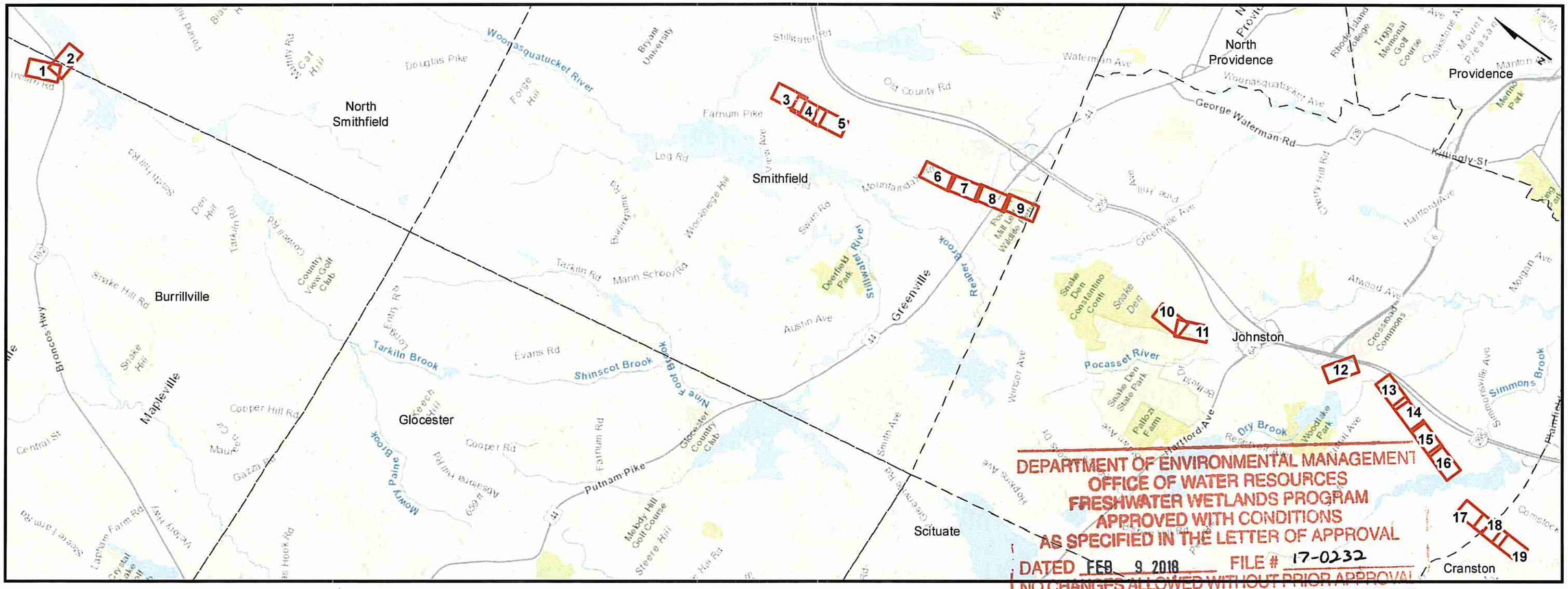
BSC Project Number: 89559.09

Environmental Management
DEC 18 2017
Office of Water Resources

TGP DIG LOCATIONS

Burrillville, North Smithfield, Smithfield, Johnston, & Cranston, RI
December 14, 2017



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED FEB 9 2018 FILE # 17-0232
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Charles A Horbert

INDEX OF FIGURES

PREPARED FOR:

Tennessee Gas Pipeline, L.L.C.
a Kinder Morgan company
78 Lafayette St
Carteret, NJ 07008

PREPARED BY:

BSC GROUP
33 Waldo Street
Worcester, MA 01608

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OLD NASONVILLE RD
BRONCOS HWY

Begin Dig #1
End Dig #1

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1 inch = 100 feet
0 50 100
Feet

TGP DIG LOCATIONS

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Burrillville, RI
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Source:
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Slatersville River and Reservoirs

VICTORY HWY

BRONCOS HWY

OLD NASONVILLE RD

Slatersville Pond

POTENTIAL DEWATERING AREA

TEMPORARY WETLAND IMPACT 740 S.F.

TEMPORARY STREAM IMPACT 310 S.F. SEE DETAIL ON SHEET 21-22

TEMPORARY WETLAND IMPACT 670 S.F.

Begin Dig #2

End Dig #2

W1

W1-1 W1-2 W1-3 W1-4 W1-5 W1-6 W1-7 W1-8 W1-9 W1-10 W1-11 W1-12 W1-13 W1-14 W1-15 W1-16 W1-17 S2-1 S2-1.1 S2-2 S2-3 S2-15 S2-21 S2-22 S2-23

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Feet

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Burrillville & North Smithfield, RI
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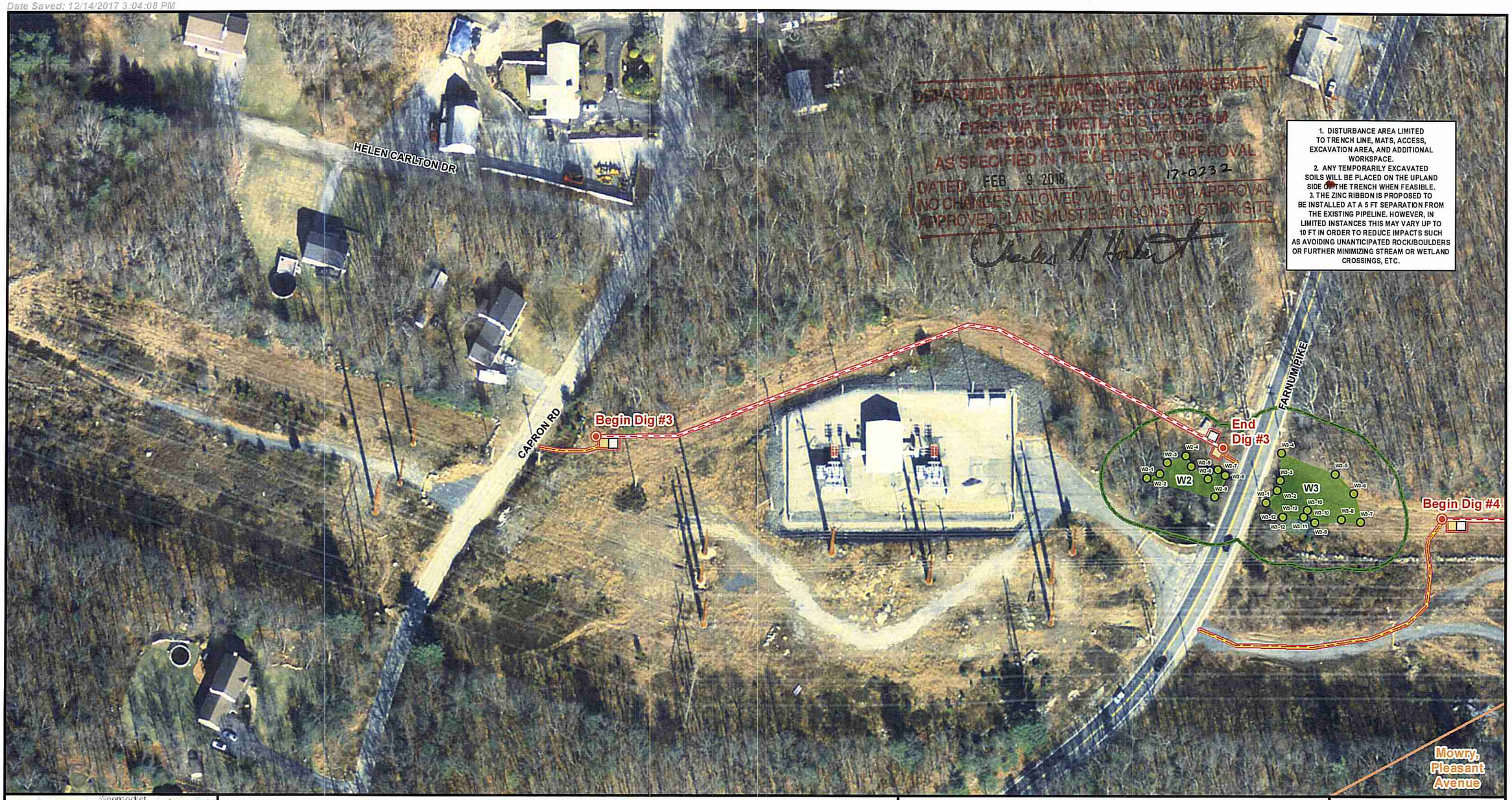

