PUBLIC NOTICE

US Army Corps of Engineers ®
New England District
Vermont Project Office
8 Carmichael Street, Suite 205
Essex Junction, Vermont 05452

Comment Period Begins: March 24,2015
Comment Period Ends: April 24,2015
File Number: NAE-2006-3923
In Reply Refer To: Marty Abair
Phone: (802) 872-2893
E-mail: Martha.a.abair@usace.army.mil

The District Engineer has received a permit application to conduct work in waters of the United States as described below.

APPLICANT: Vermont Agency of Transportation, ATTN: Kenneth Upmal, One National Life Drive, Montpelier, Vermont 05633

ACTIVITY: Place fill in a total of 6.74 acres of waters of the U.S. in conjunction with the reconstruction of about 1.49 miles of U.S. Route 2 in Cabot, Vermont. A detailed description and plans of the activity are attached.

WATERWAY AND LOCATION OF THE PROPOSED WORK:
This work is proposed in Molly's Brook, Hooker Brook, several unnamed tributaries, and wetlands adjacent to these waterways off U.S. Route 2 in Cabot, Vermont (west end of project - Latitude 44.37036° N; Longitude 72.27178° W; east end of project - Latitude 44.38623° N; Longitude 72.25640° W).

AUTHORITY
Permits are required pursuant to:
____ Section 10 of the Rivers and Harbors Act of 1899
_X_ Section 404 of the Clean Water Act
____ Section 103 of the Marine Protection, Research and Sanctuaries Act).

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of

Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Where the activity involves the discharge of dredged or fill material into waters of the United States or the transportation of dredged material for the purpose of disposing it in ocean waters, the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act, and/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972 as amended.

NATIONAL HISTORIC PRESERVATION ACT
Based on his initial review, the District Engineer has determined that the proposed work may impact properties listed in, or eligible for listing in, the National Register of Historic Places. Additional review and consultation to fulfil requirements under Section 106 of the National Historic Preservation Act of 1966, as amended, will be ongoing as part of the permit review process.

ENDANGERED SPECIES CONSULTATION
The New England District, Army Corps of Engineers has reviewed the list of species protected under the Endangered Species Act of 1973, as amended, which might occur at the project site. It is our preliminary determination that the proposed activity for which authorization is being sought is designed, situated or will be operated/used in such a manner that it is not likely to adversely affect any Federally listed endangered or threatened species or their designated critical habitat. By this Public Notice, we are requesting that the appropriate Federal Agency concur with our determination.

The following authorizations have been applied for, or have been, or will be obtained:
(X) Permit, License or Assent from State.
( ) Permit from Local Wetland Agency or Conservation Commission.
(X) Water Quality Certification in accordance with Section 401 of the Clean Water Act.

In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. **Comments should be submitted in writing by the above date.** If you have any questions, please contact Marty Abair at (978) 318-8484 or (802) 872-2893.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The Corps holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

The initial determinations made herein will be reviewed in light of facts submitted in response to this notice.

All comments will be considered a matter of public record. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.

Michael C. Hicks
for **Frank J. DelGiudice**
Chief, Permits and Enforcement Branch
Regulatory Division

If you would prefer not to continue receiving Public Notices by email, please contact Ms. Tina Chaisson at (978) 318-8058 or e-mail her at bettina.m.chaisson@usace.army.mil. You may also check here ( ) and return this portion of the Public Notice to: Bettina Chaisson, Regulatory Division, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742-2751.

NAME: _____
ADDRESS: _____
PHONE: _____

PROPOSED WORK AND PURPOSE

The work includes the discharge of dredged or fill material for the reconstruction of about 1.49 miles of U.S. Route 2 in Cabot, Vermont. New bridged crossings of Molly's Brook and Hookers Brook, and new culverted crossings of five unnamed tributaries will impact a total of 0.09 acre of stream bottom below Ordinary High Water (0.086 acre permanent impact/0.009 acre temporary impact). The typical existing roadway cross-section is 22' (0-11-11-0). Widening the road to standard National Highway System width of 40' (8-12-12-8) and minor alignment improvements to improve the geometry and safety of the road will impact a total of 6.64 acres of scrub-shrub, forested and emergent wetlands (6.01 acres permanent impact/0.63 acre temporary impact).

The basic purpose of the project is to reconstruct an existing U.S. highway to comply with current safety and design standards.

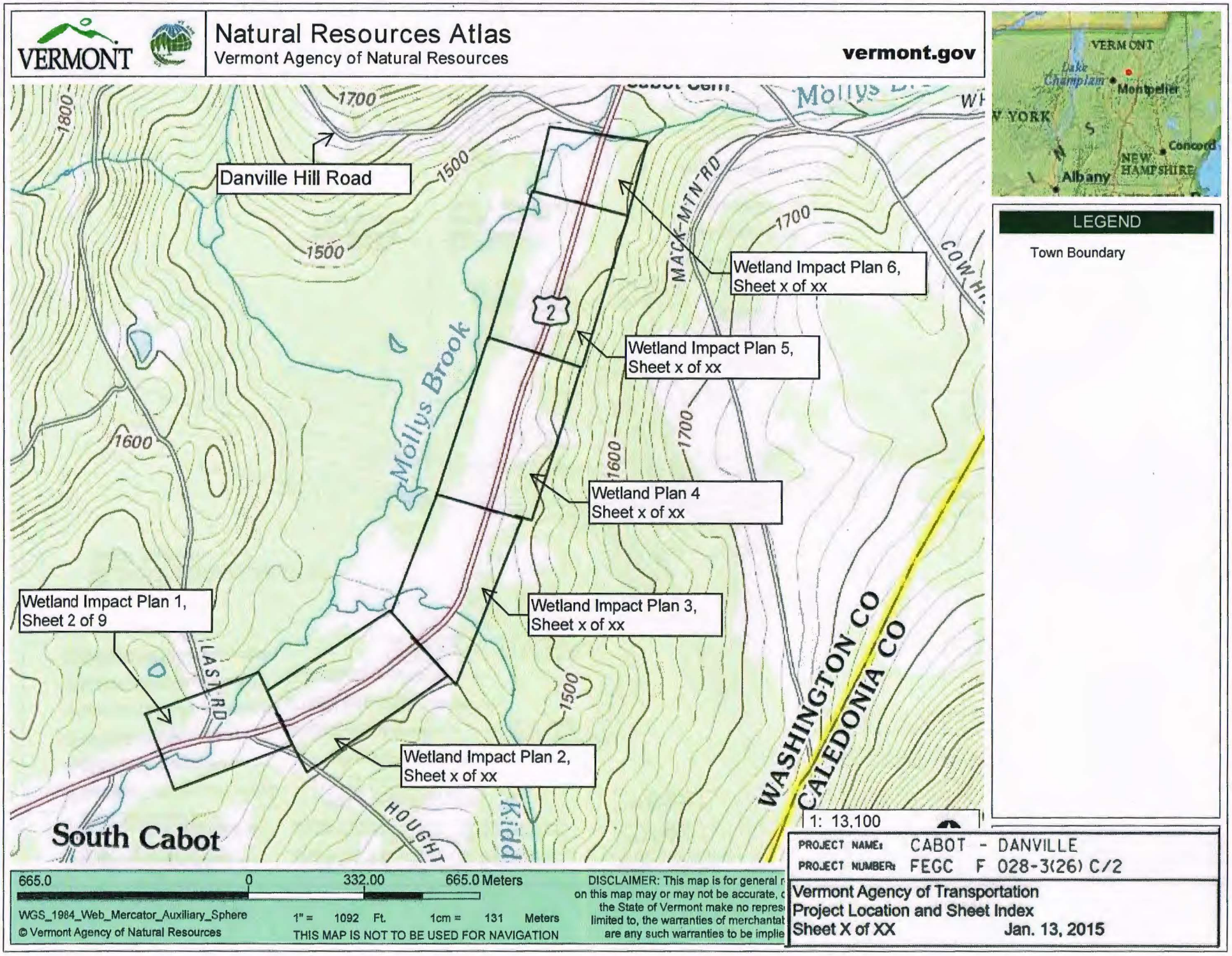
The work is described on the enclosed plans, in nine sheets, entitled "CABOT – DANVILLE FEGC F 028-3(26) C/2", dated "Jan. 13, 2015".

