CONSTRUCTION PLANS

TPE KING SOLAR

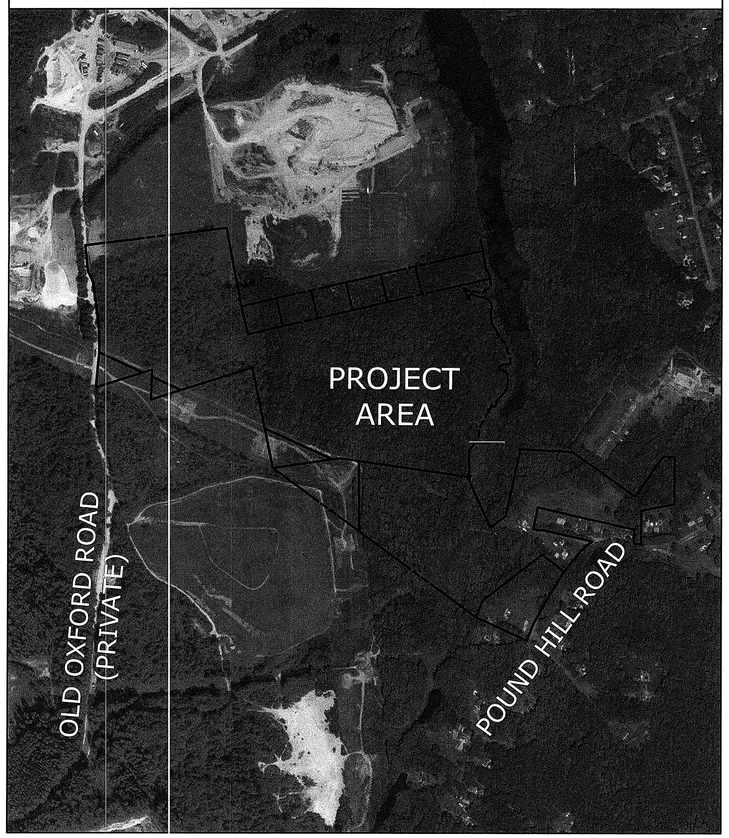
OLD OXFORD ROAD

NORTH SMITHFIELD, RHODE ISLAND 02896

JUNE 5, 2019

LAST REVISED: JANUARY 14, 2020

SITE MAP



GRAPHIC SCALE

500' 250' 0 500'

SCALE IN FEET

1" = 500'

TABLE OF DRAWINGS

SITE/CIVIL ENGINEERING PLANS

DWG. NO.	TITLE
C-1	TITLE SHEET
C-1.1	NOTES & TABLES
C-2	EXISTING CONDITIONS
C-2.1	EXISTING SLOPE MAP
C-3	DEMOLITION PLAN
C-4	OVERALL SITE PLAN
C-4.1	SITE PLAN - WEST
C-4.2	SITE PLAN - EAST
C-4.3	SITE PLAN - SOUTH
C-4.4	GROUNDWATER PLUMES EXHIBIT
C-5	OVERALL GRADING PLAN
C-5.1	GRADING PLAN - WEST
C-5.2	GRADING PLAN - EAST
C-5.3	GRADING PLAN - SOUTH
C-5.4	GRADING PLAN - BASIN #1
C-5.5	GRADING PLAN - BASIN #2
C-5.6	GRADING PLAN - BASIN #3
C-5.7	BASIN 1 - PIPE RUN
C-5.8	BASIN 2 - PIPE RUN
C-5.9	BASIN 3 - PIPE RUN
C-5.10	BASIN 4 - PIPE RUN
C-5.11	UTILITY CROSSING
C-6	ACCESS DRIVE PROFILE I
C-6.1	ACCESS DRIVE PROFILE II
C-6.2	ACCESS DRIVE PROFILE III
C-7	CONSTRUCTION DETAILS
C-8	OVERALL EROSION AND SEDIMENTATION CONTROL PLAN
C-8.1	EROSION AND SEDIMENTATION CONTROL PLAN - WEST
C-8.2	EROSION AND SEDIMENTATION CONTROL PLAN - EAST
C-8.3	EROSION AND SEDIMENTATION CONTROL PLAN - SOUTH
C-8.4	EROSION AND SEDIMENTATION CONTROL DETAILS
C-8.5	EROSION AND SEDIMENTATION CONTROL DETAILS
C-9.0	LAYDOWN AREA PLAN
PGS 1-4	ALTA / NSPS LAND TITLE COMPREHENSIVE BOUNDARY SURVEY, DATA ACCUMULATION SURVEY - PREPARED BY BOYER ASSOCIATES AND TIMMONS GROUP

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 6 2020 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Jacqueline D. Monsch

DEPARTMENT OF E
OFFICE O
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DATED
NO CHANGE
APPROVED PLA

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

TRC Engineers, Inc.
650 Suffolk Street
Suite 200
Lowell, MA 01854
Tel: (978) 970-5600
www.TRCcompanies.com

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JAN 16 2020

DEPARTMENT OF
OFFICE
FRES
AS SP
DATED
NO CHANGE
APPROVE

Applicant

DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

TITLE SHEET

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 500'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000

DRAWING NO.:

C-1

01/14/20

Xrefs: ...\Work\North Smithfield\01_eng\9.dwg ...\Work\North Smithfield\01_eng\00.dwg
Images: P:\...TRC Imagery+Mapping\Logos\Client Logos\ICP_LOGO80.png ...Images\TurningPoint Energy3.jpg J:\TPE Rhode Island Solar Holdings\North Smithfield - King\SOURCE FILES\terra firm map\440972019333.png

ZONING CODE COMPLIANCE CHART

SECT/BLOCK/LOT: TOWN OF NORTH SMITHFIELD, PROVIDENCE COUNTY, RHODE ISLAND		
ZONING DISTRICT: RURAL RESIDENTIAL CONSERVATION (RRC) – FORMERLY REA		
USE: GROUND–MOUNTED SOLAR PHOTOVOLTAIC SYSTEMS FOR COMMERCIAL USE (SPECIAL–USE PERMIT REQUIRED)		
LOT AND/OR BULK REQUIREMENTS	REQUIRED	PROPOSED/PROVIDED
LOT AREA	MINIMUM 6 ACRES	104.5 ACRES
LOT FRONTAGE	300 FEET	> 300 FEET
SOLAR ARRAY SETBACKS FRONT YARD REAR YARD SIDE YARD	 100 FEET 100 FEET 100 FEET	 100 FEET 100 FEET 100 FEET
MAXIMUM HEIGHT FEET	 15 FEET	 < 15 FEET

LIST OF ADJACENT PROPERTY OWNERS

PARCEL #	OWNER NAME	PROPERTY ADDRESS	PARCEL ID	BOOK/PAGE	ACREAGE
1	WILLIAM HORTON KING	6201 SE Monticello Terrace Martin, FL 33455	007-012	78/288	64
2	WALLACE & DOROTHY STONE	55 Cidar Mill Road North Smithfield, RI 02896	007-101	241/1155	1.15
3	WALLACE & DOROTHY STONE	55 Cidar Mill Road North Smithfield, RI 02896	007-102	241/1157	1.15
4	WALLACE & DOROTHY STONE	55 Cidar Mill Road North Smithfield, RI 02896	007-103	241/1153	1.15
5	WALLACE & DOROTHY STONE	55 Cidar Mill Road North Smithfield, RI 02896	007-104	241/1152	1.15
6	WALLACE & DOROTHY STONE	55 Cidar Mill Road North Smithfield, RI 02896	007-105	241/1151	1.15
7	WALLACE & DOROTHY STONE	55 Cidar Mill Road North Smithfield, RI 02896	007-014	76/487	1.56
8	MCS ENTERPRISES LLC	9 Kendall Drive Lincoln, RI 02865	004-049	182/1018	65.55
9	MCS ENTERPRISES LLC	9 Kendall Drive Lincoln, RI 02865	004-047	182/1018	13.232
10	TUSPANI WATER COMPANY, INC	C/O Holliston Sand Slatersville, RI 02876	007-064	179/315	88
11	NARRAGANSETT ELEC CO	40 Sylvan Road Waltham, RI 02451	007-085	78/288	0.9
12	NARRAGANSETT ELEC CO	40 Sylvan Road Waltham, RI 02451	007-046	77/215	2
13	NARRAGANSETT ELEC CO	40 Sylvan Road Waltham, RI 02451	007-084	78/288	0.3
14	NARRAGANSETT ELEC CO	40 Sylvan Road Waltham, RI 02451	007-082	18/958	8.55
15	NARRAGANSETT ELEC CO C/O PROPERTIES DEPT	40 Sylvan Road Waltham, RI 02451	007-083	78/188	1.38
16	NARRAGANSETT ELEC CO C/O PROPERTIES DEPT	40 Sylvan Road Waltham, RI 02451	007-081	78/673	3.67
17	ALFRED M CARON	PO Box 869 Slatersville, RI 02876	007-023	573/095	30.03
18	TOWN OF NORTH SMITHFIELD	PO Box 248 Slatersville, RI 02876	004-447	172/716	17.15
19	CHARLES S WILSON	215 Cedar Street Warwick, RI 02818	007-068	175/881	10.41
20	ALFRED M & SANDRA M CARON	1375 Pound Hill Road North Smithfield, RI 01317	007-024	160/629	4.12
21	RICHARD M & PAMELA J COSTELLO	1270 Pound Hill Road North Smithfield, RI 02896	007-155	482/024	2.24
22	EDWARD J & DEBORAH A TE ROBERGE	1256 Pound Hill Road North Smithfield, RI 02896	007-025	189/041	2.75
23	GERAL M & NANCY ANN PERRON	1297 Pound Hill Road North Smithfield, RI 02896	007-053	527/043	1.23
24	SLATER HOMES, LLC	861 A Broad Street Providence, RI 02907	007-065	172/009	0
25	PAUL A & AUDREY L GODIN	1201 Pound Hill Road North Smithfield, RI 02896	007-022	85/1091	3.34
26	U.S. GOVERNMENT	Off Pound Hill Road North Smithfield, RI 02896	007-062	58/187	10.61
27	U.S. GOVERNMENT	861 A Broad Street Providence, RI 02907	007-066	172/09	0
28	ROCHELLE WHITE	1431 Pound Hill Road North Smithfield, RI 02896	007-070	274/250	1.03

INFORMATION PROVIDED IN THIS TABLE WAS OBTAINED FROM PUBLICALLY AVAILABLE GIS DATA. PLEASE REFER TO THE ALTA SURVEY PERFORMED FOR THIS SITE FOR ACTUAL DATA.

GENERAL NOTES:

1. THE FOLLOWING APPROVALS ARE REQUIRED FOR THIS PROJECT:
   - NATIONAL GRID;
   - RHODE ISLAND DEM - ALL APPLICABLE PERMITS;
   - SIGNED PERMANENT EASEMENT BETWEEN THE TOWN AND HOLLISTON SAND COMPANY INC. - TO THE EXTENT OXFORD ROAD IS UTILIZED;
   - SIGNED PERMANENT EASEMENT BETWEEN THE TOWN AND SLATER FARMS, LLC - TO THE EXTENT THAT HOLLISTON'S PRIVATE DRIVEWAY IS UTILIZED TO ROUTE 7 IN BURRILLVILLE;
2. ON OCTOBER 9, 2018, THE ZONING BOARD OF REVIEW (ZBR) OF THE TOWN OF NORTH SMITHFIELD GRANTED RELIEF FROM SECTIONS 5.7.5(C) AND 5.7.5(H) OF THE ZONING ORDINANCE TO CONSTRUCT A 6.22MW AC GROUND MOUNTED SOLAR PHOTOVOLTAIC ENERGY SYSTEM. THIS DECISION IS RECORDED IN THE ZONING BOARD MINUTES BOOK 7 AT PAGE 514.
3. AN "INSIGNIFICANT ALTERATION" PERMIT (PERMIT AUTHORIZATION NUMBER IS **RIPDES NO. RIR101812**) DATED APRIL 1, 2019 HAS BEEN ISSUED FOR THIS PROJECT. THE PROJECT IS THEREFORE SUBJECT TO ALL OF THE TERMS AND CONDITIONS LISTED IN THE PERMIT.
4. PRIOR TO EXCAVATION ON THIS SITE, THE CONTRACTOR SHALL CALL DIGSAFE (811).

Cut/Fill Summary

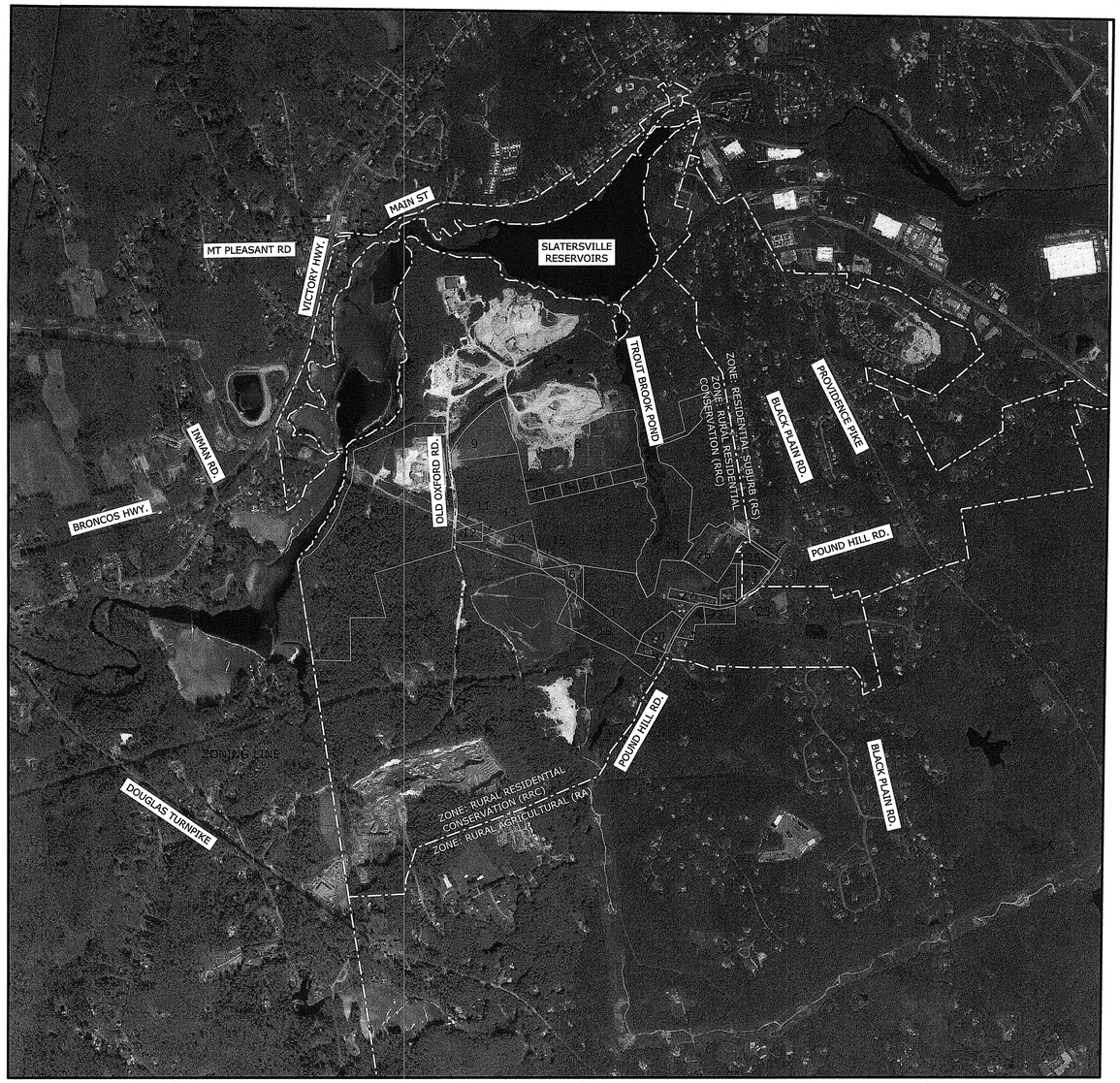
Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
VM-CF	1.000	1.100	2143522.65 Sq. Ft.	248056.21 Cu. Yd.	252217.46 Cu. Yd.	4161.25 Cu. Yd.<Fill>
Totals			2143522.65 Sq. Ft.	248056.21 Cu. Yd.	252217.46 Cu. Yd.	4161.25 Cu. Yd.<Fill>

DEVELOPER
TPE KING SOLAR HOLDINGS1, LLC
999 18TH STREET, SUITE 3000
DENVER, CO 80202
ADAM BIAL
(970) 375-3937

OPERATOR
DEPCOM POWER
9185 EAST PIMA CENTER PARKWAY
SCOTTSDALE, AZ 85258
CARL GLASS
(623) 217-6343

SURVEYOR
BOYER ASSOCIATES
1071 MAIN STREET
WARWICK, RI 02893
MARK D. BOYER, PLS
(401) 821-8872

ENGINEER
TRC ENGINEERS, INC.
650 SUFFOLK STREET, SUITE 200
LOWELL, MA
STEPHEN M. LOSS, P.E.
(717) 256-3624



LOCUS MAP

GRAPHIC SCALE
1000' 500' 0 1000'
SCALE IN FEET
1" = 1000'

REPORTS:

GEOTECHNICAL ENGINEERING REPORT - NORTH SMITHFIELD PV PROGRAM
TRC ENVIRONMENTAL CORPORATION
JUNE 27, 2018
DOUGLAS R. GENTHE, PE

STORMWATER MANAGEMENT REPORT, TPE KING SOLAR
TRC ENGINEERS, INC.
NOVEMBER 2018, LAST REVISED MAY 2019

SOIL EROSION AND SEDIMENT CONTROL PLAN FOR:
TPE KING SOLAR HOLDINGS1, LLC
TRC ENGINEERS, INC.
NOVEMBER 15, 2018, LAST REVISED JUNE 5, 2018

ECOLOGICAL EVALUATION FOR SOLAR DEVELOPMENT PROJECT
"KING SITE", POUND HILL ROAD
JULY 7, 2018
GODDARD CONSULTING
SCOTT GODDARD (508) 393-3784

TPE KING SOLAR NOISE EVALUATION
JULY 9, 2018
ACENTECH INCORPORATED
MICHAEL BAHTIARIAN, INCE BD CERT
(617) 499-8000

Know what's below. Call before you dig.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 12 2020 FILE # 18631
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
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Tel: (978) 970-5600
www.TRCcompanies.com
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JAN 15 2020

Applicant
DEPCOM POWER
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
NOTES & TABLES

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 1000'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-1.1

01/14/20

I:\Depcom Power\North Smithfield - PV\LOA\Plot Sheets\[SPS Plans]SPS-1 Notes & Tables.dwg, 01-14-2020 3:33:24 PM, EST, Blue
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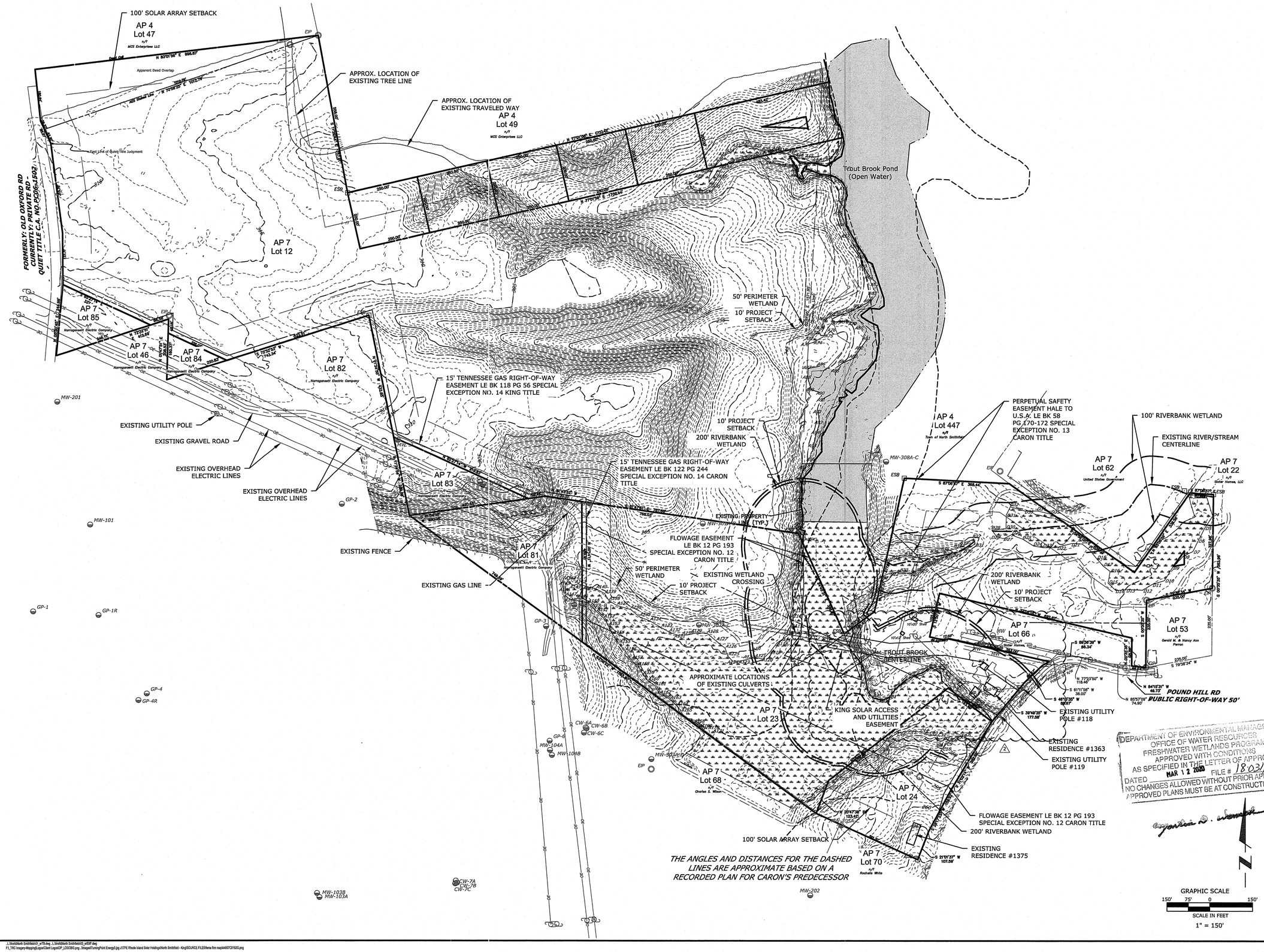
Images: ..\..\Images\811-large-trans.png, F1_TRC Imagery-Mapping\Logos\Client Logos\DP_LOGO3IG.png, ..\Images\TurningPoint Energy3.jpg



LEGEND

EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

GENERAL NOTES

1. ENVIRONMENTAL FEATURES SHOWN HERON WERE OBTAINED FROM A PRELIMINARY STUDY PERFORMED BY BOYER ASSOCIATES, LLC.
2. PROPERTY BOUNDARIES SHOWN HERON WERE OBTAINED FROM A PLAN ENTITLED "ALTA/NSPS LAND TITLE COMPREHENSIVE BOUNDARY SURVEY DATA ACCUMULATION SURVEY A.P. LOT 12, A.P. LOT 23, A.P. LOT 24, A.P. LOT 46, A.P. LOT 53, A.P. LOT 66, A.P. LOT 81, A.P. LOT 82, A.P. LOT 83, A.P. LOT 84, A.P. LOT 85 CONTAINING 104 ± ACRES, NORTH SMITHFIELD, RHODE ISLAND" PREPARED BY TIMMONS GROUP, LATEST REVISION 02/19/18.
3. PROJECT SETBACKS SHOWN HEREON ARE 10' GREATER THAN WETLAND JURISDICTIONAL EXTENTS. EXCEPT WHERE NECESSARY, THE PROPOSED LIMIT OF DISTURBANCE DOES NOT ENCROACH ON THESE PROJECT SETBACKS.

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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JAN 15 2020
Planning Board

Applicant

DEPCOM POWER
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 12 2020 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

EXISTING CONDITIONS

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 150'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-2

01/14/20

Xrefs: ...\..\North Smithfield\41_xrTB.dwg, ...\..\North\North Smithfield\43_xrESF.dwg
Images: FS_TRC Imagery-Mapping\Logos\Client Logos\DP_LOGO800.png, ...\Images\TurningPoint Energy3.jpg J:\TPE Rhode Island Solar Holdings\North Smithfield - King\SOURCE FILES\frame frm map\44007C0102G.png

100' SOLAR ARRAY SETBACK

APPROX. LOCATION OF EXISTING TREE LINE

APPROX. LOCATION OF EXISTING TRAVELED WAY

FORMERLY: OLD OXFORD RD
CURRENTLY: PRIVATE RD -
QUIET TITLE C.A. NO. PC06-1503

MW-201

EXISTING UTILITY POLE

EXISTING GRAVEL ROAD

EXISTING OVERHEAD ELECTRIC LINES

EXISTING OVERHEAD ELECTRIC LINES

GP-2

MW-101

15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 118 PG 56 SPECIAL EXCEPTION NO. 14 KING TITLE

EXISTING FENCE

EXISTING GAS LINE

GP-1

GP-1R

GP-3

GP-4

GP-4R

CW-6A

CW-6B

CW-6C

GP-6

MW-104A

MW-104B

MW-103A-D

MW-103A-C

MW-103B

MW-103A

CW-7A

CW-7B

CW-7C

MW-202

100' SOLAR ARRAY SETBACK

THE ANGLES AND DISTANCES FOR THE DASHED LINES ARE APPROXIMATE BASED ON A RECORDED PLAN FOR CARON'S PREDECESSOR

PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE

200' RIVERBANK WETLAND

10' PROJECT BUFFER

15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 122 PG 244 SPECIAL EXCEPTION NO. 14 CARON TITLE

MW-302A-D

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

EXISTING WETLAND CROSSING

MW-302A-C

MW-308A-C

100' RIVERBANK WETLAND SETBACK

EXISTING RIVER/STREAM CENTERLINE

EXISTING WETLAND

100' RIVERBANK WETLAND SETBACK

200' RIVERBANK WETLAND

10' PROJECT BUFFER

POUND HILL RD
PUBLIC RIGHT-OF-WAY 50'

EXISTING UTILITY POLE #118

EXISTING RESIDENCE #1363

EXISTING UTILITY POLE #119

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

200' RIVERBANK WETLAND

EXISTING RESIDENCE #1375

GRAPHIC SCALE
150' 75' 0 150'
SCALE IN FEET
1" = 150'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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DATED MAR 1 2 2020 FILE # 18-0214
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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LEGEND

EXISTING FEATURES

- EDGE OF PAVED BITUMINOUS SURFACE
- EDGE OF GRAVEL OR CRUSHED STONE SURFACE
- EDGE OF ROADWAY SHOULDER
- PROPERTY BOUNDARY LINE
- IRON PIN OR PIPE
- CONCRETE MONUMENT
- ADJOINING PROPERTY BOUNDARY LINE
- EASEMENT LINE
- MINIMUM BUILDING SETBACK LINE
- ZONING DISTRICT BOUNDARY LINE
- EDGE OF EXISTING SURFACE WATERCOURSE
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- SPOT ELEVATION
- BUILDING
- OE OVERHEAD ELECTRIC LINES
- UTILITY POLE
- GUY WIRE
- DRAINAGE PIPE
- DRAINAGE INLET
- TREELINE
- WALL
- WETLAND
- FENCE
- SIGN
- MW MONITORING WELL
- 15% - 100% SLOPES

SURVEY NOTES

1. ENVIRONMENTAL FEATURES SHOWN HERON WERE OBTAINED FROM A PRELIMINARY STUDY PERFORMED BY BOYER ASSOCIATES, LLC.
2. PROPERTY BOUNDARIES SHOWN HERON WERE OBTAINED FROM A PLAN ENTITLED "ALTA/NSPS LAND TITLE COMPREHENSIVE BOUNDARY SURVEY DATA ACCUMULATION SURVEY A.P. LOT 12, A.P. LOT 23, A.P. LOT 24, A.P. LOT 46, A.P. LOT 53, A.P. LOT 66, A.P. LOT 81, A.P. LOT 82, A.P. LOT 83, A.P. LOT 84, A.P. LOT 85 CONTAINING 104 ± ACRES, NORTH SMITHFIELD, RHODE ISLAND" PREPARED BY TIMMONS GROUP, LATEST REVISION 02/19/18.
3. ENVIRONMENTAL SETBACKS SHOWN HEREIN ARE 10' GREATER THAN STATE REQUIREMENTS.

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

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Applicant:

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ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

EXISTING SLOPE MAP

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 150'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-2.1

01/14/20

X:\Depcom Power\North Smithfield — King\CAD\Plot Sheets\DPC Plots\DPC-2-1 Existing Slope Map.dwg 01-14-2020 3:34:05 PM EST Steve

XRefs: ...\..\Work\North Smithfield\01_grd\Base.dwg, ...\..\Work\North Smithfield\04_eng\Base.dwg
Images: FI_TRC Imaging-Mapping\Logos\Client Logos\DPP_LOGO50.png ...\Images\TurningPoint Energy3.jpg //TPE Rhode Island Solar Holdings\North Smithfield - King\SOURCE FILES\Items frm map\4400720\1050S.png

100' SOLAR ARRAY SETBACK

100' SOLAR ARRAY SETBACK

APPROX. LOCATION OF EXISTING TRAVELED WAY

20' CLEARING

FORMERLY: OLD OXFORD RD
CURRENTLY: PRIVATE RD -
QUIET TITLE C.A. NO.PC06-1502

EXISTING VEGETATION BUFFER (25' MIN WHERE POSSIBLE, TO REMAIN IN PLACE)

PROPOSED TREE LINE

15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 118 PG 56 SPECIAL EXCEPTION NO. 14 KING TITLE

EXISTING UTILITY POLE

EXISTING GRAVEL ROAD

EXISTING OVERHEAD ELECTRIC LINES

EXISTING OVERHEAD ELECTRIC LINES

EXISTING FENCE

EXISTING GAS LINE

15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 122 PG 244 SPECIAL EXCEPTION NO. 14 CARON TITLE

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

EXISTING WETLAND CROSSING

200' RIVERBANK WETLAND

10' PROJECT BUFFER

100' SOLAR ARRAY SETBACK

TROUT BROOK POND

ZONE "A"

PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE

100' RIVERBANK WETLAND SETBACK

EXISTING RIVER/STREAM CENTERLINE

EXISTING WETLAND

200' RIVERBANK WETLAND

10' PROJECT BUFFER

TROUT BROOK CENTERLINE

POUND HILL RD
PUBLIC RIGHT-OF-WAY 50'

EXISTING UTILITY POLE #118

EXISTING RESIDENCE #1363

EXISTING UTILITY POLE #119

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

EXISTING RESIDENCE #1375

THE ANGLES AND DISTANCES FOR THE DASHED LINES ARE APPROXIMATE BASED ON A RECORDED PLAN FOR CARON'S PREDECESSOR

GP-1 GP-1R GP-2 GP-3 GP-4 GP-4R GP-6

MW-101 MW-102A MW-103A MW-103B MW-104A MW-104B MW-202 MW-302A-D MW-305A MW-308A-C

CW-6A CW-6B CW-6C CW-7A CW-7B CW-7C

GRAPHIC SCALE
150' 75' 0 150'
SCALE IN FEET
1" = 150'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA

LEGEND — DEMOLITION

- TBD — DENOTES A FEATURE TO BE DEMOLISHED
- TBR — DENOTES A FEATURE TO BE REMOVED AND RELOCATED
- EX. VEGETATION BUFFER
- EX. TREE REMOVAL

DEMOLITION NOTE

1. ALL FEATURES IN BOLD PRINT AND SO LABELED SHALL BE DEMOLISHED, REMOVED, OR RELOCATED AS INDICATED.

NOTE:

1. PROPOSED TREE LINE SHOWN FOR GRAPHICAL CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINES SHOWN ON THE PLANS.
2. CONTRACTOR TO ENSURE NO DISRUPTION TO MONITORING WELLS DURING CONSTRUCTION ACTIVITIES.

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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650 Suffolk Street
Suite 200
Lowell, MA 01854
Tel: (978) 970-5600
www.TRCcompanies.com

© TRC Engineers, Inc.

Applicant

DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAY 12 2020 FILE # 18-0314
CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

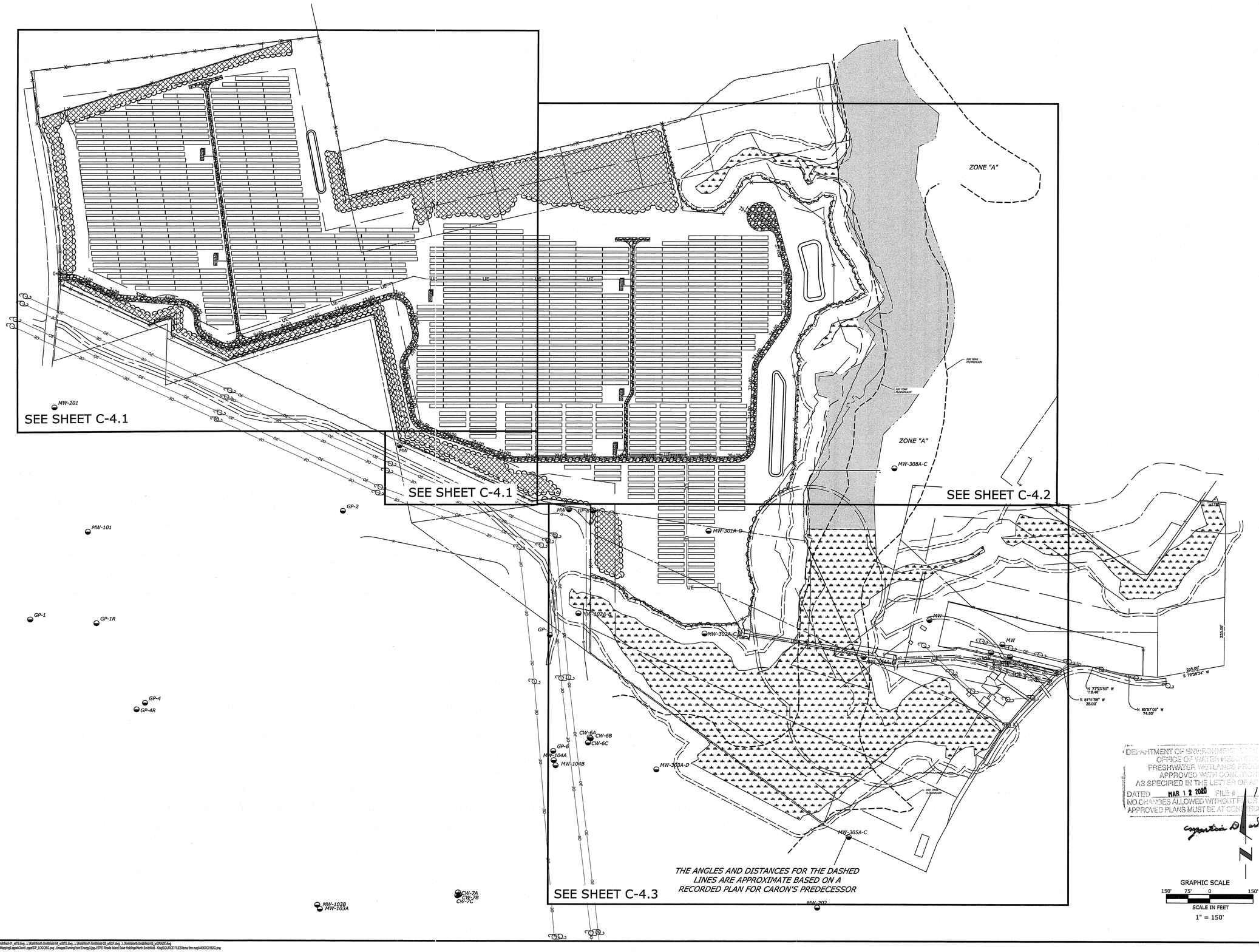
DEMOLITION PLAN

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 150'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-3

Xrefs: I:\Work\North Smithfield-03_wDEP.dwg, I:\Work\North Smithfield-01_xrTIE.dwg, I:\Work\North Smithfield-04_xrSITE.dwg
Images: J:\2PE Rhode Island Solar Holdings\North Smithfield - Kingfi\SOURCE FILES\tiena tim map\440972\216353.png P1_TRC Imagery-MappingLogos\Client Logos\DP_LOGO383.png , Images\TurningPoint Energy3.jpg

REVISED ARRAYS, ELECTRICAL LINES AND ROTATED INVERTER PADS. (2)



GRAPHIC SCALE
150' 75' 0 150'
SCALE IN FEET
1" = 150'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- INDEX CONTOUR LINE
- INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

NOTE:
1. PROPOSED TREE LINE SHOWN FOR CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINE.

2. CONTRACTOR TO ENSURE NO DISRUPTION TO MONITORING WELLS DURING CONSTRUCTION ACTIVITIES.

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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650 Suffolk Street
Suite 200
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Tel: (978) 970-5600
www.TRCcompanies.com

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JAN 16 2020

Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 12 2020 FILE # 18-0214
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
OVERALL SITE PLAN

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/14/20

SCALE:	1" = 150'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-4

XRefs
Images: P:_TRC Imagery Mapping\Layout\Client Logos\DP_LOGO80.jpg, ..\Images\TurningPoint Energy3.jpg, ESRI Rhode Island Solar Holdings\North Smithfield - Kingstown\SOURCE FILES\tiena fmn map\446001C01020.png

PROPOSED LAYDOWN AREA SEE SHEET 9.0

PROPOSED FENCE

LAT:N41.985713
LONG:W71.592128

PROPOSED SOLAR ARRAYS

EXISTING VEGETATIVE BUFFER

PROPOSED TREE LINE

720'

R30

LAT:N41.986048
LONG:W71.588482

REVISED ARRAYS AND ELECTRICAL LINES

100' SOLAR ARRAY SETBACK

MCS ENTERPRISES LLC
PARCEL ID: 004-049

PROPOSED PERMANENT DETENTION BASIN #3 (SEE SHEET C-5.6, FOR DETAIL)

LAT:N41.984978
LONG:W71.589976

PROPOSED INVERTER PAD

311.99

LAT:N41.984873
LONG:W71.589932

PROPOSED 12' ACCESS ROAD SEE DETAIL ON SHEET C-7.

25' EX. VEGETATION BUFFER (25' MIN WHERE POSSIBLE)

20' CLEARING

LAT:N41.984545
LONG:W71.588092

WALLACE & DOROTHY STONE
PARCEL ID: 007-103

WALLACE & DOROTHY STONE
PARCEL ID: 007-102

EXISTING VEGETATIVE BUFFER

WALLACE & DOROTHY STONE
PARCEL ID: 007-101

FORMERLY: OLD OXFORD RD
CURRENTLY: PRIVATE RD - QUIET TITTLE C.A. NO.PC06-1502

LAT:N41.983990
LONG:W71.589803

PROPOSED INVERTER PAD

LAT:N41.983886
LONG:W71.589759

WILLIAM HORTON KING
PARCEL ID: 007-012

PROPOSED UNDERGROUND ELECTRIC

LAT:N41.983649
LONG:W71.587067

PROPOSED INVERTER PAD

305.7

LAT:N41.983544
LONG:W71.587023

R25

R60

ATE SEE DETAIL
HEET SHEET C-7

R25

LAT:N41.983697
LONG:W71.591719

PROPOSED 20' ACCESS ROAD (SEE DETAIL SHEET C-7)

CONSTRUCTION ENTRANCE TO BE USED FOR INGRESS & EGRESS OF CONSTRUCTION VEHICLES

NARRAGANSETT ELEC CO
PARCEL ID: 007-085

LAT:N41.983325
LONG:W71.590622

LAT:N41.983393
LONG:W71.590331

NARRAGANSETT ELEC CO
PARCEL ID: 007-046

LAT:N41.983228
LONG:W71.590337

MATCHLINE (THIS SHEET)

LAT:N41.983431
LONG:W71.587763

NARRAGANSETT ELEC CO
PARCEL ID: 007-082

PROPOSED TREE LINE

TRUCK ROUTE FOR CONSTRUCTION DELIVERIES

LAT:N41.982998
LONG:W71.589637

NARRAGANSETT ELEC. CO.
PARCEL ID: 007-084

MATCHLINE (SEE SHEET C-4.2)

PROPOSED 20' ACCESS ROAD (SEE DETAIL SHEET C-7)

MW

82442
82435

PROPOSED FENCE

WILLIAM HORTON KING
PARCEL ID: 007-012

PROPOSED TREE LINE

CW-5A

CW-5B

CW-5C

EXISTING GAS LINE

GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

MATCHLINE (THIS SHEET)

MATCHLINE (SEE SHEET C-4.2)

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- INDEX CONTOUR LINE
- INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 1 2 2020 FILE # 18-0214
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NOTE:

1. PROPOSED TREE LINE SHOWN FOR CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINE.

2. CONTRACTOR TO ENSURE NO DISRUPTION TO MONITORING WELLS DURING CONSTRUCTION ACTIVITIES.

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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650 Suffolk Street
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Tel: (978) 970-5600
www.TRCcompanies.com

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JAN 16 2020

Applicant
DEPCOM POWER
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
SITE PLAN - WEST

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 60'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000

DRAWING NO.:
C-4.1

X:\Projects Power\North Smithfield - Wind\CAD\Plot Sheets\SPP Prints\C-4 Site Plan.dwg 06-14-2020 3:23:11 PM EST Steve
XRefs
Images: ...\Work\North Smithfield\01_xrTB.dwg ...\Work\North Smithfield\04_xrSITE.dwg ...\Work\North Smithfield\05_xrSWF.dwg ...\Work\North Smithfield\06_xrGRADE.dwg
F:_TRC Imagery-Mapping\Logos\Client Logos\SP_LOGO60.png ...\Images\TurningPoint Energy\8.jpg J:\TPE Rhode Island Solar Holdings\North Smithfield - Wind\SOURCE FILES\Name from map\4495FC01D3D.png

MCS ENTERPRISES LLC
PARCEL ID: 004-049

PROPOSED FENCE

LAT:N41.985234
LONG:W71.584096

100' SOLAR ARRAY SETBACK

EXISTING VEGETATIVE BUFFER

WALLACE & DOROTHY STONE
PARCEL ID: 007-104

WALLACE & DOROTHY STONE
PARCEL ID: 007-103

PROPOSED TREE LINE

PROPOSED FENCE

50' PERIMETER WETLAND

10' PROJECT BUFFER

WALLACE & DOROTHY STONE
PARCEL ID: 007-014

WALLACE & DOROTHY STONE
PARCEL ID: 007-105

PROPOSED TREE LINE

LAT:N41.984680
LONG:W71.582958

LAT:N41.984679
LONG:W71.582695

LAT:N11.984410
LONG:W71.583831

LAT:N41.984382
LONG:W71.583334

Trout Brook Pond
(Open Water)

ZONE "A"

R30

PROPOSED 100' DIA. CUL-DE-SAC TURN AROUND

LAT:N41.984
LONG:W71.5

REVISED ARRAYS AND ELECTRICAL LINES

PROPOSED SOLAR ARRAYS

120'

R30

LAT:N41.983760
LONG:W71.584638

UE

UE

UE

UE

OE

283.77

LAT:N41.983656
LONG:W71.584594

R60

PROPOSED PERMANENT DETENTION BASIN #1
(SEE SHEET C-5.4, FOR DETAIL)

LAT:N41.983588
LONG:W71.581998

LAT:N41.983546
LONG:W71.581909

LAT:N41.983426
LONG:W71.582222

R60

WILLIAM HORTON KING
PARCEL ID: 007-012

PROPOSED 12' ACCESS ROAD. SEE DETAIL ON SHEET C-7.

PROPOSED 20' ACCESS ROAD (SEE DETAIL SHEET C-7)

60'

10' PROJECT BUFFER

LAT:N41.983038
LONG:W71.582452

50' PERIMETER WETLAND

100 YEAR FLOODPLAIN

LAT:N41.982717
LONG:W71.584637

283.54

LAT:N41.982613
LONG:W71.584593

100 YEAR FLOODPLAIN

PROPOSED PERMANENT DETENTION BASIN #2
(SEE SHEET C-5.5, FOR DETAIL)

LAT:N41.982208
LONG:W71.584714

PROPOSED INVERTER PAD (TYP)

PROPOSED UNDERGROUND ELECTRIC

UE

UE

UE

279.99

22+00

23+00

24+00

25+00

26+00

27+00

28+00

29+00

R60

LAT:N41.982104
LONG:W71.584670

TOWN OF NORTH SMITHFIELD
PARCEL ID: 004-047

MW-308A-C

PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE

100' SOLAR ARRAY SETBACK

10' PROJECT BUFFER

PROPOSED TREE LINE

200' RIVERBANK WETLAND

MATCHLINE (SEE SHEET C-4.1)

MATCHLINE (SEE SHEET C-4.3)

N

GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- INDEX CONTOUR LINE
- INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINE OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

NOTE:
1. PROPOSED TREE LINE SHOWN FOR CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINE.

2. CONTRACTOR TO ENSURE NO DISRUPTION TO MONITORING WELLS DURING CONSTRUCTION ACTIVITIES.

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/202
1	ISSUED FOR CONSTRUCTION	06/05/201

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
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JAN 15 2020

Applicant

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9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 12 2020
NO CHANGES ALLOWED WITHOUT WRITTEN APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

180744

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

SITE PLAN - EAST

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 60'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-4.2

01/14/20

Xrefs: ...\Work\North Smithfield-01_grTR.dwg ...\Work\North Smithfield-04_grSITE.dwg ...\Work\North Smithfield-03_grSIT.dwg ...\Work\North Smithfield-05_grSURVEY.dwg
Images: FL_TRC Imagery Mapping\Logos\Client Logos\DP_LOGO50.png ...\Images\TurningPoint Energy2.jpg 2019© Rhode Island Solar Holdings\North Smithfield - Kbg\SOURCE FILES\Bma firm map\44001021033.png

MATCHLINE (SEE SHEET C-4.3)

MW GP-8
LAT:N41.981630
LONG:W71.584997
EXISTING VEGETATIVE BUFFER
EXISTING GAS LINE
26'
21'
MW-301A-D
WILLIAM HORTON KING
PARCEL ID: 007-012
100' SOLAR ARRAY SETBACK
LAT:N41.980983
LONG:W71.584993
LAT:N41.980880
LONG:W71.584637
PROPOSED FENCE
15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 122 PG 244 SPECIAL EXCEPTION NO. 14 CARON TITLE
MW-1C
10' PROJECT BUFFER
LAT:N41.980507
LONG:W71.583817
ALFRED M CARON
PARCEL ID: 007-023
100' SOLAR ARRAY SETBACK
60'
MW-302A-C
PROPOSED TREE LINE
100' SOLAR ARRAY SETBACK
PROPOSED RECEIVING PIT
30'
40'
EXISTING WETLAND CROSSING
PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE
FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE
100' RIVERBANK WETLAND
EXISTING RIVER/STREAM CENTERLINE
100' RIVERBANK WETLAND
100' SOLAR ARRAY SETBACK
200' RIVERBANK WETLAND
10' PROJECT BUFFER
POLE FOR CUSTOMER RECLOSER
50' PERIMETER WETLAND
10' PROJECT BUFFER
MW
U.S. GOVERNMENT
PARCEL ID: 007-066
POCC CUSTOMER OWNED MANUAL GENERATOR DISCONNECTING MEANS (GANG OPERATED, UTILITY LOCKABLE, 24X7 ACCESSIBLE, GROUNDABLE)
PROPOSED BORING PIT
POLE FOR UTILITY METER ACCESSIBLE 24X7
POLE FOR UTILITY RECLOSER ACCESSIBLE 24X7
POLE FOR UTILITY DISCONNECT SWITCH ACCESSIBLE 24X7 LOCKABLE
200' RIVERBANK WETLAND
10' PROJECT BUFFER
MW-304A-C
40'
30'
15'
PROPOSED UNDERGROUND ELECTRIC (BORE UNDER WETLAND AT EXISTING CROSSING)
EXISTING WETLAND
REMOVE TREES AS NEEDED
POINT OF INTERCONNECTION
POUND HILL RD PUBLIC RIGHT-OF-WAY 50'
TROUT BROOK CENTERLINE
EXISTING RESIDENCE #1363
EXISTING OVERHEAD ELECTRIC
EXISTING OVERHEAD ELECTRIC
CW-6A
CW-6B
CW-6C
GP-6
W-104A
MW-104B
MW-303A-D
100 YEAR FLOODPLAIN
200' RIVERBANK WETLAND
10' PROJECT BUFFER
FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE
CHARLES S WILSON
PARCEL ID: 007-068
LAT:N41.978201
LONG:W71.582019
MW-305A-C
ALFRED M & SANDRA M CARON
PARCEL ID: 007-024
RICHARD M & PAMELA J COSTELLO
PARCEL ID: 007-155
EXISTING RESIDENCE #1375
ROCHELLE WHITE
PARCEL ID: 007-070
LAT:N41.978163
LONG:W71.580712
THE ANGLES AND DISTANCES FOR THE DASHED LINES ARE APPROXIMATE BASED ON A RECORDED PLAN FOR CARON'S PREDECESSOR
REVISED ARRAYS AND ELECTRICAL LINES
2
GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS SECTION
AS SHOWN ON PLANS REVIEWED WITH APPLICATION
DATED
FILE #
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
MAR 12 2020
Jennifer D. Schmidt

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- INDEX CONTOUR LINE
- INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

NOTE:
1. PROPOSED TREE LINE SHOWN FOR CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINE.

