

Vermont Department of Environmental Conservation

Watershed Management Division
Springfield Regional Office
100 Mineral Street, Suite 303
Springfield, VT 05156
www.watershedmanagement.vt.gov

Agency of Natural Resources

[phone] 802-885-8855
[fax] 802-885-8890
[cell] 802-345-3510

AUTHORIZATION TO CONDUCT NEXT FLOOD MEASURES

Pursuant to Section F.2.b of the Vermont Stream Alteration General Permit

Project Number: **SA-05-010-2015 Royalton Perley Farm Road** FEMA PW # **0082(2)**
Applicant Name: Town of Royalton Selectboard Contact: Rose Hemaond or Larry Trottier
Mailing Address: PO Box 680, South Royalton, VT 05068 Phone: (802) 763-7967 or (802) 763-7667
Project Location: Perley Farm Road TH #34 on the White River Email: rselectman@bluemoo.net ltrottier@lftrottier.com

The Secretary of the Vermont Agency of Natural Resources (VT ANR) has determined that:

1. This project authorizes stone rip-rap stabilization of about 500' of road embankment along the White River.
2. The proposed activity is eligible for coverage under the VT ANR Stream Alteration General Permit – Next Flood Protective Measures.
3. The proposed activity will meet the terms and conditions of Section F of the General Permit provided:
 - a) The project will be completed and approved as shown on the plan dated 3/3/15, prepared by DuBois & King, and approved by the Vermont Agency of Natural Resources as attached herein.
 - b) The project is proportional to the threat and conditioned to cease when the threat to life or to improved property has ended.
 - c) The project will not result in a threat to life, public health or safety.
 - d) The project will meet the standards detailed in subsection E.2.1 and E.2.2 of the General Permit.
 - e) The project will meet Stream Alteration Standards to the greatest extent possible.
 - f) A pre-construction meeting is held between the contractor, owner/applicant, and the ANR River Management Engineer.
 - g) The River Management Engineer is notified by phone or email when construction begins and when the project is complete.

If there are any changes in the project plan or deviation in construction from the plan, the Permittee must notify the River Management Engineer immediately.

If the project is constructed as you have described, as shown on the above referenced approved plans and according to the above conditions, there is no reason to expect any violation of Vermont Water Quality Standards.

Signed this 27th day of March, 2015
David K. Mears, Commissioner
Department of Environmental Conservation

This permit expires October 1, 2015.

by: 

Todd Menees, P.E., P.H., River Management Engineer



March 13, 2015
621416P

Todd Menees, P.E.
River Management Engineer
Springfield Regional Office
100 Mineral Street, Suite 303
Springfield, VT 05156
VIA EMAIL: Todd.Menees@state.vt.us

Subject: TH #34 Perley Farm Road Reconstruction, Royalton, VT

Dear Todd:

On behalf of the Town of Royalton, Dubois & King, Inc. is hereby requesting clearance under the Stream Alteration General Permit, Section F.2(b), Next-Flood Protective Measures, for river work associated with the TH#34 Perley Farm Road Reconstruction Project, in Royalton, Vermont. We are providing the following information for your use:

- This letter
- General Permit Application
- Site location map
- Construction Drawings

Project Description

Perley Farm Road is a gravel town road which was significantly damaged during Tropical Storm Irene, in 2011. Approximately 500 linear feet of the road embankment adjacent to the White River failed during the event. The bank continues to fail and even small storm events produce river stages which cause erosion at the toe, perpetuating the instability.

The road is temporarily relocated and will be reconstructed approximately parallel to its original alignment, along the top of the existing bank. The existing river bank will be armored in place. A keyway composed of 5 foot riprap will be placed at the toe of the slope, which will be approximately coincident with the pre-Irene toe. The slope will be armored with 4 foot riprap to one foot above the 10-year flood event. The stone will armor approximately 550 linear feet of river bank and be tied back into the existing slopes.

The stone armoring used at the toe will be large, 5 foot minus diameter stone with no chinking stone specifically called for in the vicinity of the toe to leave voids to provide aquatic habitat.

The river drainage area at this location is approximately 413 square miles. Bankfull width based on the ANR hydraulic curves is approximately 186 feet. Existing bankfull width in the area, measured from aerial imagery, is approximately 200 feet. The proposed river work will be armoring the slope approximately in place and will not appreciably decrease bankfull width.

Mr. Todd Menees
March 13, 2015
Page 2 of 2

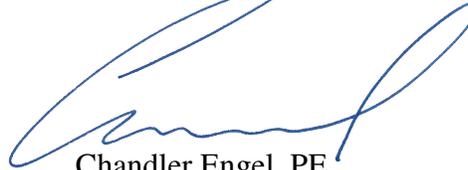
Temporary impacts below Ordinary High Water (OHW) include contractor activity including equipment access during the installation of the stone armoring, however the temporary activity will occur within the limits of the permanent impacts, where stone will be placed.

Permanent impacts below OHW include the placement of stone armoring. This work impacts approximately 550 linear feet of channel, and approximately 0.36 acres below OHW. Approximately 3,300 cubic yards of stone will be placed below OWH.

The representative for the Town of Royalton is Ms. Rose Hemond, Administration and Finance Manager, Town of Royalton, P.O. Box 680, South Royalton, VT 05068.

If you have any questions or comments, please contact me at 728-3376 or by email at cengel@dubois-king.com. Thank you for your assistance with this project.

Best Regards,
DuBois & King, Inc.

A handwritten signature in blue ink, appearing to read 'Chandler Engel', with a large, sweeping flourish at the end.