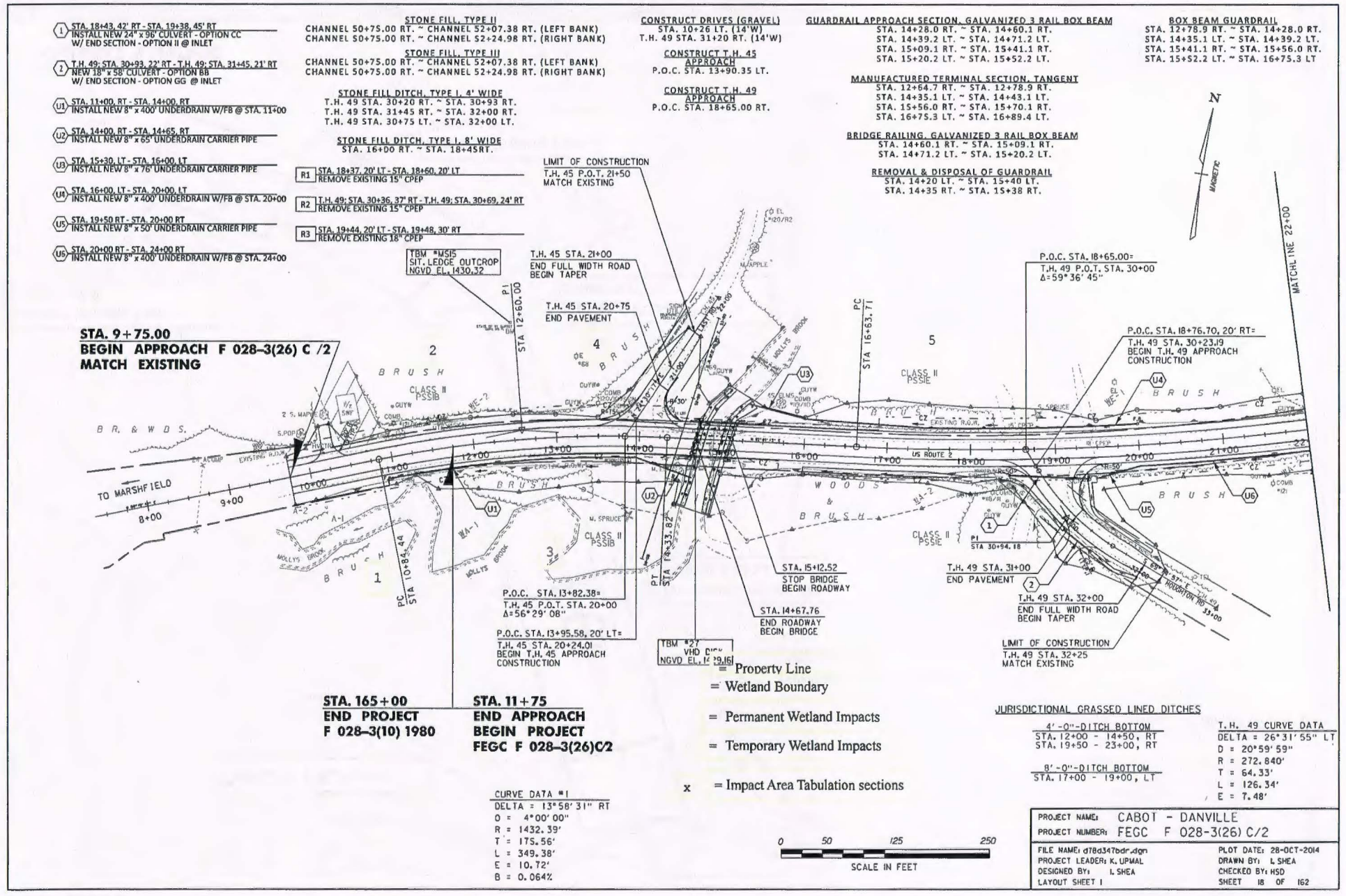
ALTERNATIVES

The project involves the reconstruction of an existing U.S. highway, essentially on existing alignment. Off-site alternatives would involve constructing a new highway on new alignment, which would likely be more environmentally damaging and is not practicable. There is no less environmentally damaging practicable alternative alignment that would accomplish the basic project purpose. The only alternative to the project would be the "no build" alternative, which would not allow the applicants to achieve their stated project purpose.

MITIGATION

To compensate for unavoidable impacts to waters of the U.S. of the proposed project the applicant proposes to make a payment to the Ducks Unlimited – Vermont In-Lieu Fee Program.

