Wannalancit Mills
650 Suffolk St., Suite 200
Lowell, MA 01854

978.970.5600 PHONE
978.453.1995 FAX

www.trcsolutions.com

April 27, 2016

Vermont Transportation Agency
Attention: Craig Keller
One National Life Drive
Montpelier, VT 05633-5001
(802) 828-2485

Subject: Vermont Green Line Project – Request for Section 1111 Permit Letter of Intent

Dear Mr. Keller:

On behalf of Vermont Green Line Devco, LLC, TRC submits the enclosed material to depict the design for the portion of the Vermont Green Line Project under the jurisdiction of the Vermont Agency of Transportation (VTrans). The Project Team appreciates the feedback and collaboration provided by VTrans staff as we develop a transmission line route that minimizes potential impact to public stakeholders, while simultaneously minimizing project risk.

The Project Team is actively working on a petition to the State of Vermont Public Service Board for a Certificate of Public Good, pursuant to § 30 V.S.A. 248 (Section 248), to construct and operate a proposed 400 megawatt (MW) High Voltage Direct Current (HVDC) electric transmission line between the existing New York Power Authority (NYPA) Plattsburgh Substation in Beekmantown, New York, and the Vermont Electric Power Company (VELCO) New Haven Substation in New Haven, Vermont. As part of the Section 248 petition package, we would like to include a Letter of Intent from VTrans for the issuance of a State Highway Rights-of-Way; Section 1111 Permit.

Enclosed, please find the following:

- Alignment sheets for the transmission line route under VTrans jurisdiction
- Typical construction details
- Route 17 access road entrance design
- Table of culvert crossings and contingency alternatives

The Section 1111 Permit will facilitate construction along Vermont State Route 7 for approximately 6.5 miles in the Towns of Ferrisburgh, Waltham and New Haven, Vermont, and an HVDC cable crossing and a new access road driveway entrance for a proposed converter station on State Route 17 in New Haven. VTrans railroad right-of-way will also be crossed in three locations: 1) along Tuppers Crossing (a town road) in the Town of Ferrisburgh, 2) at Route 7 in the Town of Ferrisburgh, north of Monkton Road, and 3) at New Haven Junction west of Route 7. All right-of-way crossings will be

covered under the approved State Highway Access and Work Permit and the approved Railroad Lands and Crossing Permit.

If you have any questions regarding the project or the details and request provided herein, please contact me at (978) 935-1433 or by email at slundin@trcsolutions.com, or Bryan Sanderson at (781) 683-0709 or by email at bsanderson@anbaric.com.

Sincerely,

B. Scott Lundin
Senior Project Manager

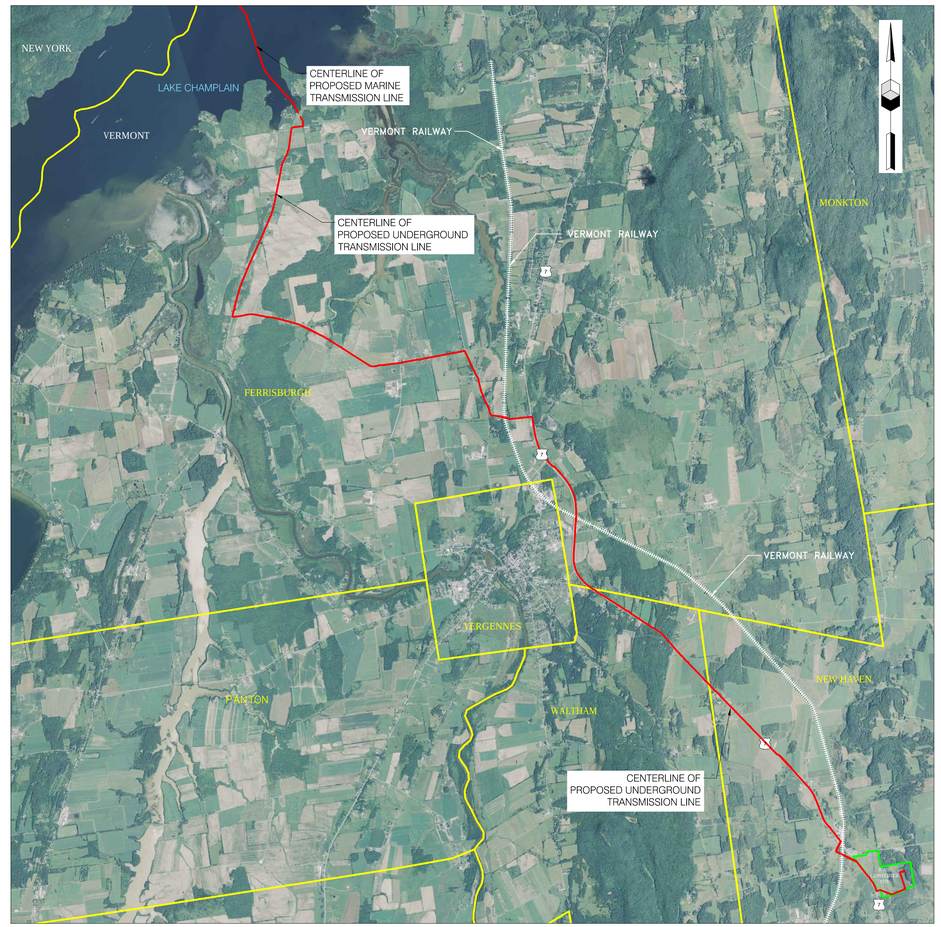
CC:

Bryan Sanderson, Vermont Green Line Devco, LLC (Anbaric)
Joe Rossignoli, Vermont Green Line Devco, LLC (National Grid)
Leslie Cadwell, Legal Counselors & Advocates, PLC

ENC:

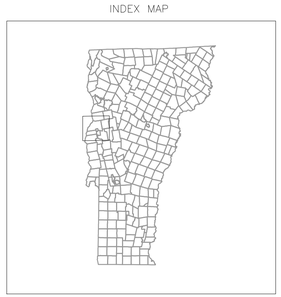
- Alignment Sheets for the transmission line route under VTrans jurisdiction
- Typical Construction Details
- Route 17 Access Road Entrance Design
- Table of Culvert Crossings and Contingency Alternatives

VERMONT GREEN LINE



LOCUS MAP
1" = 2000

INDEX MAP



ISSUED FOR PERMITTING
DATE: 4/19/2016

STATE OF VERMONT
NORMAN R GOSSELIN
NO. 0180117534
CIVIL
LICENSED
PROFESSIONAL ENGINEER

REVISION					
No.	DATE	DESCRIPTION	DSN	CHK	APP
A	4/19/16	ISSUED FOR PERMITTING REVIEW	CMS	REH	NRG

Cornerstone Energy Services

PSC

TRC

DRAWN	CMS	DATE	4/19/2016
CHECKED	REH	DATE	4/19/2016

SCALE: 1" = 2,000'
PROJ. NO.: 15077.02
File No.: VTGL_Vermont_Overview.dwg

VERMONT GREEN LINE
COVER SHEET
FERRISBURGH, WALTHAM
NEW HAVEN
ADDISON COUNTY, VERMONT

APPROVED BY Norman R Gosselin
DATE: 04/19/2016

VTGL-COVER SHEET

SHEET 1 OF 5

REVISION					
No.	DATE	DESCRIPTION	DSN	CHK	APP
A	4/19/16	ISSUED FOR PERMITTING REVIEW	CMS	REH	NRG

SCALE
0 2000 4000

Cornerstone Energy Services

PSC

TRC

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CHECKED	REH	DATE	4/19/2016

SCALE: 1" = 2,000'
PROJ. NO.: 150077.02
File No.: VTGL_Vermont_Overview.dwg

VERMONT GREEN LINE
OVERVIEW PLAN
FERRISBURGH, WALTHAM
NEW HAVEN
ADDISON COUNTY, VERMONT

APPROVED BY
DATE:
VTGL-OVERVIEW VTRANS

SHEET 2 OF 5

A. GENERAL NOTES

1. SURVEY AND GEO-REFERENCED DATA, COORDINATES AND ELEVATIONS REFERENCE UTM ZONE 18, NAD 83, US SURVEY FEET.
2. PROPERTY BOUNDARIES DEPICTED WITHIN THIS DRAWING PACKAGE ARE BASED ON PUBLICLY AVAILABLE INFORMATION SUCH AS: STATE AND MUNICIPAL GIS DATA, TAX MAPS, VTRANS RIGHT-OF-WAY MAPS, ETC.. THE BOUNDARIES SHOWN DO NOT REPRESENT THE RESULTS OF A BOUNDARY SURVEY AND CANNOT BE CONSTRUED AS SUCH.
3. THE PURPOSE OF THIS DRAWING PACKAGE IS TO CONVEY TO JURISDICTIONAL AGENCIES AS WELL AS THE GENERAL PUBLIC THE PRELIMINARY ROUTING, DESIGN AND CONSTRUCTION INFORMATION NECESSARY FOR REVIEW AND PERMITTING.
4. AS REQUIRED, BASED UPON JURISDICTIONAL AND PUBLIC INPUT, INFORMATION CONTAINED WITHIN THIS DRAWING PACKAGE MAY BE REVISED TO ADDRESS SPECIFIC AREAS OF CONCERN.
5. THIS PACKAGE DOES NOT CONSTITUTE A 100% DESIGN PACKAGE. FURTHER DESIGN WILL BE COMPLETED DURING THE PERMITTING PROCESS AND WILL BE BASED UPON INPUT RECEIVED FROM ALL JURISDICTIONAL AGENCIES.
6. CONSTRUCTION OF THIS PROJECT SHALL NOT COMMENCE UNTIL ALL REGULATORY PERMITS HAVE BEEN RECEIVED AND OWNER'S APPROVAL PROVIDED.
7. IN THE INSTANCE THAT INFORMATION CONTAINED WITHIN THIS DRAWING PACKAGE OR PROJECT SPECIFICATIONS IS IN DIRECT CONFLICT WITH THE PERMIT AND REGULATORY REQUIREMENTS, THE PERMIT AND REGULATORY REQUIREMENTS SHALL TAKE PRECEDENCE.
8. IN ACCORDANCE WITH STATE OF VERMONT STATUTES, ALL PROJECT DRAWINGS, SPECIFICATIONS AND DESIGN DOCUMENTS SHALL BE COMPLETED UNDER THE PURVIEW OF PROFESSIONAL ENGINEERS LICENSED TO PRACTICE IN THE STATE OF VERMONT. ALL DRAWINGS, SPECIFICATIONS AND DESIGN DOCUMENTS SUBMITTED TO JURISDICTIONAL AGENCIES, SHALL BEAR THE INTENT OF SAID DRAWINGS, SPECIFICATIONS AND DESIGN DOCUMENTS; "FOR PERMITTING", "CONCEPTUAL", "NOT FOR CONSTRUCTION", ETC., AND SHALL BEAR THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER IN RESPONSIBLE CHARGE FOR DRAWINGS, SPECIFICATIONS AND DESIGN DOCUMENTS.
9. DETAILS AND CONSTRUCTION METHODS IDENTIFIED IN THE PACKAGE ARE GENERAL IN NATURE AND MAY BE MODIFIED BASED UPON CONDITIONS ENCOUNTERED DURING CONSTRUCTION.
10. ALL UTILITIES IDENTIFIED WITHIN THIS DRAWING PACKAGE ARE BASED UPON INFORMATION RECEIVED FROM COOPERATING UTILITIES, PUBLICLY AVAILABLE INFORMATION AS WELL AS FIELD EVIDENCE ENCOUNTERED DURING SURVEY ACTIVITIES. THE PROJECT WILL ATTEMPT TO PROTECT ALL UTILITIES WITHIN THE PROPOSED CONSTRUCTION CORRIDOR TO THE BEST EXTENT POSSIBLE.
11. ANY APPURTENANCES (MAILBOXES, SIGNS, ETC.) DAMAGED WITHIN THE CONSTRUCTION WORK ZONE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR.
12. ALL DISTURBED AREAS WILL BE RESTORED TO EXISTING CONDITIONS AFTER CONSTRUCTION IS COMPLETE.