Chandler Engel, PE
Water Resources Engineer

VERMONT AGENCY OF NATURAL RESOURCES

APPLICATION FOR COVERAGE UNDER THE STREAM ALTERATION GENERAL PERMIT FOR REPORTING ACTIVITY (SECTION ~~C.2.2~~ F. 2 (b))

10 VSA, SECTIONS 1022 & 7503

Applicant Name DuBois & King For: Town of Royalton

Mailing Address P.O. Box 680, South Royalton, VT 05068

Agency Use Only
Project ID
Receipt Date
If >10 square miles use Individual Permit

Phone (802) 763-7967 Cell Email rselectboard@bluemoo.net

Landowner (if different than applicant)

Landowner Mailing Address Phone

Email

Project Location: Address Perley Farm Road Town Royalton Lat N 43.826185

River White Drainage Area 413 sq mi Long W 72.576033

Brief Project Description River bank stabilization and road reconstruction from Tropical Storm Irene damage

Consultant or Designer (if known) DuBois & King Phone (802) 728-3376 Email cengel@dubois-king.com

Contractor (if known) Not Bid Phone Email

Required Attachments (additional information may be required after initial application review)

- Location Map
List of adjacent landowners; names and addresses
2 copies of project design drawings including: PDFS plan view, cross sections, existing and proposed conditions, bankfull width (channel width at high water)

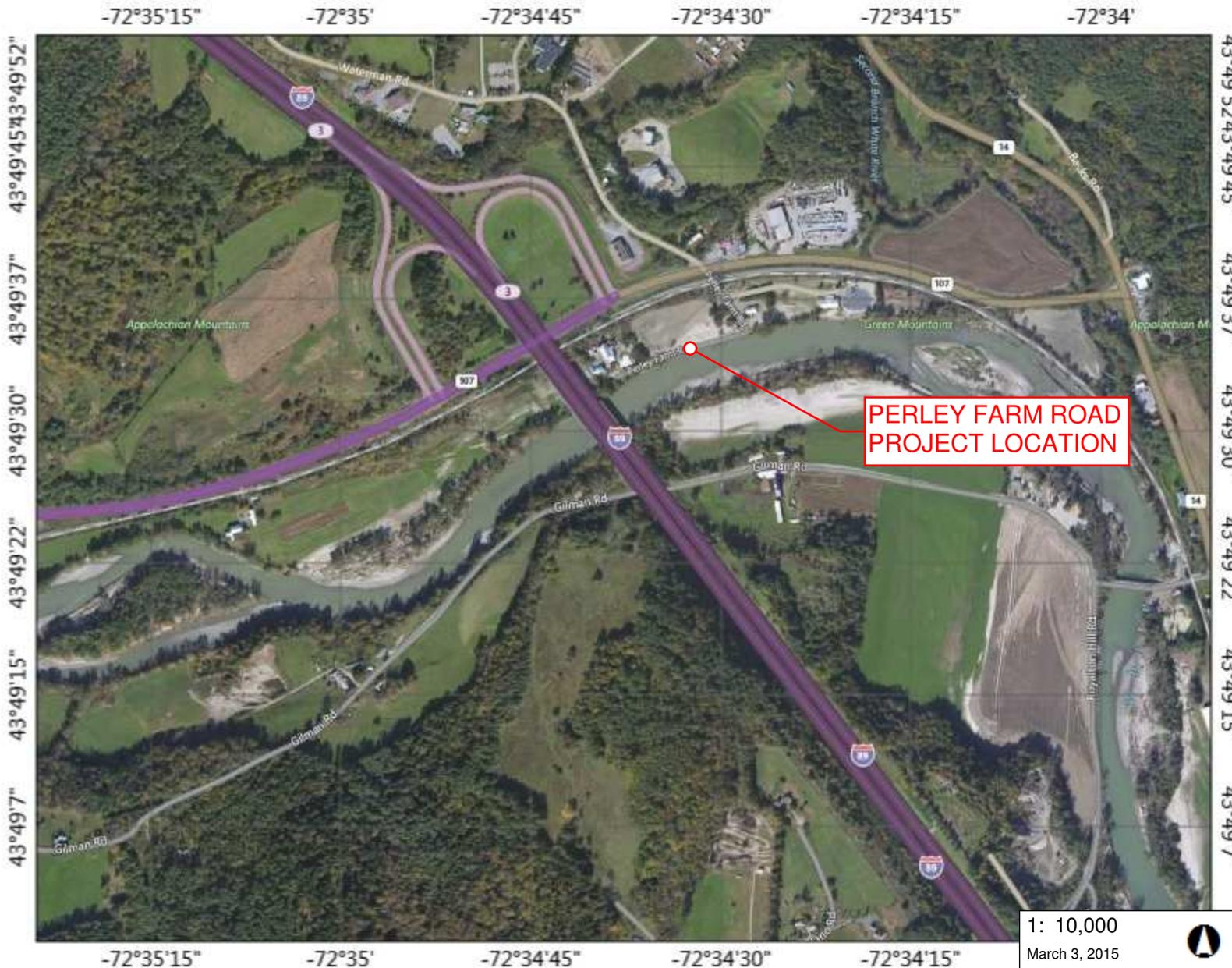
APPLICANT MUST FILE COPY OF THIS APPLICATION WITH TOWN CLERK AND ADJOINERS

CERTIFICATION: I hereby certify that the information on this application is, to the best of my knowledge, true and accurate and that I have provided a copy of this application to the Clerk of the municipality in which this activity is located, the local and regional planning commissions, and to each adjoining landowner as required in the Vermont Stream Alteration Rule. I recognize that by signing this application I am giving consent to employees of the State to enter the subject property for the purpose of processing this application and for ensuring compliance with subsequent agency decisions relating to the project.