2. CONTRACTOR TO ENSURE NO DISRUPTION TO MONITORING WELLS DURING CONSTRUCTION ACTIVITIES.

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

TRC
TRC Engineers, Inc.
650 Suffolk Street
Suite 200
Lowell, MA 01854
Tel: (978) 970-5600
www.TRCcompanies.com
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RECEIVED
JAN 15 2020

Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
SITE PLAN - SOUTH

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/14/20

SCALE:	1" = 60'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-4.3

Xrefs:
Images: _1_Work\North Smithfield-01_xCTR.dwg _1_Work\North Smithfield-04_xSEITE.dwg _1_Work\North Smithfield-03_xCSV.dwg _1_Work\North Smithfield-05_xEGRADE.dwg
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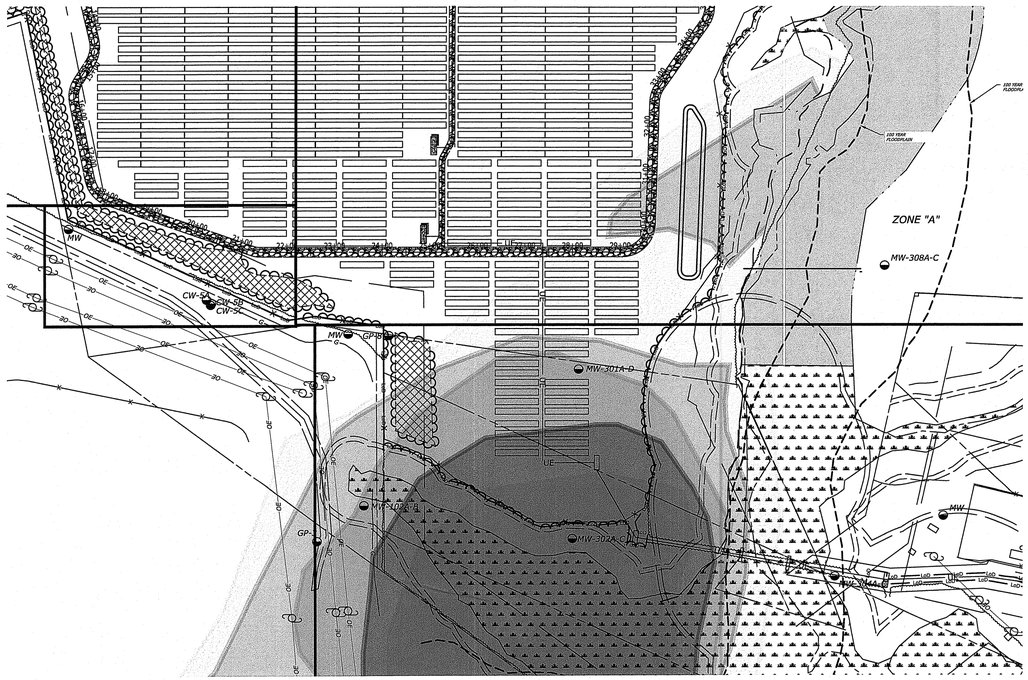
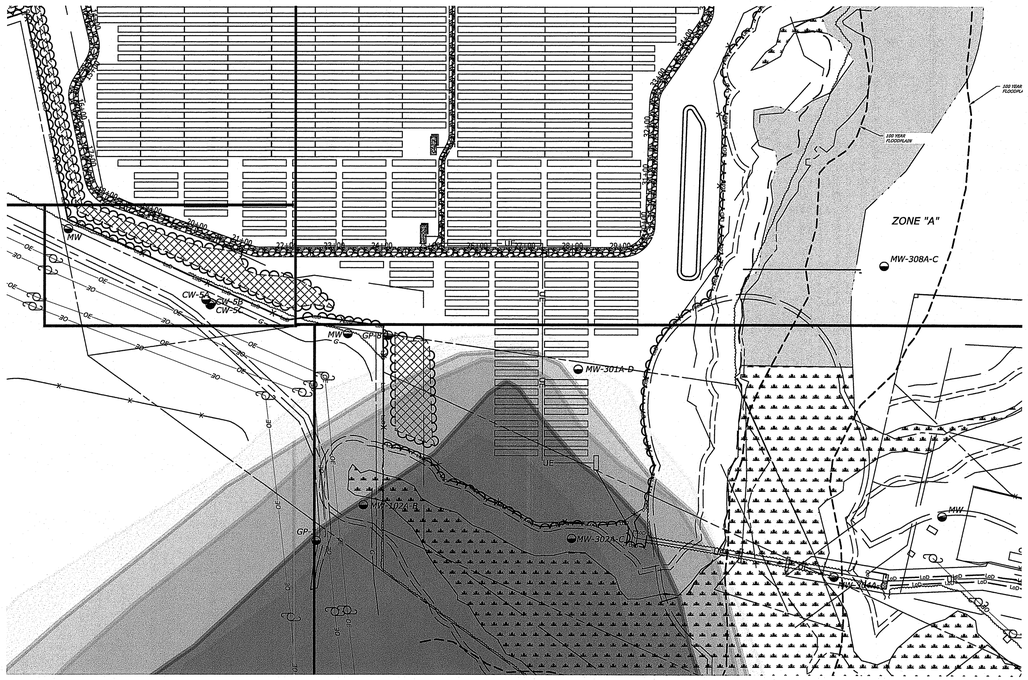
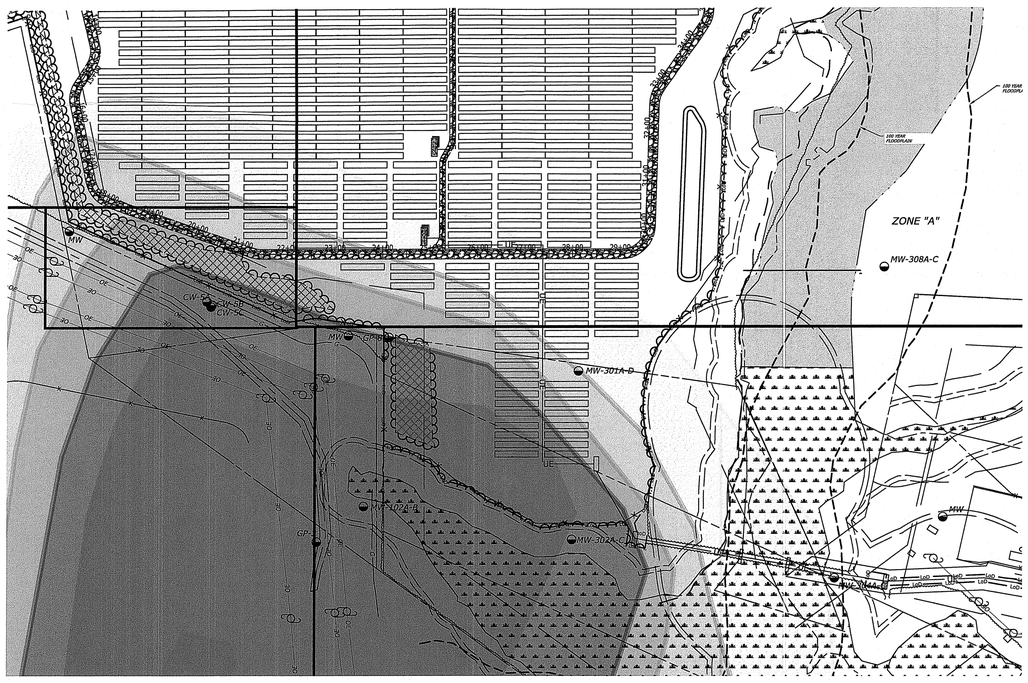
J:\Deposit Power\Work Smithfield - King\CAD\Xref Sheets\[SPP Plans\C-4 Site Plan.dwg, 01-14-2020 3:23:55 PM, EP, Sitea



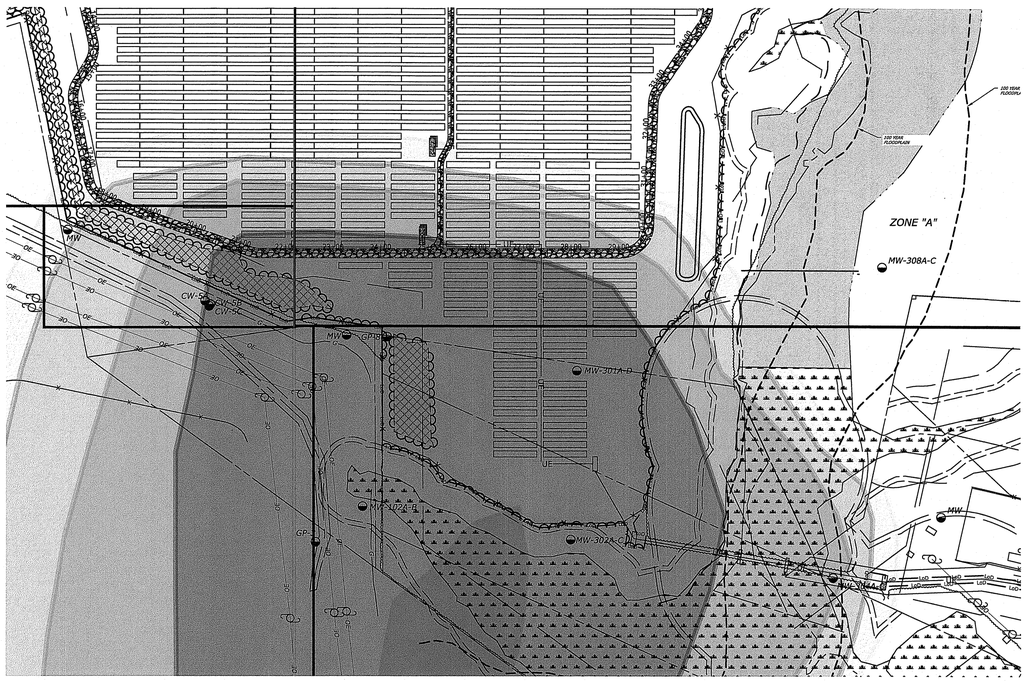
SHALLOW OVERBURDEN



INTERMEDIATE OVERBURDEN



DEEP OVERBUDEN



BEDROCK OVERBURDEN

GRAPHIC SCALE
150' 75' 0 150'
SCALE IN FEET
1" = 150'

N

LEGEND

VOC ISOPETHS PLUME

- VOC ISOPETHS PLUME 0.3(UG/L)
- VOC ISOPETHS PLUME 3(UG/L)
- VOC ISOPETHS PLUME 10(UG/L)
- VOC ISOPETHS PLUME 50(UG/L)
- VOC ISOPETHS PLUME 100(UG/L)
- VOC ISOPETHS PLUME 300(UG/L)

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 12 2020 FILE #: 8803/4
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Cynthia D. Wennock

NOTE:
1. PROPOSED TREE LINE SHOWN FOR CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINE.

2. CONTRACTOR TO ENSURE NO DISRUPTION TO MONITORING WELLS DURING CONSTRUCTION ACTIVITIES.

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

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JAN 16 2020

Applicant:
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
GROUNDWATER PLUMES EXHIBIT

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/14/20

SCALE:	1" = 150'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-4.4

L:\Depcom Power\North Smithfield - Wind\GIS\Plot Sheets\GPC Plots\C-4.4 GW Plume.mxd 01-14-2020 3:39:43 PM BY: JBlow

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Images: F:_TRC Imagery-Mapping\Logos\Client Logos\DPP_LOGO90.png ..\Images\Turning Point Energy2.jpg J:\TPE-Rhode Island Solar Holding\North Smithfield - Wind\DOCS\RCE FILES\tma-firm-mark\M0070210S0.png

NOTE:

ARRAY POSTS WILL BE DRIVEN POSTS OR SCREW PILES, THERE WILL BE NO CONCRETE BALLAST BLOCKS. ARRAYS WILL BE ELEVATED ABOVE GRADE WITH AT LEAST 6" LAYER OF LOAM TOPSOIL AND BE VEGETATED WITH GRASS BENEATH THE PROPOSED ARRAY AREA.

FLOOD AREA NOTES

THE FEMA MAPPING FOR THE PROJECT AREA INDICATES THAT THERE IS AN AREA OF MINIMAL FLOODING LOCATED AROUND THE EXISTING STREAM ON THE EASTERN SIDE OF THE PROJECT. BASED ON THE FEMA MAPPING AN APPROXIMATE 100-YEAR FLOOD ELEVATION WAS ESTABLISHED AND SHOWN ON THE PLAN. THIS 100-YEAR FLOOD AREA IS APPROXIMATE AS NO DETAILED FLOOD STUDY, BASE ELEVATION OR CROSS SECTIONS WERE ESTABLISHED FOR THIS AREA.

A STUDY WAS PERFORMED USING USGS INFORMATION TO CALCULATE STORMWATER FLOW FROM THE UPSLOPE DRAINAGE AREA DURING 100-YEAR STORM. THIS FLOW WAS ROUTED THROUGH A CROSS SECTION GENERATED FROM SURVEY DATA IN ORDER TO CALCULATE AN APPROXIMATE 100-YEAR FLOW ELEVATION, WHICH IS PROVIDED ON THE PLAN. THIS STUDY IS INCLUDED IN SECTION 3.2.6 OF THE STORMWATER MANAGEMENT REPORT PREPARED FOR THIS SITE.

GEOTECHNICAL/SOILS NOTES

- IF LOAD BEARING FILL IS REQUIRED SAID FILL SHOULD CONSIST OF WELL GRANULATED MATERIAL SIMILAR TO GW AS IDENTIFIED BY USCS OR RIDOT GRAVEL BARROW (STANDARD SPECIFICATION M.01.02)
- BACKFILLS AND FILLS SHOULD BE PLACED IN LIFT LAYERS NOT EXCEEDING 12". LOAD BEARING FILLS FOR THE SUPPORT OF FOUNDATIONS SHOULD BE COMPACTED TO NOT LESS THAN 98% OF MAXIMUM DRY DENSITY (ASTM D-698). FILLS IN LANDSCAPE AREAS SHOULD BE COMPACTED TO A MINIMUM 90% OF MAXIMUM DRY DENSITY.
- SIDEWALLS OF CONFINED EXCAVATIONS DEEPER THAN 4 FEET MUST BE SLOPED, BENCHED OR ADEQUATELY SHORED PER OSHA 29 CFR 1926 REGULATIONS.
- OPEN EXCAVATIONS IN THE NATURAL SOILS SHOULD NOT BE STEEPER THAN 1.5H:1V, IF DRY.
- ALL IMPORTED FILL MATERIAL SHALL BE SAMPLED AND TESTED BY A GEOTECHNICAL ENGINEER OR OTHER QUALIFIED SOIL TESTING AGENCY PRIOR TO BEING TRANSPORTED TO THE SITE.
- FOR ADDITIONAL SOILS AND GEOTECHNICAL REQUIREMENTS, TECHNICAL GUIDANCE AND INFORMATION CONTRACTOR OR REPRESENTATIVE SHALL REFER TO THE JUNE 27, 2018 GEOTECHNICAL ENGINEERING REPORT. PREPARED BY TRC.

MONITORING WELL NOTES:

1. MONITORING WELLS MW 301 A-D ARE WITHIN THE CONSTRUCTION AREA OF THIS SITE. THESE WELLS SHALL BE PROTECTED FROM CONSTRUCTION EQUIPMENT VIA THE USE OF JERSEY BARRIERS OR OTHER APPROVED MEASURES UNTIL GRADING OPERATIONS ARE COMMENCED.
2. PRIOR TO GRADING AROUND MONITORING WELLS (MW-301 A-D), ALL WELLS SHALL BE EXTENDED USING RISERS PER THE DETAIL PROVIDED ON SHEET C-5.3. THE WELLS SHALL BE EXTENDED TO AN ELEVATION RELATIVE TO PROPOSED GRADE TO MATCH THEIR CURRENT CONDITION.
3. COMPACTION OF FILL AROUND THESE MONITORING WELLS SHALL BE COMPLETED USING A JUMPING JACK OR OTHER LOW-IMPACT COMPACTION EQUIPMENT SO THAT THE INTEGRITY OF THE WELL IS NOT COMPROMISED.
4. ALL CONSTRUCTION RELATED TO THESE MONITORING WELLS SHALL BE IN ACCORDANCE WITH THE "HANDBOOK OF SUGGESTED PRACTICES FOR THE DESIGN AND INSTALLATION OF GROUND-WATER MONITORING WELLS", PREPARED BY THEN ENVIRONMENTAL MONITORING SYSTEMS LABORATORY OFFICE OF RESEARCH AND DEVELOPMENT, U.S. ENVIRONMENTAL PROTECTION AGENCY, MOST CURRENT EDITION.

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 — INDEX CONTOUR LINE
- 421 — INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 — INTERMEDIATE CONTOUR LINES
- 420 — INDEX CONTOUR LINES
- 2.00% — SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NOTE:

1. DESIGNATED AREAS AROUND THE SOLAR ARRAYS WILL BE STABILIZED WITH A LOW-HEIGHT, POLLINATOR-FRIENDLY SEED MIX. THE PLANTS INCLUDED IN THE POLLINATOR SEED MIX, WHICH IS INTENDED TO PROVIDE FOOD AND SHELTER FOR WILDLIFE AND WILL ATTRACT A VARIETY OF POLLINATORS AND SONGBIRDS. THE WILDFLOWERS AND GRASSES IN THE SELECTED MIX WILL PROVIDE AN ATTRACTIVE DISPLAY OF COLOR FROM SPRING TO FALL AND WILL PROVIDE NECTAR AND FOOD FOR POLLINATORS AND THEIR LARVA.
2. CONTRACTOR TO ENSURE NO DISRUPTION TO MONITORING WELLS DURING CONSTRUCTION ACTIVITIES.

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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JAN 16 2020

Applicant

DEPCOM POWER®
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JAN 1 2 2020
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

18-0314

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

OVERALL GRADING PLAN

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 150'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5

01/14/20

XRefs: I:\Worklib\North Smithfield\01_wTB.dwg, I:\Worklib\North Smithfield\04_wSITE.dwg, I:\Worklib\North Smithfield\03_wESP.dwg, I:\Worklib\North Smithfield\05_wSRGCE.dwg
Images: F_TRC Imagery-Mapping\Logos\Client Logos\DP_LOGO.jpg, ..\Images\TurningPoint Energy3.jpg, J:\TRC Rhode Island Solar Holdings\North Smithfield - Klug\SOURCE FILES\Nema firm map\44001C0183D.jpg

J:\Dataprep Power\North Smithfield - Klug\CAD\Plot Sheets\GRD Prelim\C-5 - 5.3 Overlay Prelim.dwg 01-14-2020 3:35:31 PM BY: SStra

PROPOSED FENCE

PROPOSED SOLAR ARRAY AREA

PROPOSED TREE LINE

EXISTING VEGETATIVE BUFFER

PROPOSED PERMANENT DETENTION BASIN #3 (SEE SHEET C-5.6, FOR DETAIL)

EMERGENCY SPILLWAY WITH ROCK RIP-RAP

PROPOSED INFILTRATION TRENCH #1 (SEE DETAIL, SHEET C-7)

D50 6" TO BE PLACED BASIN SIDE SLOPE. MIN. THICKNESS 14"

35 LF - 6" HDPE PIPE

EW-3.2

HW-3.1

PROPOSED INVERTER PAD #1 ELEVATION 315.89

315.89

FORMERLY: OLD OXFORD RD
CURRENTLY: PRIVATE RD
QUIET TITLE C.A. NO.PC06-1502

PROPOSED INFILTRATION TRENCH #2 (SEE DETAIL, SHEET C-7)

PROPOSED INVERTER PAD #2 ELEVATION 315.95

315.95

PROPOSED ACCESS ROAD

PROPOSED SOLAR ARRAY AREA

PERMANENT DETENTION BASIN 4

EXISTING VEGETATIVE BUFFER

PROPOSED INFILTRATION TRENCH #3 (SEE DETAIL, SHEET C-7)

PROPOSED INVERTER PAD #3 ELEVATION 305.71

305.71

MATCHLINE (THIS SHEET)

MATCHLINE (SEE SHEET C-4.3)

MW

PROPOSED FENCE

PROPOSED ACCESS ROAD

PROPOSED TREE LINE

EXISTING GAS LINE

5A

CW 5B

CW-5C

MATCHLINE (THIS SHEET)

MATCHLINE (SEE SHEET C-5.2)

GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

NOTES:

1. ARRAY POSTS WILL BE DRIVEN POSTS OR SCREW PILES, THERE WILL BE NO CONCRETE BALLAST BLOCKS. ARRAYS WILL BE ELEVATED ABOVE GRADE WITH AT LEAST 6" LAYER OF LOAM TOPSOIL. AND BE VEGETATED WITH GRASS BENEATH THE PROPOSED ARRAY AREA.
2. ALL IMPORTED FILL MATERIAL SHALL BE SAMPLED AND TESTED BY A GEOTECHNICAL ENGINEER OR OTHER QUALIFIED SOIL TESTING AGENCY PRIOR TO BEING TRANSPORTED TO THE SITE.

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NOTE:

1. DESIGNATED AREAS AROUND THE SOLAR ARRAYS WILL BE STABILIZED WITH A LOW-HEIGHT, POLLINATOR-FRIENDLY SEED MIX. THE PLANTS INCLUDED IN THE POLLINATOR SEED MIX, WHICH IS INTENDED TO PROVIDE FOOD AND SHELTER FOR WILDLIFE AND WILL ATTRACT A VARIETY OF POLLINATORS AND SONGBIRDS. THE WILDFLOWERS AND GRASSES IN THE SELECTED MIX WILL PROVIDE AN ATTRACTIVE DISPLAY OF COLOR FROM SPRING TO FALL AND WILL PROVIDE NECTAR AND FOOD FOR POLLINATORS AND THEIR LARVA.
2. CONTRACTOR TO ENSURE NO DISRUPTION TO MONITORING WELLS DURING CONSTRUCTION ACTIVITIES.

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 1 2020 FILE # 18-0317
THIS APPROVED PLAN MUST BE AT CONSTRUCTION SITE
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:

WILLIAM HORTON KING
6200 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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Applicant

DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

GRADING PLAN - WEST

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 60'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000

DRAWING NO.:

C-5.1

XRefs: L:\Worldwide Smithfield-04_wTIE.dwg ; L:\Worldwide Smithfield-04_wSITE.dwg ; L:\Worldwide Smithfield-03_wEXP.dwg ; L:\Worldwide Smithfield-05_wGRADE.dwg
Images: F:_TRC Imagery-Mapping\Logos\Client Logos\DCP_LOGO500.png ; Images\TurningPoint Energy3.jpg (TYPE Rhode Island Solar Holdings\North Smithfield - Wg\SOURCE FILES\Name firm mxp\440972\21655.png

PLANS ARE NOT TO BE USED FOR CONSTRUCTION UNLESS SIGNED WITHOUT PRIOR APPROVAL

PROPOSED FENCE

100' SOLAR ARRAY SETBACK

50' PERIMETER WETLAND

10' PROJECT BUFFER

APPROXIMATE 100 YEAR FLOOD ELEVATION

EXISTING VEGETATIVE BUFFER

Trout Brook Pond (Open Water)

PROPOSED 100' DIA. CUL-DE-SAC TURN AROUND

PROPOSED FENCE

PROPOSED SOLAR ARRAY AREA

EW-1.2

27 LF - 6" HDPE PIPE

HW-1.1

EMERGENCY SPILLWAY WITH ROCK RIP-RAP

PROPOSED DETENTION BASIN #1 (SEE SHEET C-5.4, FOR DETAIL)

PROPOSED INFILTRATION TRENCH #4 (SEE DETAIL, SHEET C-7)

PROPOSED INVERTER PAD #4 ELEVATION 283.77

D50 6" TO BE PLACED ON BASIN SIDE SLOPE, MIN. THICKNESS 14"

APPROXIMATE 100 YEAR FLOOD ELEVATION

10' PROJECT BUFFER

50' PERIMETER WETLAND

EW-2.2

26 LF - 12" HDPE PIPE

HW-2.1

EMERGENCY SPILLWAY WITH ROCK RIP-RAP

PROPOSED INFILTRATION TRENCH #5 (SEE DETAIL, SHEET C-7)

PROPOSED UNDERGROUND ELECTRIC

PROPOSED INVERTER PAD #5 ELEVATION 283.54

PROPOSED INFILTRATION TRENCH #6 (SEE DETAIL, SHEET C-7)

PROPOSED INVERTER PAD #6 ELEVATION 283.99

D50 6" TO BE PLACED ON BASIN SIDE SLOPE, MIN. THICKNESS 14"

PROPOSED DETENTION BASIN #2 (SEE SHEET C-5.5, FOR DETAIL)

MW-308A-C

PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE

EXISTING VEGETATIVE BUFFER

PROPOSED TREE LINE

MATCHLINE (SEE SHEET C-5.1)

MATCHLINE (SEE SHEET C-5.3)

NOTES:

1. ARRAY POSTS WILL BE DRIVEN POSTS OR SCREW PILES, THERE WILL BE NO CONCRETE BALLAST BLOCKS. ARRAYS WILL BE ELEVATED ABOVE GRADE WITH AT LEAST 6" LAYER OF LOAM TOPSOIL AND BE VEGETATED WITH GRASS BENEATH THE PROPOSED ARRAY AREA.
2. ALL IMPORTED FILL MATERIAL SHALL BE SAMPLED AND TESTED BY A GEOTECHNICAL ENGINEER OR OTHER QUALIFIED SOIL TESTING AGENCY PRIOR TO BEING TRANSPORTED TO THE SITE.

GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NOTE:

1. DESIGNATED AREAS AROUND THE SOLAR ARRAYS WILL BE STABILIZED WITH A LOW-HEIGHT, POLLINATOR-FRIENDLY SEED MIX. THE PLANTS INCLUDED IN THE POLLINATOR SEED MIX, WHICH IS INTENDED TO PROVIDE FOOD AND SHELTER FOR WILDLIFE AND WILL ATTRACT A VARIETY OF POLLINATORS AND SONGBIRDS. THE WILDFLOWERS AND GRASSES IN THE SELECTED MIX WILL PROVIDE AN ATTRACTIVE DISPLAY OF COLOR FROM SPRING TO FALL AND WILL PROVIDE NECTAR AND FOOD FOR POLLINATORS AND THEIR LARVA.
2. CONTRACTOR TO ENSURE NO DISRUPTION TO MONITORING WELLS DURING CONSTRUCTION ACTIVITIES.

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

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Tel: (978) 970-5600
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© TRC Engineers, Inc.

LIMITATIONS OF APPROVAL
FRESHWATER WETLANDS
APPROVED WORK SHALL BE CONDUCTED
AS SPECIFIED IN THE LETTER
DATED MAR 12 2020
NO CHANGES ALLOWED WITHOUT WRITTEN APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
18-03/4
JAN 16 2020

Applicant:
DEPCOM POWER.
19185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
GRADING PLAN - EAST

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 60'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5.2

Xrefs:
Images:

MATCHLINE (SEE SHEET C-5.2)

NOTES:

1. ARRAY POSTS WILL BE DRIVEN POSTS OR SCREW PILES, THERE WILL BE NO CONCRETE BALLAST BLOCKS. ARRAYS WILL BE ELEVATED ABOVE GRADE WITH AT LEAST 6" LAYER OF LOAM TOPSOIL. AND BE VEGETATED WITH GRASS BENEATH THE PROPOSED ARRAY AREA.
2. ALL IMPORTED FILL MATERIAL SHALL BE SAMPLED AND TESTED BY A GEOTECHNICAL ENGINEER OR OTHER QUALIFIED SOIL TESTING AGENCY PRIOR TO BEING TRANSPORTED TO THE SITE.

MONITORING WELL NOTES:

1. MONITORING WELLS MW 301 A-D ARE WITHIN THE CONSTRUCTION AREA OF THIS SITE. ALL WORK ASSOCIATED WITH EXTENDING THESE WELLS AND GRADING AROUND THEM SHOULD BE IN COMPLIANCE WITH A MEMO PREPARED BY WOODARD AND CURRAN ENTITLED "EXTENSION OF MONITORING WELLS BH16-01 AND MW-301 L&RR SUPERFUND SITE , NORTH SMITHFIELD, RHODE ISLAND" DATED NOVEMBER 1, 2019.

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NOTE:

1. DESIGNATED AREAS AROUND THE SOLAR ARRAYS WILL BE STABILIZED WITH A LOW-HEIGHT, POLLINATOR-FRIENDLY SEED MIX. THE PLANTS INCLUDED IN THE POLLINATOR SEED MIX, WHICH IS INTENDED TO PROVIDE FOOD AND SHELTER FOR WILDLIFE AND WILL ATTRACT A VARIETY OF POLLINATORS AND SONGBIRDS. THE WILDFLOWERS AND GRASSES IN THE SELECTED MIX WILL PROVIDE AN ATTRACTIVE DISPLAY OF COLOR FROM SPRING TO FALL AND WILL PROVIDE NECTAR AND FOOD FOR POLLINATORS AND THEIR LARVA.
2. CONTRACTOR TO ENSURE NO DISRUPTION TO MONITORING WELLS DURING CONSTRUCTION ACTIVITIES.

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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650 Suffolk Street
Suite 200
Lowell, MA 01854
Tel: (978) 970-5600
www.TRCcompanies.com

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Applicant

DEPCOM POWER®
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

GRADING PLAN - SOUTH

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/14/20

SCALE:	1" = 60'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5.3

GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

JAN 16 2020

RECEIVED
JAN 16 2020

FILE # 2032
AS REQUIRED BY THE RHODE ISLAND GENERAL LAWS, ANY ALTERATIONS ENTERED UPON THESE PLANS OR ANY DEVIATIONS FROM THE APPROVED PLANS SHALL BE AT CONSTRUCTION SITE

RECEIVED
JAN 16 2020

C:\Depcom Power Projects - Smithfield — King Croft\Civil Sheets\[DPC Plans(5-21-19 Grading Plan.dwg, 01-14-2020 3:25:48 PM, EST, Stiles
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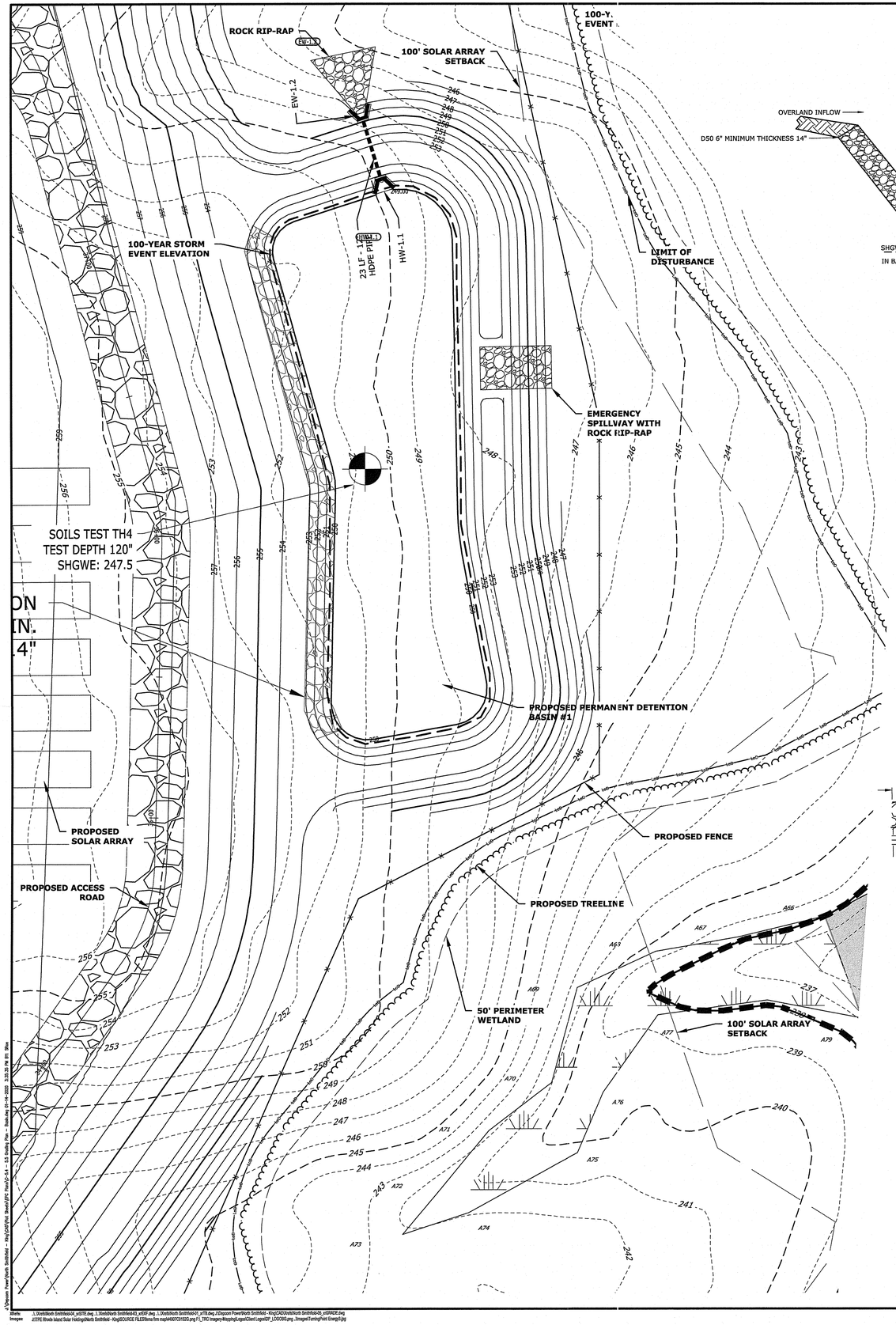
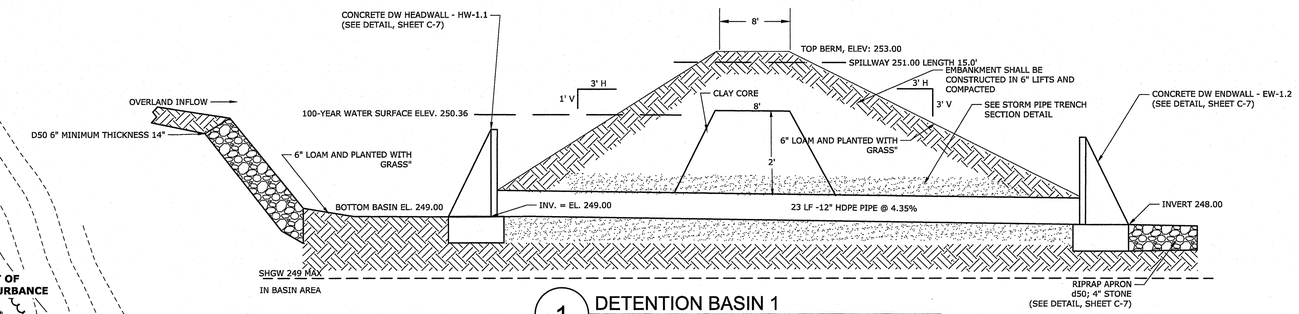
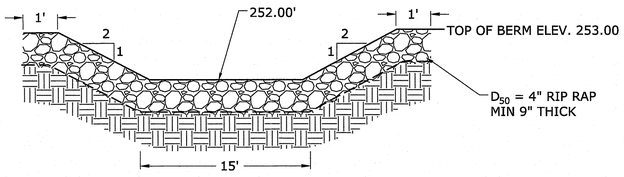




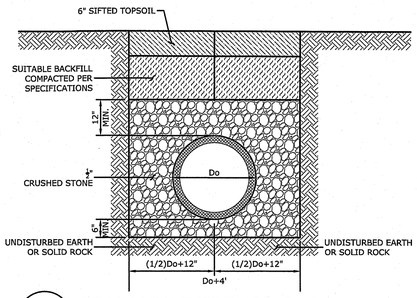
1 DETENTION BASIN 1
SCALE: NTS

BASIN EARTHWORK NOTES:

1. FILL MATERIAL SHOULD BE TAKEN FROM APPROVED DESIGNATED EXCAVATION AREAS. IT SHOULD BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6 INCHES, OR OTHER OBJECTIONABLE MATERIALS. MATERIALS ON THE OUTER SURFACE OF THE EMBANKMENT MUST HAVE THE CAPABILITY TO SUPPORT VEGETATION.
2. AREAS WHERE FILL IS TO BE PLACED SHOULD BE SCARIFIED PRIOR TO PLACEMENT. FILL MATERIALS THE EMBANKMENT SHOULD BE PLACED IN MAXIMUM 6-INCH LIFTS. THE PRINCIPAL SPILLWAY SHOULD BE INSTALLED CONCURRENTLY WITH FILL PLACEMENT AND NOT EXCAVATED INTO THE EMBANKMENT.
3. THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE SITE SHOULD BE CONTROLLED. FOR THE EMBANKMENT, EACH LIFT SHOULD BE COMPACTED TO 95% OF THE STANDARD PROCTOR. FILL MATERIAL SHOULD CONTAIN SUFFICIENT MOISTURE.
4. BACKFILL ADJACENT TO PIPES AND STRUCTURES SHOULD BE OF THE TYPE AND QUALITY OF THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL SHOULD BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL SHOULD FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. AT NO TIME DURING THE BACKFILLING OPERATION SHOULD DRIVEN EQUIPMENT BE UTILIZED CLOSER THAN 4 TO ANY STRUCTURE.
5. FILL MATERIAL MUST MEET ALL STATE REGULATIONS.



2 SPILLWAY DETAIL BASIN 1
SCALE: NTS



3 STORM PIPE TRENCH SECTION
SCALE: NTS

DETENTION BASIN 1 AREA/VOLUME CALCULATIONS

ELEVATION	BASIN AREA (SF)	BASIN INCREMENTAL VOLUME (CF)	BASIN VOLUME (CF)
249.0	0	0	0
250.0	9,667	4,834	4,834
251.0	11,109	10,388	15,222
252.0	12,604	11,857	27,078
253.0	14,200	13,402	40,480

GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
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- DRAINAGE CULVERT OR PIPE
- RIPRAP

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED IN ACCORDANCE WITH THE CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 12 2020 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
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MARTIN, FL 33455

ALFRED M CARON
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JAN 16 2020

Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
GRADING PLAN - BASIN #1

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 20'
DATE:	06/05/2019
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5.4

01/14/20

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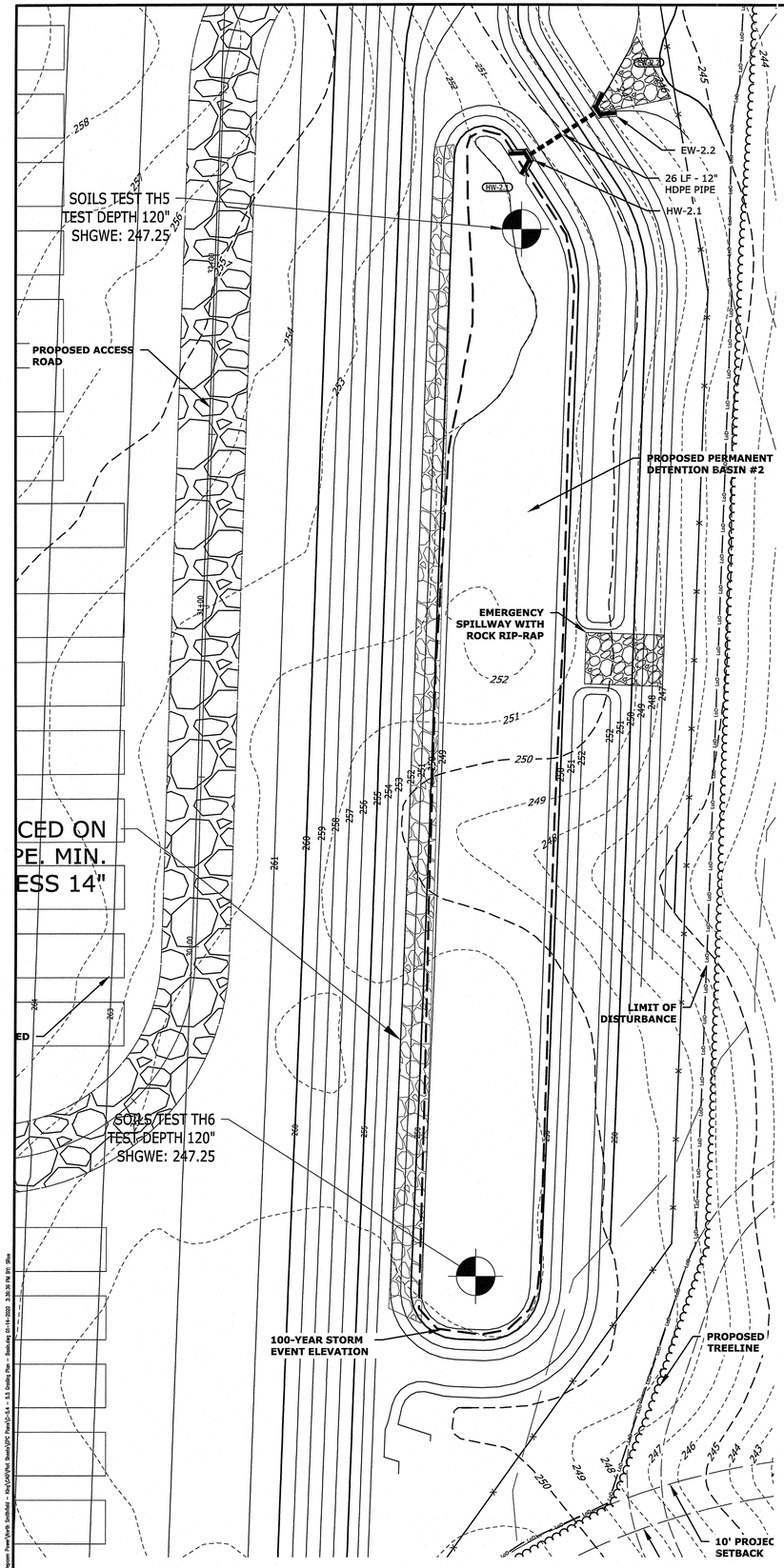

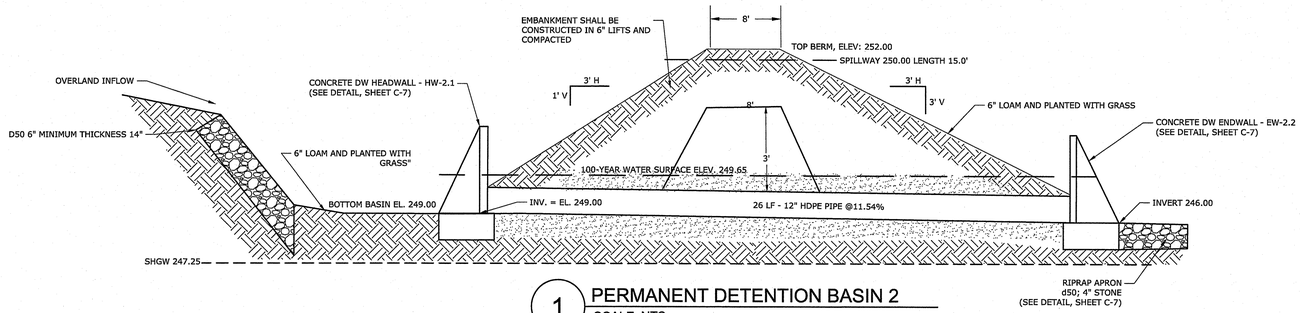

1 PERMANENT DETENTION BASIN 2
SCALE: NTS

BASIN EARTHWORK NOTES:

1. FILL MATERIAL SHOULD BE TAKEN FROM APPROVED DESIGNATED EXCAVATION AREAS. IT SHOULD BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6 INCHES, OR OTHER OBJECTIONABLE MATERIALS. MATERIALS ON THE OUTER SURFACE OF THE EMBANKMENT MUST HAVE THE CAPABILITY TO SUPPORT VEGETATION.
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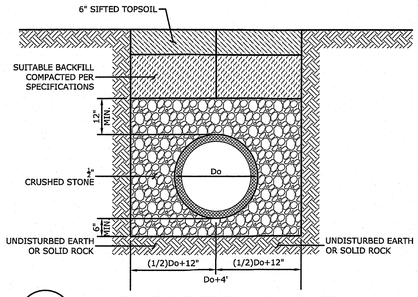
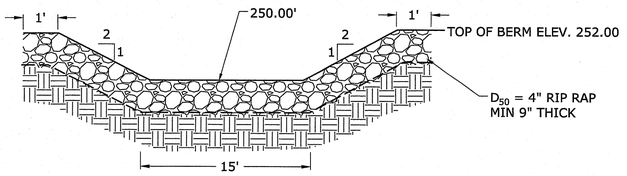
5. FILL MATERIAL MUST MEET ALL STATE REGULATIONS.



3 STORM PIPE TRENCH SECTION
SCALE: NTS



2 SPILLWAY DETAIL BASIN 2
SCALE: NTS

DETENTION BASIN 2 AREA/VOLUME CALCULATIONS

ELEVATION	BASIN AREA (SF)	BASIN INCREMENTAL VOLUME (CF)	BASIN VOLUME (CF)
249.0	9,466	0	0
250.0	12,954	11,210	11,210
251.0	15,476	14,215	25,425
252.0	17,556	16,516	41,941

GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 — INTERMEDIATE CONTOUR LINES
- 420 — INDEX CONTOUR LINES
- 2.00% — SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 12 2020 FILE # 19-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
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JAN 16 2020

Applicant
DEPCOM POWER
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
GRADING PLAN - BASIN #2

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 20'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5.5

01/14/20

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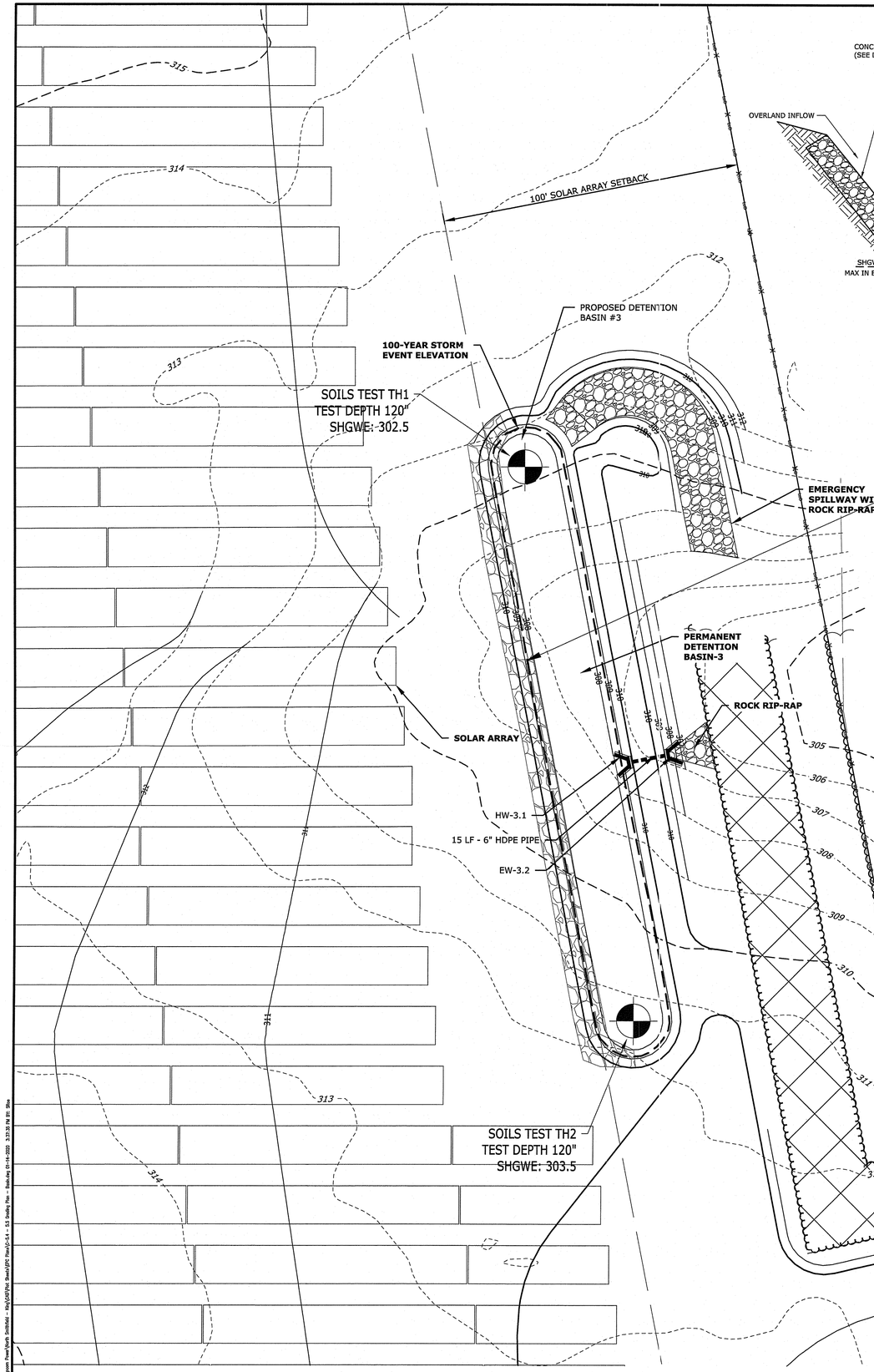
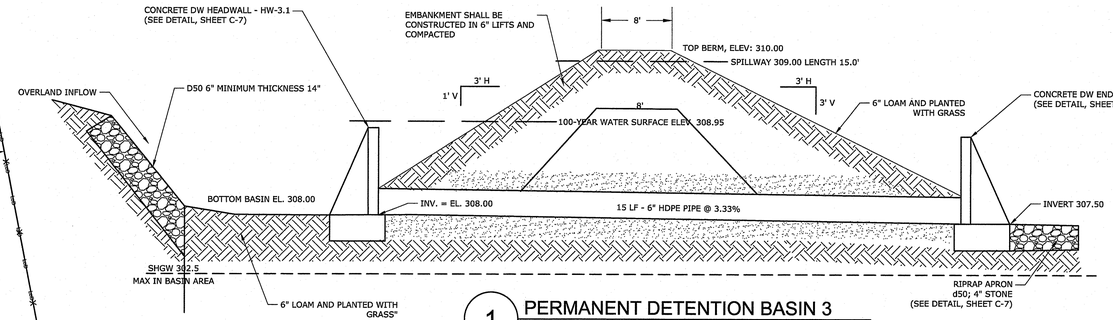
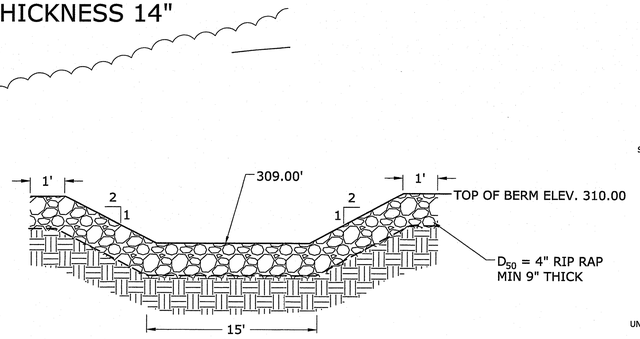


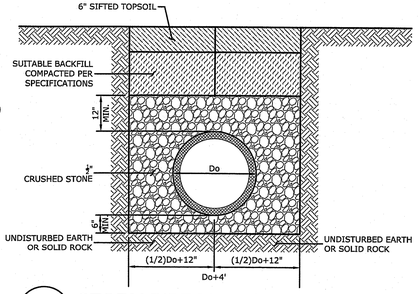


1 PERMANENT DETENTION BASIN 3
SCALE: NTS

D50 6" TO BE PLACED BASIN SIDE SLOPE. MIN. THICKNESS 14"



2 SPILLWAY DETAIL BASIN 3
SCALE: NTS



3 STORM PIPE TRENCH SECTION
SCALE: NTS

BASIN EARTHWORK NOTES:

1. FILL MATERIAL SHOULD BE TAKEN FROM APPROVED DESIGNATED EXCAVATION AREAS. IT SHOULD BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6 INCHES, OR OTHER OBJECTIONABLE MATERIALS. MATERIALS ON THE OUTER SURFACE OF THE EMBANKMENT MUST HAVE THE CAPABILITY TO SUPPORT VEGETATION.
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4. BACKFILL ADJACENT TO PIPES AND STRUCTURES SHOULD BE OF THE TYPE AND QUALITY OF THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL SHOULD BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL SHOULD FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. AT NO TIME DURING THE BACKFILLING OPERATION SHOULD DRIVEN EQUIPMENT BE UTILIZED CLOSER THAN 4 TO ANY STRUCTURE.
5. FILL MATERIAL MUST MEET ALL STATE REGULATIONS.