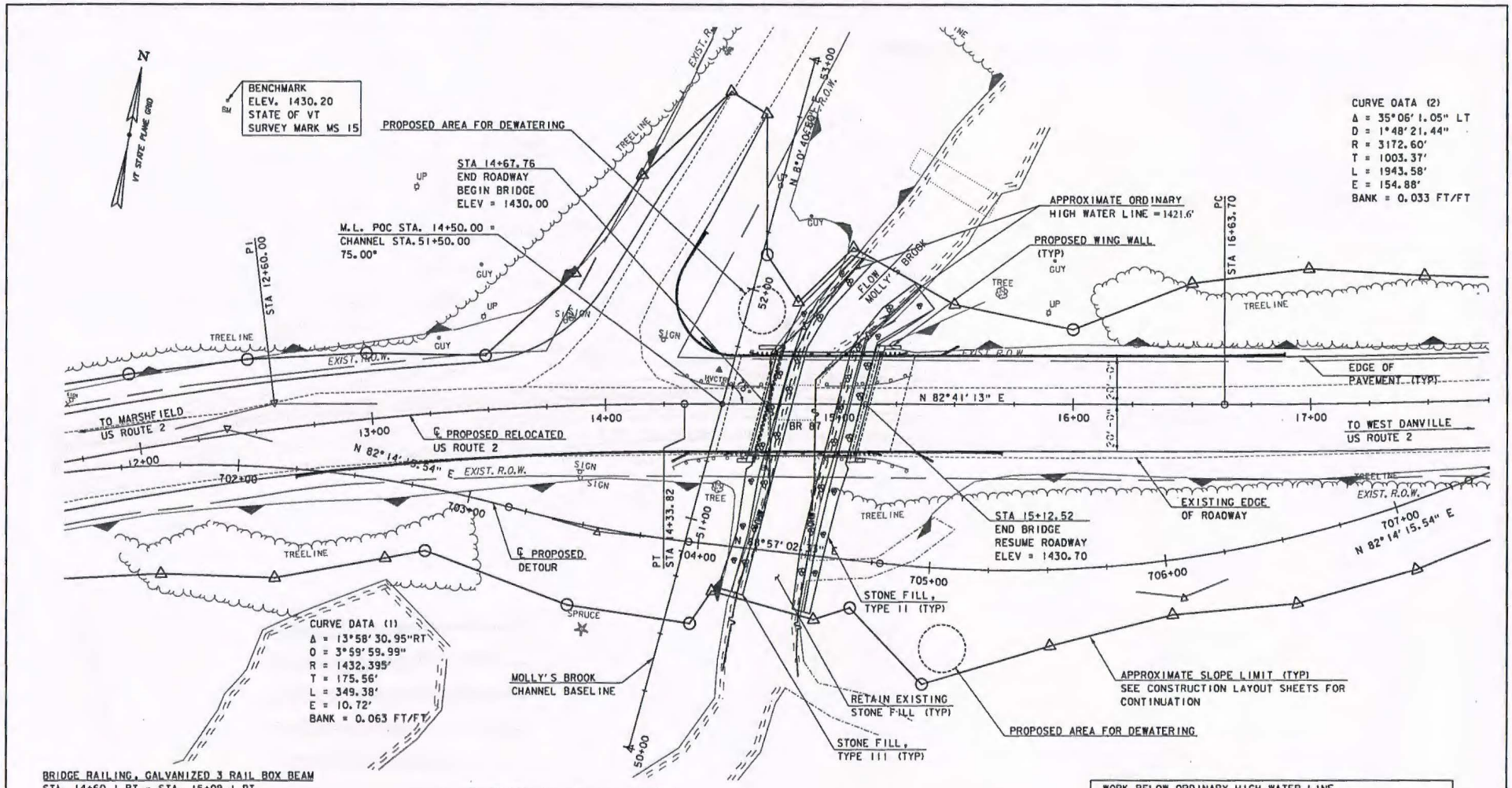

VERMONT
Natural Resources Atlas
Vermont Agency of Natural Resources
vermont.gov
Danville Hill Road
Wetland Impact Plan 6, Sheet x of xx
Wetland Impact Plan 5, Sheet x of xx
Wetland Plan 4 Sheet x of xx
Wetland Impact Plan 3, Sheet x of xx
Wetland Impact Plan 1, Sheet 2 of 9
Wetland Impact Plan 2, Sheet x of xx
Mollys Brook
MACK MTN RD
LAST RD
HOUGHT
WASHINGTON CO
CALEDONIA CO
South Cabot
1700
1800
1500
1600
2
VERMONT
Lake Champlain
Montpelier
NEW HAMPSHIRE
Concord
Albany
LEGEND
Town Boundary
1: 13,100
665.0 0 332.00 665.0 Meters
WGS_1984_Web_Mercator_Auxiliary_Sphere
1" = 1092 Ft. 1cm = 131 Meters
© Vermont Agency of Natural Resources
THIS MAP IS NOT TO BE USED FOR NAVIGATION
DISCLAIMER: This map is for general r
on this map may or may not be accurate, c
the State of Vermont make no repres
limited to, the warranties of merchantat
are any such warranties to be implie
PROJECT NAME: CABOT - DANVILLE
PROJECT NUMBER: FEGC F 028-3(26) C/2
Vermont Agency of Transportation
Project Location and Sheet Index
Sheet X of XX
Jan. 13, 2015



PROJECT NAME: CABOT - DANVILLE
PROJECT NUMBER: FEGC F 028-3(26) C/2

FILE NAME: d78d347bdr.dgn
PROJECT LEADER: K. UPMAL
DESIGNED BY: L. SHEA
LAYOUT SHEET 1

PLOT DATE: 28-OCT-2014
DRAWN BY: L. SHEA
CHECKED BY: HSD
SHEET 18 OF 162



BRIDGE RAILING, GALVANIZED 3 RAIL BOX BEAM
STA. 14+60.1 RT - STA. 15+09.1 RT
STA. 14+71.2 LT - STA. 15+20.2 LT

STONE FILL, TYPE II
STA. 50+75.00 RT - STA. 52+07.38 RT (LEFT BANK)
STA. 50+75.00 RT - STA. 52+24.98 RT (RIGHT BANK)

STONE FILL, TYPE III
STA. 50+75.00 RT - STA. 52+07.38 RT (LEFT BANK)
STA. 50+75.00 RT - STA. 52+24.98 RT (RIGHT BANK)

BOX BEAM GUARDRAIL
STA. 12+78.9 RT - STA. 14+28.0 RT
STA. 14+35.1 LT - STA. 14+39.2 LT
STA. 15+41.1 RT - STA. 15+56.0 RT
STA. 15+52.2 LT - STA. 16+75.3 LT

MANUFACTURED TERMINAL SECTION, TANGENT
STA. 12+64.7 RT - STA. 12+78.9 RT
STA. 14+35.1 LT - STA. 14+43.1 LT
STA. 15+56.0 RT - STA. 15+70.1 RT
STA. 16+75.3 LT - STA. 16+89.4 LT

GUARDRAIL APPROACH SECTION, GALVANIZED 3 RAIL BOX BEAM
STA. 14+28.0 RT - STA. 14+60.1 RT
STA. 14+39.2 LT - STA. 14+71.2 LT
STA. 15+09.1 RT - STA. 15+41.1 RT
STA. 15+20.2 LT - STA. 15+52.2 LT

NOTE: REFER TO CONSTRUCTION LAYOUT SHEET 16 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

= PERMANENT WETLAND IMPACTS

= TEMPORARY WETLAND IMPACTS

WORK BELOW ORDINARY HIGH WATER LINE
APPROXIMATE AREA OF DISTURBANCE = 985± SF (110± SY)
APPROXIMATE VOLUME OF CUT = 9617± CF (356± CY)
APPROXIMATE VOLUME OF FILL = 8636± CF (320± CY)
APPROXIMATE TOTAL CUT = 981± CF (36± CY)

R. 11/24/14

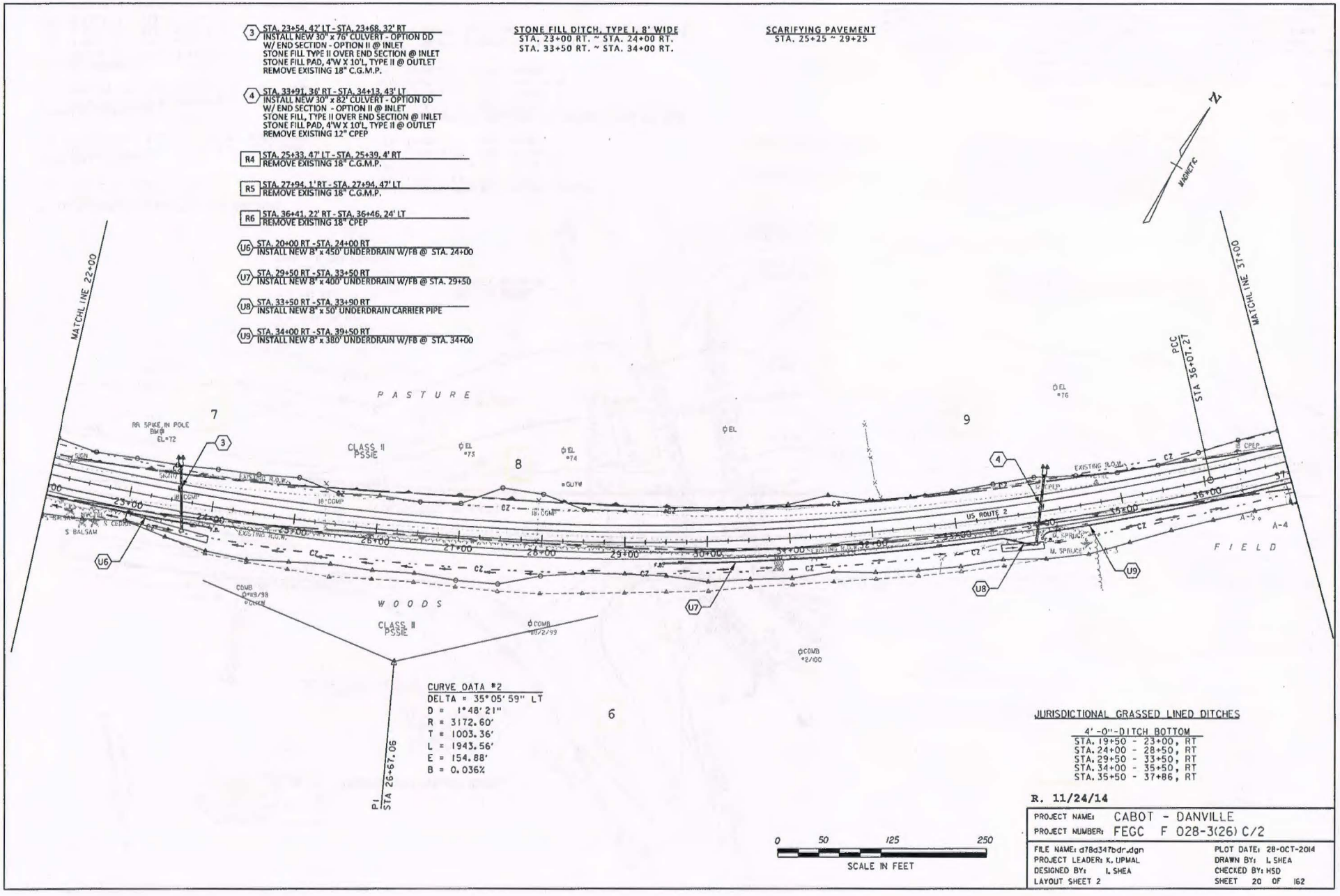
0 20 40
SCALE IN FEET

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

PROJECT NAME: CABOT - DANVILLE
PROJECT NUMBER: FEGC F 028-3(26) C/2

FILE NAME: z78d347bdr2.dgn
PROJECT LEADER: M. CRUZ
DESIGNED BY: A. ACHARYA
LAYOUT SHEET (BR 87)

