

PROVIDENCE COUNTY RHODE ISLAND  
TOWN OF BURRILLVILLE

RIGHT-OF-WAY  
TRACT NUMBERS  
OWNERSHIP/AGENCY

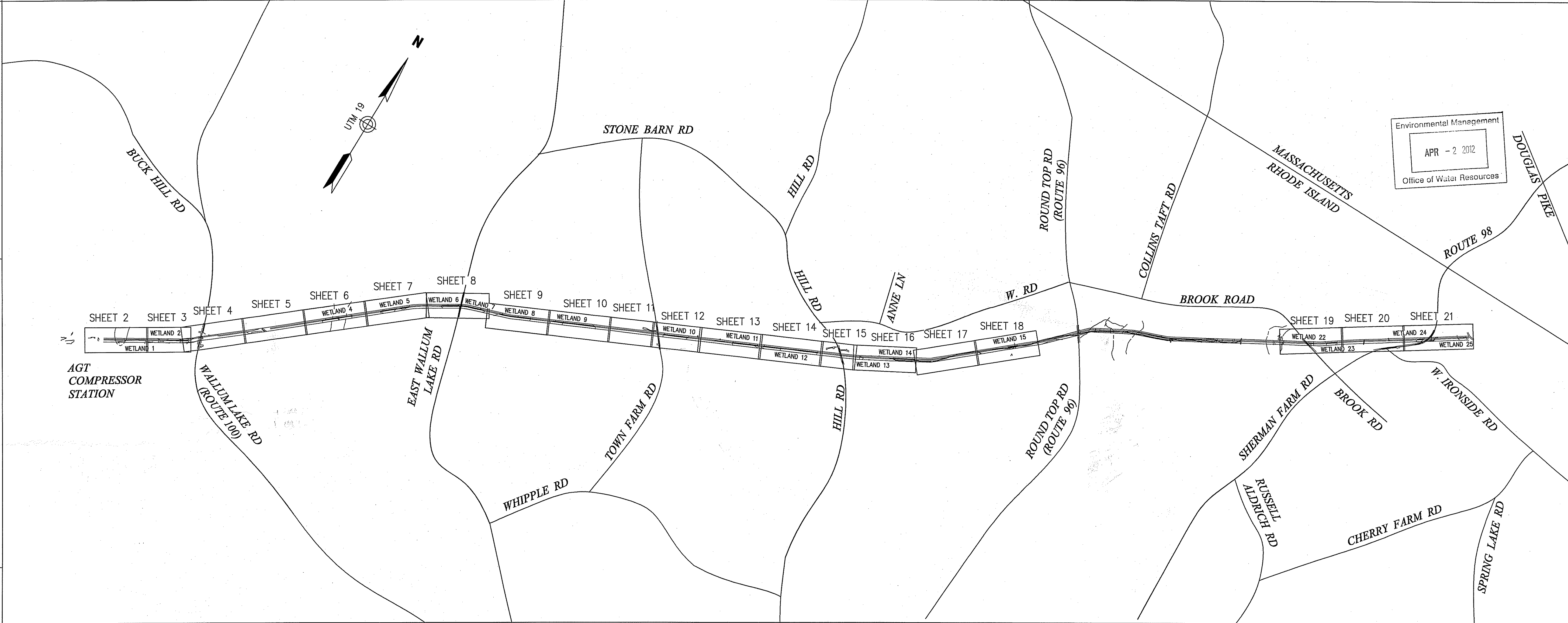
SURVEY DATA  
SURVEY COMPANY: VHB WATERTOWN MA  
FIELD BOOK:  
PAGES:

ALIGNMENT DETAIL

LEGEND

- TEMPORARY ACCESS ROAD (TAR)
- 15' WIDE TEMPORARY WORKSPACE (TWS)
- VEGETATED WETLAND IMPACT
- PROPERTY LINE
- EXISTING AGT EASEMENT
- PROPOSED ANODE
- PROPOSED HEADER CABLE
- 15'-WIDE TEMPORARY WORKSPACE
- TEMP. ACCESS ROAD
- MAINLINE
- EXISTING AGT PIPELINE
- DRAIN MANHOLE
- CATCH BASIN
- SEWER MANHOLE
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- MANHOLE
- HAND HOLE
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- FIRE HYDRANT
- GAS GATE
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- F.F.E.=45.27 FINISHED FLOOR ELEVATION
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- CHAIN LINK FENCE
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- OVERHEAD WIRE
- UNDERGROUND ELECTRIC
- TELEPHONE LINE
- GAS LINE
- WATER LINE
- STONE WALL
- TRCE LINE
- CENTERLINE STREAM
- VEGETATED WETLAND EDGE
- 50-FW 50-FT PERIMETER WETLAND
- 100RW 100-FT RIVERBANK WETLAND
- 200RW 200-FT RIVERBANK WETLAND
- 100FW 100-YR FLOODWAY
- 200FP 200-YR FLOOD PLAIN
- EROSION CONTROL

DATE OF AERIAL PHOTOGRAPHY: 3-6-2008



Environmental Management  
APR - 2 2012  
Office of Water Resources

**General Notes**

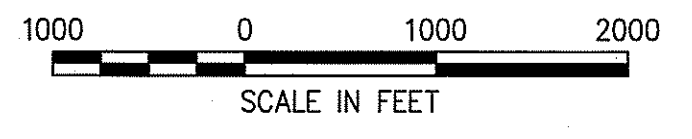
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- HORIZONTAL DATUM IS BASED ON UTM 19 PROJECTIONS, NAD 1983.
- THE WETLANDS SHOWN ON THIS PLAN WERE DELINEATED IN THE SPRING OF 2011 BY TRC ENVIRONMENTAL CORP. AND FIELD SURVEYED BY VHB IN MAY 2011.
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- THE FINAL IMPLEMENTATION AND LOCATION OF EROSION AND SEDIMENT CONTROLS WILL BE DETERMINED BY A SPECTRA INSPECTOR.
- ANODE STATIONING IS BASED ON 24" MAINLINE.
- THERE ARE NO PROPOSED GRADE CHANGES ASSOCIATED WITH THIS PROJECT. EXISTING GRADES SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.

**Notes per DEM:**

- All areas designated as a "Temporary Work Space" (TWS) shall be considered the approved Limit of Disturbance.
- Swamp mats will be required at the staging area in Wetland W6.



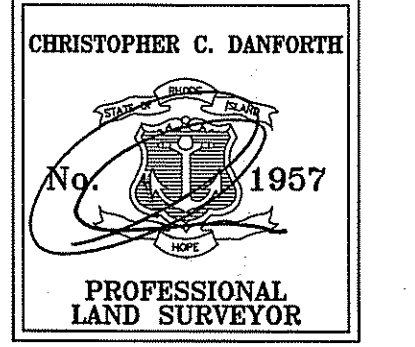
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED MAY 11 2012 FILE # 11-0215  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

TOPOGRAPHIC INFORMATION DEPICTED ON THIS SURVEY AND PLAN CONFORM TO A CLASS III STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

PROPERTY INFORMATION DEPICTED ON THIS SURVEY IS SUBSTANTIALLY CORRECT IN ACCORDANCE WITH A CLASS IV STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THIS PLAN IS NOT TO BE CONSTRUED AS AN ACTUAL BOUNDARY SURVEY AND IS SUBJECT TO SUCH CHANGES AS AN ACCURATE BOUNDARY SURVEY MAY DISCLOSE.

*Christopher C. Danforth*  
CHRISTOPHER C. DANFORTH, P.L.S. #1957 DATE 3/29/12



NOT FOR CONSTRUCTION

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	<p><b>VHB</b> Vianasso Hangen Brustlin, Inc. Transportation Land Development Environmental Services 180 Walnut Street, P.O. Box 9151 Watertown, Massachusetts 02471-9151 617-924-1770 • FAX 617-924-2286</p>				<p>ENGINEERING APPROVALS</p> <table border="1"> <tr> <td>DRAWN BY:</td> <td>BID</td> <td>CONSTRUCTION</td> <td></td> </tr> <tr> <td>SLT</td> <td></td> <td>11/09</td> <td></td> </tr> <tr> <td>REV.</td> <td></td> <td>3/29</td> <td></td> </tr> </table>				DRAWN BY:	BID	CONSTRUCTION		SLT		11/09		REV.		3/29		<p><b>MAINLINE</b> <b>BURRILLVILLE GROUND BED</b></p> <p>ALIGNMENT SHEET</p> <p>LOC. BURRILLVILLE RI</p>				<p><b>Spectra Energy</b></p> <p>Algonquin Gas Transmission, LLC 5400 Westheimer Court, Houston, TX 77056-5310</p>			
DRAWN BY:	BID	CONSTRUCTION																															
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						TITLE	SIGNATURE	DATE	SIGNATURE	DATE	YEAR: 2012	W.O. 004110684	SCALE: 1"=1000'	DWG. C-355A	1 OF 22	REV.																	

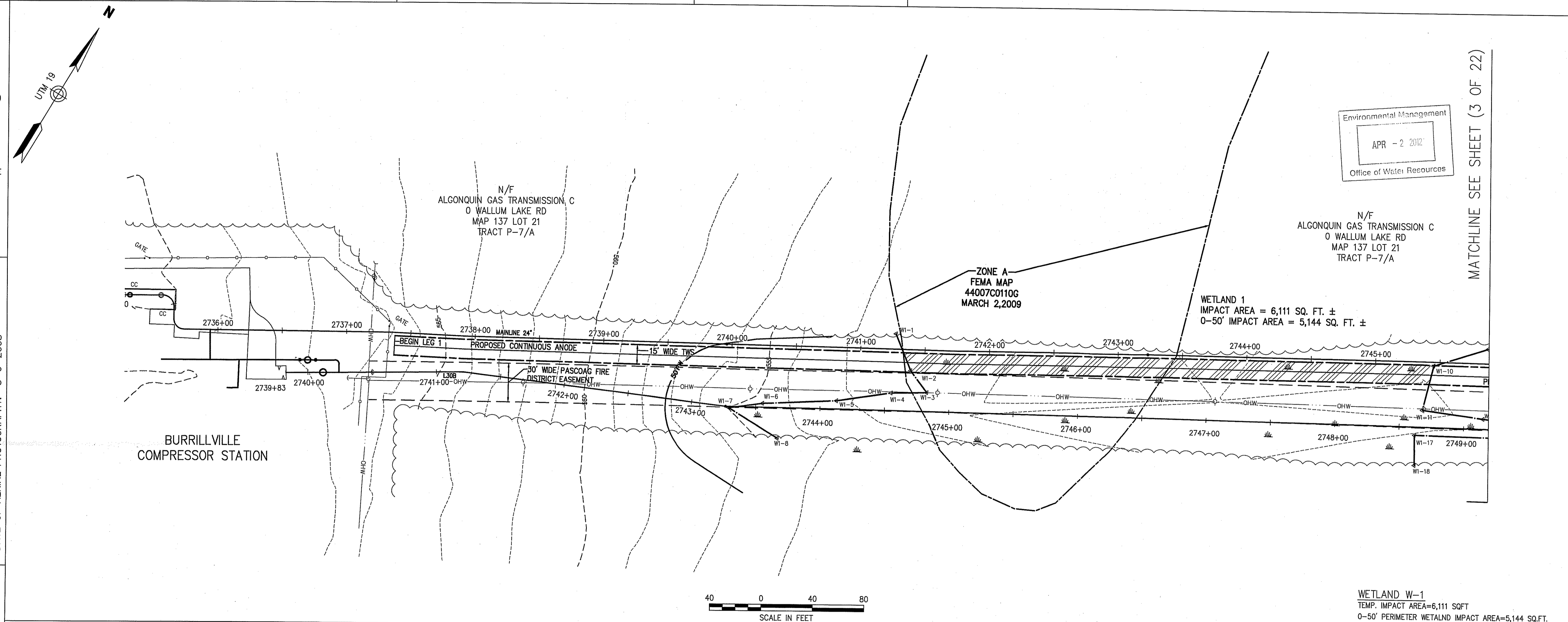
PROVIDENCE COUNTY RHODE ISLAND  
TOWN OF BURRILLVILLE

RIGHT-OF-WAY TRACT NUMBERS OWNERSHIP/AGENCY	TRACT P-7/A		
SURVEY DATA SURVEY COMPANY: VHB WATERTOWN MA FIELD BOOK: PAGES:	STA:2737+38 BEGIN ANODE LEG 1	2739+67 BEGIN 50'PW	2741+36 BEGIN W-1

**ALIGNMENT DETAIL**

**LEGEND**

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DATE OF AERIAL PHOTOGRAPHY: 3-6-2008

Environmental Management  
APR -2 2012  
Office of Water Resources

N/F ALGONQUIN GAS TRANSMISSION C  
0 WALLUM LAKE RD  
MAP 137 LOT 21  
TRACT P-7/A

WETLAND 1  
IMPACT AREA = 6,111 SQ. FT. ±  
0-50' IMPACT AREA = 5,144 SQ. FT. ±

WETLAND W-1  
TEMP. IMPACT AREA=6,111 SQFT  
0-50' PERIMETER WETLAND IMPACT AREA=5,144 SQ.FT.

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
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APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
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LEG 1  
LENGTH = 2008'

START CONTINUOUS ANODE  
STA:2737+38  
LEG 1

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION
		△			
		△			
		△			
		△			
		△			

 Vanasse Hangen Brustlin, Inc. Transportation Land Development Environmental Services 100 Walnut Street, P.O. Box 9151 Watertown, Massachusetts 02451-9151 617 924 1770 • FAX 617 924 2266	ENGINEERING APPROVALS		
	DRAWN BY: SLT	BID 11/09	CONSTRUCTION 3/29
REV.			
TITLE	SIGNATURE	DATE	SIGNATURE DATE

MAINLINE BURRILLVILLE GROUND BED ALIGNMENT SHEET		 Algonquin Gas Transmission, LLC 5400 Westheimer Court, Houston, TX 77056-5310
LOC.	BURRILLVILLE RI	
YEAR: 2012	W.O. 004110684	SCALE: 1"=40'
DWG. C-355A	2 OF 22	REV.



**PROVIDENCE COUNTY RHODE ISLAND  
TOWN OF BURRILLVILLE**

<b>RIGHT-OF-WAY</b> TRACT NUMBERS OWNERSHIP/AGENCY	TRACT P-7/A	TRACT P-8 WALLUM LAKE ROAD	TRACT P-9	+83	TRACT P-10
<b>SURVEY DATA</b> SURVEY COMPANY: VHB WATERTOWN MA FIELD BOOK: PAGES:	STA:2754+48 RIGHT ANGLE PT ANODE	STA:2754+52 END 50'PW	STA:2755+50 BEGIN HDD	STA:2755+93 ROW	STA:2756+57 ROW
			STA:2756+65 END HDD	STA:2757+38 END LEG 1	STA:2757+39 BEGIN LEG 2
				STA:2759+30 END LEG 2	BEGIN LEG 3 STA:2757+40

**ALIGNMENT DETAIL**

**LEGEND**

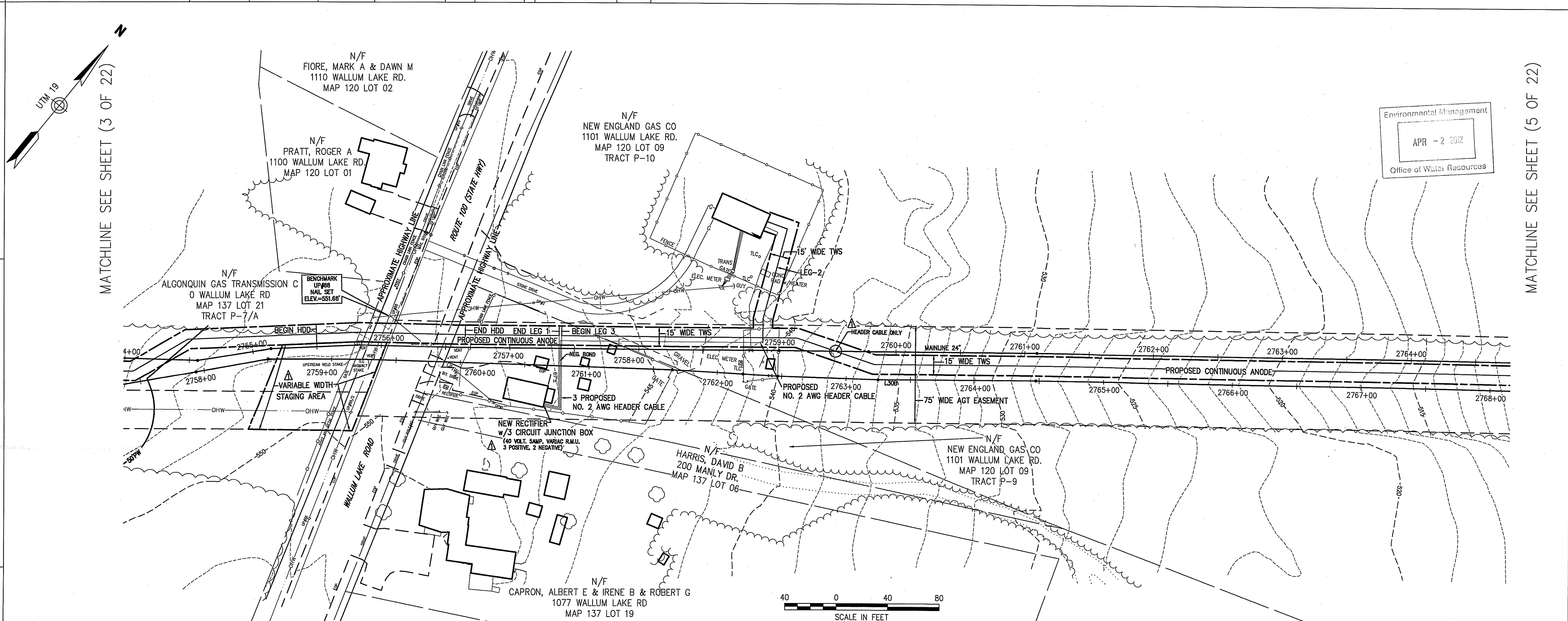
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DATE OF AERIAL PHOTOGRAPHY: 3-6-2008	Environmental Management APR -2 2012 Office of Water Resources	MATCHLINE SEE SHEET (3 OF 22)	MATCHLINE SEE SHEET (5 OF 22)
<p>Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.</p> <p>DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF WATER RESOURCES FRESHWATER WETLANDS PROGRAM APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED MAY 11 2012 FILE # M-0215 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED PLANS MUST BE AT CONSTRUCTION SITE</p> <p><i>Martin D. Wenzel</i></p>	<p>CHRYSTOPHER C. DANFORTH No. 1957 PROFESSIONAL LAND SURVEYOR</p>	<p>LEG 1 LENGTH = 2008'</p> <p>LEG 2 LENGTH = 107'</p> <p>LEG 3 LENGTH = 2548'</p>	<p>LEG 1 STA:2755+50 HDD LENGTH = 427'</p> <p>LEG 2 STA:2756+65 STA:2757+38 STA:2757+39 STA:2759+30</p> <p>LEG 3 STA:2757+40</p>