B: SAFETY NOTES

1. ALL CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT SHALL BE CONDUCTED IN A MANNER TO THE PROTECT THE SAFETY OF THE WORKERS AND THE GENERAL PUBLIC BY ADHERING TO ALL PROJECT, LOCAL, STATE AND FEDERAL SAFETY REQUIREMENTS.
2. THE CONTRACTOR WILL BE RESPONSIBLE TO CONTACT VERMONT DIG SAFE (811) PRIOR TO CONDUCTING ANY EXCAVATION ACTIVITIES ASSOCIATED WITH THIS PROJECT.
3. WHERE APPLICABLE ALL LANE CLOSURES SHALL ADHERE TO THE PROJECT TRAFFIC MANAGEMENT PLAN.
4. CONTRACTOR WILL BE RESPONSIBLE FOR ADHERING TO SPECIFIC AGENCY REQUIREMENTS REGARDING CLEARANCE FORM EXISTING UTILITIES WHERE APPLICABLE.

C. ENVIRONMENTAL NOTES

1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS IDENTIFIED IN THESE DRAWINGS, PROJECT SPECIFICATION AND APPROVED PERMITS.
2. WETLANDS AND STREAMS DEPICTED HEREIN ARE BASED UPON FIELD OBSERVATIONS CONDUCTED BY TRC.

VTGL SHEET INDEX

VTGL-COVER SHEET - SHEET 1 OF 5
VTGL-OVERVIEW - SHEET 2 OF 5
VTGL-SHEET INDEX & GENERAL NOTES - SHEET 3 OF 5
VTGL-DETAIL SHEET 4 OF 5
VTGL-DETAIL SHEET 5 OF 5

HVDC-VT-L-012 PLAN & PROFILE-OVERLAND ROUTE-STA. 2771+31 TO 2798+82
HVDC-VT-L-013 PLAN & PROFILE-OVERLAND ROUTE-STA. 2798+82 TO 2826+33
HVDC-VT-L-014 PLAN & PROFILE-OVERLAND ROUTE-STA. 2826+33 TO 2853+84
HVDC-VT-L-015 PLAN & PROFILE-OVERLAND ROUTE-STA. 2853+84 TO 2881+35
HVDC-VT-L-016 PLAN & PROFILE-OVERLAND ROUTE-STA. 2881+35 TO 2908+86
HVDC-VT-L-017 PLAN & PROFILE-OVERLAND ROUTE-STA. 2908+86 TO 2936+37
HVDC-VT-L-018 PLAN & PROFILE-OVERLAND ROUTE-STA. 2936+37 TO 2963+88
HVDC-VT-L-019 PLAN & PROFILE-OVERLAND ROUTE-STA. 2963+88 TO 2991+39
HVDC-VT-L-020 PLAN & PROFILE-OVERLAND ROUTE-STA. 2991+39 TO 3018+90
HVDC-VT-L-021 PLAN & PROFILE-OVERLAND ROUTE-STA. 3018+90 TO 3046+41
HVDC-VT-L-022 PLAN & PROFILE-OVERLAND ROUTE-STA. 3046+41 TO 3073+92
HVDC-VT-L-023 PLAN & PROFILE-OVERLAND ROUTE-STA. 3073+92 TO 3101+43
HVDC-VT-L-024 PLAN & PROFILE-OVERLAND ROUTE-STA. 3101+43 TO 3128+94
HVDC-VT-L-025 PLAN & PROFILE-OVERLAND ROUTE-STA. 3128+94 TO 3156+45

LEGEND:

EXISTING:		PROPOSED:
	EDGE OF PAVEMENT	
	EDGE OF GRAVEL	
	TREE LINE	
x	FENCE LINE	x
	CL OF PROPOSED TRANSMISSION LINE	
	APPROXIMATE PROPERTY LINE	
	ABUTTER PROPERTY LINE	
OHW	OVERHEAD ELECTRICAL WIRE	
	MAJOR CONTOURS	
	MINOR CONTOURS	
	ROAD RIGHT-OF-WAY LINE	
W W	WATER LINE (UTILITY)	
	STREAM	
	DRIVEWAY (GRAVEL)	
	DRIVEWAY (BIT.)	
	CONCRETE PAD	
	WETLAND	
	POND	
	RIVER	
	CULVERT	
	BUILDING	
	GUARD RAIL	
	EASEMENT	
	TEMPORARY EASEMENT	
	TOWN LINE	
UE	UNDERGROUND ELECTRICAL	
	RETAINING WALL	
2189	LINE LIST NUMBER	
	CONCRETE BOUND	
	LIGHT POST	
	IRON ROD	
N/F	NOW OR FORMERLY	
IP(F)	IRON PIN FOUND	
CB(F)	CONCRETE BOUND FOUND	
	UTILITY POLE	
	ROAD SIGN	
	GUY ANCHOR	
	CATCH BASIN	
	MAILBOX	
	FLAGPOLE	
	TREE	
	POST	
	MILE POST	MP 45.0

STATE OF VERMONT
NORMAN R GOSSELIN
NO. C180117534
CIVIL
LICENSED
PROFESSIONAL ENGINEER

Norman R Gosselin
04/20/2016

ISSUED FOR PERMITTING
DATE: 4/20/2016

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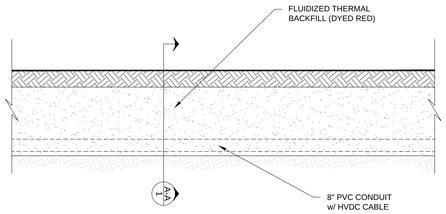
Cornerstone Energy Services
PSC
TRC

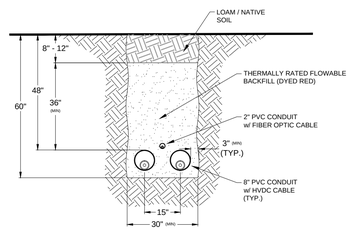
DRAWN	JEE	DATE	4/20/2016
CHECKED	REH	DATE	4/20/2016
SCALE: N/A			
PROJ. NO.: 15077.05			
File No.: SHEET INDEX AND GENERAL NOTES.dwg			

VERMONT GREEN LINE
HDVC SHEET INDEX & GENERAL NOTES
FERRISBURG, WALTHAM,
NEW HAVEN
ADDISON COUNTY, VERMONT

APPROVED BY
DATE:
INDEX & NOTES (VTRANS)



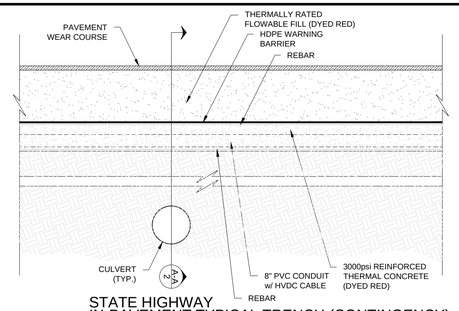
OFFROAD TYPICAL TRENCH
SCALE: 1:50



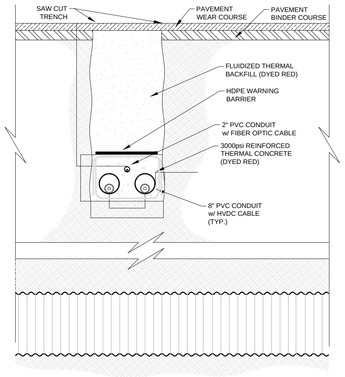
NOTE: ALL DIMENSIONS ARE APPROXIMATE

OFFROAD TYPICAL SECTION
SCALE: 1:30

A-A
1

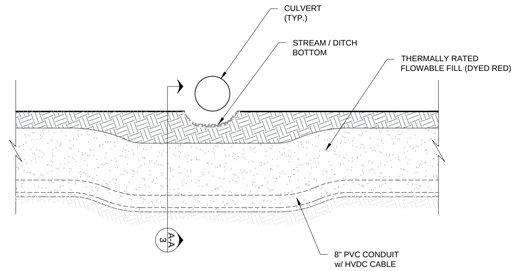


STATE HIGHWAY IN-PAVEMENT TYPICAL TRENCH (CONTINGENCY)
SCALE: 1:50

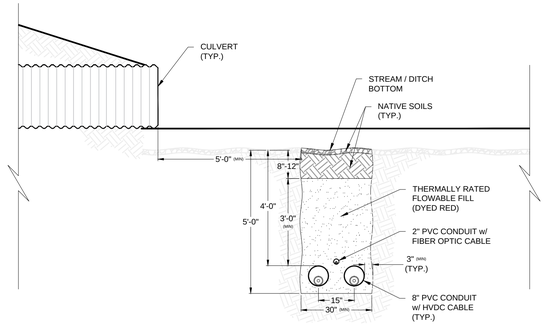


STATE HIGHWAY IN-PAVEMENT SECTION (CONTINGENCY)
SCALE: 1:30

A-A
2

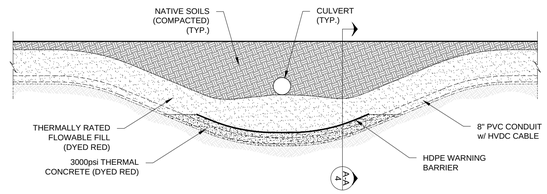


STREAM / DITCH CROSSING
SCALE: 1:50

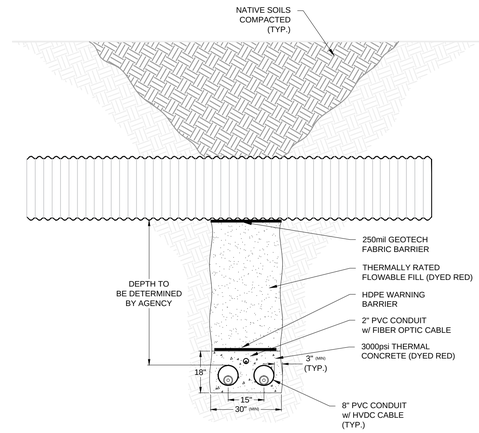


STREAM / DITCH CROSSING SECTION
SCALE: 1:30

A-A
3

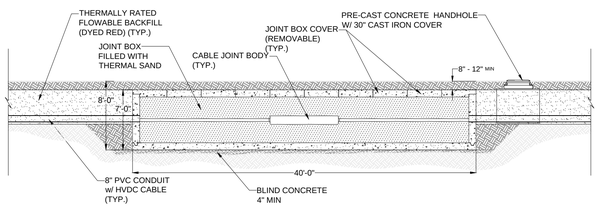


CULVERT CROSSING
SCALE: 1:50

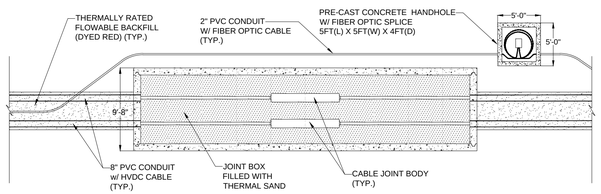


CULVERT CROSSING (UNDER) SECTION
SCALE: 1:30

A-A
4



TYPICAL JOINT BAY PROFILE VIEW
SCALE: 1:100



NOTE: ALL DIMENSIONS ARE APPROXIMATE

TYPICAL JOINT BAY PLAN VIEW
SCALE: 1:100

ISSUED FOR PERMITTING
DATE: 4/20/2016

STATE OF VERMONT
NORMAN R. GOSSELIN
NO. 0180117534
CIVIL
LICENSED
PROFESSIONAL ENGINEER

REVISION

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Cornerstone Energy Services

PSC

TRC

DRAWN	DML	DATE	4/20/2016
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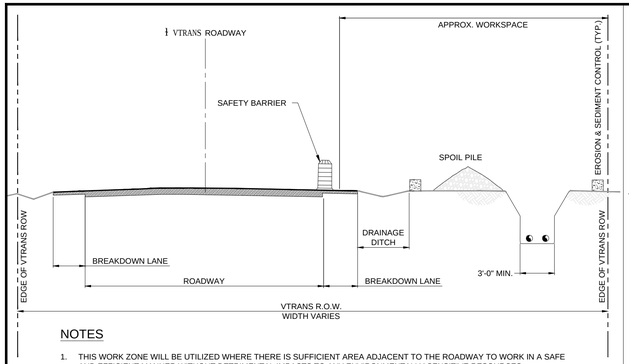
SCALE: AS NOTED
PROJ. NO.: 15077.05
File No.: VTGL_Detail Sheets_VTRANS.dwg