DETENTION BASIN 3 AREA/VOLUME CALCULATIONS

ELEVATION	BASIN AREA SF.	BASIN INCREMENTAL VOLUME (CF)	BASIN VOLUME (CF)
308.0	4,094	0	0
309.0	5,445	4,770	4,770
310.0	6,852	6,149	10,918

N

GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
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- OPEN WATER
- WETLAND SETBACK LINE
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LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
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- ACCESS DRIVE
- SOLAR ARRAY
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- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 — INTERMEDIATE CONTOUR LINES
- 420 — INDEX CONTOUR LINES
- 2.00% — SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 12 2020 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

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RECEIVED
MAR 13 2020

Applicant
DEPCOM POWER
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
GRADING PLAN - BASIN #3

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/14/20

SCALE:	1" = 20'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5.6

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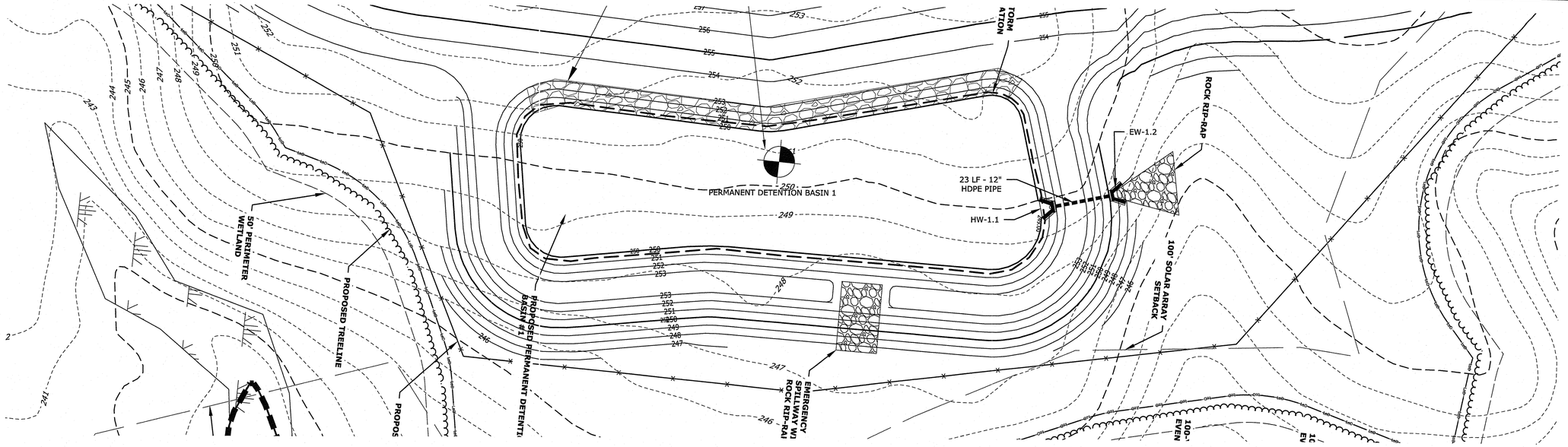

PLAN
SCALE: 1" = 20' H

GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'

HW-1.1 to EW-1.2 (BASIN 1)
HORZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'

GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/20
1	ISSUED FOR CONSTRUCTION	06/05/20

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

STATE OF RHODE ISLAND
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 12 2020 FILE 18-2214
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

TRC Engineers, Inc.
650 Suffolk Street
Suite 200
Lowell, MA 01854
Tel: (978) 970-5600
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JAN 16 2020

Applicant
DEPCOM POWER®
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
BASIN 1 - PIPE RUN

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/14/20

SCALE:	1" = 20'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5.7

Xrefs:
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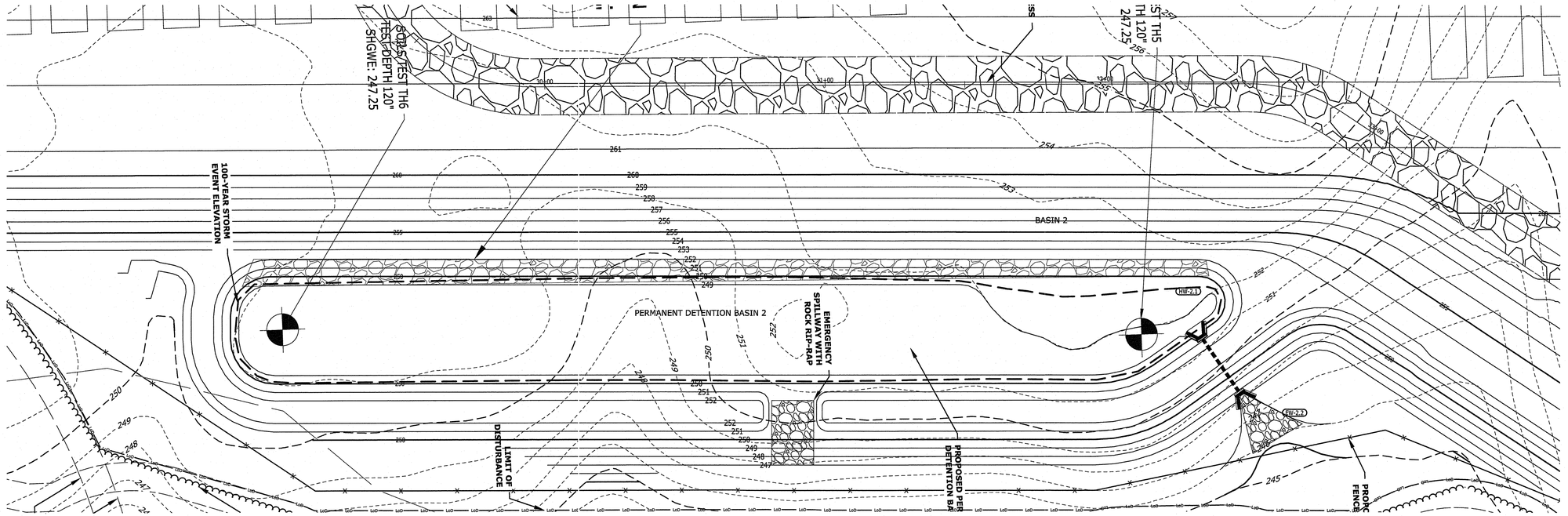
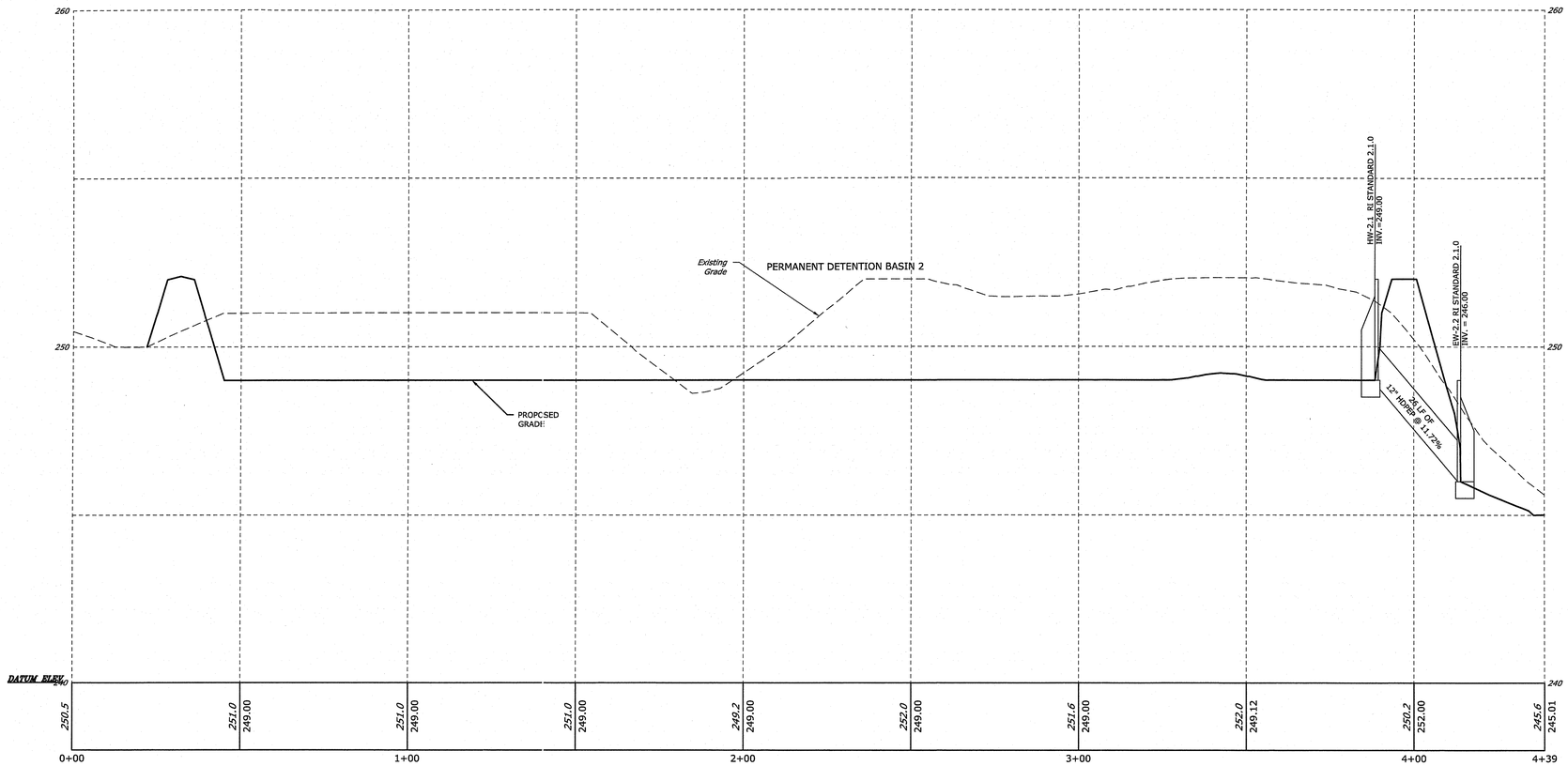


PLAN
SCALE: 1" = 20' H



HW-2.1 to EW-2.2 (BASIN 2)
HORZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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JAN 15 2020
PLANNING & ZONING

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SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
BASIN 2 - PIPE RUN

PREPARED FOR REVIEW AND COMMENT
NOT FOR CONSTRUCTION
PRELIMINARY NOT FOR BIDDING OR RECORDING
AS SPECIFIED BY RI GENERAL LAWS
MAR 12 2020
DATED
NO CHANGES ALLOWED WITHOUT DIRECT WRITTEN
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
08/14/20

SCALE:	1" = 20'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5.8

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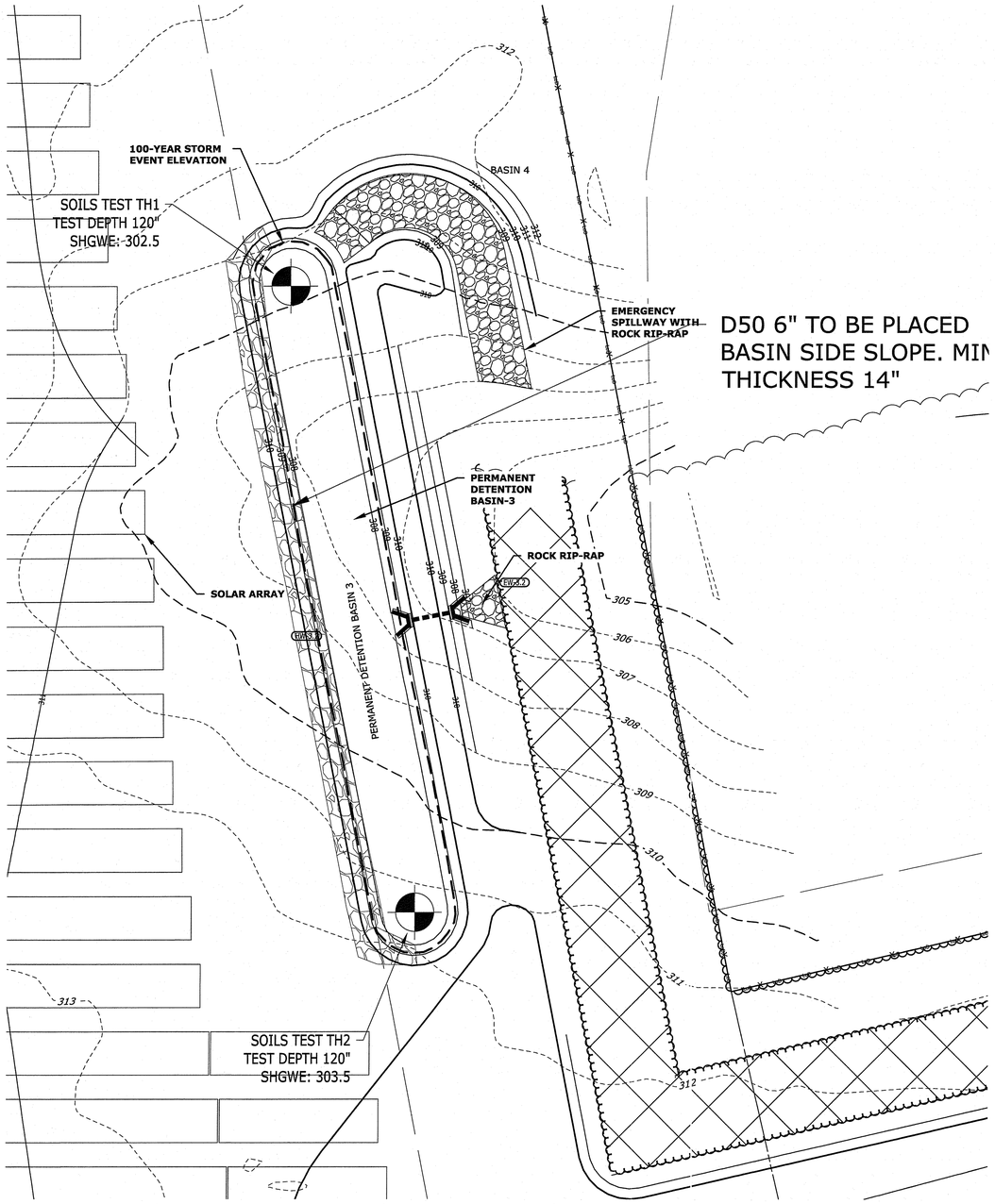
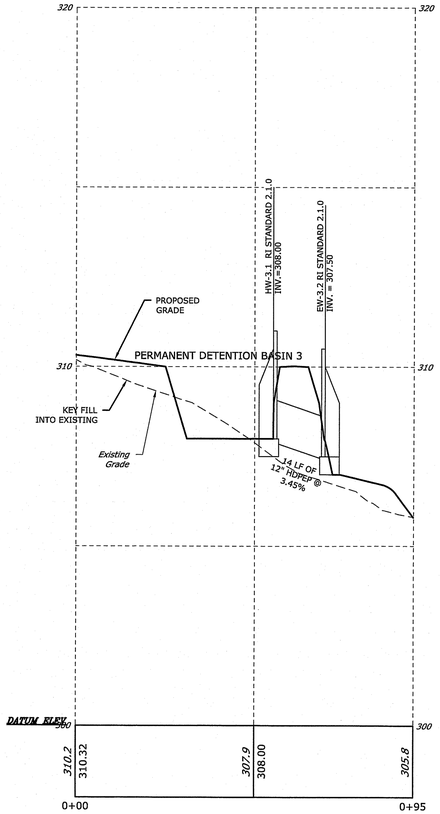


PLAN
SCALE: 1" = 20' H



HW-3.1 to EW-3.2 (BASIN 3)
HORZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'

GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

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650 Suffolk Street
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Applicant

DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
BASIN 3 - PIPE RUN

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 20'
DATE:	06/05/2019
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5.9

DEPARTMENT OF PUBLIC WORKS
OFFICE COPY
PERMIT #
APPROVED
AS SPECIFIED
DATED
NO CHANGES ALLOWED
APPROVED PLANS MUST BE ON SITE
MAR 1 2 2020
18635

XRefs Images: J:\Work\North Smithfield\04_wSITE.dwg; J:\Work\North Smithfield\03_wDEM7.dwg; J:\Work\North Smithfield\01_wTTB.dwg; J:\Depcom Power\North Smithfield - King\CAD\work\North Smithfield\05_wGRADE.dwg
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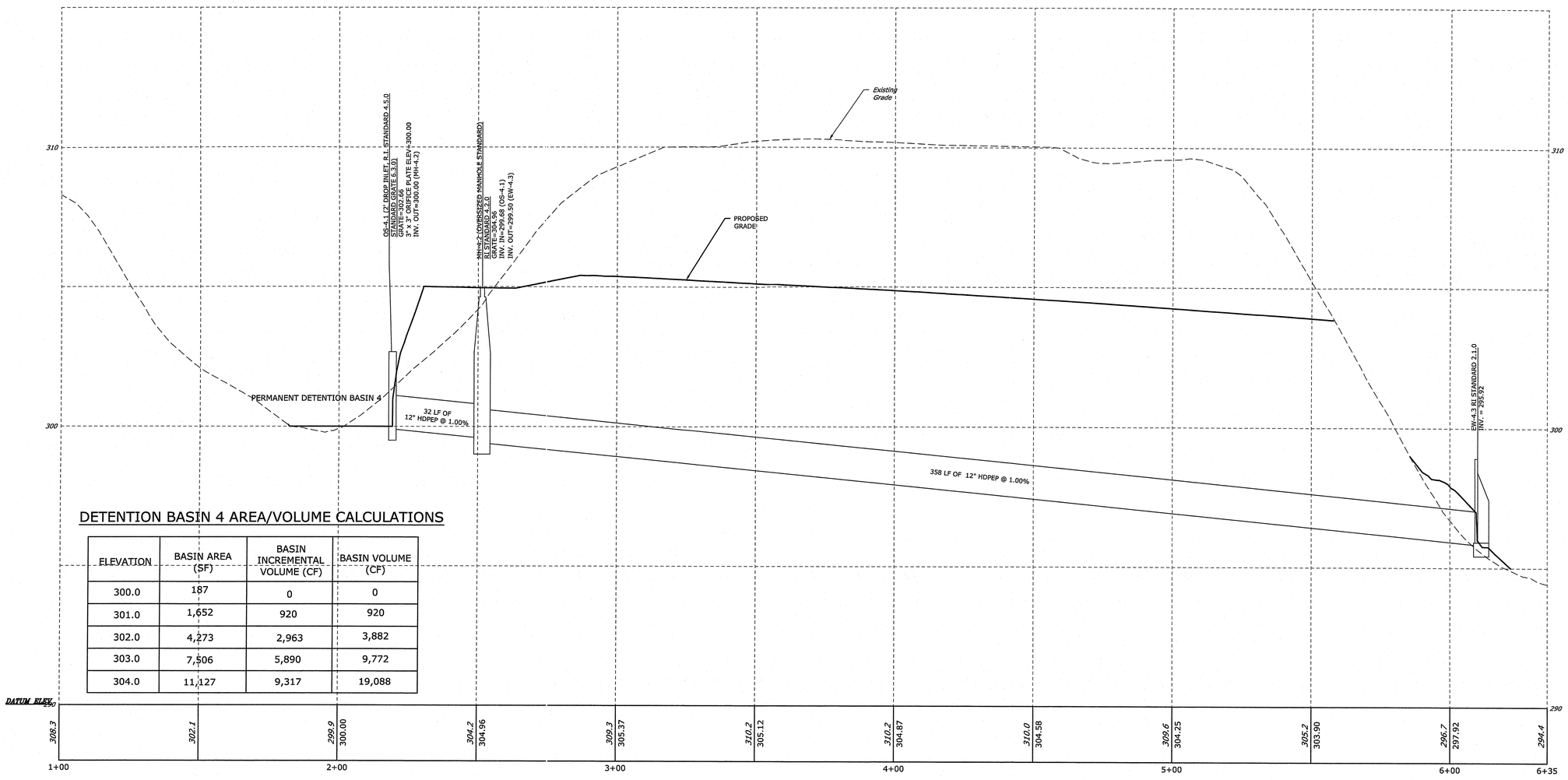
PLAN
SCALE: 1" = 20' H

GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'



OS-4.1 to EW-4.3 (BASIN 4)
HORZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'

DETENTION BASIN 4 AREA/VOLUME CALCULATIONS

ELEVATION	BASIN AREA (SF)	BASIN INCREMENTAL VOLUME (CF)	BASIN VOLUME (CF)
300.0	187	0	0
301.0	1,652	920	920
302.0	4,273	2,963	3,882
303.0	7,506	5,890	9,772
304.0	11,127	9,317	19,088

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

RHODE ISLAND WATER RESOURCES MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER DATED MAR 12 2020 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
BASIN 4 - PIPE RUN

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/14/20

SCALE:	1" = 20'
DATE:	06/05/2019
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5.10

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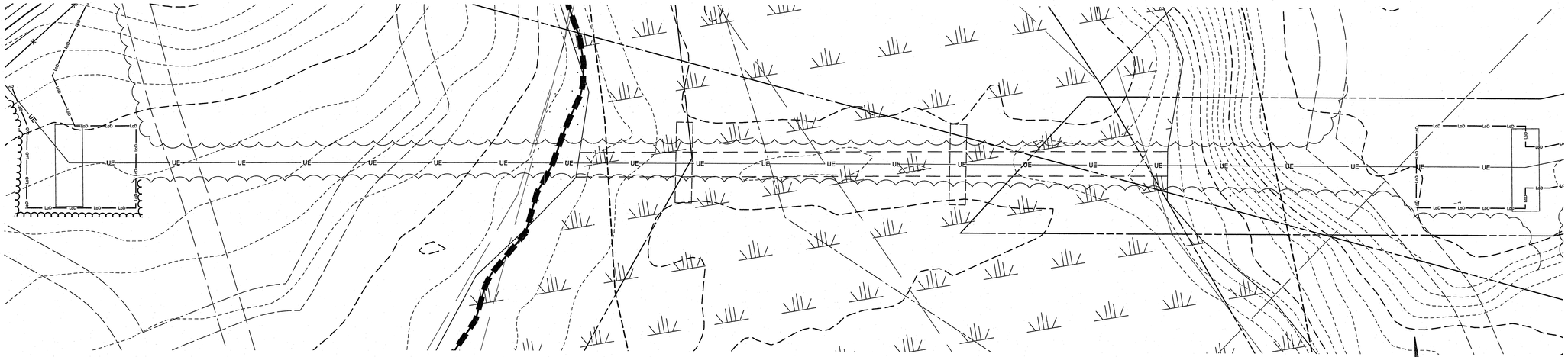
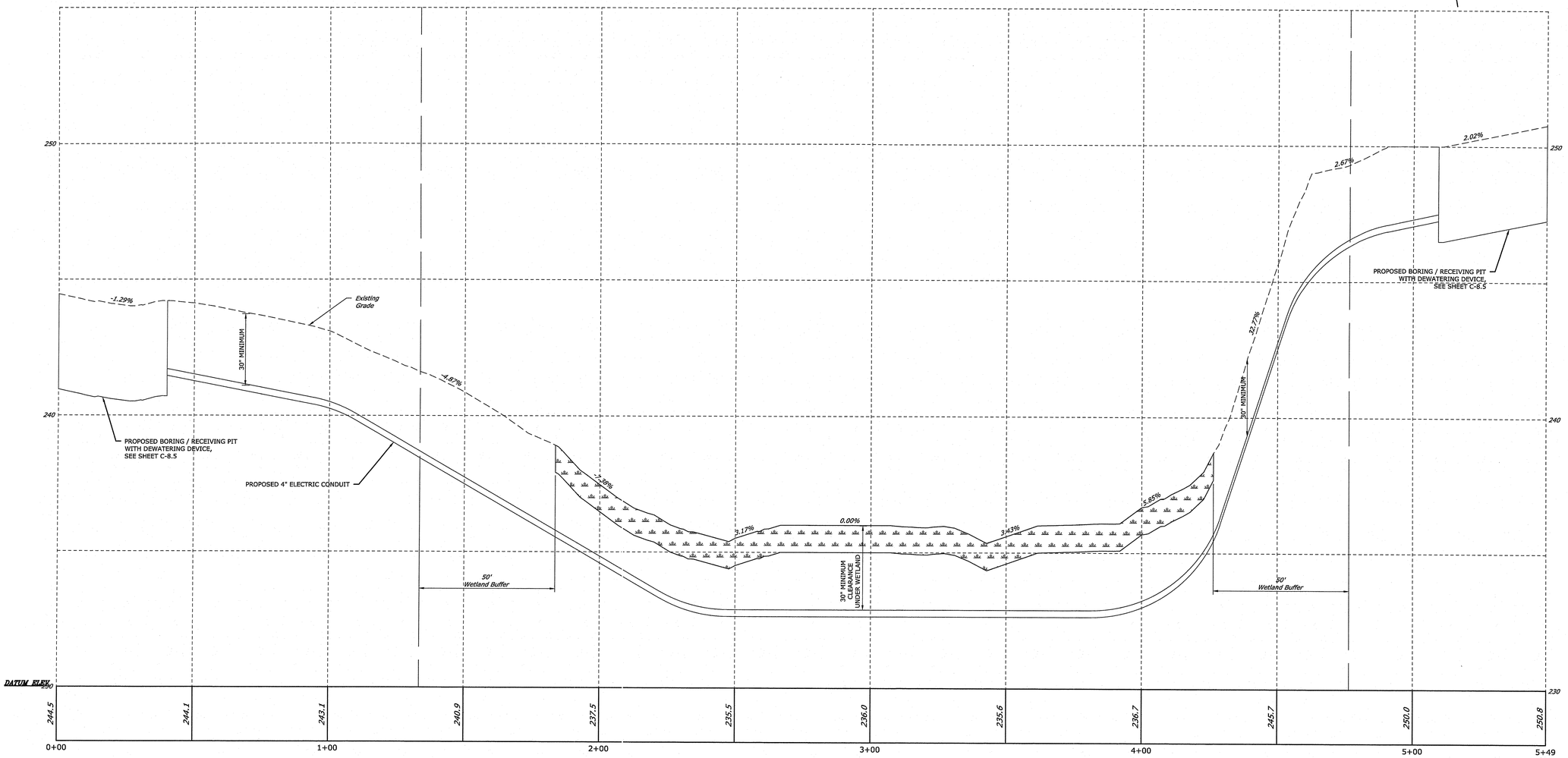


PLAN
SCALE: 1" = 20' H

GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'



UTILITY CROSSING
HORZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PERMIT
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 12 2020 FILE # 18034
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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Applicant
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SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
UTILITY CROSSING

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/14/20

SCALE:	1" = 20'
DATE:	06/05/2019
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5.11

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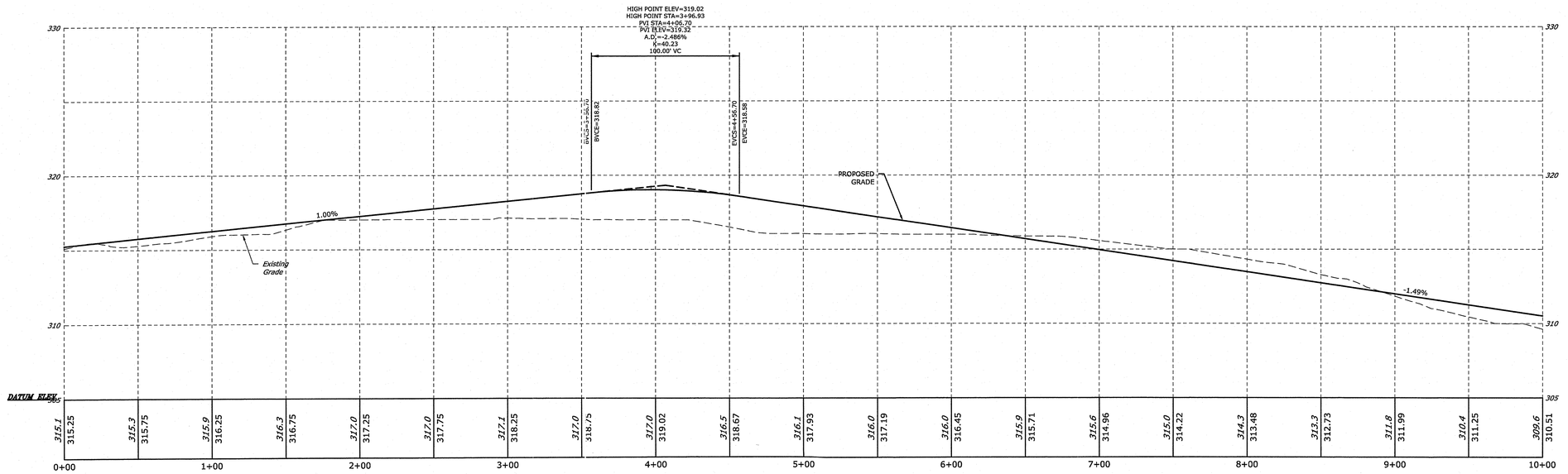
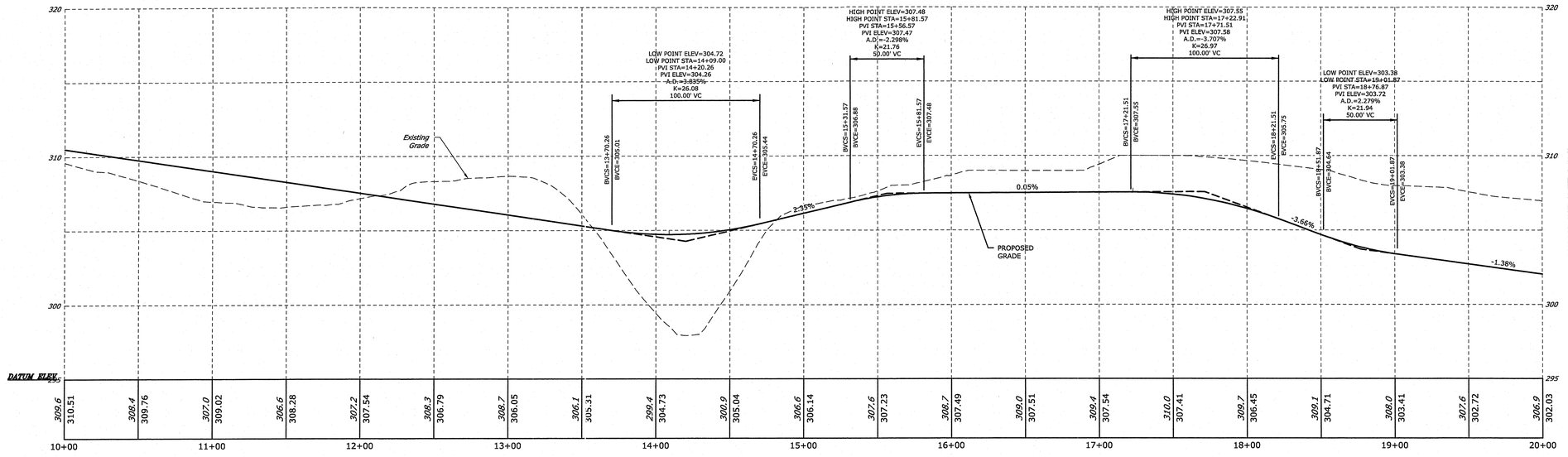


PROPOSED ACCESS DRIVE
STA. 0+00 -10+00
SCALE: 1"=40' H
1"=4' V

GRAPHIC SCALE
40' 20' 0 40'
SCALE IN FEET
1" = 40'



PROPOSED ACCESS DRIVE
STA. 10+00 -20+00
SCALE: 1"=40' H
1"=4' V

GRAPHIC SCALE
40' 20' 0 40'
SCALE IN FEET
1" = 40'

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
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JAN 16 2020

Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
ACCESS DRIVE PROFILE I

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/14/20

SCALE:	AS SHOWN
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000

DRAWING NO.:
C-6

STATE OF RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 1 2 2020 FW 8034
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

J:\Depcom Power\North Smithfield - Hwy\ACAD\Plot Sheets\GPC Final\C-6 Access Drive Profile.dwg 01-14-2020 8:54:07 PM ET Rae
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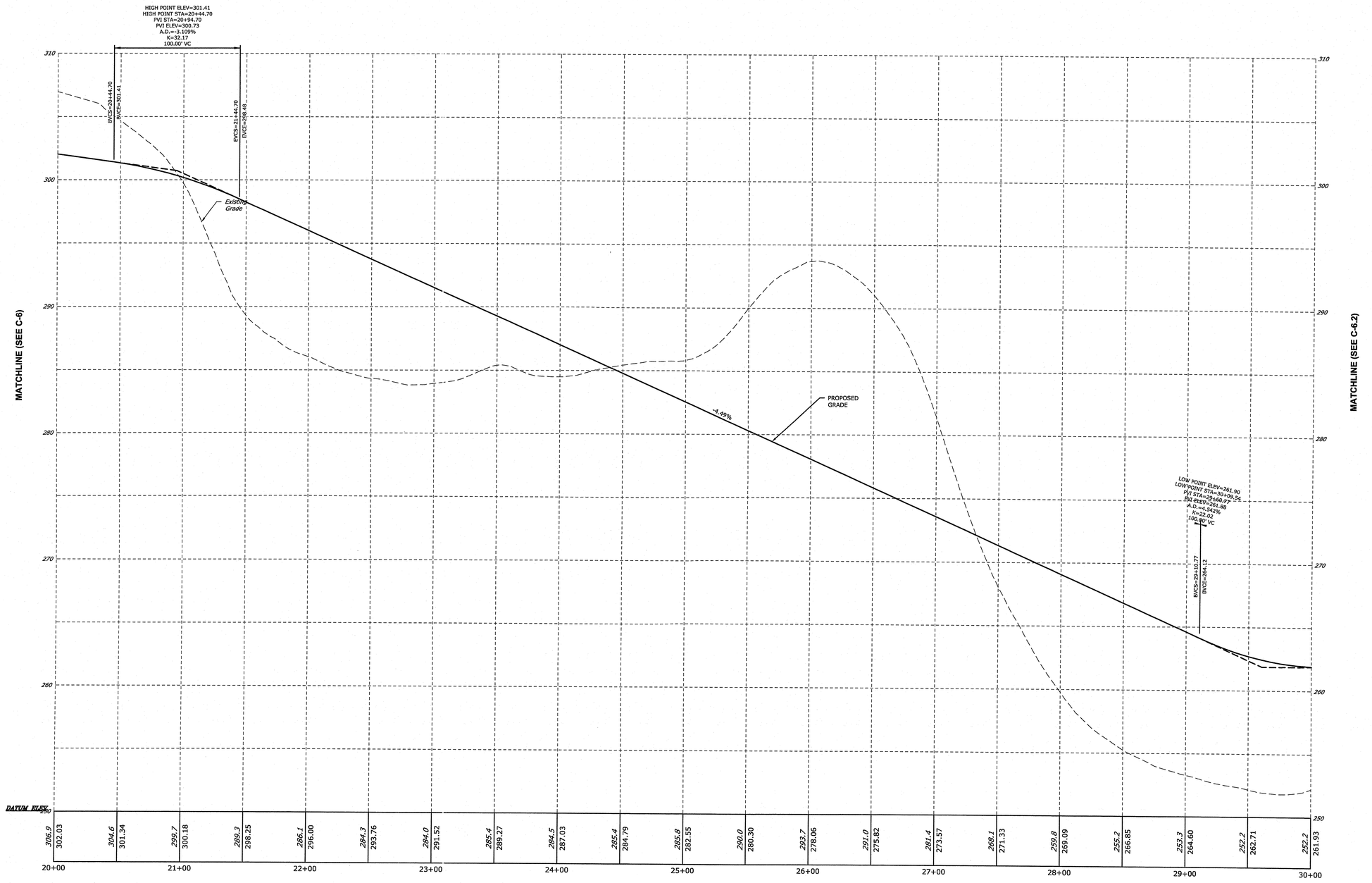

PROPOSED ACCESS DRIVE
STA. 20+00 -30+00
SCALE: 1"=40' H
1"=4' V

GRAPHIC SCALE
40' 20' 0 40'
SCALE IN FEET
1" = 40'

NO.	REVISION	DA
2	CONSTRUCTION REVISIONS	01/14
1	ISSUED FOR CONSTRUCTION	06/05

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

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NORTH SMITHFIELD, RI 02896

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MAR 1 2 2020
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JAN 15 2020

Applicant
DEPCOM POWER
9185 E PIMA CENTER PARKWAY, SUITE 10
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
ACCESS DRIVE PROFILE I

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/14/20

SCALE:	AS SHO
DATE:	06/05/2
DRAWN BY:	
CHECKED BY:	S
PROJECT:	338781.0
DRAWING NO.:	C-6.1

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Xrefs: ..\..\North\North Smithfield-01_xrTB.dwg ..\..\North\North Smithfield-05_xrGRADE.dwg
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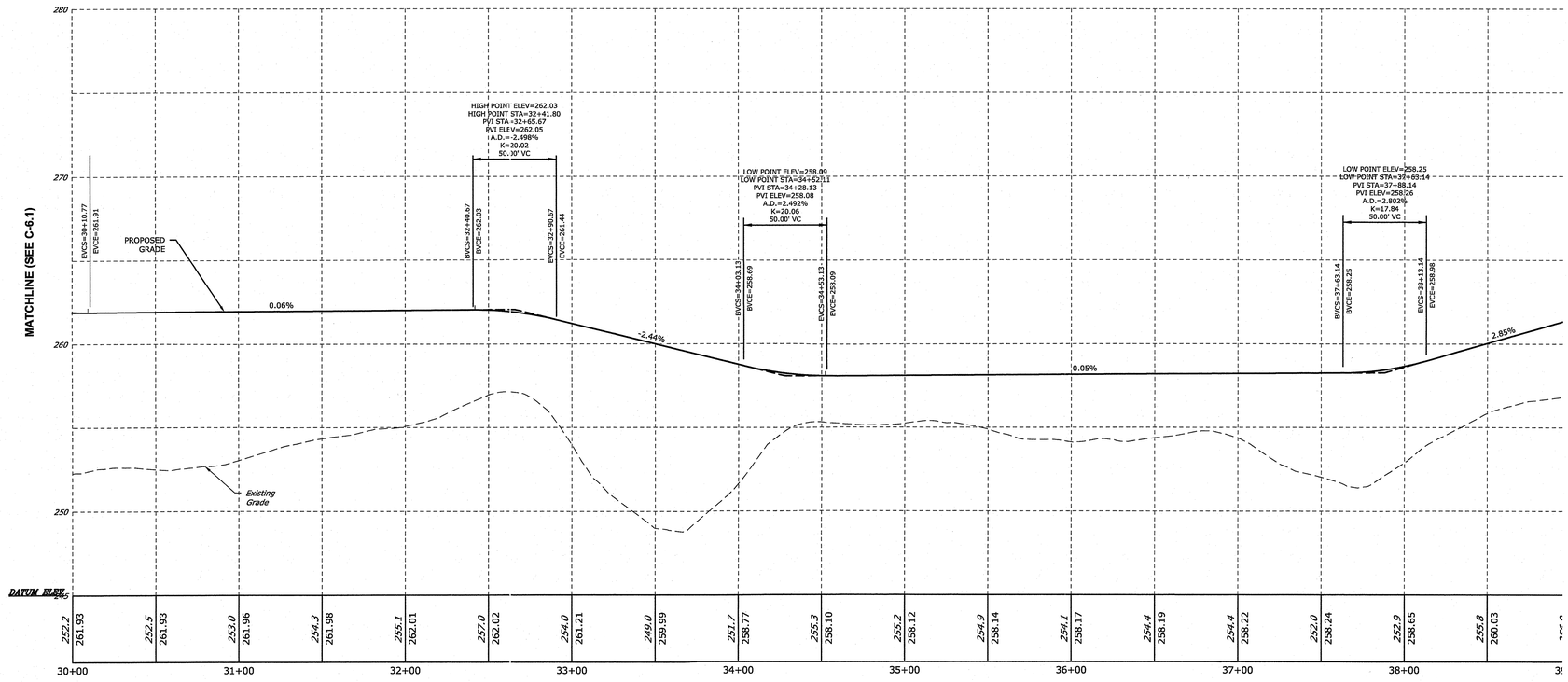

PROPOSED ACCESS DRIVE
STA. 30+00 - 38+00

SCALE: 1"=40' H
1"=4' V

GRAPHIC SCALE
40' 20' 0 40'
SCALE IN FEET
1" = 40'

RECEIVED
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
FRESHWATER WETLANDS PROGRAM
APPROVED
AS SPECIFIED IN PERMIT NO. 180314 WL
DATED MAR 1-2 2020 FILE #
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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JAN 19 2020

Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
ACCESS DRIVE PROFILE III

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	AS SHOWN
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000

DRAWING NO.:
C-6.2

01/14/20

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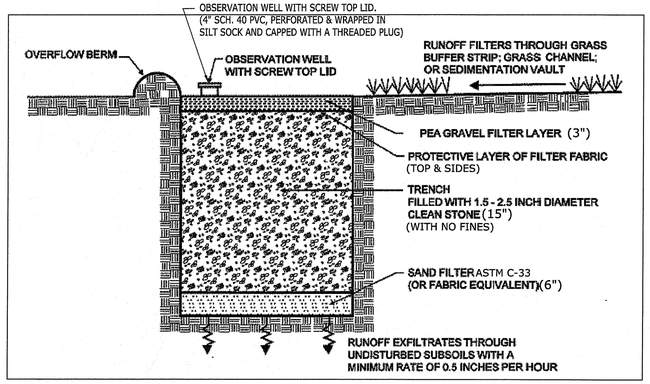


INFILTRATION TRENCH DETAIL
NOT TO SCALE

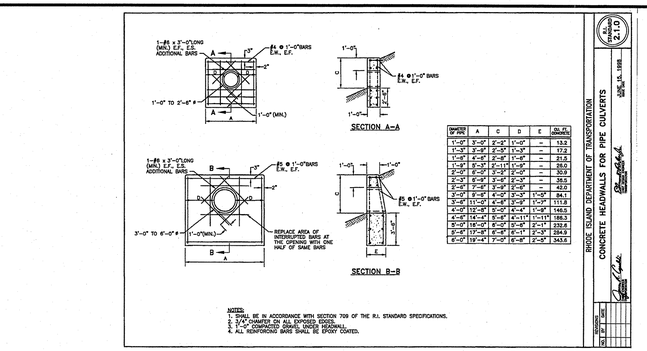
NOTES

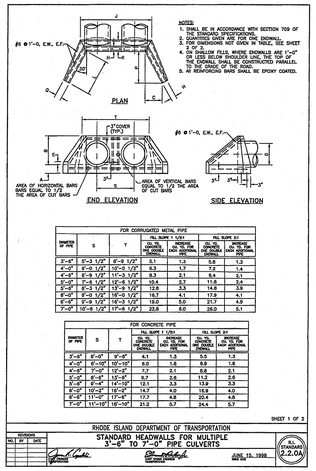
1. INFILTRATION TRENCH CONFORM TO ALL RHODE ISLAND REQUIREMENTS.
2. BOTTOM OF TRENCH MUST BE 2 FEET ABOVE SHGWT
3. FOR ADDITIONAL CONSTRUCTION GUIDANCE SEE SECTION 5.3 OF THE RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL.

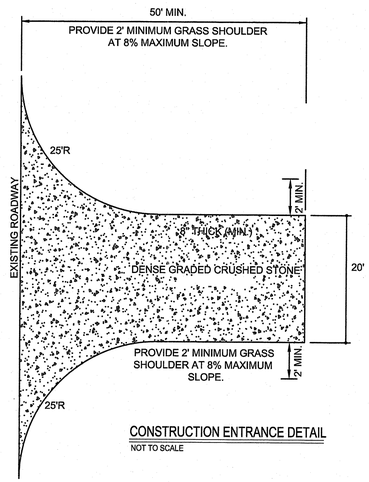
⚠2

INFILTRATION TRENCH DETAILS

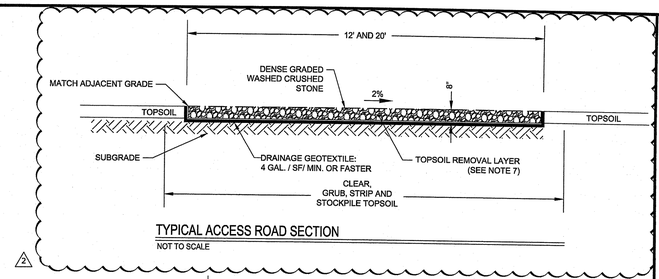
TRENCH #	EXISTING TOP ELEVATION	PROPOSED TOP ELEVATION	BOTTOM ELEV. CLEAN STONE	BOTTOM ELEV. SAND FILTER
#1	314.80	314.60	312.10	311.60
#2	315.90	314.65	312.15	311.65
#3	309.30	304.40	301.90	301.40
#4	305.00	282.50	280.00	279.50
#5	305.10	282.25	279.75	279.25
#6	292.00	282.70	280.20	279.70





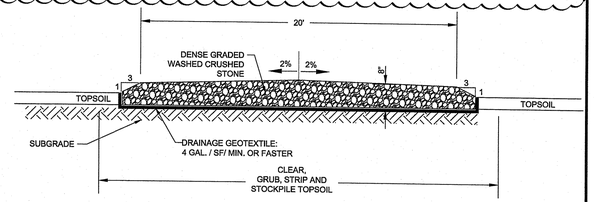


CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE



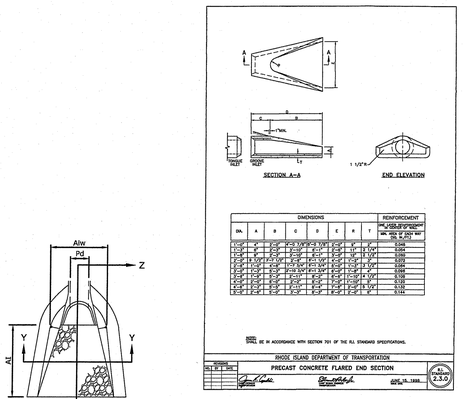
TYPICAL ACCESS ROAD SECTION
NOT TO SCALE

⚠2



TYPICAL ACCESS ROAD SECTION - STA 21+50 - 29+00
NOT TO SCALE

CONSTRUCTION NOTES:
1. SUBGRADE SHALL BE COMPACTED TO 90% OF ASTM D1557.
2. SUBGRADE SHALL BE PROOF ROLLED PRIOR TO THE PLACEMENT OF CRUSHED STONE.
3. GEOTEXTILE SHALL BE MIRAFI 500X OR APPROVED EQUAL.
4. DENSE GRADED CRUSHED STONE SHALL BE M2.01.7. AGGREGATE SHALL DURABLE CRUSHED ROCK CONSISTING OF THE ANGULAR FRAGMENTS OBTAINED BY BREAKING AND CRUSHING SOLID OR SHATTERED NATURAL ROCK, AND FREE FROM A DETRIMENTAL QUANTITY OF THIN, FLAT, ELONGATED, OR OTHER OBJECTIONABLE PIECES. CRUSHED ROCK SHALL BE FREE OF FINES (WASHED)
5. GEOTEXTILE: SEPARATES AND PREVENTS SETTLING BETWEEN SUBGRADE AND GRAVEL SUBBASE.
6. EXISTING SOILS REMOVED FOR ACCESS ROAD CONSTRUCTION WILL BE UTILIZED AS PART OF THE PROJECT GRADING.
7. ALL REMOVED TOPSOIL ASSOCIATED WITH ROAD CONSTRUCTION SHALL BE PRESERVED AND REUSED TO PROVIDE A 4" TO 6" THICK LOAM COVER LAYER ON THE SUBJECT PROJECT SITE, PLANTED WITH DESIRED GRASS COVER.
8. SHGT SEPARATION DISTANCE BENEATH PROPOSED ACCESS DRIVE - THE SEPARATION DISTANCE BETWEEN THE SEASONAL HIGH GROUNDWATER TABLE AND THE TYPICAL ACCESS ROAD SECTION IS IN ACCORDANCE WITH DETAILS PROVIDED IN THESE PLANS AND THE "MANAGEMENT DESIGN AND INSTALLATION RULES", 250-RICR-150-10-8.
9. FOLLOWING THE COMPLETION OF CONSTRUCTION, THE EXPECTED USAGE OF THE ACCESS DRIVE IS APPROXIMATELY TWO (2) VEHICLES PER MONTH.

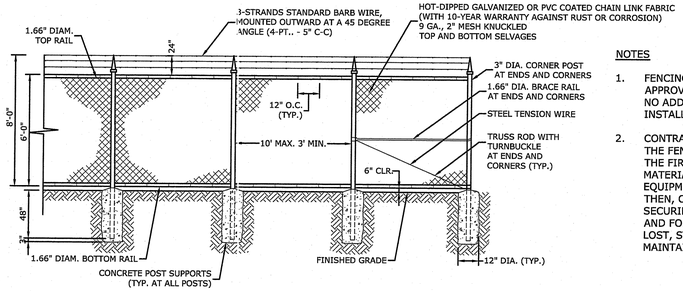


OUTLET NO.	PIPE DIA Pd (IN)	RIPRAP SIZE R-_	RIPRAP THICK. Rt (IN)	APRON LENGTH At (FT)	APRON INITIAL WIDTH Aiw (FT)	APRON TERMINAL WIDTH Atw (FT)
BASIN 1	12	d50 6"	12	20	3	20
BASIN 2	12	d50 6"	12	20	3	20
BASIN 3	6	d50 6"	12	14	1.5	14
EW-4.3	12	d50 6"	12	18	3	18

NOTES:

THE ROCK SIZE, APRON LENGTH AND TERMINAL WIDTH ARE ALL BEYOND THE MINIMAL REQUIREMENTS, AS AS TO FURTHER PREVENT ANY EROSION FROM OCCURRING DOWNSLOPE OF THE APRON. AND ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. APRONS SHALL BE CONSTRUCTED TO RHODE ISLAND STATE REGULATIONS.

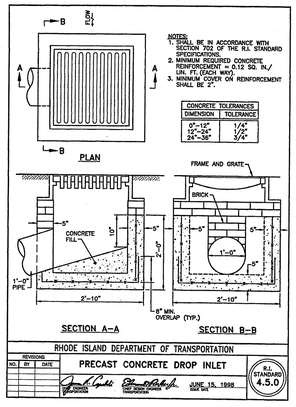
RIP-RAP APRON DETAIL
NOT TO SCALE



CHAIN LINK FENCE DETAIL
NOT TO SCALE

NOTES

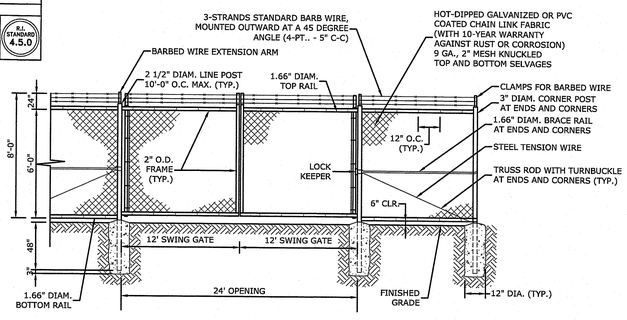
1. FENCING SHALL BE INSTALLED WITHIN THE LIMITS OF APPROVED CLEARING AND CONTRACTOR SHALL PERFORM NO ADDITIONAL CLEARING TO ACCOMMODATE FENCE INSTALLATION.
2. CONTRACTOR SHALL COMPLETE THE INSTALLATION OF THE FENCE AND GATE (WITH LOCKS) NOT LATER THAN THE FIRST ARRIVAL OF ANY EQUIPMENT AND/OR MATERIALS AT THE SITE TO ENSURE SITE AND EQUIPMENT SECURITY. IF FENCE IS NOT INSTALLED THEN, CONTRACTOR HAS THE SOLE RESPONSIBILITY OF SECURING EQUIPMENT AND MATERIALS BY OTHER MEANS AND FOR REPLACING ANY EQUIPMENT AND MATERIALS IF LOST, STOLEN OR DAMAGED. CONTRACTOR SHALL MAINTAIN FENCE UNTIL SUBSTANTIAL COMPLETION.



NOTES

1. SIGNS SHALL CONFORM TO THE 2013 OSHA AND ANSI REQUIREMENTS.
2. SIGNS SHALL BE 20" WIDE BY 14" HIGH.
3. SIGNS SHALL HAVE A MOUNTING HEIGHT OF BETWEEN 45 TO 66 INCHES.
4. SIGN PANELS SHALL BE 10 GAUGE ALUMINUM WITH HIGH VISIBILITY REFLECTIVE SHEETING.