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	<p><b>VHB</b> Vannasse Hangen Brustlin, Inc. Transportation Land Development Environmental Services 101 Walnut Street, P.O. Box 9121 Worcester, Massachusetts 01415-9121 617 924 1770 • FAX 617 924 2286</p>	<p>ENGINEERING APPROVALS</p> <table border="1"> <tr> <th>DRAWN BY:</th> <th>BID</th> <th>CONSTRUCTION</th> </tr> <tr> <td>SLT</td> <td>11/09</td> <td></td> </tr> <tr> <td>REV.</td> <td>3/29</td> <td></td> </tr> </table>	DRAWN BY:	BID	CONSTRUCTION	SLT	11/09		REV.	3/29		<p><b>MAINLINE BURRILLVILLE GROUND BED</b></p> <p>ALIGNMENT SHEET</p> <p>LOC. BURRILLVILLE RI</p> <p>YEAR: 2012 W.O. 004110684 SCALE: 1"=40' DWG. C-355A 4 OF 22 REV.</p>	<p><b>Spectra Energy</b></p> <p>Algonquin Gas Transmission, LLC 5400 Westheimer Court, Houston, TX 77056-5310</p>
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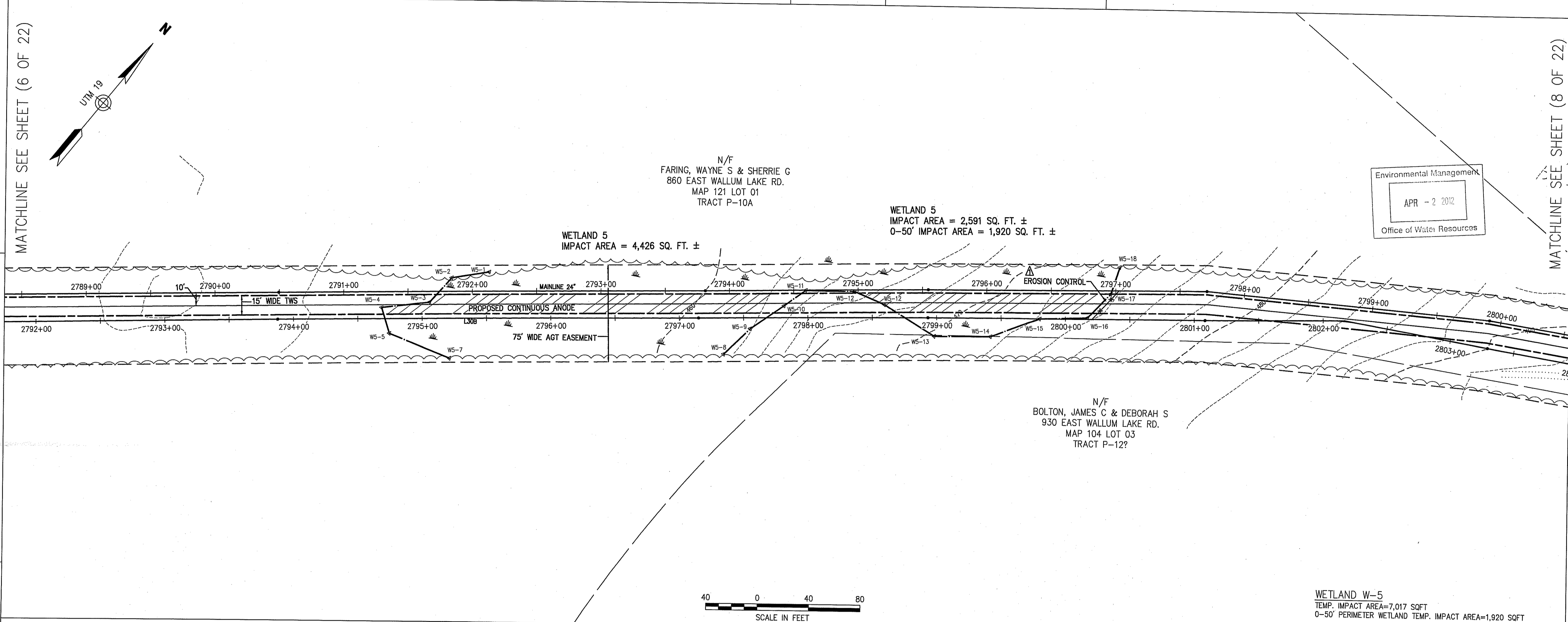
**PROVIDENCE COUNTY RHODE ISLAND  
TOWN OF BURRILLVILLE**

RIGHT-OF-WAY	TRACT P-10A		TRACT P-10A	
TRACT NUMBERS OWNERSHIP/AGENCY				
SURVEY DATA	TRACT P-12		TRACT P-12	
SURVEY COMPANY: VHB WATERTOWN MA				
FIELD BOOK:				
PAGES:				

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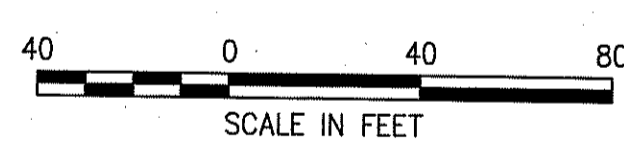
MATCHLINE SEE SHEET (6 OF 22)

MATCHLINE SEE SHEET (8 OF 22)

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*Morgan D. Wenzel*



LEG 4  
LENGTH = 2348'

WETLAND W-5  
TEMP. IMPACT AREA=7,017 SQFT  
0-50' PERIMETER WETLAND TEMP. IMPACT AREA=1,920 SQFT

CHRISTOPHER C. DANFORTH  
No. 1957  
PROFESSIONAL LAND SURVEYOR

NOT FOR CONSTRUCTION

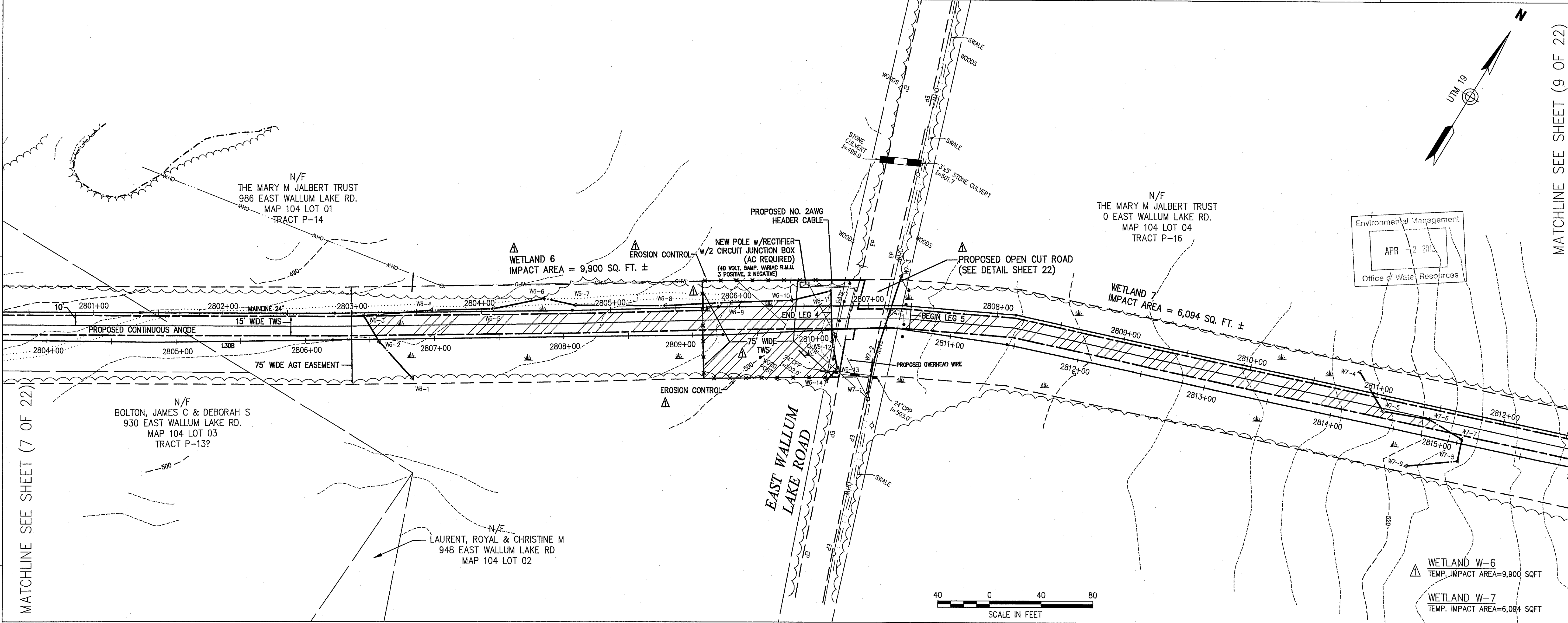
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TITLE	SIGNATURE	DATE	SIGNATURE	DATE																																											
MAINLINE BURRILLVILLE GROUND BED																																															
ALIGNMENT SHEET																																															
LOC.	BURRILLVILLE RI																																														
YEAR: 2012	W.O. 004110684																																														
SCALE: 1"=40'																																															
DWG. C-355A 7 OF 22 REV.																																															

**PROVIDENCE COUNTY RHODE ISLAND  
TOWN OF BURRILLVILLE**

RIGHT-OF-WAY TRACT NUMBERS OWNERSHIP/AGENCY	TRACT P-10A	2801+61	TRACT P-14	2801+76	TRACT P-15	2807+24	TRACT P-16
	TRACT P-12						

**SURVEY DATA**  
SURVEY COMPANY: VHB WATERTOWN MA  
FIELD BOOK:  
PAGES:

- ALIGNMENT DETAIL**
- LEGEND**
- TEMPORARY ACCESS ROAD (TAR)
  - 15' WIDE TEMPORARY WORKSPACE (TWS)
  - VEGETATED WETLAND IMPACT
  - PROPERTY LINE
  - EXISTING AGT EASEMENT
  - PROPOSED ANODE
  - PROPOSED HEADER CABLE
  - 15'-WIDE TEMPORARY WORKSPACE
  - TEMP. ACCESS ROAD
  - MAINLINE
  - EXISTING AGT PIPELINE
  - DRAIN MANHOLE
  - CATCH BASIN
  - SEWER MANHOLE
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  - HAND HOLE
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  - FIRE HYDRANT
  - GAS GATE
  - STREET SIGN
  - LIGHT POLE
  - UTILITY POLE
  - GUY POLE
  - GUY WIRE
  - WELL
  - CNO COULD NOT OPEN
  - NPV NO PIPES VISIBLE
  - F.F.E.=45.27 FINISHED FLOOR ELEVATION
  - EDGE OF PAVEMENT
  - GUARD RAIL
  - CHAIN LINK FENCE
  - DRAINAGE LINE
  - OVERHEAD WIRE
  - UNDERGROUND ELECTRIC
  - TELEPHONE LINE
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  - TREE LINE
  - CENTERLINE STREAM
  - VEGETATED WETLAND EDGE
  - 50-FW 50-FT PERIMETER WETLAND
  - 100-FW 100-FT RIVERBANK WETLAND
  - 200-FW 200-FT RIVERBANK WETLAND
  - 100-FW 100-YR FLOODWAY
  - 200-FW 200-YR FLOOD PLAIN
  - EROSION CONTROL



- General Notes**
- THE PROPERTY LINES SHOWN ON THIS PLAN WERE COMPILED FROM LOCAL ASSESSOR'S PLATS AND ARE SHOWN GRAPHICALLY. VHB HAS NOT PERFORMED A FIELD SURVEY TO VERIFY THE PROPERTY LINES.
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  - CONTRACTOR TO COMPLY WITH ALL APPLICABLE PROVISIONS OF SPECTRA'S ENVIRONMENTAL CONSTRUCTION EROSION/SEDIMENTATION CONTROL PLAN.
  - THE FINAL IMPLEMENTATION AND LOCATION OF EROSION AND SEDIMENT CONTROLS WILL BE DETERMINED BY A SPECTRA INSPECTOR.
  - ANODE STATIONING IS BASED ON 24" MAINLINE.
  - THERE ARE NO PROPOSED GRADE CHANGES ASSOCIATED WITH THIS PROJECT. EXISTING GRADES SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.

DATE OF AERIAL PHOTOGRAPHY: 3-6-2008

MATCHLINE SEE SHEET (7 OF 22)

MATCHLINE SEE SHEET (9 OF 22)

LEG 4 LENGTH = 2364'

LEG 5 LENGTH = 1970'

Scale in Feet: 0 40 80

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED MAY 11 2012 FILE # 11-0215  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

CHRISTOPHER C. DANFORTH  
No. 1957  
PROFESSIONAL LAND SURVEYOR

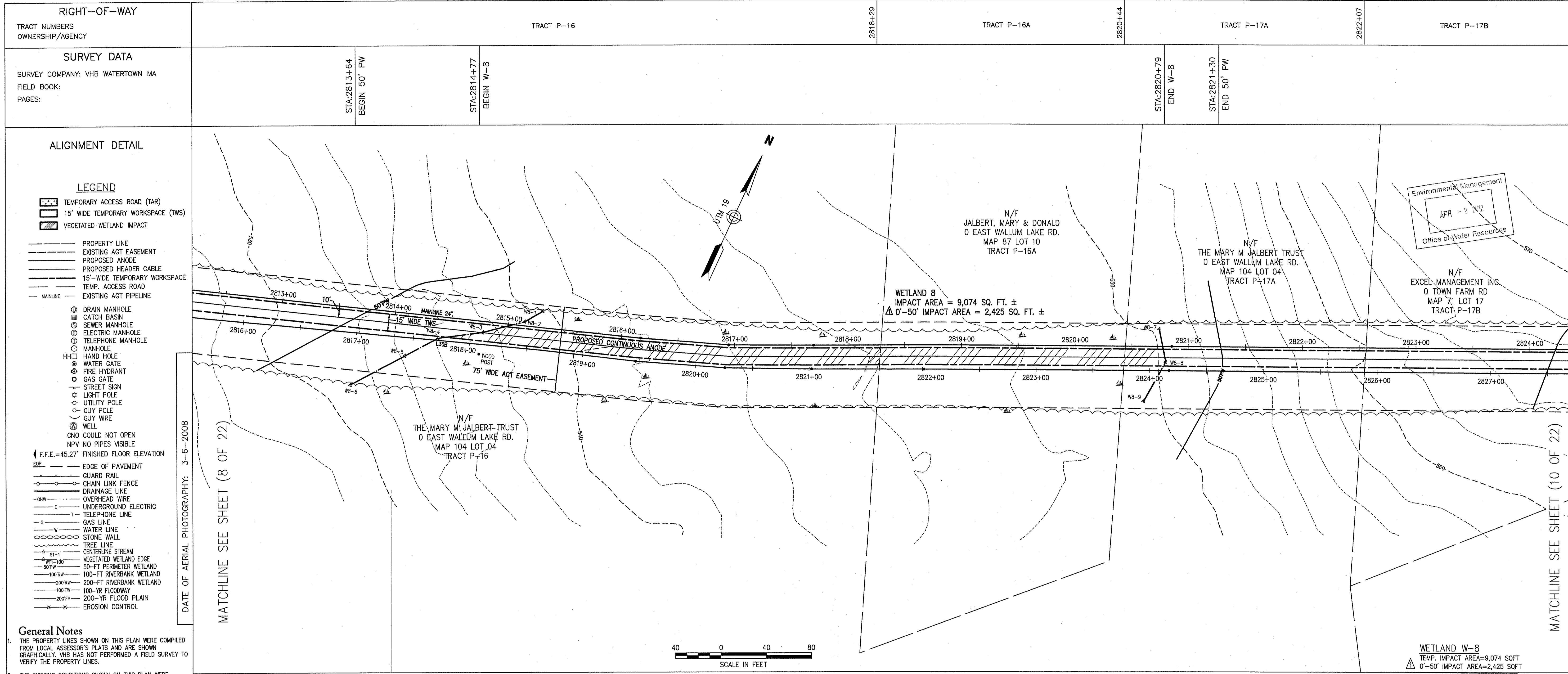
NOT FOR CONSTRUCTION

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION

ENGINEERING APPROVALS		MAINLINE BURRILLVILLE GROUND BED	
DRAWN BY:	BID	CONSTRUCTION	
SLT		11/09	
REV.		3/29	
TITLE	SIGNATURE	DATE	SIGNATURE DATE

LOC.	BURRILLVILLE RI
YEAR: 2012	W.O. 004110684
SCALE: 1"=40'	DWG. C-355A 8 OF 22
REV.	