VERMONT GREEN LINE
HVDC CABLE TRENCH DETAILS
FERRISBURGH, WALTHAM
NEW HAVEN
ADDISON COUNTY, VERMONT

APPROVED BY
DATE:

VTGL-DETAIL SHEET 4

SHEET 4 OF 5

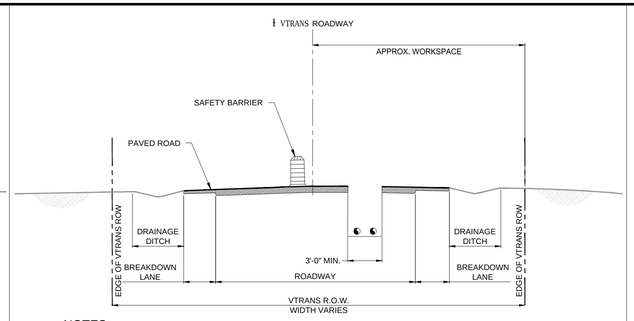


NOTES

1. THIS WORK ZONE WILL BE UTILIZED WHERE THERE IS SUFFICIENT AREA ADJACENT TO THE ROADWAY TO WORK IN A SAFE AND EFFICIENT MANNER WITHOUT DETRIMENTAL IMPACTS TO ANY ENVIRONMENTALLY SENSITIVE RESOURCES.
2. TWO-WAY TRAFFIC WILL BE MAINTAINED; HOWEVER, PROPER SIGNAGE AND SAFETY BARRIES WILL BE INSTALLED ALONG THE EDGE OF THE ROADWAY PER THE TRAFFIC MANAGEMENT PLAN.
3. VTRANS ROADWAY AND RIGHT-OF-WAY WIDTH VARIES.
4. ALL EROSION & SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED PER THE APPROVED PERMITS AND PROJECT SPECIFICATIONS.
5. ALL AREAS DISTURBED BY THE CABLE INSTALLATION CONSTRUCTION SHALL BE RESTORED PER ALL PERMITTING REQUIREMENTS AND PROJECT SPECIFICATIONS.
6. REFER TO GENERAL NOTES & PROJECT SPECIFICATIONS FOR FURTHER INFORMATION REGARDING THIS CONSTRUCTION METHOD.

STATE HIGHWAY CONSTRUCTION METHOD

SCALE: N.T.S.

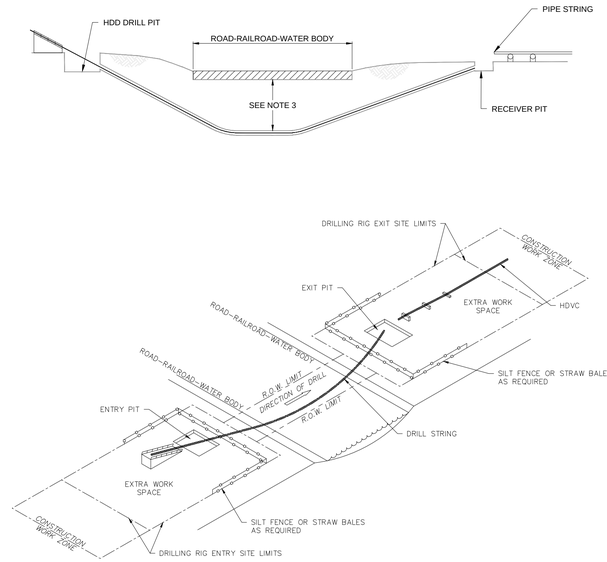


NOTES

1. THIS WORK ZONE WILL BE UTILIZED IN AREAS WHERE WORK ADJACENT TO THE ROADWAY WOULD BE DETRIMENTAL TO SURROUNDING AREAS.
2. ONE-WAY TRAFFIC WILL BE MAINTAINED PER THE TRAFFIC MANAGEMENT PLAN.
3. VTRANS ROADWAY AND RIGHT-OF-WAY WIDTH VARIES.
4. TRENCHING SPOILS MAY BE PLACED ADJACENT TO THE ROADWAY WITHING THE RIGHT-OF-WAY PROVIDED SPACING PERMITS SUCH.
5. ALL EROSION & SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED PER THE APPROVED PERMITS AND CONSTRUCTION SPECIFICATIONS.
6. REFER TO GENERAL NOTES & CONSTRUCTION SPECIFICATIONS FOR FURTHER INFORMATION REGARDING THIS CONSTRUCTION METHOD.

STATE HIGHWAY IN-PAVEMENT CONSTRUCTION METHOD (CONTINGENCY)

SCALE: N.T.S.

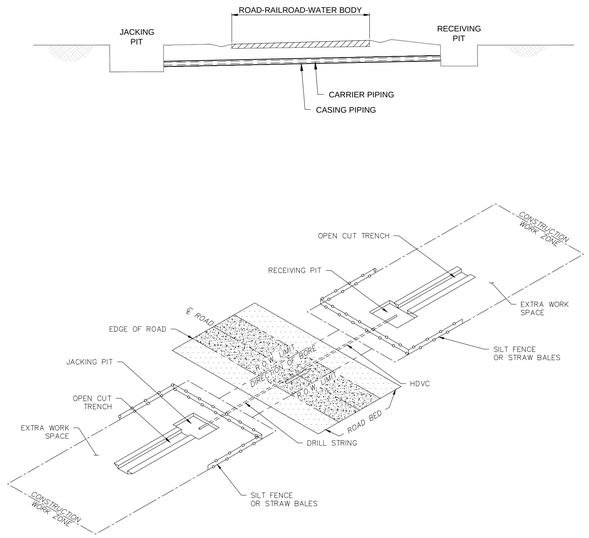


NOTES

1. REFER TO THE PLAN AND PROFILE DRAWINGS FOR DIMENSIONS OF HDD ENTRY AND EXIT WORK AREAS.
2. DRILL PITS MAY NOT BE REQUIRED PROVIDED THAT THE CONTRACTOR PROVIDES APPROVED METHODS OF CONTAINING DRILLING MUD.
3. ALL HORIZONTAL DIRECTIONAL DRILLS SHALL NOT PASS LESS THAN 15' BELOW STREAMS. MINIMUM DEPTH BENEATH ROADS AND RAILROAD SHALL BE PER APPROVED PERMITS.
4. ALL HORIZONTAL DIRECTIONAL DRILL SHALL USE TWO BORE HOLES WITH A SPACING OF 10-15 FEET. LESSER SPACING MAY BE POSSIBLE WITH PRIOR APPROVAL.
5. ALL EROSION & SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED PER THE APPROVED PERMITS AND CONSTRUCTION SPECIFICATIONS.
6. REFER TO GENERAL NOTES & CONSTRUCTION SPECIFICATIONS FOR FURTHER INFORMATION REGARDING THIS CONSTRUCTION METHOD.

HDD CONSTRUCTION METHOD

SCALE: N.T.S.

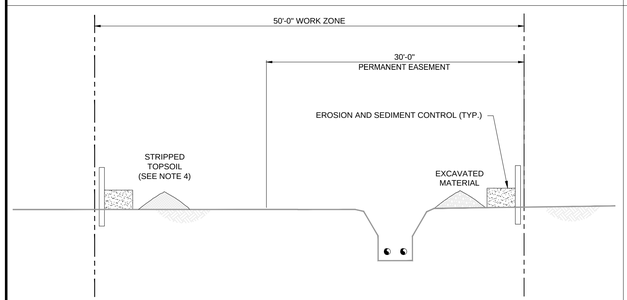


NOTES

1. THE JACK & BORE CONSTRUCTION METHOD MAY BE USED IN LIEU OF HORIZONTAL DIRECTIONAL DRILLING FOR SHORTER CROSSINGS.
2. REFER TO THE PLAN AND PROFILE DRAWING FOR DIMENSIONS OF THE JACKING AND RECEIVING PIT WORK AREAS.
3. DEPTH OF CASING PIPE SHALL BE IDENTIFIED IN THE SPECIFIC CROSSING PERMITS.
4. ALL JACK & BORES SHALL USE TWO BORE HOLES WITH A SPACING OF 5 -6 FEET. LESSER SPACING MAY BE POSSIBLE WITH PRIOR APPROVAL.
5. REFER TO GENERAL NOTES & CONSTRUCTION SPECIFICATIONS FOR FURTHER INFORMATION REGARDING THIS CONSTRUCTION METHOD.

JACK & BORE CONSTRUCTION METHOD

SCALE: N.T.S.

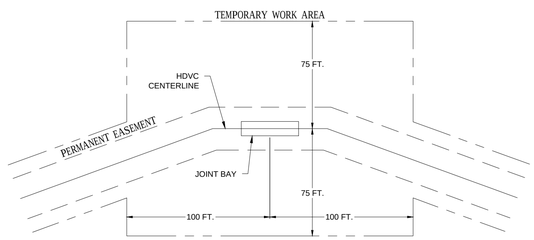


NOTES

1. THIS WORK ZONE WILL BE UTILIZED FOR CROSS-COUNTRY CABLE INSTALLATION THROUGH PRIVATE LANDS OUTSIDE OF EXISTING STATE AND MUNICIPAL ROAD RIGHT-OF-WAYS.
2. ALL EROSION & SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED PER THE APPROVED PERMITS AND PROJECT SPECIFICATIONS.
3. ALL AREAS DISTURBED BY THE CABLE INSTALLATION CONSTRUCTION SHALL BE RESTORED PER ALL PERMITTING REQUIREMENTS, LANDOWNER STIPULATIONS & PROJECT SPECIFICATIONS.
4. WHERE REQUIRED BY LANDOWNER STIPULATION OR PROJECT SPECIFICATIONS, TOPSOIL SHALL BE STRIPPED AND SEGRATED.
5. REFER TO GENERAL NOTES & PROJECT SPECIFICATIONS FOR FURTHER INFORMATION REGARDING THIS CONSTRUCTION METHOD.