DANGER SIGNS
NOT TO SCALE



24' VEHICULAR GATE DETAIL
NOT TO SCALE

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2
1	ISSUED FOR CONSTRUCTION	06/05/2
NO.	REVISION	DATE

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
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SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
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JAN 13 2020

Applicant

DEPCOM POWER
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

CONSTRUCTION DETAILS

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/14/20

SCALE:	AS SHOW
DATE:	06/05/201
DRAWN BY:	RC
CHECKED BY:	SM
PROJECT:	338781.000
DRAWING NO.:	C-7

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS SECTION
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 12 2020 FILE 18-03-1
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION

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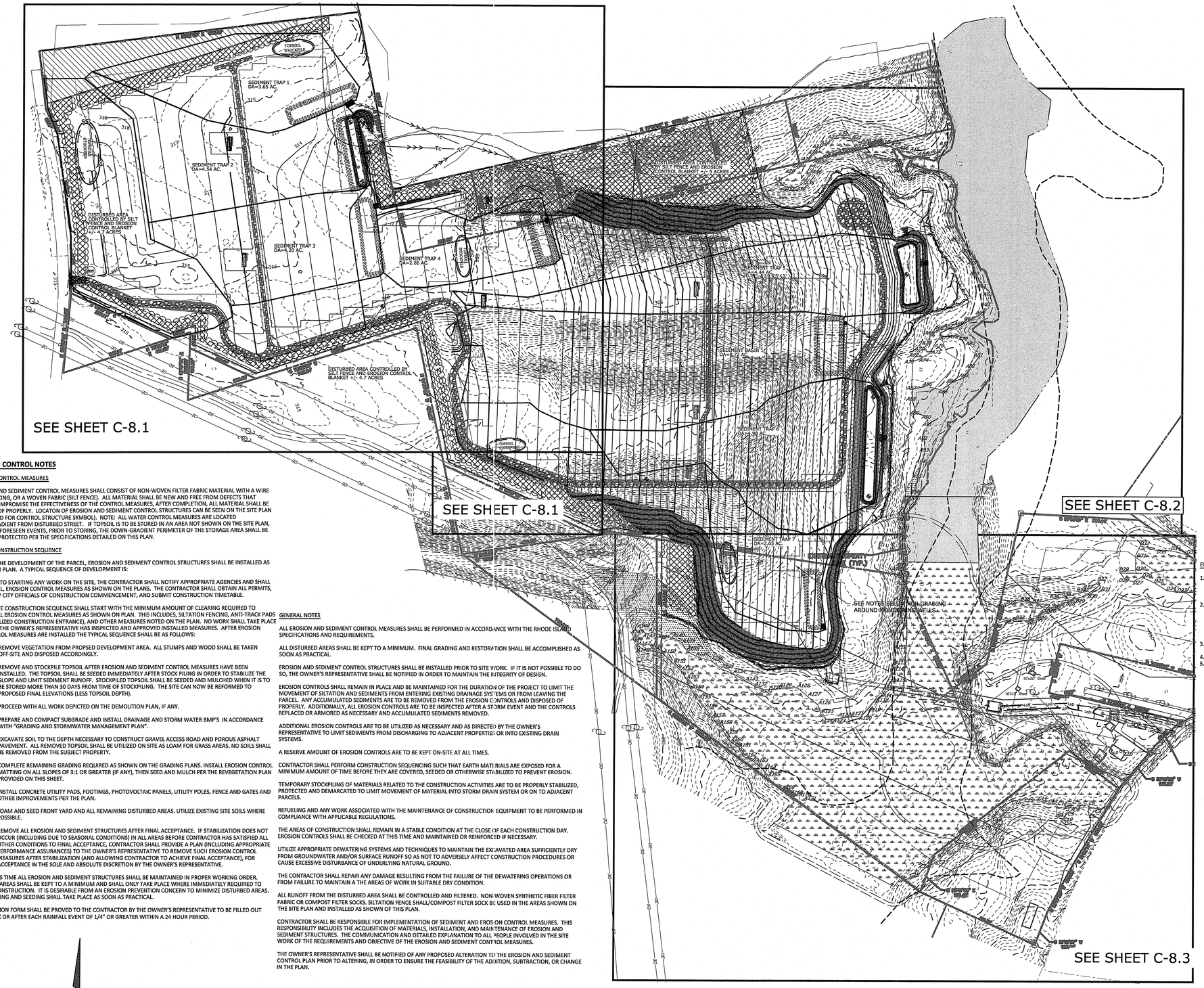

SOILS INFORMATION

AfA,
0 TO 3 PERCENT SLOPES
AWAGWAM FINE SANDY LOAM

CdB,
3 TO 8 PERCENT SLOPES
CANTON AND CHARLTON FINE SANDY LOAMS

CeC,
3 TO 15 PERCENT SLOPES
CANTON AND CHARLTON FINE SANDY LOAMS

CnD,
15 TO 25 PERCENT SLOPES
CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS

Du,
DUMPS

FeA,
0 TO 1 PERCENT SLOPES
FREETOWN MUCK

HkA,
0 TO 3 PERCENT SLOPES
HINCKLEY LOAMY SAND

HkC,
8 TO 15 PERCENT SLOPES
HINCKLEY LOAMY SAND

HkD,
15 TO 25 PERCENT SLOPES
HINCKLEY LOAMY SAND

MmB,
3 TO 8 PERCENT SLOPES
MERRICMAC FINE

MU,
0 TO 8 PERCENT SLOPES
MERRIMAC-URBAN LAND COMPLEX

Pg,
PITS, GRAVEL

Rf,
0 TO 8 PERCENT SLOPES
RIDGEBURY, LEICESTER AND WHITMAN SOILS, EXTREMELY STONEY

Sb,
0 TO 3 PERCENT SLOPES
SCARBORO MUCKY FINE SANDY LOAM

Sk,
SUDBURY SANDY LOAM

StB,
3 TO 8 PERCENT SLOPES
SUTTON FINE SANDY LOAM

SwA,
0 TO 1 PERCENT SLOPES
SWANSEA MUCK

W,
WATER

WeA,
0 TO 3 PERCENT SLOPES
WALPOLE SANDY LOAM

WgA,
0 TO 3 PERCENT SLOPES
WINDSOR LOAMY SAND

WgB,
3 TO 8 PERCENT SLOPES
WINDSOR LOAMY SAND

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED E&S CONTROL PLAN FEATURES

- STABILIZED ROCK CONSTRUCTION ENTRANCE
- SOIL MATERIAL STOCKPILE
- SF SF STANDARD SILT FENCE (18" HIGH)
- SS SS SILT SOCKS
- RIPRAP
- EROSION CONTROL MATTING
- LoD LoD LoD LoD LIMIT OF DISTURBANCE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED ON PERMIT
DATED MAR 12 2020 FILE # 1803/4
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Cynthia R. Howard

EROSION CONTROL NOTES

EROSION CONTROL MEASURES

EROSION AND SEDIMENT CONTROL MEASURES SHALL CONSIST OF NON-WOVEN FILTER FABRIC MATERIAL WITH A WIRE MESH BACKING, OR A WOVEN FABRIC (SILT FENCE). ALL MATERIAL SHALL BE NEW AND FREE FROM DEFECTS THAT WOULD COMPROMISE THE EFFECTIVENESS OF THE CONTROL MEASURES, AFTER COMPLETION, ALL MATERIAL SHALL BE DISPOSED OF PROPERLY. LOCATON OF EROSION AND SEDIMENT CONTROL STRUCTURES CAN BE SEEN ON THE SITE PLAN (SEE LEGEND FOR CONTROL STRUCTURE SYMBOL). NOTE: ALL WATER CONTROL MEASURES ARE LOCATED DOWN-GRADIENT FROM DISTURBED STREET. IF TOPSOIL IS TO BE STORED IN AN AREA NOT SHOWN ON THE SITE PLAN, DUE TO UNFORESEEN EVENTS, PRIOR TO STORING, THE DOWN-GRADIENT PERIMETER OF THE STORAGE AREA SHALL BE PROPERLY PROTECTED PER THE SPECIFICATIONS DETAILED ON THIS PLAN.

TYPICAL CONSTRUCTION SEQUENCE

PRIOR TO THE DEVELOPMENT OF THE PARCEL, EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSTALLED AS SHOWN ON PLAN. A TYPICAL SEQUENCE OF DEVELOPMENT IS:

1. PRIOR TO STARTING ANY WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL, EROSION CONTROL MEASURES AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL OBTAIN ALL PERMITS, NOTIFY CITY OFFICIALS OF CONSTRUCTION COMMENCEMENT, AND SUBMIT CONSTRUCTION TIMETABLE.
2. ON-SITE CONSTRUCTION SEQUENCE SHALL START WITH THE MINIMUM AMOUNT OF CLEARING REQUIRED TO INSTALL EROSION CONTROL MEASURES AS SHOWN ON PLAN. THIS INCLUDES, SILTATION FENCING, ANTI-TRACK PADS (STABILIZED CONSTRUCTION ENTRANCE), AND OTHER MEASURES NOTED ON THE PLAN. NO WORK SHALL TAKE PLACE UNTIL THE OWNER'S REPRESENTATIVE HAS INSPECTED AND APPROVED INSTALLED MEASURES. AFTER EROSION CONTROL MEASURES ARE INSTALLED THE TYPICAL SEQUENCE SHALL BE AS FOLLOWS:
   a. REMOVE VEGETATION FROM PROPSED DEVELOPMENT AREA. ALL STUMPS AND WOOD SHALL BE TAKEN OFF-SITE AND DISPOSED ACCORDINGLY.
   b. REMOVE AND STOCKPILE TOPSOIL AFTER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED. THE TOPSOIL SHALL BE SEEDED IMMEDIATELY AFTER STOCK PILING IN ORDER TO STABILIZE THE SLOPE AND LIMIT SEDIMENT RUNOFF. STOCKPILED TOPSOIL SHALL BE SEEDED AND MULCHED WHEN IT IS TO BE STORED MORE THAN 30 DAYS FROM TIME OF STOCKPLING. THE SITE CAN NOW BE REFORMED TO PROPOSED FINAL ELEVATIONS (LESS TOPSOIL DEPTH).
   c. PROCEED WITH ALL WORK DEPICTED ON THE DEMOLITION PLAN, IF ANY.
   d. PREPARE AND COMPACT SUBGRADE AND INSTALL DRAINAGE AND STORM WATER BMP'S IN ACCORDANCE WITH "GRADING AND STORMWATER MANAGEMENT PLAN".
   e. EXCAVATE SOIL TO THE DEPTH NECESSARY TO CONSTRUCT GRAVEL ACCESS ROAD AND POROUS ASPHALT PAVEMENT. ALL REMOVED TOPSOIL SHALL BE UTILIZED ON SITE AS LOAM FOR GRASS AREAS. NO SOILS SHALL BE REMOVED FROM THE SUBJECT PROPERTY.
   h. COMPLETE REMAINING GRADING REQUIRED AS SHOWN ON THE GRADING PLANS. INSTALL EROSION CONTROL MATTING ON ALL SLOPES OF 3:1 OR GREATER (IF ANY), THEN SEED AND MULCH PER THE REVEGETATION PLAN PROVIDED ON THIS SHEET.
   i. INSTALL CONCRETE UTILITY PADS, FOOTINGS, PHOTOVOLTAIC PANELS, UTILITY POLES, FENCE AND GATES AND OTHER IMPROVEMENTS PER THE PLAN.
   j. LOAM AND SEED FRONT YARD AND ALL REMAINING DISTURBED AREAS. UTILIZE EXISTING SITE SOILS WHERE POSSIBLE.
   k. REMOVE ALL EROSION AND SEDIMENT STRUCTURES AFTER FINAL ACCEPTANCE. IF STABILIZATION DOES NOT OCCUR (INCLUDING DUE TO SEASONAL CONDITIONS) IN ALL AREAS BEFORE CONTRACTOR HAS SATISFIED ALL OTHER CONDITIONS TO FINAL ACCEPTANCE, CONTRACTOR SHALL PROVIDE A PLAN (INCLUDING APPROPRIATE PERFORMANCE ASSURANCES) TO THE OWNER'S REPRESENTATIVE TO REMOVE SUCH EROSION CONTROL MEASURES AFTER STABILIZATION (AND ALLOWING CONTRACTOR TO ACHIEVE FINAL ACCEPTANCE), FOR ACCEPTANCE IN THE SOLE AND ABSOLUTE DISCRETION BY THE OWNER'S REPRESENTATIVE.

DURING THIS TIME ALL EROSION AND SEDIMENT STRUCTURES SHALL BE MAINTAINED IN PROPER WORKING ORDER. DISTURBED AREAS SHALL BE KEPT TO A MINIMUM AND SHALL ONLY TAKE PLACE WHERE IMMEDIATELY REQUIRED TO FURTHER CONSTRUCTION. IT IS DESIRABLE FROM AN EROSION PREVENTION CONCERN TO MINIMIZE DISTURBED AREAS. FINAL GRADING AND SEEDING SHALL TAKE PLACE AS SOON AS PRACTICAL.

AN INSPECTION FORM SHALL BE PROVED TO THE CONTRACTOR BY THE OWNER'S REPRESENTATIVE TO BE FILLED OUT EVERY WEEK OR AFTER EACH RAINFALL EVENT OF 1/4" OR GREATER WITHIN A 24 HOUR PERIOD.

GENERAL NOTES

ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PERFORMED IN ACCORDANCE WITH THE RHODE ISLAND SPECIFICATIONS AND REQUIREMENTS.

ALL DISTURBED AREAS SHALL BE KEPT TO A MINIMUM. FINAL GRADING AND RESTORATION SHALL BE ACCOMPLISHED AS SOON AS PRACTICAL.

EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO SITE WORK. IF IT IS NOT POSSIBLE TO DO SO, THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IN ORDER TO MAINTAIN THE INTEGRITY OF DESIGN.

EROSION CONTROLS SHALL REMAIN IN PLACE AND BE MAINTAINED FOR THE DURATION OF THE PROJECT TO LIMIT THE MOVEMENT OF SILTATION AND SEDIMENTS FROM ENTERING EXISTING DRAINAGE SYSTEMS OR FROM LEAVING THE PARCEL. ANY ACCUMULATED SEDIMENTS ARE TO BE REMOVED FROM THE EROSION CONTROLS AND DISPOSED OF PROPERLY. ADDITIONALLY, ALL EROSION CONTROLS ARE TO BE INSPECTED AFTER A STORM EVENT AND THE CONTROLS REPLACED OR ARMORED AS NECESSARY AND ACCUMULATED SEDIMENTS REMOVED.

ADDITIONAL EROSION CONTROLS ARE TO BE UTILIZED AS NECESSARY AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE TO LIMIT SEDIMENTS FROM DISCHARGING TO ADJACENT PROPERTIES OR INTO EXISTING DRAIN SYSTEMS.

A RESERVE AMOUNT OF EROSION CONTROLS ARE TO BE KEPT ON-SITE AT ALL TIMES.

CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM AMOUNT OF TIME BEFORE THEY ARE COVERED, SEEDED OR OTHERWISE STABILIZED TO PREVENT EROSION.

TEMPORARY STOCKPILING OF MATERIALS RELATED TO THE CONSTRUCTION ACTIVITIES ARE TO BE PROPERLY STABILIZED, PROTECTED AND DEMARCATED TO LIMIT MOVEMENT OF MATERIAL INTO STORM DRAIN SYSTEM OR ON TO ADJACENT PARCELS.

REFUELING AND ANY WORK ASSOCIATED WITH THE MAINTENANCE OF CONSTRUCTION EQUIPMENT TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE REGULATIONS.

THE AREAS OF CONSTRUCTION SHALL REMAIN IN A STABLE CONDITION AT THE CLOSE OF EACH CONSTRUCTION DAY. EROSION CONTROLS SHALL BE CHECKED AT THIS TIME AND MAINTAINED OR REINFORCED IF NECESSARY.

UTILIZE APPROPRIATE DEWATERING SYSTEMS AND TECHNIQUES TO MAINTAIN THE EXCAVATED AREA SUFFICIENTLY DRY FROM GROUNDWATER AND/OR SURFACE RUNOFF SO AS NOT TO ADVERSELY AFFECT CONSTRUCTION PROCEDURES OR CAUSE EXCESSIVE DISTURBANCE OF UNDERLYING NATURAL GROUND.

THE CONTRACTOR SHALL REPAIR ANY DAMAGE RESULTING FROM THE FAILURE OF THE DEWATERING OPERATIONS OR FROM FAILURE TO MAINTAIN A THE AREAS OF WORK IN SUITABLE DRY CONDITION.

ALL RUNOFF FROM THE DISTURBED AREA SHALL BE CONTROLLED AND FILTERED. NON WOVEN SYNTHETIC FIBER FILTER FABRIC OR COMPOST FILTER SOCKS. SILTATION FENCE SHALL/COMPOST FILTER SOCK BE USED IN THE AREAS SHOWN ON THE SITE PLAN AND INSTALLED AS SHOWN OF THIS PLAN.

CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF SEDIMENT AND EROSION CONTROL MEASURES. THIS RESPONSIBILITY INCLUDES THE ACQUISITION OF MATERIALS, INSTALLATION, AND MAINTENANCE OF EROSION AND SEDIMENT STRUCTURES. THE COMMUNICATION AND DETAILED EXPLANATION TO ALL PEOPLE INVOLVED IN THE SITE WORK OF THE REQUIREMENTS AND OBJECTIVE OF THE EROSION AND SEDIMENT CONTROL MEASURES.

THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED OF ANY PROPOSED ALTERATION TO THE EROSION AND SEDIMENT CONTROL PLAN PRIOR TO ALTERING, IN ORDER TO ENSURE THE FEASIBILITY OF THE ADDITION, SUBTRACTION, OR CHANGE IN THE PLAN.

EROSION CONTROL CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL UTILIZE COMPOST FILTER SOCK AND/OR EROSION CONTROL BLANKETS TO MINIMIZE POTENTIAL EROSION DURING CONSTRUCTION AND STABILIZATION OF ALL FILL SLOPES (SEE DETAILS AND GUIDANCE ON SHEET C-8.4 & C8.5)
2. MAXIMUM PROPOSED SLOPES WITHIN ARRAY AREAS IS LESS THAN 5%, AS SUCH COMPOST FILTER SOCK SHALL BE PLACED AT APPROPRIATE INTERVALS DURING CONSTRUCTION AND EARTH MOVING ACTIVITIES. CONTRACTOR SHALL UTILIZE THE DESIGN CHART AND NOTES PROVIDED ON DETAIL SHEET C-8.4 FOR REQUIRED SOCK SIZE AND SEPARATION DISTANCE TO ENSURE PROPER EROSION & SEDIMENT CONTROL.
3. CONTRACTOR SHALL CONSULT STABILIZATION AND FILL NOTES & DETAILS ON SHEET C-8.4
4. NO FERTILIZER IS TO BE USED FOR SEEDING.
5. ALL SLOPES GREATER THAT 20% SHALL BE STABILIZED WITH SLOPE BLANKET AND COMPOST FILTER SOCK INSTALLED AT TOE OF SLOPE. CONTRACTOR SHALL UTILIZED DETAILS AND DESIGN PARAMETERS AS SHOWN ON SHEET C-8.4.

GRAPHIC SCALE
150' 75' 0 150'
SCALE IN FEET
1" = 150'

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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Lowell, MA 01854
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www.TRCcompanies.com
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JAN 16 2020

Applicant
DEPCOM POWER
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
OVERALL EROSION & SEDIMENTATION CONTROL PLAN

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/14/20

SCALE:	1" = 150'
DATE:	06/05/2019
DRAWN BY:	TKM
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-8

XRefs: ...\Work\North Smithfield\4 - wTB.dwg, ...\Work\North Smithfield\4 - wSITE.dwg, ...\Work\North Smithfield\3 - wEXP.dwg, ...\Work\North Smithfield\7 - wES.dwg, J:\Depcom Power\North Smithfield - Klog\CAD\Work\North Smithfield\3 - wGRADE.dwg
Images: P:_TRC Imagery-Mapping\Logos\Client Logos\DP_LOGO90.png, ..\Images\TurningPoint Energy3.jpg, ATTPE Rhode Island Solar Holdings\North Smithfield - Klog\SOURCE FILES\Rena firm maps\4000TOP100.png

N 83°01'56" E 998.87'

TOPSOIL STOCKPILE

SEDIMENT TRAP 1
DA=3.65 AC.

RIP RAP FILTER ROCK

OVERFLOW WEIR 312.0 LOCATION, SEE SEDIMENT TRAP DETAIL

TEMP SEDIMENT TRAP#1 SEE DETAIL

SEDIMENT TRAP #2
(WILL BE CONVERTED TO PERMANENT BASIN AFTER THE UPSLOPE AREA IS STABILIZED - REFER TO CONVERSION SEQUENCE ON C-8.5)

D50 6" TO BE PLACED BASIN SIDE SLOPE. MIN THICKNESS 14"

SEDIMENT TRAP FLOW PATH

S 11°29'44" E 257.91'

SEDIMENT TRAP 2
DA=4.54 AC.

OVERFLOW WEIR ELEVATION, 310 SEE SEDIMENT TRAP DETAIL

TEMP SEDIMENT TRAP#2 SEE DETAIL

COMPOST FIL... SHALL REFER... (C-8.4) FOR ...

SEDIM...

RIP RAP FILTER ROCK

OVERFLOW WEIR 312.00 LOCATION, SEE SEDIMENT TRAP DETAIL

OVERFLOW WEIR 302.00 SEE SEDIMENT TRAP DETAIL

TEMP SEDIMENT TRAP#3 SEE DETAIL

SEDIMENT TRAP 3
DA=4.20 AC.

SEDIMENT TRAP 4
DA=2.66 AC.

TOPSOIL STOCKPILE

DISTURBED AREA CONTROLLED BY SILT FENCE AND EROSION CONTROL BLANKET
+/- 4.7 ACRES

FORMERLY: OLD OXFORD RD
CURRENTLY: PRIVATE RD - QUIET TITLE C.A. NO.PC06-1502

CONCRETE WASHOUT

CONCRETE WASHOUT

ROCK CONSTRUCTION ENTRANCE

S 65°27'14" E 337.11'

244.98'

86.58'

48.16'

72°32'51" 112.69'

MATCHLINE (THIS SHEET)

S 72°32'53" W 743.34'

228.07'

522.51'

DISTURBED AREA CONTROLLED BY SILT FENCE AND EROSION CONTROL BLANKET +/- 4.7 ACRES

N 17°34'55" W 432.85'

MATCHLINE (SEE SHEET C-8.2)

PROPOSED EROSION CONTROL BLANKET

N 65°27'14" W 519.83'

N 11°34'55" W 289.98'

EXISTING GAS LINE

MATCHLINE (SEE SHEET C-8.2)

MATCHLINE (THIS SHEET)

GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED E&S CONTROL PLAN FEATURES

- STABILIZED ROCK CONSTRUCTION ENTRANCE
- SOIL MATERIAL STOCKPILE
- SF SF STANDARD SILT FENCE (18" HIGH)
- SS SS SILT SOCKS
- RIPRAP
- EROSION CONTROL MATTING
- LoD LoD LoD LoD LIMIT OF DISTURBANCE

MAR 12 2020 — 180/19 — APPROVAL

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
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NORTH SMITHFIELD, RI 02896

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650 Suffolk Street
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JAN 16 2020

Applicant
DEPCOM POWER
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
EROSION & SEDIMENTATION CONTROL PLAN - WEST

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 60'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-8.1

01/14/20

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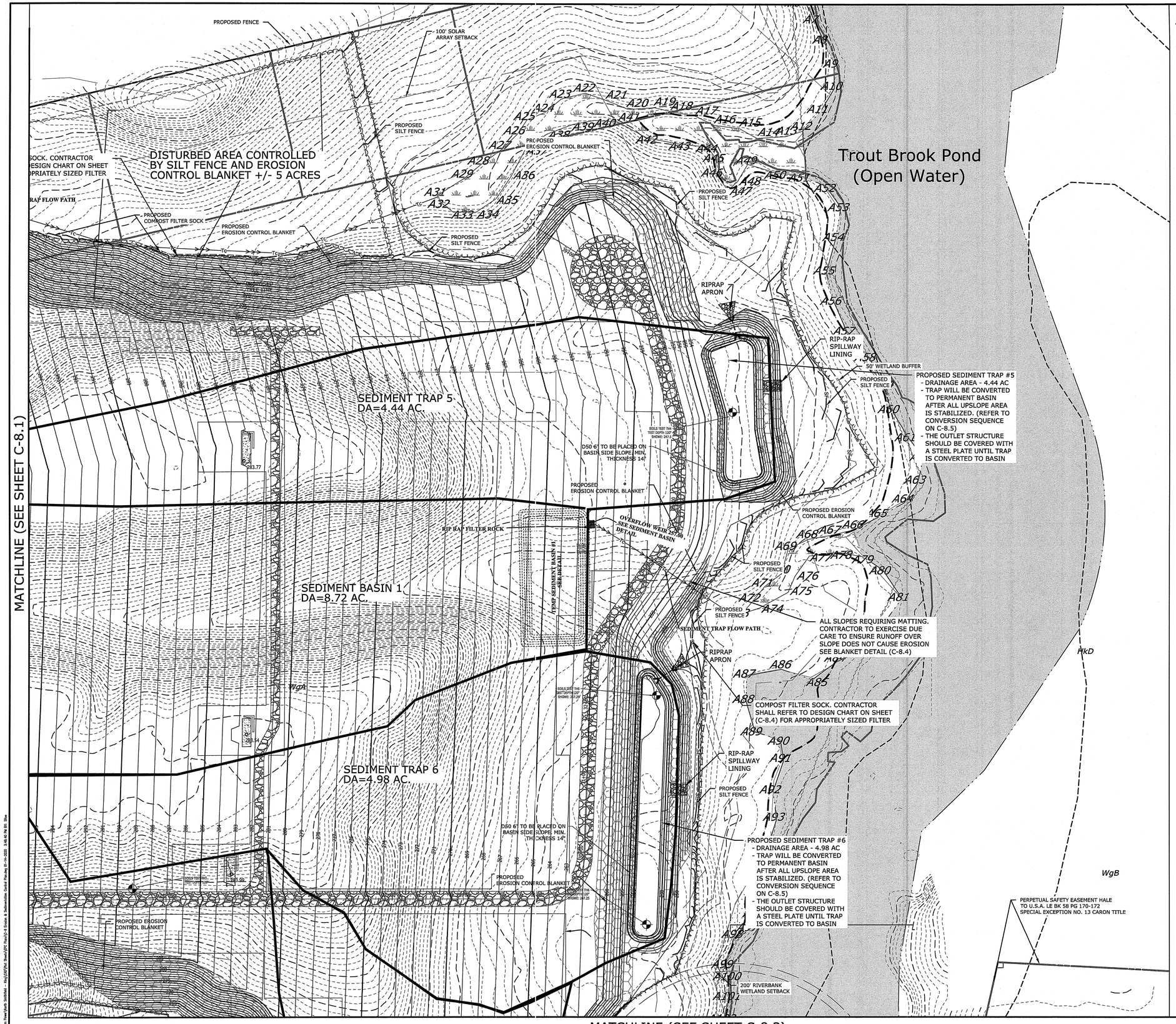

SOILS INFORMATION

- AfA, 0 TO 3 PERCENT SLOPES, AWAGAWAM FINE SANDY LOAM
- CdB, 3 TO 8 PERCENT SLOPES, CANTON AND CHARLTON FINE SANDY LOAMS
- CeC, 3 TO 15 PERCENT SLOPES, CANTON AND CHARLTON FINE SANDY LOAMS
- CnD, 15 TO 25 PERCENT SLOPES, CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS
- Du, DUMPS
- FeA, 0 TO 1 PERCENT SLOPES, FREETOWN MUCK
- HkA, 0 TO 3 PERCENT SLOPES, HINCKLEY LOAMY SAND
- HkC, 8 TO 15 PERCENT SLOPES, HINCKLEY LOAMY SAND
- HkD, 15 TO 25 PERCENT SLOPES, HINCKLEY LOAMY SAND
- MmB, 3 TO 8 PERCENT SLOPES, MERRICMAC FINE
- MU, 0 TO 8 PERCENT SLOPES, MERRIMAC-URBAN LAND COMPLEX
- Pg, PITS, GRAVEL
- Rf, 0 TO 8 PERCENT SLOPES, RIDGEBURY, LEICESTER AND WHITMAN SOILS, EXTREMELY STONEY
- Sb, 0 TO 3 PERCENT SLOPES, SCARBORO MUCKY FINE SANDY LOAM
- Ss, SUDBURY SANDY LOAM
- StB, 3 TO 8 PERCENT SLOPES, SUTTON FINE SANDY LOAM
- SwA, 0 TO 1 PERCENT SLOPES, SWANSEA MUCK
- W, WATER
- Wa, 0 TO 3 PERCENT SLOPES, WALPOLE SANDY LOAM
- WgA, 0 TO 3 PERCENT SLOPES, WINDSOR LOAMY SAND
- WgB, 3 TO 8 PERCENT SLOPES, WINDSOR LOAMY SAND

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED E&S CONTROL PLAN FEATURES

- STABILIZED ROCK CONSTRUCTION ENTRANCE
- SOIL MATERIAL STOCKPILE
- SF SF STANDARD SILT FENCE (18" HIGH)
- SS SS SILT SOCKS
- RIPRAP
- EROSION CONTROL MATTING
- LOD LOD LOD LOD LIMIT OF DISTURBANCE

MAR 12 2020 180314
CONSTRUCTION PRIOR APPROVAL OF BMP CONSTRUCTION SITE

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING, 6201 SE MONTICELLO TERRACE, MARTIN, FL 33455
ALFRED M CARON, PO BOX 869, SLATERSVILLE, RI 02876
WALLACE AND DOROTHY STONE, 55 CIDAR MILL ROAD, NORTH SMITHFIELD, RI 02896

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Applicant
DEPCOM POWER
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
EROSION & SEDIMENTATION CONTROL PLAN - EAST

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/14/20

SCALE:	1" = 60'
DATE:	06/05/2019
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	338781.0000

DRAWING NO.: C-8.2

Xrefs: ...\Depcom Power\North Smithfield - King\Civil\Plot Sheets\SPC Plans\Sht & Elevations & Delineation\...
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MATCHLINE (SEE SHEET C-8.2)

SEDIMENT TRAP 7
DA=2.65 AC.

PROPOSED EROSION CONTROL BLANKET

S 12°47'41" E
787.68'

TOPSOIL STOCKPILE

SEE NOTES BELOW FOR GRADING AROUND MONITORING WELLS

PROPOSED SILT FENCE

PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE

100' RIVERBANK WETLAND SETBACK

EXISTING RIVER/STREAM CENTERLINE

100' RIVERBANK WETLAND SETBACK

PROPOSED EROSION CONTROL BLANKET

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

RIP RAP FILTER ROCK

PROPOSED SILT FENCE

COMPOST FILTER SOCK. CONTRACTOR SHALL REFER TO DESIGN CHART ON SHEET (C-8.4) FOR APPROPRIATELY SIZED FILTER

50' WETLAND SETBACK

10' PROJECT SETBACK

15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 122 PG 244 SPECIAL EXCEPTION NO. 14 CARON TITLE

OVERFLOW WEIR-253.00 SEE SEDIMENT TRAP DETAIL

PROPOSED SILT FENCE

PROPOSED RECEIVING PIT

100' SOLAR ARRAY SETBACK

SEDIMENT TRAP FLOW PATH

EXISTING WETLAND CROSSING

100' SOLAR ARRAY SETBACK

200' RIVERBANK WETLAND SETBACK

10' PROJECT SETBACK

10'x20' Shed

PROPOSED BORING PIT

10'x12' Shed

SILT FENCE TO BE UTILIZED PRIOR TO TRAP CONSTRUCTION

N 53°39'22" W
1785.80'

EXISTING WETLAND

TROUT BROOK CENTERLINE

200' RIVERBANK WETLAND SETBACK

EXISTING RESIDENCE #1363

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

N 20°47'38" E
123.42'

EXISTING RESIDENCE #1375

POUND HILL RD
PUBLIC RIGHT-OF-WAY 50'

S 39°49'35" W
177.58'

GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

SOILS INFORMATION

AfA, 0 TO 3 PERCENT SLOPES, AWAGWAN FINE SANDY LOAM

CdB, 3 TO 8 PERCENT SLOPES, CANTON AND CHARLTON FINE SANDY LOAMS

CeC, 3 TO 15 PERCENT SLOPES, CANTON AND CHARLTON FINE SANDY LOAMS

ChD, 15 TO 25 PERCENT SLOPES, CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS

Du, DUMPS

FeA, 0 TO 1 PERCENT SLOPES, FREETOWN MUCK

HkA, 0 TO 3 PERCENT SLOPES, HINCKLEY LOAMY SAND

HkC, 8 TO 15 PERCENT SLOPES, HINCKLEY LOAMY SAND

HkD, 15 TO 25 PERCENT SLOPES, HINCKLEY LOAMY SAND

MmB, 3 TO 8 PERCENT SLOPES, MERRIMAC FINE

MU, 0 TO 8 PERCENT SLOPES, MERRIMAC-URBAN LAND COMPLEX

Pg, PITS, GRAVEL

Rf, 0 TO 8 PERCENT SLOPES, RIDGEBURY, LEICESTER AND WHITMAN SOILS, EXTREMELY STONEY

Sb, 0 TO 3 PERCENT SLOPES, SCARBORO MUCKY FINE SANDY LOAM

Ss, SUDBURY SANDY LOAM

StB, 3 TO 8 PERCENT SLOPES, SUTTON FINE SANDY LOAM

SwA, 0 TO 1 PERCEN" SLOPES, SWANSEA MUCK

W, WATER

Wa, 0 TO 3 PERCEN" SLOPES, WALPOLE SANDY LOAM

WgA, 0 TO 3 PERCEN" SLOPES, WINDSOR LOAMY SAND

WgB, 3 TO 8 PERCENT SLOPES, WINDSOR LOAMY SAND

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED E&S CONTROL PLAN FEATURES

- STABILIZED ROCK CONSTRUCTION ENTRANCE
- SOIL MATERIAL STOCKPILE
- SF SF STANDARD SILT FENCE (18" HIGH)
- SS SS SILT SOCKS
- RIPRAP
- EROSION CONTROL MATTING
- LOD LOD LOD LOD LIMIT OF DISTURBANCE

MAR 12 2020 — 183147

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING, 6201 SE MONTICELLO TERRACE, MARTIN, FL 33455
ALFRED M CARON, PO BOX 869, SLATERSVILLE, RI 02876
WALLACE AND DOROTHY STONE, 55 CIDAR MILL ROAD, NORTH SMITHFIELD, RI 02896

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Applicant
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SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
EROSION & SEDIMENTATION CONTROL PLAN - SOUTH

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/14/20

SCALE:	1" = 60'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-8.3

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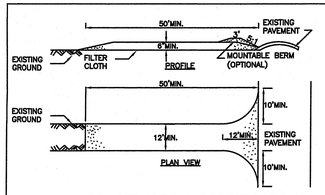
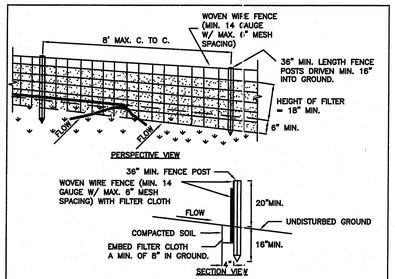


CONSTRUCTION SPECIFICATIONS

1. STONE SIZE – USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

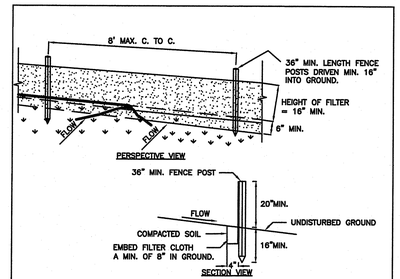
STABILIZED CONSTRUCTION ACCESS



CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "L" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL MEET THE MINIMUM REQUIREMENTS SHOWN.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

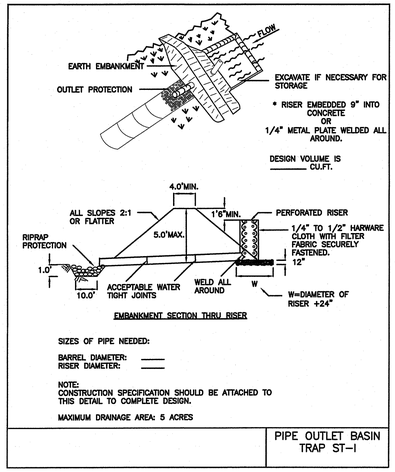
REINFORCED SILT FENCE



CONSTRUCTION SPECIFICATIONS

1. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
3. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE



EMBANKMENT SECTION THRU RISER

SIZES OF PIPE NEEDED:

BARREL DIAMETER: _____
RISER DIAMETER: _____

NOTE:
CONSTRUCTION SPECIFICATION SHOULD BE ATTACHED TO THIS DETAIL TO COMPLETE DESIGN.

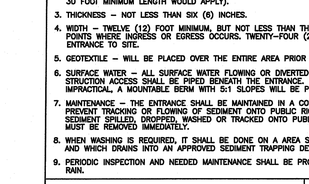
MAXIMUM DRAINAGE AREA: 5 ACRES

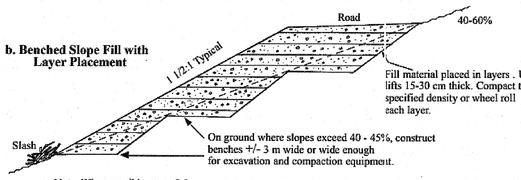
PIPE OUTLET BASIN TRAP ST-I

CONSTRUCTION SPECIFICATIONS

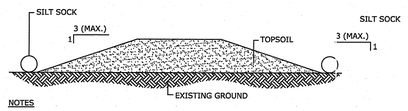
1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
3. VOLUME OF SEDIMENT STORAGE SHALL BE 3600 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE.
4. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND STABILIZED.
5. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
6. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED.
7. THE STRUCTURE SHALL BE REMOVED AND AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
8. ALL FILL SLOPES SHALL BE 2:1 OR FLATTER; CUT SLOPES 1:1 OR FLATTER.
9. ALL PIPE CONNECTIONS SHALL BE WATERTIGHT.
10. THE TOP 2/3 OF THE RISER SHALL BE PERFORATED WITH ONE (1) INCH DIAMETER HOLES OR SLITS SPACED SIX (6) INCHES VERTICALLY AND HORIZONTALLY AND PLACED IN THE CONCAVE PORTION OF PIPE. NO HOLES WILL BE ALLOWED WITHIN SIX (6) INCHES OF THE HORIZONTAL BARREL.
11. THE RISER SHALL BE WRAPPED WITH 1/4 TO 1/2 INCH HARDWARE CLOTH WIRE THEN WRAPPED WITH FILTER CLOTH (HAVING AN EQUIVALENT SIEVE SIZE OF 40-80). THE FILTER CLOTH SHALL EXTEND SIX (6) INCHES ABOVE THE HIGHEST HOLE AND SIX (6) INCHES BELOW THE LOWEST HOLE. WHERE ENDS OF THE FILTER CLOTH COME TOGETHER, THEY SHALL BE OVER-LAPPED, FOLDED AND STAPLED TO PREVENT BYPASS.
12. STRAPS OR CONNECTING BANDS SHALL BE USED TO HOLD THE FILTER CLOTH AND WIRE FABRIC IN PLACE. THEY SHALL BE PLACED AT THE TOP AND BOTTOM OF THE CLOTH.
13. FILL MATERIAL AROUND THE PIPE SPILLWAY SHALL BE HAND COMPACTED IN FOUR (4) INCH LAYERS. A MINIMUM OF TWO (2) FEET OF HAND COMPACTED BACKFILL SHALL BE PLACED OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT.
14. THE RISER SHALL BE ANCHORED WITH EITHER A CONCRETE BASE OR STEEL PLATE BASE TO PREVENT FLOTATION. FOR CONCRETE BASE THE DEPTH SHALL BE TWELVE (12) INCHES WITH THE RISER EMBEDDED NINE (9) INCHES. A 1/4 INCH MINIMUM THICKNESS STEEL PLATE SHALL BE ATTACHED TO THE RISER BY A CONTINUOUS WELD AROUND THE BOTTOM TO FORM A WATERTIGHT CONNECTION AND THEN PLACE TWO (2) FEET OF STONE, GRAVEL, OR TAMPED EARTH ON THE PLATE.

PIPE OUTLET SEDIMENT BASIN ST-I





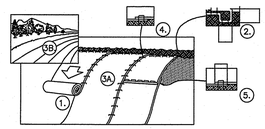
BENCHED SLOPE FILL LAYER PLACEMENT
SCALE: NONE



NOTES

1. STOCKPILE SHALL BE SURROUNDED BY COMPOST FILTER SOCK OR SILT FENCE PER MANUFACTURER'S SPECIFICATIONS.
2. STOCKPILE SHALL RECEIVE TEMPORARY VEGETATIVE STABILIZATION IN ACCORDANCE WITH THE RI DEM STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IMMEDIATELY AFTER COMPLETION OF STOCKPILE.

TOP SOIL STOCKPILE DETAIL
SCALE: NONE



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.

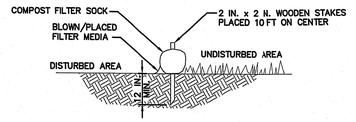
NOTE:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
FOR SLOPES GREAT THAN TEN PERCENT (20%).

EROSION CONTROL BLANKET DETAIL
SCALE: NONE

NORTH AMERICAN GREEN C125 OR EQUAL
CONTRACTOR SHALL ENSURE ANY SUBSTITUTE PRODUCT MEETS SITE SPECIFIC REQUIREMENTS.

EROSION CONTROL STABILIZATION NOTES

1. *TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.*
2. *AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES, OR 6 TO 12 INCHES ON COMPACTED SOILS, PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.*
3. *UPON TEMPORARY CESSATION OF AN EARTH DISTURBANCE OR ANY STAGE OR PHASE OF AN ACTIVITY WHERE A CESSATION OF EARTH DISTURBANCE ACTIVITIES EXCEEDS 4 DAYS, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION PENDING FUTURE EARTH DISTURBANCE ACTIVITIES."*
4. *STRAW MULCH MUST BE APPLIED AT RATES OF AT LEAST 3.0 TONS PER ACRE. STRAW MULCH SHOULD BE ANCHORED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN.*
5. *ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED.*
6. *EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER, WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS ACCORDING TO THE STANDARDS OF THIS PLAN.*
7. *IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.*
8. *PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.*
9. *E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY RIDEM.*



PLAN VIEW

NOTES:

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

COMPOST FILTER SOCKS
RECOMMENDED DESIGN PRACTICE FOR COMPOST FILTER DEVICES IS THAT DRAINAGE AREAS DO NOT EXCEED 0.25 ACRE PER 100 FEET OF DEVICE LENGTH AND FLOW DOES NOT EXCEED ONE CUBIC FOOT PER SECOND (EPA, 2006). COMPOST FILTER SOCKS MAY BE USED, SUBJECT TO THE SLOPE CONDITIONS LISTED IN FIGURE 2. FIGURE 2: RECOMMENDED SPACING AND DIAMETER REQUIREMENTS FOR COMPOST FILTER SOCKS CONTRACTOR SHALL USE APPROPRIATE DIAMETER COMPOST FILTER SOCK BASED ON THE FOLLOWING CHART:

COMPOST FILTER SOCK SLOPE LENGTH REQUIREMENTS

SLOPE %	12"	18"	24"	32"
	MAXIMUM SLOPE LENGTH ABOVE COMPOST FILTER SOCK			
2 (OR LESS)	750	1000	1300	1650
5	500	550	650	750
10	250	300	400	500
15	170	200	325	450
20	125	140	280	400
25	100	110	200	275
30	75	90	130	200
35	75	80	115	150
40	50	80	100	125

COMPOST FILTER SOCK DETAIL
SCALE: NONE

STANDARD E&S PLAN NOTES

1. *ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT (E&S) PLAN. A COPY OF THE APPROVED DRAWINGS.*
2. *AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL.*
3. *CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BEST MANAGEMENT PRACTICES (BMPS) SPECIFIED BY THE CONSTRUCTION SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.*
4. *AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.*
5. *IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BMPS TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION.*
6. *ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS. DISCHARGE POINTS SHOULD BE ESTABLISHED TO PROVIDE FOR MAXIMUM DISTANCE TO ACTIVE WATERWAYS.*
7. *UNTIL THE SITE IS STABILIZED, ALL E&S BMPS MUST BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL E&S BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.*
8. *SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.*
9. *ALL EXCAVATION FOR UTILITY LINE INSTALLATION SHALL BE LIMITED TO THE AMOUNT THAT CAN BE EXCAVATED, INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY. ALL EXCAVATED MATERIAL SHALL BE DEPOSITED ON THE UPSLOPE SIDE OF THE TRENCH.*
10. *CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS*
11. *SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.*

FILL NOTES:
CLEAN FILL DUE TO ANALYTICAL TESTING. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.

1. *ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 30 CM OR 12 INCHES IN THICKNESS.*
2. *COMPACT FILL SLOPES USE SPECIFIC COMPACTION PROCEDURES SUCH AS WHEEL ROLLING, LAYER PLACEMENT, AND USE OF SPECIFIC COMPACTION MATERIAL.*
3. *SLOPES SHALL BE TEMPORARILY STABILIZED WITH TEMPORARY SLOPE MATTING AND COMPOST FILTER SOCK UNTIL VEGETATION IS PERMANENTLY ESTABLISHED. (SEE DETAILS AND DESIGN GUIDANCE THIS SHEET)*
4. *FILL ACTIVITY SHALL BE A:COMPLETED DURING SPRING SUMMER AS TO QUICKLY ESTABLISH VEGETATION OR B: EROSION CONTROL BLANKET SHALL BE UTILIZED TO CONTROL EROSION UNTIL VEGETATION CAN BE ESTABLISHED.*
5. *FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.*
6. *FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.*
7. *FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.*

MAR 12 2020
180314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455
WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896
ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

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JAN 16 2020

Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
EROSION & SEDIMENTATION CONTROL DETAILS

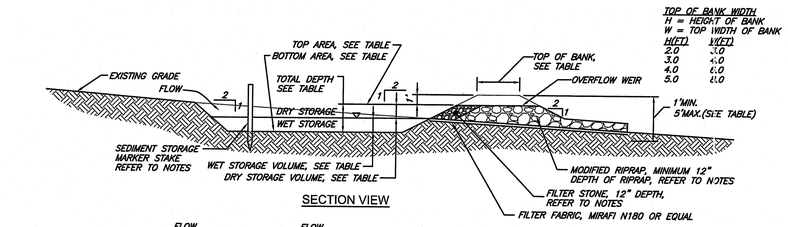
STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	AS SHOWN
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-8.4

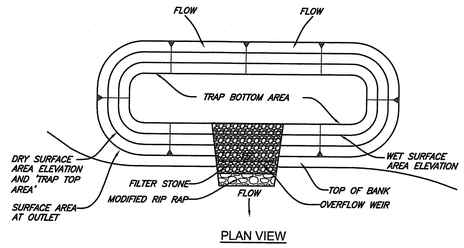
01/14/20

J:\Depcom PowerWork Smithfield - Indy\Civil\Plot Sheets\EPC Files\EC-4-4 Erosion & Sedimentation Control Details.dwg EC-4-4 2020 01 14 BY: JBee

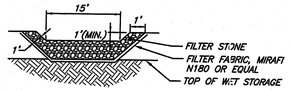
Xrefs: ..\..\Smithfield\North Smithfield-01_wTB.dwg
Images: R3_TRC Imagery-Mapping\Logos\Client Logos\DP_LOGO350.png , Images\TurningPoint Energy3.jpg



SECTION VIEW



PLAN VIEW



OVERFLOW WEIR SECTION

TEMPORARY SEDIMENT TRAP DETAIL

NOT TO SCALE

SEDIMENT TRAP DATA	TRAP 1	TRAP 2	TRAP 3	TRAP 4	TRAP 5	TRAP 6	TRAP 7
COTRIBUTORY AREA AC.	3.65	4.54	4.20	2.66	4.44	4.98	2.65
WET STORAGE DEPTH, FT	1.0	1.0	1.0	1.0	1.0	1.0	1.0
DRY STORAGE DEPTH, FT	1.0	1.0	1.0	1.0	1.0	1.0	1.0
TOTAL DEPTH (WET/DRY), FT	2.0	2.0	2.0	2.0	2.0	2.0	2.0
TRAP BOTTOM AREA, SQ.FT.	6,752	8,103	8,640	4,470	9,667	9,466	4,470
TRAP TOP AREA, SQ.FT.	9,709	11,189	11,811	6,245	12,604	15,224	6,861
TRAP BOTTOM	310	307	310	300	250	249	251
BERM ELEVATION	313	310	313	303	253	252	254

SEDIMENT TRAP CALCULATION

Trap	Drainage Area	Required Storage Volume	Required Wet Storage	Provided Wet Storage	Bottom Surface Elevation of Trap	Surface Area provided at Bottom of Trap	Elevation at which Wet Storage is Provided	Surface Area provided at Wier Elevation	Required Dry Storage	Provided Dry Storage	Elevation at which Wet Storage is Provided
	AC.	*CF*	*CF*	*CF*	*FT*	*SF*	*FT*	*SF*	*CF*	*CF*	*FT*
1	3.65	13,206	6,603	7,471	310	6,752	311	9,709	6,603	8,949	312
2	4.54	16,426	8,213	8,858	307	8,103	308	11,189	8,213	10,401	309
3	4.2	15,196	7,598	9,425	310	8,640	311	11,811	7,598	11,010	312
4	2.66	9,624	4,812	5,050	300	4,470	301	6,245	4,812	6,245	302
5	4.44	16,064	8,032	10,388	250	9,667	251	12,604	8,032	11,857	252
6	4.98	18,018	9,009	11,210	249	9,466	250	15,224	9,009	14,089	251
7	2.65	9,588	4,794	5,050	251	4,470	252	6,861	4,794	6,246	253

GENERAL NOTES:

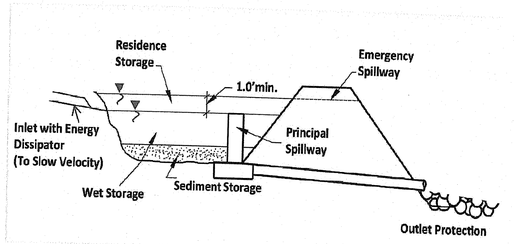
1. THE TEMPORARY SEDIMENT TRAP SHALL MEET ALL REQUIREMENTS FOR TEMPORARY SEDIMENT TRAPS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST REVISION) SECTION SIX: SEDIMENT CONTROL MEASURES.
2. THE TEMPORARY SEDIMENT TRAP SHALL HAVE AN INITIAL STORAGE VOLUME OF 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA.
3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
4. THE OUTLET SHALL BE LOCATED AT THE MOST DISTANT HYDRAULIC POINT FROM THE INLET.
5. THE OUTLET CONSISTS OF A PERVIOUS STONE OUTLET WITH A CORE OF MODIFIED RIP RAP AND FACED ON THE UPSTREAM SIDE WITH STONE FILTER.
6. TEMPORARY SEDIMENT TRAPS MUST OUTLET ONTO STABILIZED GROUND.
7. MAXIMUM HEIGHT OF A TEMPORARY SEDIMENT TRAP EMBANKMENT IS LIMITED TO FIVE FEET.
8. SIDE SLOPES OF THE EMBANKMENT SHALL BE 2:1 OR FLATTER.
9. MODIFIED RIP RAP SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.10.03.2 AND BE R-4 GRADE RIPRAP.
10. FILTER STONE SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

INSPECTION, MAINTENANCE AND REMOVAL REQUIREMENTS:

1. INSTALL SEDIMENT STORAGE STAKE WITH A MARKER AT ONE HALF OF THE WET STORAGE VOLUME.
2. INSPECT THE TEMPORARY SEDIMENT TRAP AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCHES OR GREATER.
3. CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT.
4. CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE.
5. WHEN SEDIMENTS HAVE ACCUMULATED TO ONE HALF THE MINIMUM REQUIRED VOLUME OF THE WET STORAGE, DEWATER THE TRAP AS NEEDED, REMOVE SEDIMENTS AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS.
6. DISPOSE OF THE SEDIMENT REMOVED FROM THE BASIN IN A SUITABLE AREA.
7. THE TEMPORARY SEDIMENT TRAP MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.

INSTALLATION NOTES:

1. CLEAR GRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA.
2. REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN 3 INCHES AND OTHER DEBRIS.
3. EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS.
4. USE ONLY FILL MATERIAL FOR THE EMBANKMENT THAT IS FREE FROM EXCESSIVE ORGANICS, DEBRIS, LARGE ROCKS (OVER SIX INCHES) OR OTHER UNSUITABLE MATERIALS. COMPACT THE EMBANKMENT IN 9 INCH LAYERS BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
5. STABILIZE THE EARTHEN EMBANKMENT USING ANY OF THE FOLLOWING MEASURES, SEEDING FOR TEMPORARY VEGETATION COVER, SEEDING FOR PERMANENT VEGETATIVE COVER, OR SLOPE PROTECTION, IMMEDIATELY AFTER INSTALLATION.



TEMPORARY SEDIMENT BASIN DETAIL

NOT TO SCALE

Sediment Basin #	Drainage Area	Avg. Annual Erosion	Delivery Ratio	Sediment Trap Efficiency	Estimated Sediment Density	Required Sediment Storage Volume	Required Wet Storage Volume	Provided Sediment Storage	Provided Wet Storage Volume
	(DA) in Ac	A in (Ton/Ac/yr)	DR	TE	y in (lbs/cu.ft)	V in (ac.ft./yr)	2*V	V in (ac.ft./yr)	V in (ac.ft./yr)
1	9.97	1.0	45	0.8	75	0.22	0.44	0.29	0.51

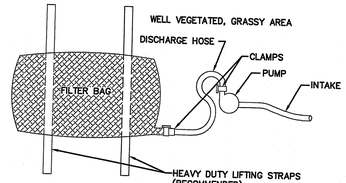
SEDIENT BASIN#	BOTTOM EL.	EMBANKMENT EL.	SEDIMENT STORATGE EL.	WET STORAGE EL.	PRINCIPAL SPILLWAY EL	PRINCIPAL SPILLWAY SIZE	OUTLET PIPE INV. IN.	OUTLET PIPE INV. OUT.	EM. SPILLWAY EL.
1	252.0	256.0	253.0	254.5	254.5	12" CMP PIPE	252.0	251.0	255.0

INSPECTION, MAINTENANCE AND REMOVAL REQUIREMENTS:

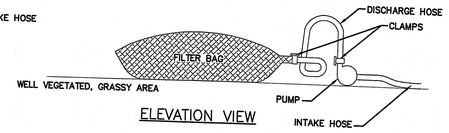
1. INSTALL SEDIMENT STORAGE STAKE WITH A MARKER AT ONE HALF OF THE WET STORAGE VOLUME.
2. INSPECT THE TEMPORARY SEDIMENT TRAP AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCHES OR GREATER.
3. CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT.
4. CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE.
5. WHEN SEDIMENTS HAVE ACCUMULATED TO ONE HALF THE MINIMUM REQUIRED VOLUME OF THE WET STORAGE, DEWATER THE TRAP AS NEEDED, REMOVE SEDIMENTS AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS.
6. DISPOSE OF THE SEDIMENT REMOVED FROM THE BASIN IN A SUITABLE AREA.
7. THE TEMPORARY SEDIMENT BASIN MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.

INSTALLATION NOTES:

1. CLEAR GRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA.
2. REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN 3 INCHES AND OTHER DEBRIS.
3. EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS.
4. USE ONLY FILL MATERIAL FOR THE EMBANKMENT THAT IS FREE FROM EXCESSIVE ORGANICS, DEBRIS, LARGE ROCKS (OVER SIX INCHES) OR OTHER UNSUITABLE MATERIALS. COMPACT THE EMBANKMENT IN 9 INCH LAYERS BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
5. STABILIZE THE EARTHEN EMBANKMENT USING ANY OF THE FOLLOWING MEASURES, SEEDING FOR TEMPORARY VEGETATION COVER, SEEDING FOR PERMANENT VEGETATIVE COVER, OR SLOPE PROTECTION, IMMEDIATELY AFTER INSTALLATION.