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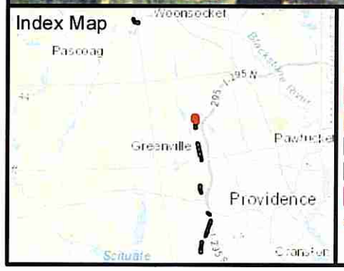

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0 50 100
Feet

TGP DIG LOCATIONS

Environmental Resources Map

Smithfield, RI
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End Dig #3
Begin Dig #4
FARNUM PIKE
W2
W3
Mowry, Pleasant Avenue

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End Dig #4

Mowry, Pleasant Avenue

W4-5
W4-4
W4
W4-3
W4-2
W4-1

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MOUNTAINDALE RD

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POTENTIAL DEWATERING AREA

Begin Dig #5

W5

WS-100
WS-101
WS-102
WS-103

TEMPORARY WETLAND IMPACT 1,945 S.F.

W6

WW-100
WW-101
WW-102
WW-200
WW-201
WW-202
WW-203

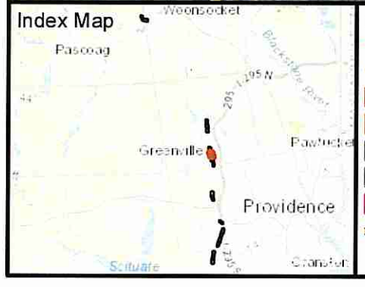
TEMPORARY WETLAND IMPACT 3,510 S.F.

LEDGEMONT ST

TIPPLIN ROCK RD

APPLE VALLEY PKWY

Index Map



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TGP DIG LOCATIONS

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Smithfield, RI
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TEMPORARY STREAM IMPACT 230 S.F. SEE DETAIL ON SHEET 21-22

TEMPORARY WETLAND IMPACT 1,130 S.F.

End Dig #5

Begin Dig #6

PUTNAM PIKE

W7

W8

S5-1 S5A-1 S5-2 S5A-2 S5A-3 S5-3 W7-201 W7-101 W7-200 W7-100 pool-1 pool-2 W8-200 W8-201 W8-202 W8-105 W8-106 W8-204 W8-203 W8-205 W8-206 W8-101 W8-100 W8-102 W8-103 W8-104 BF17A-2 BF17-1

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S17A-1 S17A-2 S17A-3 S17A-4 BF17A-2 BF17-1 W9-100 W9-101 W9-102 W9 W9-202 W9-201 W9-200 End Dig #6

TEMPORARY WETLAND IMPACT 3,955 S.F.

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- Riverbank Wetland
- Conservation Land
- No Disturbance Area
- FEMA 100yr Floodplain
- Town Boundary

Environmental Management
DEC 18 2017
Office of Water Resources

N
1 inch = 100 feet
0 50 100
Feet

TGP DIG LOCATIONS

Environmental Resources Map

Smithfield & Johnston, RI

Source:
-RIGIS
Basemap & Environmental Data
-Aerial & Topo Imagery
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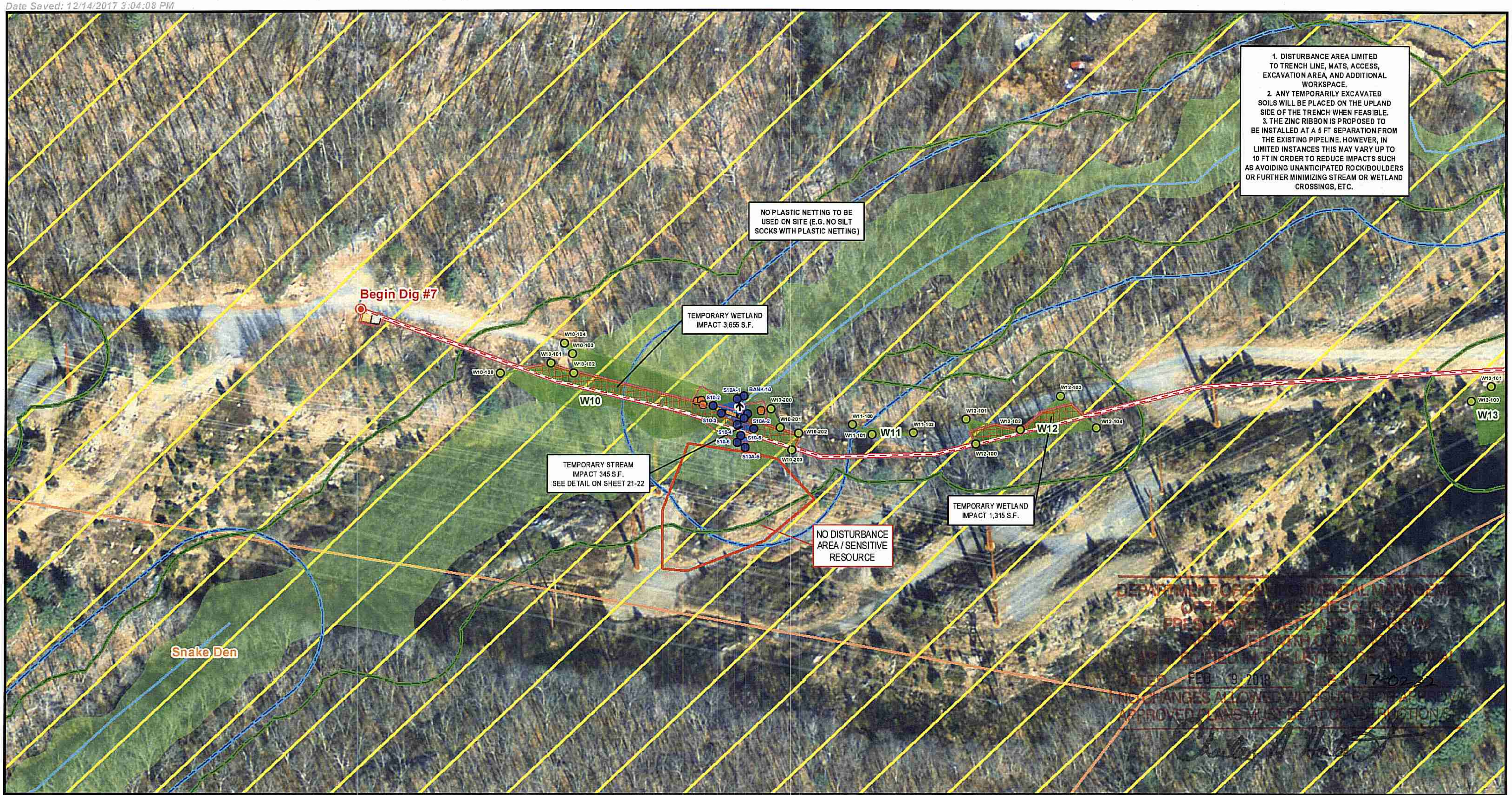
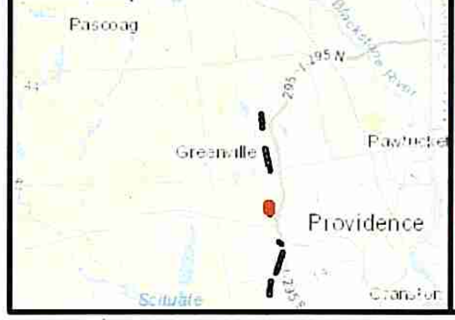