Print Full Name Chandler Engel - DuBois & King, Inc

Applicant Signature Date 3/13/15

NOTE: A PERMIT MAY BE REQUIRED FROM THE US ARMY CORPS OF ENGINEERS. For information contact: USA Corps of Engineers, VT Project Office, 8 Carmichael Street Suite 205, Essex Jct VT 05452 802-872-2893



LEGEND

- Town Boundary

**PERLEY FARM ROAD
 PROJECT LOCATION**

1: 10,000
 March 3, 2015

NOTES

Map created using ANR's Natural Resources Atlas

1,667.0 0 834.00 1,667.0 Feet
 WGS_1984_Web_Mercator_Auxiliary_Sphere 1" = 833 Ft. 1cm = 100 Meters
 © Vermont Agency of Natural Resources THIS MAP IS NOT TO BE USED FOR NAVIGATION

DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.

TOWN OF ROYALTON, VERMONT

PERLEY FARM ROAD RECONSTRUCTION

TOWN HIGHWAY NO. 34

MARCH 13, 2015
 PERMITTING PLANS



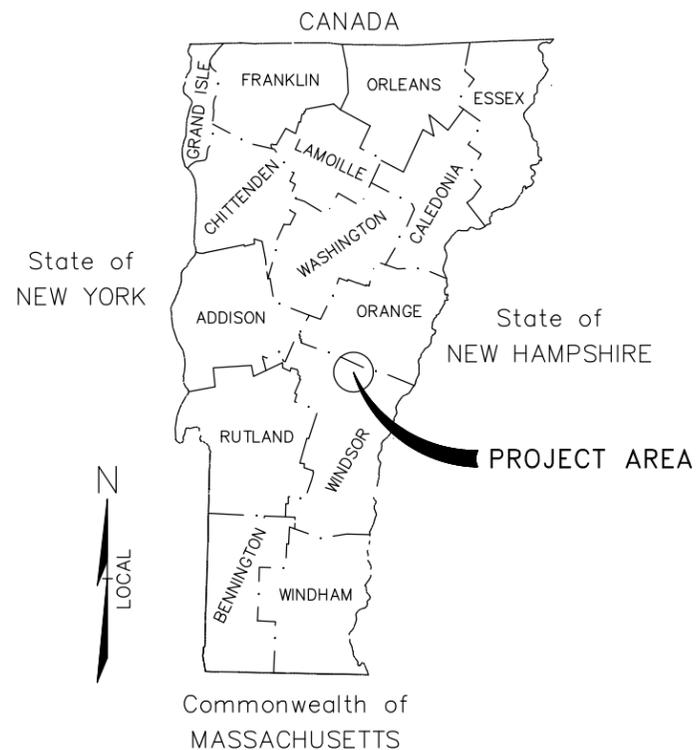
engineering
 planning
 management
 development

LIST OF DRAWINGS

SHEET NO.	TITLE
1	TITLE SHEET
2	GENERAL NOTES
3	EXISTING CONDITIONS /BASELINE LAYOUT
4	SITE PLAN
5	TYPICAL SECTION AND DETAILS
6	ROADWAY PROFILE
7	ROADWAY SECTIONS

VTRANS STANDARD DRAWINGS

NAME	DESCRIPTION	REVISION
G-1	STEEL BEAM GUARDRAIL DETAILS (POST, DELINEATOR, TYPICAL)	01/03/00
G-1D	STEEL BEAM GUARDRAIL DETAILS (END TERMINAL, ANCHOR, MEDIAN)	01/03/00
E-100	CONSTRUCTION APPROACH SIGNS	01/02/04
E-100A	SIDE ROAD CONSTRUCTION - APPROACH SIGNS	01/02/04
E-101	CONSTRUCTION SIGN DETAILS	05/30/03
E-102	CONSTRUCTION SIGN DETAILS	06/30/03
E-102A	CONSTRUCTION SIGN DETAILS	05/01/04