PLAN VIEW



ELEVATION VIEW

CONSTRUCTION SEQUENCE FOR SEDIMENT TRAPS AND BASINS:

DEWATERING
ONCE THE CONTRIBUTING DRAINAGE AREA IS FULLY STABILIZED, THE SEDIMENT BASINS AND TRAPS SHOULD BE CAREFULLY DEWATERED TO THE SEDIMENT LAYER. DEWATERING SHOULD BE COMPLETED SLOWLY TO PREVENT RESUSPENSION OF CAPTURED SEDIMENT.

DEMUCKING AND CLEANING OF SEDIMENT BMPS
EXCESS MATERIAL MUST BE REMOVED AND DISPOSED OF WITHOUT RELEASING SEDIMENT OR SLURRY INTO ANY EXISTING OUTLET STRUCTURES, RECEIVING STREAM OR LOCAL DRAINAGE SYSTEM. ONCE THE TRAP/BASIN BOTTOM MATERIAL HAS BEEN SUFFICIENTLY DEWATERED AND DRIED, IT MAY BE SCOOPED OUT WITH A TRACK HOE OR LOADER. THE CONTRACTOR SHOULD EXCAVATE BASIN TO THE PERMANENT DESIGN ELEVATIONS SET FORTH ON THE GRADING PLANS. EXCESS MATERIAL SHOULD BE DISPOSED OF AS PROJECT FILL OR TOP SOILED ACCORDING TO THE APPROVED PLANS. HEAVY EQUIPMENT SHOULD NOT BE USED ON THE BASIN BOTTOM. CARE SHOULD BE TAKEN TO ENSURE THE PROPER ELEVATION AND STABILITY OF ALL PERMANENT OUTLET STRUCTURES.

FINAL STABILIZATION
ALL STRUCTURES AND DESIGN ELEVATIONS SHALL BE VERIFIED AFTER SEDIMENT REMOVAL. THE STORMWATER DETENTION BASIN BOTTOM, SIDES, UPSTREAM AND DOWNSTREAM SLOPES AND BASIN BERM SHOULD BE STABILIZED WITH PERMANENT VEGETATION TO PREVENT EROSION AND SEDIMENT DISPERSAL. BEST MANAGEMENT PRACTICES SUCH AS SEEDING, MULCHING, SODDING AND CONTROL BLANKETS SHALL BE UTILIZED TO ESTABLISH A VEGETATIVE COVER. PERIMETER CONTROLS SHALL REMAIN IN PLACE DURING ALL SEDIMENT TRAP AND BASIN CONVERSIONS, UNTIL PERMANENT STABILIZATION OF THE AREAS HAS BEEN ESTABLISHED.

NOTES:

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL. UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

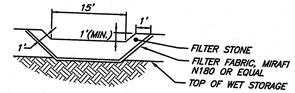
THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

TO BE CONSTRUCTED WITH MATERIALS AND TECHNIQUES IN ACCORDANCE WITH THE EROSION AND SEDIMENT POLLUTION CONTROL MANUAL EFFECTIVE DATE MARCH 31, 2012 AS AMENDED.

DEWATERING DEVICE

NOT TO SCALE



OVERFLOW WEIR SECTION

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 12 2020 FILE # 18024
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/20
1	ISSUED FOR CONSTRUCTION	06/05/20

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

TRC
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TRC Engineers, Inc.
650 Suffolk Street
Suite 200
Lowell, MA 01854
Tel: (978) 970-5600
www.TRCcompanies.com

JAN 16 2020

Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
EROSION & SEDIMENTATION CONTROL DETAILS

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	AS SHOWN
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-8.5

Stephen M. Loss 01/14/20

Xrefs: L:\Dwfs\North Smithfield\C-01_xTB.dwg
Images: P:_TRC Imagery-Mapping\Logos\Client Logos\DP_LOGO80.png ..\Images\TurningPoint Energy3.jpg

L:\Planner Files\Work Smithfield - Proj\Civil\Plot Sheets\[EPC Plan\C-8.5 Erosion & Sedimentation Control Details.dwg 01-14-2020 3:59:09 PM ET Stee

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- INDEX CONTOUR LINE
- INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

NOTE:
PROPOSED TREE LINE SHOWN FOR CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINE.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 12 2020 FILE # 18-0317
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	REVISION	DATE
2	CONSTRUCTION REVISIONS	01/14/2020
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
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SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
LAYDOWN AREA PLAN

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/14/20

SCALE:	1" = 40'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-9.0

JAN 14 2020

J:\Depcom Power\North Smithfield — Reg\CAD\Plot Sheets\DPC Plans\C-9.0 Layfown Area Plan.dwg 01-14-2020 3:59:42 PM ET: rBlew

Xrefs: ...\..\XrefsNorth Smithfield\01_xrTitle.dwg ...\..\XrefsNorth Smithfield\04_xrSITE.dwg ...\..\XrefsNorth Smithfield\25_xrDSP.dwg ...\..\XrefsNorth Smithfield\26_xrGRADE.dwg ...\..\XrefsNorth Smithfield\04_xrSITE-LAYDOWN.dwg
Images: FI_TRC Imagery-Mapping\Logos\Client Logos\DP_LOGO300.png ...\Images\TurningPoint Energy3.jpg ATTN: Rhode Island Solar Holdings\North Smithfield - Reg\BOUNDS FILE\Base Rms map\4400102300.png

AP 4
Lot 447
n/f
Town of North Smithfield

AP 7
Lot 62
n/f
United States Government

AP 7
Lot 22
n/f
Slater Homes, LLC

AP 7
Lot 81
UPLAND AREA
n/f
Narragansett Electric Company

AP 7
Lot 53
n/f
Gerald M. & Nancy Ann Perron

AP 7
Lot 66
n/f
Slater Homes, LLC

AP 7
Lot 23

AP 7
Lot 68
n/f
Charles S. Wilson

AP 7
Lot 24

AP 7
Lot 70
n/f
Rochelle White

UPLAND AREA

Special Exception No. 3 Caron Title

Perpetual Safety Easement Hate To U.S.A.
LE Bk 58 Pages 170–172
Special Exception No. 3 Caron Title

15' Tennessee Gas Right Of Way Easement
LE Bk 122 Page 244
Special Exception No. 4 Caron Title

Flowage Easement
LE Bk 12 Page 193
Special Exception No. 2 Caron Title

Drainage Easement
LE Bk 160 Pages 629–632
Special Exception No. 7 Caron Title

Match Line PG 2
Match Line PG 3
Match Line PG 4

Road

Hill

Pound

Public Various Width

To Old Oxford Road

P.O.B.
N: 326765.00
E: 306697.48

BENCHMARK
FOUND IRON
N: 327020.16
E: 307169.91
ELEV: 264.22

Pole # 116
Pole # 119
Culvert

Existing Granite Bound
Existing Concrete Bound
Existing Drill Hole
Set Drill Hole
Existing Iron Pin
Proposed Iron Pin
Existing Utility Pole
Existing Wood Post & Wire Fence
Chain Link Fence
Boulder Wall
Overhead Power line
Contour line (with Contour)
Match–line
WETLAND
Water Meter
50' Perimeter Wetland
Riverbank Wetland
Wetland Edge
Monitor well

LEGEND

- 100.00' — Existing Property Line
- Right of Way Line
- Approximate Easement Line
- Setback Line (see notes)
- Existing Stone Wall
- Tree Line

NAD 83

SCALE 1"=100'
0 100' 200'

BOYER ASSOCIATES
1071 MAIN STREET
WEST WARWICK, RI 02893
TEL. (401)821-8872 FAX (401)826-1993

ALTA/NSPS LAND TITLE
COMPREHENSIVE BOUNDARY SURVEY
DATA ACCUMULATION SURVEY
A.P. LOT 12, A.P. LOT 23, A.P. LOT 24, A.P. LOT 46, A.P. LOT 53, A.P. LOT 66, A.P. LOT 81, A.P. LOT 82, A.P. LOT 83, A.P. LOT 84, A.P. LOT 85 CONTAINING

104± ACRES

NORTH SMITHFIELD, RHODE ISLAND

MARK D. BOYER
No. 1888
PROFESSIONAL LAND SURVEYOR

NORTH SMITHFIELD, RHODE ISLAND	
Date: 9/4/2018	Scale: 1"-100'
Sheet 4of 4	J.N.: 18-166
Drawn by: JH	Checked by: DR
Revised:	

THIS DRAWING PREPARED AT
BLEW & ASSOCIATES, INC.
3825 N. SHILOH DRIVE
FAYETTEVILLE, ARKANSAS 72703
OFFICE: 479.443.4506 FAX: 479.582.1883
www.BLEWINC.com

THIS DRAWING PREPARED FOR:
TIMMONS GROUP, INC.
1001 BOULDERS PARKWAY
RICHMOND, VIRGINIA 23225
OFFICE: 804.200.6500
FAX: 804.560.1016
www.TIMMONS.com

YOUR VISION ACHIEVED THROUGH OURS.

TIMMONS GROUP

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS SECTION
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED _____ FILE # _____
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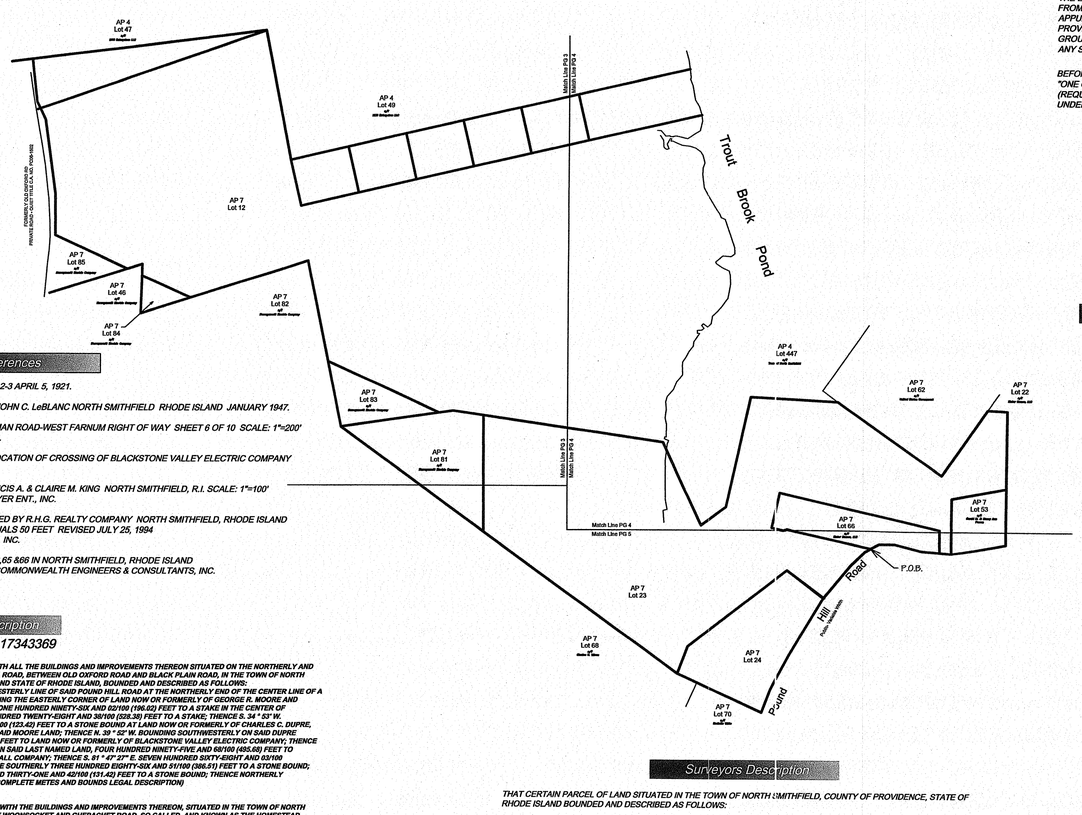
JAN 15 2019

PROPERTY AND SHEET LAYOUT

NOT TO SCALE



References

ND EVIDENCE BOOK 24 PAGE 2-3 APRIL 5, 1921.

AN OF LAND BELONGING TO JOHN C. LeBLANC NORTH SMITHFIELD RHODE ISLAND JANUARY 1947.

TIONAL GRID MAP OF SHERMAN ROAD-WEST FARNUM RIGHT OF WAY SHEET 6 OF 10 SCALE: 1"=200'
: 06/20/1968 REVISED 06/10/16.

ANS SHOWING PROPOSED LOCATION OF CROSSING OF BLACKSTONE VALLEY ELECTRIC COMPANY
T OF WAY--VARIOUS DATES.

AN OF LAND OWNED BY FRANCIS A. & CLAIRE M. KING NORTH SMITHFIELD, R.I. SCALE: 1"=100'
: JUNE 1994 BY RC COURNOYER ENT., INC.

SEMENT PLAN OF LAND OWNED BY R.H.G. REALTY COMPANY NORTH SMITHFIELD, RHODE ISLAND
ARY 1992 SCALE: 1 INCH EQUALS 50 FEET REVISED JULY 25, 1994
ARC N. NYBERG ASSOCIATES, INC.

AN OF LAND FOR AP/7. LOT 22,65 &66 IN NORTH SMITHFIELD, RHODE ISLAND
E: 1"=50' DATE: 06/03/96 BY COMMONWEALTH ENGINEERS & CONSULTANTS, INC.

Schedule A - Description

COMMITMENT NO. 17343369

CEL I
RTAIN LOT OR PARCEL OF LAND WITH ALL THE BUILDINGS AND IMPROVEMENTS THEREON SITUATED ON THE NORTHERLY AND
THWESTERLY SIDES OF POUND HILL ROAD, BETWEEN OLD OXFORD ROAD AND BLACK PLAIN ROAD, IN THE TOWN OF NORTH
HFIELD, COUNTY OF PROVIDENCE AND STATE OF RHODE ISLAND, BOUNDED AND DESCRIBED AS FOLLOWS:
NING AT A POINT IN THE NORTHWESTERLY LINE OF SAID POUND HILL ROAD AT THE NORTHERLY END OF THIS CENTER LINE OF A
ERT, SAID POINT OF BEGINNING BEING THE EASTERLY CORNER OF LAND NOW OR FORMERLY OF GEORGE R. MOORE AND
IE C. MOORE; THENCE N. 39° 21' W. ONE HUNDRED NINETY-SIX AND 02/100 (196.02) FEET TO A STAKE IN THE CENTER OF
OOK; THENCE S. 66° 27' W. FIVE HUNDRED TWENTY-EIGHT AND 38/100 (528.38) FEET TO A STAKE; THENCE S. 34 ° 53' W.
HUNDRED TWENTY-THREE AND 42/100 (123.42) FEET TO A STONE BOUND AT LAND NOW OR FORMERLY OF CHARLES C. DUPRE,
LAST THREE LINES BOUNDING ON SAID MOORE LAND; THENCE N. 39 ° 52' W. BOUNDING SOUTHWESTERLY ON SAID DUPRE
, ABOUT TEN HUNDRED TEN (1,010) FEET TO LAND NOW OR FORMERLY OF BLACKSTONE VALLEY ELECTRIC COMPANY; THENCE
13° 43' W. BOUNDING WESTERLY ON SAID LAST NAMED LAND, FOUR HUNDRED NINETY-FIVE AND 68/100 (495.68) FEET TO
N NOW OR FORMERLY OF THE KENDALL COMPANY; THENCE S. 81 ° 47' 27" E. SEVEN HUNDRED SIXTY-EIGHT AND 03/100
3 FEET TO A STONE BOUND; THENCE SOUTHERLY THREE HUNDRED EIGHTY-SIX AND 51/100 (386.51) FEET TO A STONE BOUND;
ICE NORTHEASTERLY ONE HUNDRED THIRTY-ONE AND 42/100 (131.42) FEET TO A STONE BOUND; THENCE NORTHERLY
E: VESTING DEED CONTAINS AN INCOMPLETE METES AND BOUNDS LEGAL DESCRIPTION)

CEL II
RTAIN TRACT OR PARCEL OF LAND WITH THE BUILDINGS AND IMPROVEMENTS THEREON, SITUATED IN THE TOWN OF NORTH
HFIELD ON THE NORTH SIDE OF THE WOONSOCKET AND CHEPACHET ROAD, SO CALLED, AND KNOWN AS THE HOMESTEAD
TE OF THE LATE CARLISTA HART, AND IS DESCRIBED IN A CERTAIN DEED FROM EZRA WHITFORD TO SAID CARLISTA HART ON
RD IN TRANSCRIPT TOR OLD SMITHFIELD TO NORTH SMITHFIELD, BOOK NO. 1 PAGE 17.
D A CERTAIN TRACT OR PARCEL OF LAND, BOUNDED AND DESCRIBED AS FOLLOWS: VIZ: COMMENCING AT THE WESTERLY BOUND
ND OF THE LATE OLNEY A. HOWRY AND LAND OF SAID CARLISTA HART; THENCE SOUTHERLY ONE (1) ROD, MORE OR LESS, TO A
ND OF SAID CARLISTA HART'S LAND, THENCE, WESTERLY WITH SAID HART LAND (7) RODS MORE OR LESS TO A BOUND OF SAID
Y A. HOWRY AND SAID CARLISTA HART; THENCE NORTHERLY ONE (1) ROD, MORE OR LESS WITH SAID OLNEY A. HOWRY 'S
TO A STONE BOUND, THENCE EASTERLY SEVEN (7) RODS MORE OR LESS, PARALLEL WITH THE SECOND COURSE TO THE PLACE
NNING.

D A CERTAIN TRACT OR PARCEL OF LAND BOUNDED AND DESCRIBED AS FOLLOWS: BEGINNING AT THE SAID HIGHWAY AT THE
LE OF THE TROUT BROOK SO CALLED, THENCE IN A NORTHWESTERLY DIRECTION 11 RODS AND 6 FEET TO A STONE SET IN MIDDLE
AID TROUT BROOK, THENCE, IN A STRAIGHT LINE TO THE NORTH WEST CORNER OF LAND OF SAID TRUMAN SMITH DECEASED,
ICE WITH SAID SMITH'S LAND TO THE SAID HIGHWAY, THENCE WITH SAID HIGHWAY TO THE PLACE OF BEGINNING.

Schedule B - Section II

COMMITMENT NO. 17343369

ARCEL I
. FLOWAGE RIGHTS PURSUANT TO DOCUMENT RECORDED RECORDED IN BOOK 12, PAGE 193.
PLOTTED AND SHOWN)

. EASEMENT(S) AND/OR RIGHTS OF WAY RECORDED IN BOOK 58, PAGE 170.
PLOTTED AND SHOWN)

. EASEMENT(S) AND/OR RIGHTS OF WAY TO TENNESSEE GAS PIPELINE COMPANY RECORDED IN BOOK
22, PAGE 244.
PLOTTED AND SHOWN)

. FARM FOREST, AND OPEN SPACE LAND CLASSIFICATION RECORDED IN BOOK 223, PAGE 1065.
BLANKET IN NATURE)

ARCEL II
. INTENTIONALLY DELETED.

. DRAINAGE EASEMENT TO RICHARD GALLANT RECORDED IN BOOK 160, PAGE 629.
PLOTTED AND SHOWN)

Property Information

Utility Notes

THE LOCATION OF UTILITIES SHOWN HEREON ARE FROM OBSERVED EVIDENCE OF ABOVE GROUND APPURTENANCES ONLY. THE SURVEYOR WAS NOT PROVIDED WITH UNDERGROUND PLANS OR SURFACE GROUND MARKINGS TO DETERMINE THE LOCATION OF ANY SUBTERRANEAN USES.

BEFORE DIGGING IN THIS AREA, CALL "ONE CALL" 811 FOR FIELD LOCATIONS (REQUEST FOR GROUND MARKINGS) OF UNDERGROUND UTILITY LINES

811 Know what's below. Call before you dig.

Street Index
Pound Hill Road
Formerly Old Oxford Road

LINE TABLE

LINE	BEARING	DISTANCE
L1	S 79°58'54" W	225.00'
L2	N 84°15'29" W	49.75'
L3	N 83°51'09" W	74.90'
L4	N 77°22'50" W	115.46'
L5	S 89°36'09" W	66.34'
L6	S 61°11'58" W	58.00'
L7	S 61°11'58" W	27.75'
L8	S 46°15'56" W	86.67'
L9	S 39°49'35" W	177.58'
L10	S 31°02'14" W	282.59'
L11	S 28°17'23" W	159.35'
L12	S 21°01'57" W	107.58'
L13	N 63°33'17" E	131.42'
L14	S 79°36'54" W	225.00'
L15	S 00°36'55" W	225.00'
L16	S 77°22'02" E	365.00'
L17	N 74°28'25" E	17.07'
L18	S 77°09'51" E	49.85'

LEGEND

- 100.00' — Existing Property Line
- Right of Way Line
- Approximate Easement Line
- Setback Line (see notes)
- Existing Stone Wall
- Tree Line
- EGB — Existing Granite Bound
- ECB — Existing Concrete Bound
- EDH — Existing Drill Hole
- SDH — Set Drill Hole
- EIP — Existing Iron Pin
- PIP — Proposed Iron Pin
- Existing Utility Pole
- Existing Wood Post & Wire Fence
- Chain Link Fence
- Boulder Wall
- Overhead Power line
- XXX — Contour line (with Contour)
- Match-line
- WETLAND
- Water Meter
- 50' Perimeter Wetland
- Riverbank Wetland
- A-1 — Wetland Edge
- Monitor well

State Certification

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015 AS FOLLOWS:

TYPE OF BOUNDARY SURVEY:	MEASUREMENT SPECIFICATION
COMPREHENSIVE BOUNDARY SURVEY	I
OTHER TYPE OF SURVEY:	
DATA ACCUMULATION SURVEY	III
TOPOGRAPHIC SURVEY ACCURACY	T-3

THE PURPOSE FOR THE CONDUCT OF THIS SURVEY AND FOR THE PREPARATION OF THIS PLAN IS TO DELINEATE THE BOUNDARY LINES OF THE PARCEL, IDENTIFY ANY ENCROACHMENTS OR EASEMENTS ON OR AGAINST THE SUBJECT PARCEL & DELINEATE THE EXISTING TOPOGRAPHY OF THE PROPERTY AS A PART OF AN ALTA/NSPS LAND TITLE SURVEY.

BY:

MARK D. BOYER- RLS #1888
BOYER ASSOCIATES COA A-317

Surveyor Certification

TO: TPE RHODE ISLAND SOLAR HOLDINGS 2, LLC, DORIS M. CARON, WITH LIFE ESTATE RESERVED TO GRANTEE, DORIS M. CARON (PARCEL I), ALFRED M. CARON AND SANDRA M. CARON (AS TO PARCEL II), FIDELITY NATIONAL INSURANCE COMPANY:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6A, 6B, 7A, 7B(1), 7C, 8, 9, 11, 13, 14, 15, 16, 17, 19, 20, 21* AND 23* OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON (JANUARY 26, 2018).

*CLIENT SPECIFIC REQUIREMENTS
21. PRICING WILL BE GIVEN FOR TOPOGRAPHIC CONTOUR LINES ACCURATE WITHIN +/- 1 FOOT OF ACTUAL GRADE. SURVEYOR AND TURNINGPOINT ENERGY MUST ALL AGREE ON GRANULARITY OF CONTOUR LINES PRIOR TO EXECUTION OF ANY WORK. ALL CONTOUR LINES MUST EXTEND A MINIMUM OF 20 FEET BEYOND THE PARCEL BOUNDARIES OR THE LIMITS OF SURVEYING AS DEFINED BY TURNINGPOINT ENERGY

23. ALL POSSIBLE SITE ACCESS POINTS/PATHS FROM PUBLIC ROADS, WITH ALL SURVEY INFORMATION EXTENDING A MINIMUM OF 20 FEET BEYOND THE ACCESS POINT/PATH.

9-4-18

DATE MARK D. BOYER # 1888
BOYER ASSOCIATES C.O.A. # A317
DATE OF LAST REVISION:

Building Detail

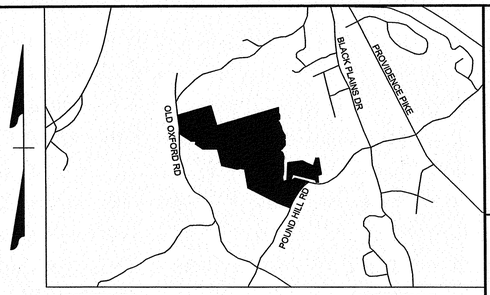
Building 1
1 Story Shed
151.69 Sq. Feet

Building 2
1 Story Shop Building
895.97 Sq. Feet

Building 3
1 Story House
1178.83 Sq. Feet

Building 4
1 Story Shop Building
496.65 Sq. Feet

MARK D. BOYER
No. 1888
9-4-18
PROFESSIONAL LAND SURVEYOR



VICINITY MAP NOT TO SCALE

Survey Notes

COMPLETED FIELD WORK:
JANUARY 26, 2018

BASIS OF BEARING:
NAD83 RHODE ISLAND STATE PLANE COORDINATE SYSTEM.

SOME FEATURES SHOWN ON THIS PLAT MAY BE SHOWN OUT OF SCALE FOR CLARITY

DIMENSIONS ON THIS PLAT ARE EXPRESSED IN FEET AND DECIMAL PARTS THEREOF UNLESS OTHERWISE NOTED. MONUMENTS WERE FOUND AT POINTS WHERE INDICATED.

A PORTION OF SUBJECT PARCEL LIES WITHIN "ZONE A" - NO BASE FLOOD ELEVATION ESTABLISHED- AND "ZONE X" 0.2% ANNUAL CHANCE FLOOD HAZARD , AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTH LESS THAN ONE FOOT OR WITH DRAINAGE AREAS LESS THAN ONE SQUARE MILE- AS DELINEATED ON FIRM FLOOD INSURANCE RATE MAP PROVIDENCE COUNTY, RHODE ISLAND. TOWN OF NORTH SMITHFIELD - COMMUNITY NUMBER-PANEL-SUFFIX 440021-0152-G MAP NUMBER 44007C0152G. EFFECTIVE DATE MARCH 2, 2009.

AT THE TIME OF THE ALTA SURVEY THERE WAS NO OBSERVABLE EVIDENCE OF EARTH WORK, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS WITHIN RECENT MONTHS.

AT THE TIME OF THE ALTA SURVEY THERE WERE NO CHANGES IN STREET RIGHT-OF-WAY LINES EITHER COMPLETED OR PROPOSED, AND AVAILABLE FROM THE CONTROLLING JURISDICTION OR OBSERVABLE EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION REPAIRS.

AT THE TIME OF THE ALTA SURVEY THERE WAS NO OBSERVABLE EVIDENCE OF SITE USE AS A SOLID WASTE DUMP, SUMP, OR SANITARY LANDFILL.

THERE IS EVIDENCE OF ENCROACHMENTS.

NON-OBSCURED AREAS ONLY MEET NATIONAL MAP ACCURACY STANDARDS. THE ACCURACY AND COMPLETENESS OF AREAS OBSCURED FROM AERIAL VIEW DUE TO VEGETATION (AS OUTLINED ON THE MAP) CANNOT BE GUARANTEED OR CERTIFIED UNLESS CONVENTIONAL GROUND SURVEYS ARE PERFORMED. ADDITIONAL GROUND TRUTHING WILL BE PERFORMED DURING THE WETLAND DELINEATION.

NO SURVEYOR OR ANY OTHER PERSON OTHER THAN A LICENSED RHODE ISLAND ATTORNEY MAY PROVIDE LEGAL ADVICE CONCERNING THE STATUS OF TITLE TO THE PROPERTY DESCRIBED IN THIS SURVEY (THE "SUBJECT PROPERTY"). THE PURPOSE OF THIS SURVEY, AND THE COMMENTS RELATED TO THE SCHEDULE B-II EXCEPTIONS, IS ONLY TO SHOW THE LOCATION OF BOUNDARIES AND PHYSICAL OBJECTIONS IN RELATION THERETO. TO THE EXTENT THAT THE SURVEY INDICATES THAT A LEGAL INSTRUMENT "AFFECTS" THE SUBJECT PROPERTY, SUCH STATEMENT IS ONLY INTENDED TO INDICATE THAT PROPERTY BOUNDARIES INCLUDED IN SUCH INSTRUMENT INCLUDE SOME OR ALL OF THE SUBJECT PROPERTY. THE SURVEYOR DOES NOT PURPORT TO DESCRIBE HOW SUCH INSTRUMENT AFFECTS THE SUBJECT PROPERTY OR THE ENFORCEABILITY OR LEGAL CONSEQUENCES OF SUCH INSTRUMENT.

THE FOLLOWING STATEMENTS ARE APPLIED IN THE PHOTOGRAMMETRY PRODUCTION BY ASPRS POSITIONAL ACCURACY STANDARD FOR DIGITAL GEOSPATIAL DATA FOR 1' CONTOUR AND 50' MAPPING:

HORIZONTAL ACCURACY
THIS DATA SET WILL BE PRODUCED TO MEET ASPRS POSITIONAL ACCURACY STANDARDS FOR DIGITAL GEOSPATIAL DATA (2014) FOR A 15 (CM) RMSEX / RMSEY HORIZONTAL ACCURACY CLASS WHICH EQUATES TO POSITIONAL HORIZONTAL ACCURACY = +/- 36.7 CM AT A 95% CONFIDENCE LEVEL.

VERTICAL ACCURACY
THIS DATA SET WILL BE PRODUCED TO MEET ASPRS POSITIONAL ACCURACY STANDARDS FOR DIGITAL GEOSPATIAL DATA (2014) FOR A 10 CM RMSEZ VERTICAL ACCURACY CLASS EQUATING TO NVA =+/-19.6 CM AT 95% CONFIDENCE LEVEL AND VVA =+/- 30 CM AT THE 95TH PERCENTILE.

THE ORTHO IMAGERY RESOLUTION IS 0.25'. HORIZONTAL ACCURACY RMSEX / RMSEY IS 0.5'.

SURVEYOR DID NOT RECEIVE ANY INFORMATION FROM THE TITLE INSURER REGARDING THE CURRENT ZONING CLASSIFICATION OF THE PROPERTY OR ANY REQUIREMENTS RELATED TO THE APPLICABLE ZONING CLASSIFICATION. SURVEYOR OBTAINED THE ZONING INFORMATION REFLECTED ON THIS SURVEY ON HIS OWN. THE USER OF THIS SURVEY SHOULD CONSULT AN ATTORNEY OR TITLE INSURER TO VERIFY THE ZONING CLASSIFICATION OF THE PROPERTY AS WELL AS THE APPLICABLE RESTRICTIONS AND REQUIREMENTS ASSOCIATED WITH SUCH ZONING CLASSIFICATION.

SURVEYOR HAS GRAPHICALLY SHOWN SETBACKS BASED ON AN ASSUMPTION OF REAR & FRONT PROPERTY LINES.

LINE A-B-C-D-A IS AN AREA OF CONTENTION BASED ON RECORD DEEDS AND FIELD LOCATED MONUMENTS. MONUMENTATION WAS FOUND AT THE CORNERS AND ALONG LINE A-D. THE SURVEY COMPANY WAS CONTACTED BUT WAS NOT ALLOWED TO PROVIDE A COPY OF THEIR SURVEY AT THEIR CLIENTS DIRECTION. THE OWNERS OF BOTH PARCELS SHOULD PURSUE A BOUNDARY LINE AGREEMENT ALONG THE PARCEL IN QUESTION.

Surveyors Description

THAT CERTAIN PARCEL OF LAND SITUATED IN THE TOWN OF NORTH SMITHFIELD, COUNTY OF PROVIDENCE, STATE OF RHODE ISLAND BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE WESTERLY LINE OF POUND HILL ROAD SAID POINT BEING THE SOUTHEASTERLY CORNER OF LAND NOW OR FORMERLY BELONGING TO SLATER HOMES LLC;
THENCE S61 40'35"W A DISTANCE OF TWENTY-SEVEN AND 75/100 (27.75) FEET TO A POINT;
THENCE S46 15'35"W A DISTANCE OF EIGHTY-SIX AND 67/100 (86.67) FEET TO A POINT;
THENCE S50 10'25"W A DISTANCE OF TWO HUNDRED EIGHTY-TWO AND 56/100 (282.56) FEET TO A POINT;
THENCE S28 17'23"W A DISTANCE OF ONE HUNDRED FIFTY-NINE AND 12/100 (159.92) FEET TO A POINT;
THENCE S21 01'37"W A DISTANCE OF ONE HUNDRED SEVEN AND 59/100 (107.59) FEET TO A POINT;
THENCE S65 29'23"W BOUNDED SOUTHEASTERLY IN PART BY LAND NOW OR FORMERLY BELONGING TO ROCHELLE WHITE AND IN PART BY LAND NOW OR FORMERLY BELONGING TO CHARLES S. WILSON A DISTANCE OF THREE HUNDRED NINETY-ONE AND 30/100 (391.30) FEET TO A POINT;
THENCE N53 58'22"W BOUNDED SOUTHWESTERLY IN PART BY SAID WHITE AND IN PART BY LAND NOW OR FORMERLY BELONGING TO CHARLES S. WILSON A DISTANCE OF ONE THOUSAND SIXTEEN AND 11/100 (1016.11) FEET TO A POINT;
THENCE RUNNING N0 14'11W A DISTANCE OF FOUR HUNDRED EIGHTY-NINE AND 91/100 (489.91)FEET TO A STONE BOUND;
THENCE N71 47'52"E A DISTANCE OF ONE HUNDRED THIRTY AND 31/100 (130.31) FEET TO A POINT;
THENCE S81 54'38"W A DISTANCE OF FIFTY-NINE AND 43/100 (59.43) FEET TO A POINT;
THENCE N85 27'41"W A DISTANCE OF FIVE HUNDRED NINETEEN AND 83/100 (519.83) FEET TO A POINT;
THENCE N11 34'55"W A DISTANCE OF FOUR HUNDRED THIRTY-TWO AND 85/100 (432.85) FEET TO A STONE BOUND;
THENCE S72 32'53"W A DISTANCE OF FIVE HUNDRED TWENTY-TWO AND 51/100 (522.51) FEET TO A POINT;
THENCE N85 27'14"W A DISTANCE OF TWO HUNDRED TWENTY-SIX AND 07/100 (226.07) FEET TO A POINT;
THENCE N1 47'51"E A DISTANCE OF FORTY-EIGHT AND 16/100 (48.16) FEET TO A POINT;
THENCE S72 32'51"W A DISTANCE OF SIXTY-SIX AND 58/100 (66.58) FEET TO A POINT;
THENCE N85-27'14"W A DISTANCE OF THREE HUNDRED THIRTY-SEVEN AND 11/100 (337.11) FEET TO A POINT, SAID LAST TEN COURSES BEING BOUNDED SOUTHERLY, SOUTHERLY, SOUTHEASTERLY, SOUTHERLY,WESTERLY, SOUTHERLY, SOUTHWESTARLY,WESTERLY,SOUTHERLY AND SOUTHWESTERLY, RESPECTIVELY, BY LAND NOW OR FORMERLY BELONGING TO THE NARRAGANSETT ELECTRIC COMPANY;
THENCE N0 29'14"W A DISTANCE OF ONE HUNDRED SEVENTY-SEVEN AND 71/100 (177.71) FEET TO A POINT;
THENCE N7 46'43"W A DISTANCE OF THREE HUNDRED FIFTEEN AND 71/100 (315.75) FEET TO A POINT;
THENCE N25 10'57"W A DISTANCE OF EIGHTY-FIVE AND 67/100 (85.67) FEET TO A POINT;
THENCE N8-28-00W ONE HUNDRED EIGHTY AND 84/100 (180.84) FEET TO A POINT SAID LAST FOUR COURSES BEING BOUNDED,RESPECTIVELY, BY LAND NOW OR FORMERLY OWNED BY A-CS ENTERPRISES LLC;
THENCE N83 -01'56"E BOUNDED NORTHERLY BY SAID LAND OF MCS ENTERPRISES LLC A DISTANCE OF NINE HUNDRED NINETY-EIGHT AND 87/100 (998.87) FEET TO A POINT;
THENCE S11 29'44"E A DISTANCE OF FIVE HUNDRED FIFTY-EIGHT AND 00/100 (558.00) FEET TO A POINT;
THENCE N77 01'56"E A DISTANCE OF ONE THOUSAND SEVEN HUNDRED EIGHT AND 29/100 (1708.29) FEET TO A CONCRETE BOUND;
THENCE CONTINUING N77 01'56"E A DISTANCE OF TWENTY-FIVE (25)FEET, MORE OR LESS, TO THE EDGE OF TROUTBROOK COVE, SAID LAST FOUR COURSES BEING BOUNDED NORTHERLY, EASTERLY, NORTHERLY AND NORTHERLY, RESPECTIVELY, BY SAID MCS ENTERPRISES LLC;
THENCE RUNNING IN A GENERAL SOUTHERLY DIRECTION PARTLY ALONG THE EDGE OF TROUTBROOK COVE AND BOUNDED EASTERLY IN PART BY LAND NOW OR FORMERLY OWNED BY THE TOWN OF NORTH SMITHFIELD A DISTANCE OF TWO THOUSAND FIFTEEN (2015) FEET, MORE OR LESS, TO A POINT;
THENCE N81 47'51"W A DISTANCE OF TWENTY-FIVE (25) FEET, MORE OR LESS, TO A STONE BOUND;
THENCE S24 40'22"E A DISTANCE OF THREE HUNDRED EIGHTY-SIX AND 97/100 (386.97) FEET TO A STONE BOUND;
THENCE N53 33'17"E A DISTANCE OF ONE HUNDRED THIRTY-ONE AND 42/100 (131.42) FEET TO A POINT;
THENCE N12 32'37"E A DISTANCE OF FOUR HUNDRED FORTY-SEVEN AND 61/100 (447.61) FEET TO A STONE BOUND;
THENCE S87 06'57"E A DISTANCE OF THREE HUNDRED SIXTY-EIGHT AND 44/100 (368.44) FEET TO A POINT SAID LAST FIVE COURSES BEING BOUNDED SOUTHERLY, EASTERLY, NORTHERLY WESTERLY AND NORTHERLY, REPECTIVELY, BY LAND NOW OR FORMERLY BELONGING TO THE TOWN OF NORTH SMITHFIELD;
THENCE S34 56'01"E A DISTANCE OF FIVE HUNDRED THIRTY-EIGHT AND 00/100 (538.00) FEET TO A POINT;
THENCE N35 03'59"E A DISTANCE OF THREE HUNDRED THIRTY-EIGHT AND 56/100 (338.56)FEET TO A STONE BOUND, SAID LAST TWO COURSES BEING BOUNDED NORTHEASTERLY AND SOUTHEASTERLY, RESPECTIVELY, BY LAND NOW OR FORMERLY OWNED BY THE UNITED STATES GOVERNMENT;
THENCE S87 06'57"E BOUNDED NORTHERLY BY LAND NOW OR FORMERLY BELONGING TO PAUL A. & AUDREY L. GODIN A DISTANCE OF EIGHTY-TWO AND 89/100 (82.89) FEET TO A STONE BOUND;
THENCE S0 35'35"W BOUNDED EASTERLY BY LAND NOW OR FORMERLY BELONGING TO SLATER HOMES LLC A DISTANCE OF THREE HUNDRED TWENTY-SEVEN AND 96/100 (327.96) FEET TO AN IRON PIPE;
THENCE S79 38'34W A DISTANCE OF TWO HUNDRED THIRTY-FIVE AND 30/100 (235.00) FEET TO AN IRON PIPE;
THENCE S0 35'35"W A DISTANCE OF TWO HUNDRED THIRTY-FIVE AND 00/100 (235.00) FEET TO A POINT IN THE NORTHERLY LINE OF POUND HILL ROAD, SAID LAST TWO COURSES BEING BOUNDED SOUTHERLY AND EASTERLY, RESPECTIVELY, BY LAND NOW OR FORMERLY BELONGING TO GERALD M. & NANCY ANN PERRON;
THENCE N84 15'31"W BOUNDED SOUTHERLY BY SAID POUND HILL ROAD A DISTANCE OF FORTY-NINE AND 74/100 (49.74) FEET TO A POINT;
THENCE N0 18'39"E A DISTANCE OF NINETY-SEVEN AND 75/100 (97.75) FEET TO A POINT;
THENCE N77 08'16"W A DISTANCE OF SIX HUNDRED NINETY-TWO AND 54/100 (692.54100) FEET TO A POINT;
THENCE S12 50'57"W A DISTANCE OF ONE HUNDRED FIFTY-FIVE AND 07/100 (155.00) FEET TO A POINT;
THENCE S77 09'31"E A DISTANCE OF FORTY-NINE AND 93/100 (49.93) FEET TO A POINT;
THENCE N74 28'25"E A DISTANCE OF SEVENTEEN AND 07/100 (17.07) FEET TO A POINT;
THENCE S77 23'02"E A DISTANCE OF THREE HUNDRED SIXTY-THREE AND 03/100 (363.00) FEET TO THE POINT AND PLACE OF BEGINNING IN THE WESTERLY LINE OF SAID POUND HILL ROAD.

SAID PARCEL CONTAINS 104 ACRES, MORE OR LESS.

BOYER ASSOCIATES
1071 MAIN STREET
WEST WARWICK, RI 02893
TEL. (401)821-8872 FAX (401)826-1993

ALTA/NSPS LAND TITLE COMPREHENSIVE BOUNDARY SURVEY DATA ACCUMULATION SURVEY

A.P. LOT 12, A.P. LOT 23, A.P. LOT 24, A.P. LOT 46, A.P. LOT 53, A.P. LOT 66, A.P. LOT 81, A.P. LOT 82, A.P. LOT 83, A.P. LOT 84, A.P. LOT 85 CONTAINING

104± ACRES

NORTH SMITHFIELD, RHODE ISLAND

NORTH SMITHFIELD, RHODE ISLAND	
Date: 9/4/2018	Scale: 1"-100'
Sheet 1 of 4	J.N.: 18-166
Drawn by: JH	Checked by: DR
Revised:	

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.
3825 N. SHILOH DRIVE
FAYETTEVILLE, ARKANSAS 72703
OFFICE: 479.443.4506 FAX: 479.582.1883
www.BLEWINC.com
THIS DRAWING PREPARED FOR:
TIMMONS GROUP, INC.
1001 BOULDERS PARKWAY
RICHMOND, VIRGINIA 23225
OFFICE: 804.560.1010
FAX: 804.560.1016
www.TIMMONS.com

RELEASED FOR CONSTRUCTION
DATE: MAR 12 2019
AS SPECIFIED BY TIMMONS GROUP
DATED: 3/12/19
NO CHANGES ATTACHED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AVAILABLE AT CONSTRUCTION SITE

AP 4
Lot 47
n/f
MCS Enterprises LLC

AP 4
Lot 49
n/f
MCS Enterprises LLC

AP 7
Lot 12

AP 7
Lot 85
n/f
Narragansett Electric Company

AP 7
Lot 46
n/f
Narragansett Electric Company

AP 7
Lot 84
n/f
Narragansett Electric Company

AP 7
Lot 82
n/f
Narragansett Electric Company

AP 7
Lot 83
n/f
Narragansett Electric Company

AP 7
Lot 81
n/f
Narragansett Electric Company

BENCHMARK
FOUND IRON PIN
N: 328944.63
E: 304027.16
ELEV: 315.69

Approximate Location Of Traveled Way As Evidenced In Aerial Photography From 1939–2014.

SEE NOTE
Area In Contention

Deed Call

AES Staked Line

East Line of Quiet Title Judgment

FORMERLY OLD OXFORD RD
PRIVATE ROAD - QUIET TITLE C.A. NO. PC08-1602

15' Tennessee Gas Right Of Way/ Easement
LE Bk 116 Page 66
Special Exception No. 4 King Title

15' Tennessee Gas Right Of Way/ Easement
LE Bk 122 Page 244
Special Exception No. 4 Caron Title

50' Perimeter Wetland

UPLAND AREA

Match Line PG 2
Match Line PG 3

Match line PG 2
Match line PG 4

NAD 83

SCALE 1"=100'
0 100' 200'

LEGEND

- 100.00' — Existing Property Line
- Right of Way Line
- Approximate Easement Line
- Setback Line (see notes)
- Existing Stone Wall
- Tree Line
- EGB — Existing Granite Bound
- ECB — Existing Concrete Bound
- EDH — Existing Drill Hole
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- EIP — Existing Iron Pin
- PIP — Proposed Iron Pin
- Existing Utility Pole
- Existing Wood Post & Wire Fence
- Chain Link Fence
- Boulder Wall
- OHP — OHP — Overhead Power line
- 300 — Contour line (with Contour)
- Match–line
- WETLAND
- Water Meter
- 50' Perimeter Wetland
- Riverbank Wetland
- A-1 — Wetland Edge
- Monitor well

THE FOLLOWING STATEMENTS ARE APPLIED IN THE PHOTOGRAMMETRY PRODUCTION BY ASPRS POSITIONAL ACCURACY STANDARD FOR DIGITAL GEOSPATIAL DATA FOR 1' CONTOUR AND 50' MAPPING:

HORIZONTAL ACCURACY
THIS DATA SET WILL BE PRODUCED TO MEET ASPRS POSITIONAL ACCURACY STANDARDS FOR DIGITAL GEOSPATIAL DATA (2014) FOR A 15 (CM) RMSEX / RMSEY HORIZONTAL ACCURACY CLASS WHICH EQUATES TO POSITIONAL HORIZONTAL ACCURACY = +/- 36.7 CM AT A 95% CONFIDENCE LEVEL.

VERTICAL ACCURACY
THIS DATA SET WILL BE PRODUCED TO MEET ASPRS POSITIONAL ACCURACY STANDARDS FOR DIGITAL GEOSPATIAL DATA (2014) FOR A 10 CM RMSEZ VERTICAL ACCURACY CLASS EQUATING TO NVA =+/-19.6 CM AT 95% CONFIDENCE LEVEL AND VVA =+/- 30 CM AT THE 95TH PERCENTILE.

THE ORTHO IMAGERY RESOLUTION IS 0.25'. HORIZONTAL ACCURACY RMSEX / RMSEY IS 0.5'.

MARK D. BOYER
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PROFESSIONAL LAND SURVEYOR

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ALTA/NSPS LAND TITLE
COMPREHENSIVE BOUNDARY SURVEY
DATA ACCUMULATION SURVEY
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104± ACRES

NORTH SMITHFIELD, RHODE ISLAND

NORTH SMITHFIELD, RHODE ISLAND	
Date: 9/4/2018	Scale: 1"-100'
Sheet 2of 4	J.N.: 18-166
Drawn by: JH	Checked by: DR
Revised:	

THIS DRAWING PREPARED AT
BLEW & ASSOCIATES, INC
3825 N. SHILOH DRIVE
FAYETTEVILLE, ARKANSAS 72703
(479) 444-1566 FAX (479) 582-1865
OFFICE: 479-442-1566 FAX: 479.582.1865
www.BLEWINC.com

THIS DRAWING PREPARED FOR:
TIMMONS GROUP, INC.
1001 BOULDER ROCK, SUITE 200
RICHMOND, VIRGINIA 23225
OFFICE: 804.200.6300
FAX: 804.560.1016
www.TIMMONS.com

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TIMMONS GROUP

Schedule B - Section II COMMITMENT NO. 17341231

3. INTENTIONALLY DELETED

4. RIGHT OF WAY AGREEMENT IN FAVOR OF TENNESSEE GAS PIPELINE COMPANY, RECORDED 01/07/1948 AT BOOK 118, PAGE 56 OF PROVIDENCE COUNTY RECORDS.
(AFFECTS SUBJECT PARCEL, PLOTTED AND SHOWN)

Schedule B - Section II COMMITMENT NO. 17343671

3. EASEMENT(S) AND/OR RIGHTS OF WAY RECORDED IN BOOK 83, PAGE 446; BOOK 83, PAGE 447; BOOK 83, PAGE 448; BOOK 83, PAGE 419 AND BOOK 83, PAGE 450. (ALTA 34 - IDENTIFIED RISK ENDORSEMENT TO BE ISSUED)
(AFFECTS. SUBJECT PARCEL-ORIGIN AND LOCATION UNKNOWN-NOT PLOTTABLE. THERE IS NO EVIDENCE THAT ANY DEEDS OR RIGHTS-OF-WAY WERE CONVEYED ALONG WITH THIS PARCEL. THE PREVIOUS DEED OF THE ENTIRE PARCEL DID NOT GET CONVEYED WITH ANY.)