PLOT DATE: 6/24/2014
DRAWN BY: D. VERTIYEV
CHECKED BY: E. ATKINS
SHEET 79 OF 158



JURISDICTIONAL GRASSED LINED DITCHES

4'-0" DITCH BOTTOM

STA. 19+50 - 23+00, RT
STA. 24+00 - 28+50, RT
STA. 29+50 - 33+50, RT
STA. 34+00 - 35+50, RT
STA. 35+50 - 37+86, RT

R. 11/24/14

PROJECT NAME: CABOT - DANVILLE
PROJECT NUMBER: FEGC F 028-3(26) C/2

FILE NAME: d78d347bdr.dgn
PROJECT LEADER: K. UPMAL
DESIGNED BY: L. SHEA
LAYOUT SHEET 2

PLOT DATE: 28-OCT-2014
DRAWN BY: L. SHEA
CHECKED BY: HSD
SHEET 20 OF 162

RELOCATE MAILBOX, SINGLE SUPPORT
STA. 47+62 RT.

SCARIFYING PAVEMENT
STA. 49+25 ~ 50+75

REMOVAL & DISPOSAL OF GUARDRAIL
STA. 41+18 RT. ~ STA. 41+88 RT.
STA. 41+36 RT. ~ STA. 41+92 RT.

GUARDRAIL APPROACH SECTION, GALVANIZED 3 RAIL BOX BEAM
STA. 40+77.1 LT. ~ STA. 41+09.4 LT.
STA. 41+02.3 RT. ~ STA. 41+34.0 RT.
STA. 41+62.0 LT. ~ STA. 41+94.3 LT.
STA. 41+85.7 RT. ~ STA. 42+17.4 RT.

MANUFACTURED TERMINAL SECTION, TANGENT
STA. 39+72.5 RT. ~ STA. 39+86.6 RT.
STA. 40+47.9 LT. ~ STA. 40+61.9 LT.
STA. 42+65.4 RT. ~ STA. 42+57.6 RT.
STA. 43+12.3 LT. ~ STA. 43+26.4 LT.

BRIDGE RAILING, GALVANIZED 3 RAIL BOX BEAM
STA. 41+09.4 LT. ~ STA. 41+62.0 LT.
STA. 41+34.0 RT. ~ STA. 41+85.7 RT.

BOX BEAM GUARDRAIL
STA. 39+86.4 RT. ~ STA. 41+02.3 RT.
STA. 40+61.9 LT. ~ STA. 40+77.1 LT.
STA. 41+94.3 LT. ~ STA. 43+12.3 LT.
STA. 42+17.4 RT. ~ STA. 42+65.4 RT.

STONE FILL DITCH, TYPE I, 8' WIDE
STA. 40+00 RT. ~ STA. 41+00 RT.

STONE FILL, TYPE II
CHANNEL 10+92.1 RT ~ CHANNEL 11+48.7 RT (LEFT BANK)
CHANNEL 10+76.5 RT ~ CHANNEL 11+35.9 RT (RIGHT BANK)

CONSTRUCT CATTLE CROSSING
STA. 40+49, 170' LT. ~ STA. 40+71, 194' LT.
(SEE SHEET #7)

CONSTRUCT DRIVES (GRAVEL)

LT.
STA. 44+75 (24'W)

RT.
STA. 39+22 (16'W.)ASKEWED 80°12'00" LT.
STA. 45+11 (14'W.)ASKEWED 79°00'00" RT.
STA. 48+00 (14'W.)ASKEWED 74°22'50" LT.
STA. 48+36 (12'W.)ASKEWED 69°50'00" LT.
STA. 51+92 (16'W)

CONSTRUCT T.H. 47 TRAIL #6 (GRAVEL)
STA. 42+74 RT. (12.5'W)

5 STA. 37+79.34' RT - STA. 37+91.34' LT
INSTALL NEW 18" x 70' CULVERT - OPTION AA
W/ END SECTION - OPTION GG @ INLET
STONE FILL PAD, 3'W x 6'L, TYPE I @ OUTLET
REMOVE EXISTING 12" R.C.P.

6 STA. 43+75.110' LT - STA. 44+10.142' LT
INSTALL NEW 18" x 52' CULVERT - OPTION AA

7 STA. 44+88.51' RT - STA. 45+47.42' RT
INSTALL NEW 18" x 62' CULVERT - OPTION BB
STONE FILL PAD, 3'W x 5'L, TYPE I @ OUTLET

8 STA. 48+05.39' RT - STA. 48+43.44' RT
INSTALL NEW 18" x 38' CULVERT - OPTION BB

9 STA. 49+15.42' RT - STA. 51+01.59' LT
INSTALL NEW 18" x 212' CULVERT - OPTION AA
W/ END SECTION - OPTION GG @ INLET

10 STA. 51+00.40' RT - STA. 51+03.58' LT
INSTALL NEW 30" x 98' CULVERT - OPTION EE
W/ END SECTION - OPTION JJ @ INLET
9' x 250' DITCH @ OUTLET
(LINE FIRST 10' W/ TYPE II STONE FILL)
FOLLOWED BY 6' x 450' DITCH TO MOLLY'S BROOK
REMOVE EXISTING 18" C.G.M.P.