**NOT FOR
 CONSTRUCTION
 BID PLANS**

NO.	DATE	DESCRIPTION	BY	CK'D

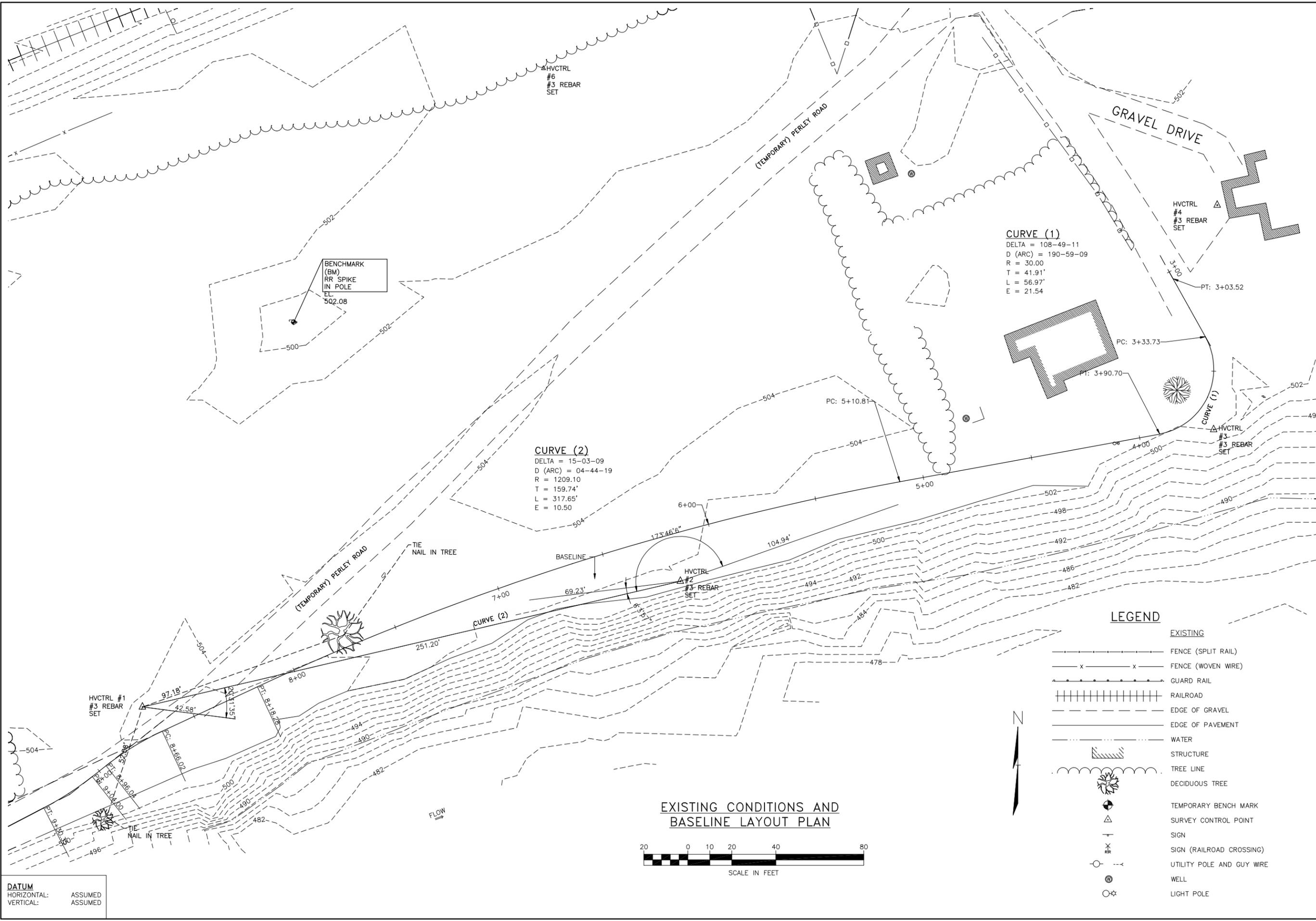
TOWN OF
 ROYALTON
 VERMONT

PERLEY FARM
 ROAD
 ROAD
 RECONSTRUCTION
 ROYALTON
 VERMONT

SHEET TITLE
 EXISTING
 CONDITIONS AND
 BASELINE LAYOUT
 PLAN

DRAWN BY A SANZ	DATE MARCH 13, 2015
CHECKED BY CSE	D&K PROJECT # 621416PB
PROJ. ENG. CSE	D&K ARCHIVE #

SHEET NUMBER
03
 SHEET 03 OF 07



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PROFESSIONAL SEAL
**NOT FOR
 CONSTRUCTION
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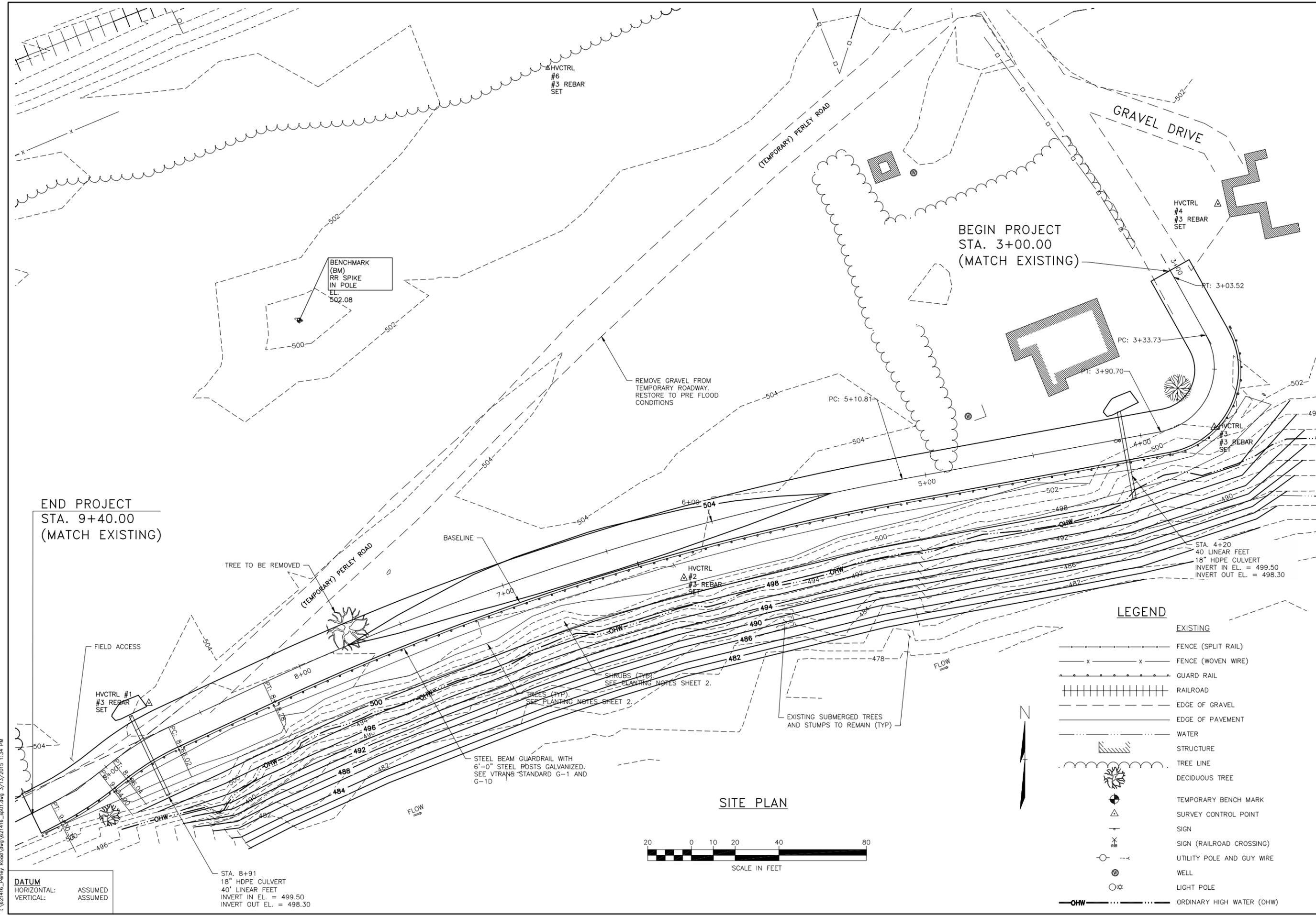
TOWN OF
 ROYALTON
 VERMONT