**PROVIDENCE COUNTY RHODE ISLAND  
TOWN OF BURRILLVILLE**



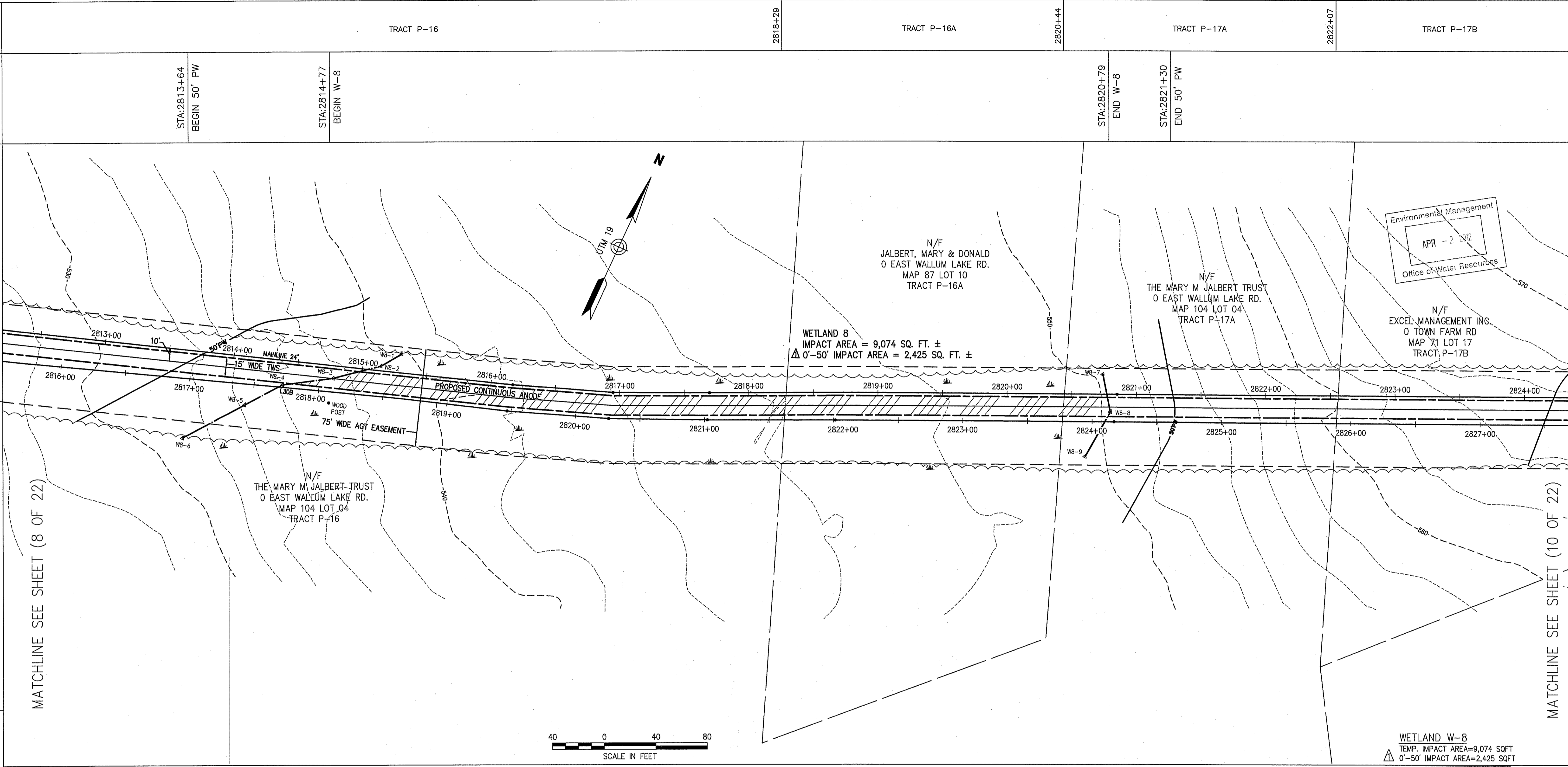
**RIGHT-OF-WAY**  
TRACT NUMBERS  
OWNERSHIP/AGENCY

**SURVEY DATA**  
SURVEY COMPANY: VHB WATERTOWN MA  
FIELD BOOK:  
PAGES:

**ALIGNMENT DETAIL**

**LEGEND**

- PROPERTY LINE
- - - EXISTING AGT EASEMENT
- PROPOSED ANODE
- PROPOSED HEADER CABLE
- 15'-WIDE TEMPORARY WORKSPACE
- TEMP. ACCESS ROAD
- MAINLINE
- EXISTING AGT PIPELINE
- ⊕ DRAIN MANHOLE
- ⊕ CATCH BASIN
- ⊕ SEWER MANHOLE
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- ⊕ STREET SIGN
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- ⊕ UTILITY POLE
- ⊕ GUY POLE
- ⊕ GUY WIRE
- ⊕ WELL
- CNO COULD NOT OPEN
- NPV NO PIPES VISIBLE
- ⬅ F.F.E.=45.27 FINISHED FLOOR ELEVATION
- EOP --- EDGE OF PAVEMENT
- GUARD RAIL
- CHAIN LINK FENCE
- DRAINAGE LINE
- OHW --- OVERHEAD WIRE
- E --- UNDERGROUND ELECTRIC
- T --- TELEPHONE LINE
- G --- GAS LINE
- W --- WATER LINE
- STONE WALL
- TREE LINE
- CENTERLINE STREAM
- VEGETATED WETLAND EDGE
- 50'PW --- 50-FT PERIMETER WETLAND
- 100'RW --- 100-FT RIVERBANK WETLAND
- 200'RW --- 200-FT RIVERBANK WETLAND
- 100'FW --- 100-YR FLOODWAY
- 200'FP --- 200-YR FLOOD PLAIN
- EROSION CONTROL



**General Notes**

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**Construction Notes**

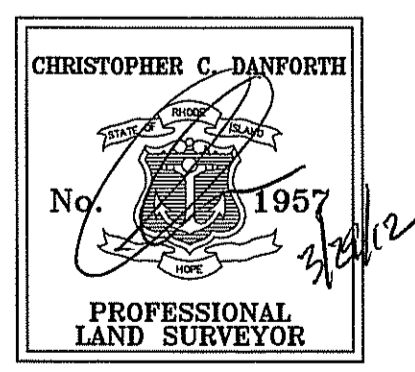
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LEG 5  
LENGTH = 1970'

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED MAY 11 2012 FILE # 110215  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

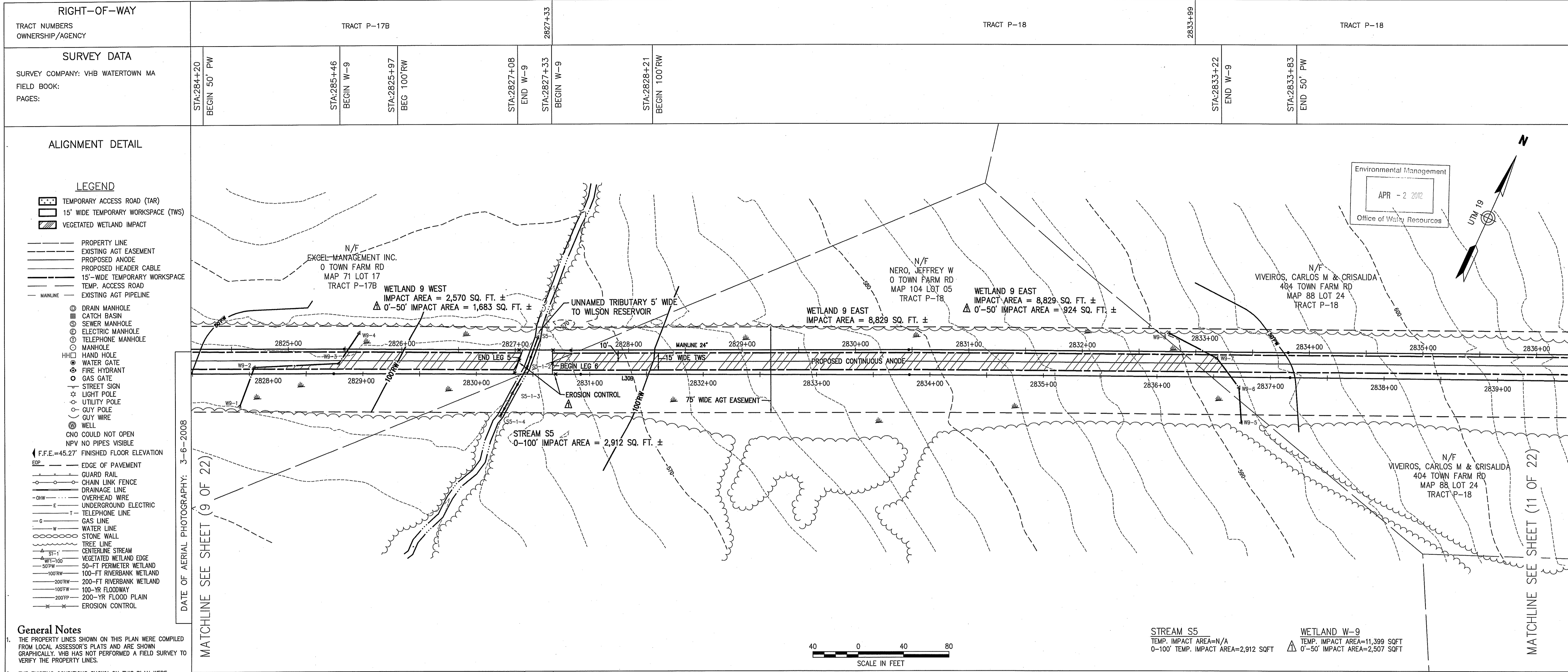
*Christopher C. Danforth*



NOT FOR CONSTRUCTION

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	ENGINEERING APPROVALS				MAINLINE BURRILLVILLE GROUNDBED ALIGNMENT SHEET	Spectra Energy
						DRAWN BY:	BID	CONSTRUCTION	LOC.		
						SLT		11/09		BURRILLVILLE RI	Algonquin Gas Transmission, LLC 5400 Westheimer Court, Houston, TX 77056-5310
						REV.		3/29			
						TITLE	SIGNATURE	DATE	SIGNATURE	DATE	YEAR: 2012
											W.O. 004110684
											SCALE: 1"=40'
											DWG. C-355A 9 OF 22
											REV.

**PROVIDENCE COUNTY RHODE ISLAND  
TOWN OF BURRILLVILLE**



<b>RIGHT-OF-WAY</b>	TRACT P-17B	TRACT P-18	TRACT P-18
TRACT NUMBERS			
OWNERSHIP/AGENCY			

<b>SURVEY DATA</b>	STA:2824+20 BEGIN 50' PW	STA:2825+46 BEGIN W-9	STA:2825+97 BEG 100'RW	STA:2827+08 END W-9	STA:2827+33 BEGIN W-9	STA:2828+21 BEGIN 100'RW	STA:2833+22 END W-9	STA:2833+83 END 50' PW
SURVEY COMPANY: VHB WATERTOWN MA								
FIELD BOOK:								
PAGES:								

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- LEGEND**
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  - PROPERTY LINE
  - EXISTING AGT EASEMENT
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  - TELEPHONE MANHOLE
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  - STREET SIGN
  - LIGHT POLE
  - UTILITY POLE
  - GUY POLE
  - GUY WIRE
  - WELL
  - CNO COULD NOT OPEN
  - NPV NO PIPES VISIBLE
  - F.F.E.=45.27' FINISHED FLOOR ELEVATION
  - EDGE OF PAVEMENT
  - GUARD RAIL
  - CHAIN LINK FENCE
  - DRAINAGE LINE
  - OVERHEAD WIRE
  - UNDERGROUND ELECTRIC
  - TELEPHONE LINE
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  - 200-FT RIVERBANK WETLAND
  - 100-YR FLOODWAY
  - 200-YR FLOOD PLAIN
  - EROSION CONTROL

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DATE OF AERIAL PHOTOGRAPHY: 3-6-2008

MATCHLINE SEE SHEET (9 OF 22)

MATCHLINE SEE SHEET (11 OF 22)

LEG 5 LENGTH = 1970'

LEG 6 LENGTH = 5345'

STREAM S5 TEMP. IMPACT AREA=N/A 0-100' TEMP. IMPACT AREA=2,912 SQFT

WETLAND W-9 TEMP. IMPACT AREA=11,399 SQFT 0'-50' IMPACT AREA=2,507 SQFT

SCALE IN FEET

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

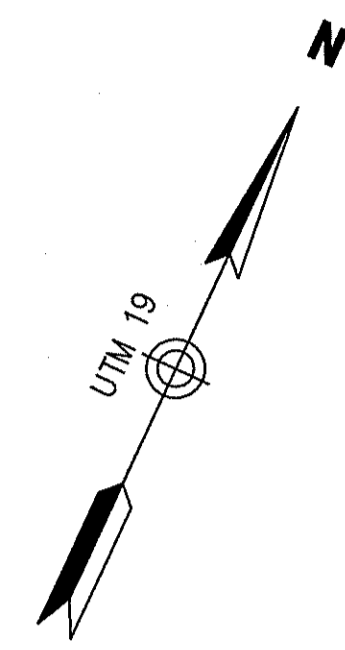
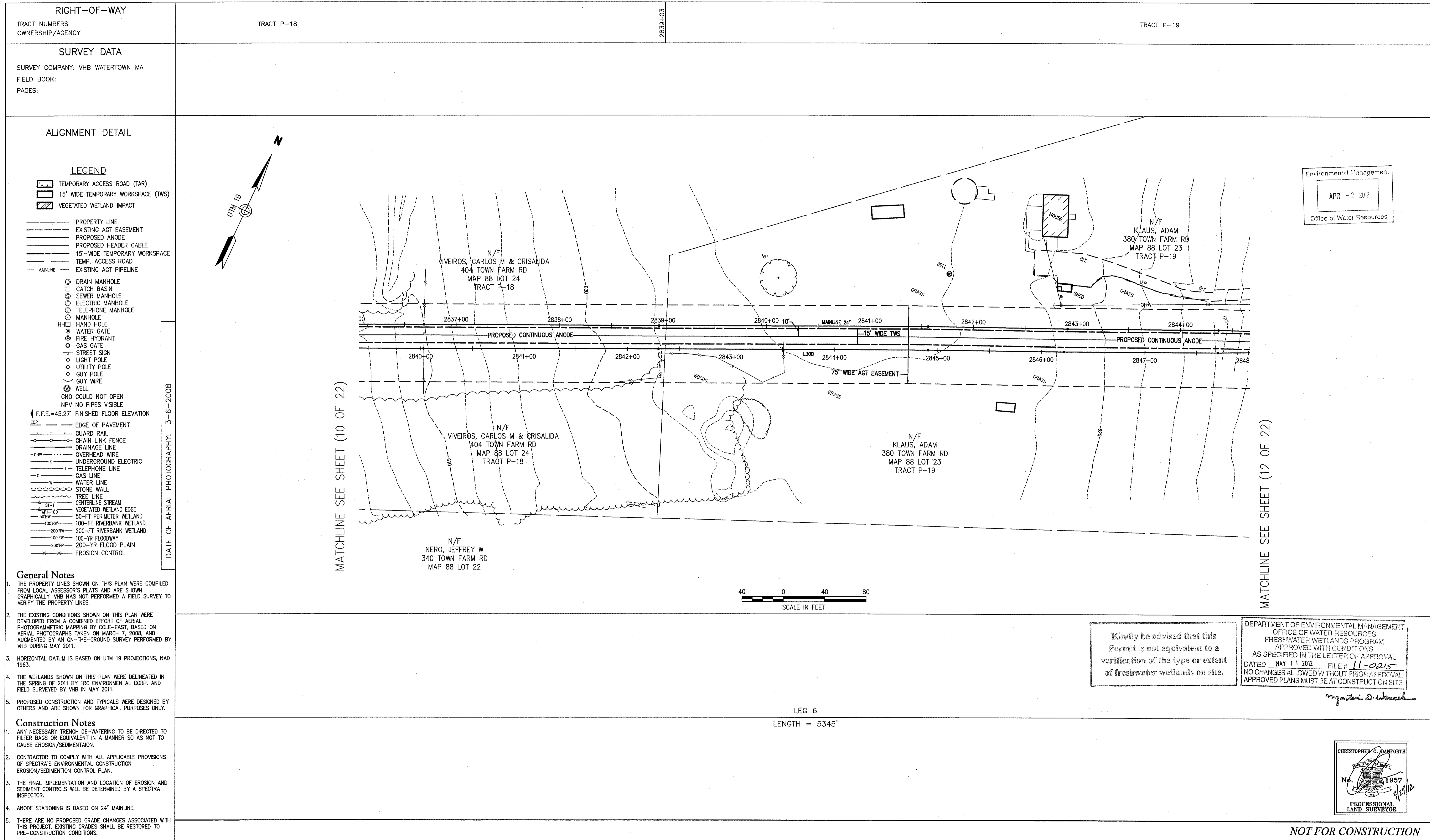
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED MAY 11 2012 FILE # 11-0215  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

CHRISTOPHER C. DANFORTH  
No. 1957  
PROFESSIONAL LAND SURVEYOR

NOT FOR CONSTRUCTION

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	ENGINEERING APPROVALS				MAINLINE BURRILLVILLE GROUND BED		Spectra Energy		
						DRAWN BY:	BID	CONSTRUCTION			ALIGNMENT SHEET		Algonquin Gas Transmission, LLC	
						SLT					LOC. BURRILLVILLE RI		5400 Westheimer Court, Houston, TX 77056-5310	
						REV.	11/09	3/29			YEAR: 2012	W.O. 004110684	SCALE: 1"=40'	DWG. C-355A 10 OF 22 REV.
						TITLE	SIGNATURE	DATE	SIGNATURE	DATE				

PROVIDENCE COUNTY RHODE ISLAND  
TOWN OF BURRILLVILLE

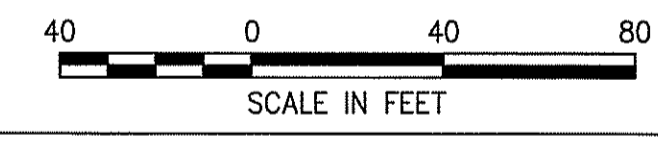


Environmental Management  
APR - 2 2012  
Office of Water Resources

DATE OF AERIAL PHOTOGRAPHY: 3-6-2008

MATCHLINE SEE SHEET (10 OF 22)

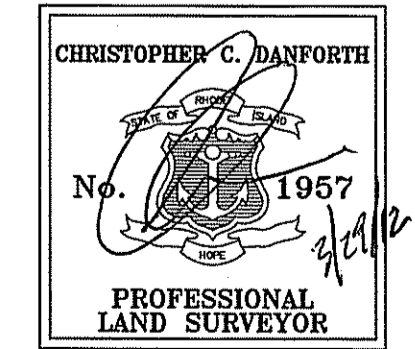
MATCHLINE SEE SHEET (12 OF 22)



LEG 6  
LENGTH = 5345'

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED MAY 11 2012 FILE # 11-0215  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
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NOT FOR CONSTRUCTION

RIGHT-OF-WAY  
TRACT NUMBERS  
OWNERSHIP/AGENCY

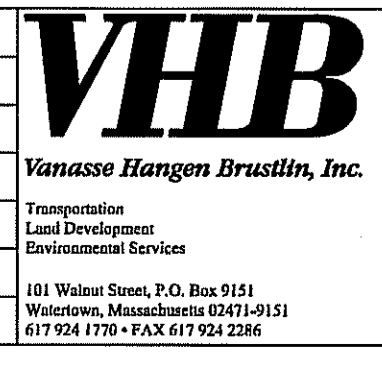
TRACT P-18  
TRACT P-19

SURVEY DATA  
SURVEY COMPANY: VHB WATERTOWN MA  
FIELD BOOK:  
PAGES:

- ALIGNMENT DETAIL
- LEGEND
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  - ⊙ NO COULD NOT OPEN
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DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION
		△			
		△			
		△			
		△			



DRAWN BY:		ENGINEERING APPROVALS	
SLT	REV.	BID	CONSTRUCTION
		11/09	
		3/29	
TITLE	SIGNATURE	DATE	SIGNATURE

MAINLINE  
BURRILLVILLE GROUND BED  
ALIGNMENT SHEET  
LOC. BURRILLVILLE RI  
YEAR: 2012 W.O. 004110684 SCALE: 1"=40'

Spectra Energy  
Algonquin Gas Transmission, LLC  
5400 Westheimer Court, Houston, TX 77056-5310  
DWG. C-355A 11 OF 22 REV.