CROSS-COUNTRY CONSTRUCTION METHOD

SCALE: N.T.S.



JOINT BAY WORKSPACE PLAN

SCALE: N.T.S.

ISSUED FOR PERMITTING

DATE: 4/20/2016

STATE OF VERMONT — NORMAN R GOSSELIN — NO. 0180117534 — CIVIL — LICENSED — PROFESSIONAL ENGINEER

No.	DATE	REVISION DESCRIPTION	DSN	CHK	APP
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Cornerstone Energy Services

PSC

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SCALE: AS NOTED

PROJ. NO.: 15077.05

File No.: VTGL_Detail Sheets_VTRANS.dwg

VERMONT GREEN LINE

HVDC CABLE TRENCH DETAILS

FERRISBURGH, WALTHAM

NEW HAVEN

ADDISON COUNTY, VERMONT

APPROVED BY: Norman R Gosselin

DATE: 04/20/2016

VTGL-DETAIL SHEET 5 (MUNICIPAL)

SHEET 5 OF 5

OWNER

LEGEND:

- PROPOSED TRANSMISSION LINE EASEMENT
- TEMPORARY EASEMENT
- FENCE LINE
- APPROXIMATE PROPERTY LINE
- MAJOR CONTOURS
- MINOR CONTOURS
- ROAD RIGHT-OF-WAY LINE
- WETLAND
- POND
- RIVER
- STREAM
- CULVERT
- WATER LINE (UTILITY)
- GUARD RAIL
- OVERHEAD ELECTRICAL WIRE
- UNDERGROUND ELECTRICAL
- LIGHT POST
- UTILITY POLE
- GUY ANCHOR
- LINE LIST NUMBER
- CONCRETE BOUND
- IRON ROD
- ROAD SIGN
- CATCH BASIN
- MAILBOX
- FLAGPOLE
- TREE
- POST
- MILE POST

METHOD OF CONSTRUCTION REFERENCE (SEE DETAILS)	MUNICIPAL ROAD	HDD	MUNICIPAL ROAD	JACK & BORE	STATE HIGHWAY

PROFILE

PROFILE: PLOT SIZE = 24x36
HORIZONTAL SCALE: 1"=50'

ISSUED FOR PERMITTING
DATE: 4/19/2016

GENERAL NOTES:

1. INFORMATION DEPICTED HEREON IS BASED ON SURVEY AND AERIAL MAPPING PERFORMED FOR THE PURPOSE OF ESTABLISHING A BASELINE FOR MAPPING.
2. UTILITIES DEPICTED HEREON ARE BASED UPON FIELD RECONNAISSANCE AS WELL AS RESEARCH WITH THE LOCAL UTILITY COMPANIES.

STATE OF VERMONT
NORMAN R. GOSSELIN
NO. 0180117534
CIVIL
LICENSED
PROFESSIONAL ENGINEER

Norman R. Gosselin
01/20/2016

VERMONT GREEN LINE

REVISION

No.	DATE	DESCRIPTION	DSN	CHK	APP
A	4/19/16	ISSUED FOR PERMITTING REVIEW	DML	REH	NRG

Cornerstone Energy Services
PSC
TRC

DRAWN	DML	DATE	4/19/2016
CHECKED	NRG	DATE	4/19/2016

SCALE: 1" = 100'
PROJ. NO.: 15077.05
File No.: VT_Alignment sheets.dwg

VERMONT GREEN LINE
VT OVERLAND ROUTE
PLAN AND PROFILE
STA. 2771+31 TO 2798+82
FERRISBURGH, VERMONT

APPROVED BY _____
DATE: _____

HVDC-VT-L-012

File: VT_Alignment sheets.dwg Apr 20, 2016 - 07:56am

OWNER

US FEET

UTM - NAD83 ZONE 18

LEGEND:

- PROPOSED TRANSMISSION LINE EASEMENT
- TEMPORARY EASEMENT
- FENCE LINE
- APPROXIMATE PROPERTY LINE
- MAJOR CONTOURS
- MINOR CONTOURS
- ROAD RIGHT-OF-WAY LINE
- WETLAND
- POND
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- LINE LIST NUMBER
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- IRON ROD
- ROAD SIGN
- CATCH BASIN
- MAILBOX
- FLAGPOLE
- TREE
- POST
- MILE POST

GRAPHIC SCALE

PLOT SIZE = 24x36

100 50 0 100 200 300

METHOD OF CONSTRUCTION REFERENCE (SEE DETAILS)

STATE HIGHWAY

PROFILE

PROFILE: PLOT SIZE = 24x36
HORIZONTAL SCALE: 1"=50'

ISSUED FOR PERMITTING
DATE: 4/19/2016

GENERAL NOTES:

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STATE OF VERMONT
NORMAN R GOSSELIN
NO. 0180117SM
CIVIL
LICENSED
PROFESSIONAL ENGINEER

Norman R Gosselin
01/20/2016

VERMONT GREEN LINE

REVISION

No.	DATE	DESCRIPTION	DSN	CHK	APP
A	4/19/16	ISSUED FOR PERMITTING REVIEW	DML	REH	NRG

Cornerstone Energy Services

PSC

TRC

DRAWN	DML	DATE	4/19/2016
CHECKED	NRG	DATE	4/19/2016

SCALE: 1" = 100'
PROJ. NO.: 15077.05
File No.: VT_Alignment sheets.dwg

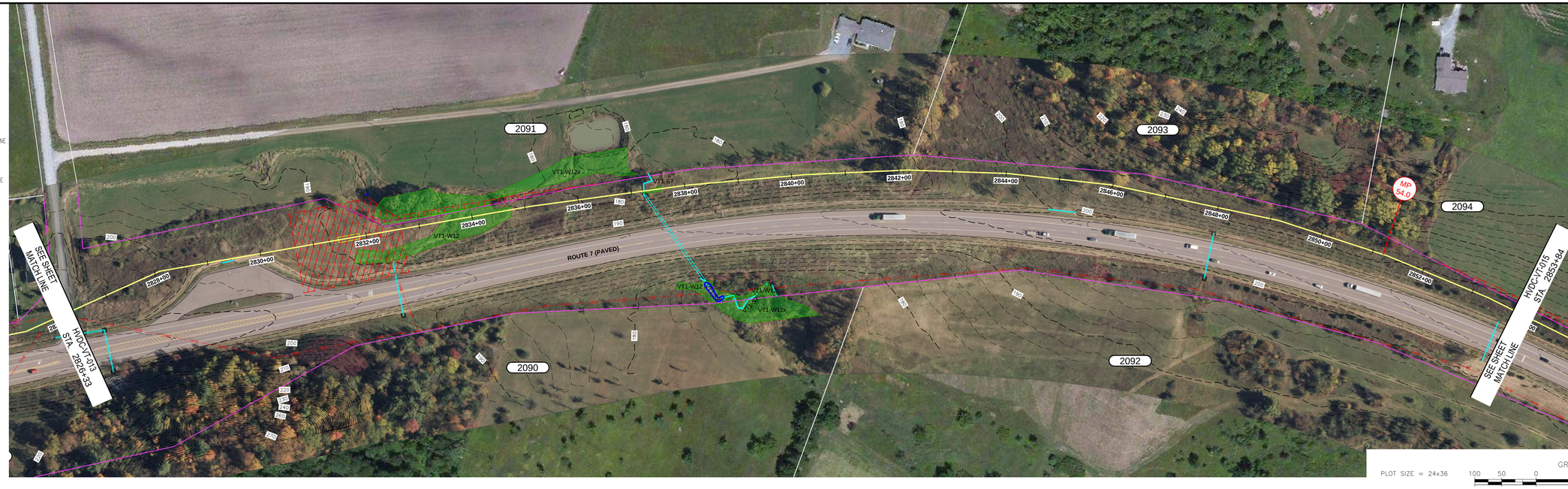
VERMONT GREEN LINE
VT OVERLAND ROUTE
PLAN AND PROFILE
STA. 2798+82 TO 2826+33
FERRISBURGH, VERMONT

APPROVED BY _____
DATE: _____

HVDC-VT-L-013

File: VT_Alignment sheets.dwg Apr 20, 2016 - 07:56am

OWNER



LEGEND:

- PROPOSED TRANSMISSION LINE
- EASEMENT
- TEMPORARY EASEMENT
- FENCE LINE
- APPROXIMATE PROPERTY LINE
- MAJOR CONTOURS
- MINOR CONTOURS
- ROAD RIGHT-OF-WAY LINE
- WETLAND
- POND
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- WATER LINE (UTILITY)
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- ROAD SIGN
- CATCH BASIN
- MAILBOX
- FLAGPOLE
- TREE
- POST
- MILE POST

METHOD OF CONSTRUCTION REFERENCE (SEE DETAILS)

STATE HIGHWAY

PROFILE

PROFILE: PLOT SIZE = 24x36
HORIZONTAL SCALE: 1"=50'

ISSUED FOR PERMITTING
DATE: 4/19/2016

GENERAL NOTES:

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STATE OF VERMONT
NORMAN R. GOSSELIN
NO. 0180117534
CIVIL
LICENSED
PROFESSIONAL ENGINEER

Norman R. Gosselin
04/20/2016

VERMONT GREEN LINE

REVISION					
No.	DATE	DESCRIPTION	DSN	CHK	APP
A	4/19/16	ISSUED FOR PERMITTING REVIEW	DML	REH	NRG

Cornerstone Energy Services

PSC

TRC

DRAWN	DML	DATE	4/19/2016
CHECKED	NRG	DATE	4/19/2016

SCALE: 1" = 100'
PROJ. NO.: 15077.05
File No.: VT_Alignment sheets.dwg

VERMONT GREEN LINE
VT OVERLAND ROUTE
PLAN AND PROFILE
STA. 2826+33 TO 2853+84
FERRISBURGH, VERMONT

APPROVED BY _____
DATE: _____

HVDC-VT-L-014

File: VT_Alignment sheets.dwg Apr 20, 2016 - 07:56am

OWNER

US FEET

UTM - NAD 83 ZONE 18

LEGEND:

- PROPOSED TRANSMISSION LINE EASEMENT
- TEMPORARY EASEMENT
- FENCE LINE
- APPROXIMATE PROPERTY LINE
- MAJOR CONTOURS
- MINOR CONTOURS
- ROAD RIGHT-OF-WAY LINE
- WETLAND
- POND
- RIVER
- STREAM
- CULVERT
- WATER LINE (UTILITY)
- GUARD RAIL
- OHW — OVERHEAD ELECTRICAL WIRE
- UE — UNDERGROUND ELECTRICAL
- LIGHT POST
- UTILITY POLE
- GUY ANCHOR
- LINE LIST NUMBER
- CONCRETE BOUND
- IRON ROD
- ROAD SIGN
- CATCH BASIN
- MAILBOX
- FLAGPOLE
- TREE
- POST
- MP 0.0 — MILE POST

PLOT SIZE = 24x36

GRAPHIC SCALE 100 50 0 100 200 300

METHOD OF CONSTRUCTION REFERENCE (SEE DETAILS)	STATE HIGHWAY	HDD	STATE HIGHWAY

PROFILE

PROFILE: PLOT SIZE = 24x36
HORIZONTAL SCALE: 1"=50'

ISSUED FOR PERMITTING
DATE: 4/19/2016

GENERAL NOTES:

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STATE OF VERMONT
NORMAN R GOSSELIN
NO. 0180117534
CIVIL
LICENSED
PROFESSIONAL ENGINEER
01/20/2016