PERLEY FARM
 ROAD
 ROAD
 RECONSTRUCTION
 ROYALTON
 VERMONT

SHEET TITLE
 SITE PLAN

DRAWN BY A SANZ	DATE MARCH 13, 2015
CHECKED BY CSE	D&K PROJECT # 621416P8
PROJ. ENG. CSE	D&K ARCHIVE #

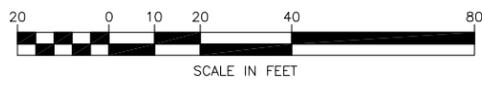
SHEET NUMBER
04
 SHEET 04 OF 07



LEGEND

- | | |
|--|-----------------------------|
| | EXISTING FENCE (SPLIT RAIL) |
| | EXISTING FENCE (WOVEN WIRE) |
| | GUARD RAIL |
| | RAILROAD |
| | EDGE OF GRAVEL |
| | EDGE OF PAVEMENT |
| | WATER |
| | STRUCTURE |
| | TREE LINE |
| | DECIDUOUS TREE |
| | TEMPORARY BENCH MARK |
| | SURVEY CONTROL POINT |
| | SIGN |
| | SIGN (RAILROAD CROSSING) |
| | UTILITY POLE AND GUY WIRE |
| | WELL |
| | LIGHT POLE |
| | ORDINARY HIGH WATER (OHW) |

SITE PLAN



DATUM
 HORIZONTAL: ASSUMED
 VERTICAL: ASSUMED

STA. 8+91
 18" HDPE CULVERT
 40' LINEAR FEET
 INVERT IN EL. = 499.50
 INVERT OUT EL. = 498.30

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PROFESSIONAL SEAL

**NOT FOR
 CONSTRUCTION
 BID PLANS**

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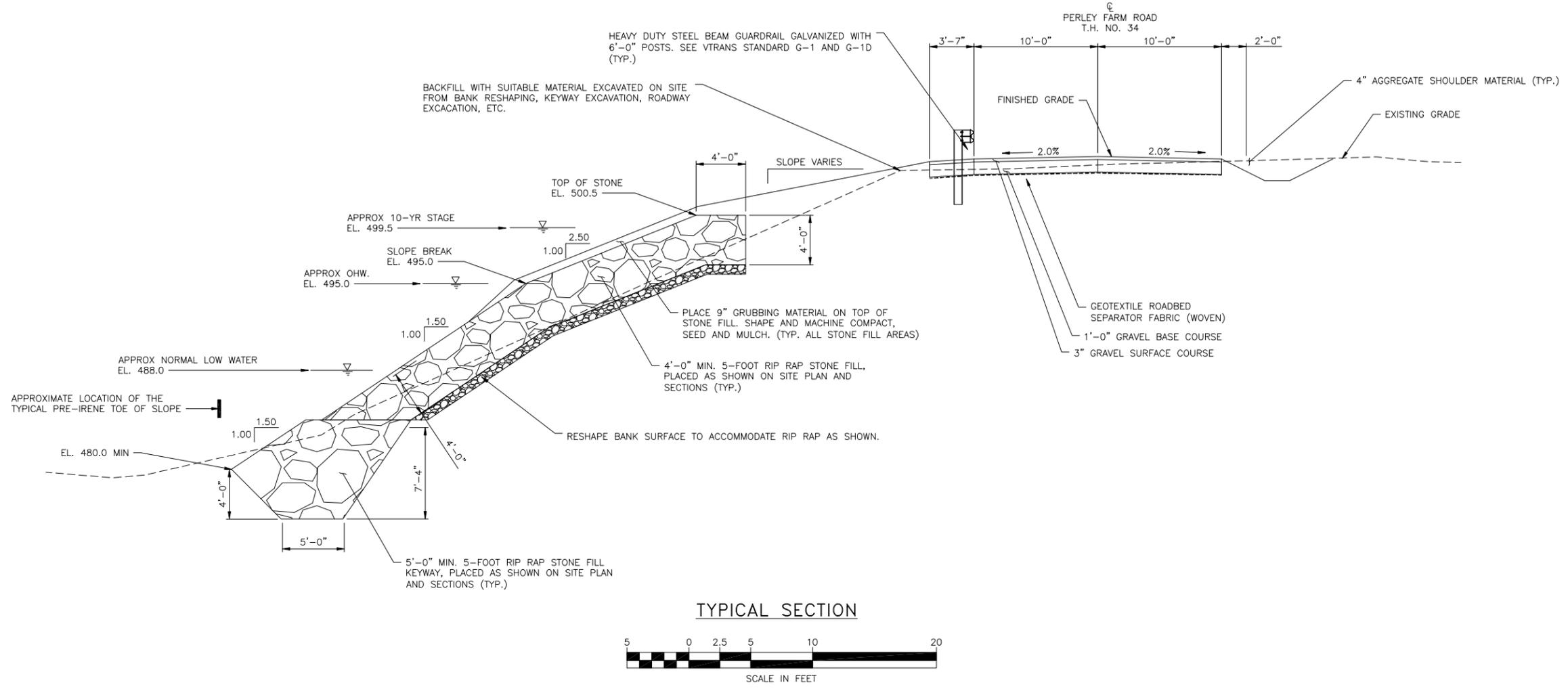
TOWN OF ROYALTON VERMONT