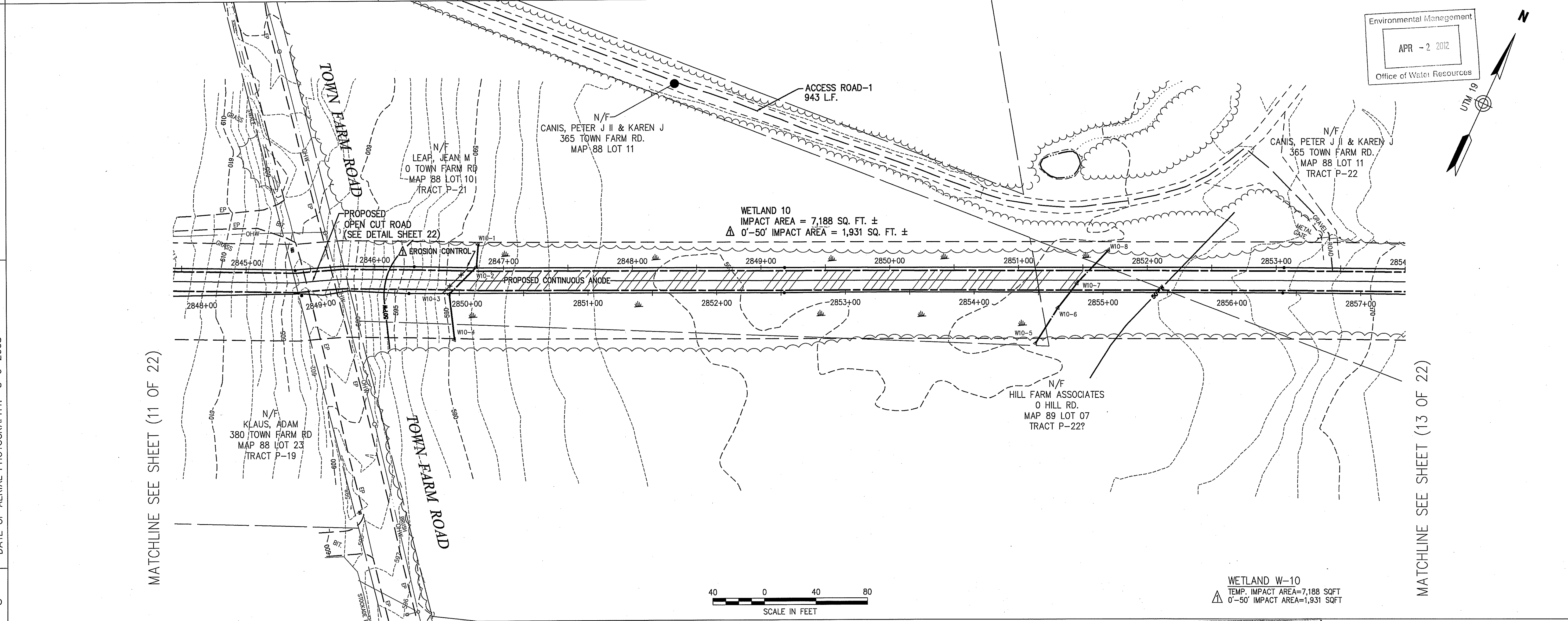
PROVIDENCE COUNTY RHODE ISLAND  
TOWN OF BURRILLVILLE

RIGHT-OF-WAY	TRACT P-20	TRACT P-21	TRACT P-22	TRACT P-22
TRACT NUMBERS	2845+35	2845+35	2851+14	2851+95
OWNERSHIP/AGENCY				
SURVEY DATA	SURVEY COMPANY: VHB WATERTOWN MA FIELD BOOK: PAGES:			

**ALIGNMENT DETAIL**

**LEGEND**

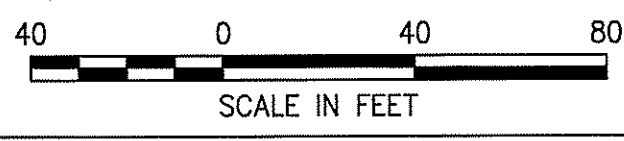
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  - THE EXISTING CONDITIONS SHOWN ON THIS PLAN WERE DEVELOPED FROM A COMBINED EFFORT OF AERIAL PHOTOGRAMMETRIC MAPPING BY COLE-EAST, BASED ON AERIAL PHOTOGRAPHS TAKEN ON MARCH 7, 2008, AND AUGMENTED BY AN ON-THE-GROUND SURVEY PERFORMED BY VHB DURING MAY 2011.
  - HORIZONTAL DATUM IS BASED ON UTM 19 PROJECTIONS, NAD 1983.
  - THE WETLANDS SHOWN ON THIS PLAN WERE DELINEATED IN THE SPRING OF 2011 BY TRC ENVIRONMENTAL CORP. AND FIELD SURVEYED BY VHB IN MAY 2011.
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  - CONTRACTOR TO COMPLY WITH ALL APPLICABLE PROVISIONS OF SPECTRA'S ENVIRONMENTAL CONSTRUCTION EROSION/SEDIMENTATION CONTROL PLAN.
  - THE FINAL IMPLEMENTATION AND LOCATION OF EROSION AND SEDIMENT CONTROLS WILL BE DETERMINED BY A SPECTRA INSPECTOR.
  - ANODE STATIONING IS BASED ON 24" MAINLINE.
  - THERE ARE NO PROPOSED GRADE CHANGES ASSOCIATED WITH THIS PROJECT. EXISTING GRADES SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.

DATE OF AERIAL PHOTOGRAPHY: 3-6-2008



Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED MAY 11 2012 FILE # 11-0215  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

LEG 6  
LENGTH = 5345'

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION
		△			
		△			
		△			
		△			
		△			
		△			

**VHB**  
Yvanisse Hangen Brustlin, Inc.  
Transportation  
Land Development  
Environmental Services  
101 Walnut Street, P.O. Box 9521  
Watertown, Massachusetts 02471-9521  
617 924 1770 • FAX 617 924 2286

ENGINEERING APPROVALS			
DRAWN BY:	BID	CONSTRUCTION	
SLT	11/09		
REV.	3/29		
TITLE	SIGNATURE	DATE	SIGNATURE

**MAINLINE**  
**BURRILLVILLE GROUNDBED**  
ALIGNMENT SHEET  
LOC. BURRILLVILLE RI  
YEAR: 2012 W.O. 004110684 SCALE: 1"=40' DWG. C-355A 12 OF 22 REV.

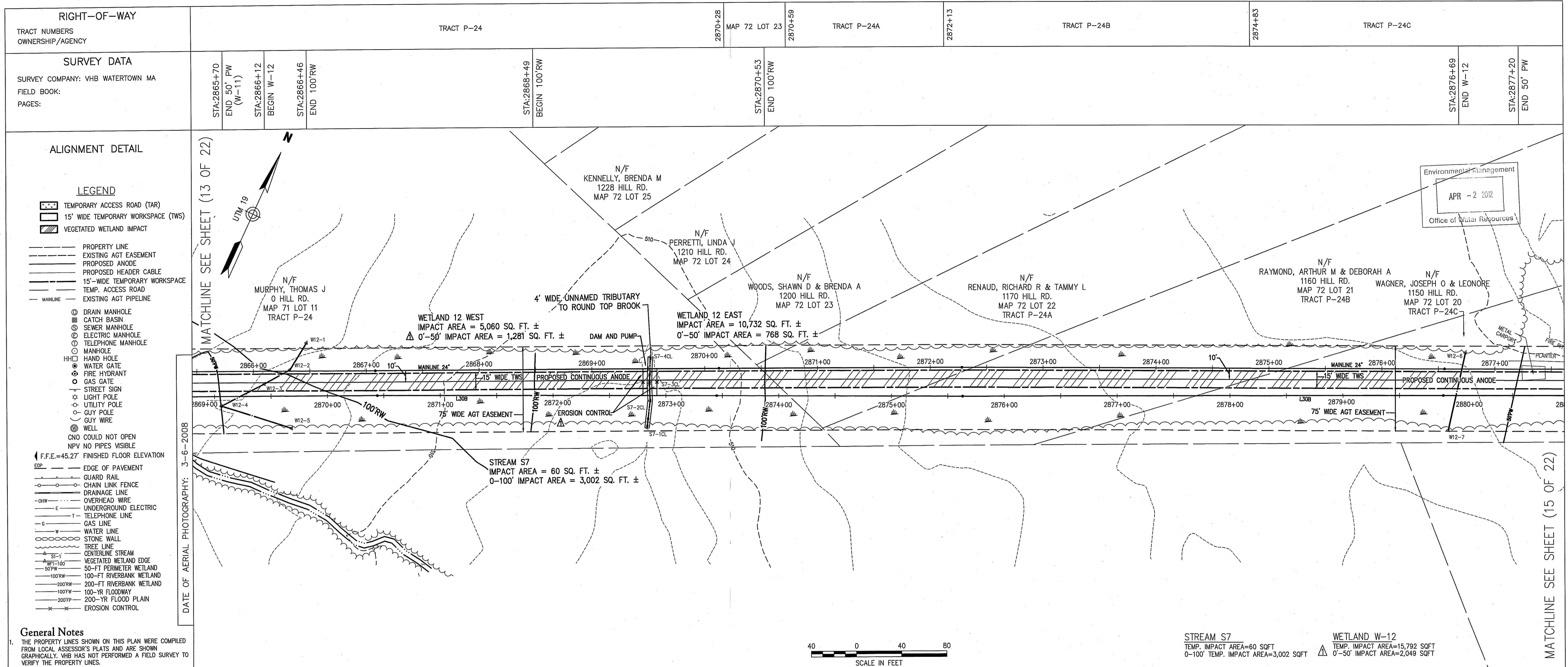
**Spectra Energy**  
Algonquin Gas Transmission, LLC  
5400 Westheimer Court, Houston, TX 77056-5310

CHRISTOPHER C. DANFORTH  
No. 1957  
PROFESSIONAL LAND SURVEYOR

NOT FOR CONSTRUCTION



**PROVIDENCE COUNTY RHODE ISLAND  
TOWN OF BURRILLVILLE**



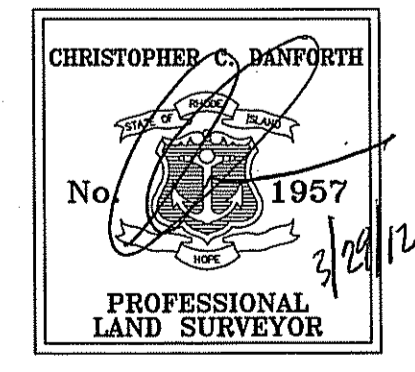
**STREAM S7**  
TEMP. IMPACT AREA=60 SQFT  
0-100' TEMP. IMPACT AREA=3,002 SQFT

**WETLAND W-12**  
TEMP. IMPACT AREA=15,792 SQFT  
0-50' IMPACT AREA=2,049 SQFT

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OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
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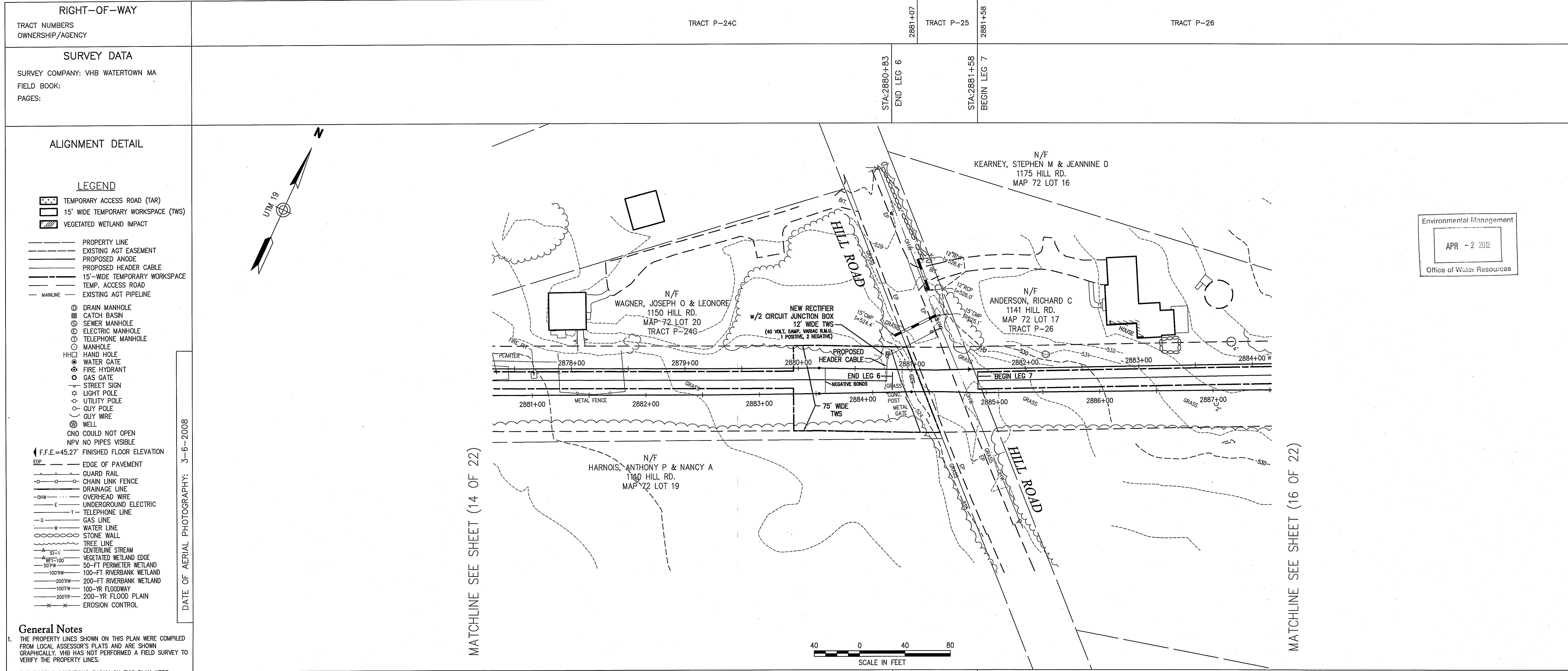
LEG 6  
LENGTH = 5345'



NOT FOR CONSTRUCTION

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	ENGINEERING APPROVALS				MAINLINE BURRILLVILLE GROUNDBED			Spectra Energy Algonquin Gas Transmission, LLC 5400 Westheimer Court, Houston, TX 77056-5310
						DRAWN BY:	BID	CONSTRUCTION	LOC.	YEAR: 2012	W.O. 004110684	SCALE: 1"=40'	
						SLT		11/09					
						REV.		3/29					
						TITLE	SIGNATURE	DATE	SIGNATURE	DATE			

**PROVIDENCE COUNTY RHODE ISLAND  
TOWN OF BURRILLVILLE**



**RIGHT-OF-WAY**  
TRACT NUMBERS  
OWNERSHIP/AGENCY

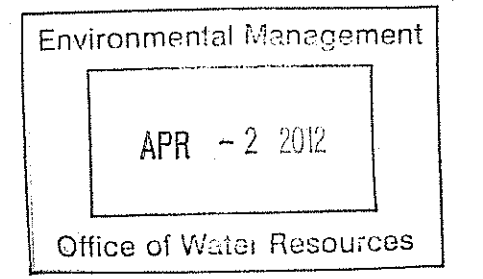
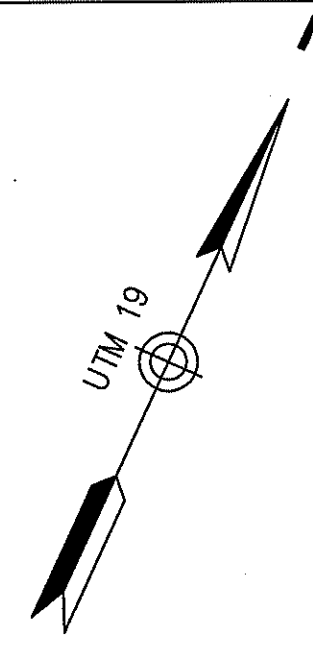
**SURVEY DATA**  
SURVEY COMPANY: VHB WATERTOWN MA  
FIELD BOOK:  
PAGES:

**ALIGNMENT DETAIL**

**LEGEND**

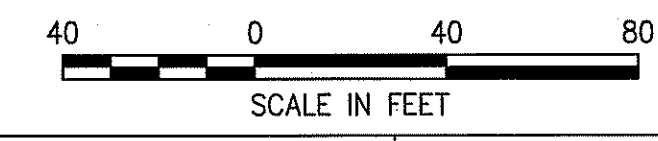
- TEMPORARY ACCESS ROAD (TAR)
- 15' WIDE TEMPORARY WORKSPACE (TWS)
- VEGETATED WETLAND IMPACT
- PROPERTY LINE
- EXISTING AGT EASEMENT
- PROPOSED ANODE
- PROPOSED HEADER CABLE
- 15'-WIDE TEMPORARY WORKSPACE
- TEMP. ACCESS ROAD
- MAINLINE
- EXISTING AGT PIPELINE
- ⊕ DRAIN MANHOLE
- ⊕ CATCH BASIN
- ⊕ SEWER MANHOLE
- ⊕ ELECTRIC MANHOLE
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- ⊕ GUY WIRE
- ⊕ WELL
- CNO COULD NOT OPEN
- NPV NO PIPES VISIBLE
- ⊕ F.F.E.=45.27' FINISHED FLOOR ELEVATION
- EOP --- EDGE OF PAVEMENT
- GUARD RAIL
- CHAIN LINK FENCE
- DRAINAGE LINE
- OHW --- OVERHEAD WIRE
- E --- UNDERGROUND ELECTRIC
- T --- TELEPHONE LINE
- G --- GAS LINE
- W --- WATER LINE
- STONE WALL
- TREE LINE
- CENTERLINE STREAM
- VEGETATED WETLAND EDGE
- 50'PW --- 50-FT PERIMETER WETLAND
- 100'RW --- 100-FT RIVERBANK WETLAND
- 200'RW --- 200-FT RIVERBANK WETLAND
- 100'FW --- 100-YR FLOODWAY
- 200'FP --- 200-YR FLOOD PLAIN
- EROSION CONTROL

