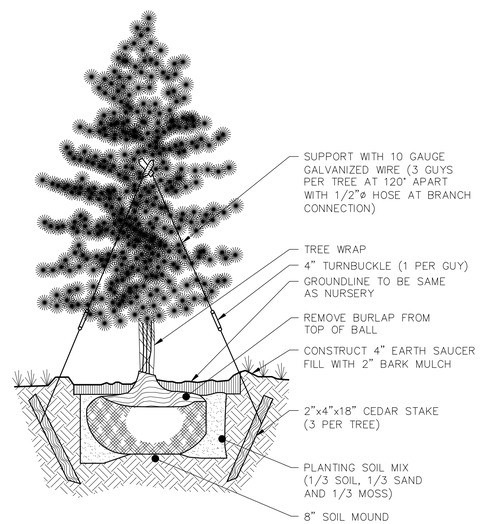
NOTES:

1. THE BAR SPACING SHOULD AVOID WHEEL PATHS.
2. CROSSWALK SHOULD BE PLACED AS CLOSE TO PERPENDICULAR (TO THE ROAD) AS POSSIBLE, UNLESS OTHERWISE SHOWN ON THE PLANS.
3. MARK LIGHT STRING LINE ON PAVEMENT ACROSS ROADWAY (CURB TO CURB).
4. ESTABLISH THE CENTER LINE OF THE ROADWAY (DOUBLE YELLOW LINE OR LANE LINE).
5. BLOCKS SHALL BE PARALLEL TO THE CENTER LINE (DOUBLE YELLOW LINE OR LANE LINE).
6. PAINTED BLOCKS ARE 24 INCHES WIDE, WHITE DURABLE MARKING.



JOINT DETAIL A

NOT TO SCALE



TREE PLANTING DETAIL

NOT TO SCALE

NOTES:

1. DETAIL SHOWN WITH CONIFEROUS TREE; HOWEVER IT APPLIES TO BOTH CONIFEROUS AND DECIDUOUS TREES.
2. TREE SPECIES SHALL BE 2-2.5" CALIPER AMELENCHIER LAEVIS "CUMULUS" (ALLEGHENY SERVICEBERRY).

PRELIMINARY DESIGN
NOT FOR CONSTRUCTION

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KILLINGTON AVENUE SIDEWALK EXTENSION
RUTLAND CITY TAP TA15(5)

SIDEWALK TYPICAL DETAILS

RUTLAND, VERMONT

Project #	7150033
Project Mgr.	C.M.HASKINS
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C6

SHEET 7 OF 7

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