PERLEY FARM ROAD ROAD RECONSTRUCTION ROYALTON VERMONT

SHEET TITLE
 TYPICAL SECTION AND DETAILS

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CHECKED BY	DBK PROJECT # 621416P8
PROJ. ENG. CSE	DBK ARCHIVE #

SHEET NUMBER
05
 SHEET 05 OF 07



DATUM
 HORIZONTAL: ASSUMED
 VERTICAL: ASSUMED

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PROFESSIONAL SEAL

**NOT FOR
 CONSTRUCTION
 BID PLANS**

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TOWN OF ROYALTON VERMONT

PERLEY FARM ROAD ROAD RECONSTRUCTION ROYALTON VERMONT

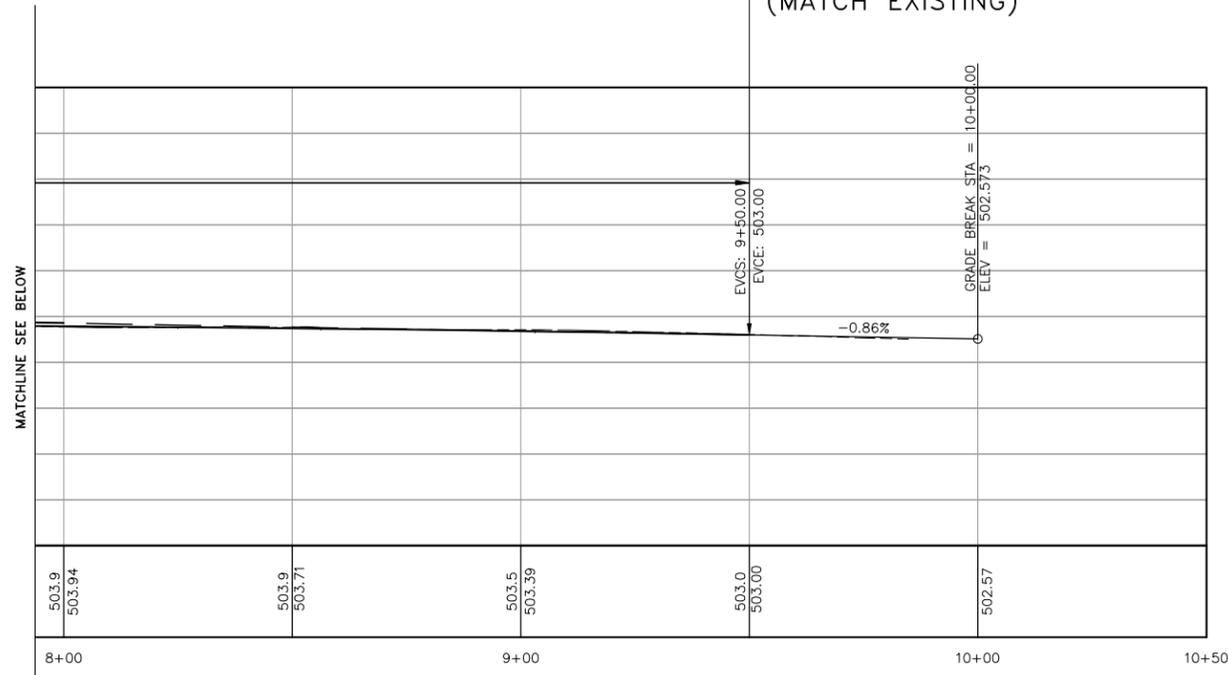
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 PROFILE