VERMONT GREEN LINE

REVISION

No.	DATE	DESCRIPTION	DSN	CHK	APP
A	4/19/16	ISSUED FOR PERMITTING REVIEW	DML	REH	NRG

Cornerstone Energy Services

PSC

TRC

DRAWN	DML	DATE	4/19/2016
CHECKED	NRG	DATE	4/19/2016

SCALE: 1" = 100'
PROJ. NO.: 15077.05
File No.: VT_Alignment sheets.dwg

VERMONT GREEN LINE
VT OVERLAND ROUTE
PLAN AND PROFILE
STA. 2853+84 TO 2881+35
FERRISBURGH, VERMONT

APPROVED BY _____
DATE: _____

HVDC-VT-L-015

File: VT_Alignment sheets.dwg Apr 20, 2016 - 07:56am

OWNER

PLOT SIZE = 24x36

GRAPHIC SCALE 100 50 0 100 200 300

LEGEND:

- PROPOSED TRANSMISSION LINE EASEMENT
- TEMPORARY EASEMENT
- FENCE LINE
- APPROXIMATE PROPERTY LINE
- MAJOR CONTOURS
- MINOR CONTOURS
- ROAD RIGHT-OF-WAY LINE
- WETLAND
- POND
- RIVER
- STREAM
- CULVERT
- WATER LINE (UTILITY)
- GUARD RAIL
- OVERHEAD ELECTRICAL WIRE
- UNDERGROUND ELECTRICAL
- LIGHT POST
- UTILITY POLE
- GUY ANCHOR
- LINE LIST NUMBER
- CONCRETE BOUND
- IRON ROD
- ROAD SIGN
- CATCH BASIN
- MAILBOX
- FLAGPOLE
- TREE
- POST
- MILE POST

METHOD OF CONSTRUCTION REFERENCE (SEE DETAILS)

STATE HIGHWAY

PROFILE

PROFILE: PLOT SIZE = 24x36
HORIZONTAL SCALE: 1"=50'

ISSUED FOR PERMITTING
DATE: 4/19/2016

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STATE OF VERMONT — NORMAN R. GOSSELIN — NO. 018011753 — CIVIL — LICENSED PROFESSIONAL ENGINEER

Norman R. Gosselin 04/20/2016

VERMONT GREEN LINE

REVISION

No.	DATE	DESCRIPTION	DSN	CHK	APP
A	4/19/16	ISSUED FOR PERMITTING REVIEW	DML	REH	NRG

Cornerstone Energy Services

PSC

TRC

DRAWN	DML	DATE	4/19/2016
CHECKED	NRG	DATE	4/19/2016

SCALE: 1" = 100'
PROJ. NO.: 15077.05
File No.: VT_Alignment sheets.dwg

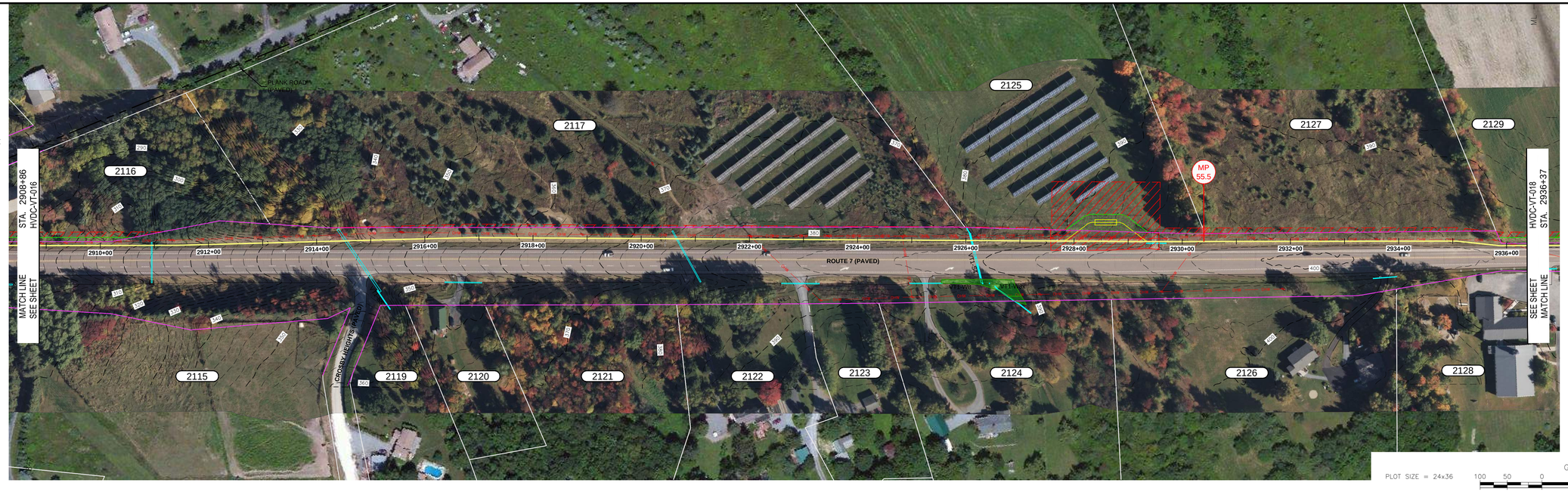
VERMONT GREEN LINE
VT OVERLAND ROUTE
PLAN AND PROFILE
STA. 2881+35 TO 2908+86
FERRISBURGH, VERMONT / WALTHAM, VERMONT

APPROVED BY _____
DATE: _____

HVDC-VT-L-016

File: VT_Alignment sheets.dwg Apr 20, 2016 - 07:57am

OWNER



US FEET

UTM NAD 83 ZONE 18

LEGEND:

- PROPOSED TRANSMISSION LINE EASEMENT
- TEMPORARY EASEMENT
- FENCE LINE
- APPROXIMATE PROPERTY LINE
- MAJOR CONTOURS
- MINOR CONTOURS
- ROAD RIGHT-OF-WAY LINE
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- MAILBOX
- FLAGPOLE
- TREE
- POST
- MILE POST

PLOT SIZE = 24x36

GRAPHIC SCALE 100 50 0 100 200 300

METHOD OF CONSTRUCTION REFERENCE (SEE DETAILS)

STATE HIGHWAY

PROFILE

PROFILE: PLOT SIZE = 24x36
HORIZONTAL SCALE: 1"=50'

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STATE OF VERMONT
NORMAN R GOSSELIN
NO. 0180117534
CIVIL
LICENSED
PROFESSIONAL ENGINEER
01/20/2016

VERMONT GREEN LINE

REVISION

No.	DATE	DESCRIPTION	DSN	CHK	APP
A	4/19/16	ISSUED FOR PERMITTING REVIEW	DML	REH	NRG

Cornerstone Energy Services

PSC

TRC

DRAWN	DML	DATE	4/19/2016
CHECKED	NRG	DATE	4/19/2016

SCALE: 1" = 100'
PROJ. NO.: 15077.05
File No.: VT_Alignment sheets.dwg

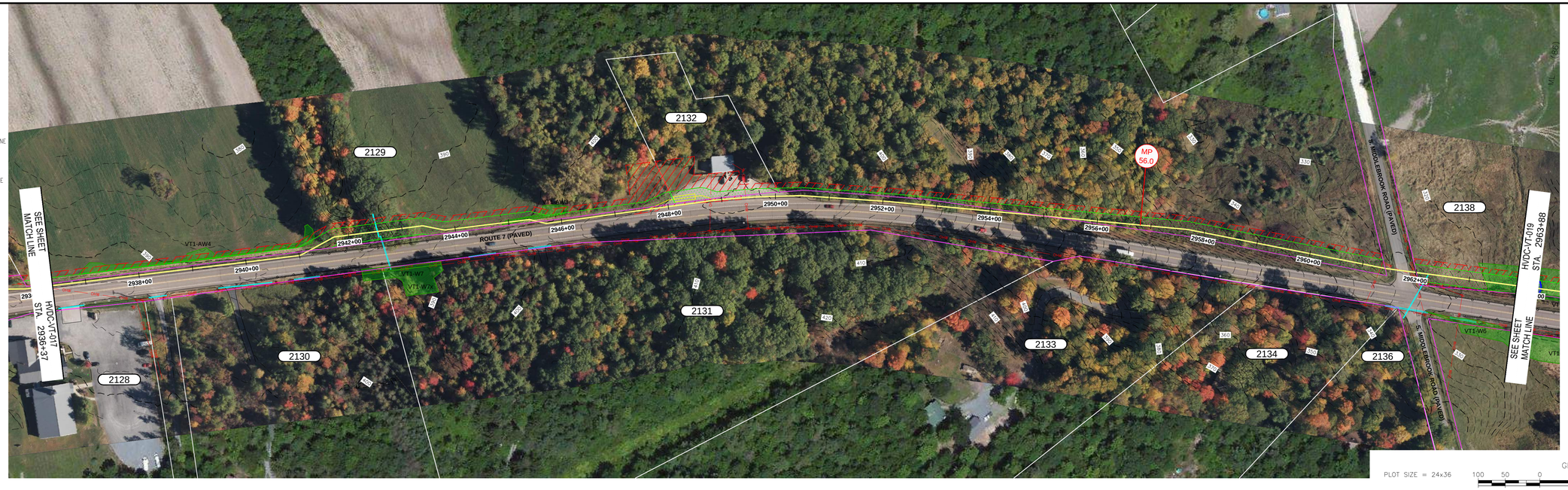
VERMONT GREEN LINE
VT OVERLAND ROUTE
PLAN AND PROFILE
STA. 2908+86 TO 2936+37
WALTHAM, VERMONT

APPROVED BY _____
DATE: _____

HVDC-VT-L-017

File: VT_Alignment sheets.dwg Apr 20, 2016 - 07:57am

OWNER



US FEET
UTM NAD83 ZONE 18

LEGEND:

- PROPOSED TRANSMISSION LINE EASEMENT
- TEMPORARY EASEMENT
- FENCE LINE
- APPROXIMATE PROPERTY LINE
- MAJOR CONTOURS
- MINOR CONTOURS
- ROAD RIGHT-OF-WAY LINE
- WETLAND
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- WATER LINE (UTILITY)
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- LIGHT POST
- UTILITY POLE
- GUY ANCHOR
- ##### — LINE LIST NUMBER
- CONCRETE BOUND
- IRON ROD
- ROAD SIGN
- CATCH BASIN
- MAILBOX
- FLAGPOLE
- TREE
- POST
- MP 0.0 — MILE POST

PLOT SIZE = 24x36

GRAPHIC SCALE 100 50 0 100 200 300

METHOD OF CONSTRUCTION REFERENCE (SEE DETAILS)

STATE HIGHWAY

PROFILE

PROFILE: PLOT SIZE = 24x36
HORIZONTAL SCALE: 1"=50'

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STATE OF VERMONT
NORMAN R. GOSSELIN
NO. 0180117534
CIVIL
LICENSED
PROFESSIONAL ENGINEER

Norman R. Gosselin
04/20/2016

VERMONT GREEN LINE

REVISION

No.	DATE	DESCRIPTION	DSN	CHK	APP
A	4/19/16	ISSUED FOR PERMITTING REVIEW	DML	REH	NRG

Cornerstone Energy Services

PSC

TRC

DRAWN	DML	DATE	4/19/2016
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SCALE: 1" = 100'
PROJ. NO.: 15077.05
File No.: VT_Alignment sheets.dwg