Schedule A-Description COMMITMENT NO. 17341231

SITUATED IN THE COUNTY OF PROVIDENCE AND STATE OF RHODE ISLAND AND DESCRIBED AS FOLLOWS:
BEING APPROXIMATELY 64 ACRES AND DESCRIBED IN THE PROBATE RECORDS OF FRANCES J. KING AS "BEING ALL LAND OF FRANCES J. KING LYING WESTERLY OF THE CENTER LINE OF TROUT BROOK" AND BEING A PORTION OF:
TRACT 1
A CERTAIN LOT OR PARCEL OF WOODLAND SITUATED IN THE SOUTHWESTERLY SHORE OF THE LOWER SLATERSVILLE RESERVOIR, ON THE EASTERLY SIDE OF THE OXFORD ROAD, SOMETIMES KNOWN AS THE OLD FARMS ROAD, ON THE WESTERLY SHORE OF THE TROUT BROOK COVE, ON BOTH SIDES OF THE TIFFT ROAD AND ON BOTH SIDES OF THE NEW YORK, NEW HAVEN AND HARTFORD RAILROAD LOCATION, NEAR THE VILLAGE OF SLATERSVILLE, IN THE NORTHWESTERLY PART OF SAID TOWN OF NORTH SMITHFIELD, BOUNDED AND DESCRIBED AS FOLLOWS, VIZ: BEGINNING AT A POINT IN THE MIDDLE OF SAID OLD OXFORD ROAD WHICH IS ABOUT FOUR HUNDRED TWENTY FIVE (425) FEET SOUTHERLY, MEASURED BY DIVERS COURSES ALONG THE MIDDLE OF SAID OXFORD ROAD, FROM SAID SOUTHWESTERLY SHORE OF THE LOWER SLATERSVILLE RESERVOIR, SAID POINT OF BEGINNING IS OPPOSITE A BOULDER MARKED TWO DRILL HOLES CLOSE TOGETHER, IN THE SOUTHWESTERLY CORNER OF LAND NOW OR FORMERLY OF CHARLES H. OSBORNE AND IS THE NORTHWESTERLY CORNER OF THE LOT HEREBY DESCRIBED; THENCE IN A GENERAL SOUTHERLY DIRECTION, WITH THE MIDDLE OF SAID OXFORD ROAD BY DIVERS COURSES, CROSSING SAID RAILROAD LOCATION AND PASSING BY THE WESTERLY END OF SAID TIFFT ROAD, TO LAND NOW OR FORMERLY OF HERBERT E. MAYNARD; THENCE IN A GENERAL EASTERLY DIRECTION BY DIVERS COURSES, WITH SAID MAYNARD LAND AND WITH LAND FORMERLY OF THE LATE HERBERT O. ALDRICH, TO THE AFORESAID WESTERLY SHORE OF THE TROUT BROOK COVE; THENCE NORTHERLY WITH SAID WESTERLY SHORE OF THE TROUT BROOK COVE, TO LAND NOW OR FORMERLY OF THOMAS F. RYAN; THENCE WESTERLY, WITH SAID RYAN LAND, TO THE SOUTHWESTERLY CORNER THEREOF; THENCE NORTHERLY, CONTINUING WITH SAID RYAN LAND AND WITH LAND NOW OR FORMERLY OF THE SLATERSVILLE FINISHING COMPANY CROSSING SAID TIFFT ROAD AND RE CROSSING SAID RAILROAD LOCATION, TO LAND NOW OR FORMERLY OF ALFRED A. POUDRIER; THENCE NORTHWESTERLY, WITH SAID LAND OF ALFRED A. POUDRIER, TWO HUNDRED TEN (210.00 FEET; THENCE NORTHERLY, CONTINUING WITH SAID LAND OF ALFRED A. POUDRIER, TWO HUNDRED TEN (210.0) FEET TO THE AFORESAID SOUTHWESTERLY SHORE OF THE LOWER SLATERSVILLE RESERVOIR; THENCE NORTHWESTERLY, WITH SAID SOUTHWESTERLY SHORE, TO THE NORTHEASTERLY CORNER OF THE AFORESAID LAND OF SAID OSBORNE; THENCE SOUTHERLY, WITH SAID LAND OF SAID OSBORNE, ONE HUNDRED SIXTY (160) FEET, MORE OR LESS, TO A MARKED OAK TREE FOR A CORNER; THENCE WESTERLY, CONTINUING WITH SAID LAND OF SAID OSBORNE AND PASSING THRU THE AFORESAID MARKED BOULDER, ABOUT ONE HUNDRED FIFTY (150) FEET TO THE POINT OF BEGINNING. EXCEPTING HOWEVER FROM THE ABOVE DESCRIBED PREMISES THAT PART OF THE NEW YORK AND NEW HAVEN AND HARTFORD RAILROAD LOCATION, THAT PART OF THE OXFORD ROAD AND THAT PART OF THE TIFFT ROAD THAT ARE INCLUDEDTHEREIN.
AND EXCEPTING THOSE PARCELS INCLUDED IN THE ABOVE DESCRIBED PREMISES THAT WERE DEEDED BY THIS GRANTOR TO THE KENDALL COMPANY AND TO EDWARD AND MARION SMITH
TRACT 2
THAT CERTAIN LOT OR PARCEL OF LAND SITUATED ON THE NORTHERLY SIDE OF THE OLD TIFFT ROAD, IN THE TOWN OF NORTH SMITHFIELD AND STATE OF RHODE ISLAND, BOUNDED AND DESCRIBED AS FOLLOWS: BEGINNING AT A POINT ON THE NORTHERLY SIDE OF SAID OLD TIFFT ROAD AT THE SOUTHEASTERLY CORNER OF OTHER LAND OF THE GRANTEE AND BEING THE SOUTHWESTERLY CORNER OF THE LOT HEREBY DESCRIBED; THENCE N. 8° 59' E . WITH SAID OTHER LAND OF THE GRANTEE, TWO H UNDRED FIFTY-FOUR AND 84/100 (254.84) FEET TO OTHER LAND OF THE GRANTOR FORMERLY THE LOCATION OF THE NEW YORK, NEW HAVEN AND HARTFORD RAILROAD COMPANY; THENCE N. 79° 31' E. FIVE HUNDRED NINETY-THREE AND 27/100 (593.27) FEET TO A POINT OF CURVE; THENCE NORTHEASTERLY ON A CURVED LINE HAVING A RADIUS OF FIVE THOUSAND SIX HUNDRED NINETEEN AND 83/100 (5,619.83) FEET, ONE THOUSAND TWO HUNDRED FORTY-NINE AND 97/100 (1,249.97) FEET, MORE OR LESS, TO THE TROUT BROOK COVE, SO CALLED: THENCE SOUTHWESTERLY, SOUTHERLY AND SOUTHEASTERLY WITH SAID TROUT BROOK COVE ABOUT SEVEN HUNDRED (700.00) FEET TO THE AFORESAID OLD TIFFT ROAD; THENCE S. 74° 09' W. EIGHTY-TWO AND 49/100 (82.49) FEET; THENCE S. 65° 04' W. SEVENTY-ONE AND 57/100 (71.57) FEET; THENCE S. 59° 21' W. NINETY-THREE AND 25/100 (93.25) FEET; THENCE S. 66° 48' W. TWO H UNDRED THIRTY-SIX AND 55/100 (236.55) FEET; THENCE S. 77° 03' W. SEVENTY AND 29/100 (70.29) FEET; THENCE N. 84° 07' W. ONE HUNDRED TWELVE AND 49/100 (112.49) FEET; THENCE N. 76°32' W. ONE HUNDRED EIGHTY-EIGHT AND 63/100 (188.63) FEET; THENCE S. 89°41' W. ONE HUNDRED SIXTY-SEVEN AND 5.10 (167.50) FEET; THENCE S. 71°45' W. ONE HUNDRED TWENTY-SEVEN AND 15/100 (127.15) FEET; THENCE S. 66° 13' W. TWO HUNDRED NINETY FIVE AND 9/10 (295.90) FEET; THENCE S. 80°01' W. SIXTY-NINE AND 1/10 (69.10) FEET; THENCE N. 83° 42' W. ONE HUNDRED FIFTY-ONE AND 93/100 (151.93) FEET; THENCE S. 89°44' W. SEVENTY-FIVE AND 41/100 (75.41) FEET TO THE POINT OF BEGINNING, THE LAST THIRTEEN (13) COURSES BOUNDING ON THE AFORESAID OLD TIFFT ROAD; CONTAINING BY ESTIMATION FOURTEEN AND 18/100 (14.18) ACRES, MORE OR LESS
TRACT 3
THAT CERTAIN LOT OR PARCEL OF LAND SITUATED ON THE SOUTHERLY SIDE OF SAID OLD TIFFT ROAD, BOUNDED AND DESCRIBED AS FOLLOWS: BEGINNING AT A POINT ON THE SOUTHERLY SIDE OF OLD TIFFT ROAD AT THE NORTHEASTERLY CORNER OF OTHER LAND OF THE GRANTEE, SAID POINT BEING THE NORTHWESTERLY CORNER OF THE LOT HEREBY DESCRIBED; THENCE N. 89° 44' E. SEVENTY-EIGHT AND 89/100 (78.89) FEET; THENCE S. 83°42' E. ONE HUNDRED FIFTY-FOUR AND 83/100 (154.83) FEET; THENCE N. 80° 01' E. SEVENTY-SEVEN AND 8/10 (77/80) FEET; THENCE N. 66°13' E. TWO HUNDRED NINETY-EIGHT AND 3/10 (298.30) FEET; THENCE N. 71° 45' E. ONE HUNDRED TWENTY AND 35/100 (120.35) FEET; THENCE N. 89° 11' E, ONE HUNDRED FIFTY-EIGHT AND 32/100 (158.32) FEET; THENCE S. 78° 32' E. ONE HUNDRED EIGHTY-SIX AND 83/100 (186.83) FEET; THENCE S. 84° 07' E. ONE HUNDRED TWENTY AND 15/100 (120.15) FEET; THENCE N. 77° 03' E. SEVENTY-EIGHT AND 71/100 (78.71) FEET; THENCE N. 66° 48' E. TWO HUNDRED FORTY-TWO AND 75/100 (242.75) FEET; THENCE N. 50° 21' E. NINETY-THREE AND 71/100 (93.71) FEET; THENCE N. 65° 04' E. FORTY-SIX AND 64/100 (46.64) FEET; THENCE NO. 74° 09' E. SEVENTY-NINE AND 87/100 (79.87) FEET TO TROUT BROOK COVE, SO-CALLED; THENCE SOUTHWESTERLY AND SOUTHERLY BY SAID TROUT BROOK COVE ABOUT ONE THOUSAND SIX HUNDRED NINETY (1,690.00) FEET TO LAND NOW OR FORMERLY OF HENRY F. STONE; THENCE WESTERLY WITH SAID STONE AND ABOUT ONE THOUSAND SIX HUNDRED EIGHT-THREE (1,683.00) FEET TO THE AFORESAID OTHER LAND OF THE GRANTEE; THENCE NORTHEASTERLY WITH SAID OTHER LAND OF THE GRANTEE ABOUT ONE THOUSAND THREE HUNDRED TEN (1,310.00) FEET TO THE POINT OF BEGINNING: CONTAINING BY ESTIMATION EIGHTY-FOUR AND 12/100 (84.12) ACRES, MORE OR LESS.
TRACT 4
THAT CERTAIN LOT OR PARCEL OF LAND SITUATED SOUTHERLY OF THE OLD TIFFT ROAD AND ON THE WESTERLY SHORE OF TROUT BROOK COVE, BOUNDED AND DESCRIBED AS FOLLOWS: BEGINNING AT A POINT ON THE WESTERLY SIDE OF TROUT BROOK COVE AT THE NORTHEASTERLY CORNER OF LAND NOW OR FORMERLY OF AUGUST M. BALLOU; THENCE NORTHWESTERLY WITH SAID BALLOU LAND ABOUT NINE HUNDRED (900.00) FEET TO A STONE BOUND; THENCE WESTERLY STILL CONTINUING WITH SAID BALLOU LAND FOUR HUNDRED EIGHT-FIVE (485) FEET TO A STONE BOUND; THENCE NORTHEASTERLY IN PART WITH SAID BALLOU LAND, IN PART WITH LAND NOW OR FORMERLY OF CHESTER H. MAYNARD, JR., AND IN PART WITH OTHER LAND OF THE GRANTEE SEVEN HUNDRED TWENTY-NINE AND 5.10 (729.50) FEET; THENCE EASTERLY, STILL CONTINUING WITH OTHER LAND OF THE GRANTEE ONE THOUSAND SEVEN HUNDRED THIRTY-TWO AND 5.10 (1,732.50) FEET TO THE AFORESAID TROUT BROOK COVE; THENCE SOUTHWESTERLY WITH SAID TROUT BROOK COVE ABOUT ONE THOUSAND THREE HUNDRED (1,200.00) FEET TO THE POINT OF BEGINNING; CONTAINING BY ESTIMATION THIRTY AND 18/100 (30.18) ACRES, MORE OF LESS
LESS AND EXCEPT LAND CONVEYED TO BLACKSTONE VALLEY ELECTRIC COMPANY BY DEED, RECORDED 01/23/1970 AS BOOK 78, PAGE 288 OF PROVIDENCE COUNTY RECORDS.

Schedule A-Description COMMITMENT NO. 17343671

AP 07 LOT 101
A CERTAIN LOT OR PARCEL OF LAND SITUATED EASTERLY OF OLD OXFORD ROAD IN THE TOWN OF NORTH SMITHFIELD, COUNTY OF PROVIDENCE AND STATE OF RHODE ISLAND, HOUNDED AND DESCRIBED AS FOLLOWS:
BEGINNING AT A POINT WHICH IS THE MOST SOUTHWESTERLY COMER OF LAND NOW OR FORMERLY OF TROUTBROK FARMS AND BEING THE MOST NORTHWESTERLY COMER OF THE LOT HEREBY DESCRIBED; THENCE EASTERLY BOUNDING NORTHERLY BY LAND OF SAID TROUTBROOK FARMS TWO HUNDRED FIFTY (250) FEET, MORE OR LESS TO LAND NOW OR FORMERLY OF SCOTT AND CHERYL A. DONAHUE; THENCE SOUTHERLY, BOUNDING EASTERLY ON SAID DONAHUE LAND, TWO HUNDRED (200) FEET, MORE OR LESS, TO LAND NOW OR FORMERLY OF WILLIAM H. KING; THENCE WESTERLY TWO HUNDRED FIFTY (250) FEET, MORE OR LESS; THENCE NORTHERLY TWO HUNDRED (200) FEET, MORE OR LESS, TO THE POINT OR PLACE OF BEGINNING, THE LAST TWO LINES BOUNDING ON SAID KING LAND. CONTAINING ABOUT ONE (1) ACRE, MORE OR LESS.

AP 07, LOT 102
A CERTAIN LOT OR PARCEL OF LAND SITUATED EASTERLY OF OLD OXFORD ROAD IN THE TOWN OF NORTH SMITHFIELD, COUNTY OF PROVIDENCE AND STATE OF RHODE ISLAND, BOUNDED AND DESCRIBED AS FOLLOWS:
BEGINNING AT A POINT WHICH IS THE MOST NORTHEASTERLY CORNER OF LAND NOW OR FORMERLY OF WAYNE E. AND JEANNE M. STONE AND BEING THE MOST NORTHWESTERLY CORNER OF THE LOT HEREIN DESCIBED; THENCE EASTERLY, BOUNDING NORTHERLY BY LAND NOW OR FORMERLY OF TROUTBROOK FARMS, TWO HUNDRED FIFTY (250) FEET, MORE OR LESS, TO LAND NOW OR FORMERLY OF WALLACE E. STONE; THENCE SOUTHERLY, BOUNDING EASTERLY ON LAND NOW OR FORMERLY OF SAID WALLACE E. STONE TWO HUNDRED (200) FEET, MORE OR LESS TO LAND NOW OR FORMERLY OF WILLIAM A. KING; THENCE WESTERLY. BOUNDING SOUTHERLY ON SAID KING LAND TWO HUNDRED FIFTY (250) FEET, MORE OR LESS, TO LAND OF SAID WAYNE E. AND JEANNE M. STONE, NOW OR FORMERLY; THENCE NORTHERLY, BOUNDING WESTERLY ON SAID STONE LAND TWO HUNDRED (200) FEET, MORE OR LESS TO THE POINT OR PLACE OR BEGINNING. CONTAINING ABOUT ONE (1) ACRE, MORE OR LESS.

AP 07, LOT 103
A CERTAIN LOT OR PARCEL OF LAND SITUATED EASTERLY OF OLD OXFORD ROAD IN THE TOWN OF NORTH SMITHFIELD, COUNTY OF PROVIDENCE AND STATE OF RHODE ISLAND, BOUNDED AND DESCRIBED AS FOLLOWS:
BEGINNING AT A POINT WHICH IS THE MOST NORTHEASTERLY COMER OF LAND NOW OR FORMERLY OF SCOTT AND CHERYL A. DONAHUE AND THE MOST NORTHWESTERLY COMER OF THE LOT HEREBY DESCRIBED; THENCE EASTERLY BOUNDING NORTHERLY ON LAND NOW OR FORMERLY OF TROUTBROOK FARMS TWO HUNDRED FIFTY (250) FEET, MORE OR LESS, TO LAND NOW OR FORMERLY OF KEITH M. STONE; THENCE SOUTHERLY, BOUNDING EASTERLY ON SAID KEITH M. STONE LAND TWO HUNDRED (200) FEET, MORE OR LESS, TO LAND NOW OR FORMERLY OF WILLIAM H. KING; THENCE WESTERLY BOUNDING SOUTHERLY ON SAID KING LAND, TWO HUNDRED FIFTY (250) FEET, MORE OR LESS, TO LAND OF SAID DONAHUE; THENCE NORTHERLY BOUNDING WESTERLY ON SAID DONAHUE LAND TWO HUNDRED (200) FEET TO THE POINT OR PLACE OF BEGINNING.
CONTAINING ABOUT ONE (1) ACRE, MORE OR LESS.

AP 07, LOT 104
A CERTAIN LOT OR PARCEL OF LAND SITUATED EASTERLY OF OLD OXFORD ROAD IN THE TOWN OF NORTH SMITHFIELD, COUNTY OF PROVIDENCE AND STATE OF RHODE ISLAND, BOUNDED AND DESCRIBED AS FOLLOWS:
BEGINNING AT A POINT WHICH IS THE MOST NORTHEASTERLY CORNER OF LAND, NOW OR FORMERLY, OF GARY H. AND CHRISTINE A. STONE AND BEING THE MOST NORTHWESTERLY CORNER OF THE LOT HEREBY DESCRIBED; THENCE EASTERLY BOUNDING NORTHERLY ON LAND, NOW OR FORMERLY, OF TROUTBROOK FARMS TWO HUNDRED FIFTY (250) FEET, MORE OR LESS, TO LAND NOW OR FORMERLY OF KYLE E. STONE; THENCE SOUTHERLY BOUNDING EASTERLY ON LAND OF SAID KYLE E. STONE TWO HUNDRED (200) FEET, MORE OR LESS, TO LAND NOW OR FORMERLY OF WILLIAM H. KING; THENCE WESTERLY BOUNDING SOUTHERLY ON SAID KING LAND TWO HUNDRED FIFTY (250) FEET, MORE OR LESS, TO LAND OF SAID GARY H. AND CHRISTINE A. STONE; THENCE NORTHERLY BOUNDING WESTERLY ON SAID GARY H. AND CHRISTINE A. STONE LAND TWO HUNDRED (200) FEET, MORE OR LESS, TO THE POINT OR PLACE OF BEGINNING. CONTAINING ABOUT ONE (1) ACRE MORE OR LESS.

AP 07, LOT 105
A CERTAIN LOT OR PARCEL OF LAND SITUATED EASTERLY OF OLD OXFORD ROAD IN THE TOWN OF NORTH SMITHFIELD, COUNTY OF PROVIDENCE AND STATE OF RHODE ISLAND BOUNDED AND DESCRIBED AS FOLLOWS:
BEGINNING AT A POINT WHICH IS THE MOST NORTHEASTERLY CORNER OF LAND NOW OR FORMERLY OF KEITH M. STONE AND BEING THE MOST NORTHWESTERLY COMER OF THE LOT HEREBY DESCRIBED; THENCE EASTERLY BOUNDING NORTHERLY ON LAND NOW OR FORMERLY OF TROUTBROOK FARMS TWO HUNDRED FIFTY (250) FEET, MORE OR LESS, TO LAND NOW OR FORMERLY OF WALLACE E. STONE; THENCE SOUTHERLY BOUNDING EASTERLY ON SAID WALLACE E. STONE LAND TWO HUNDRED (200) FEET, MORE OR LESS, TO LAND NOW OR FORMERLY OF WILLIAM H. KING; THENCE WESTERLY, BOUNDING SOUTHERLY ON SAID KING LAND TWO HUNDRED FIFTY (250) FEET, MORE OR LESS, TO LAND OF SAID KEITH M. STONE; THENCE NORTHERLY BOUNDING WESTERLY ON SAID KEITH M. STONE LAND TWO HUNDRED (200) FEET. MORE OR LESS TO THE POINT OR PLACE OF BEGINNING. CONTAINING ABOUT ONE (1) ACRE MORE OR LESS.

AP 07. LOT 014
A CERTAIN TRACT OF LAND SITUATED IN SAID TOWN OF NORTH SMITHFIELD (FORMERLY SMITHFIELD) AND CONTAINING BY ESTIMATION IN THE WHOLE ABOUT SEVEN AND A HALF ACRES, BE THE SAME MORE OR LESS. IT IS BOUNDED AS FOLLOWS:
BEGINNING AT THE SOUTHWEST COMER AT A STAKE AND STONES. THENCE NORTH 78 ° E., WITH LAND BELONGING NOW OR FORMERLY TO HENRY MANSFIELD. JR ., TO A PITCH PINE KNOT AND STONE SET IN THE GROUND BY THE SIDE OF WILLIAM SLATER'S, POND, THENCE NORTHERLY WITH SAID POND 10 1/4 RODS TO A CHESTNUT STAKE, THENCE WESTERLY OR SOUTH ABOUT 80° WEST WITH LAND NOW OR FORMERLY BELONGING TO WILLIAM SLATER TO A STAKE AND STONES, THENCE SOUTH 4 1/2 °, E. 12 1/2 RODS TO THE FIRST MENTIONED BOUND.

MARK D. BOYER
No. 18881
PROFESSIONAL LAND SURVEYOR

BOYER ASSOCIATES
1071 MAIN STREET
WEST WARWICK, RI 02893
TEL. (401)821-8872 FAX (401)826-1993

THIS DRAWING PREPARED AT
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3825 N. SHILOH DRIVE
FAYETTEVILLE, ARKANSAS 72703
OFFICE: 479.443.4506 FAX: 479.582.1883
www.BLEWINC.com

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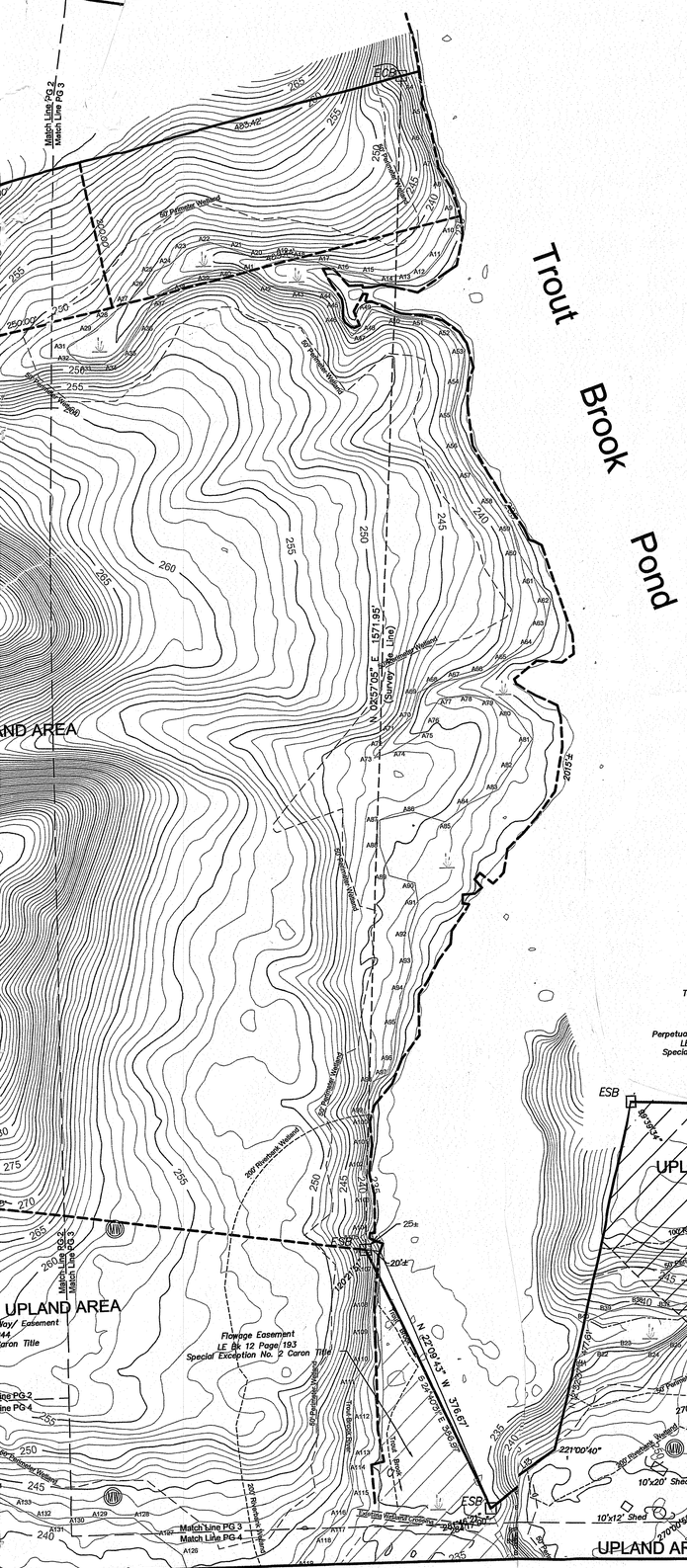


ALTA/NSPS LAND TITLE
COMPREHENSIVE BOUNDARY SURVEY
DATA ACCUMULATION SURVEY
A.P. LOT 12, A.P. LOT 23, A.P. LOT 24, A.P. LOT 46, A.P. LOT 53, A.P. LOT 66, A.P. LOT 81, A.P. LOT 82, A.P. LOT 83, A.P. LOT 84, A.P. LOT 85 CONTAINING

104± ACRES

NORTH SMITHFIELD, RHODE ISLAND

NORTH SMITHFIELD, RHODE ISLAND	
Date: 9/4/2018	Scale: 1"-100'
Sheet 3of 4	J.N.: 18-166
Drawn by: JH	Checked by: DR
Revised:	

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS SECTION
AS SPECIFIED IN THE APPROVAL LETTER
DATED MAR 12 2020
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

RECEIVED
JAN 16 2020
PROVIDENCE PLANNING

1803/4

DEM COPY

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 SEP 13 2019 FILE # 18-0814
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Environmental Management
JUL 18 2019
Office of Water Resources

CONSTRUCTION PLANS

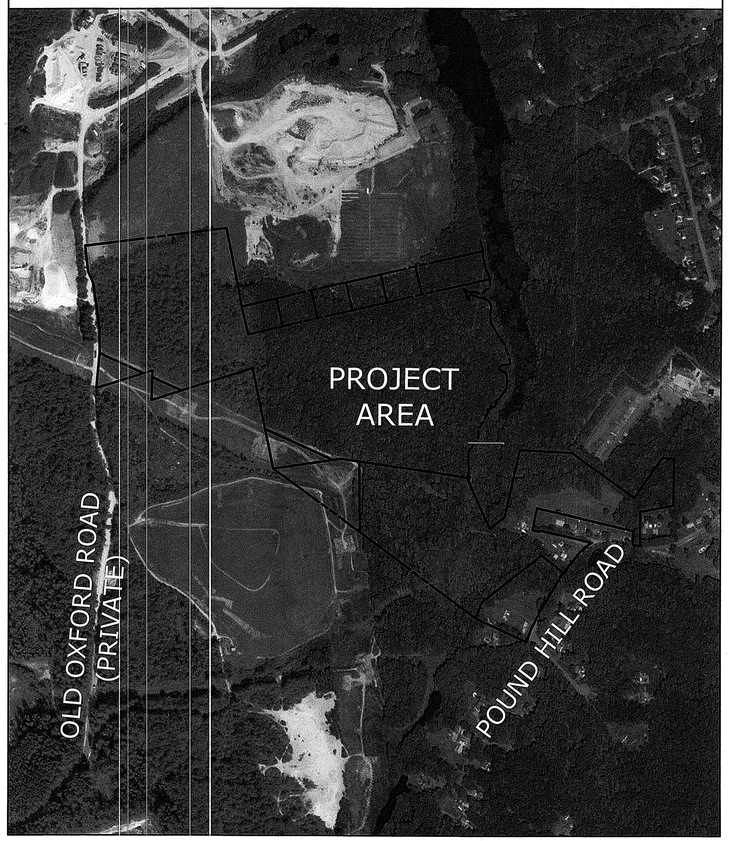
TPE KING SOLAR

OLD OXFORD ROAD

NORTH SMITHFIELD, RHODE ISLAND 02896

JUNE 5, 2019

SITE MAP



GRAPHIC SCALE
500' 250' 0 500'
SCALE IN FEET
1" = 500'

TABLE OF DRAWINGS

SITE/CIVIL ENGINEERING PLANS

DWG. NO.	TITLE
C-1	TITLE SHEET
C-1.1	NOTES & TABLES
C-2	EXISTING CONDITIONS
C-2.1	EXISTING SLOPE MAP
C-3	DEMOLITION PLAN
C-4	OVERALL SITE PLAN
C-4.1	SITE PLAN - WEST
C-4.2	SITE PLAN - EAST
C-4.3	SITE PLAN - SOUTH
C-4.4	GROUNDWATER PLUMES EXHIBIT
C-4A	ALT OVERALL SITE PLAN
C-4.1A	ALT SITE PLAN - WEST
C-4.2A	ALT SITE PLAN - EAST
C-4.3A	ALT SITE PLAN - SOUTH
C-4.4A	ALT GROUNDWATER PLUMES EXHIBIT
C-5	OVERALL GRADING PLAN
C-5.1	GRADING PLAN - WEST
C-5.2	GRADING PLAN - EAST
C-5.3	GRADING PLAN - SOUTH
C-5.4	GRADING PLAN - BASIN #1
C-5.5	GRADING PLAN - BASIN #2
C-5.6	GRADING PLAN - BASIN #3
C-5.7	BASIN 1 - PIPE RUN
C-5.8	BASIN 2 - PIPE RUN
C-5.9	BASIN 3 - PIPE RUN
C-5.10	BASIN 4 - PIPE RUN
C-5.11	UTILITY CROSSING
C-6	ACCESS DRIVE PROFILE I
C-6.1	ACCESS DRIVE PROFILE II
C-6.2	ACCESS DRIVE PROFILE III
C-7	CONSTRUCTION DETAILS
C-8	OVERALL EROSION AND SEDIMENTATION CONTROL PLAN
C-8.1	EROSION AND SEDIMENTATION CONTROL PLAN - WEST
C-8.2	EROSION AND SEDIMENTATION CONTROL PLAN - EAST
C-8.3	EROSION AND SEDIMENTATION CONTROL PLAN - SOUTH
C-8.4	EROSION AND SEDIMENTATION CONTROL DETAILS
C-8.5	EROSION AND SEDIMENTATION CONTROL DETAILS
C-9.0	LAYDOWN AREA PLAN
PGS 1-4	ALTA / NSPS LAND TITLE COMPREHENSIVE BOUNDARY SURVEY, DATA ACCUMULATION SURVEY - PREPARED BY BOYER ASSOCIATES AND TIMMONS GROUP

Environmental Management
JUL 18 2019
Office of Water Resources

Environmental Management
JUL 19 2019
Office of Water Resources

Environmental Management
JUL 18 2019
Office of Water Resources

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

TRC Engineers, Inc.
650 Suffolk Street
Suite 200
Lowell, MA 01854
Tel: (978) 970-5600
www.TRCcompanies.com

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Applicant
DEPCOM POWER®
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
TITLE SHEET

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
06/05/19

SCALE:	1" = 500'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-1

Depcom Power\Work Smithfield - King\CAD\Plot Sheets\[DPC Plots]C-1 Cover Sheet.dwg 06-11-2019 4:45:07 PM ET: Susa
XRefs:
Images: ...\...\Work\North Smithfield-01_wTIS.dwg ...\...\Work\North Smithfield-03_wEXF.dwg
F:\...TRC Imagery-Mapping\Logos\Client Logos\DP_LOGO5G.png ...\Image\TurningPoint Energy5.jpg J:\TPE Rhode Island Solar Holding\North Smithfield - King\SOURCE FILES\fema firm map\44007C0152G.png

ZONING CODE COMPLIANCE CHART

SECT/BLOCK/LOT: TOWN OF NORTH SMITHFIELD, PROVIDENCE COUNTY, RHODE ISLAND		
ZONING DISTRICT: RURAL RESIDENTIAL CONSERVATION (RRC) – FORMERLY REA		
USE: GROUND-MOUNTED SOLAR PHOTOVOLTAIC SYSTEMS FOR COMMERCIAL USE (SPECIAL-USE PERMIT REQUIRED)		
LOT AND/OR BULK REQUIREMENTS	REQUIRED	PROPOSED/PROVIDED
LOT AREA	MINIMUM 6 ACRES	104.5 ACRES
LOT FRONTAGE	300 FEET	> 300 FEET
SOLAR ARRAY SETBACKS FRONT YARD REAR YARD SIDE YARD	 100 FEET 100 FEET 100 FEET	 100 FEET 100 FEET 100 FEET
MAXIMUM HEIGHT FEET	 15 FEET	 < 15 FEET

LIST OF ADJACENT PROPERTY OWNERS

PARCEL #	OWNER NAME	PROPERTY ADDRESS	PARCEL ID	BOOK/PAGE	ACREAGE
1	WILLIAM HORTON KING	6201 SE Monticello Terrace Martin, FL 33455	007-012	78/288	64
2	WALLACE & DOROTHY STONE	55 Cidar Mill Road North Smithfield, RI 02896	007-101	241/1155	1.15
3	WALLACE & DOROTHY STONE	55 Cidar Mill Road North Smithfield, RI 02896	007-102	241/1157	1.15
4	WALLACE & DOROTHY STONE	55 Cidar Mill Road North Smithfield, RI 02896	007-103	241/1153	1.15
5	WALLACE & DOROTHY STONE	55 Cidar Mill Road North Smithfield, RI 02896	007-104	241/1152	1.15
6	WALLACE & DOROTHY STONE	55 Cidar Mill Road North Smithfield, RI 02896	007-105	241/1151	1.15
7	WALLACE & DOROTHY STONE	55 Cidar Mill Road North Smithfield, RI 02896	007-014	76/487	1.56
8	MCS ENTERPRISES LLC	9 Kendall Drive Lincoln, RI 02865	004-049	182/1018	65.55
9	MCS ENTERPRISES LLC	9 Kendall Drive Lincoln, RI 02865	004-047	182/1018	13.232
10	TUSPANI WATER COMPANY, INC	C/O Holliston Sand Slatersville, RI 02876	007-064	179/315	88
11	NARRAGANSETT ELEC CO	40 Sylvan Road Waltham, RI 02451	007-085	78/288	0.9
12	NARRAGANSETT ELEC CO	40 Sylvan Road Waltham, RI 02451	007-046	77/215	2
13	NARRAGANSETT ELEC CO	40 Sylvan Road Waltham, RI 02451	007-084	78/288	0.3
14	NARRAGANSETT ELEC CO	40 Sylvan Road Waltham, RI 02451	007-082	18/958	8.55
15	NARRAGANSETT ELEC CO C/O PROPERTIES DEPT	40 Sylvan Road Waltham, RI 02451	007-083	78/188	1.38
16	NARRAGANSETT ELEC CO C/O PROPERTIES DEPT	40 Sylvan Road Waltham, RI 02451	007-081	78/673	3.67
17	ALFRED M CARON	PO Box 869 Slatersville, RI 02876	007-023	573/095	30.03
18	TOWN OF NORTH SMITHFIELD	PO Box 248 Slatersville, RI 02876	004-447	172/716	17.15
19	CHARLES S WILSON	215 Cedar Street Warwick, RI 02818	007-068	175/881	10.41
20	ALFRED M & SANDRA M CARON	1375 Pound Hill Road North Smithfield, RI 01317	007-024	160/629	4.12
21	RICHARD M & PAMELA J COSTELLO	1270 Pound Hill Road North Smithfield, RI 02896	007-155	482/024	2.24
22	EDWARD J & DEBORAH A TE ROBERGE	1256 Pound Hill Road North Smithfield, RI 02896	007-025	189/041	2.75
23	GERAL M & NANCY ANN PERRON	1297 Pound Hill Road North Smithfield, RI 02896	007-053	527/043	1.23
24	SLATER HOMES, LLC	861 A Broad Street Providence, RI 02907	007-065	172/009	0
25	PAUL A & AUDREY L GODIN	1201 Pound Hill Road North Smithfield, RI 02896	007-022	85/1091	3.34
26	U.S. GOVERNMENT	Off Pound Hill Road North Smithfield, RI 02896	007-062	58/187	10.61
27	U.S. GOVERNMENT	861 A Broad Street Providence, RI 02907	007-066	172/09	0
28	ROCHELLE WHITE	1431 Pound Hill Road North Smithfield, RI 02896	007-070	274/250	1.03

INFORMATION PROVIDED IN THIS TABLE WAS OBTAINED FROM PUBLICALLY AVAILABLE GIS DATA. PLEASE REFER TO THE ALTA SURVEY PERFORMED FOR THIS SITE FOR ACTUAL DATA.

GENERAL NOTES:

1. THE FOLLOWING APPROVALS ARE REQUIRED FOR THIS PROJECT:
   - NATIONAL GRID;
   - RHODE ISLAND DEM - ALL APPLICABLE PERMITS;
   - SIGNED PERMANENT EASEMENT BETWEEN THE TOWN AND HOLLISTON SAND COMPANY INC. - TO THE EXTENT OXFORD ROAD IS UTILIZED;
   - SIGNED PERMANENT EASEMENT BETWEEN THE TOWN AND SLATER FARMS, LLC - TO THE EXTENT THAT HOLLISTON'S PRIVATE DRIVEWAY IS UTILIZED TO ROUTE 7 IN BURRILLVILLE;
2. ON OCTOBER 9, 2018, THE ZONING BOARD OF REVIEW (ZBR) OF THE TOWN OF NORTH SMITHFIELD GRANTED RELIEF FROM SECTIONS 5.7.5(C) AND 5.7.5(H) OF THE ZONING ORDINANCE TO CONSTRUCT A 6.22MW AC GROUND MOUNTED SOLAR PHOTOVOLTAIC ENERGY SYSTEM. THIS DECISION IS RECORDED IN THE ZONING BOARD MINUTES BOOK 7 AT PAGE 514.
3. AN "INSIGNIFICANT ALTERATION" PERMIT (PERMIT AUTHORIZATION NUMBER IS **RIPDES NO. RIR101812**) DATED APRIL 1, 2019 HAS BEEN ISSUED FOR THIS PROJECT. THE PROJECT IS THEREFORE SUBJECT TO ALL OF THE TERMS AND CONDITIONS LISTED IN THE PERMIT.
4. PRIOR TO EXCAVATION ON THIS SITE, THE CONTRACTOR SHALL CALL DIGSAFE (811).

Cut/Fill Summary

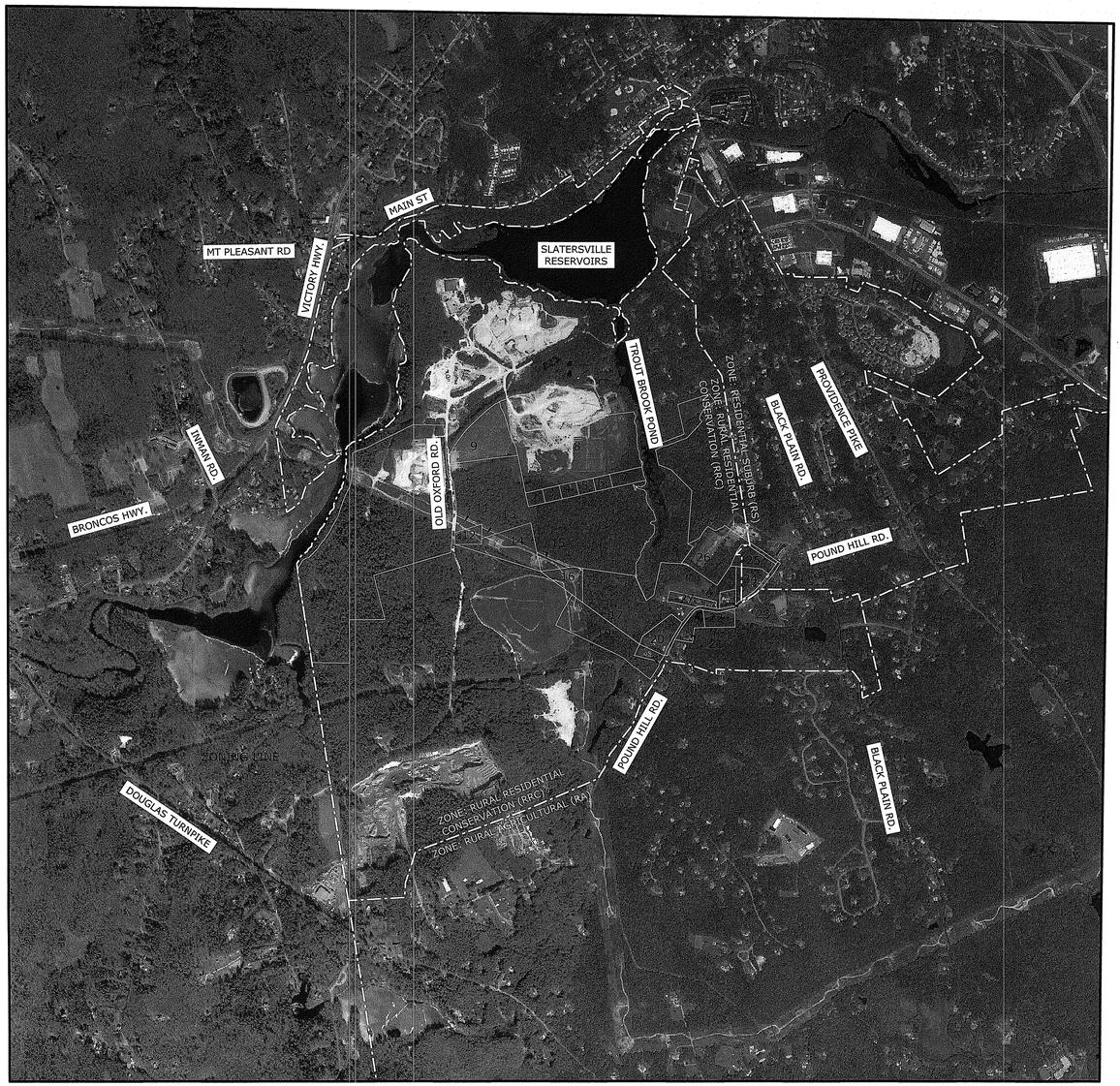
Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
VM-CF	1.000	1.100	2143522.65 Sq. Ft.	248056.21 Cu. Yd.	252217.46 Cu. Yd.	4161.25 Cu. Yd.<Fill>
Totals			2143522.65 Sq. Ft.	248056.21 Cu. Yd.	252217.46 Cu. Yd.	4161.25 Cu. Yd.<Fill>

DEVELOPER
TPE KING SOLAR HOLDINGS1, LLC
999 18TH STREET, SUITE 3000
DENVER, CO 80202
ADAM BEAL
(970) 379-3937

OPERATOR
DEPCOM POWER
9185 EAST PIMA CENTER PARKWAY
SCOTTSDALE, AZ 85258
CARL GLASS
(623) 217-6343

SURVEYOR
BOYER ASSOCIATES
1071 MAIN STREET
WARWICK, RI 02893
MARK D. BOYER, PLS
(401) 821-8872

ENGINEER
TRC ENGINEERS, INC.
650 SUFFOLK STREET, SUITE 200
LOWELL, MA
STEPHEN M. LOSS, P.E.
(717) 256-3624



LOCUS MAP

GRAPHIC SCALE
1000' 500' 0 1000'
SCALE IN FEET
1" = 1000'

REPORTS:

GEOTECHNICAL ENGINEERING REPORT - NORTH SMITHFIELD PV PROGRAM
TRC ENVIRONMENTAL CORPORATION
JUNE 27, 2018
DOUGLAS R. GENTHE, PE

STORMWATER MANAGEMENT REPORT, TPE KING SOLAR
TRC ENGINEERS, INC.
NOVEMBER 2018, LAST REVISED MAY 2019

SOIL EROSION AND SEDIMENT CONTROL PLAN FOR:
TPE KING SOLAR HOLDINGS1, LLC
TRC ENGINEERS, INC.
NOVEMBER 15, 2018, LAST REVISED JUNE 5, 2018

ECOLOGICAL EVALUATION FOR SOLAR DEVELOPMENT PROJECT
"KING SITE", POUND HILL ROAD
JULY 7, 2018
GODDARD CONSULTING
SCOTT GODDARD (508) 393-3784

TPE KING SOLAR NOISE EVALUATION
JULY 9, 2018
ACENTECH INCORPORATED
MICHAEL BAHTIARIAN, INCE BD CERT
(617) 499-8000

811 Know what's below. Call before you dig.

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 SEP 13 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

TRC
© TRC Engineers, Inc.
TRC Engineers, Inc.
650 Suffolk Street
Suite 200
Lowell, MA 01854
Tel: (978) 970-5600
www.TRCcompanies.com

Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
NOTES & TABLES

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
06/05/19

SCALE:	1" = 1000'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-1.1

X:\Projects\PowerNorth Smithfield — King\CAD\Plot Sheets\DPC Print\C-1.1 Notes & Tables.dwg 06-11-2019 4:43:25 PM By: Sean
XRefs: ...\Xrefs\North Smithfield-01_xrTB.dwg
Images: ...\Images\811-large-trans.png,FS_TRC Imagery-Mapping\Logos\Client Logos\DP_LOGO80.png ,Images\TurningPoint Energy3.jpg

100' SOLAR ARRAY SETBACK

AP 4 Lot 47 n/f MCS Enterprises LLC

APPROX. LOCATION OF EXISTING TREE LINE

APPROX. LOCATION OF EXISTING TRAVELED WAY

AP 4 Lot 49 n/f MCS Enterprises LLC

Trout Brook Pond (Open Water)

FORMERLY: OLD OXFORD RD
CURRENTLY: PRIVATE RD
QUIET TITLE C.A. NO. PC-2018-3182

AP 7 Lot 12

AP 7 Lot 85 n/f Narragansett Electric Company

AP 7 Lot 46 n/f Narragansett Electric Company

AP 7 Lot 84 n/f Narragansett Electric Company

AP 7 Lot 82 n/f Narragansett Electric Company

50' PERIMETER WETLAND

10' PROJECT SETBACK

15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 118 PG 56 SPECIAL EXCEPTION NO. 14 KING TITLE

MW-201

EXISTING UTILITY POLE

EXISTING GRAVEL ROAD

EXISTING OVERHEAD ELECTRIC LINES

EXISTING OVERHEAD ELECTRIC LINES

GP-2

MW-101

EXISTING FENCE

EXISTING GAS LINE

GP-1

GP-1R

GP-3

GP-4

GP-4R

AP 7 Lot 83 n/f Narragansett Electric Company

AP 7 Lot 81 n/f Narragansett Electric Company

10' PROJECT SETBACK

200' RIVERBANK WETLAND

15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 122 PG 244 SPECIAL EXCEPTION NO. 14 CARON TITLE

EXISTING PROPERTY LINE (TYP.)

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

50' PERIMETER WETLAND

EXISTING WETLAND CROSSING

10' PROJECT SETBACK

APPROXIMATE LOCATIONS OF EXISTING CULVERTS

TROUT BROOK CENTERLINE

AP 7 Lot 66 n/f Sister Homes, LLC

AP 7 Lot 53 n/f Gerald M. & Nancy Ann Perron

POUND HILL RD PUBLIC RIGHT-OF-WAY 50'

EXISTING UTILITY POLE #118

EXISTING RESIDENCE #1363

EXISTING UTILITY POLE #119

AP 7 Lot 28

AP 7 Lot 68 n/f Charles S. Wilson

AP 7 Lot 24

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

200' RIVERBANK WETLAND

EXISTING RESIDENCE #1375

100' SOLAR ARRAY SETBACK

AP 7 Lot 70 n/f Rochelle White

THE ANGLES AND DISTANCES FOR THE DASHED LINES ARE APPROXIMATE BASED ON A RECORDED PLAN FOR CARON'S PREDECESSOR

MW-202

MW-103B
MW-103A

CW-7A
CW-7B
CW-7C

CW-6A
CW-6B
CW-6C

GP-6
MW-104A
MW-104B

MW-308A

AP 4 Lot 447 n/f Town of North Smithfield

PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE

MW-308C

100' RIVERBANK WETLAND

EXISTING RIVER/STREAM CENTERLINE

AP 7 Lot 62 n/f United States Government

AP 7 Lot 22 n/f Sister Homes, LLC

200' RIVERBANK WETLAND

10' PROJECT SETBACK

GRAPHIC SCALE
150' 75' 0 150'
SCALE IN FEET
1" = 150'

LEGEND

EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

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 SEP 13 2019 FILE # 18-0814
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

GENERAL NOTES

1. ENVIRONMENTAL FEATURES SHOWN HERON WERE OBTAINED FROM A PRELIMINARY STUDY PERFORMED BY BOYER ASSOCIATES, LLC.
2. PROPERTY BOUNDARIES SHOWN HERON WERE OBTAINED FROM A PLAN ENTITLED "ALTA/NSPS LAND TITLE COMPREHENSIVE BOUNDARY SURVEY DATA ACCUMULATION SURVEY A.P. LOT 12, A.P. LOT 23, A.P. LOT 24, A.P. LOT 46, A.P. LOT 53, A.P. LOT 66, A.P. LOT 81, A.P. LOT 82, A.P. LOT 83, A.P. LOT 84, A.P. LOT 85 CONTAINING 104 ± ACRES, NORTH SMITHFIELD, RHODE ISLAND" PREPARED BY TIMMONS GROUP, LATEST REVISION 02/19/18.
3. PROJECT SETBACKS SHOWN HEREON ARE 10' GREATER THAN WETLAND JURISDICTIONAL EXTENTS. EXCEPT WHERE NECESSARY, THE PROPOSED LIMIT OF DISTURBANCE DOES NOT ENCROACH ON THESE PROJECT SETBACKS.

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING, 6201 SE MONTICELLO TERRACE, MARTIN, FL 33455
ALFRED M CARON, PO BOX 869, SLATERSVILLE, RI 02876
WALLACE AND DOROTHY STONE, 55 CIDAR MILL ROAD, NORTH SMITHFIELD, RI 02896

TRC Engineers, Inc.
650 Suffolk Street
Suite 200
Lowell, MA 01854
Tel: (978) 970-5600
www.TRCcompanies.com

© TRC Engineers, Inc.

Applicant:
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
EXISTING CONDITIONS

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
06/05/19

SCALE:	1" = 150'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-2

L:\Depcom Power\North Smithfield — King\CAD\Civil Sheets\GPC Sheets\GPC Sheet\C2-1 Existing Conditions.dwg By: rfu 06/05/2019 8:46:07 PM EDT

Xrefs: L:\Sheets\North Smithfield-01_xrFEB.dwg, L:\Sheets\North Smithfield-03_xrDEF.dwg
Images: P:_TRC Imagery-Mapping\Logos\Client Logos\DP_LOGO050.png, 2Images\TurningPoint Energy\3.jpg, 2.1TPE Rhode Island Solar Holdings\North Smithfield - King\SOURCE FILES\Rema firm map\44007C0150D.png

100' SOLAR ARRAY SETBACK

APPROX. LOCATION OF EXISTING TREE LINE

APPROX. LOCATION OF EXISTING TRAVELED WAY

FORMERLY: OLD OXFORD RD
CURRENTLY: PRIVATE RD
QUIET TITLE C.A. NO. 2006-1502

MW-201

EXISTING UTILITY POLE

EXISTING GRAVEL ROAD

EXISTING OVERHEAD ELECTRIC LINES

EXISTING OVERHEAD ELECTRIC LINES

GP-2

15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 118 PG 56 SPECIAL EXCEPTION NO. 14 KING TITLE

MW-101

EXISTING FENCE

EXISTING GAS LINE

GP-1

GP-1R

GP-3

GP-4

GP-4R

GP-5

MW-104A

MW-104B

CW-5A
CW-6B
CW-6C

MW-103A

MW-1038

CW-7A
CW-7B
CW-7C

200' RIVERBANK WETLAND

10' PROJECT BUFFER

15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 122 PG 244 SPECIAL EXCEPTION NO. 14 CARON TITLE

MW-101R/D

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

EXISTING WETLAND CROSSING

MW-102A

MW-103A

MW-202

MW-308A-C

PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE

100' RIVERBANK WETLAND SETBACK

EXISTING RIVER/STREAM CENTERLINE

EXISTING WETLAND

100' RIVERBANK WETLAND SETBACK

200' RIVERBANK WETLAND

10' PROJECT BUFFER

MW-305A

335.00'
S 79°39'34" W

N 77°29'50" W
116.46'

S 61°11'08" W
38.00'

N 85°57'09" W
74.90'

POUND HILL RD
PUBLIC RIGHT-OF-WAY 50'

EXISTING UTILITY POLE #118

EXISTING RESIDENCE #1363

EXISTING UTILITY POLE #119

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

200' RIVERBANK WETLAND

EXISTING RESIDENCE #1375

100' SOLAR ARRAY SETBACK

THE ANGLES AND DISTANCES FOR THE DASHED LINES ARE APPROXIMATE BASED ON A RECORDED PLAN FOR CARON'S PREDECESSOR

Kindly be advised that this Permit is not enuivalent 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 SEP 13 2019 FILE # 8034
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

GRAPHIC SCALE
150' 75' 0 150'
SCALE IN FEET
1" = 150'

N

LEGEND

EXISTING FEATURES

- EDGE OF PAVED BITUMINOUS SURFACE
- EDGE OF GRAVEL OR CRUSHED STONE SURFACE
- EDGE OF ROADWAY SHOULDER
- PROPERTY BOUNDARY LINE
- IRON PIN OR PIPE
- CONCRETE MONUMENT
- ADJOINING PROPERTY BOUNDARY LINE
- EASEMENT LINE
- MINIMUM BUILDING SETBACK LINE
- ZONING DISTRICT BOUNDARY LINE
- EDGE OF EXISTING SURFACE WATERCOURSE
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- SPOT ELEVATION
- BUILDING
- OE OVERHEAD ELECTRIC LINES
- UTILITY POLE
- GUY WIRE
- DRAINAGE PIPE
- DRAINAGE INLET
- TREELINE
- WALL
- WETLAND
- FENCE
- SIGN
- MW MONITORING WELL
- 15% - 100% SLOPES

SURVEY NOTES

1. ENVIRONMENTAL FEATURES SHOWN HERON WERE OBTAINED FROM A PRELIMINARY STUDY PERFORMED BY BOYER ASSOCIATES, LLC.
2. PROPERTY BOUNDARIES SHOWN HERON WERE OBTAINED FROM A PLAN ENTITLED "ALTA/NSPS LAND TITLE COMPREHENSIVE BOUNDARY SURVEY DATA ACCUMULATION SURVEY A.P. LOT 12, A.P. LOT 23, A.P. LOT 24, A.P. LOT 46, A.P. LOT 53, A.P. LOT 66, A.P. LOT 81, A.P. LOT 82, A.P. LOT 83, A.P. LOT 84, A.P. LOT 85 CONTAINING 104 ± ACRES, NORTH SMITHFIELD, RHODE ISLAND" PREPARED BY TIMMONS GROUP, LATEST REVISION 02/19/18.
3. ENVIRONMENTAL SETBACKS SHOWN HEREIN ARE 10' GREATER THAN STATE REQUIREMENTS.

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

TRC
TRC Engineers, Inc.
650 Suffolk Street
Suite 200
Lowell, MA 01854
Tel: (978) 970-5600
www.TRCcompanies.com

© TRC Engineers, Inc.