DATE OF AERIAL PHOTOGRAPHY: 3-6-2008



MATCHLINE SEE SHEET (14 OF 22)

MATCHLINE SEE SHEET (16 OF 22)

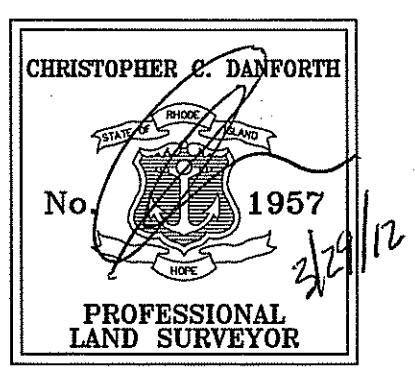


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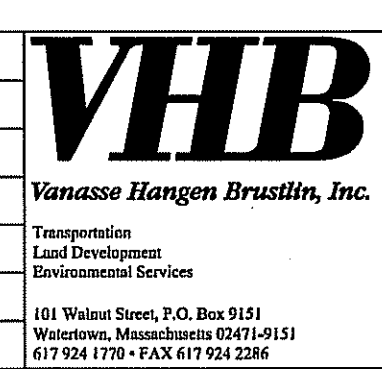
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
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DATED MAY 11 2012 FILE # 11-0215  
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*Margaret D. Weneck*

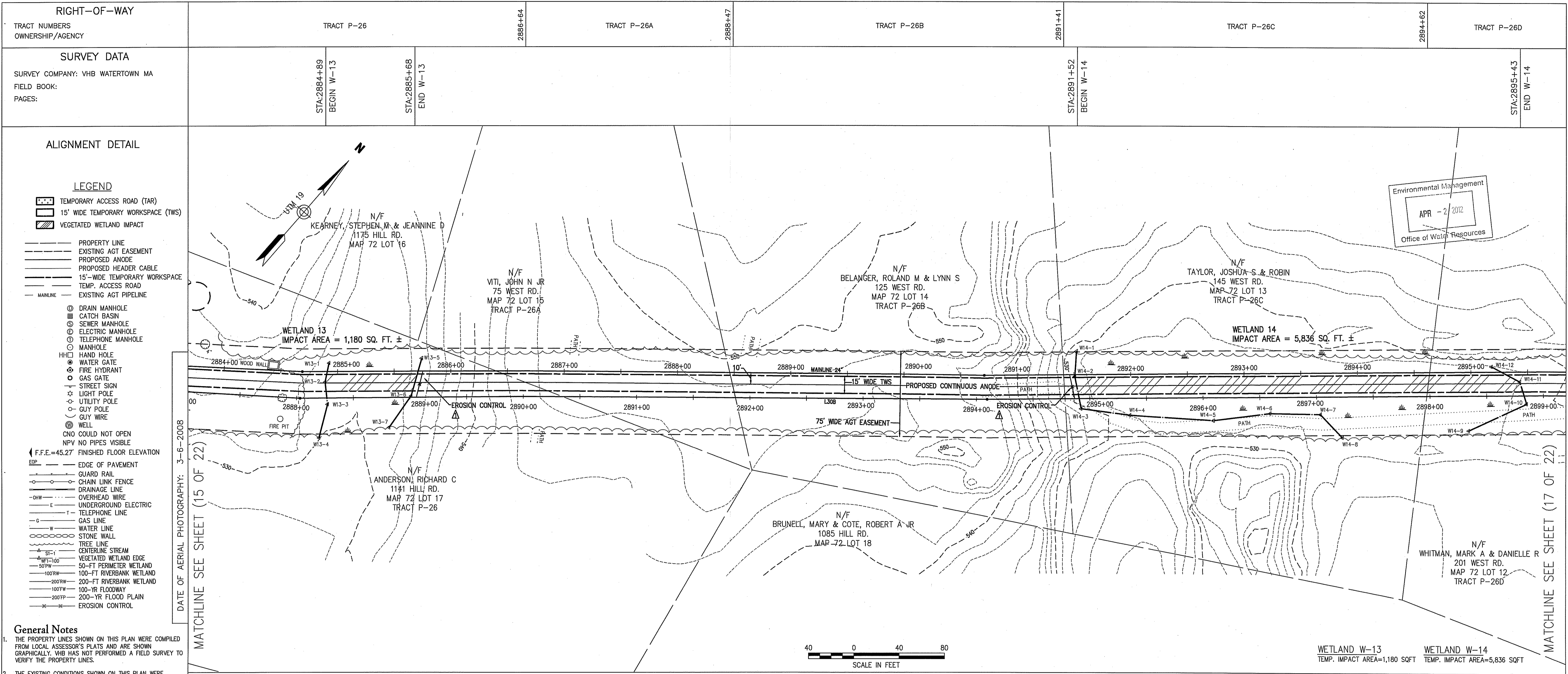


NOT FOR CONSTRUCTION

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	ENGINEERING APPROVALS					MAINLINE BURRILLVILLE GROUNDBED ALIGNMENT SHEET LOC. BURRILLVILLE, RI	Spectra Energy Alconquin Gas Transmission, LLC 5400 Westheimer Court, Houston, TX 77056-5310										
						DRAWN BY:	BID	CONSTRUCTION	TITLE	SIGNATURE			DATE	SIGNATURE	DATE	YEAR: 2012	W.O. 004110684	SCALE: 1"=40'	DWG. C-355A	15 OF 22	REV.	
						SLT		11/09														
						REV.		3/29														



**PROVIDENCE COUNTY RHODE ISLAND  
TOWN OF BURRILLVILLE**

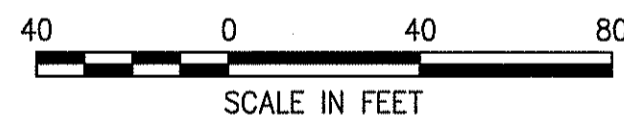


Environmental Management  
APR - 2 2012  
Office of Water Resources

DATE OF AERIAL PHOTOGRAPHY: 3-6-2008

MATCHLINE SEE SHEET (15 OF 22)

MATCHLINE SEE SHEET (17 OF 22)



WETLAND W-13 TEMP. IMPACT AREA=1,180 SQFT  
WETLAND W-14 TEMP. IMPACT AREA=5,836 SQFT

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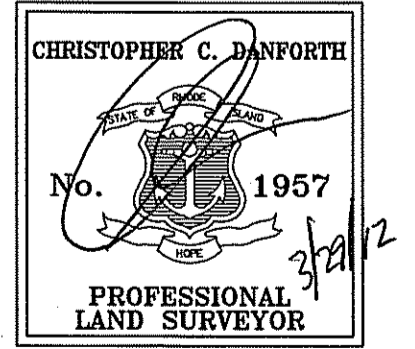
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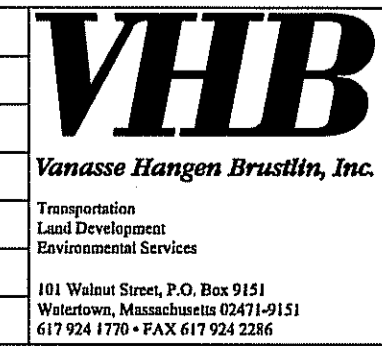
*Christopher C. Danforth*

LEG 7  
LENGTH = 1713'



NOT FOR CONSTRUCTION

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION

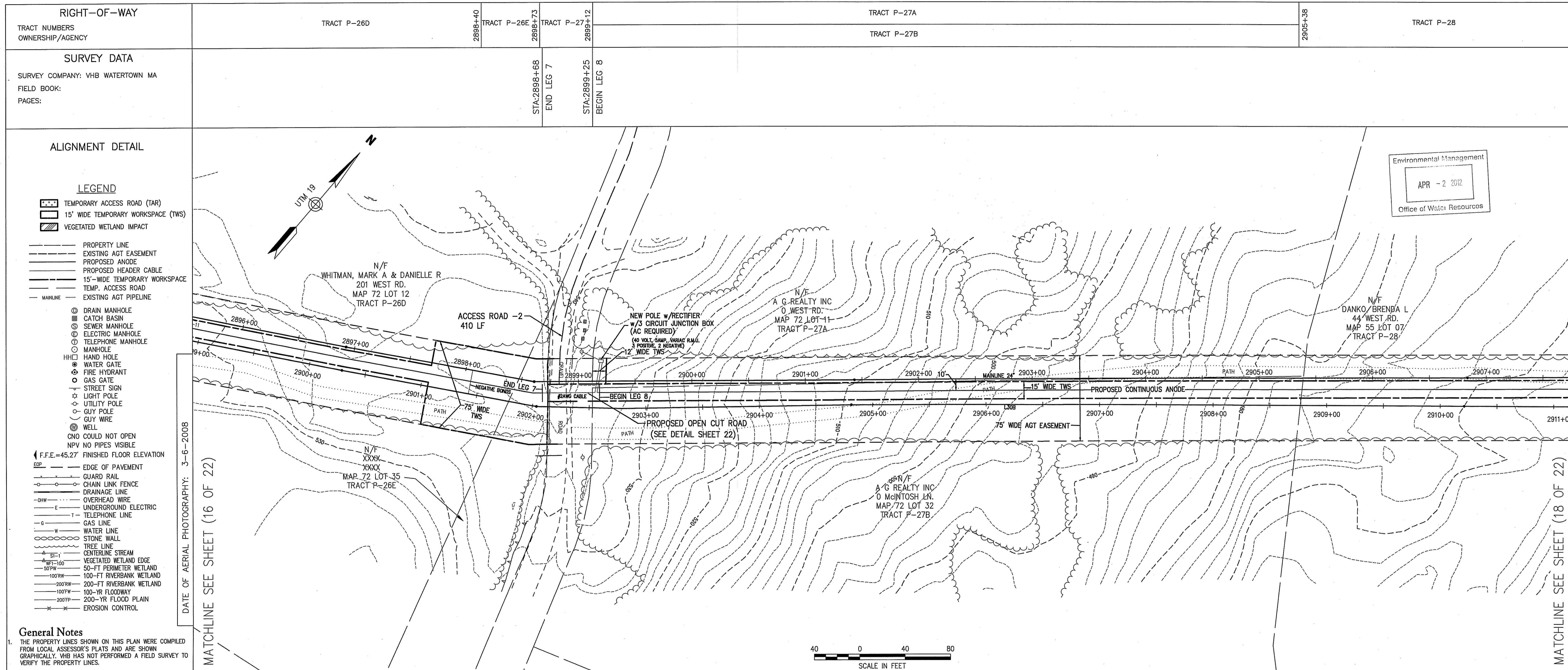


ENGINEERING APPROVALS		CONSTRUCTION	
DRAWN BY:	BID	DATE	DATE
SLT		11/09	
REV.		3/29	
TITLE	SIGNATURE	DATE	SIGNATURE

**MAINLINE  
BURRILLVILLE GROUNDBED**  
ALIGNMENT SHEET  
LOC. BURRILLVILLE RI

**Spectra Energy**  
Algonquin Gas Transmission, LLC  
5400 Westheimer Court, Houston, TX 77056-5310

**PROVIDENCE COUNTY RHODE ISLAND  
TOWN OF BURRILLVILLE**



**RIGHT-OF-WAY**  
TRACT NUMBERS  
OWNERSHIP/AGENCY

**SURVEY DATA**  
SURVEY COMPANY: VHB WATERTOWN MA  
FIELD BOOK:  
PAGES:

- ALIGNMENT DETAIL**
- LEGEND**
- TEMPORARY ACCESS ROAD (TAR)
  - 15' WIDE TEMPORARY WORKSPACE (TWS)
  - VEGETATED WETLAND IMPACT
  - PROPERTY LINE
  - EXISTING AGT EASEMENT
  - PROPOSED ANODE
  - PROPOSED HEADER CABLE
  - 15'-WIDE TEMPORARY WORKSPACE
  - TEMP. ACCESS ROAD
  - MAINLINE
  - EXISTING AGT PIPELINE
  - DRAIN MANHOLE
  - CATCH BASIN
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  - TELEPHONE MANHOLE
  - MANHOLE
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  - WATER GATE
  - FIRE HYDRANT
  - GAS GATE
  - STREET SIGN
  - LIGHT POLE
  - UTILITY POLE
  - GUY POLE
  - GUY WIRE
  - WELL
  - CNO COULD NOT OPEN
  - NPV NO PIPES VISIBLE
  - F.F.E.=45.27' FINISHED FLOOR ELEVATION
  - EDGE OF PAVEMENT
  - GUARD RAIL
  - CHAIN LINK FENCE
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  - TELEPHONE LINE
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  - 50-FW 50-FT PERIMETER WETLAND
  - 100RW 100-FT RIVERBANK WETLAND
  - 200RW 200-FT RIVERBANK WETLAND
  - 100FW 100-YR FLOODWAY
  - 200FP 200-YR FLOOD PLAIN
  - EROSION CONTROL

**General Notes**

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DATE OF AERIAL PHOTOGRAPHY: 3-6-2008

MATCHLINE SEE SHEET (16 OF 22)

MATCHLINE SEE SHEET (18 OF 22)

Environmental Management  
APR - 2 2012  
Office of Water Resources



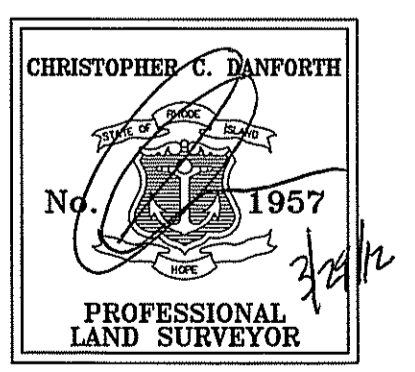
LEG 7  
LENGTH = 1713'

LEG 8  
LENGTH = 1574'

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
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*Christopher C. Danforth*



NOT FOR CONSTRUCTION

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	<b>VHB</b> Yanasse Hangen Brustlin, Inc. Transportation Land Development Environmental Services 101 Walnut Street, P.O. Box 9151 Watertown, Massachusetts 02471-9151 617-924-1770 • FAX 617-924-2386				ENGINEERING APPROVALS DRAWN BY: SLT REV: 1 BID: 11/09 CONSTRUCTION: 3/29				MAINLINE BURRILLVILLE GROUNDBED ALIGNMENT SHEET LOC. BURRILLVILLE RI				Spectra Energy Algonquin Gas Transmission, LLC 5400 Westheimer Court, Houston, TX 77056-5310			
						TITLE	SIGNATURE	DATE	SIGNATURE	DATE	YEAR: 2012	W.O. 004110684	SCALE: 1"=40'	DWG. C-355A	17 OF 22	REV.					

**PROVIDENCE COUNTY RHODE ISLAND  
TOWN OF BURRILLVILLE**

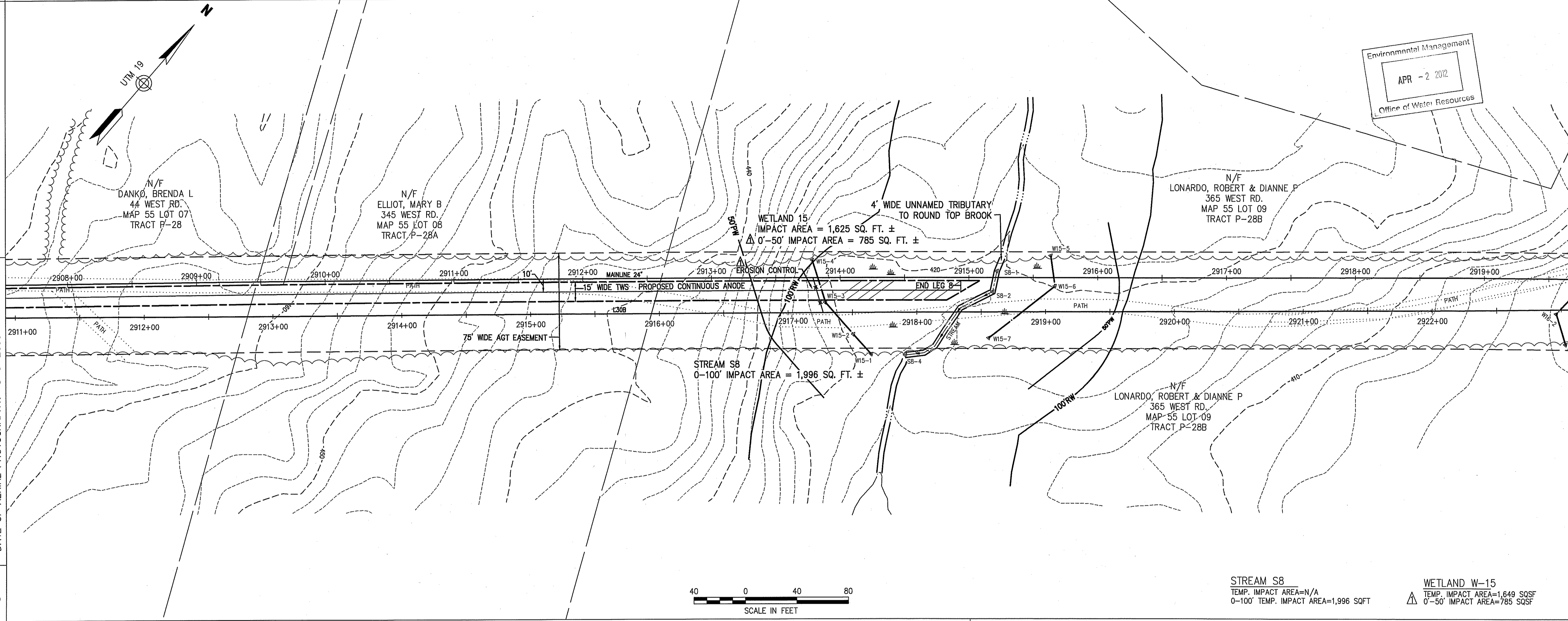
RIGHT-OF-WAY TRACT NUMBERS OWNERSHIP/AGENCY	TRACT P-28 2909+45	TRACT P-28A 2912+58	TRACT P-28B
SURVEY DATA SURVEY COMPANY: VHB WATERTOWN MA FIELD BOOK: PAGES:			STA:2913+32 BEGIN 50' PW STA:2913+63 BEGIN 100' RW STA:2913+86 BEGIN W-15  STA:2914+94 END W-15 END LEG 8