VERMONT GREEN LINE
VT OVERLAND ROUTE
PLAN AND PROFILE
STA. 2936+37 TO 2963+88
WALTHAM, VERMONT

APPROVED BY _____
DATE:
HVDC-VT-L-018

File: VT_Alignment sheets.dwg Apr 20, 2016 - 07:57am

OWNER

US FEET
UTM - NAD 83
ZONE 18

LEGEND:

- PROPOSED TRANSMISSION LINE EASEMENT
- TEMPORARY EASEMENT
- FENCE LINE
- APPROXIMATE PROPERTY LINE
- MAJOR CONTOURS
- MINOR CONTOURS
- ROAD RIGHT-OF-WAY LINE
- WETLAND
- POND
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- ROAD SIGN
- CATCH BASIN
- MAILBOX
- FLAGPOLE
- TREE
- POST
- MP 0.0 — MILE POST

PLOT SIZE = 24x36

GRAPHIC SCALE 100 50 0 100 200 300

METHOD OF CONSTRUCTION REFERENCE (SEE DETAILS)

STATE HIGHWAY

PROFILE

PROFILE: PLOT SIZE = 24x36
HORIZONTAL SCALE: 1"=50'

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STATE OF VERMONT
NORMAN R GOSSELIN
NO. 0180117534
CIVIL
LICENSED
PROFESSIONAL ENGINEER

Norman R Gosselin
04/20/2016

VERMONT GREEN LINE

REVISION

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Cornerstone Energy Services

PSC

TRC

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SCALE: 1" = 100'
PROJ. NO.: 15077.05
File No.: VT_Alignment sheets.dwg

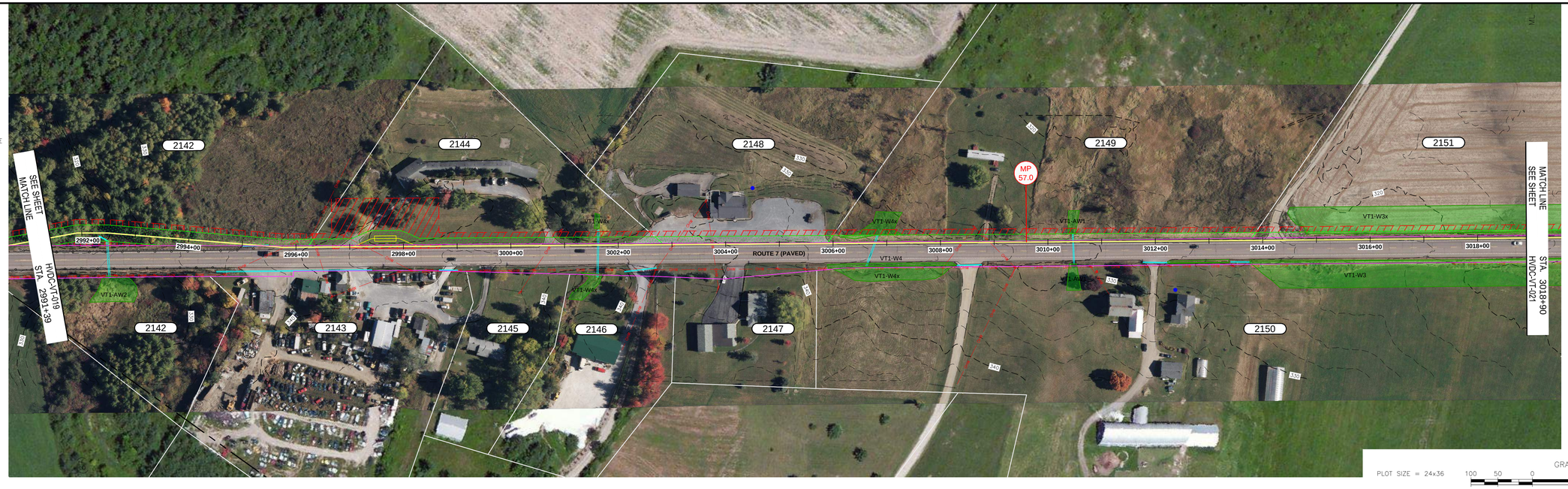
VERMONT GREEN LINE
VT OVERLAND ROUTE
PLAN AND PROFILE
STA. 2963+88 TO 2991+39
WALTHAM, VERMONT / NEW HAVEN, VERMONT

APPROVED BY _____
DATE: _____

HVDC-VT-L-019

File: VT_Alignment sheets.dwg Apr 20, 2016 - 07:57am

OWNER



US FEET
UTM NAD 83 ZONE 18

LEGEND:

- PROPOSED TRANSMISSION LINE EASEMENT
- TEMPORARY EASEMENT
- FENCE LINE
- APPROXIMATE PROPERTY LINE
- MAJOR CONTOURS
- MINOR CONTOURS
- ROAD RIGHT-OF-WAY LINE
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- LINE LIST NUMBER
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- IRON ROD
- ROAD SIGN
- CATCH BASIN
- MAILBOX
- FLAGPOLE
- TREE
- POST
- MILE POST

PLOT SIZE = 24x36

GRAPHIC SCALE 100 50 0 100 200 300

METHOD OF CONSTRUCTION REFERENCE (SEE DETAILS)

MUNICIPAL ROAD

PROFILE

PROFILE: PLOT SIZE = 24x36
HORIZONTAL SCALE: 1"=50'

ISSUED FOR PERMITTING
DATE: 4/19/2016

GENERAL NOTES:

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STATE OF VERMONT
NORMAN R GOSSELIN
NO. 0180117531
CIVIL
LICENSED
PROFESSIONAL ENGINEER

Norman R Gosselin
01/20/2016

VERMONT GREEN LINE

REVISION

No.	DATE	DESCRIPTION	DSN	CHK	APP
A	4/19/16	ISSUED FOR PERMITTING REVIEW	DML	REH	NRG

Cornerstone Energy Services

PSC

TRC

DRAWN	DML	DATE	4/19/2016
CHECKED	NRG	DATE	4/19/2016

SCALE: 1" = 100'
PROJ. NO.: 15077.05
File No.: VT_Alignment sheets.dwg

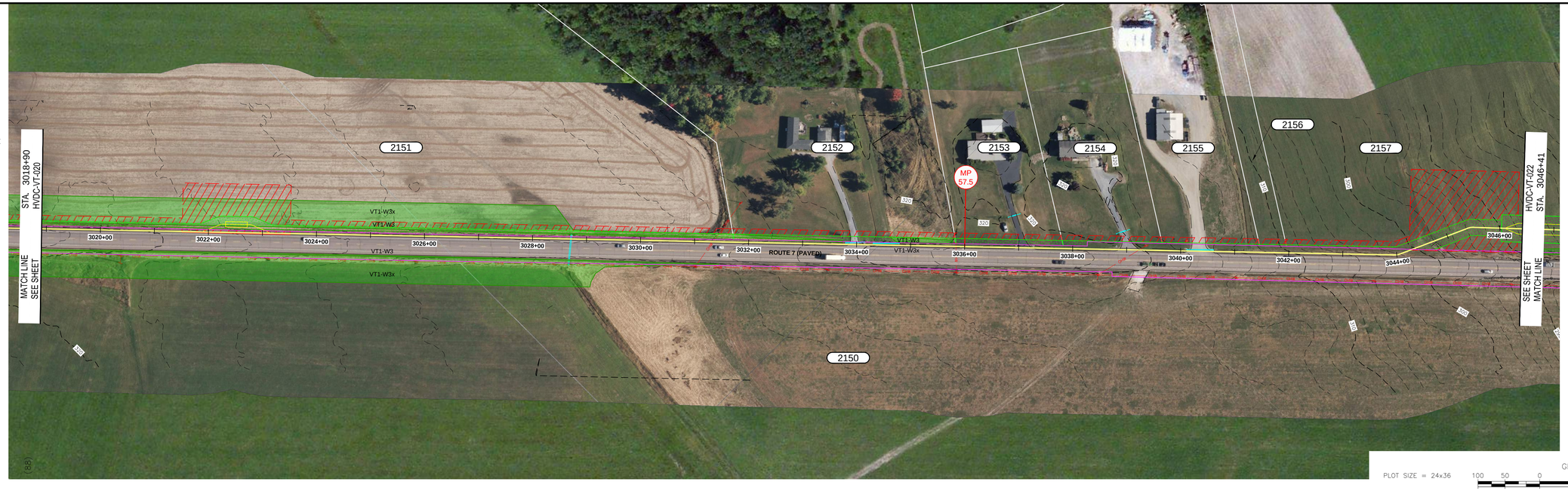
VERMONT GREEN LINE
VT OVERLAND ROUTE
PLAN AND PROFILE
STA. 2991+39 TO 3018+90
NEW HAVEN, VERMONT

APPROVED BY _____
DATE: _____

HVDC-VT-L-020

File: VT_Alignment sheets.dwg Apr 20, 2016 - 07:57am

OWNER



US FEET
UTM - NAD 83
ZONE 18

LEGEND:

- PROPOSED TRANSMISSION LINE EASEMENT
- TEMPORARY EASEMENT
- FENCE LINE
- APPROXIMATE PROPERTY LINE
- MAJOR CONTOURS
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- IRON ROD
- ROAD SIGN
- CATCH BASIN
- MAILBOX
- FLAGPOLE
- TREE
- POST
- MILE POST

PLOT SIZE = 24x36

GRAPHIC SCALE
100 50 0 100 200 300

METHOD OF CONSTRUCTION REFERENCE (SEE DETAILS)	STATE HIGHWAY	HDD

PROFILE

PROFILE: PLOT SIZE = 24x36
HORIZONTAL SCALE: 1"=50'

ISSUED FOR PERMITTING
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STATE OF VERMONT
NORMAN R. GOSSELIN
NO. 0180117534
CIVIL
LICENSED
PROFESSIONAL ENGINEER

Norman R. Gosselin
04/20/2016

VERMONT GREEN LINE

REVISION

No.	DATE	DESCRIPTION	DSN	CHK	APP
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Cornerstone Energy Services
PSC
TRC

DRAWN	DML	DATE	4/19/2016
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SCALE: 1" = 100'
PROJ. NO.: 15077.05
File No.: VT_Alignment sheets.dwg

VERMONT GREEN LINE
VT OVERLAND ROUTE
PLAN AND PROFILE
STA. 3018+90 TO 3046+41
NEW HAVEN, VERMONT

APPROVED BY _____
DATE: _____

HVDC-VT-L-021

File: VT_Alignment sheets.dwg Apr 20, 2016 - 07:57am

OWNER

US FEET
UTM - NAD 83 ZONE 18

LEGEND:

- PROPOSED TRANSMISSION LINE
- EASEMENT
- TEMPORARY EASEMENT
- FENCE LINE
- APPROXIMATE PROPERTY LINE
- MAJOR CONTOURS
- MINOR CONTOURS
- ROAD RIGHT-OF-WAY LINE
- XXXX WETLAND
- XXXX POND
- XXXX RIVER
- STREAM
- CULVERT
- W WATER LINE (UTILITY)
- GUARD RAIL
- OHW OVERHEAD ELECTRICAL WIRE
- UE UNDERGROUND ELECTRICAL
- LIGHT POST
- UTILITY POLE
- GUY ANCHOR
- ##### LINE LIST NUMBER
- CONCRETE BOUND
- IRON ROD
- ROAD SIGN
- CATCH BASIN
- MAILBOX
- FLAGPOLE
- TREE
- POST
- MP 0.0 MILE POST

PLOT SIZE = 24x36

GRAPHIC SCALE 100 50 0 100 200 300

METHOD OF CONSTRUCTION REFERENCE (SEE DETAILS)	HDD	STATE HIGHWAY	

PROFILE

PROFILE: PLOT SIZE = 24x36
HORIZONTAL SCALE: 1"=50'

ISSUED FOR PERMITTING
DATE: 4/19/2016

GENERAL NOTES:

1. INFORMATION DEPICTED HEREON IS BASED ON SURVEY AND AERIAL MAPPING PERFORMED FOR THE PURPOSE OF ESTABLISHING A BASELINE FOR MAPPING.
2. UTILITIES DEPICTED HEREON ARE BASED UPON FIELD RECONNAISSANCE AS WELL AS RESEARCH WITH THE LOCAL UTILITY COMPANIES.