DRAWN BY A SANZ	DATE MARCH 13, 2015
CHECKED BY	D&K PROJECT # 621416P8
PROJ. ENG. CSE	D&K ARCHIVE #

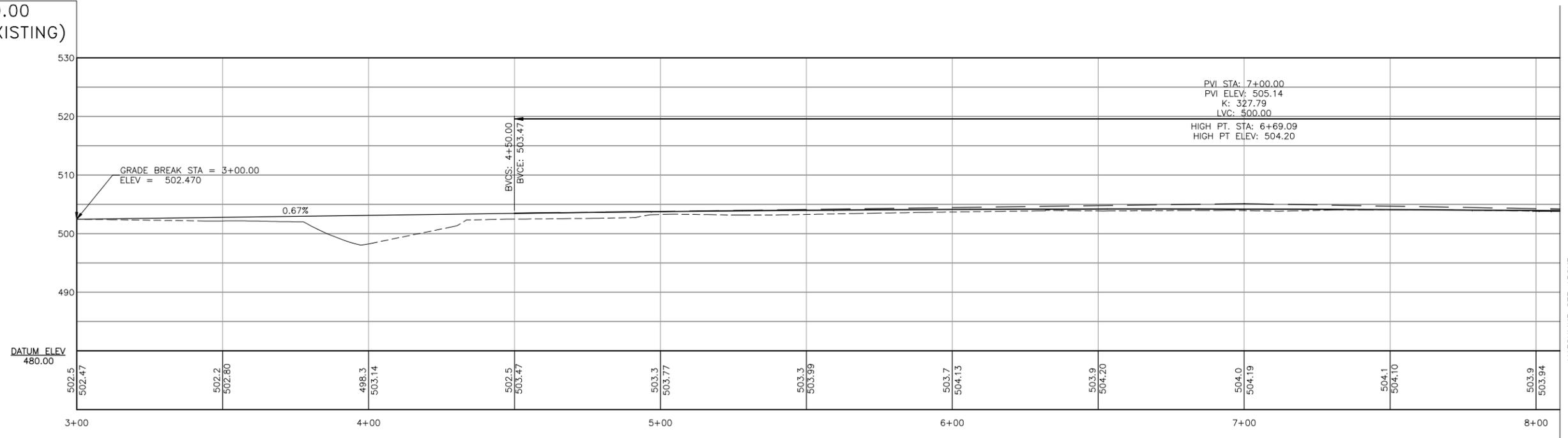
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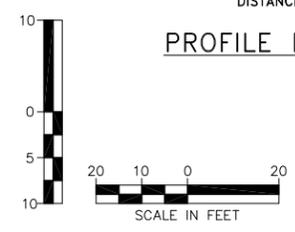
END PROJECT
 STA. 9+50.00
 (MATCH EXISTING)



BEGIN PROJECT
 STA. 3+00.00
 (MATCH EXISTING)