U9 STA. 34+00 RT - STA. 39+50 RT
INSTALL NEW 8" x 380' UNDERDRAIN W/FB @ STA. 34+00

U10 STA. 39+50 RT - STA. 40+50 RT
INSTALL NEW 8" x 270' UNDERDRAIN CARRIER PIPE

U11 STA. 45+50 RT - STA. 45+75 RT
INSTALL NEW 8" x 250' UNDERDRAIN CARRIER PIPE

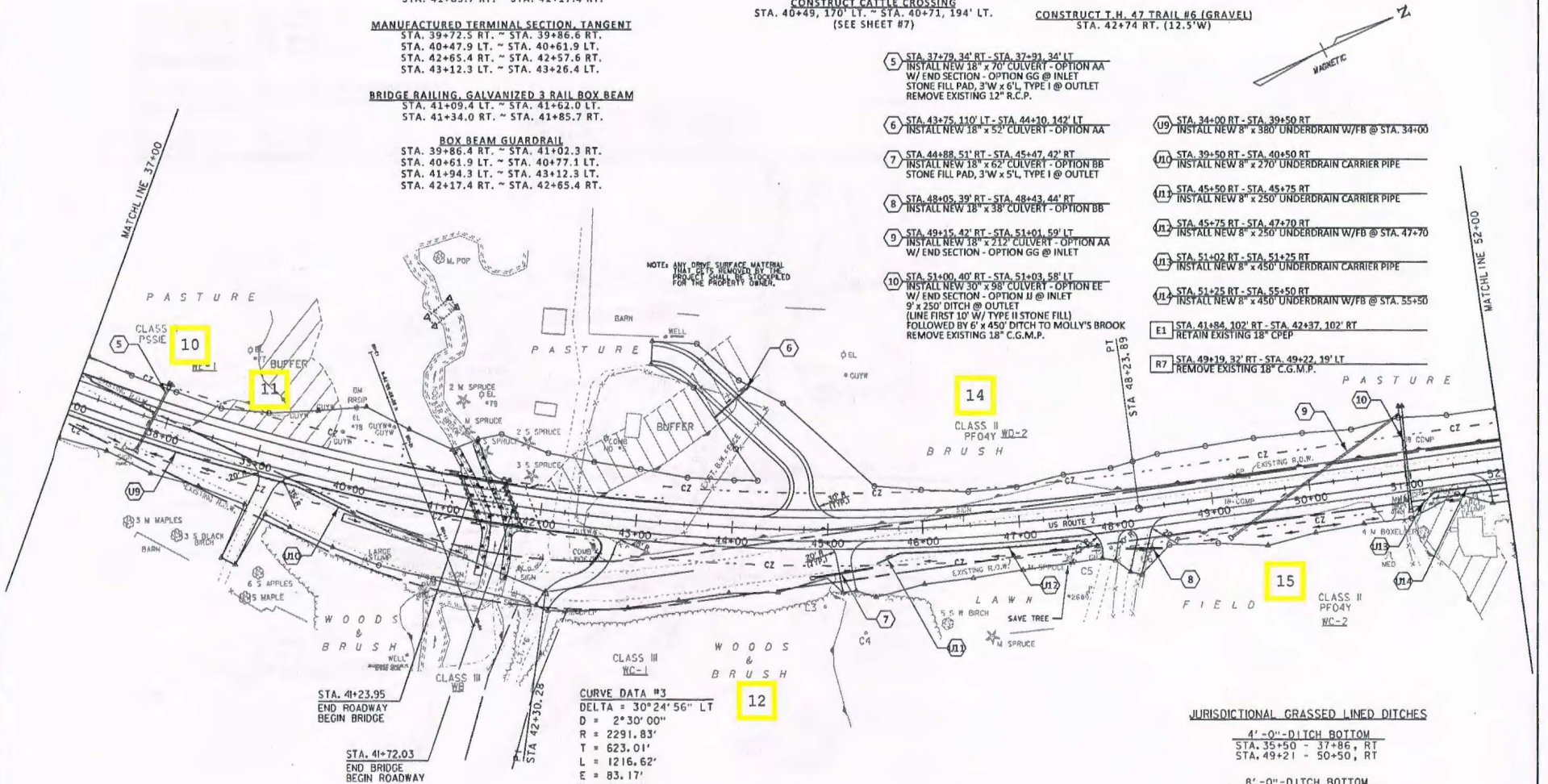
U12 STA. 45+75 RT - STA. 47+70 RT
INSTALL NEW 8" x 250' UNDERDRAIN W/FB @ STA. 47+70

U13 STA. 51+02 RT - STA. 51+25 RT
INSTALL NEW 8" x 450' UNDERDRAIN CARRIER PIPE

U14 STA. 51+25 RT - STA. 55+50 RT
INSTALL NEW 8" x 450' UNDERDRAIN W/FB @ STA. 55+50

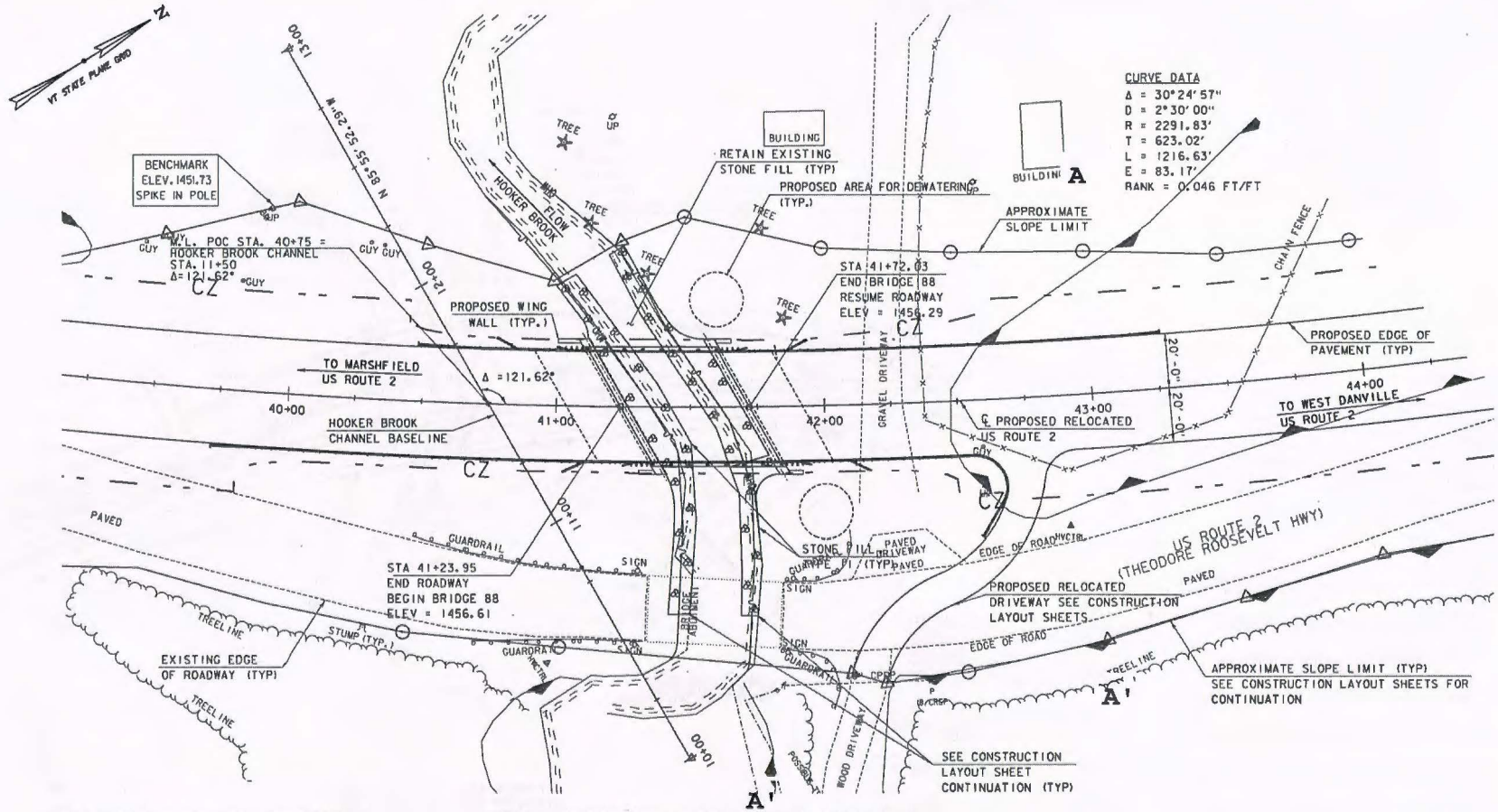
E1 STA. 41+84. 102' RT - STA. 42+37. 102' RT
RETAIN EXISTING 18" CPEP

R7 STA. 49+19. 32' RT - STA. 49+22. 19' LT
REMOVE EXISTING 18" C.G.M.P.