Index Map



Legend

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TGP DIG LOCATIONS

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Johnston, RI
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NO PLASTIC NETTING TO BE USED ON SITE (E.G. NO SILT SOCKS WITH PLASTIC NETTING)

NO DISTURBANCE AREA / SENSITIVE RESOURCE

BELFIELD DR

POTENTIAL DEWATERING AREA

TEMPORARY STREAM IMPACT 60 S.F. SEE DETAIL ON SHEET 21-22

TEMPORARY WETLAND IMPACT 4,970 S.F.

W13

End Dig #7

Snake Den

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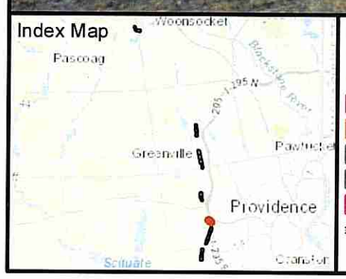

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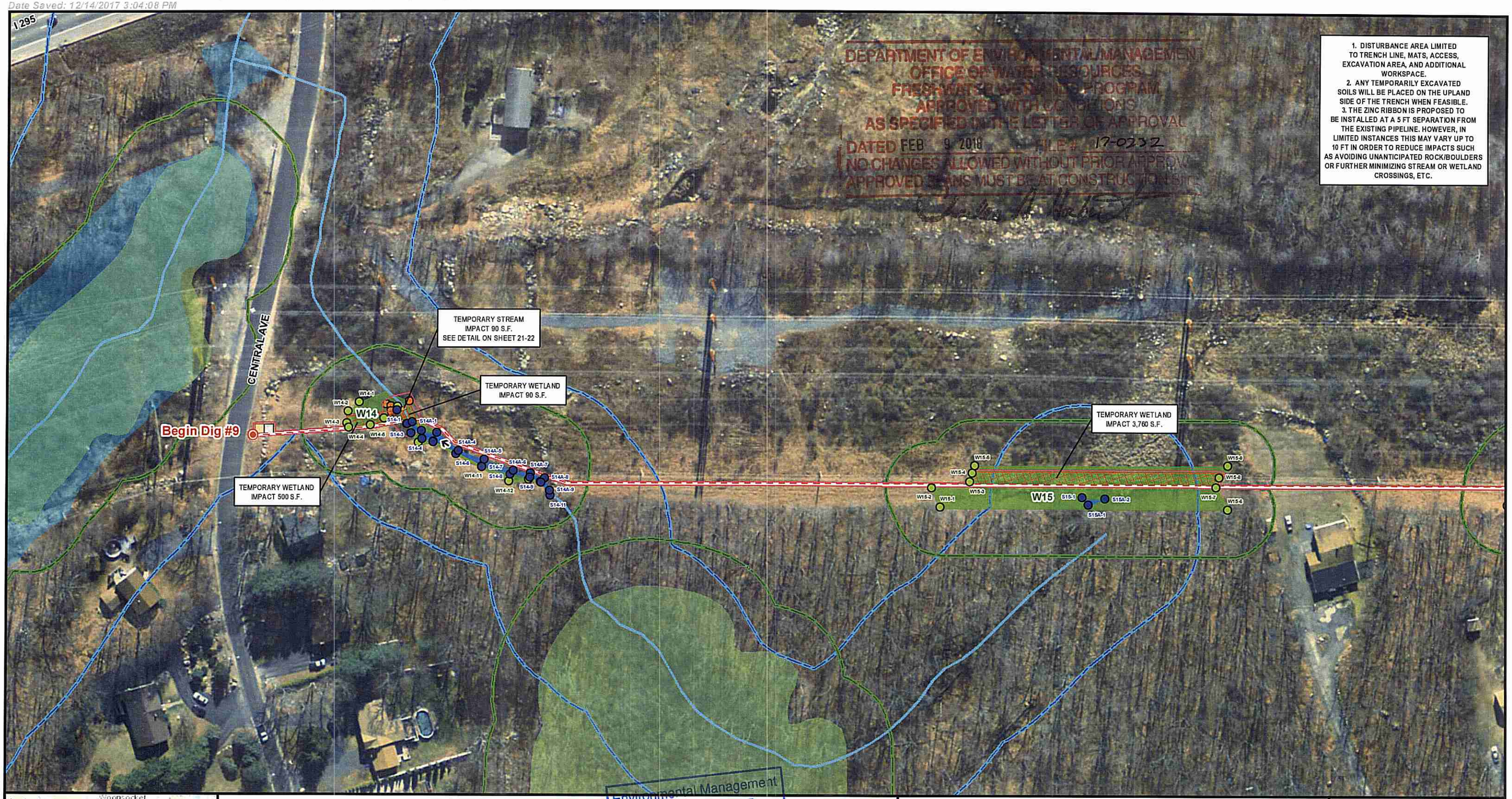

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Office of Water Resources

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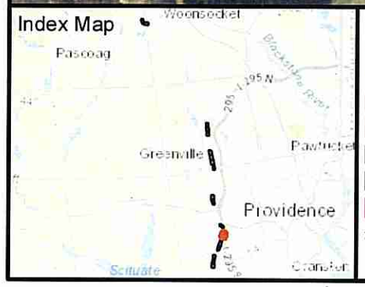

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TGP DIG LOCATIONS

Environmental Resources Map

Johnston, RI
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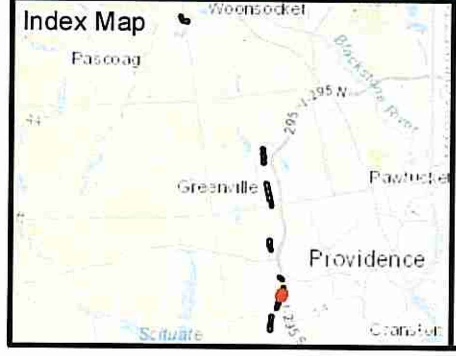

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Environmental Management
DEC 18 2017
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TGP DIG LOCATIONS

Environmental Resources Map

Johnston, RI
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UNKNOWN

OLD POCASSET RD

SCITUATE AVE

W17-1 W17-2 W17-3 W17-4 W17 W17-4 W17-7

Begin Dig #10

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Environmental Management
DEC 18 2017
Office of Water Resources

Index Map

Woonsocket
Pascoag
Blackstone River
295
I-95 N
Greenville
Pawtucket
Providence
Scituate
Cranston