**ALIGNMENT DETAIL**

**LEGEND**

- TEMPORARY ACCESS ROAD (TAR)
- 15' WIDE TEMPORARY WORKSPACE (TWS)
- VEGETATED WETLAND IMPACT
- PROPERTY LINE
- EXISTING AGT EASEMENT
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- PROPOSED HEADER CABLE
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- 200-YR FLOOD PLAIN
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DATE OF AERIAL PHOTOGRAPHY: 3-6-2008



Environmental Management  
APR - 2 2012  
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LEG 8  
LENGTH = 1574'

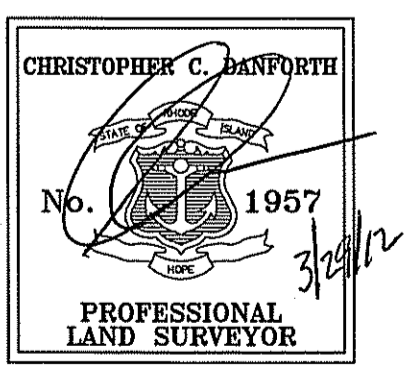


STREAM SB  
TEMP. IMPACT AREA=N/A  
0-100' TEMP. IMPACT AREA=1,996 SQFT

WETLAND W-15  
TEMP. IMPACT AREA=1,649 SQSF  
0'-50' IMPACT AREA=785 SQSF

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED MAY 11 2012 FILE # 11-0215  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



NOT FOR CONSTRUCTION

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	 Vanasse Hangen Brustlin, Inc. Transportation Land Development Environmental Services 100 Walnut Street, P.O. Box 9151 Worcester, Massachusetts 01491-9151 617 924 1770 • FAX 617 924 2286	ENGINEERING APPROVALS				MAINLINE BURRILLVILLE GROUND BED ALIGNMENT SHEET LOC. BURRILLVILLE RI YEAR: 2012 W.O. 004110684 SCALE: 1"=40' DWG. C-355A 18 OF 22 REV.	 Algonquin Gas Transmission, LLC 5400 Westheimer Court, Houston, TX 77056-5310								
								DRAWN BY: SLT	BID	CONSTRUCTION										
							REV.	11/09	3/29											
							TITLE	SIGNATURE	DATE	SIGNATURE	DATE									

PROVIDENCE COUNTY RHODE ISLAND  
TOWN OF BURRILLVILLE

RIGHT-OF-WAY TRACT NUMBERS OWNERSHIP/AGENCY	TRACT P-33 2967+48	TRACT P-33A	2971+94	TRACT P-34 2972+59	TRACT P-35
SURVEY DATA SURVEY COMPANY: VHB WATERTOWN MA FIELD BOOK: PAGES:	STA:2969+33 BEGIN LEG 9		STA:2972+68 BEGIN W-22	STA:2973+53 END W-22	STA:2975+96 BEGIN W-23

**ALIGNMENT DETAIL**

**LEGEND**

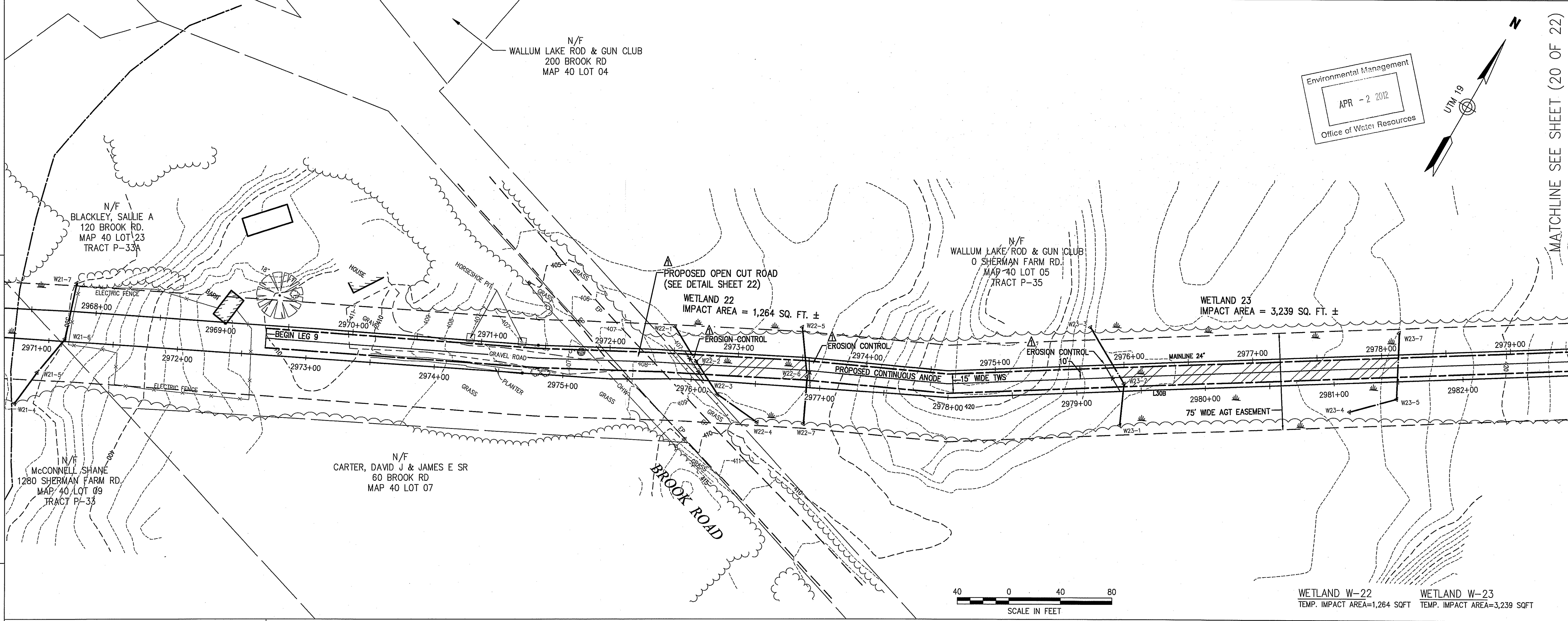
- TEMPORARY ACCESS ROAD (TAR)
- 15' WIDE TEMPORARY WORKSPACE (TWS)
- VEGETATED WETLAND IMPACT
- PROPERTY LINE
- EXISTING AGT EASEMENT
- PROPOSED ANODE
- PROPOSED HEADER CABLE
- 15'-WIDE TEMPORARY WORKSPACE
- TEMP. ACCESS ROAD
- MAINLINE
- EXISTING AGT PIPELINE
- DRAIN MANHOLE
- CATCH BASIN
- SEWER MANHOLE
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- MANHOLE
- HAND HOLE
- WATER GATE
- FIRE HYDRANT
- GAS GATE
- STREET SIGN
- LIGHT POLE
- UTILITY POLE
- GUY WIRE
- WELL
- CNO COULD NOT OPEN
- NPV NO PIPES VISIBLE
- F.F.E.=45.27 FINISHED FLOOR ELEVATION
- EDGE OF PAVEMENT
- GUARD RAIL
- CHAIN LINK FENCE
- DRAINAGE LINE
- OVERHEAD WIRE
- UNDERGROUND ELECTRIC
- TELEPHONE LINE
- GAS LINE
- WATER LINE
- STONE WALL
- TREE LINE
- CENTERLINE STREAM
- VEGETATED WETLAND EDGE
- 50-FT PERIMETER WETLAND
- 100-FT RIVERBANK WETLAND
- 200-FT RIVERBANK WETLAND
- 100-YR FLOODWAY
- 200-YR FLOOD PLAIN
- EROSION CONTROL

**General Notes**

- THE PROPERTY LINES SHOWN ON THIS PLAN WERE COMPILED FROM LOCAL ASSESSOR'S PLATS AND ARE SHOWN GRAPHICALLY. VHB HAS NOT PERFORMED A FIELD SURVEY TO VERIFY THE PROPERTY LINES.
- THE EXISTING CONDITIONS SHOWN ON THIS PLAN WERE DEVELOPED FROM A COMBINED EFFORT OF AERIAL PHOTOGRAMMETRIC MAPPING BY COLE-EAST, BASED ON AERIAL PHOTOGRAPHS TAKEN ON MARCH 7, 2008, AND AUGMENTED BY AN ON-THE-GROUND SURVEY PERFORMED BY VHB DURING MAY 2011.
- HORIZONTAL DATUM IS BASED ON UTM 19 PROJECTIONS, NAD 1983.
- THE WETLANDS SHOWN ON THIS PLAN WERE DELINEATED IN THE SPRING OF 2011 BY TRC ENVIRONMENTAL CORP. AND FIELD SURVEYED BY VHB IN MAY 2011.
- PROPOSED CONSTRUCTION AND TYPICALS WERE DESIGNED BY OTHERS AND ARE SHOWN FOR GRAPHICAL PURPOSES ONLY.

**Construction Notes**

- ANY NECESSARY TRENCH DE-WATERING TO BE DIRECTED TO FILTER BAGS OR EQUIVALENT IN A MANNER SO AS NOT TO CAUSE EROSION/SEDIMENTATION.
- CONTRACTOR TO COMPLY WITH ALL APPLICABLE PROVISIONS OF SPECTRA'S ENVIRONMENTAL CONSTRUCTION EROSION/SEDIMENTATION CONTROL PLAN.
- THE FINAL IMPLEMENTATION AND LOCATION OF EROSION AND SEDIMENT CONTROLS WILL BE DETERMINED BY A SPECTRA INSPECTOR.
- ANODE STATIONING IS BASED ON 24" MAINLINE.
- THERE ARE NO PROPOSED GRADE CHANGES ASSOCIATED WITH THIS PROJECT. EXISTING GRADES SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.



DATE OF AERIAL PHOTOGRAPHY: 3-6-2008

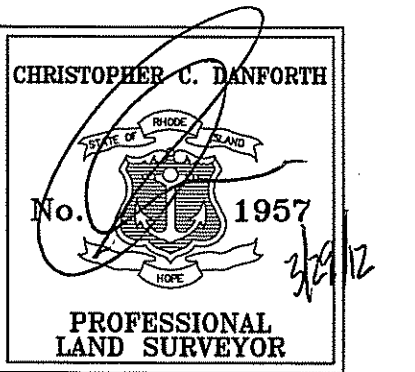
LEG 9  
LENGTH = 2701'

STA:2969+32  
BEGIN LEG 9

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

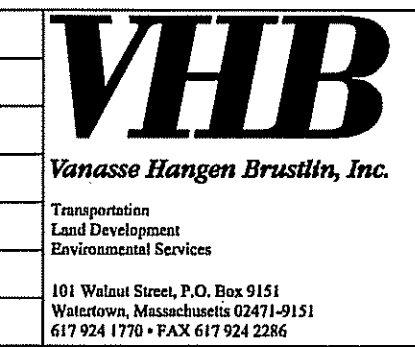
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
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*Margaret D. Wenczek*



NOT FOR CONSTRUCTION

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	ENGINEERING APPROVALS	MAINLINE BURRILLVILLE GROUND BED	Spectra Energy
						DRAWN BY: SLT REV. 11/09 3/29	ALIGNMENT SHEET LOC. BURRILLVILLE RI	Algonquin Gas Transmission, LLC 5400 Westheimer Court, Houston, TX 77056-5310
						TITLE SIGNATURE DATE	YEAR: 2012 W.O. 004110684 SCALE: 1"=40'	DWG. C-355A 19 OF 22 REV.



PROVIDENCE COUNTY RHODE ISLAND  
TOWN OF BURRILLVILLE

TRACT P-35

RIGHT-OF-WAY

TRACT NUMBERS  
OWNERSHIP/AGENCY

SURVEY DATA

SURVEY COMPANY: VHB WATERTOWN MA  
FIELD BOOK:  
PAGES:

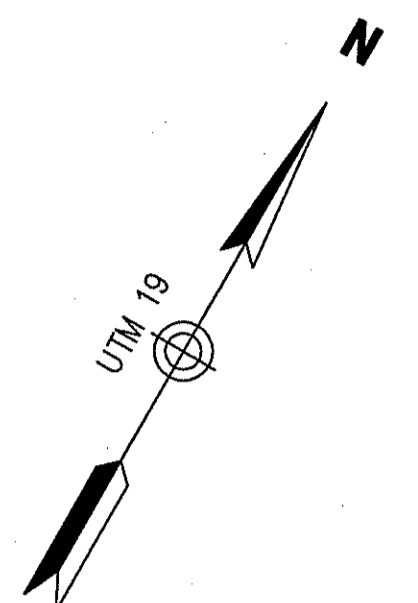
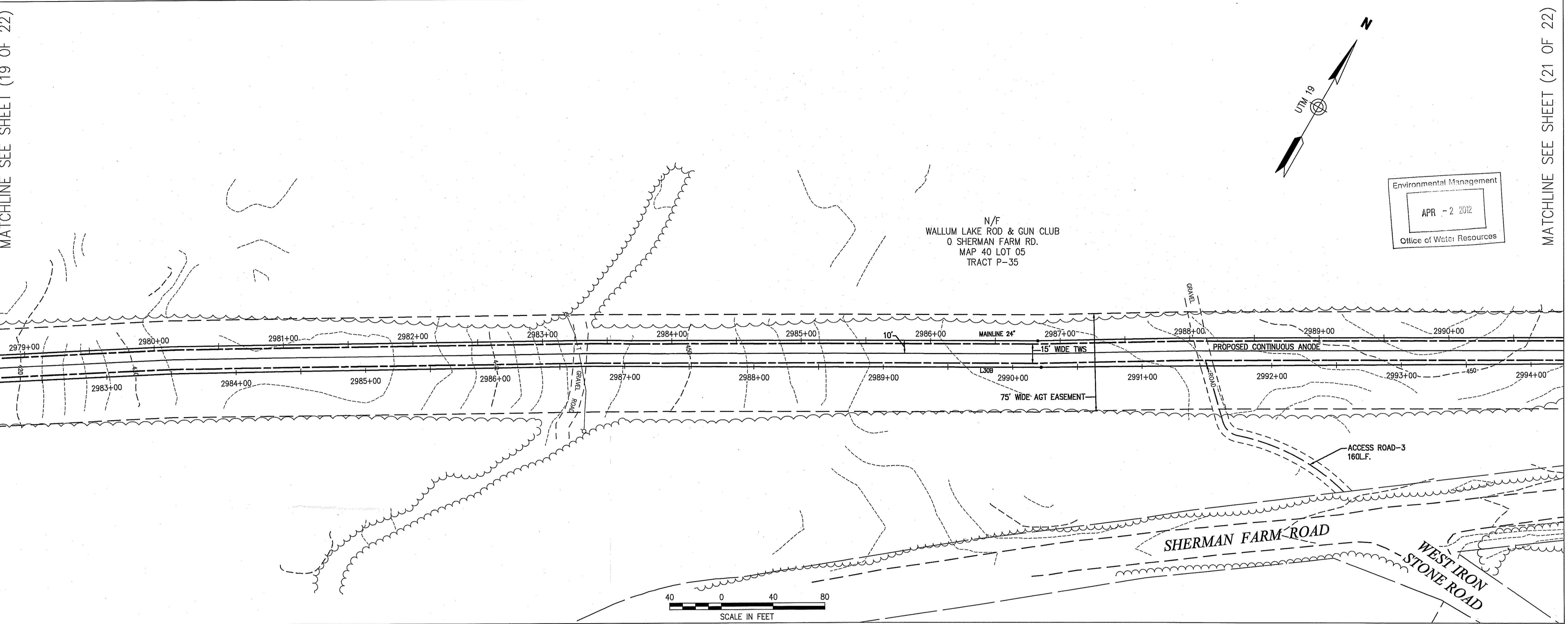
ALIGNMENT DETAIL

LEGEND

- TEMPORARY ACCESS ROAD (TAR)
- 15' WIDE TEMPORARY WORKSPACE (TWS)
- VEGETATED WETLAND IMPACT
- PROPERTY LINE
- EXISTING AGT EASEMENT
- PROPOSED ANODE
- PROPOSED HEADER CABLE
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- GUY WIRE
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- NPV NO PIPES VISIBLE
- F.F.E.=45.27' FINISHED FLOOR ELEVATION
- EXP. EDGE OF PAVEMENT
- GUARD RAIL
- CHAIN LINK FENCE
- DRAINAGE LINE
- OVERHEAD WIRE
- UNDERGROUND ELECTRIC
- TELEPHONE LINE
- GAS LINE
- WATER LINE
- STONE WALL
- TREE LINE
- CENTERLINE STREAM
- VEGETATED WETLAND EDGE
- 50'FW 50-FT PERIMETER WETLAND
- 100'RW 100-FT RIVERBANK WETLAND
- 200'RW 200-FT RIVERBANK WETLAND
- 100'FW 100-YR FLOODWAY
- 200'FP 200-YR FLOOD PLAIN
- EROSION CONTROL

MATCHLINE SEE SHEET (19 OF 22)

DATE OF AERIAL PHOTOGRAPHY: 3-6-2008

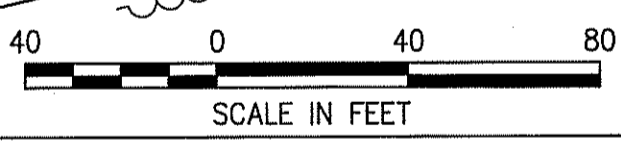


Environmental Management  
APR - 2 2012  
Office of Water Resources

MATCHLINE SEE SHEET (21 OF 22)

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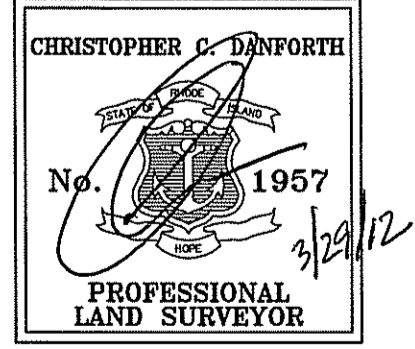


LEG 9  
LENGTH = 2701'

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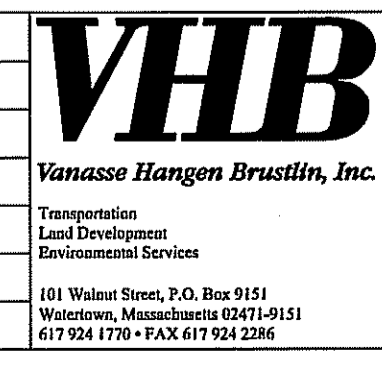
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
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*Martin D. Wenzel*



NOT FOR CONSTRUCTION

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION
		△			
		△			
		△			
		△			
		△			
		△			



ENGINEERING APPROVALS		CONSTRUCTION	
DRAWN BY:	BID	DATE	DATE
SLT		11/09	
REV.		3/29	
TITLE	SIGNATURE	DATE	SIGNATURE

**MAINLINE  
BURRILLVILLE GROUNDBED**  
ALIGNMENT SHEET  
LOC. BURRILLVILLE RI

**Spectra Energy**  
Algonquin Gas Transmission, LLC  
5400 Westheimer Court, Houston, TX 77056-5310  
YEAR: 2012 W.O. 004110684 SCALE: 1"=40' DWG. C-355A 20 OF 22 REV.