R. 11/24.14

PROJECT NAME:	CABOT - DANVILLE
PROJECT NUMBER:	FEGC F 028-3(26) C/2
FILE NAME: d78d347bdr.dgn	PLOT DATE: 28-OCT-2014
PROJECT LEADER: K. UPMAL	DRAWN BY: L SHEA
DESIGNED BY: L SHEA	CHECKED BY: HSD
LAYOUT SHEET 3	SHEET 22 OF 162



BRIDGE RAILING, GALVANIZED 3 RAIL BOX BEAM
STA. 41+09.4 LT - STA. 41+62.0 LT
STA. 41+34.0 RT - STA. 41+85.7 RT

STONE FILL, TYPE II
STA. 10+92.1 RT - STA. 11+48.7 RT (LEFT BANK)
STA. 10+76.5 RT - STA. 11+35.9 RT (RIGHT BANK)

BOX BEAM GUARDRAIL
STA. 39+86.4 RT - STA. 41+02.3 RT
STA. 40+61.9 LT - STA. 40+77.1 LT
STA. 41+94.3 LT - STA. 43+12.3 LT
STA. 42+17.4 RT - STA. 42+65.4 RT

MANUFACTURED TERMINAL SECTION, TANGENT
STA. 39+72.5 RT - STA. 39+86.6 RT
STA. 40+47.9 LT - STA. 40+61.9 LT
STA. 42+65.4 RT - STA. 42+57.6 RT
STA. 43+12.3 LT - STA. 43+26.4 LT

GUARDRAIL APPROACH SECTION, GALVANIZED 3 RAIL BOX BEAM
STA. 40+77.1 LT - STA. 41+09.4 LT
STA. 41+02.3 RT - STA. 41+34.0 RT
STA. 41+62.0 LT - STA. 41+94.3 LT
STA. 41+85.7 RT - STA. 42+17.4 RT

= PERMANENT WETLAND IMPACT

WORK BELOW ORDINARY HIGH WATER LINE
APPROXIMATE AREA OF DISTURBANCE = 1525± SF (170± SY)
APPROXIMATE VOLUME OF CUT = 3956± CF (147± CY)
APPROXIMATE VOLUME OF FILL = 3824± CF (142± CY)
APPROXIMATE TOTAL CUT = 132± CF (5± CY)

NOTE:
REFER TO CONSTRUCTION LAYOUT SHEET 20 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

0 20 40
SCALE IN FEET

GREEN INTERNATIONAL AFFILIATES, INC.
CIVIL AND STRUCTURAL ENGINEERS

R. 11/24/14

PROJECT NAME: CABOT - DANVILLE
PROJECT NUMBER: FEGC F 028-3(26) C/2

FILE NAME: z78d34Tbdrl.dgn
PROJECT LEADER: M. CRUZ
DESIGNED BY: D. VERTIYEV
LAYOUT SHEET (BR 88)

PLOT DATE: 6/24/2014
DRAWN BY: D. VERTIYEV
CHECKED BY: E. ATKINS
SHEET 101 OF 158

(11) STA. 56+06. 50' RT - STA. 56+69. 54' RT
INSTALL NEW 18" x 64' CULVERT - OPTION BB
REMOVE EXISTING 18" CPEP

(12) STA. 57+31. 49' LT - STA. 57+40. 46' RT
INSTALL NEW 30" x 90' CULVERT - OPTION DD
W/ END SECTION - OPTION II @ INLET
STONE FILL PAD, 4'W x 10'L TYPE II @ OUTLET
REMOVE EXISTING 18" C.G.M.P.

(12A) STA. 58+00. 47' RT - STA. 58+00. 131' RT
INSTALL NEW 12" x 84' CULVERT - CPEP
W/ END SECTION @ INLET
STONE FILL PAD, 4'W x 10'L TYPE I @ OUTLET

(12B) STA. 58+18. 136' RT - STA. 58+86. 137' RT
INSTALL NEW 12" x 68' CULVERT - CPEP

(13) STA. 62+24. 35' RT - STA. 62+27. 58' LT
INSTALL NEW 30" x 94' CULVERT - OPTION DD
W/ P.R.C.C.B., TYPE B GRATES @ INLET
STONE FILL PAD, 4'W x 10'L TYPE II @ OUTLET
REMOVE EXISTING 18" C.G.M.P.

(14) STA. 66+73. 39' RT - STA. 67+20. 45' RT
INSTALL NEW 18" x 54' CULVERT - OPTION BB
REMOVE EXISTING 18" CPEP

(J14) STA. 51+25 RT - STA. 55+50 RT
INSTALL NEW 8" x 425' UNDERDRAIN W/FB @ STA. 55+50

(J13) STA. 57+50. RT - STA. 58+00. RT
INSTALL NEW 8" x 54' UNDERDRAIN CARRIER PIPE

(J15) STA. 58+00 RT - STA. 62+00 RT
INSTALL NEW 8" x 400' UNDERDRAIN W/FB @ STA. 62+00

(J11) STA. 62+25 RT - STA. 62+50 RT
INSTALL NEW 8" x 26' UNDERDRAIN CARRIER PIPE

(J16) STA. 62+50 RT - STA. 66+00 RT
INSTALL NEW 8" x 400' UNDERDRAIN W/FB @ STA. 66+00

(TYPE II) STONE FILL (SLOPE STABILIZATION)
STA. 63+50 RT. ~ 66+50 RT.

STONE FILL DITCH, TYPE I, 8' WIDE
STA. 57+00 RT. ~ STA. 58+00 RT.

RELOCATE MAILBOX, SINGLE SUPPORT
STA. 56+20 RT.
STA. 60+07 RT.

R8 STA. 60+00. 3' RT - STA. 60+51. 0.3' RT
REMOVE EXISTING 12" C.G.M.P.

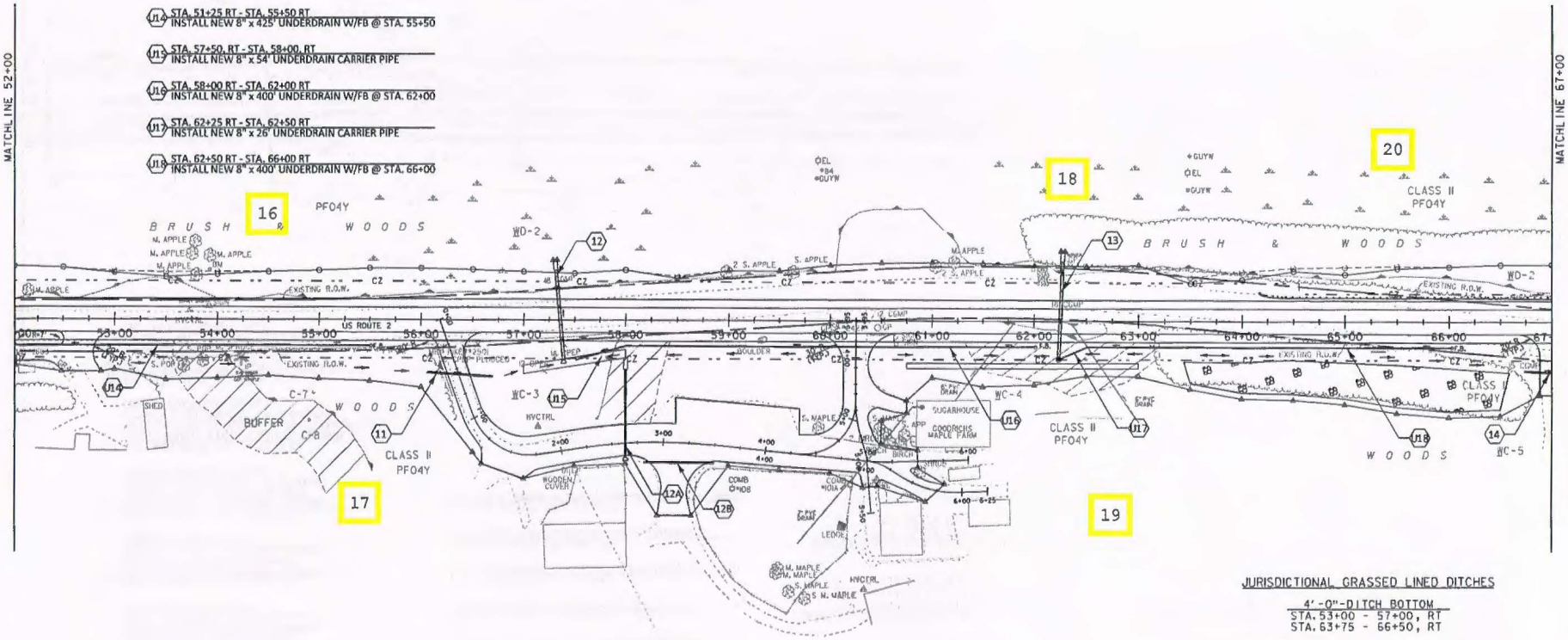
STEEL BEAM GUARDRAIL
STA. 64+55.5 LT. ~ 69+80.5 LT.