Legend

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N

1 inch = 100 feet
0 50 100
Feet

TGP DIG LOCATIONS

Environmental Resources Map

Johnston, RI
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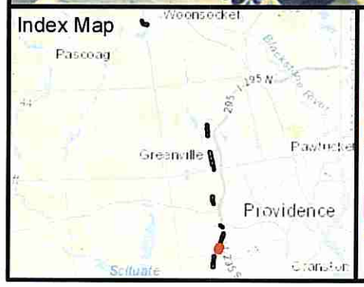
End Dig #10

Simmons Upper Reservoir

Environmental Management
DEC 18 2017
Office of Water Resources

Index Map



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Charles A. Horbert

Environmental Management
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Office of Water Resources

TAYLOR RD
EVERBLOOM DR
PLAINFIELD PIKE
Begin Dig #11
End Dig #11
Begin Dig #12
W18-100
W18-101
W18-102
W18-103
W18
ASSF1-1
ASSF1-2
ASSF1-3
ASSF1-4
ASSF1-5
ASSF1-6

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PLAINFIELD PIKE

Begin Dig #12

S19-102 W19-104 S19-200 W19-103 W19-102 W19-101 S19-201 S19-101 S19-100 S19-202 W19-104 W19 W20 20-100 20-101 20-102

ASSF1-4 ASSF1-3 ASSF1-2 ASSF1-1

TEMPORARY STREAM IMPACT 135 S.F. SEE DETAIL ON SHEET 21-22

TEMPORARY WETLAND IMPACT 2,290 S.F.

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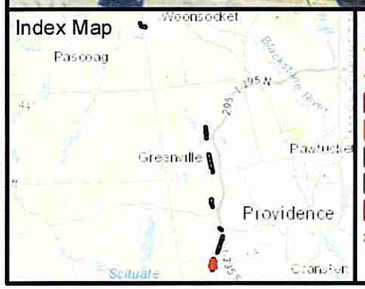
Index Map



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Tennessee Gas Pipeline Company, L.L.C.
a Kinder Morgan company
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1. DISTURBANCE AREA LIMITED TO TRENCH LINE, MATS, ACCESS, EXCAVATION AREA, AND ADDITIONAL WORKSPACE.
2. ANY TEMPORARILY EXCAVATED SOILS WILL BE PLACED ON THE UPLAND SIDE OF THE TRENCH WHEN FEASIBLE.
3. THE ZINC RIBBON IS PROPOSED TO BE INSTALLED AT A 5 FT SEPARATION FROM THE EXISTING PIPELINE. HOWEVER, IN LIMITED INSTANCES THIS MAY VARY UP TO 10 FT IN ORDER TO REDUCE IMPACTS SUCH AS AVOIDING UNANTICIPATED ROCK/BOULDERS OR FURTHER MINIMIZING STREAM OR WETLAND CROSSINGS, ETC.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED FEB 9 2018 FILE # 17-0232
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

WESTERN INDUSTRIAL DR

DANIELS WY

W19 W20 W21

POTENTIAL DEWATERING AREA

End Dig #12

TEMPORARY WETLAND IMPACT 2,290 S.F.

TEMPORARY WETLAND IMPACT 655 S.F.

Environmental Management
DEC 18 2017
Office of Water Resources

Index Map

Legend

- TGP Dig Location
- Access Road
- Swamp Mats
- Excavation Area
- Additional Workspace
- Potential Dewatering Location
- Limit of Disturbance
- SandBag Check Dam
- Dissipator Pad/Dewatering Bag
- Water Flag
- Stream Flow Direction
- Streams
- Field Delineated Swale
- Field Delineated Perennial Stream
- Field Delineated Water Feature
- Wetland Flag
- Field Delineated Wetland Boundary
- Field Delineated Wetland Area
- RIDEM Estimated Wetland Boundary
- USFWS Wetlands
- Perimeter Wetland
- Riverbank Wetland
- Conservation Land
- No Disturbance Area
- FEMA 100yr Floodplain
- Town Boundary

1 inch = 100 feet
0 50 100
Feet

TGP DIG LOCATIONS

Environmental Resources Map

Cranston, RI
Page 20 of 26

Source:
-RIGIS
Basemap & Environmental Data
-Aerial & Topo Imagery
ESRI, DigitalGlobe, GeoEye, i-cubed, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., AEX, GEBCO, USDA, USGS, FAO, NPS, NRCAN, GeoBase, Getmapping, Aerogrid, IGP, IGN, Kadaster NL, Ordnance Survey, ESRI japan, METI, ESRI China (Hong Kong), swisstopo, & the GIS User Community

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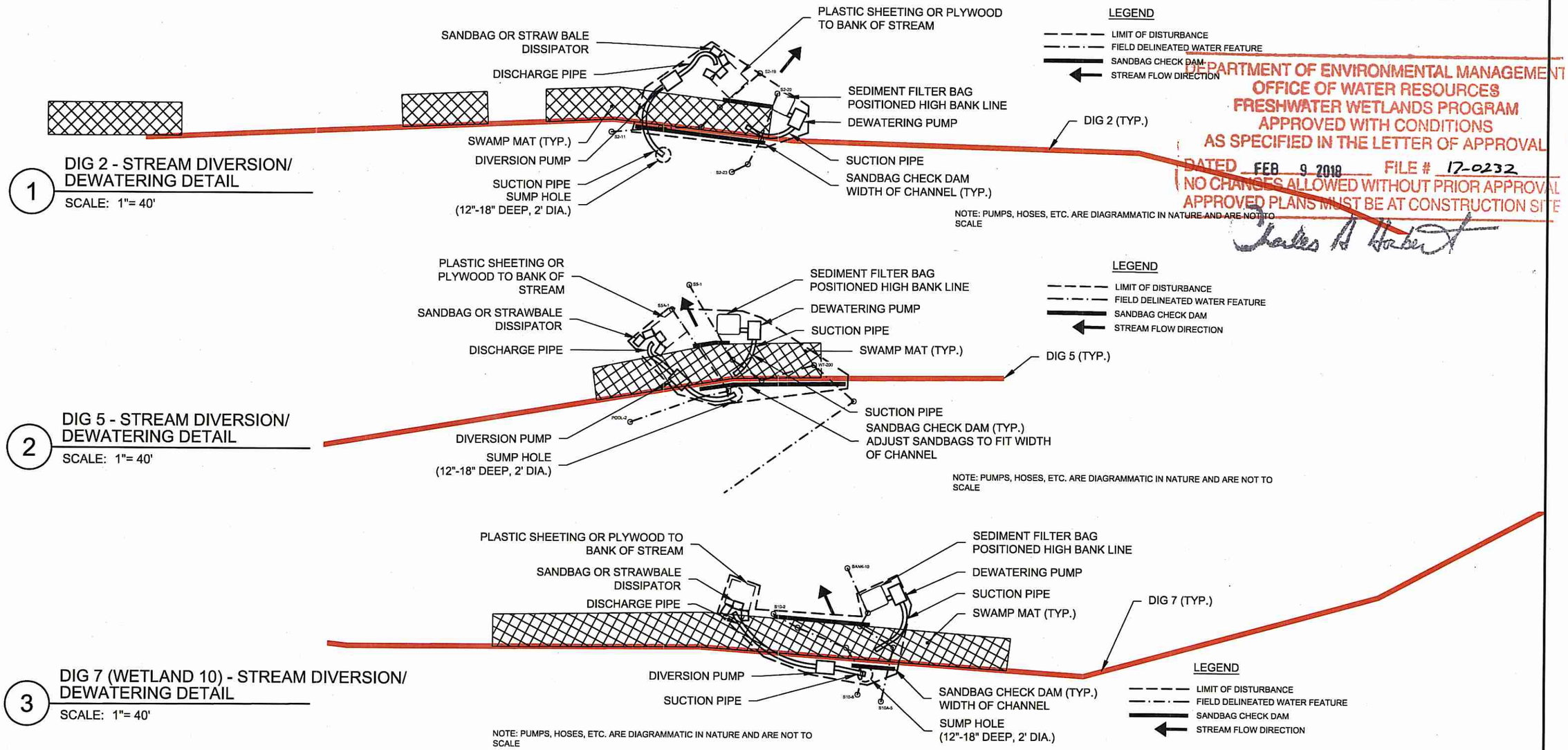
THIS DOCUMENT IS INTENDED FOR GENERAL PLANNING & INFORMATION PURPOSES ONLY. ALL MEASUREMENTS & LOCATIONS ARE APPROXIMATE