DISTANCE ALONG CENTERLINE (FEET)
PROFILE PERLEY FARM ROAD



DATUM
 HORIZONTAL: ASSUMED
 VERTICAL: ASSUMED

PROFESSIONAL SEAL

**NOT FOR
CONSTRUCTION
BID PLANS**

NO.	DATE	DESCRIPTION	BY	CK'D

TOWN
OF
ROYALTON
VERMONT

PERLEY FARM
ROAD
ROAD
RECONSTRUCTION
ROYALTON
VERMONT

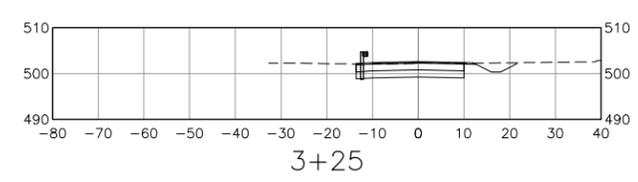
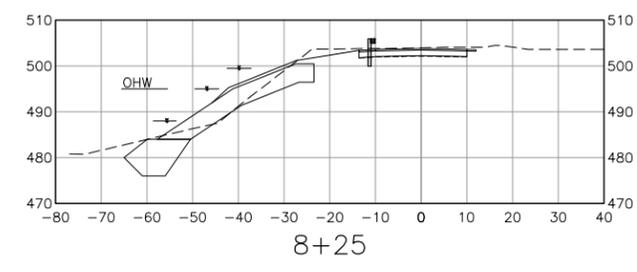
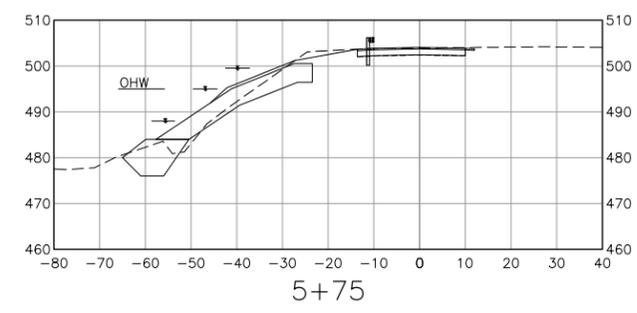
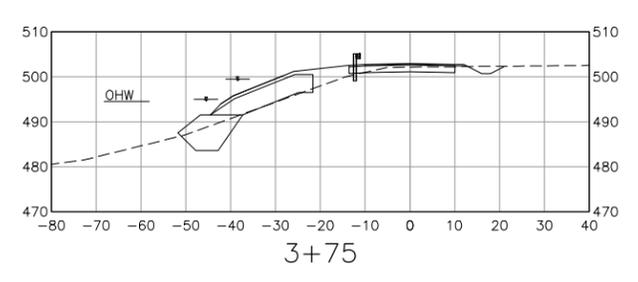
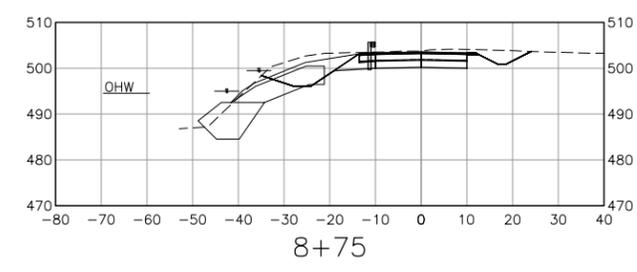
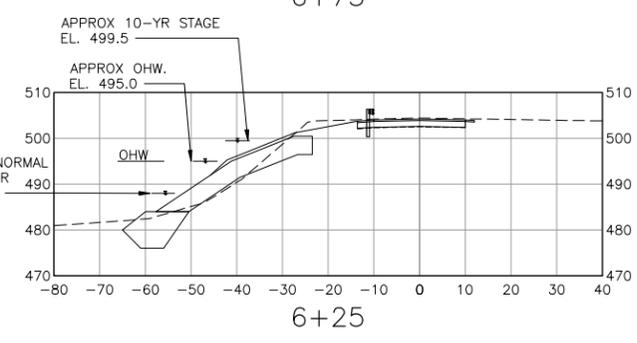
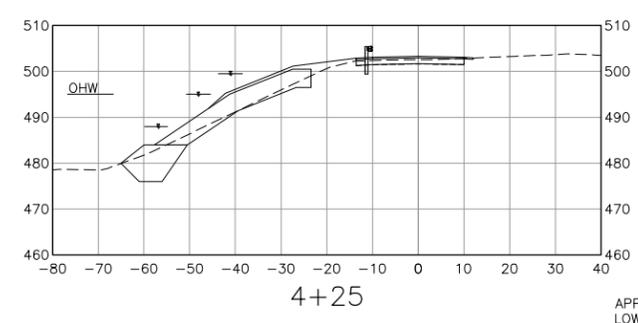
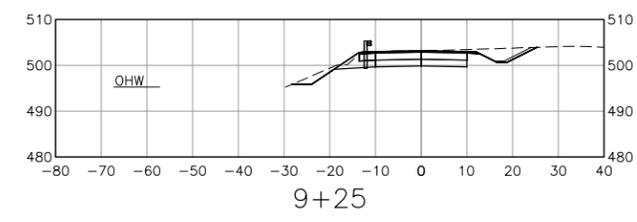
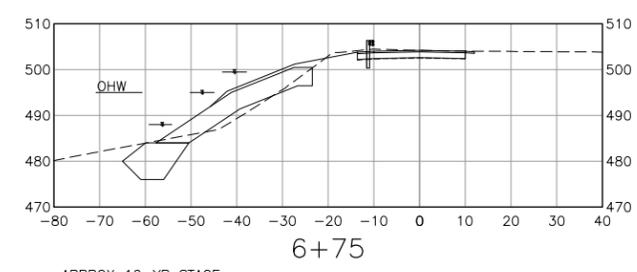
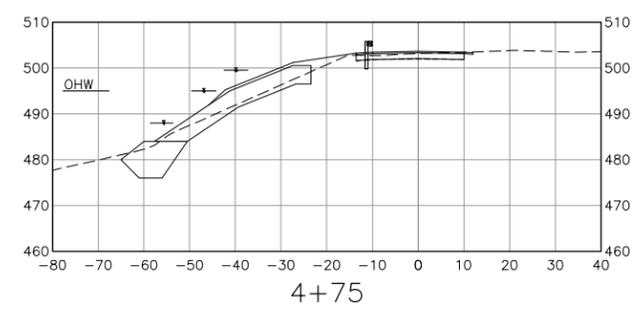
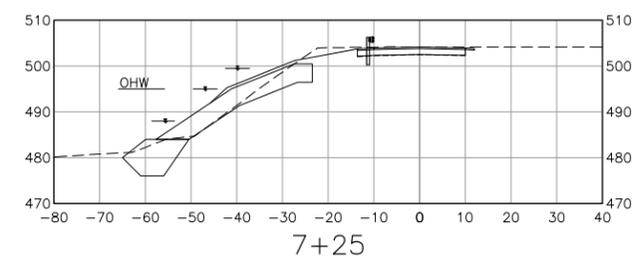
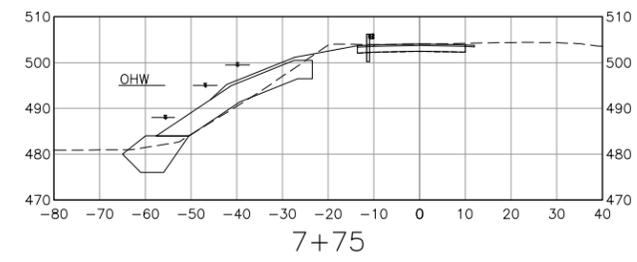
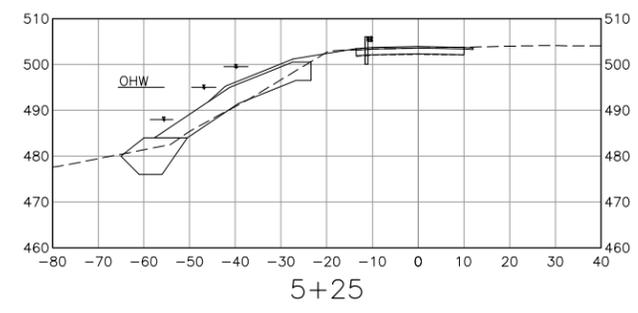
SHEET TITLE
ROADWAY CROSS
SECTIONS

DRAWN BY CSE	DATE MARCH 13, 2015
CHECKED BY	DBK PROJECT # 621416PB
PROJ. ENG. CSE	DBK ARCHIVE #

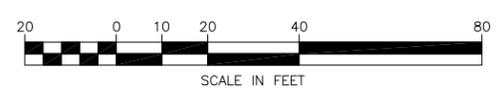
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07

SHEET 07 OF 07



ROADWAY CROSS SECTIONS



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DATUM
HORIZONTAL: ASSUMED
VERTICAL: ASSUMED