MANUFACTURED TERMINAL SECTION, FLARED
STA. 64+18 LT. ~ 64+55.5 LT.

SCARIFYING PAVEMENT
STA. 66+75 ~ 70+25

SPECIAL PROVISION (RELOCATE PAINTED BOULDER)
STA. 59+35 RT. (MOVE BACK ABOVE CUT LIMITS)

CONSTRUCT DRIVES (GRAVEL)
STA. 52+00 ~ 52+50 RT. (14'W)
STA. 52+64 RT. (28'W)
STA. 56+18 RT. (20'W) ASKEWED 70°33'11" RT.
STA. 60+25 RT. (24'W)
STA. 66+96 RT. (14'W)



JURISDICTIONAL GRASSED LINED DITCHES

4'-0" DITCH BOTTOM
STA. 53+00 - 57+00, RT
STA. 63+75 - 66+50, RT

0 50 125 250
SCALE IN FEET

R. 11/24/14

PROJECT NAME: CABOT - DANVILLE
PROJECT NUMBER: FEGC F 028-3(26) C/2

FILE NAME: d78d347bdr.dgn
PROJECT LEADER: K. UPMAL
DESIGNED BY: I. SHEA
LAYOUT SHEET 4

PLOT DATE: 28-OCT-2014
DRAWN BY: I. SHEA
CHECKED BY: HSD
SHEET 24 OF 162

(15) STA. 67+24, 45' RT - STA. 67+28, 55' LT
INSTALL NEW 30" x 102' CULVERT - OPTION EE
W/ END SECTION - OPTION JJ @ INLET
STONE FILL PAD, 10'W x 8'L, TYPE II @ INLET
STONE FILL PAD, 4'W x 10'L, TYPE II @ OUTLET
REMOVE EXISTING 18" R.C.P.

(16) STA. 69+39, 55' RT - STA. 69+44, 55' LT
INSTALL NEW 30" x 104' CULVERT - OPTION EE
W/ END SECTION - OPTION JJ @ INLET
STONE FILL PAD, 10'W x 8'L, TYPE II @ INLET
STONE FILL PAD, 4'W x 10'L, TYPE II @ OUTLET
REMOVE EXISTING 18" CPEP

(17) STA. 71+87, 46' LT - STA. 71+88, 32' RT
INSTALL NEW 18" x 80' CULVERT - OPTION AA
W/ P.R.C.C.B., TYPE A GRATE @ INLET
STONE FILL PAD, 3'W x 6'L, TYPE I @ OUTLET
REMOVE EXISTING 18" CPEP

(18) STA. 74+42, 35' RT - STA. 74+52, 48' LT
INSTALL NEW 24" x 84' CULVERT - OPTION CC
W/ END SECTION - OPTION HH @ INLET
STONE FILL PAD, 4'W x 8'L, TYPE I @ OUTLET
REMOVE EXISTING 18" C.G.M.P.

(19) STA. 78+07, 43' RT - STA. 78+31, 39' LT
INSTALL NEW 57" x 38" x 86' CULVERT - OPTION FF
W/ C.H. & STONE FILL PAD, 20'W x 15'L, TYPE II @ INLET
STONE FILL PAD, 8'W x 20'L, TYPE II @ OUTLET
REMOVE EXISTING 24" C.G.M.P.

(20) STA. 79+89, 38' LT - STA. 79+92, 36' RT
INSTALL NEW 30" x 78' CULVERT - OPTION DD
W/ END SECTION - OPTION II @ INLET
STONE FILL PAD, 10'W x 8'L, TYPE II @ INLET
STONE FILL PAD, 5'W x 19'L, TYPE II @ OUTLET
REMOVE EXISTING 18" C.G.M.P.

R9 STA. 69+80, 48' RT - STA. 69+93, 48' RT
REMOVE EXISTING 15" C.G.M.P.

(J19) STA. 71+00 RT - STA. 71+80 RT
INSTALL NEW 8" x 80' UNDERDRAIN W/FB @ STA. 71+80

(J20) STA. 71+80 RT - STA. 71+88 RT
INSTALL NEW 8" x 8' UNDERDRAIN CARRIER PIPE

(J21) STA. 71+88 RT - STA. 71+95 RT
INSTALL NEW 8" x 8' UNDERDRAIN CARRIER PIPE

(J22) STA. 71+95 RT - STA. 73+00 RT
INSTALL NEW 8" x 112' UNDERDRAIN W/FB @ STA. 73+00

(J23) STA. 79+95 RT - STA. 80+25 RT
INSTALL NEW 8" x 30' UNDERDRAIN CARRIER PIPE

(J24) STA. 80+25 RT - STA. 82+00 RT
INSTALL NEW 8" x 175' UNDERDRAIN W/FB @ STA. 82+00

STONE FILL DITCH, TYPE I, 8' WIDE
STA. 67+19 RT. ~ STA. 71+00 RT.
STA. 74+00 RT. ~ STA. 74+50 RT.
STA. 78+00 RT. ~ STA. 80+50 RT.

STEEL BEAM GUARDRAL
STA. 64+55.5 LT. ~ 69+80.5 LT.
STA. 71+19.5 LT. ~ 81+57.0 LT.

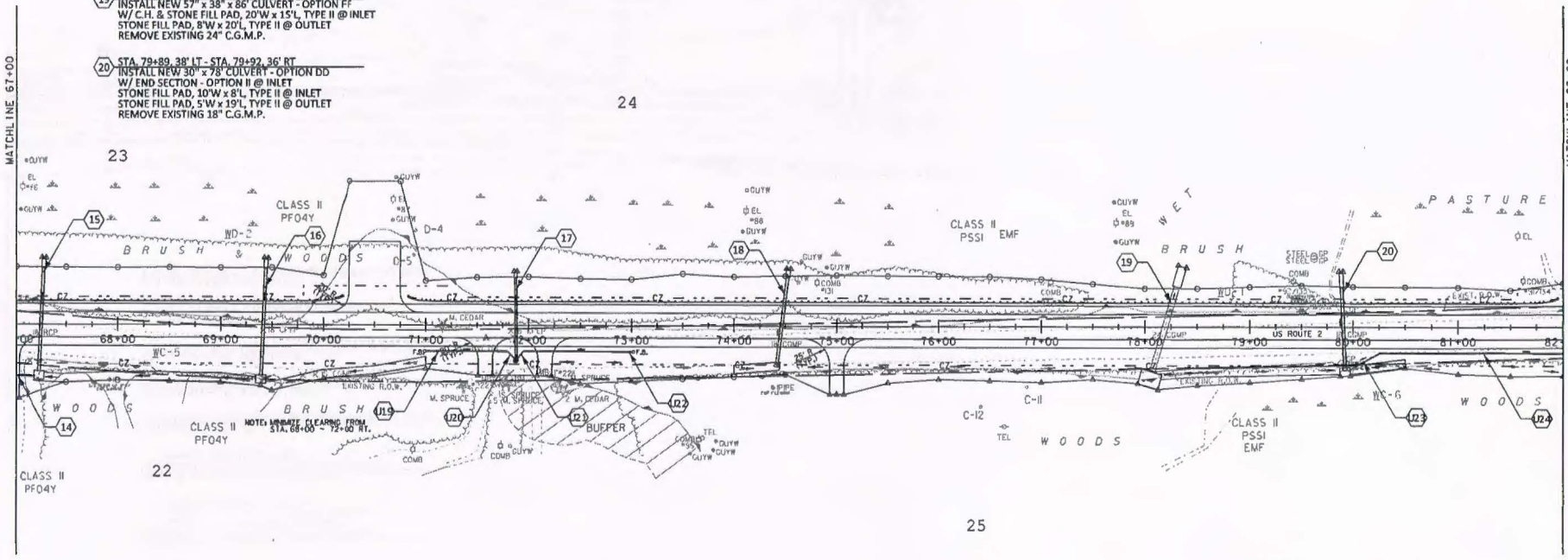
MANUFACTURED TERMINAL SECTION, FLARED
STA. 69+80.5 LT. ~ 70+18.0 LT.
STA. 70+82.0 LT. ~ 71+19.5 LT.
STA. 81+57.0 LT. ~ 81+94.5 LT.