1 DIG 2 - STREAM DIVERSION/ DEWATERING DETAIL
SCALE: 1"= 40'

2 DIG 5 - STREAM DIVERSION/ DEWATERING DETAIL
SCALE: 1"= 40'

3 DIG 7 (WETLAND 10) - STREAM DIVERSION/ DEWATERING DETAIL
SCALE: 1"= 40'

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Office of Water Resources

SCALE: 1"=40'
0 20 40 80

TGP DIG LOCATIONS

TYPICAL BEST MANAGEMENT DETAILS

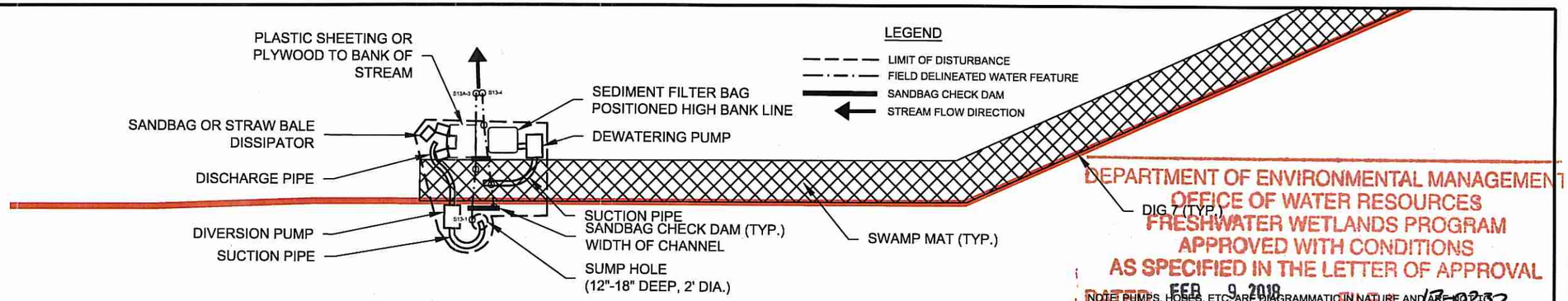
Burrillville, RI

Tennessee Gas Pipeline, L.L.C.
a Kinder Morgan company

BSC GROUP
33 Waldo Street
Worcester, Massachusetts
01608
508 792 4500

1 DIG 7 (WETLAND 13) - STREAM DIVERSION/ DEWATERING DETAIL

SCALE: 1"= 40'



NOTE: PUMPS, HOSES, ETC. ARE DIAGRAMMATIC IN NATURE AND ARE NOT TO SCALE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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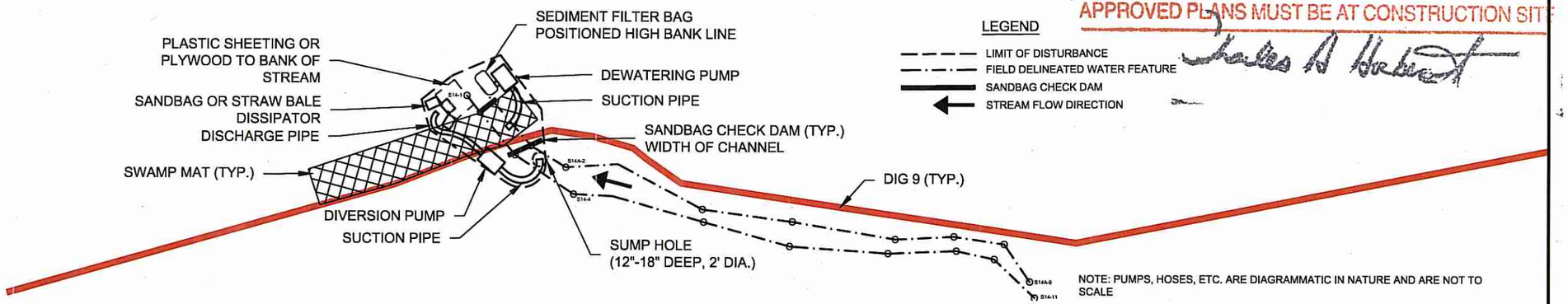
2 DIG 9 - STREAM DIVERSION/ DEWATERING DETAIL

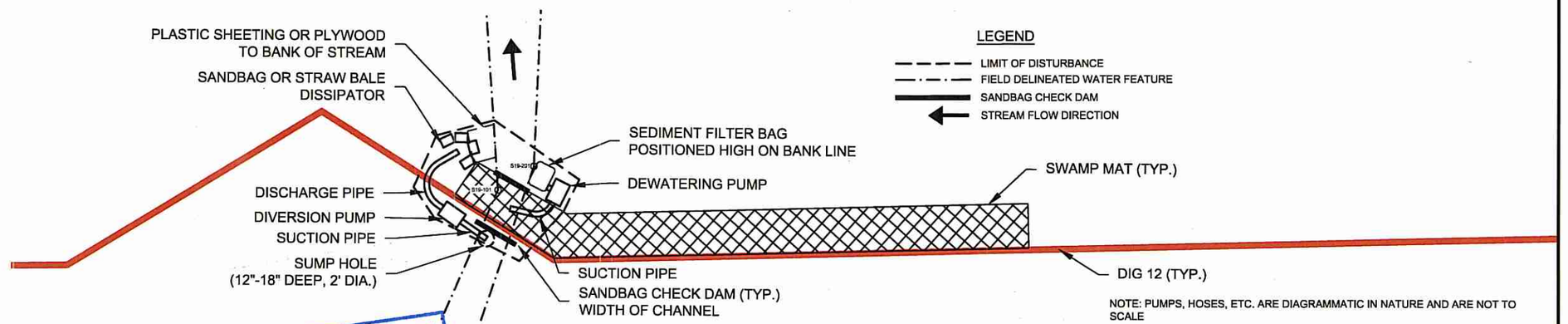
SCALE: 1"= 40'



NOTE: PUMPS, HOSES, ETC. ARE DIAGRAMMATIC IN NATURE AND ARE NOT TO SCALE

3 DIG 12 - STREAM DIVERSION/ DEWATERING DETAIL

SCALE: 1"= 40'



NOTE: PUMPS, HOSES, ETC. ARE DIAGRAMMATIC IN NATURE AND ARE NOT TO SCALE

Environmental Management
DEC 18 2017
Office of Water Resources

SCALE: 1"=40'
0 20 40 80

TGP DIG LOCATIONS

TYPICAL BEST MANAGEMENT DETAILS

Burrillville, RI

Tennessee Gas Pipeline, L.L.C.
a Kinder Morgan company

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33 Waldo Street
Worcester, Massachusetts
01608
508 792 4500