**PROVIDENCE COUNTY RHODE ISLAND  
TOWN OF BURRILLVILLE**

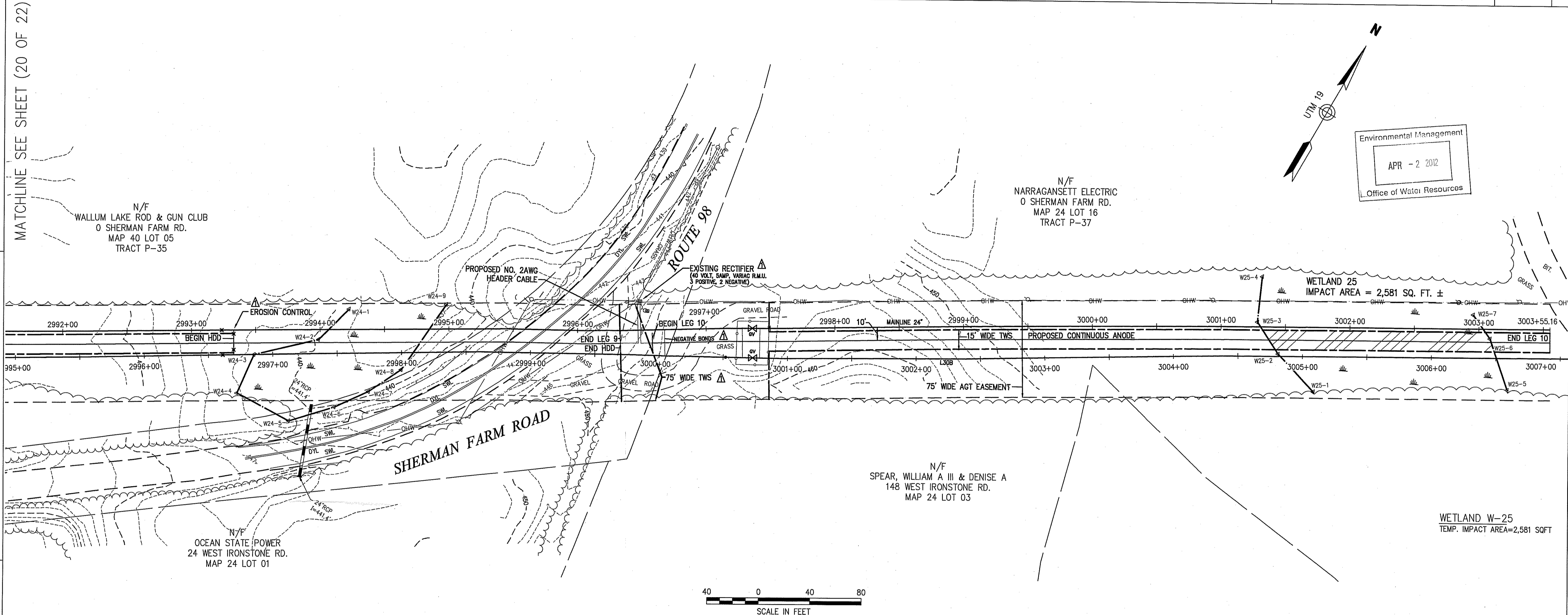
RIGHT-OF-WAY	TRACT P-35	TRACT P-36	TRACT P-37
TRACT NUMBERS	2995+11	2996+72	
OWNERSHIP/AGENCY			

**SURVEY DATA**  
 SURVEY COMPANY: VHB WATERTOWN MA  
 FIELD BOOK:  
 PAGES:

**ALIGNMENT DETAIL**

**LEGEND**

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DATE OF AERIAL PHOTOGRAPHY: 3-6-2008

WETLAND 25 IMPACT AREA = 2,581 SQ. FT. ±

WETLAND W-25 TEMP. IMPACT AREA=2,581 SQFT

LEG 10 LENGTH = 697'

SCALE IN FEET

Environmental Management  
APR - 2 2012  
Office of Water Resources

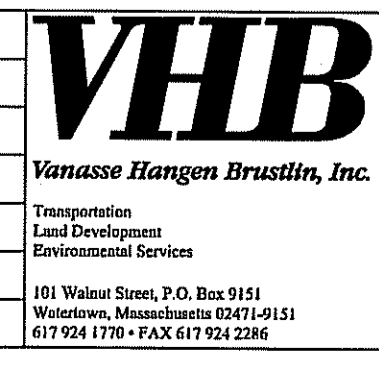
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
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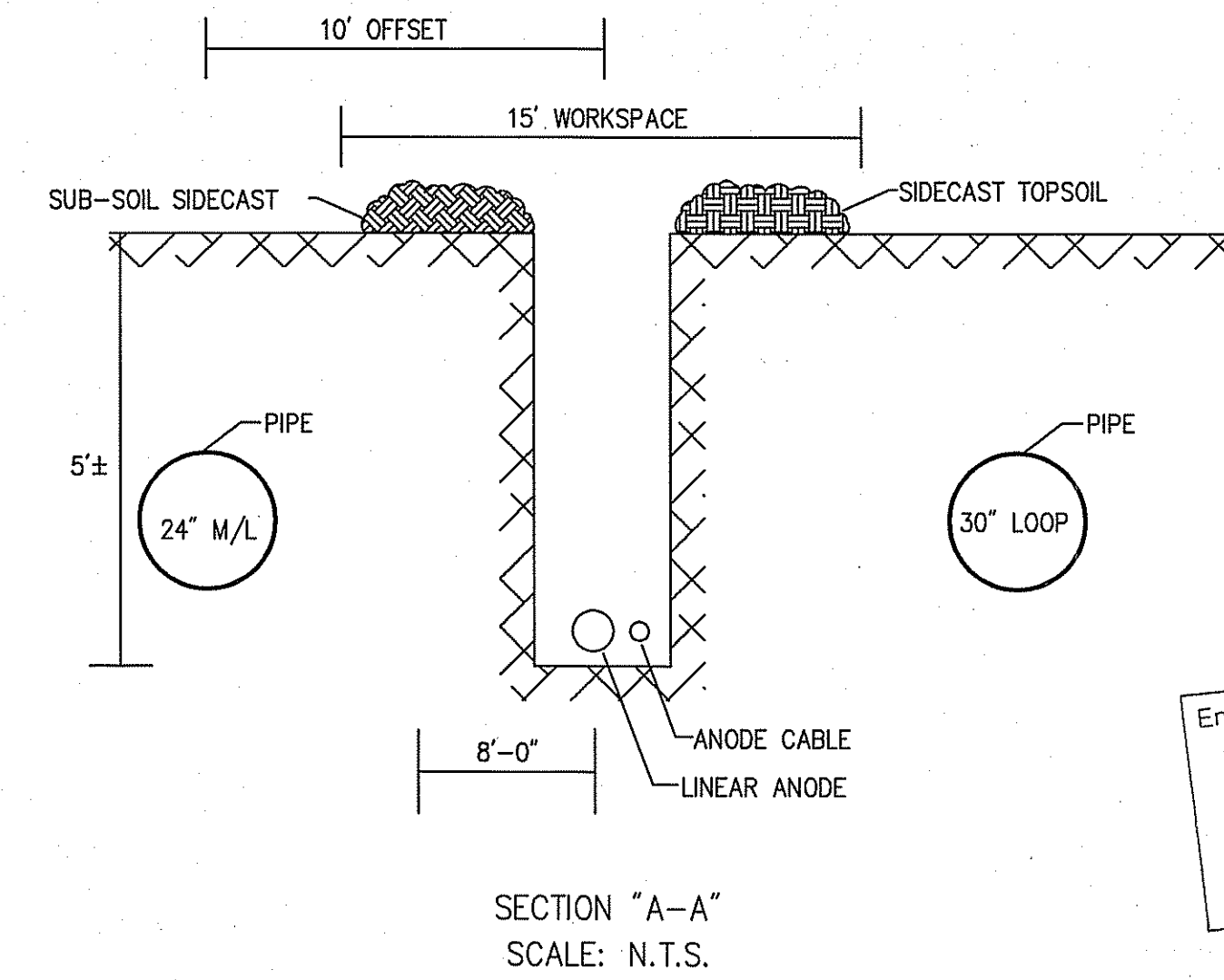
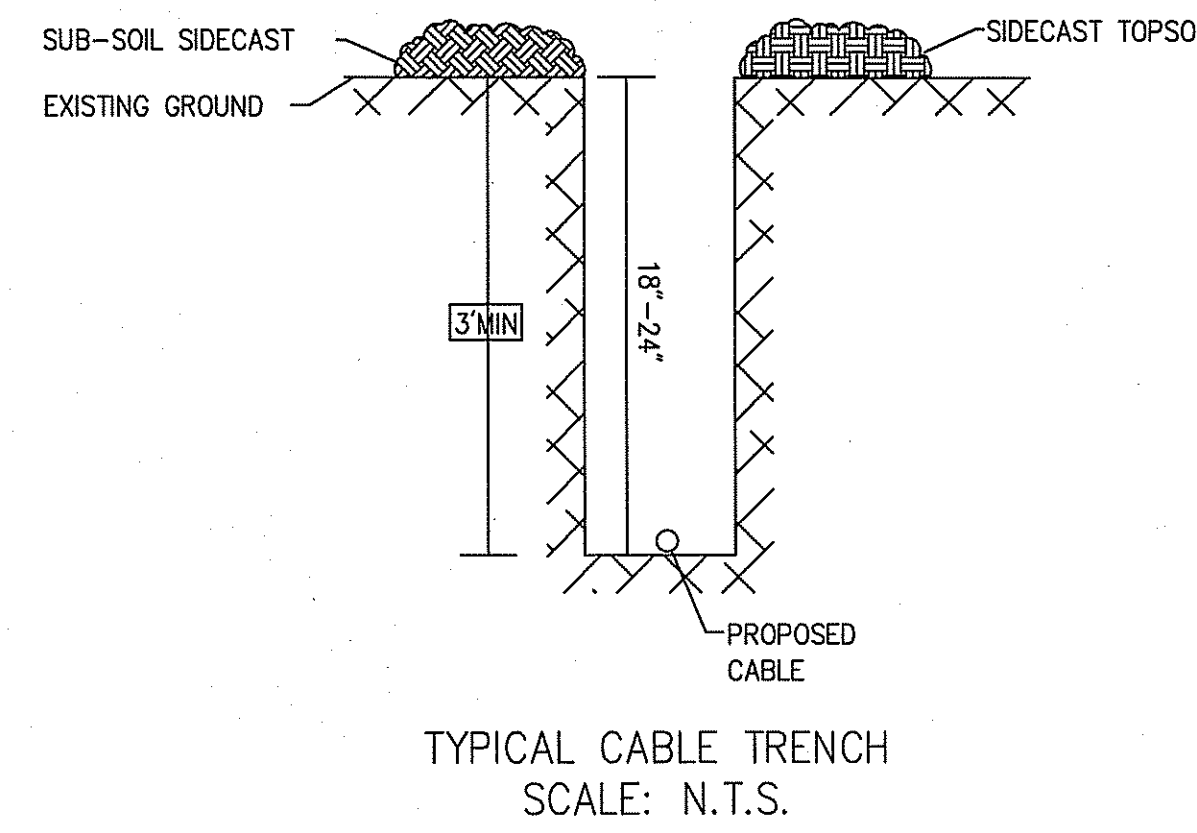
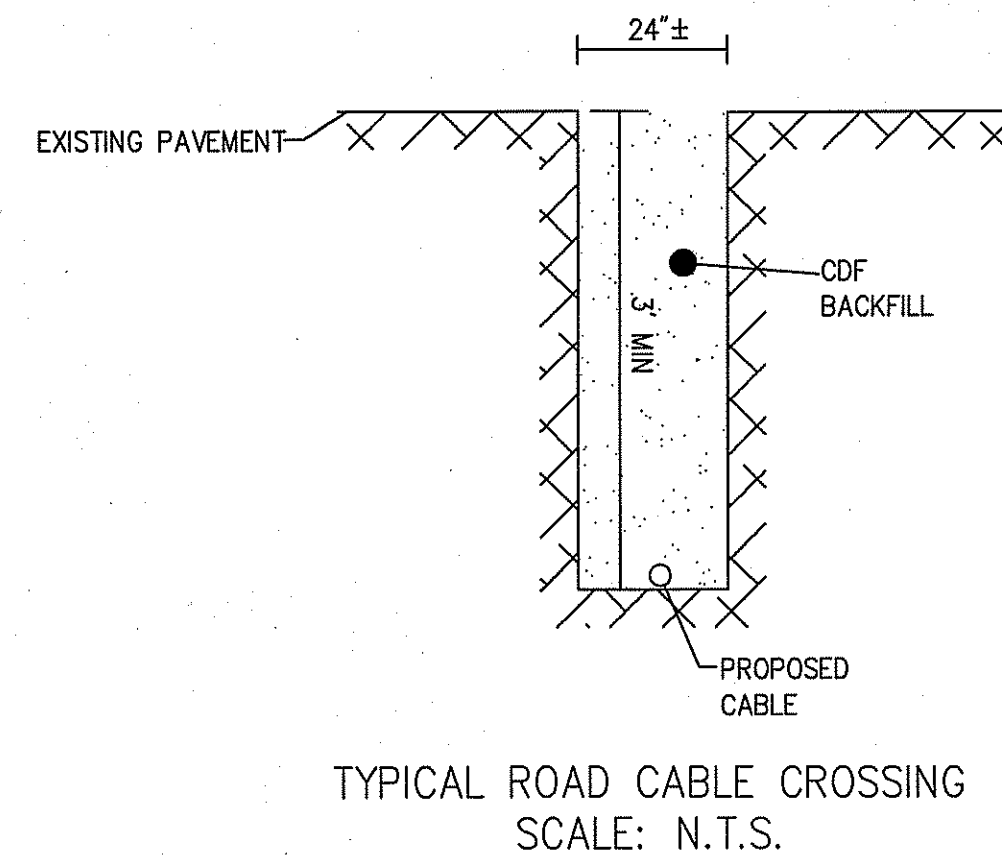
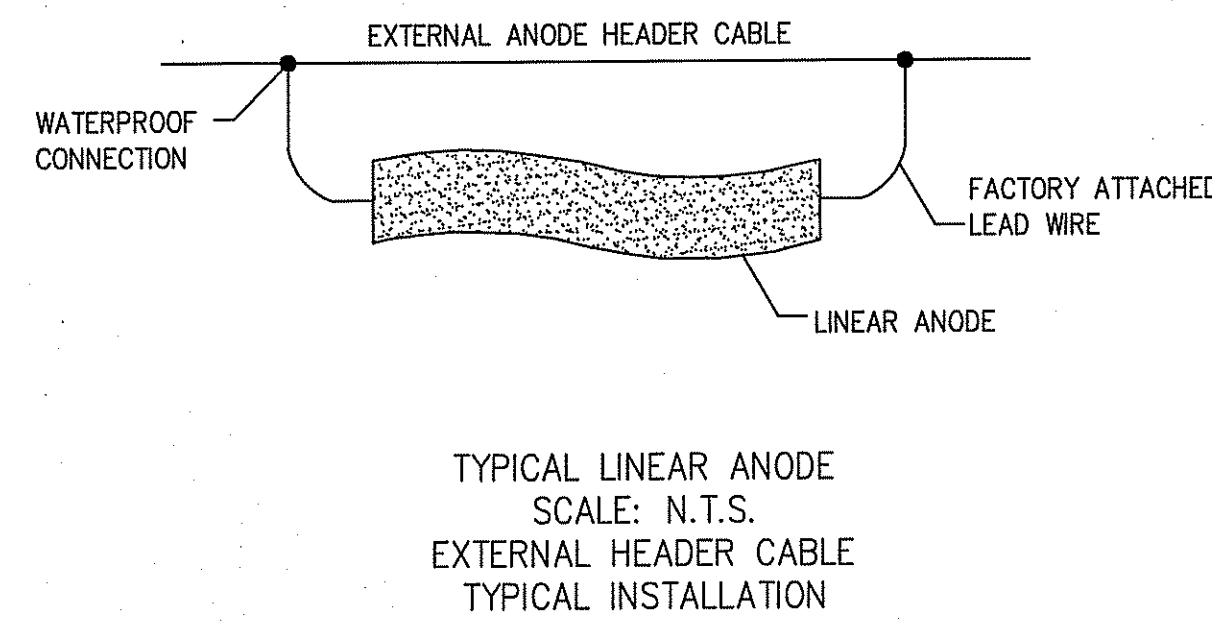
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

Christopher C. Danforth  
No. 1957  
PROFESSIONAL LAND SURVEYOR

**NOT FOR CONSTRUCTION**

DWG. NO.	REFERENCE DWG.	REV	DSN	CK	DESCRIPTION	ENGINEERING APPROVALS				MAINLINE BURRILLVILLE GROUND BED ALIGNMENT SHEET		Spectra Energy	
						DRAWN BY:	BID	CONSTRUCTION			LOC.	BURRILLVILLE RI	ALGONQUIN GAS TRANSMISSION, LLC
						SLT					YEAR:	2012	W.O. 004110684
						REV.					SCALE:	1"=40'	DWG. C-355A
													21 OF 22
						TITLE	SIGNATURE	DATE	SIGNATURE	DATE			REV.