STATE OF VERMONT
NORMAN R. GOSSELIN
NO. 0180117534
CIVIL
LICENSED
PROFESSIONAL ENGINEER

Norman R. Gosselin
01/20/2016

VERMONT GREEN LINE

REVISION

No.	DATE	DESCRIPTION	DSN	CHK	APP
A	4/19/16	ISSUED FOR PERMITTING REVIEW	DML	REH	NRG

Cornerstone Energy Services

PSC

TRC

DRAWN	DML	DATE	4/19/2016
CHECKED	NRG	DATE	4/19/2016

SCALE: 1" = 100'
PROJ. NO.: 15077.05
File No.: VT_Alignment sheets.dwg

VERMONT GREEN LINE
VT OVERLAND ROUTE
PLAN AND PROFILE
STA. 3046+41 TO 3073+92
NEW HAVEN, VERMONT

APPROVED BY _____
DATE: _____

HVDC-VT-L-022

File: VT_Alignment sheets.dwg Apr 20, 2016 - 07:57am

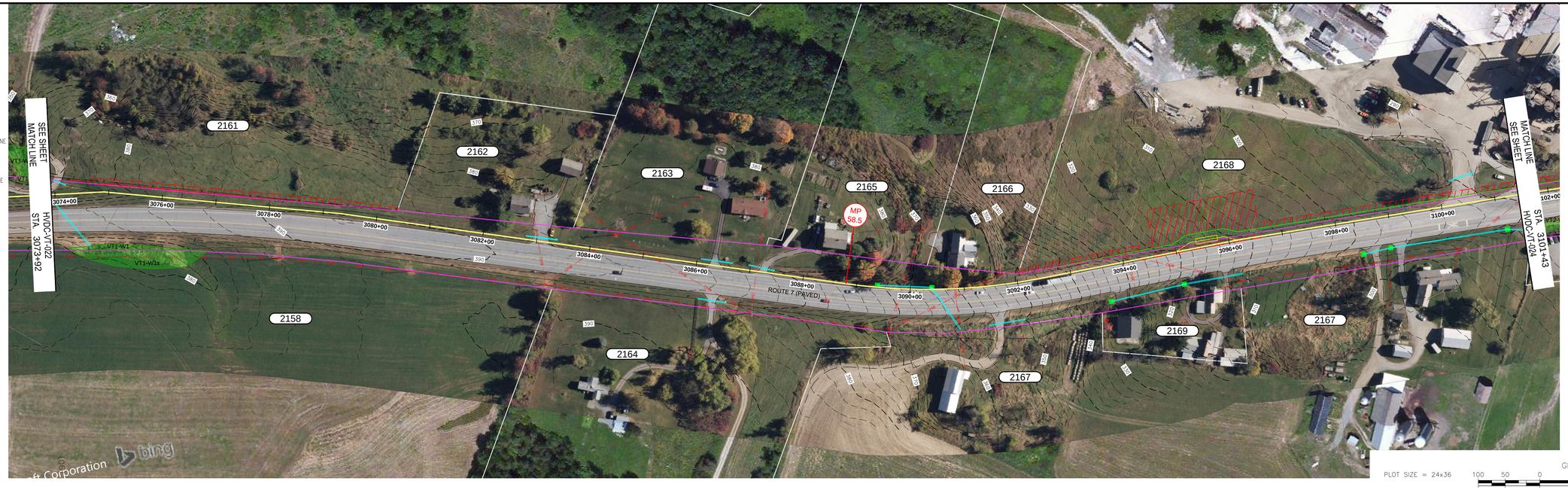
OWNER

US FEET

UTM - NAD83 ZONE 18

LEGEND:

- PROPOSED TRANSMISSION LINE EASEMENT
- TEMPORARY EASEMENT
- FENCE LINE
- APPROXIMATE PROPERTY LINE
- MAJOR CONTOURS
- MINOR CONTOURS
- ROAD RIGHT-OF-WAY LINE
- WETLAND
- POND
- RIVER
- STREAM
- CULVERT
- WATER LINE (UTILITY)
- GUARD RAIL
- OHW — OVERHEAD ELECTRICAL WIRE
- UE — UNDERGROUND ELECTRICAL
- LIGHT POST
- UTILITY POLE
- GUY ANCHOR
- ##### — LINE LIST NUMBER
- CONCRETE BOUND
- IRON ROD
- ROAD SIGN
- CATCH BASIN
- MAILBOX
- FLAGPOLE
- TREE
- POST
- MP 0.0 — MILE POST



PLOT SIZE = 24x36

GRAPHIC SCALE

100 50 0 100 200 300

METHOD OF CONSTRUCTION REFERENCE (SEE DETAILS)

STATE HIGHWAY

PROFILE

PROFILE: PLOT SIZE = 24x36
HORIZONTAL SCALE: 1"=50'

ISSUED FOR PERMITTING
DATE: 4/19/2016

GENERAL NOTES:

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STATE OF VERMONT
NORMAN R. GOSSELIN
NO. 0180117534
CIVIL
LICENSED
PROFESSIONAL ENGINEER

Norman R Gosselin
04/20/2016

VERMONT GREEN LINE

REVISION

No.	DATE	DESCRIPTION	DSN	CHK	APP
A	4/19/16	ISSUED FOR PERMITTING REVIEW	DML	REH	NRG

Cornerstone Energy Services

PSC

TRC

DRAWN	DML	DATE	4/19/2016
CHECKED	NRG	DATE	4/19/2016

SCALE: 1" = 100'
PROJ. NO.: 15077.05
File No.: VT_Alignment sheets.dwg

VERMONT GREEN LINE
VT OVERLAND ROUTE
PLAN AND PROFILE
STA. 3073+92 TO 3101+43
NEW HAVEN, VERMONT

APPROVED BY _____
DATE: _____

HVDC-VT-L-023

File: VT_Alignment sheets.dwg Apr 20, 2016 - 07:57am

OWNER

LEGEND:

- PROPOSED TRANSMISSION LINE EASEMENT
- TEMPORARY EASEMENT
- FENCE LINE
- APPROXIMATE PROPERTY LINE
- MAJOR CONTOURS
- MINOR CONTOURS
- ROAD RIGHT-OF-WAY LINE
- XXXX WETLAND
- XXXX POND
- XXXX RIVER
- STREAM
- CULVERT
- W WATER LINE (UTILITY)
- GUARD RAIL
- OHW OVERHEAD ELECTRICAL WIRE
- UE UNDERGROUND ELECTRICAL
- LIGHT POST
- UTILITY POLE
- GUY ANCHOR
- ##### LINE LIST NUMBER
- CONCRETE BOUND
- IRON ROD
- ROAD SIGN
- CATCH BASIN
- MAILBOX
- FLAGPOLE
- TREE
- POST
- MP 0.0 MILE POST

PLOT SIZE = 24x36

GRAPHIC SCALE 100 50 0 100 200 300

METHOD OF CONSTRUCTION REFERENCE (SEE DETAILS)	STATE HIGHWAY	HDD	STATE HIGHWAY

PROFILE

PROFILE: PLOT SIZE = 24x36
HORIZONTAL SCALE: 1"=50'

ISSUED FOR PERMITTING
DATE: 4/19/2016

GENERAL NOTES:

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STATE OF VERMONT
NORMAN R. GOUSSEUN
NO. 0180117534
CIVIL
LICENSED PROFESSIONAL ENGINEER

Norman R. Gousseun
01/20/2016

VERMONT GREEN LINE

REVISION

No.	DATE	DESCRIPTION	DSN	CHK	APP
A	4/19/16	ISSUED FOR PERMITTING REVIEW	DML	REH	NRG

Cornerstone Energy Services

PSC

TRC

DRAWN	DML	DATE	4/19/2016
CHECKED	NRG	DATE	4/19/2016

SCALE: 1" = 100'
PROJ. NO.: 15077.05
File No.: VT_Alignment sheets.dwg

VERMONT GREEN LINE
VT OVERLAND ROUTE
PLAN AND PROFILE
STA. 3101+43 TO 3128+94
NEW HAVEN, VERMONT

APPROVED BY _____
DATE:
HVDC-VT-L-024

File: VT_Alignment sheets.dwg Apr 20, 2016 - 07:56am

OWNER

LEGEND:

- PROPOSED TRANSMISSION LINE EASEMENT
- TEMPORARY EASEMENT
- FENCE LINE
- APPROXIMATE PROPERTY LINE
- MAJOR CONTOURS
- MINOR CONTOURS
- ROAD RIGHT-OF-WAY LINE
- WETLAND
- POND
- RIVER
- STREAM
- CULVERT
- WATER LINE (UTILITY)
- GUARD RAIL
- OHW — OVERHEAD ELECTRICAL WIRE
- UE — UNDERGROUND ELECTRICAL
- LIGHT POST
- UTILITY POLE
- GUY ANCHOR
- ##### — LINE LIST NUMBER
- CONCRETE BOUND
- IRON ROD
- ROAD SIGN
- CATCH BASIN
- MAILBOX
- FLAGPOLE
- TREE
- POST
- MP 0.0 — MILE POST

PLOT SIZE = 24x36

GRAPHIC SCALE 100 50 0 100 200 300

METHOD OF CONSTRUCTION REFERENCE (SEE DETAILS)	STATE HIGHWAY	CROSS COUNTRY

PROFILE

PROFILE: PLOT SIZE = 24x36
HORIZONTAL SCALE: 1"=50'

ISSUED FOR PERMITTING
DATE: 4/19/2016

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STATE OF VERMONT — NORMAN R. GOSSELIN — NO. 0180117534 — CIVIL — LICENSED — PROFESSIONAL ENGINEER