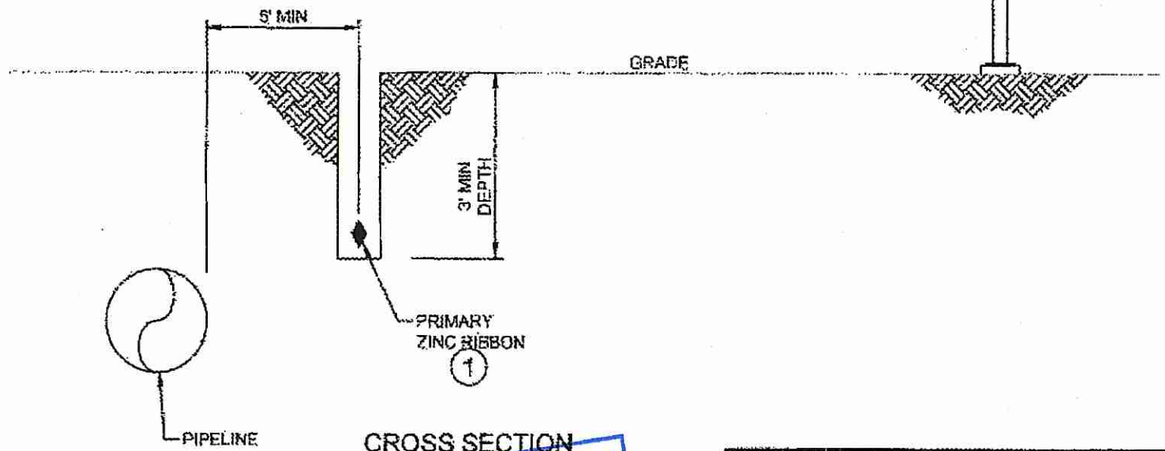
REV	DESCRIPTION	DATE	APPROVED
0	PRELIMINARY AC MITIGATION SYSTEM DESIGN	3/24/17	RFA

SAFETY NOTES:

1. THE PIPELINE AND APPURTENANCES AT OR NEAR THESE LOCATIONS CAN POSSESS POTENTIALLY LETHAL ELECTRICAL SHOCK HAZARDS UNTIL ALL GROUNDING IS INSTALLED.
2. KINDER MORGAN/TGP OR ARK ENGINEERING SHOULD PROVIDE A QUALIFIED ELECTRICAL SAFETY INSPECTOR ON-SITE DURING INSTALLATION OF THESE GROUND SYSTEMS TO ASSURE PERSONNEL SAFETY AND PIPELINE INTEGRITY.
3. ZINC RIBBON DEPTH AND SPACING ARE MINIMUM REQUIREMENTS. ADDITIONAL DEPTH OF ZINC RIBBON AND ADDITIONAL SPACING FROM THE PIPELINES IS ACCEPTABLE.

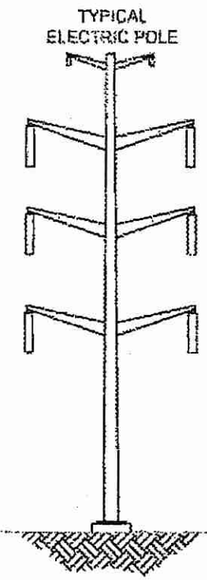
INSTALLATION NOTES:

1. HORIZONTAL DISTANCE FROM PIPELINE TO ZINC RIBBON CAN VARY BETWEEN 5' AND 25'.
2. INSTALL ZINC RIBBON TO SPECIFIED MINIMUM DEPTH.



CROSS SECTION
ZINC RIBBON INSTALLATION
SINGLE STRAND

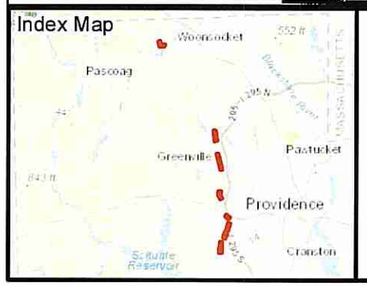
CAUTION:
ZINC RIBBON MUST NOT TOUCH PIPE.



- PRELIMINARY -
FOR CLIENT REVIEW ONLY
NOT FOR CONSTRUCTION
ENGR:
DATE: 3/24/17

CLIENT: TENNESSEE GAS PIPELINE SITE: 265E-102 265E-103 265E-104	ARK ENGINEERING & TECH. SERVICES, INC 539 GRANITE STREET SUITE 200 BRAINTREE, MA 02184 U.S.A.			TITLE: ZINC RIBBON INSTALLATION SECTION DETAILS
DRAWN BY: SRM	DATE: 3/24/17	SIZE: B	DWG. NO.: 16097-200	REV: 0
PROJECT NO: 15-E-097-AC	APPROVED BY: RFA	DATE:	SCALE: NTS	CAD FILE NAME: 16097-200-1-R0
				SHEET: 1 OF 1