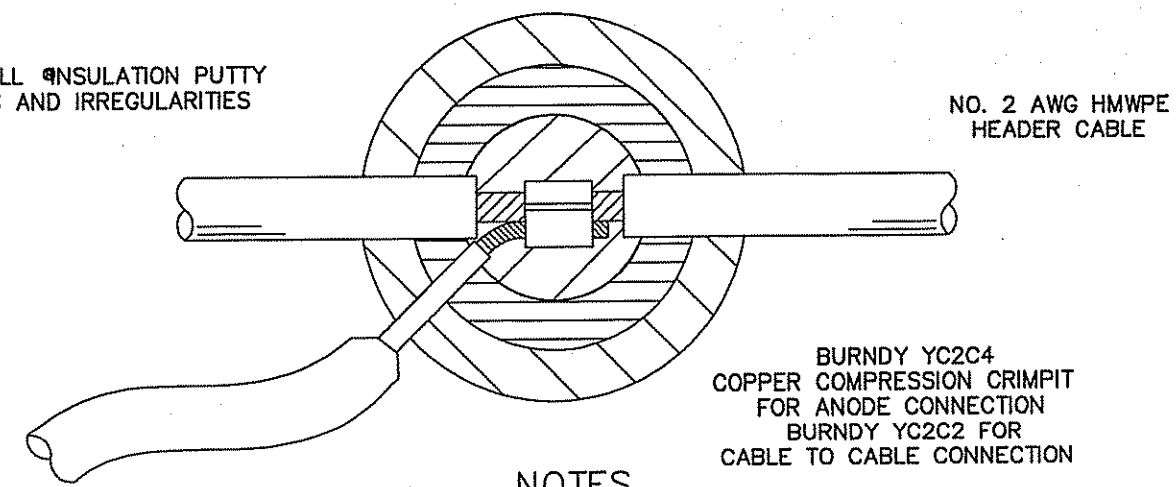




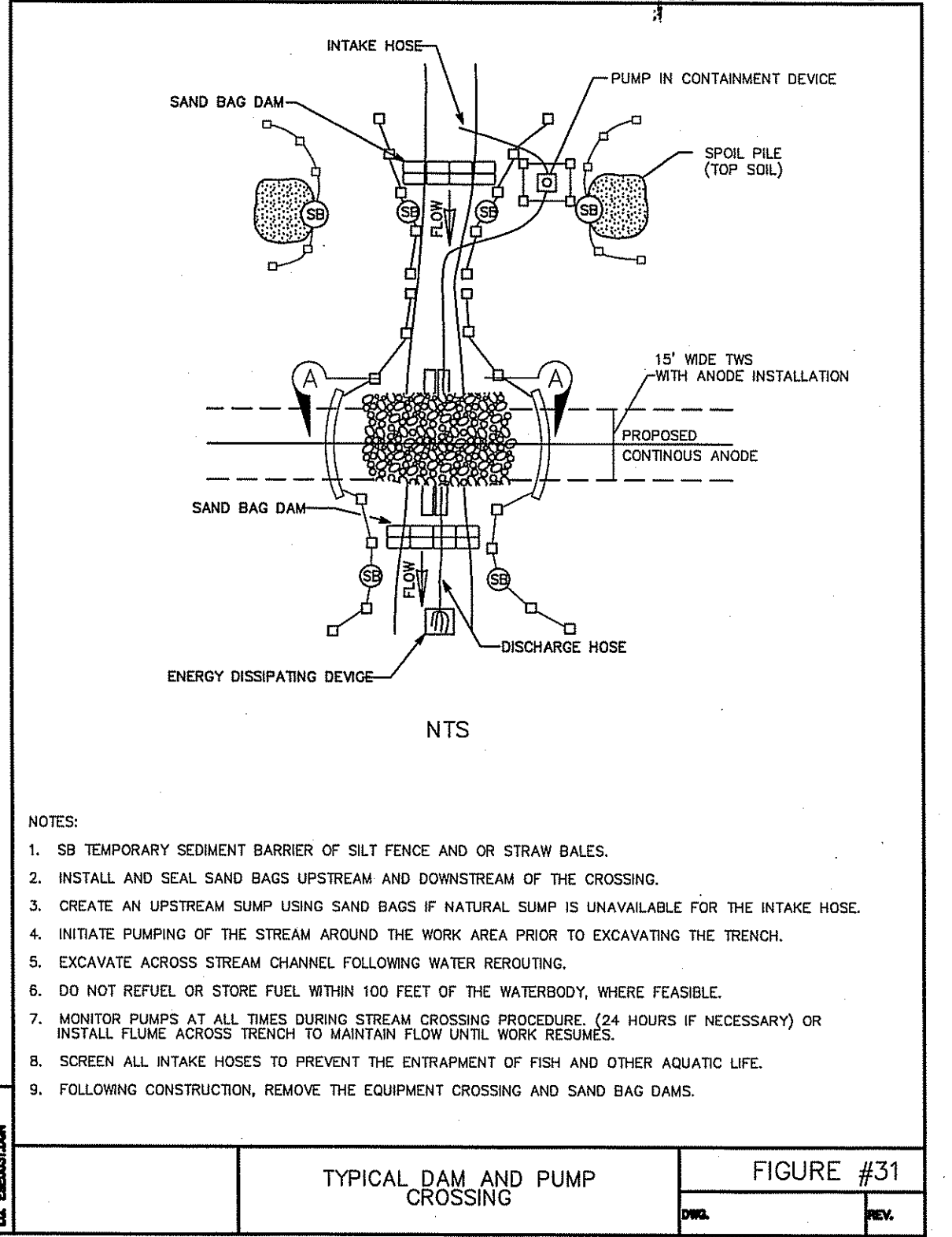
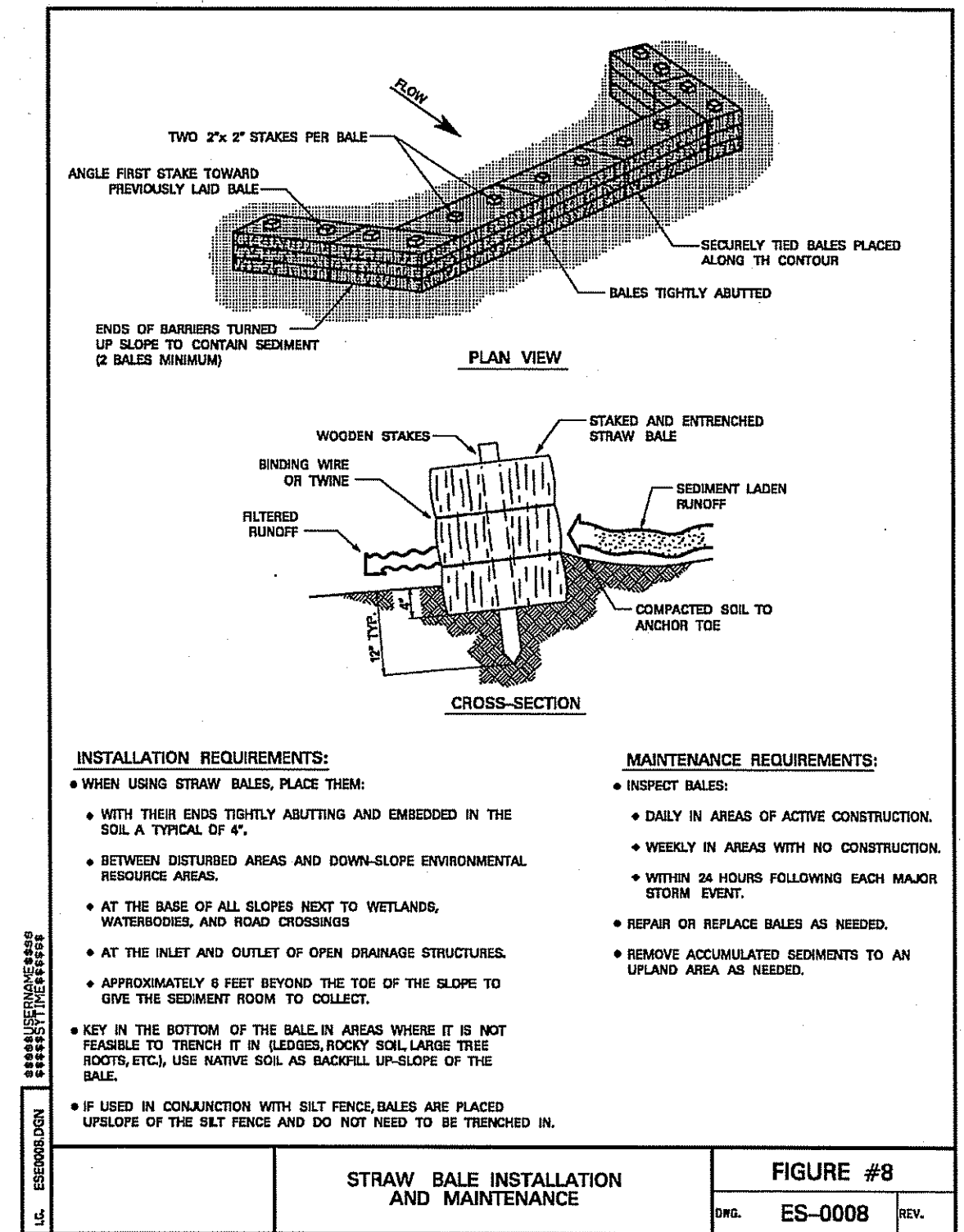
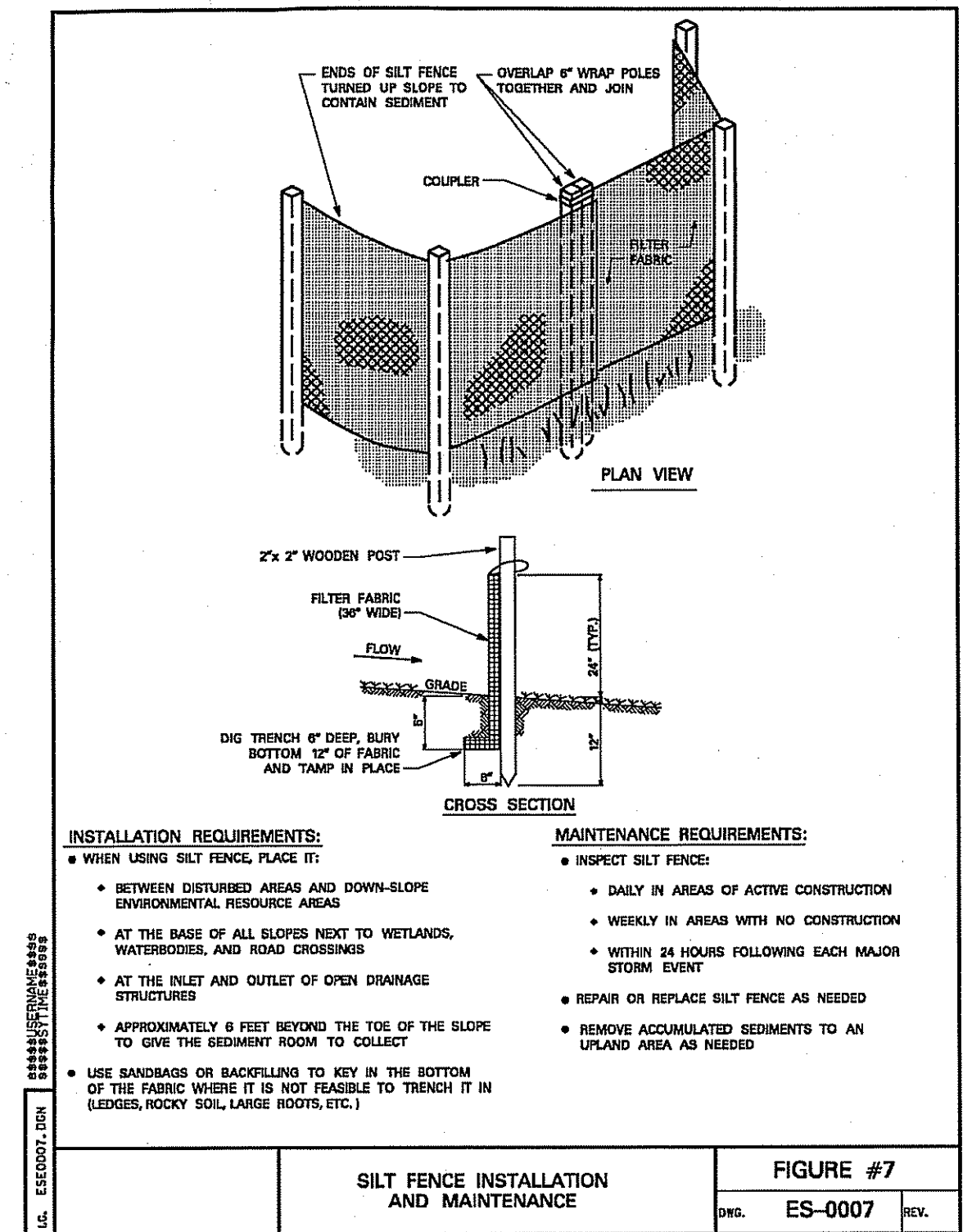
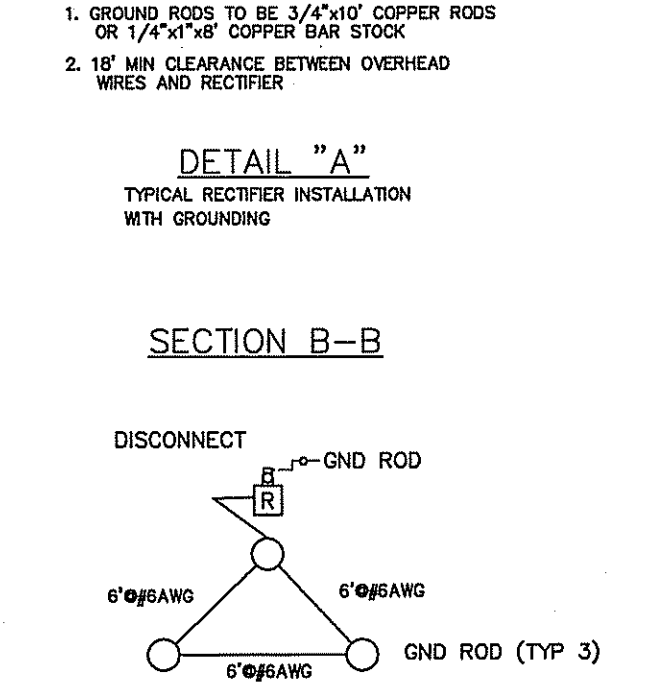
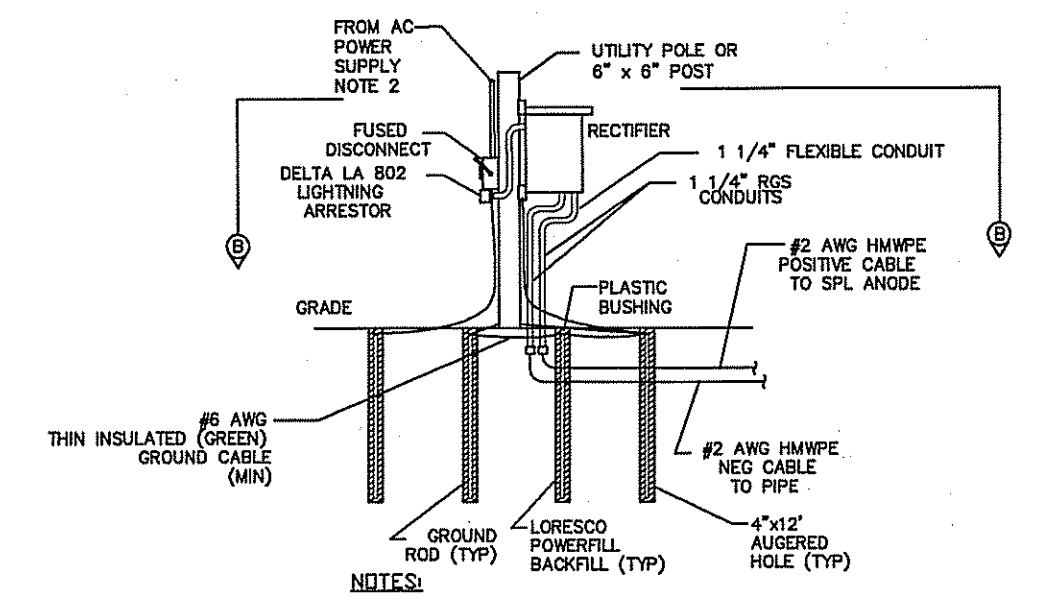
TRENCH DETAIL OF ANODE WITH LOOP CABLE

Environmental Management  
APR - 2 2012  
Office of Water Resources

- 3M SCOTCHKOTE™ ELECTRICAL COATING (COAT TAPE AND ONTO CABLE INSULATION)
- 3M SCOTCH™ SUPER 33 VINYL TAPE (MINIMUM 2 WRAPS WITH \*TAPE WIDTH OVERLAP)
- 3M SCOTCH™ 130C RUBBER TAPE (MINIMUM 2 WRAPS WITH \*TAPE WIDTH OVERLAP)
- 3M SCOTCHFILL™ INSULATION PUTTY (FILL & CONTOUR VOIDS AND IRREGULARITIES)



- NOTES
1. REMOVE SUFFICIENT INSULATION FROM EACH END OF ANODE CABLE
  2. REMOVE INSULATION FROM #2 HEADER CABLE. DO NOT CUT CABLE.
  3. INSTALL CRIMP FITTING WITH HYDRAULIC CRIMPER.



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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
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M. D. Wenzel

DWG. NO.	DESCRIPTION	REV	DSN	CK	DESCRIPTION	ITEM NO.	DESCRIPTION	LN. FT.
	REFERENCE DRAWINGS				REVISIONS		MATERIALS	

 Vanasse Hangen Brustlin, Inc. Transportation Land Development Environmental Services 101 Walnut Street, P.O. Box 9151 Waterford, Massachusetts 02471-9151 617 924 1770 • FAX 617 924 2286	ENGINEERING APPROVALS				MAINLINE BURRILLVILLE GROUND BED ALIGNMENT SHEET			 Algonquin Gas Transmission, LLC 5400 Westheimer Court, Houston, TX 77056-5310
	DRAWN BY: SLT	BID KTC	CONSTRUCTION 3-14	YEAR: 2012	W.O. 004110684	SCALE: N/A	DWG.C-355A 22 OF 22	

NOT FOR CONSTRUCTION