Applicant

DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

EXISTING SLOPE MAP

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 150'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-2.1

06/05/19

Xrefs: J:\Dwd\North Smithfield\41_yr35.dwg, J:\Dwd\North Smithfield\43_yr50f.dwg
Images: P:_TRC Imagery-Mapping\Logos\Client Logos\DP_LOGO.BG.png , Images\TurningPoint Energy3.jpg ,I:\TPE Rhode Island Solar Holdings\North Smithfield - King\SOURCE FILES\fema firm map\44007C0150G.png

C:\Projects_Power Projects\North Smithfield - King\CAD\Plot Sheets\[SPC Plans\C2-1 Existing Slope Map.dwg 05-31-2019 3:48:59 PM EDT Susie

100' SOLAR ARRAY SETBACK

100' SOLAR ARRAY SETBACK

APPROX. LOCATION OF EXISTING TRAVELED WAY

20' CLEARING

FORMERLY: OLD OXFORD RD - PRIVATE RD - CURRENTLY: C.A. NO. PC06-1503 - QUIET TITLE

EXISTING VEGETATION BUFFER (25' MIN WHERE POSSIBLE, TO REMAIN IN PLACE)

PROPOSED TREE LINE

15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 118 PG 56 SPECIAL EXCEPTION NO. 14 KING TITLE

EXISTING UTILITY POLE

EXISTING GRAVEL ROAD

EXISTING OVERHEAD ELECTRIC LINES

EXISTING OVERHEAD ELECTRIC LINES

EXISTING FENCE

EXISTING GAS LINE

15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 122 PG 244 SPECIAL EXCEPTION NO. 14 CARON TITLE

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

EXISTING WETLAND CROSSING

200' RIVERBANK WETLAND

10' PROJECT BUFFER

100' SOLAR ARRAY SETBACK

200' RIVERBANK WETLAND

10' PROJECT BUFFER

TROUT BROOK POND

ZONE "A"

PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE

100' RIVERBANK WETLAND SETBACK

EXISTING RIVER/STREAM CENTERLINE

EXISTING WETLAND

TROUT BROOK CENTERLINE

POUND HILL RD
PUBLIC RIGHT-OF-WAY 50'

N 77°23'30" W 118.46'

S 61°17'06" W 38.00'

N 85°57'09" W 74.80'

235.00'

235.00'
S 79°36'34" W

EXISTING UTILITY POLE #118

EXISTING RESIDENCE #1363

EXISTING UTILITY POLE #119

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

EXISTING RESIDENCE #1375

THE ANGLES AND DISTANCES FOR THE DASHED LINES ARE APPROXIMATE BASED ON A RECORDED PLAN FOR CARON'S PREDECESSOR

MW-101
GP-1
GP-1R
GP-2
GP-3
GP-4
GP-4R
GP-6
MW-101A
MW-102A
MW-103A
MW-103B
MW-104A
MW-104B
MW-202
MW-302A-S
MW-302A-I
MW-308A-C
CW-6A
CW-6B
CW-6C
CW-7A
CW-7B
CW-7C

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 PER CFR 7 IN THE LETTER OF APPROVAL
DATE: SEP 13 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

GRAPHIC SCALE
150' 75' 0 150'
SCALE IN FEET
1" = 150'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA

LEGEND — DEMOLITION

- TBD — DENOTES A FEATURE TO BE DEMOLISHED
- TBR — DENOTES A FEATURE TO BE REMOVED AND RELOCATED
- EX. VEGETATION BUFFER
- EX. TREE REMOVAL

DEMOLITION NOTE

1. ALL FEATURES IN BOLD PRINT AND SO LABELED SHALL BE DEMOLISHED, REMOVED, OR RELOCATED AS INDICATED.

NOTE:

1. PROPOSED TREE LINE SHOWN FOR GRAPHICAL CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINES SHOWN ON THE PLANS.
2. CONTRACTOR TO ENSURE NO DISRUPTION TO MONITORING WELLS DURING CONSTRUCTION ACTIVITIES.

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

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650 Suffolk Street
Suite 200
Lowell, MA 01854
Tel: (978) 970-5600
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Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

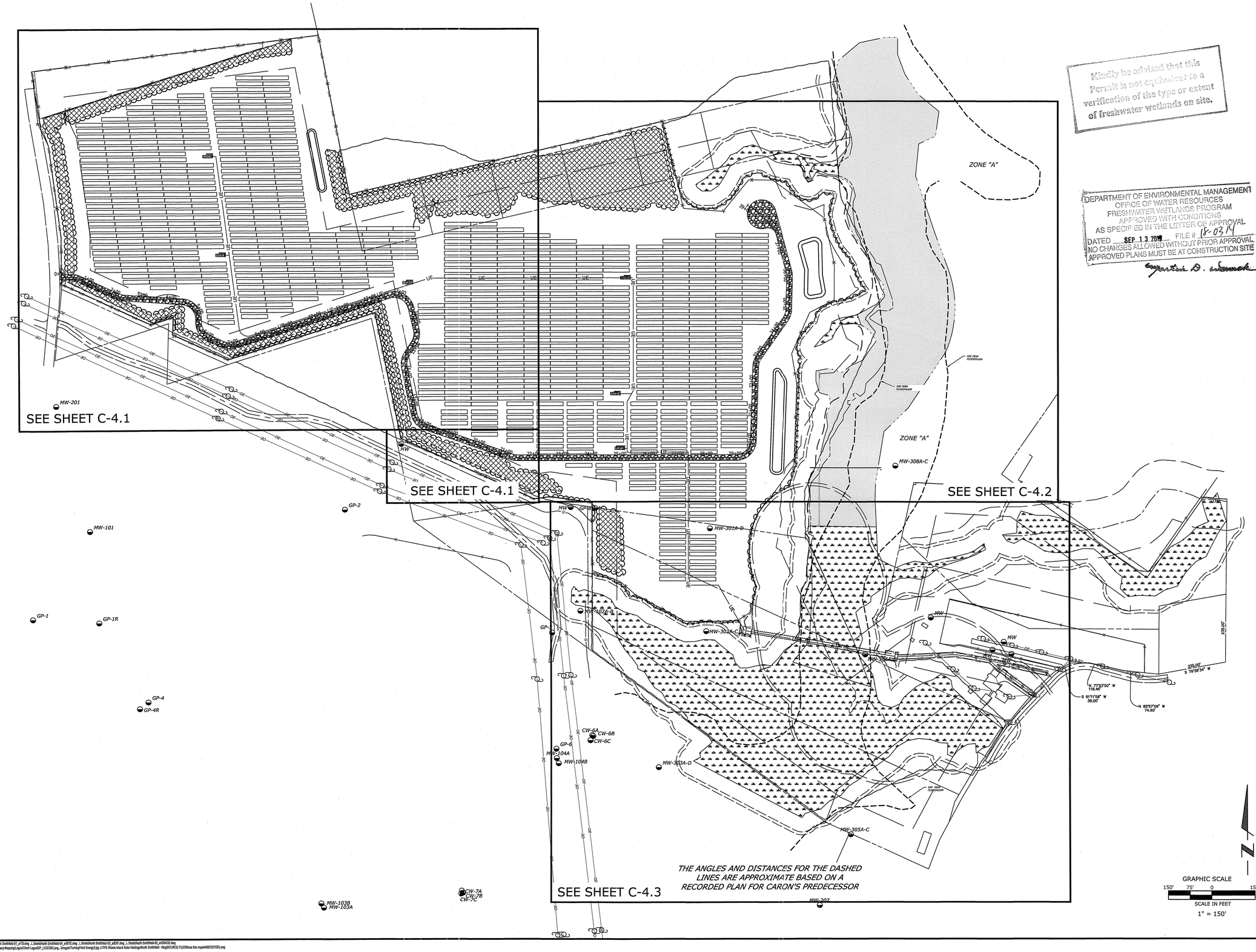
DRAWING TITLE:
DEMOLITION PLAN

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 150'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000

DRAWING NO.:
C-3

XRefs: I:\Shell\North Smithfield-93_etDXF.dwg, I:\Shell\North Smithfield-521_xrTB.dwg, I:\Shell\North Smithfield-94_xrBTE.dwg
Images: J:\TPE Rhode Island Solar Holding\North Smithfield - Kbrp\SOURCE FILES\Items frm map\4400\72d1820.png P1_TRC Imagery-Mapping\Logos\Client Logos\DP_LOGO350.png , Images\TurningPoint Energy3.jpg



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 SEP 13 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Christine D. Lehmann

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- INDEX CONTOUR LINE
- INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

NOTE:
1. PROPOSED TREE LINE SHOWN FOR CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINE.

2. CONTRACTOR TO ENSURE NO DISRUPTION TO MONITORING WELLS DURING CONSTRUCTION ACTIVITIES.

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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Applicant

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9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

OVERALL SITE PLAN

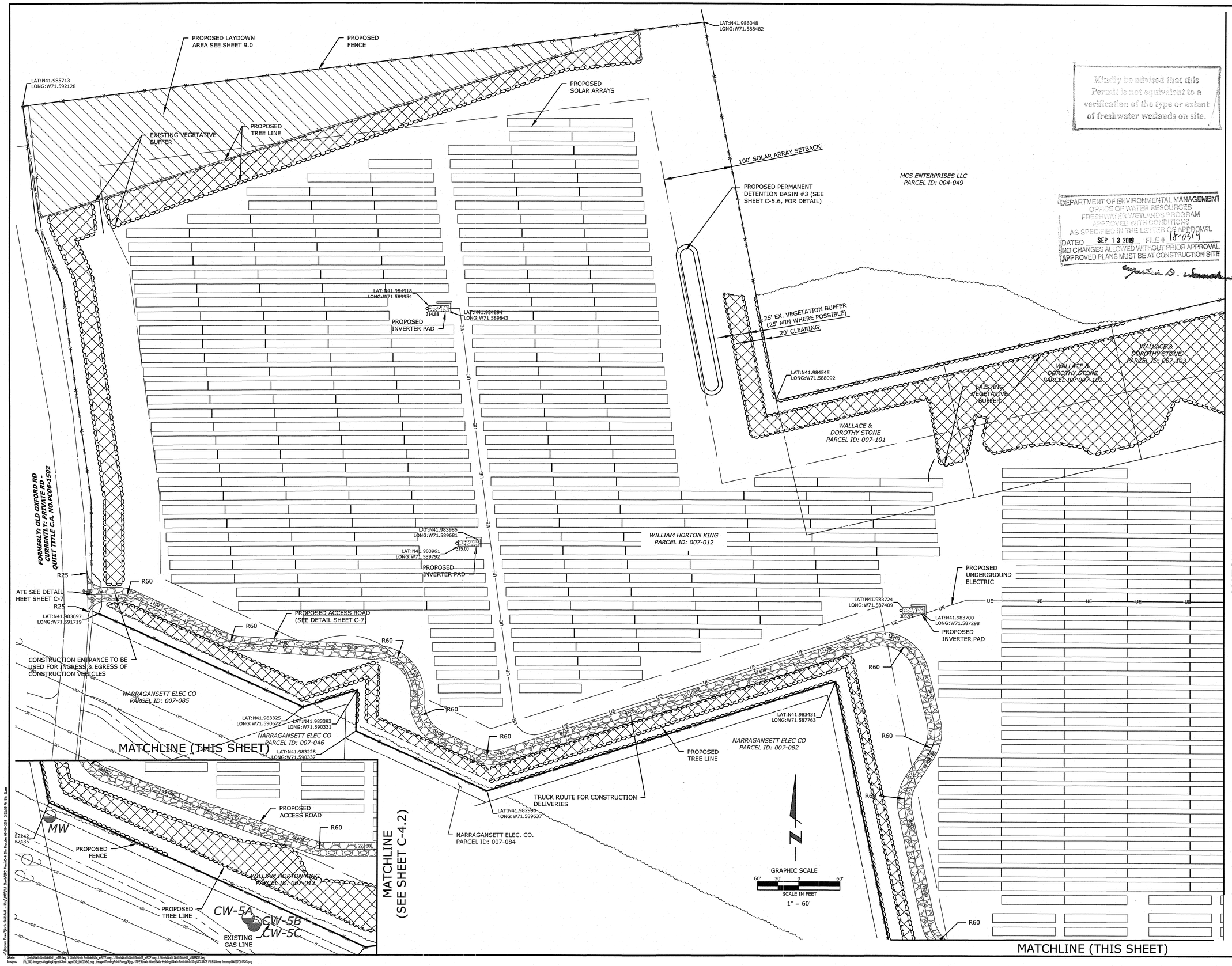
STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 150'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000

DRAWING NO.:
C-4

06/05/19

J:\Depcom Power\North Smithfield - Kingstown\GIS\Plans\Sheets\GPC Plans\C-4 Site Plan.dwg, 6/5/2019 3:53:31 PM, EST, Scott
XRefs: ..\..\North Smithfield\01_xrFB.dwg ..\..\North Smithfield-M_xrSITE.dwg ..\..\North Smithfield\02_xrDOF.dwg ..\..\North Smithfield-02_xrGRADE.dwg
Images: P:\...TRC Imagery\Mapping\Logos\Client Logos\DP_LOGO3D.png ..\Images\TurningPoint Energy\Ep.png ..\TYPE Rhode Island Solar Holdings\North Smithfield - King\SOURCE FILES\ftma fms map\44087C0192G.png



LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- INDEX CONTOUR LINE
- INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

NOTE:
1. PROPOSED TREE LINE SHOWN FOR CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINE.

2. CONTRACTOR TO ENSURE NO DISRUPTION TO MONITORING WELLS DURING CONSTRUCTION ACTIVITIES.

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
SITE PLAN - WEST

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 60'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-4.1

06/05/19

XRefs Images: ...\Work\North Smithfield-01_wTB.dwg, ...\Work\North Smithfield-04_wSITE.dwg, ...\Work\North Smithfield-03_wDXF.dwg, ...\Work\North Smithfield-05_wGRADE.dwg
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MCS ENTERPRISES LLC
PARCEL ID: 004-049

PROPOSED FENCE

LAT:N41.985234
LONG:W71.584096

50' PERIMETER WETLAND

10' PROJECT BUFFER

60'

WALLACE & DOROTHY STONE
PARCEL ID: 007-014

100' SOLAR ARRAY SETBACK

WALLACE & DOROTHY STONE
PARCEL ID: 007-105

EXISTING VEGETATIVE BUFFER

WALLACE & DOROTHY STONE
PARCEL ID: 007-104

WALLACE & DOROTHY STONE
PARCEL ID: 007-103

Trout Brook Pond
(Open Water)

ZONE "A"

LAT:N41.984680
LONG:W71.582958

LAT:N41.984679
LONG:W71.582695

PROPOSED TREE LINE

LAT:N41.984410
LONG:W71.583831

LAT:N41.984382
LONG:W71.583841

R30

LAT:N41.984021
LONG:W71.582036

PROPOSED TREE LINE

PROPOSED FENCE

PROPOSED 100' DIA. CUL-DE-SAC TURN AROUND

PROPOSED SOLAR ARRAYS

LAT:N41.983767
LONG:W71.584631

LAT:N41.983742
LONG:W71.584521

PROPOSED PERMANENT DETENTION BASIN #1 (SEE SHEET C-5.4, FOR DETAIL)

LAT:N41.983838
LONG:W71.581988

R60

LAT:N41.983546
LONG:W71.581909

LAT:N41.983426
LONG:W71.582222

R60

WILLIAM HORTON KING
PARCEL ID: 007-012

60'

10' PROJECT BUFFER

LAT:N41.983038
LONG:W71.582452

PROPOSED ACCESS ROAD

R60

50' PERIMETER WETLAND

LAT:N41.982752
LONG:W71.582386

100 YEAR FLOODPLAIN

100 YEAR FLOODPLAIN

LAT:N41.982671
LONG:W71.584762

LAT:N41.982647
LONG:W71.584652

PROPOSED INVERTER PAD (TYP)

PROPOSED UNDERGROUND ELECTRIC

LAT:N41.982155
LONG:W71.584707

LAT:N41.982130
LONG:W71.584596

R60

PROPOSED PERMANENT DETENTION BASIN #2 (SEE SHEET C-5.5, FOR DETAIL)

TOWN OF NORTH SMITHFIELD
PARCEL ID: 004-447

MW-308A-C

LAT:N41.981998
LONG:W71.582423

PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE

100' SOLAR ARRAY SETBACK

10' PROJECT BUFFER

200' RIVERBANK WETLAND

PROPOSED TREE LINE

MATCHLINE (SEE SHEET C-4.1)

MATCHLINE (SEE SHEET C-4.3)

GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

N

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 13 2019 FILE # 18-0814
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Kindly be advised that this [illegible] is not conclusive to a verification of the type or extent of freshwater wetlands on site.

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- INDEX CONTOUR LINE
- INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

NOTE:
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2. CONTRACTOR TO ENSURE NO DISRUPTION TO MONITORING WELLS DURING CONSTRUCTION ACTIVITIES.

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
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Applicant

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SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
SITE PLAN - EAST

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
06/05/19

SCALE:	1" = 60'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-4.2

J:\Depcom Power\Work Smithfield - Reg\Civil\Dist Sheets\PDC Files\C-4 Site Plan.dwg 06-11-2019 3:53:16 PM ET Blake

XRefs: ...\..\Work\North Smithfield\01_wTitle.dwg; ...\..\Work\North Smithfield\04_wSITE.dwg; ...\..\Work\North Smithfield\05_wDOP.dwg; ...\..\Work\North Smithfield\06_wGRADE.dwg
Images: F1_TRC Imagery-Mapping&Layout\Client Logos\DP_LOGO60.jpg; ...\Images\TurningPoint Energy[3].jpg; 2129] Rhode Island Solar Holdings\North Smithfield - Reg\SOURCE FILES\dema firm map\44000FC01020.jpg

MATCHLINE (SEE SHEET C-4.3)

MW GP-8
LAT:N41.981630
LONG:W71.584997
EXISTING VEGETATIVE BUFFER
EXISTING GAS LINE
100' SOLAR ARRAY SETBACK
LAT:N41.980983
LONG:W71.584993
LAT:N41.980880
LONG:W71.584637
PROPOSED FENCE
15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 122 PG 244 SPECIAL EXCEPTION NO. 14 CARON TITLE
MW-1(
10' PROJECT BUFFER
LAT:N41.980507
LONG:W71.583817
ALFRED M CARON PARCEL ID: 007-023
100' SOLAR ARRAY SETBACK
MW-302A-C
EXISTING WETLAND
EXISTING OVERHEAD ELECTRIC
CW-6A CW-6B CW-6C
GP-6
W-104A
MW-104B
MW-303A-D
MW-301A-D
WILLIAM HORTON KING PARCEL ID: 007-012
PROPOSED TREE LINE
100' SOLAR ARRAY SETBACK
PROPOSED RECEIVING PIT
EXISTING WETLAND CROSSING
200' RIVERBANK WETLAND
10' PROJECT BUFFER
PROPOSED UNDERGROUND ELECTRIC (BORE UNDER WETLAND AT EXISTING CROSSING)
TROUT BROOK CENTERLINE
CHARLES S WILSON PARCEL ID: 007-068
MW-305A-C
LAT:N41.978163
LONG:W71.582672
ALFRED M & SANDRA M CARON PARCEL ID: 007-024
ROCHELLE WHITE PARCEL ID: 007-070
THE ANGLES AND DISTANCES FOR THE DASHED LINES ARE APPROXIMATE BASED ON A RECORDED PLAN FOR CARON'S PREDECESSOR
PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE
FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE
100' RIVERBANK WETLAND
EXISTING RIVER/STREAM CENTERLINE
100' RIVERBANK WETLAND
100' SOLAR ARRAY SETBACK
200' RIVERBANK WETLAND
10' PROJECT BUFFER
50' PERIMETER WETLAND
10' PROJECT BUFFER
POLE FOR CUSTOMER RECLOSER
POCC CUSTOMER OWNED MANUAL GENERATOR DISCONNECTING MEANS (GANG OPERATED, UTILITY LOCKABLE, 24X7 ACCESSIBLE, GROUNDABLE)
U.S. GOVERNMENT PARCEL ID: 007-066
PROPOSED BORING PIT
POLE FOR UTILITY METER ACCESSIBLE 24X7
POLE FOR UTILITY RECLOSER ACCESSIBLE 24X7
POLE FOR UTILITY DISCONNECT SWITCH ACCESSIBLE 24X7 LOCKABLE
POINT OF INTERCONNECTION
POUND HILL RD PUBLIC RIGHT-OF-WAY 50'
EXISTING RESIDENCE #1363
EXISTING OVERHEAD ELECTRIC
100 YEAR FLOODPLAIN
FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE
200' RIVERBANK WETLAND
10' PROJECT BUFFER
Kindly be advised that this plan is not equivalent to a verification of the type or extent of freshwater wetlands on site.
RICHARD M & PAMELA J COSTELLO PARCEL ID: 007-155
EXISTING RESIDENCE #1375
LAT:N41.978163
LONG:W71.580712

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 13 2019 FILE # 18-0814
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- INDEX CONTOUR LINE
- INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

NOTE:
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2. CONTRACTOR TO ENSURE NO DISRUPTION TO MONITORING WELLS DURING CONSTRUCTION ACTIVITIES.

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
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Applicant
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9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
SITE PLAN - SOUTH

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
06/05/19

SCALE:	1" = 60'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000

DRAWING NO.:
C-4.3

XRefs: ...\Work\North Smithfield\4-01_xrTB.dwg; ...\Work\North Smithfield\4-04_xrSITE.dwg; ...\Work\North Smithfield\4-02_xrDIF.dwg; ...\Work\North Smithfield\4-05_xrGRADE.dwg
Images: FS_TRC Imagery-Mapping\Logos\Client Logos\DP_LOGO60.png; ...Images\TurningPoint Energy3.jpg 215'E Rhode Island Solar Holdings\North Smithfield - Kling\SOURCE FILES\tems frm maps\44003FCM1533.jpg

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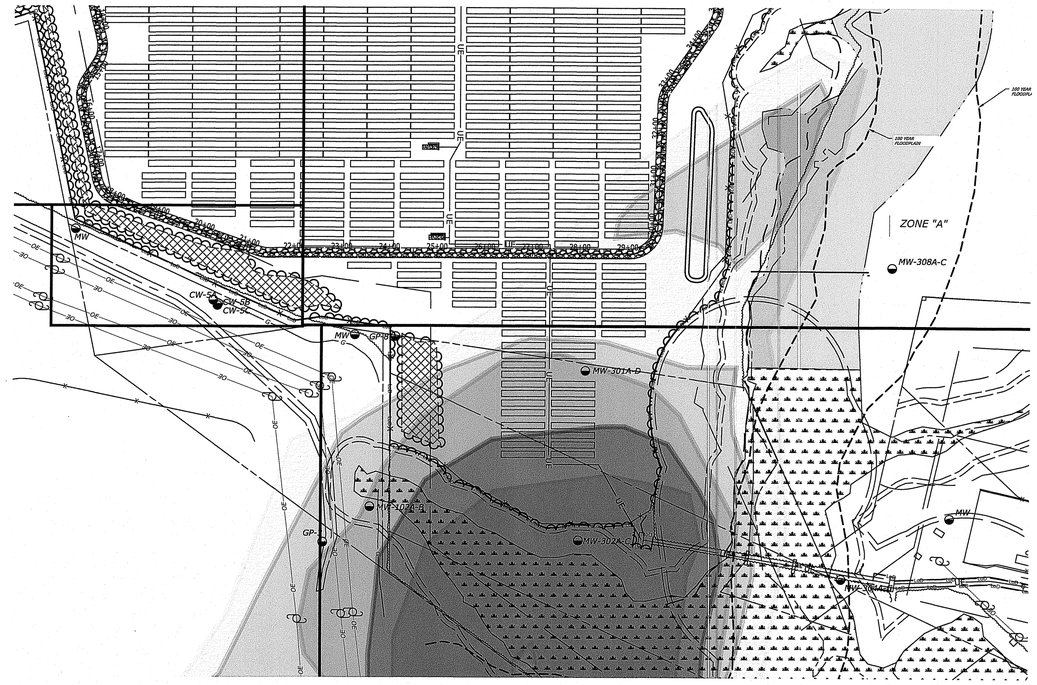
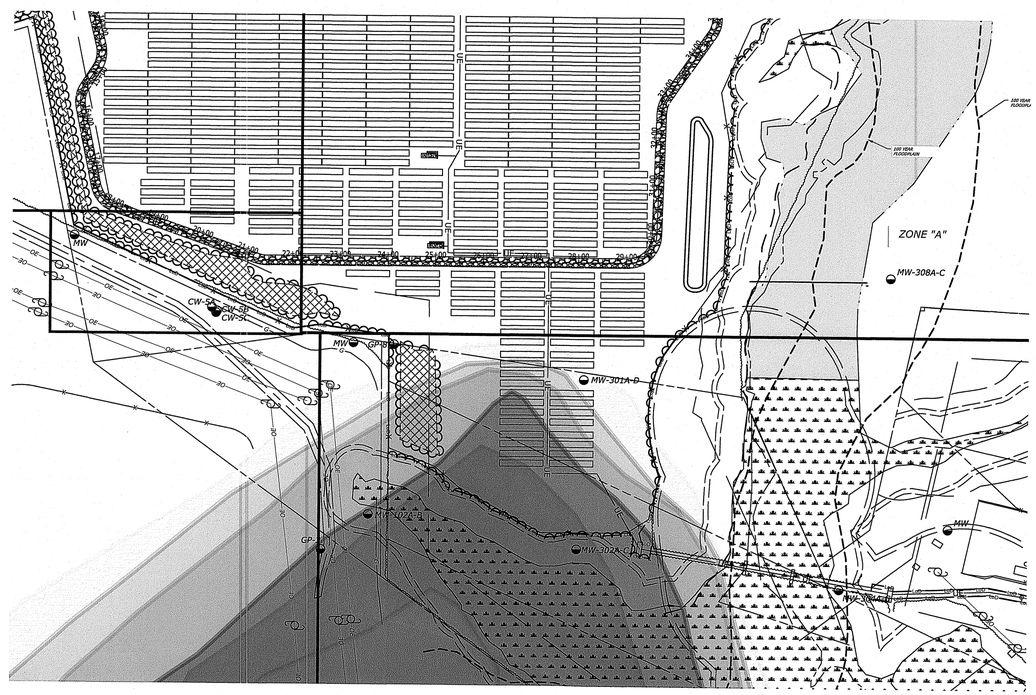
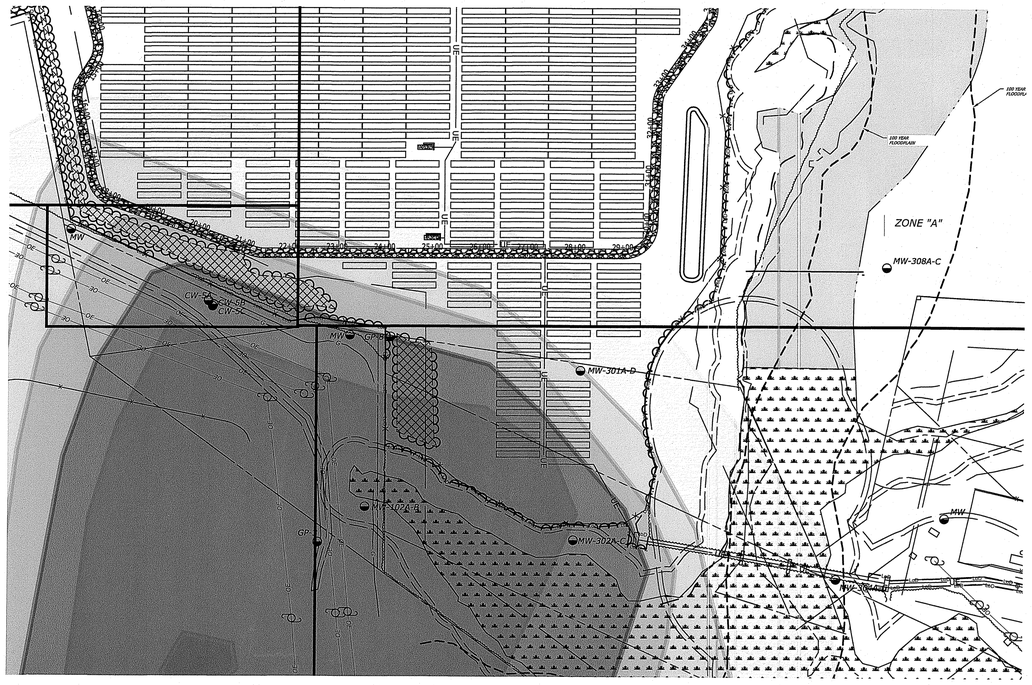


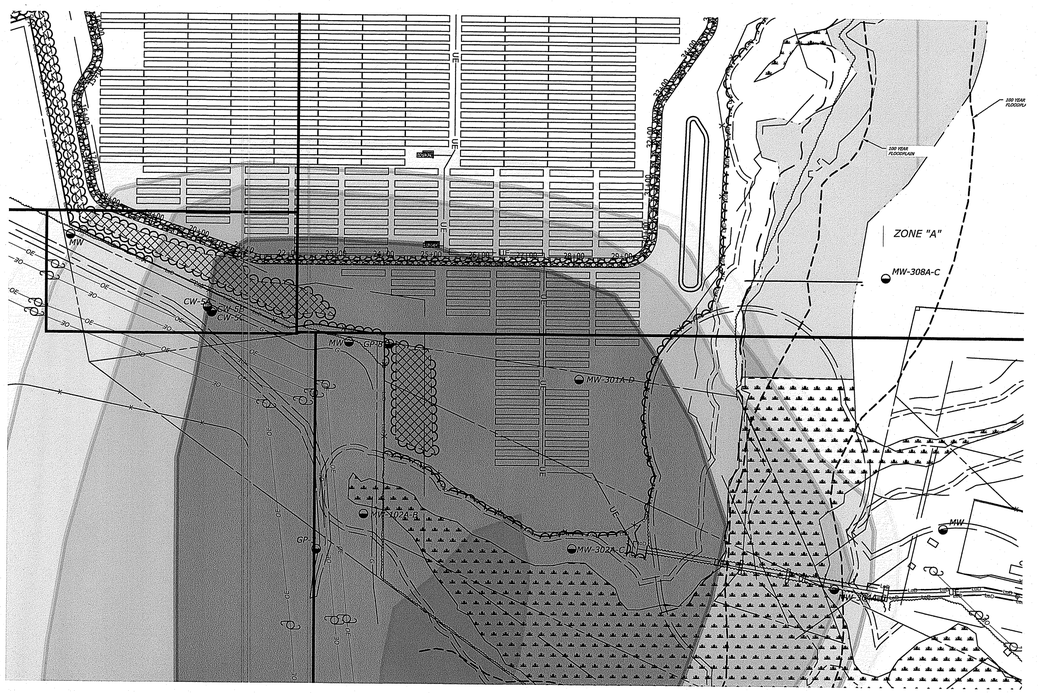
SHALLOW OVERBURDEN



INTERMEDIATE OVERBURDEN



DEEP OVERBUDEN



BEDROCK OVERBURDEN

LEGEND

VOC ISOPETHS PLUME

- VOC ISOPETHS PLUME 0.3(UG/L)
- VOC ISOPETHS PLUME 3(UG/L)
- VOC ISOPETHS PLUME 10(UG/L)
- VOC ISOPETHS PLUME 50(UG/L)
- VOC ISOPETHS PLUME 100(UG/L)
- VOC ISOPETHS PLUME 300(UG/L)

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 SEP 19 2019 FILE # 18-0814
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NOTE:
1. PROPOSED TREE LINE SHOWN FOR CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINE.

2. CONTRACTOR TO ENSURE NO DISRUPTION TO MONITORING WELLS DURING CONSTRUCTION ACTIVITIES.

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CDAR MILL ROAD
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Applicant
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9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
GROUNDWATER PLUMES EXHIBIT

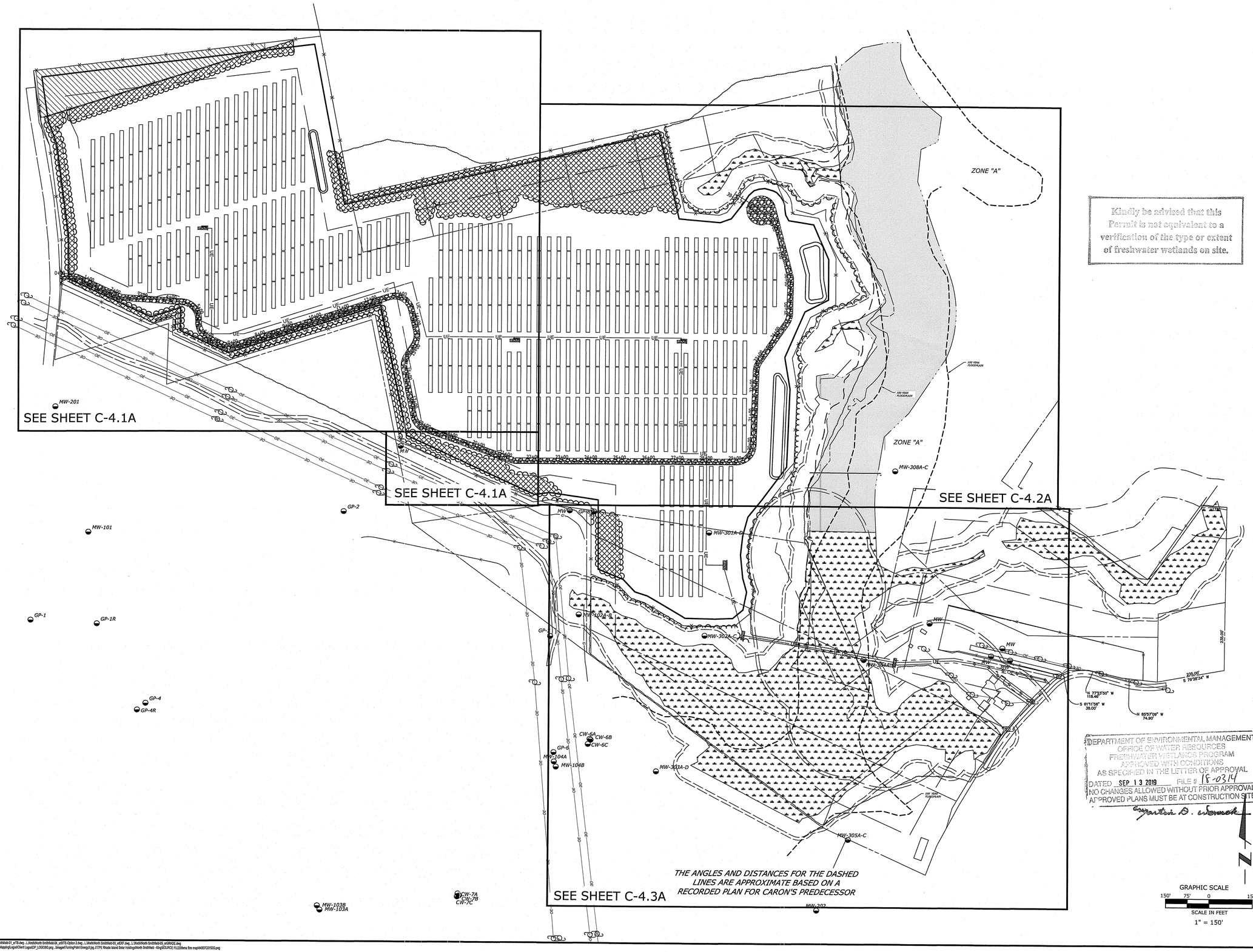
GRAPHIC SCALE
150' 75' 0 150'
SCALE IN FEET
1" = 150'

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
06/05/19

SCALE:	1" = 150'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000

DRAWING NO.:
C-4.4

XRefs:
Images:



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

NOTE:
PROPOSED TREE LINE SHOWN FOR CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINE.

THE ANGLES AND DISTANCES FOR THE DASHED LINES ARE APPROXIMATE BASED ON A RECORDED PLAN FOR CARON'S PREDECESSOR

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 13 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Christine D. Udemark

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- INDEX CONTOUR LINE
- INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

TRC
TRC Engineers, Inc.
650 Suffolk Street
Suite 200
Lowell, MA 01854
Tel: (978) 970-5600
www.TRCcompanies.com
© TRC Engineers, Inc.

Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

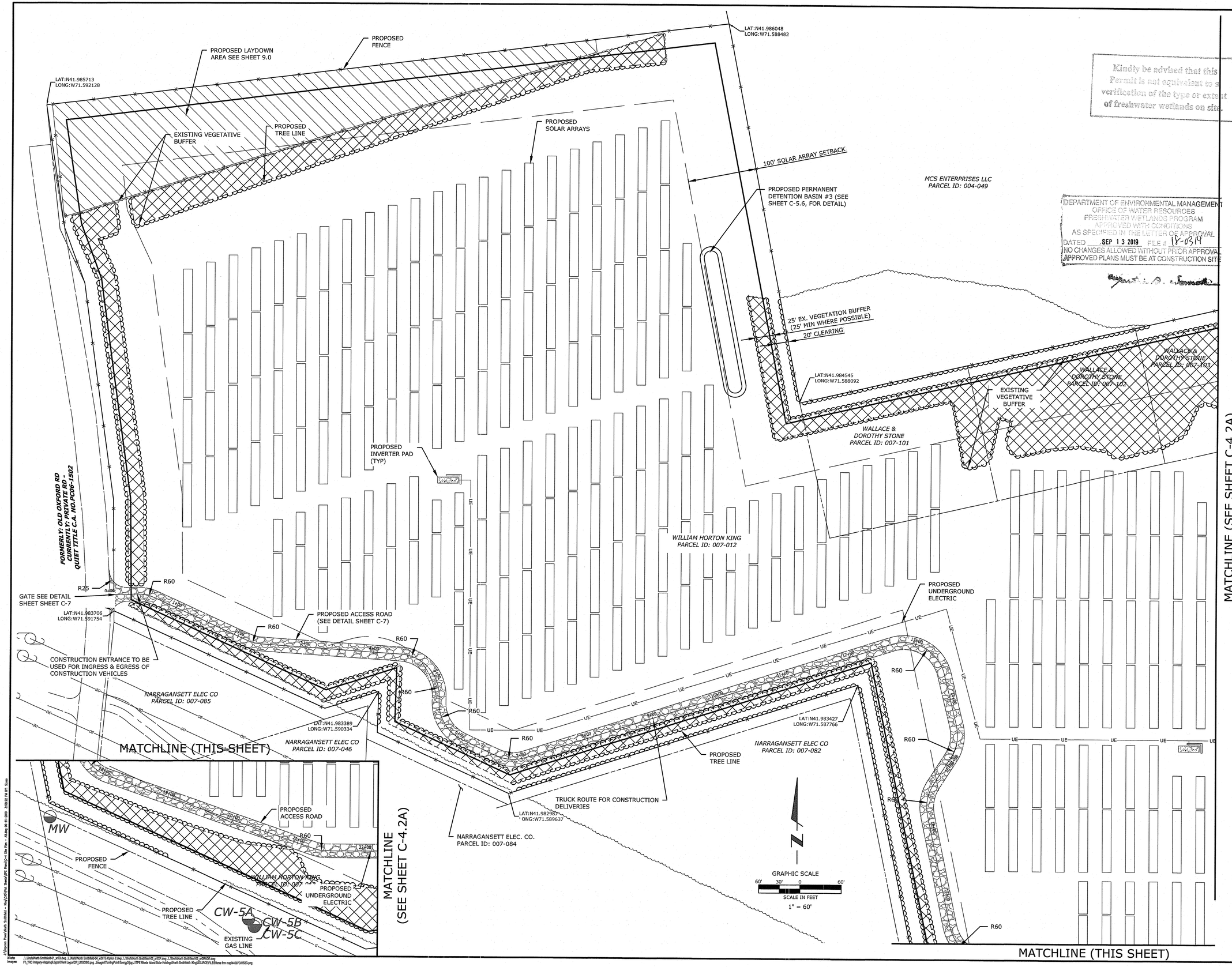
Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
OVERALL ALT SITE PLAN

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
06/05/19

SCALE:	1" = 150'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-4A

XRefs: ...\Work\North Smithfield-01_xrTB.dwg ...\Work\North Smithfield-04_xrSITE-Option 2.dwg ...\Work\North Smithfield-03_xrDIV.dwg ...\Work\North Smithfield-05_xrSRVEY.dwg
Images: F1_TRC Imagery-MappingLogoCSent1.tgaxsDP_LOGOS.jpg ...\Images\TurningPoint Energy3.jpg J:\TPE Rhode Island Solar Visioning\North Smithfield - Klug\SOURCE FILES\Sitess frm msp\4400\CH1\SDI.png



LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- INDEX CONTOUR LINE
- INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

NOTE:
PROPOSED TREE LINE SHOWN FOR CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINE.

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
ALT SITE PLAN - WEST

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 60'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-4.1A

XRefs: ...\1Work\North Smithfield\01_xrf\Title_1.1Work\North Smithfield\04_xrf\ITE Option 2.dwg ..\1Work\North Smithfield\05_xrf\GV.dwg ..\1Work\North Smithfield\06_xrf\GRADE.dwg
Images: P3_TRC Imagery-Mapping\Logos\Client Logos\DP_LOGO060.png ..\Image\Turning Point Energy3.jpg J:\ITPE Rhode Island Solar Holdings\North Smithfield - Klug\SOURCE FILES\forma firm map\4400\TCR1520.png

A:\Depcom Power\North Smithfield - Klug\CAD\Plot Sheets\GPS Plans\C-4 Site Plan — 60 Scale.dwg 06-11-2019 3:09:33 PM EDT Eliza

MCS ENTERPRISES LLC
PARCEL ID: 004-049

PROPOSED FENCE

LAT:N41.985234
LONG:W71.584096

50' PERIMETER WETLAND

10' PROJECT BUFFER

60'

WALLACE & DOROTHY STONE
PARCEL ID: 007-014

WALLACE & DOROTHY STONE
PARCEL ID: 007-105

100' SOLAR ARRAY SETBACK

EXISTING VEGETATIVE BUFFER

WALLACE & DOROTHY STONE
PARCEL ID: 007-104

WALLACE & DOROTHY STONE
PARCEL ID: 007-103

PROPOSED TREE LINE

PROPOSED FENCE

PROPOSED 100' DIA. CUL-DE-SAC TURN AROUND

R30

PROPOSED SOLAR ARRAYS

PROPOSED TREE LINE

Trout Brook Pond
(Open Water)

ZONE "A"

PROPOSED PERMANENT DETENTION BASIN #1
(SEE SHEET C-5.4, FOR DETAIL)

R60

R60

WILLIAM HORTON KING
PARCEL ID: 007-012

PROPOSED INVERTER PAD (TYP)

10' PROJECT BUFFER

PROPOSED ACCESS ROAD

R60

50' PERIMETER WETLAND

60'

100 YEAR FLOODPLAIN

100 YEAR FLOODPLAIN

PROPOSED PERMANENT DETENTION BASIN #2
(SEE SHEET C-5.5, FOR DETAIL)

TOWN OF NORTH SMITHFIELD
PARCEL ID: 004-447

MW-308A-C

PERPETUAL SAFETY EASEMENT
HALE TO U.S.A. LE BK 58
PG 170-172 SPECIAL
EXCEPTION NO. 13 CARON
TITLE

ZONE "A"

R60

PROPOSED UNDERGROUND ELECTRIC

100' SOLAR ARRAY SETBACK

10' PROJECT BUFFER

PROPOSED TREE LINE

LAT:N41.981628
LONG:W71.585001

200' RIVERBANK WETLAND

MATCHLINE (SEE SHEET C-4.2A)

MATCHLINE (SEE SHEET C-4.1A)

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 13 2019 FILE # 18-0814
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

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

N

GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- INDEX CONTOUR LINE
- INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

NOTE:
PROPOSED TREE LINE SHOWN FOR CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINE.

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
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Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
ALT SITE PLAN - EAST

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
06/05/19

SCALE:	1" = 60'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000

DRAWING NO.:
C-4.2A

XRefs:
Images:

MATCHLINE (SEE SHEET C-4.2A)

MW GP-8
EXISTING VEGETATIVE BUFFER
EXISTING GAS LINE
MW-301A-D
WILLIAM HORTON KING
PARCEL ID: 007-012
22'
100' SOLAR ARRAY SETBACK
PROPOSED FENCE
PROPOSED UNDERGROUND ELECTRIC
15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 122 PG 244 SPECIAL EXCEPTION NO. 14 CARON TITLE
MW-1C
10' PROJECT BUFFER
50' PERIMETER WETLAND
ALFRED M CARON
PARCEL ID: 007-023
MW-302A-C
100' SOLAR ARRAY SETBACK
PROPOSED TREE LINE
PROPOSED RECEIVING PIT
60'
30'
40'
200' RIVERBANK WETLAND
10' PROJECT BUFFER
PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE
FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE
EXISTING WETLAND CROSSING
PROPOSED UNDERGROUND ELECTRIC (BORE UNDER WETLAND AT EXISTING CROSSING)
MW-304A-C
40'
100' RIVERBANK WETLAND
EXISTING RIVER/STREAM CENTERLINE
100' RIVERBANK WETLAND
100' SOLAR ARRAY SETBACK
200' RIVERBANK WETLAND
10' PROJECT BUFFER
50' PERIMETER WETLAND
10' PROJECT BUFFER
MW
U.S. GOVERNMENT
PARCEL ID: 007-066
POLE FOR CUSTOMER RECLOSER
POCC CUSTOMER OWNED MANUAL GENERATOR DISCONNECTING MEANS (GANG OPERATED, UTILITY LOCKABLE, 24X7 ACCESSIBLE, GROUNDABLE)
PROPOSED BORING PIT
30'
15'
35'
POLE FOR UTILITY METER ACCESSIBLE 24X7
POLE FOR UTILITY RECLOSER ACCESSIBLE 24X7
POLE FOR UTILITY DISCONNECT SWITCH ACCESSIBLE 24X7, LOCKABLE
POINT OF INTERCONNECTION
POUND HILL RD PUBLIC RIGHT-OF-WAY 50'
EXISTING RESIDENCE #1363
EXISTING OVERHEAD ELECTRIC
CW-6A CW-6B CW-6C
GP-6
W-104A
MW-104B
MW-303A-D
TROUT BROOK CENTERLINE
100 YEAR FLOODPLAIN
200' RIVERBANK WETLAND
10' PROJECT BUFFER
FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE
CHARLES S WILSON
PARCEL ID: 007-068
LAT:N41.978163
LONG:W71.582052
MW-305A-C
ALFRED M & SANDRA M CARON
PARCEL ID: 007-024
RICHARD M & PAMELA J COSTELLO
PARCEL ID: 007-155
ROCHELLE WHITE
PARCEL ID: 007-070
EXISTING RESIDENCE #1375
LAT:N41.978163
LONG:W71.580712
THE ANGLES AND DISTANCES FOR THE DASHED LINES ARE APPROXIMATE BASED ON A RECORDED PLAN FOR CARON'S PREDECESSOR

N

GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- INDEX CONTOUR LINE
- INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

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

NOTE:
PROPOSED TREE LINE SHOWN FOR CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINE.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 13 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING, 6201 SE MONTICELLO TERRACE, MARTIN, FL 33455
ALFRED M CARON, PO BOX 869, SLATERSVILLE, RI 02876
WALLACE AND DOROTHY STONE, 55 CIDAR MILL ROAD, NORTH SMITHFIELD, RI 02896

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Applicant
DEPCOM POWER
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
ALT SITE PLAN - SOUTH

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
06/05/19

SCALE:	1" = 60'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-4.3A

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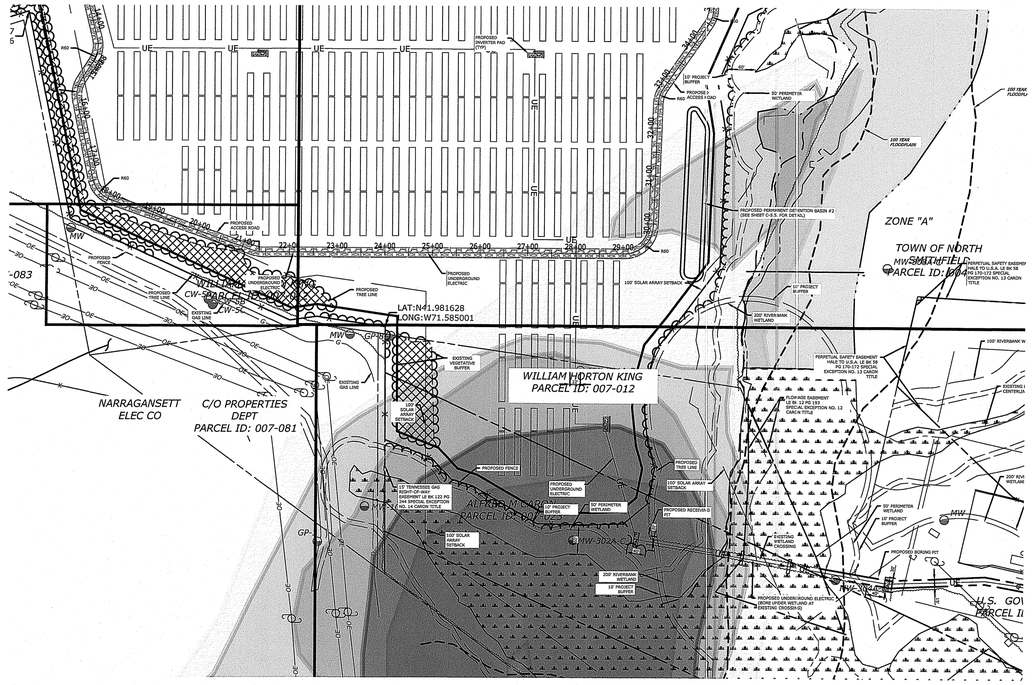
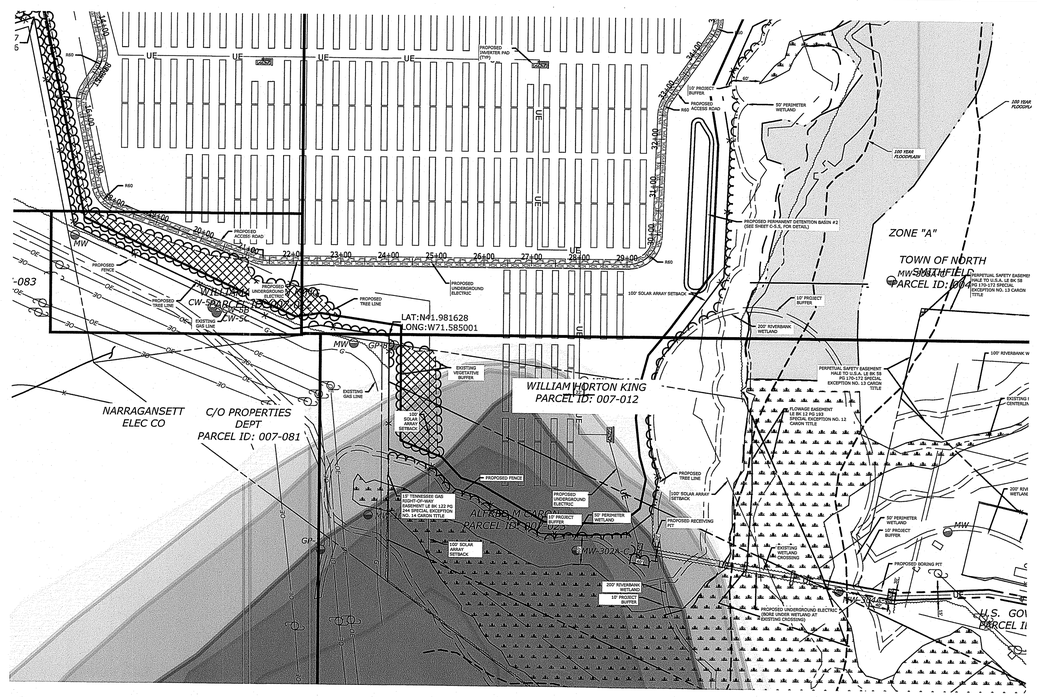
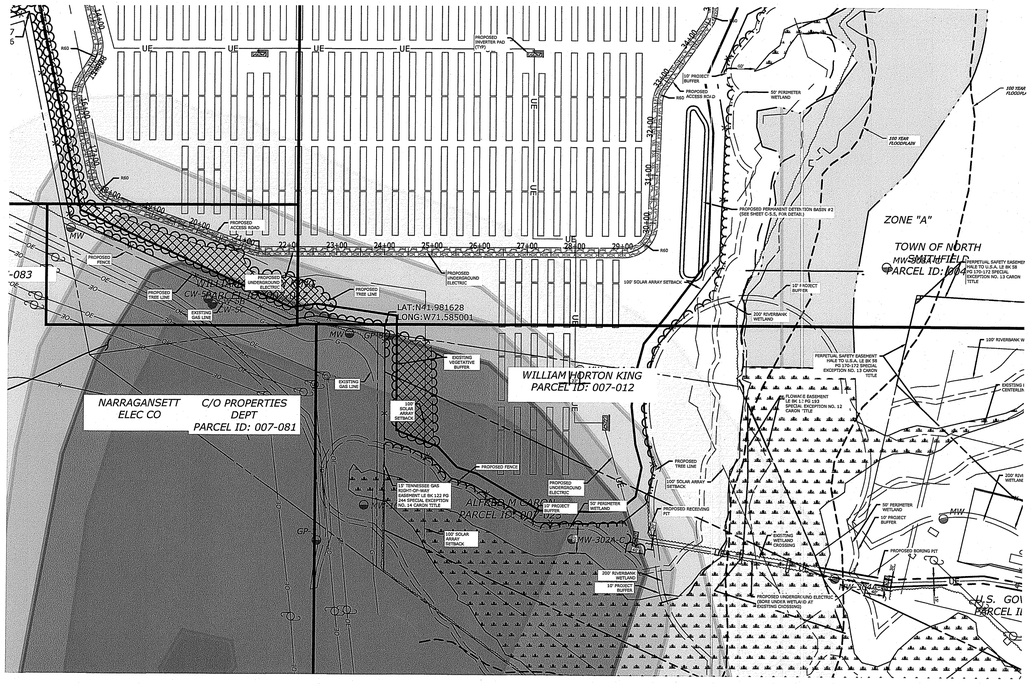
Images: F:_TRC Imagery-Mapping\Logos\Client Logos\DP_LOGO300.png ...\Images\TurningPoint Energy(3).jpg J:\TPE Rhode Island Solar Holdings\North Smithfield - King\SOURCE FILES\tama firm map\4600\CIVIL\SIG.png



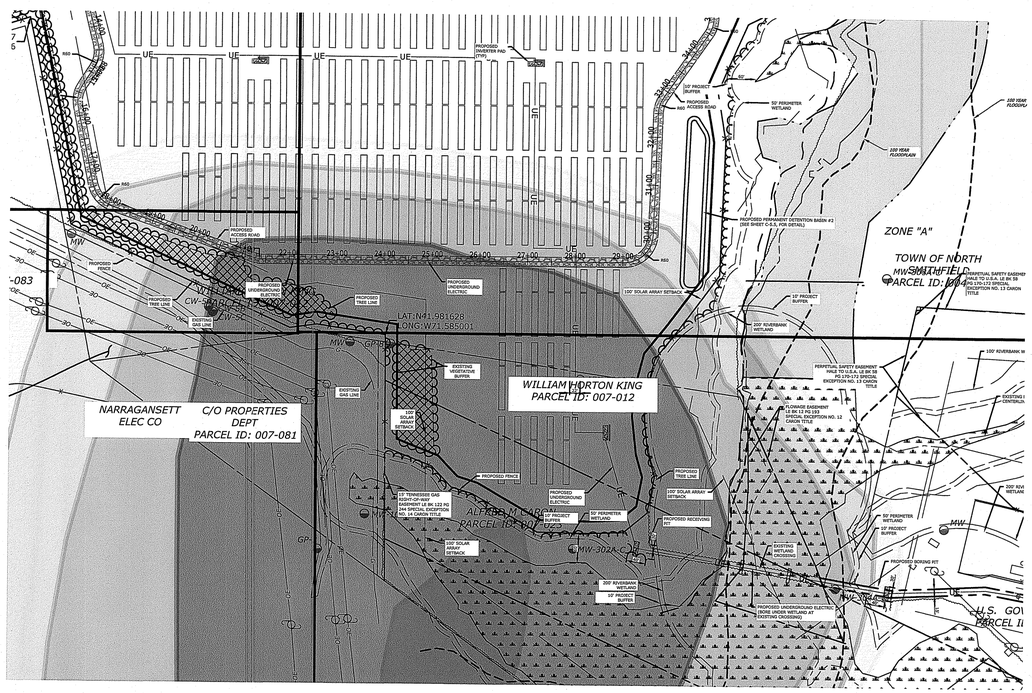
SHALLOW OVERBURDEN



INTERMEDIATE OVERBURDEN



DEEP OVERBUDEN



BEDROCK OVERBURDEN

GRAPHIC SCALE
150' 75' 0 150'
SCALE IN FEET
1" = 150'

LEGEND

VOC ISOPETHS PLUME

- VOC ISOPETHS PLUME 0.3(UG/L)
- VOC ISOPETHS PLUME 3(UG/L)
- VOC ISOPETHS PLUME 10(UG/L)
- VOC ISOPETHS PLUME 50(UG/L)
- VOC ISOPETHS PLUME 100(UG/L)
- VOC ISOPETHS PLUME 300(UG/L)

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 SEP 13 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NOTE:
1. PROPOSED TREE LINE SHOWN FOR CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINE.