Index Map



TGP DIG LOCATIONS

Zinc Ribbon Installation Section Details

Burrillville, North Smithfield, Smithfield, Johnston, & Cranston, RI

Tennessee Gas Pipeline, L.L.C.
a Kinder Morgan company

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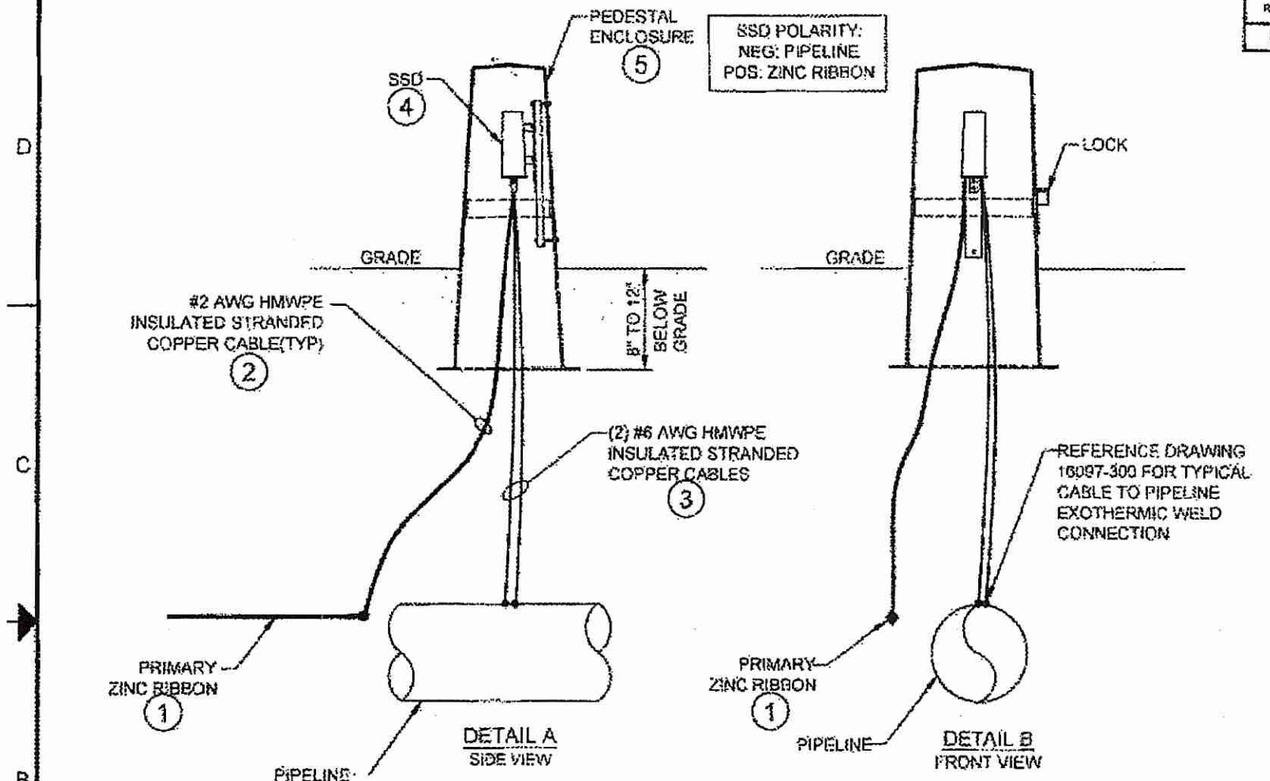
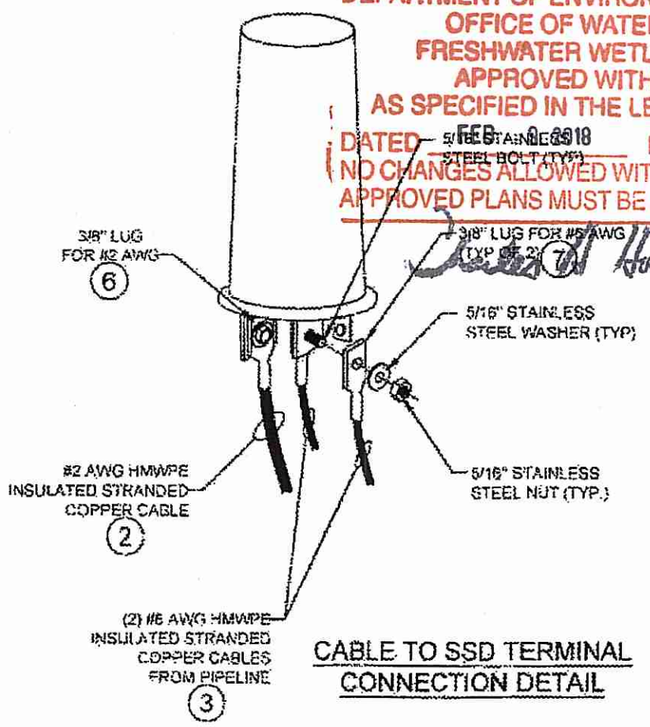
REV	DESCRIPTION	DATE	APPROVED
0	PRELIMINARY AC MITIGATION SYSTEM DESIGN	3/24/17	RFA



SSD INSTALLATION DETAILS

SOLID STATE DECOUPLER DEVICE (SSD)



CABLE TO SSD TERMINAL CONNECTION DETAIL

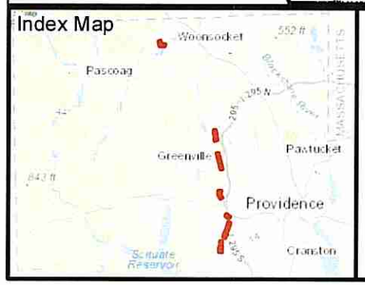
NOTES:

1. SSD IS TO BE MOUNTED INSIDE THE FIBERGLASS PEDESTAL. ALL COPPER CABLES ARE TO PASS THROUGH BOTTOM OF PEDESTAL.
2. INSTALL PEDESTAL AS CLOSE AS POSSIBLE TO PIPING CONNECTIONS TO REDUCE LEAD LENGTHS.
3. WIRING ON THIS SHEET DEPICTS ZN-1C CONFIGURATION. REFERENCE DRAWING 16097-201 FOR SPECIFIC WIRING DETAILS.

- PRELIMINARY -
FOR CLIENT REVIEW ONLY
NOT FOR CONSTRUCTION
ENGR:
DATE: 3/24/17

CLIENT: TENNESSEE GAS PIPELINE	ARK ENGINEERING & TECH. SERVICES, INC 639 GRANITE STREET SUITE 200 BRAINTREE, MA 02184 U.S.A.	TITLE: SOLID STATE DECOUPLING (SSD) DEVICE DETAILS			
SITE: 265E-102, 265E-103, 265E-104	DRAWN BY: SRM	DATE: 3/24/17	SIZE: B	DWG NO.: 16097-302	REV: 0
PROJECT NO.: 16-E-097-AC	APPROVED BY: RFA	DATE:	SCALE: NTS	CAD FILE NAME: 16097-302-1-RG	SHEET: 1 OF 1

Index Map



TGP DIG LOCATIONS

Solid State Decoupling (SSD) Device Details

Burrillville, North Smithfield, Smithfield, Johnston, & Cranston, RI

Tennessee Gas Pipeline, L.L.C.
a Kinder Morgan company

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ACCESS

- Existing, historically utilized access roads within the gas pipeline corridor as well as the adjacent overhead electrical ROW will be used to access the work area when possible.
- Where wetlands are present along the depicted digs, construction mats (portable HDPE mats) will be utilized to access the work locations and perform the excavations. Construction matting will be used when soils cannot safely support the small equipment. The mats will be placed on top of the existing vegetation to minimize disturbance to the soil to the extent practicable
- When possible, equipment less than 6 pounds per square inch (PSI) can be used, avoiding the need for installing swamp mats. However, mats are shown conservatively in all wetland crossings and will be used when greater than 6 PSI rated equipment is needed.

WETLANDS

- To install the zinc ribbons, TGP anticipates using a small trencher/plow attachment capable of creating a 1-foot wide by 3-foot deep ditch along the pipeline and spooling the ribbon into the trench. Access and ribbon installation will avoid the wetland boundary whenever feasible as an offset of up to 25 feet from the pipeline is allowable.
- The proposed activities can be completed relatively quickly at each site, reducing the amount of soil exposed or stockpiled for any length of time. The trench will be almost immediately backfilled as the equipment moves linearly and soils would not be stockpiled in the vicinity of wetlands. In favorable conditions, it is estimated that each dig can be completed in one workday. If rocky conditions prevent use of a trencher, small equipment with a 1-foot bucket will be used instead. The trench cut in rocky areas may remain open for 24 hours at most.
- To install the decoupling devices and connections to the pipeline, an approximate 10-foot by 10-foot area will need to be excavated to expose a portion of the pipeline near both ends of each of the 12 dig locations. There is also some flexibility in the placement of the excavation and pipeline connection, which can be used to further reduce wetland impacts.

WATERWAY CROSSINGS

- When stream crossings are required, any flow will be briefly dammed with a sandbag check dam (see detail) while the ribbon installation trench is formed and then backfilled.
- If the amount of flow is significant, the water will be pumped around the work area to a downstream dissipater pad consisting of sand bags or straw bales.

DEWATERING

- Dewatering will not be necessary for the installation of the zinc ribbon. If any dewatering is necessary, it would occur at the pipeline connection excavations. Water will be directed to filter bags which will be placed in a well vegetated area. Minor amounts of water will be directed to haybales. Accumulated sediments will be disposed of in an appropriate manner.
- No trench dewatering will be directly discharged to any wetlands or streams.