Norman R. Gosselin 04/20/2016

VERMONT GREEN LINE

REVISION

No.	DATE	DESCRIPTION	DSN	CHK	APP
A	4/19/16	ISSUED FOR PERMITTING REVIEW	DML	REH	NRG

Cornerstone Energy Services — PSC — TRC

DRAWN	DML	DATE	4/19/2016
CHECKED	NRG	DATE	4/19/2016

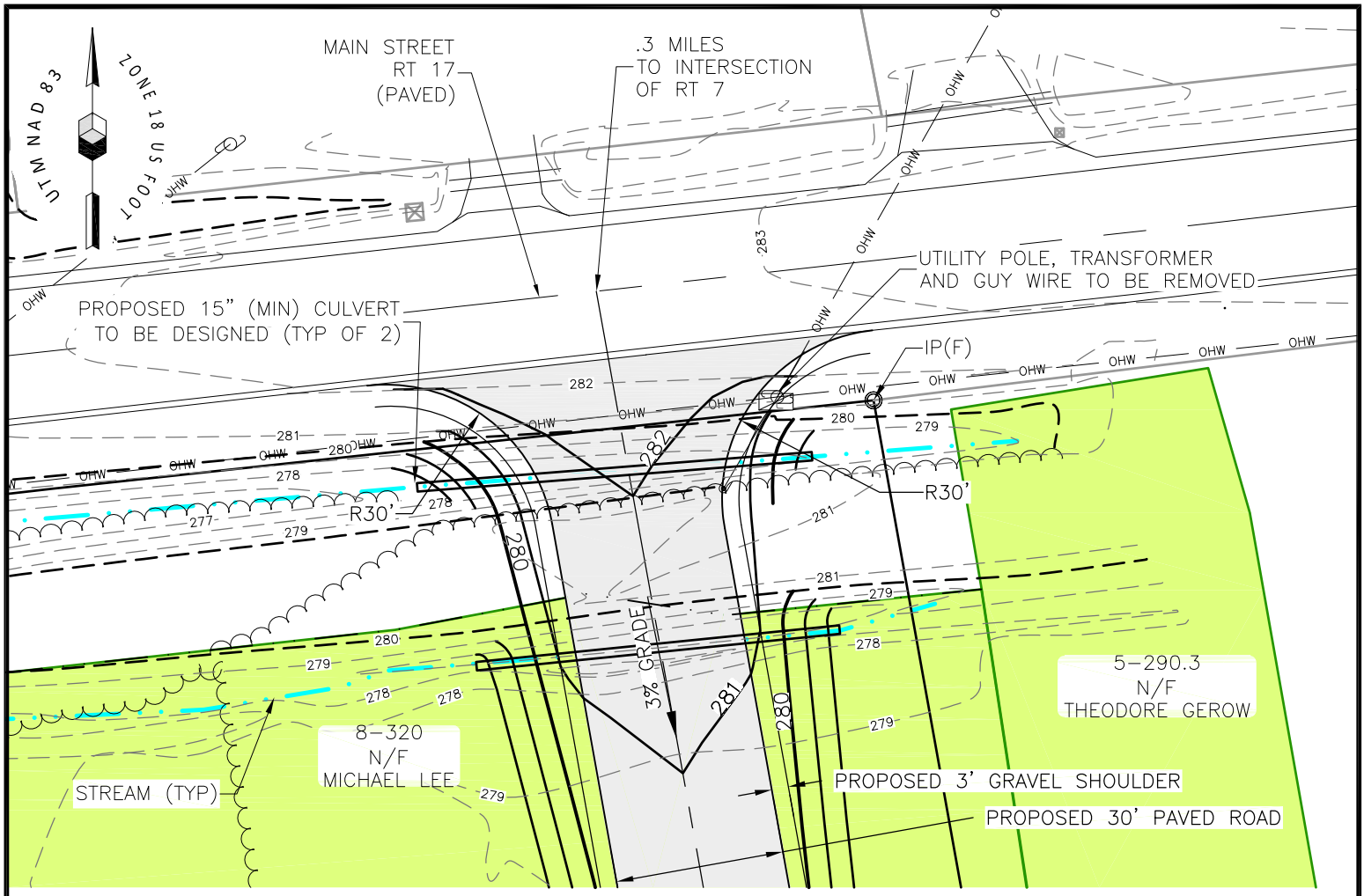
SCALE: 1" = 100'
PROJ. NO.: 15077.05
File No.: VT_Alignment sheets.dwg

VERMONT GREEN LINE
VT OVERLAND ROUTE
PLAN AND PROFILE
STA. 3128+94 TO 3156+45
NEW HAVEN, VERMONT

APPROVED BY _____
DATE: _____

HVDC-VT-L-025

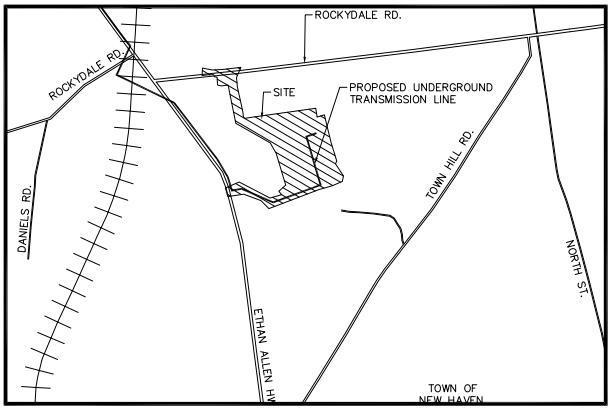
File: VT_Alignment sheets.dwg Apr 20, 2016 - 07:56am



ACCESS ROAD ENTRANCE
PLAN VIEW
1"=30'

LEGEND:

- STREET/HIGHWAY LINE
- TREELINE
- OHW — OHW — OVERHEAD ELECTRICAL LINE
- STREAM
- WETLAND DELINEATED BY TRC
- APPROXIMATE PROPERTY LINE
- ABUTTER PROPERTY LINE
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- IRON ROD
- N/F — NOW OR FORMERLY
- IP(F) — IRON PIN FOUND
- UTILITY POLE
- GUY WIRE
- ELECTRICAL BOX
- MAIL BOX
- PROPOSED PAVEMENT
- PROPOSED GRAVEL
- PROPOSED CONTOUR MAJOR
- PROPOSED CONTOUR MINOR



LOCUS MAP
N.T.S.

Preliminary
03/08/2016 1:06:31 PM

VERMONT GREEN LINE

TRC
Cornerstone Energy Services
PSC

REVISION No.	DATE
DRAWN REH	DATE 03-08-16
CHECKED	DATE
APPROVED NRG	DATE
SCALE: 1" = 30'	

VERMONT GREEN LINE
NEW HAVEN CONVERTER SITE
ACCESS ROAD ENTRANCE
NEW HAVEN, VT

Dwg No.:

File: VTGL_VT_Converter Site_030716.dwg Mar 08, 2016 - 11:41am

Vermont Green Line Project
Table of Culvert Crossings and Contingency Alternatives

Station	Type	Location Description	Town	Culvert Details	Crossing Elev	Culvert Invert @ Crossing	Cable Elev @ Crossing	Trench Depth	Crossing Location	Proposed Solution	Alternate Solution
2801+27	Catch Basin	Route 7: approx. 50ft north of Slatterly Rd intersection.	Ferrisburgh	Catch Basin	N/A	N/A	N/A		Off-Pavement	Route cables around Catch Basin CB.	
2805+80	Culvert Crossing	Route 7: approx. 400ft south of Slatterly Rd intersection.	Ferrisburgh	N/A	N/A	N/A	N/A		Off-Pavement	Open cut at culvert outfall within ROW outside of pavement. Install conduits 5ft below invert.	
2817+00	Culvert Crossing	Route 7: approx. 1500ft south of Slatterly Rd intersection.	Ferrisburgh	24" CMP	N/A	N/A	N/A	N/A	5ft from outfall	Open cut at culvert outfall within ROW outside of pavement. Install conduits 5ft below invert.	
2888+05	Culvert Crossing	Route 7: approx. 200ft north of New Haven Rd. intersection.	Ferrisburgh	60" RCP	172.00	162.70	157.70	15.80	Off-Pavement	Open cut and pass under culvert within ROW and outside of pavement. Conduits to be installed 5ft below invert.	
2914+54	Culvert Crossing	Route 7: approx. 900ft south of Plank Rd. intersection.	Waltham	36" CMP	339.00	No Data	No Data	No Data	Off-Pavement	Open cut and pass under culvert within ROW and outside of pavement. Conduits to be installed 5ft below invert.	
2920+60	Culvert Crossing	Route 7: approx. 1500ft south of Plank Rd. intersection.	Waltham	N/A	N/A	N/A	N/A		N/A	Open cut and pass under culvert within ROW and outside of pavement. Conduits to be installed 5ft below invert.	
2926+10	Culvert Crossing	Route 7: approx. 2100ft south of Plank Rd. intersection.	Waltham	36" CMP	385.00	379.52	374.52	11.98	Off-Pavement	Open cut and pass under culvert within ROW and outside of pavement. Conduits to be installed 5ft below invert.	
2942+56	Culvert Crossing	Route 7: approx. 2000ft north of S. Middle Brook Rd. intersection.	Waltham	18" CMP	N/A	N/A	N/A	N/A	5ft from outfall	Open cut at culvert outfall outside of ROW. (Private Prop. Easement Required) Install conduits 5ft below invert.	Cross over culvert within pavement. Top of pipe to pavement approx 10ft.
2964+22	Culvert Crossing	Route 7: approx. 240ft south of S. Middle Brook Rd. intersection.	Waltham	48"CMP	N/A	N/A	N/A	N/A	5ft from outfall	Open cut at culvert outfall outside of ROW. (Private Prop. Easement Required) Install conduits 5ft below invert.	Cross over culvert within pavement. Top of pipe to pavement approx 10ft.
2987+04	Culvert Crossing	Route 7: approx. 2400ft south of S. Middle Brook Rd. intersection.	Waltham	24" RCP	N/A	N/A	N/A	N/A	5ft from outfall	Open cut at culvert outfall outside of ROW. (Private Prop. Easement Required) Install conduits 5ft below invert.	Cross over culvert within pavement. Top of conduits approx 5ft below top of pavement.
2992+47	Culvert Crossing	Route 7: approx. 2900ft south of S. Middle Brook Rd. intersection.	New Haven	24" BOX	N/A	N/A	N/A	N/A	5ft from outfall	Open cut at culvert outfall outside of ROW. (Private Prop. Easement Required) Install conduits 5ft below invert.	Cross over culvert within pavement. Top of conduits approx 5ft below top of pavement.
3001+62	Culvert Crossing	Route 7: approx. 4000ft south of Plank Rd. intersection.	New Haven	24" RCP	342.00	333.5	328.50	15.00	Off-Pavement	Open cut and pass under culvert within ROW. Conduits to be installed 5ft below invert.	Additional investigation needed. <15ft Trench depth required to meet 5ft clearance.
3006+78	Culvert Crossing	Route 7: approx. 4500ft south of Plank Rd. intersection.	New Haven	24" RCP	334.00	329.6	324.60	10.90	Off-Pavement	Open cut and pass under culvert within ROW. Conduits to be installed 5ft below invert.	
3010+46	Culvert Crossing	Route 7: approx. 4900ft south of Plank Rd. intersection.	New Haven	18" RCP	330.00	324.5	319.50	12.00	Off-Pavement	Open cut and pass under culvert within ROW at EoP. Conduits to be installed 5ft below invert.	
3073+85	Culvert Crossing	Route 7: approx. 400ft south of Lime Kiln Rd. intersection.	New Haven	24"CMP	373.00	368.2	363.20	11.30	Off-Pavement	Open cut and pass under culvert within ROW. Conduits to be installed 5ft below invert.	
3089+50	Catch Basin	Route 7: approx. 1600ft north of New Haven Jct RT-17W (Otter Crk Rd.) intersection.	New Haven	Catch Basin	N/A	N/A	N/A		Off-Pavement	Route cables around Catch Basin CB. Possible CB reconstruction due to slope on ROW.	
3130+00	Culvert Crossing	Route 7: approx. 1200ft south of RT-17E (Main St) intersection.	New Haven	3-36" CMP	N/A	N/A	N/A	N/A	Off-Pavement	Open cut and pass under culvert within ROW. Conduits to be installed 5ft below invert.	Open cut at culvert outfall outside of ROW. Install conduits 5ft below invert.