RELOCATE MAILBOX, SINGLE SUPPORT
STA. 71+68 RT.
STA. 72+24 RT.

CONSTRUCT DRIVES (GRAVEL)

LT.	RT.
STA. 70+50 (14'W)	STA. 66+96 (14'W)
	STA. 71+58 (14'W) PAVED
	STA. 72+18 (14'W) ASKEWED 86°30'00" LT.
	STA. 75+00 (14'W)

SCARIFYING PAVEMENT
STA. 66+75 ~ 70+25



JURISDICTIONAL GRASSED LINED DITCHES

4'-0" DITCH BOTTOM
STA. 72+25 - 74+00, RT
STA. 75+50 - 78+00, RT

R. 11/24/14

0 50 125 250
SCALE IN FEET

PROJECT NAME:	CABOT - DANVILLE
PROJECT NUMBER:	FEGC F 028-3(26) C/2
FILE NAME: d78d347bdr.dgn	PLOT DATE: 28-OCT-2014
PROJECT LEADER: K. UPMAL	DRAWN BY: I. SHEA
DESIGNED BY: I. SHEA	CHECKED BY: HSD
LAYOUT SHEET 5	SHEET 26 OF 162

21 STA. 82+10. 37' RT - STA. 82+05. 47' LT
INSTALL NEW 30" x 86' CULVERT - OPTION DD
W/ END SECTION - OPTION II @ INLET,
STONE FILL PAD, 4'W x 10'L, TYPE II @ OUTLET
REMOVE EXISTING 18" C.G.M.P.

E2 STA. 88+12. 33' RT - STA. 88+13. 33' LT
EXISTING 103" x 71" CULVERT - RETAIN

J25 STA. 82+08 RT - STA. 82+25 RT
INSTALL NEW 8" x 20' UNDERDRAIN CARRIER PIPE

J26 STA. 82+25 RT - STA. 87+00 RT
INSTALL NEW 8" x 475' UNDERDRAIN W/FB @ STA. 87+00

J27 STA. 83+00 LT - STA. 83+50 LT
INSTALL NEW 8" x 54' UNDERDRAIN CARRIER PIPE

J28 STA. 83+50 LT - STA. 85+50 LT
INSTALL NEW 8" x 200' UNDERDRAIN W/FB @ STA. 85+50

R10 STA. 82+90. 26' LT - STA. 82+95. 25' RT
REMOVE EXISTING 18" C.G.M.P.

R11 STA. 86+01. 22' RT - STA. 86+17. 25' LT
REMOVE EXISTING 18" C.G.M.P.

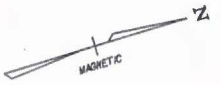
STONE FILL DITCH, TYPE I, 8' WIDE
STA. 82+00 RT. ~ 82+50 RT.

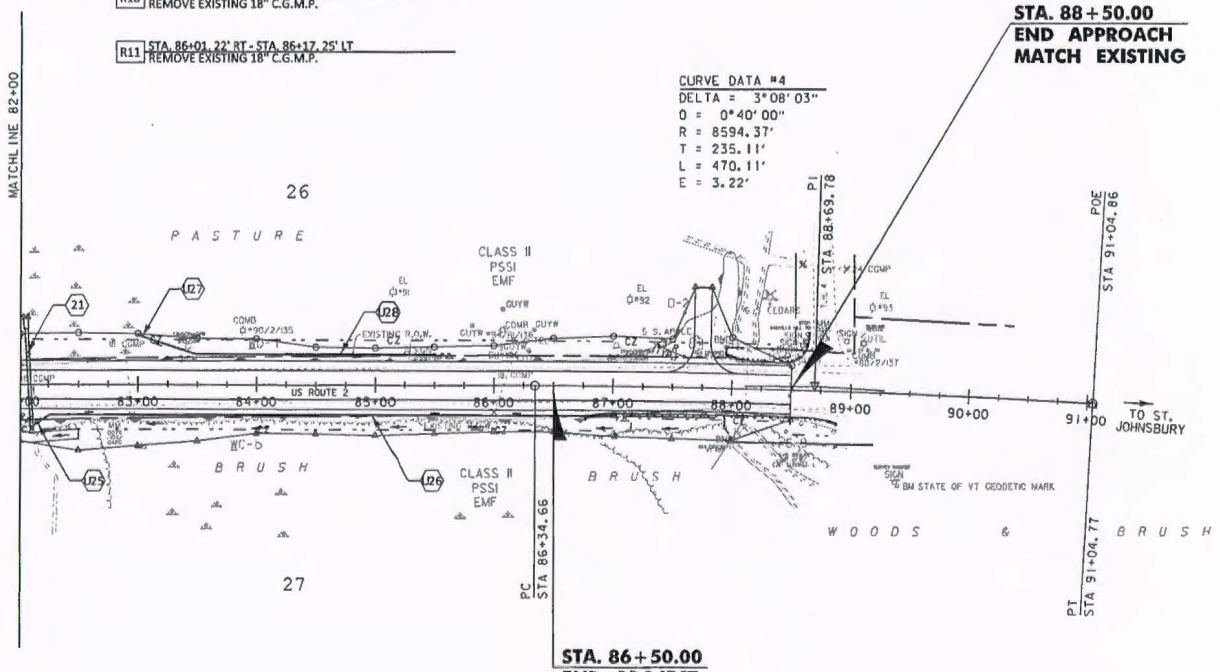
MANUFACTURED TERMINAL SECTION, FLARED
STA. 87+97.5 LT. ~ 88+35.0 LT.
STA. 86+75.0 LT. ~ 87+12.5 RT.
STA. 88+50.0 LT. ~ 88+87.5 RT.

STEEL BEAM GUARDRAIL
STA. 88+35.0 LT. ~ 88+55 LT.
STA. 87+12.5 RT. ~ 88+50 RT.

ANCHOR FOR STEEL BEAM RAIL
STA. 88+47 LT.
(SEE STANDARD G-1d)

CONSTRUCT DRIVES (GRAVEL)
STA. 87+75 LT. (14'W)





CURVE DATA #4
DELTA = 3°08'03"
D = 0°40'00"
R = 8594.37'
T = 235.11'
L = 470.11'
E = 3.22'

STA. 88+50.00
END APPROACH
MATCH EXISTING

STA. 86+50.00
END PROJECT
FEGC F 028-3(26)C/2
BEGIN APPROACH

JURISDICTIONAL GRASSED LINED DITCHES
4'-0"-DITCH BOTTOM
STA. 82+50 - 88+00, RT

0 50 125 250
SCALE IN FEET

PROJECT NAME: CABOT - DANVILLE
PROJECT NUMBER: FEGC F 028-3(26) C/2

FILE NAME: d78d347bdr.dgn
PROJECT LEADER: K. UPMAL
DESIGNED BY: T. SHEA
LAYOUT SHEET 6

PLOT DATE: 28-OCT-2014
DRAWN BY: T. SHEA
CHECKED BY: HSD
SHEET 28 OF 162