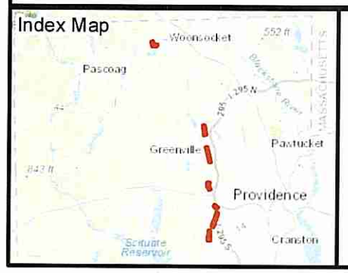
EROSION AND SEDIMENT CONTROLS

- Stockpiled soil will likely not remain exposed for more than one workday and TGP anticipates backfilling the installation trench immediately after the zinc ribbon is placed. However, in areas where wetlands are in the vicinity of the pipeline connection digs or soil will remain sidecast overnight, strawbales or filter socks/wattles will be placed between the adjacent resource and disturbed soil. Controls may be removed following completion of active work, and reused at subsequent dig sites.
- If present, any topsoil will be segregated and replaced in the trench last, so that root stock and seed banks are preserved

RESTORATION

- Excavated and trenched areas will be restored to pre-construction conditions and contours to the extent practicable.
- Once the work is complete, disturbed areas will be seeded with an appropriate seed mix and mulched.
- Rolled erosion control products will be considered if stabilization is a concern. Plastic netting is not allowed for use at Dig 7 which is habitat for state listed snake species.
- All construction materials, vehicles, and non-biodegradable sediment controls will be removed from the site upon completion of work.

Index Map



TGP DIG LOCATIONS

Sediment & Erosion Controls Best Management Practices

Burrillville, North Smithfield, Smithfield, Johnston, & Cranston, RI

Tennessee Gas Pipeline, L.L.C.
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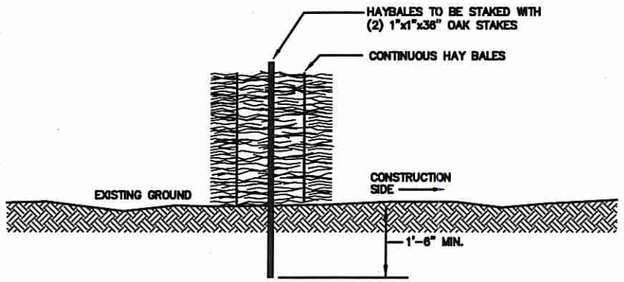
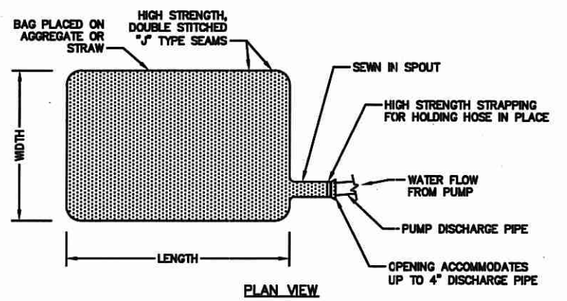


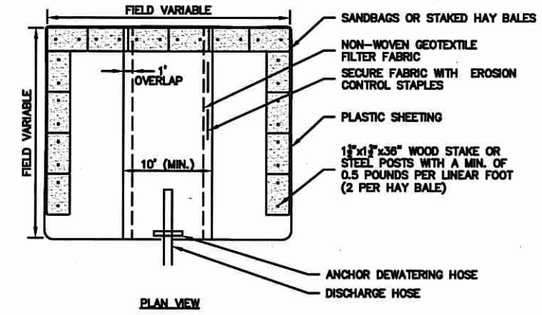
NOTES:

1. BALES SHALL BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. BALES SHALL BE SECURELY ANCHORED IN PLACE BY 1"X1"X36" WOODEN STAKES DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
3. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
4. BALES SHALL BE REMOVED AND REPLACED WHEN THEY BECOME FILLED WITH SEDIMENT AND BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
5. BALES SHALL BE REMOVED WHEN THE EMBANKMENTS STABILIZE.
6. BALES TO BE TWINE BOUND.

SINGLE ROW HAYBALE
SCALE: NONE



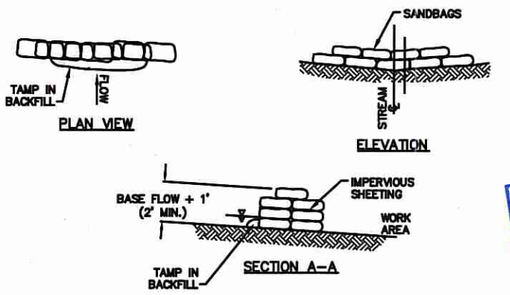
SEDIMENT FILTER BAG
SCALE: NONE



NOTES:

1. NUMBER OF SANDBAGS OR STRAW BALES MAY VARY DEPENDING ON SITE CONDITIONS.
2. EXTEND PLASTIC SHEETING TO EDGE OF STREAM.
3. THE BASIN TO BE SIZED ACCORDING TO PUMP DISCHARGE RATE(gpm).
4. SIZE SHOWN ON PLANS SHALL BE ADJUSTED AS REQUIRED FOR THE ACTUAL PUMPING RATE.

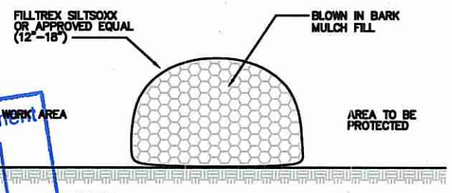
SANDBAG OR STRAW BALE DISSIPATOR
SCALE: NONE
EC-114-CT



NOTES:

1. USE CHECK DAMS TO SLOW WATER FLOWS AND AS SMALL SEDIMENT TRAPS IN DITCHES ALONG ACCESS ROADS.
2. CLEAN SEDIMENT AND REPLACE DAMS AS NECESSARY.
3. COORDINATE SPACING WITH ENVIRONMENTAL SCIENTIST.

SANDBAG CHECK DAM
SCALE: NONE



NOTES:

1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
2. SILTSOXX COMPOST/JSOIL/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS
3. SILTSOXX DEPICTED IS FOR MINIMUM SLOPES. GREATER SLOPES MAY REQUIRE LARGER SOCKS PER THE ENGINEER.
4. COMPOST MATERIAL TO BE DISPURSED ON SITE, AS DETERMINED BY THE ENGINEER.

SILTSOXX
SCALE: NONE

TUFFTRAK XT "OVERLAPPING BUOYANT MAT" – FOR BOGGY SOAKED GROUND

The Tufftrak XT is an exceptionally strong, foam filled mat that is so buoyant it floats. This mat is ideal for use on boggy, marshy and wet ground. It is unyielding and can be easily connected if needed through any of its 16 fixing points to create large platforms. The Chevron traction surface offers exceptional grip for both vehicles and pedestrians.

See the Tufftrack XT getting a thorough testing by a tracked vehicle on our youtube video featured on this page. This product is foam filled to prevent water ingress even if it gets punctured by forks or other equipment.

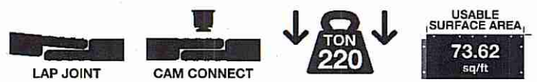
TUFFTRAK XT IS:

- **Exceptionally Strong** – Ideal for heavy tracked vehicles
- **Durable** – Can be bent to 90 degrees without breaking
- **Lighter than alternatives** – offers a 30% weight saving against the nearest competing product.
- **Cost Effective** – Take it to many sites and use it over and over again.
- **50 Mats per 40' Container!** – Fewer vehicles on site, lower transport costs.

You can see how the TuffTrak Xt compares with our other heavy duty mud mats further down the page in our comparison chart. If you would like to organize a free quote, site visit or just speak to someone about this product, then please call our sales line on **(888) 605-3463**.

XT

TuffTrak XT	
Dimensions	13.5' x 6'8" x 3.54"
Weight	770 lbs.
Usable Surface Area	73.625 sqft



TEMPORARY CONSTRUCTION MAT
SCALE: NONE

SCALE: N.T.S.

0 .5 1 2 FEET

TGP DIG LOCATIONS

TYPICAL BEST MANAGEMENT DETAILS

Burrillville, RI

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