2. CONTRACTOR TO ENSURE NO DISRUPTION TO MONITORING WELLS DURING CONSTRUCTION ACTIVITIES.

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
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Applicant

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SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

ALT GROUNDWATER PLUMES EXHIBIT

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 150'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-4.4A

XRefs:
Images: F:_TRC Imagery Mapping\Logos\Client Logos\DP_LOGO800.png ..\Images\TurningPoint Energy2.jpg J:\TRE Rhode Island Solar Holdings\North Smithfield - Alloy\DOCS\2.PLS\Sitema ima\4400072419262.png

J:\Depcom Power\North Smithfield - Alloy\CAD\Plot Sheets\GPC Plans\C-4 Site Plan - ALLoy 06-11-2019 3:59:09 PM BY: Stam

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

NOTE:

ARRAY POSTS WILL BE DRIVEN POSTS OR SCREW PILES, THERE WILL BE NO CONCRETE BALLAST BLOCKS. ARRAYS WILL BE ELEVATED ABOVE GRADE WITH AT LEAST 6" LAYER OF LOAM TOPSOIL. AND BE VEGETATED WITH GRASS BENEATH THE PROPOSED ARRAY AREA.

FLOOD AREA NOTES

THE FEMA MAPPING FOR THE PROJECT AREA INDICATES THAT THERE IS AN AREA OF MINIMAL FLOODING LOCATED AROUND THE EXISTING STREAM ON THE EASTERN SIDE OF THE PROJECT. BASED ON THE FEMA MAPPING AN APPROXIMATE 100-YEAR FLOOD ELEVATION WAS ESTABLISHED AND SHOWN ON THE PLAN. THIS 100-YEAR FLOOD AREA IS APPROXIMATE AS NO DETAILED FLOOD STUDY, BASE ELEVATION OR CROSS SECTIONS WERE ESTABLISHED FOR THIS AREA.

A STUDY WAS PERFORMED USING USGS INFORMATION TO CALCULATE STORMWATER FLOW FROM THE UPSLOPE DRAINAGE AREA DURING 100-YEAR STORM. THIS FLOW WAS ROUTED THROUGH A CROSS SECTION GENERATED FROM SURVEY DATA IN ORDER TO CALCULATE AN APPROXIMATE 100-YEAR FLOW ELEVATION, WHICH IS PROVIDED ON THE PLAN. THIS STUDY IS INCLUDED IN SECTION 3.2.6 OF THE STORMWATER MANAGEMENT REPORT PREPARED FOR THIS SITE.

GEOTECHNICAL/SOILS NOTES

- IF LOAD BEARING FILL IS REQUIRED SAID FILL SHOULD CONSIST OF WELL GRANULATED MATERIAL SIMILAR TO GW AS IDENTIFIED BY USCS OR RIDOT GRAVEL BARROW (STANDARD SPECIFICATION M.01.02)
- BACKFILLS AND FILLS SHOULD BE PLACED IN LIFT LAYERS NOT EXCEEDING 12". LOAD BEARING FILLS FOR THE SUPPORT OF FOUNDATIONS SHOULD BE COMPACTED TO NOT LESS THAN 98% OF MAXIMUM DRY DENSITY (ASTM D 698). FILLS IN LANDSCAPE AREAS SHOULD BE COMPACTED TO A MINIMUM 905 OF MAXIMUM DRY DENSITY.
- SIDEWALLS OF CONFINED EXCAVATIONS DEEPER THAN 4 FEET MUST BE SLOPED, BENCHED OR ADEQUATELY SHORED PER OSHA 29 CFR 1926 REGULATIONS.
- OPEN EXCAVATIONS IN THE NATURAL SOILS SHOULD NOT BE STEEPER THAN 1.5H:1V IF DRY.
- ALL IMPORTED FILL MATERIAL SHALL BE SAMPLED AND TESTED BY A GEOTECHNICAL ENGINEER OR OTHER QUAUIFIED SOIL TESTING AGENCY PRIOR TO BEING TRANSPORTED TO THE SITE.
- FOR ADDITIONAL SOILS AND GEOTECHNICAL REQUIREMENTS, TECHNICAL GUIDANCE AND INFORMATION CONTRACTOR OR REPRESENTATIVE SHALL REFER TO THE JUNE 27, 2018 GEOTECHNICAL ENGINEERING REPORT. PREPARED BY TRC.

MONITORING WELL NOTES:

1. MONITORING WELLS MW 301 A-D ARE WITHIN THE CONSTRUCTION AREA OF THIS SITE. THESE WELLS SHALL BE PROTECTED FROM CONSTRUCTION EQUIPMENT VIA THE USE OF JERSEY BARRIERS OR OTHER APPROVED MEASURES UNTIL GRADING OPERATIONS ARE COMMENCED.
2. PRIOR TO GRADING AROUND MONITORING WELLS (MW-301 A-D), ALL WELLS SHALL BE EXTENDED USING RISERS PER THE DETAIL PROVIDED ON SHEET C-5.3. THE WELLS SHALL BE EXTENDED TO AN ELEVATION RELATIVE TO PROPOSED GRADE TO MATCH THEIR CURRENT CONDITION.
3. COMPACTION OF FILL AROUND THESE MONITORING WELLS SHALL BE COMPLETED USING A JUMPING JACK OR OTHER LOW-IMPACT COMPACTION EQUIPMENT SO THAT THE INTEGRITY OF THE WELL IS NOT COMPROMISED.
4. ALL CONSTRUCTION RELATED TO THESE MONITORING WELLS SHALL BE IN ACCORDANCE WITH THE "HANDBOOK OF SUGGESTED PRACTICES FOR THE DESIGN AND INSTALLATION OF GROUND-WATER MONITORING WELLS", PREPARED BY THEN ENVIRONMENTAL MONITORING SYSTEMS LABORATORY OFFICE OF RESEARCH AND DEVELOPMENT, U.S. ENVIRONMENTAL PROTECTION AGENCY, MOST CURRENT EDITION.

LEGEND EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NOTE:

1. DESIGNATED AREAS AROUND THE SOLAR ARRAYS WILL BE STABILIZED WITH A LOW-HEIGHT, POLLINATOR-FRIENDLY SEED MIX. THE PLANTS INCLUDED IN THE POLLINATOR SEED MIX, WHICH IS INTENDED TO PROVIDE FOOD AND SHELTER FOR WILDLIFE AND WILL ATTRACT A VARIETY OF POLLINATORS AND SONGBIRDS. THE WILDFLOWERS AND GRASSES IN THE SELECTED MIX WILL PROVIDE AN ATTRACTIVE DISPLAY OF COLOR FROM SPRING TO FALL AND WILL PROVIDE NECTAR AND FOOD FOR POLLINATORS AND THEIR LARVA.
2. CONTRACTOR TO ENSURE NO DISRUPTION TO MONITORING WELLS DURING CONSTRUCTION ACTIVITIES.

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

TRC Engineers, Inc.
650 Suffolk Street
Suite 200
Lowell, MA 01854
Tel: (978) 970-5600
www.TRCcompanies.com

© TRC Engineers, Inc.

Applicant

DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 13 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Jacqueline D. Edmonds

GRAPHIC SCALE
150' 75' 0 150'
SCALE IN FEET
1" = 150'

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

OVERALL GRADING PLAN

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
06/05/19

SCALE:	1" = 150'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5

J:\Depcom Power\North Smithfield - Proj\338781\Civil Sheets\[05 Plots\Dp-5 - 5.1 Grading Plan.dwg 06-05-2019 4:03:38 PM EDT Scott

XRefs: ...\Grids\North Smithfield-01_wTB.dwg ...\Grids\North Smithfield-04_wSITE.dwg ...\Grids\North Smithfield-03_wEOX7.dwg ...\Grids\North Smithfield-05_wGRADE.dwg
Images: P:_TRC Imagery-Mapping\Logos\Client Logos\DP_LOGO80.png ...Images\TurningPoint Energy3.jpg ATPE Rhode Island Solar Holding\North Smithfield - Kng\SOURCE FILES\temp frm map\446972019200.png

PROPOSED FENCE
PROPOSED SOLAR ARRAY AREA
PROPOSED TREE LINE
EXISTING VEGETATIVE BUFFER
PROPOSED PERMANENT DETENTION BASIN #3 (SEE SHEET C-5.6, FOR DETAIL)
EMERGENCY SPILLWAY WITH ROCK RIP-RAP
D50 6" TO BE PLACED BASIN SIDE SLOPE. MIN. THICKNESS 14"
35 LF - 6" HDPE PIPE
EW-3.2
HW-3.1
PROPOSED INFILTRATION TRENCH #1 (SEE DETAIL, SHEET C-7)
PROPOSED INVERTER PAD #1 ELEVATION 315.70
PROPOSED INFILTRATION TRENCH #2 (SEE DETAIL, SHEET C-7)
PROPOSED INVERTER PAD #2 ELEVATION 315.80
PROPOSED INFILTRATION TRENCH #3 (SEE DETAIL, SHEET C-7)
PROPOSED INVERTER PAD #3 ELEVATION 306.8
PROPOSED ACCESS ROAD
PROPOSED SOLAR ARRAY AREA
PERMANENT DETENTION BASIN 4
EXISTING VEGETATIVE BUFFER
FORMERLY: OLD OXFORD RD
CURRENTLY: PRIVATE RD - QUIET TITLE C.A. NO.PC06-1502
MATCHLINE (THIS SHEET)
MATCHLINE (SEE SHEET C-4.3)
MATCHLINE (SEE SHEET C-5.2)
MATCHLINE (THIS SHEET)
PROPOSED ACCESS ROAD
PROPOSED FENCE
PROPOSED TREE LINE
EXISTING GAS LINE
MW
GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

NOTES:

1. ARRAY POSTS WILL BE DRIVEN POSTS OR SCREW PILES, THERE WILL BE NO CONCRETE BALLAST BLOCKS. ARRAYS WILL BE ELEVATED ABOVE GRADE WITH AT LEAST 6" LAYER OF LOAM TOPSOIL. AND BE VEGETATED WITH GRASS BENEATH THE PROPOSED ARRAY AREA.
2. ALL IMPORTED FILL MATERIAL SHALL BE SAMPLED AND TESTED BY A GEOTECHNICAL ENGINEER OR OTHER QUALIFIED SOIL TESTING AGENCY PRIOR TO BEING TRANSPORTED TO THE SITE.

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
FILE # 18-0314
DATED SEP 13 2019
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NOTE:

1. DESIGNATED AREAS AROUND THE SOLAR ARRAYS WILL BE STABILIZED WITH A LOW-HEIGHT, POLLINATOR-FRIENDLY SEED MIX. THE PLANTS INCLUDED IN THE POLLINATOR SEED MIX, WHICH IS INTENDED TO PROVIDE FOOD AND SHELTER FOR WILDLIFE AND WILL ATTRACT A VARIETY OF POLLINATORS AND SONGBIRDS. THE WILDFLOWERS AND GRASSES IN THE SELECTED MIX WILL PROVIDE AN ATTRACTIVE DISPLAY OF COLOR FROM SPRING TO FALL AND WILL PROVIDE NECTAR AND FOOD FOR POLLINATORS AND THEIR LARVA.
2. CONTRACTOR TO ENSURE NO DISRUPTION TO MONITORING WELLS DURING CONSTRUCTION ACTIVITIES.

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
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Applicant

DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

GRADING PLAN - WEST

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 60'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5.1

C:\Depcom Power\North Smithfield - Roy\CAD\Final Sheets\WPC Plans\C-5 - 5.3 Grading Plans.dwg 06-11-2019 4:54:10 PM By: Sean
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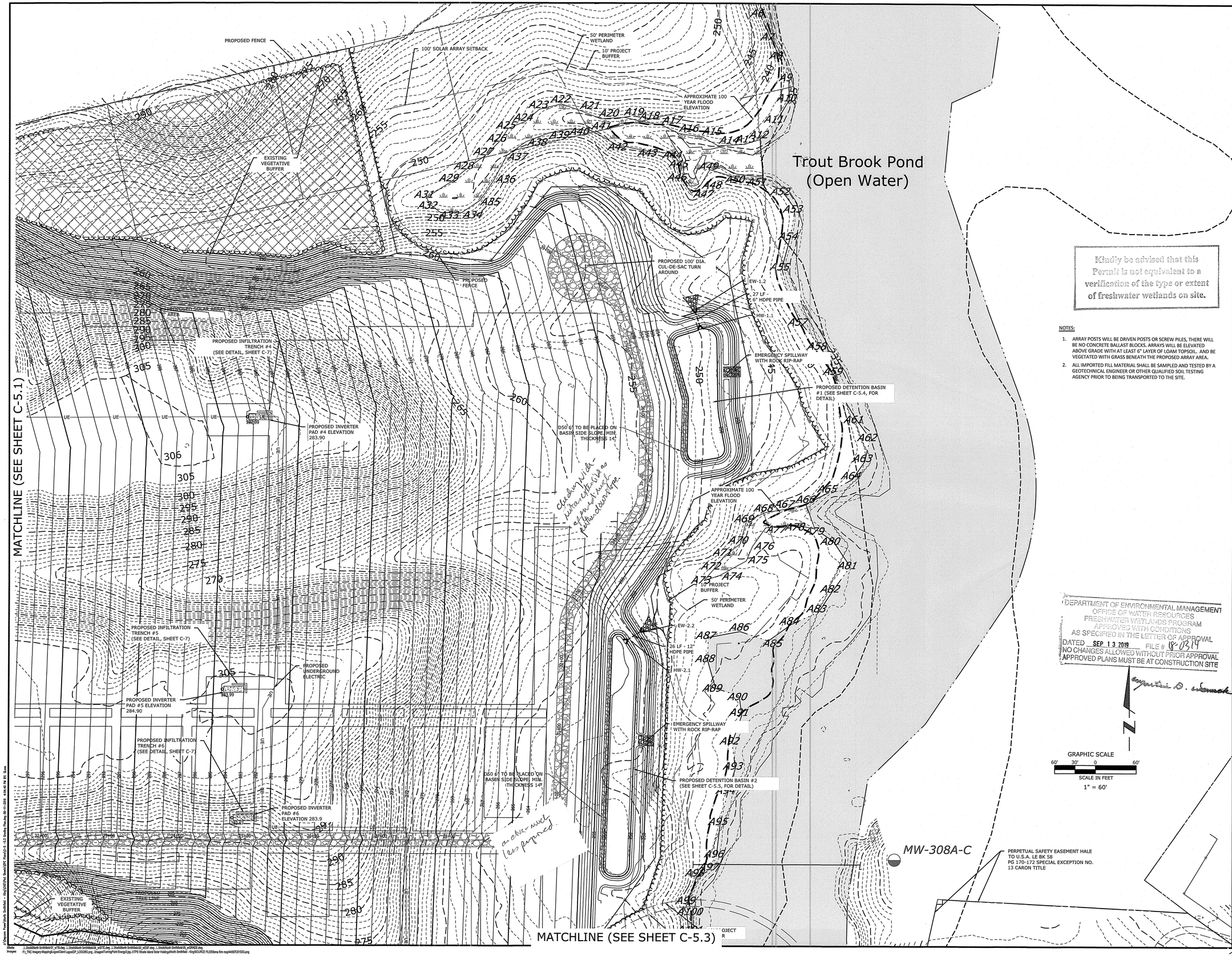
Images: FI_TRC Imagery-Mapping\Layout\Client Logos\DP_LOGO800.jpg; Images\TurningPoint Energy\tp.jpg; ESRI Rhode Island Solar Visibility\North Smithfield - Roy\SOURCE FILES\Name Sm.map\4497CH1500.png



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

NOTES:

1. ARRAY POSTS WILL BE DRIVEN POSTS OR SCREW PILES, THERE WILL BE NO CONCRETE BALLAST BLOCKS. ARRAYS WILL BE ELEVATED ABOVE GRADE WITH AT LEAST 6" LAYER OF LOAM TOPSOIL. AND BE VEGETATED WITH GRASS BENEATH THE PROPOSED ARRAY AREA.
2. ALL IMPORTED FILL MATERIAL SHALL BE SAMPLED AND TESTED BY A GEOTECHNICAL ENGINEER OR OTHER QUALIFIED SOIL TESTING AGENCY PRIOR TO BEING TRANSPORTED TO THE SITE.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 13 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NOTE:

1. DESIGNATED AREAS AROUND THE SOLAR ARRAYS WILL BE STABILIZED WITH A LOW-HEIGHT, POLLINATOR-FRIENDLY SEED MIX. THE PLANTS INCLUDED IN THE POLLINATOR SEED MIX, WHICH IS INTENDED TO PROVIDE FOOD AND SHELTER FOR WILDLIFE AND WILL ATTRACT A VARIETY OF POLLINATORS AND SONGBIRDS. THE WILDFLOWERS AND GRASSES IN THE SELECTED MIX WILL PROVIDE AN ATTRACTIVE DISPLAY OF COLOR FROM SPRING TO FALL AND WILL PROVIDE NECTAR AND FOOD FOR POLLINATORS AND THEIR LARVA.
2. CONTRACTOR TO ENSURE NO DISRUPTION TO MONITORING WELLS DURING CONSTRUCTION ACTIVITIES.

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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Applicant

DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

GRADING PLAN - EAST

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 60'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5.2

C:\Depcom Power\North Smithfield - Roy\DWG\Plan Sheets\[Plan Sheets] - 11x17.dwg Plot Day: 06-11-2019 4:04:48 PM EDT Stark
XRefs:
Images:
P:_TRC Imagery Mapping\Logos\Client Logos\DP_LOGO80.png ..\Image\TurningPoint Energy3.jpg ..\TPE Rhode Island Solar Holdings\North Smithfield - Roy\SOURCE FILES\lorna finn map\4400\FOR150.png

MATCHLINE (SEE SHEET C-5.2)

EXISTING VEGETATIVE BUFFER

EXISTING GAS LINE

SEE NOTES BELOW FOR GRADING AROUND MONITORING WELLS

PROPOSED UNDERGROUND ELECTRIC

PROPOSED SOLAR ARRAY AREA

PROPOSED TREE LINE

PROPOSED RECEIVING PIT

PROPOSED FENCE

100' SOLAR ARRAY SETBACK

PROPOSED UNDERGROUND ELECTRIC

10' PROJECT BUFFER

200' RIVERBANK WETLAND

50' PERIMETER WETLAND

EXISTING WETLAND CROSSING

APPROXIMATE 100 YEAR FLOOD ELEVATION

WETLAND

PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

EXISTING 100' RIVERBANK WETLAND

EXISTING RIVER/STREAM CENTERLINE

EXISTING 100' RIVERBANK WETLAND

100' SOLAR ARRAY SETBACK

200' RIVERBANK WETLAND

10' PROJECT BUFFER

50' PERIMETER WETLAND

10' PROJECT BUFFER

PROPOSED BORING PIT

PROPOSED UNDERGROUND ELECTRIC

EXISTING WETLAND

TROUT BROOK CENTERLINE

FOUND HILL RD PUBLIC RIGHT-OF-WAY 50'

EXISTING RESIDENCE #1363

200' RIVERBANK WETLAND

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

EXISTING RESIDENCE #1375

MW-102A-B
MW-301A-D
MW-302A-C
MW-303A-D
MW-304A-C
MW-305A-C
MW-202
GP-8
GP-6
CW-6A
CW-6B
CW-6C
W-104A
MW-104B

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 SEP 13 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

NOTES:

1. ARRAY POSTS WILL BE DRIVEN POSTS OR SCREW PILES, THERE WILL BE NO CONCRETE BALLAST BLOCKS. ARRAYS WILL BE ELEVATED ABOVE GRADE WITH AT LEAST 6" LAYER OF LOAM TOPSOIL. AND BE VEGETATED WITH GRASS BENEATH THE PROPOSED ARRAY AREA.
2. ALL IMPORTED FILL MATERIAL SHALL BE SAMPLED AND TESTED BY A GEOTECHNICAL ENGINEER OR OTHER QUAIFIED SOIL TESTING AGENCY PRIOR TO BEING TRANSPORTED TO THE SITE.

MONITORING WELL NOTES:

1. MONITORING WELLS MW 301 A-D ARE WITHIN THE CONSTRUCTION AREA OF THIS SITE. THESE WELLS SHALL BE PROTECTED FROM CONSTRUCTION EQUIPMENT VIA THE USE OF JERSEY BARRIERS OR OTHER APPROVED MEASURES UNTIL GRADING OPERATIONS ARE COMMENCED.
2. PRIOR TO GRADING AROUND MONITORING WELLS (MW-301 A-D), ALL WELLS SHALL BE EXTENDED USING RISERS PER THE DETAIL PROVIDED ON THIS SHEET. THE WELLS SHALL BE EXTENDED TO AN ELEVATION RELATIVE TO PROPOSED GRADE TO MATCH THEIR CURRENT CONDITION.
3. COMPACTION OF FILL AROUND THESE MONITORING WELLS SHALL BE COMPLETED USING A JUMPING JACK OR OTHER LOW-IMPACT COMPACTION EQUIPMENT SO THAT THE INTEGRITY OF THE WELL IS NOT COMPROMISED.
4. ALL CONSTRUCTION RELATED TO THESE MONITORING WELLS SHALL BE IN ACCORDANCE WITH THE "HANDBOOK OF SUGGESTED PRACTICES FOR THE DESIGN AND INSTALLATION OF GROUND-WATER MONITORING WELLS", PREPARED BY THEN ENVIRONMENTAL MONITORING SYSTEMS LABORATORY OFFICE OF RESEARCH AND DEVELOPMENT, U.S. ENVIRONMENTAL PROTECTION AGENCY, MOST CURRENT EDITION.

MONITORING WELL DETAIL TO BE PROVIDED

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NOTE:

1. DESIGNATED AREAS AROUND THE SOLAR ARRAYS WILL BE STABILIZED WITH A LOW-HEIGHT, POLLINATOR-FRIENDLY SEED MIX. THE PLANTS INCLUDED IN THE POLLINATOR SEED MIX, WHICH IS INTENDED TO PROVIDE FOOD AND SHELTER FOR WILDLIFE AND WILL ATTRACT A VARIETY OF POLLINATORS AND SONGBIRDS. THE WILDFLOWERS AND GRASSES IN THE SELECTED MIX WILL PROVIDE AN ATTRACTIVE DISPLAY OF COLOR FROM SPRING TO FALL AND WILL PROVIDE NECTAR AND FOOD FOR POLLINATORS AND THEIR LARVA.
2. CONTRACTOR TO ENSURE NO DISRUPTION TO MONITORING WELLS DURING CONSTRUCTION ACTIVITIES.

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
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Applicant

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9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
GRADING PLAN - SOUTH

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 60'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5.3

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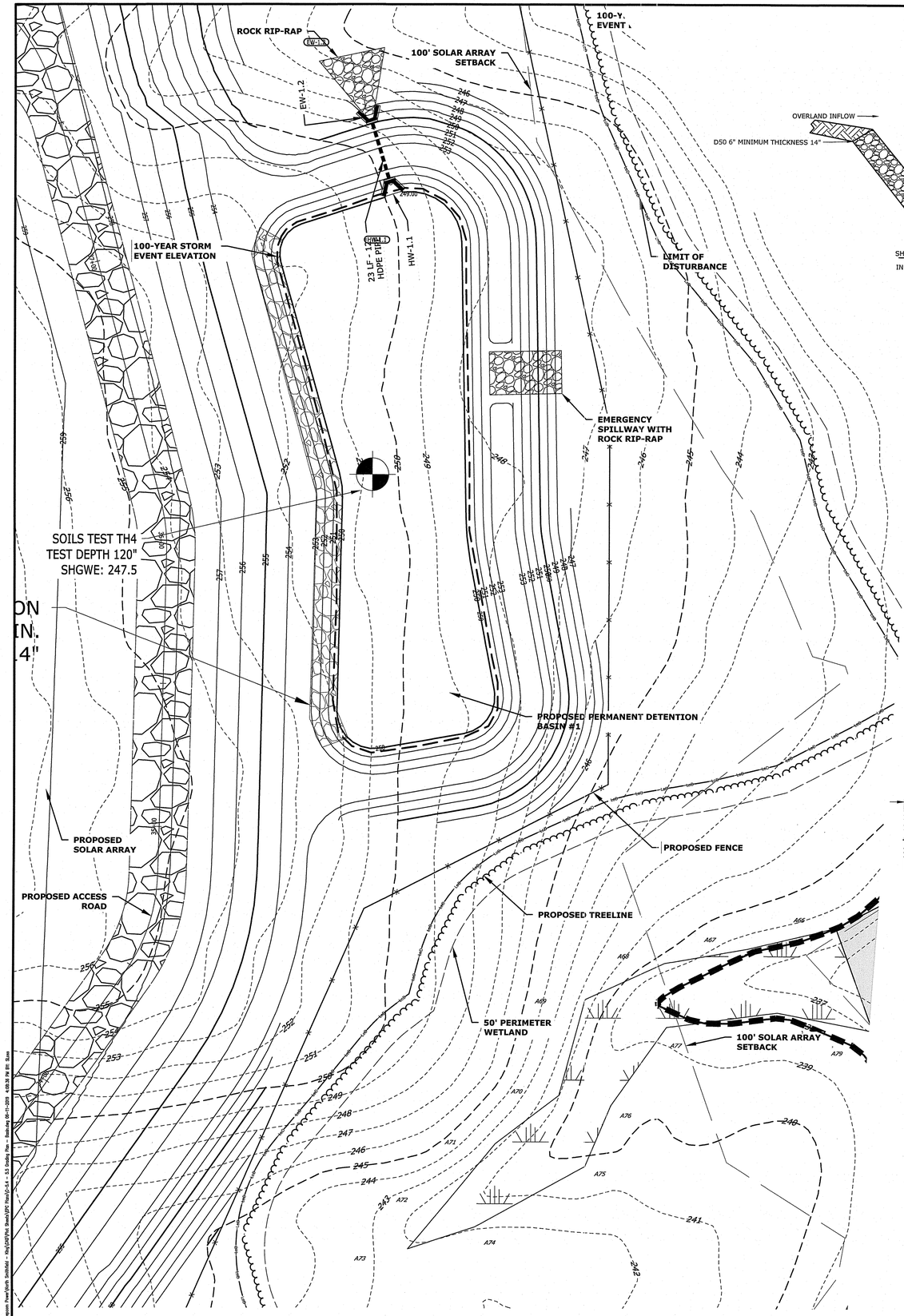
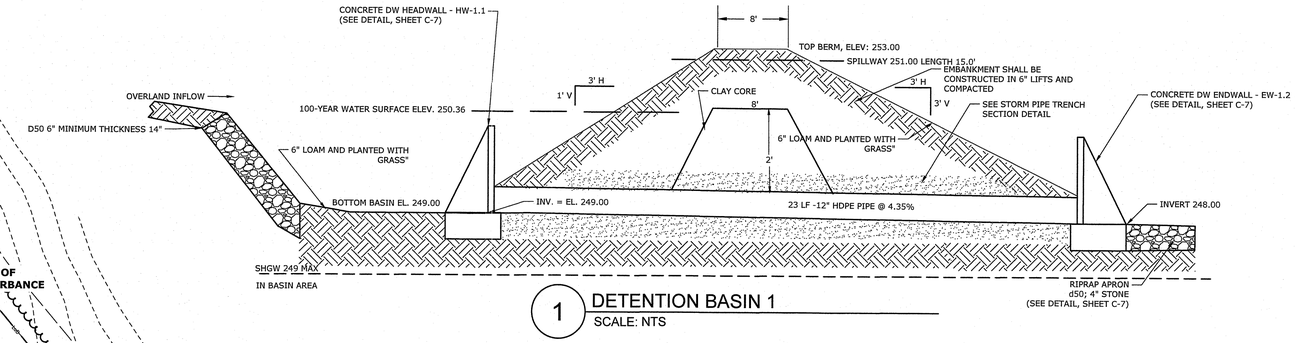


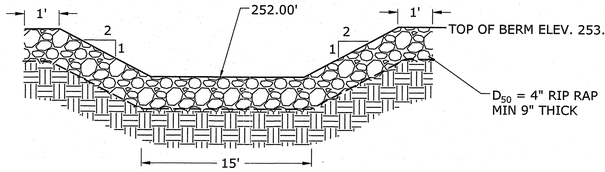


1 DETENTION BASIN 1
SCALE: NTS

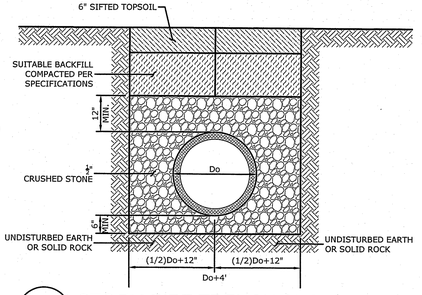
BASIN EARTHWORK NOTES:

1. FILL MATERIAL SHOULD BE TAKEN FROM APPROVED DESIGNATED EXCAVATION AREAS. IT SHOULD BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6 INCHES, OR OTHER OBJECTIONABLE MATERIALS. MATERIALS ON THE OUTER SURFACE OF THE EMBANKMENT MUST HAVE THE CAPABILITY TO SUPPORT VEGETATION.
2. AREAS WHERE FILL IS TO BE PLACED SHOULD BE SCARIFIED PRIOR TO PLACEMENT. FILL MATERIALS THE EMBANKMENT SHOULD BE PLACED IN MAXIMUM 6-INCH LIFTS. THE PRINCIPAL SPILLWAY SHOULD BE INSTALLED CONCURRENTLY WITH FILL PLACEMENT AND NOT EXCAVATED INTO THE EMBANKMENT.
3. THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE SITE SHOULD BE CONTROLLED. FOR THE EMBANKMENT, EACH LIFT SHOULD BE COMPACTED TO 95% OF THE STANDARD PROCTOR. FILL MATERIAL SHOULD CONTAIN SUFFICIENT MOISTURE.
4. BACKFILL ADJACENT TO PIPES AND STRUCTURES SHOULD BE OF THE TYPE AND QUALITY OF THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL SHOULD BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL SHOULD FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. AT NO TIME DURING THE BACKFILLING OPERATION SHOULD DRIVEN EQUIPMENT BE UTILIZED CLOSER THAN 4 TO ANY STRUCTURE.
5. FILL MATERIAL MUST MEET ALL STATE REGULATIONS.

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



2 SPILLWAY DETAIL BASIN 1
SCALE: NTS



3 STORM PIPE TRENCH SECTION
SCALE: NTS

DETENTION BASIN 1 AREA/VOLUME CALCULATIONS

ELEVATION	BASIN AREA (SF)	BASIN INCREMENTAL VOLUME (CF)	BASIN VOLUME (CF)
249.0	0	0	0
250.0	9,667	4,834	4,834
251.0	11,109	10,388	15,222
252.0	12,604	11,857	27,078
253.0	14,200	13,402	40,480

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 13 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 — INTERMEDIATE CONTOUR LINES
- 420 — INDEX CONTOUR LINES
- 2.00% — SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

TRC
TRC Engineers, Inc.
650 Suffolk Street
Suite 200
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Tel: (978) 970-5600
www.TRCcompanies.com
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Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
GRADING PLAN - BASIN #1

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 20'
DATE:	06/05/2019
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5.4

06/05/19

XRefs: J:\Work\North Smithfield\04_xr\SITE.dwg, J:\Work\North Smithfield\03_xr\GAT.dwg, J:\Work\North Smithfield\01_xr\TB.dwg J:\Depcom Power\North Smithfield - Klop\CAD\Work\North Smithfield-06_xr\GRADE.dwg
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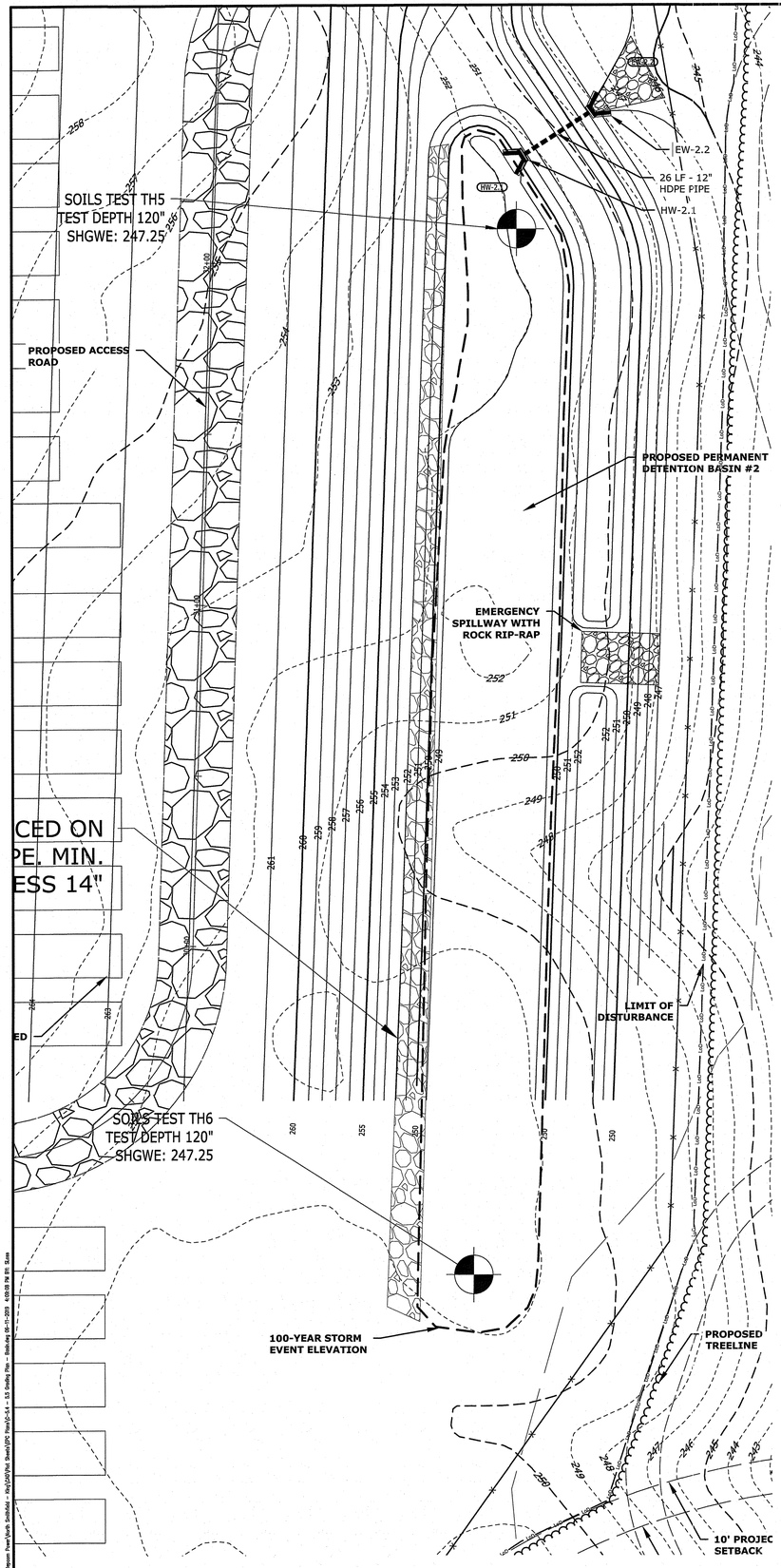
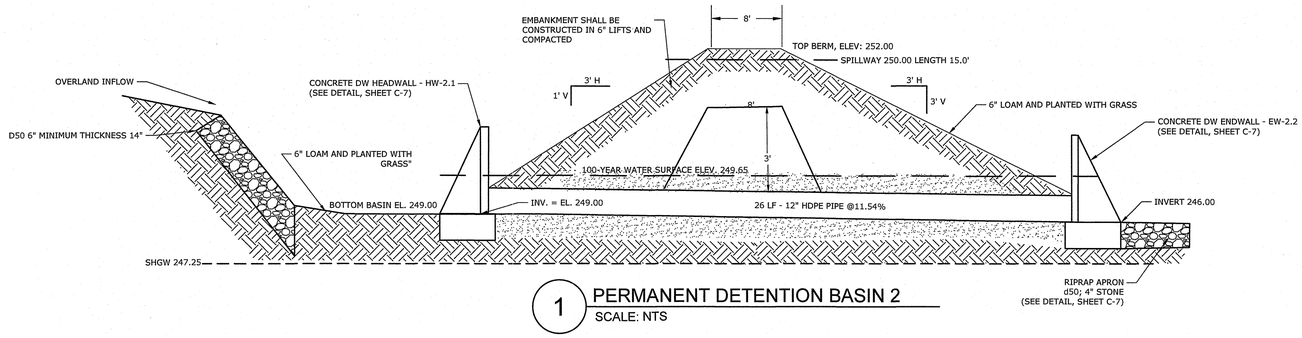


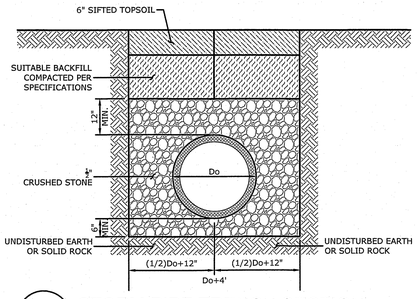


1 PERMANENT DETENTION BASIN 2
SCALE: NTS

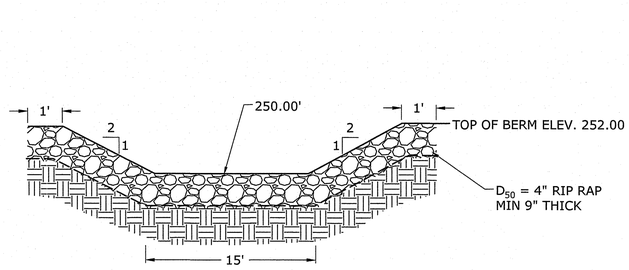
BASIN EARTHWORK NOTES:

1. FILL MATERIAL SHOULD BE TAKEN FROM APPROVED DESIGNATED EXCAVATION AREAS. IT SHOULD BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6 INCHES, OR OTHER OBJECTIONABLE MATERIALS. MATERIALS ON THE OUTER SURFACE OF THE EMBANKMENT MUST HAVE THE CAPABILITY TO SUPPORT VEGETATION.
2. AREAS WHERE FILL IS TO BE PLACED SHOULD BE SCARIFIED PRIOR TO PLACEMENT. FILL MATERIALS THE EMBANKMENT SHOULD BE PLACED IN MAXIMUM 6-INCH LIFTS. THE PRINCIPAL SPILLWAY SHOULD BE INSTALLED CONCURRENTLY WITH FILL PLACEMENT AND NOT EXCAVATED INTO THE EMBANKMENT.
3. THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE SITE SHOULD BE CONTROLLED. FOR THE EMBANKMENT, EACH LIFT SHOULD BE COMPACTED TO 95% OF THE STANDARD PROCTOR. FILL MATERIAL SHOULD CONTAIN SUFFICIENT MOISTURE.
4. BACKFILL ADJACENT TO PIPES AND STRUCTURES SHOULD BE OF THE TYPE AND QUALITY OF THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL SHOULD BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL SHOULD FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. AT NO TIME DURING THE BACKFILLING OPERATION SHOULD DRIVEN EQUIPMENT BE UTILIZED CLOSER THAN 4 TO ANY STRUCTURE.
5. FILL MATERIAL MUST MEET ALL STATE REGULATIONS.

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



3 STORM PIPE TRENCH SECTION
SCALE: NTS



2 SPILLWAY DETAIL BASIN 2
SCALE: NTS

DETENTION BASIN 2 AREA/VOLUME CALCULATIONS

ELEVATION	BASIN AREA (SF)	BASIN INCREMENTAL VOLUME (CF)	BASIN VOLUME (CF)
249.0	9,466	0	0
250.0	12,954	11,210	11,210
251.0	15,476	14,215	25,425
252.0	17,556	16,516	41,941

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
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NORTH SMITHFIELD, RI 02896

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Tel: (978) 970-5600
www.TRCcompanies.com

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Applicant

DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

GRADING PLAN - BASIN #2

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
06/05/19

SCALE:	1" = 20'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5.5

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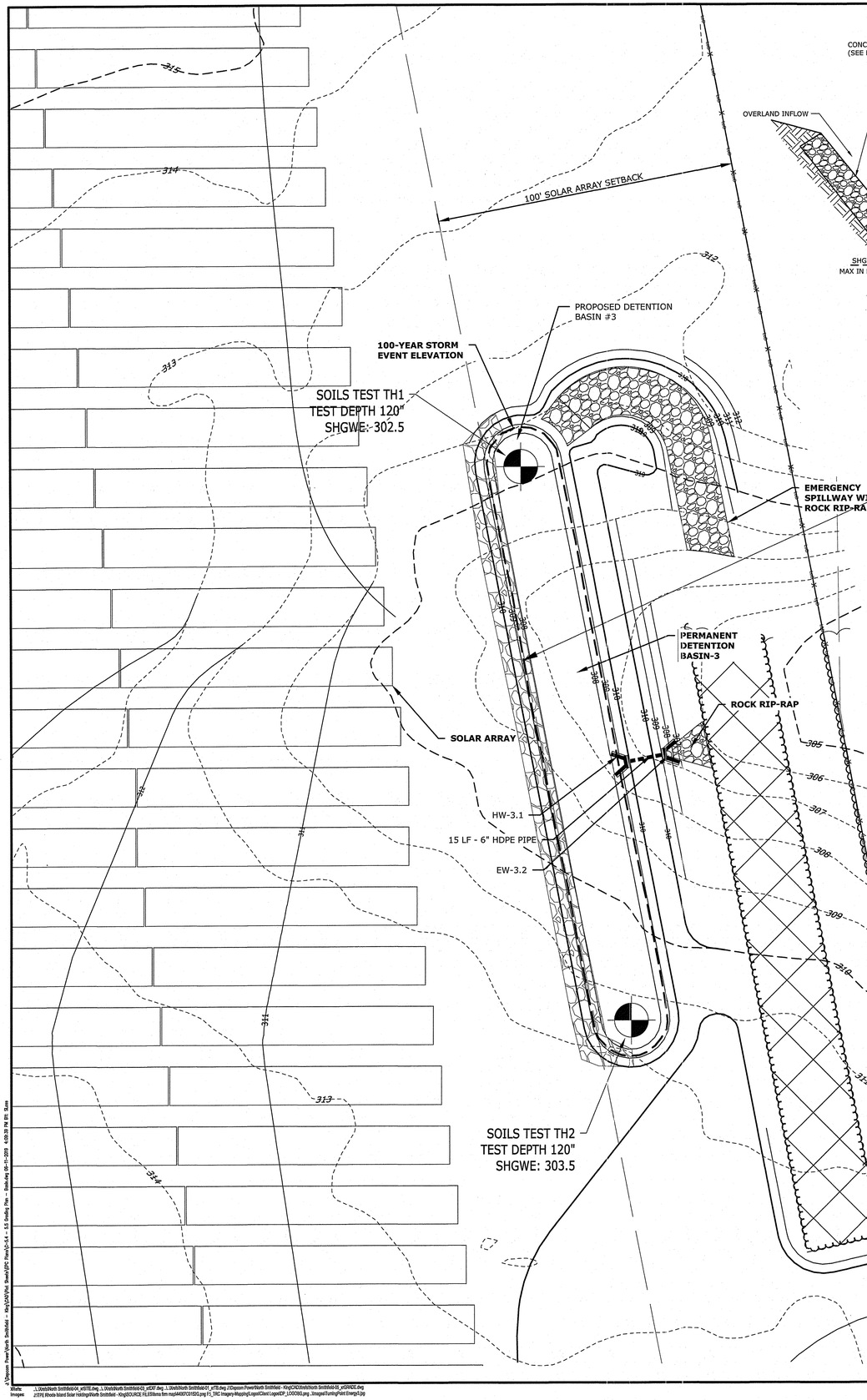
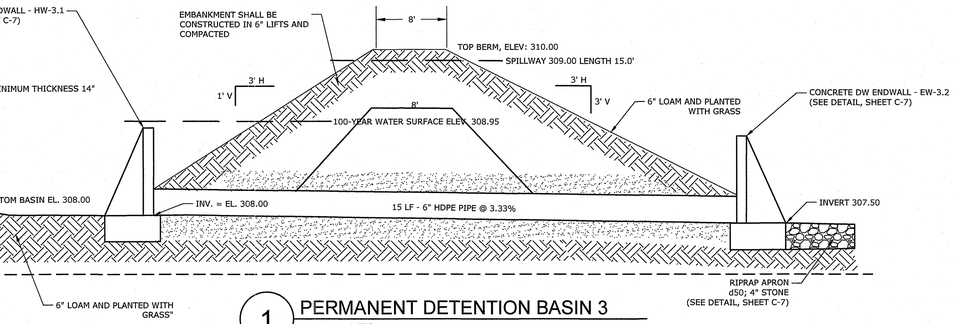
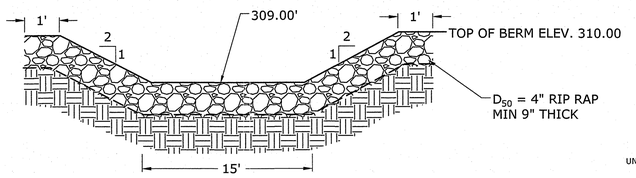




1 PERMANENT DETENTION BASIN 3
SCALE: NTS

D50 6" TO BE PLACED BASIN SIDE SLOPE. MIN. THICKNESS 14"



2 SPILLWAY DETAIL BASIN 3
SCALE: NTS

3 STORM PIPE TRENCH SECTION
SCALE: NTS

BASIN EARTHWORK NOTES:

1. FILL MATERIAL SHOULD BE TAKEN FROM APPROVED DESIGNATED EXCAVATION AREAS. IT SHOULD BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6 INCHES, OR OTHER OBJECTIONABLE MATERIALS. MATERIALS ON THE OUTER SURFACE OF THE EMBANKMENT MUST HAVE THE CAPABILITY TO SUPPORT VEGETATION.
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4. BACKFILL ADJACENT TO PIPES AND STRUCTURES SHOULD BE OF THE TYPE AND QUALITY OF THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL SHOULD BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL SHOULD FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. AT NO TIME DURING THE BACKFILLING OPERATION SHOULD DRIVEN EQUIPMENT BE UTILIZED CLOSER THAN 4 TO ANY STRUCTURE.
5. FILL MATERIAL MUST MEET ALL STATE REGULATIONS.

DETENTION BASIN 3 AREA/VOLUME CALCULATIONS

ELEVATION	BASIN AREA SF.	BASIN INCREMENTAL VOLUME (CF)	BASIN VOLUME (CF)
308.0	4,094	0	0
309.0	5,445	4,770	4,770
310.0	6,852	6,149	10,918

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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 SEP 13 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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650 Suffolk Street
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Lowell, MA 01854
Tel: (978) 970-5600
www.TRCcompanies.com

Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
GRADING PLAN - BASIN #3

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
06/05/19

SCALE:	1" = 20'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5.6

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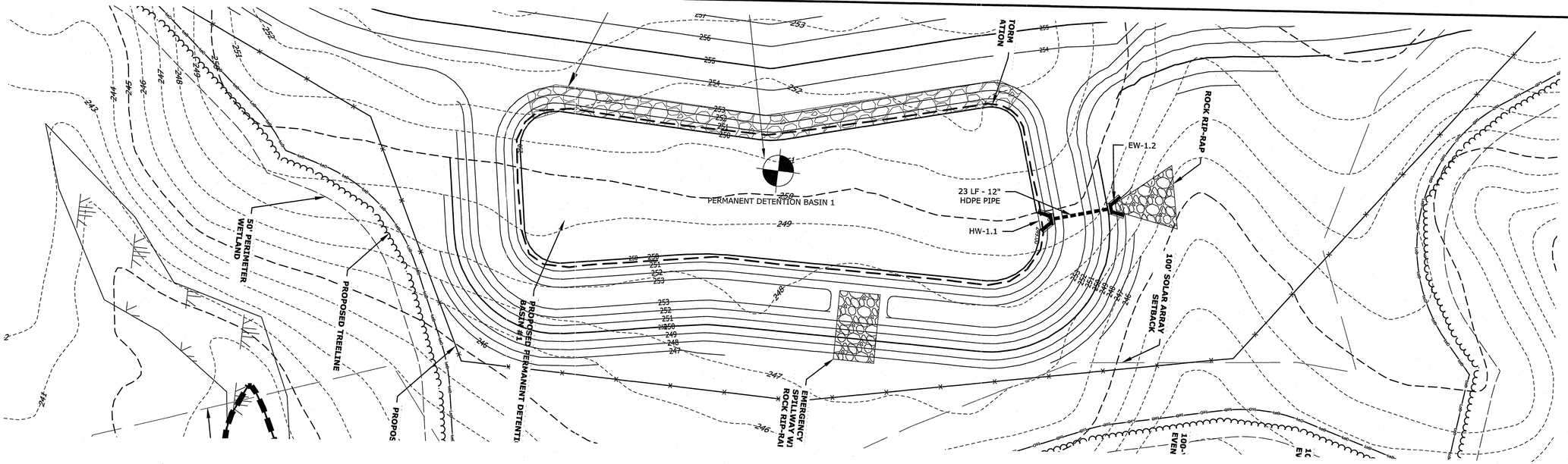
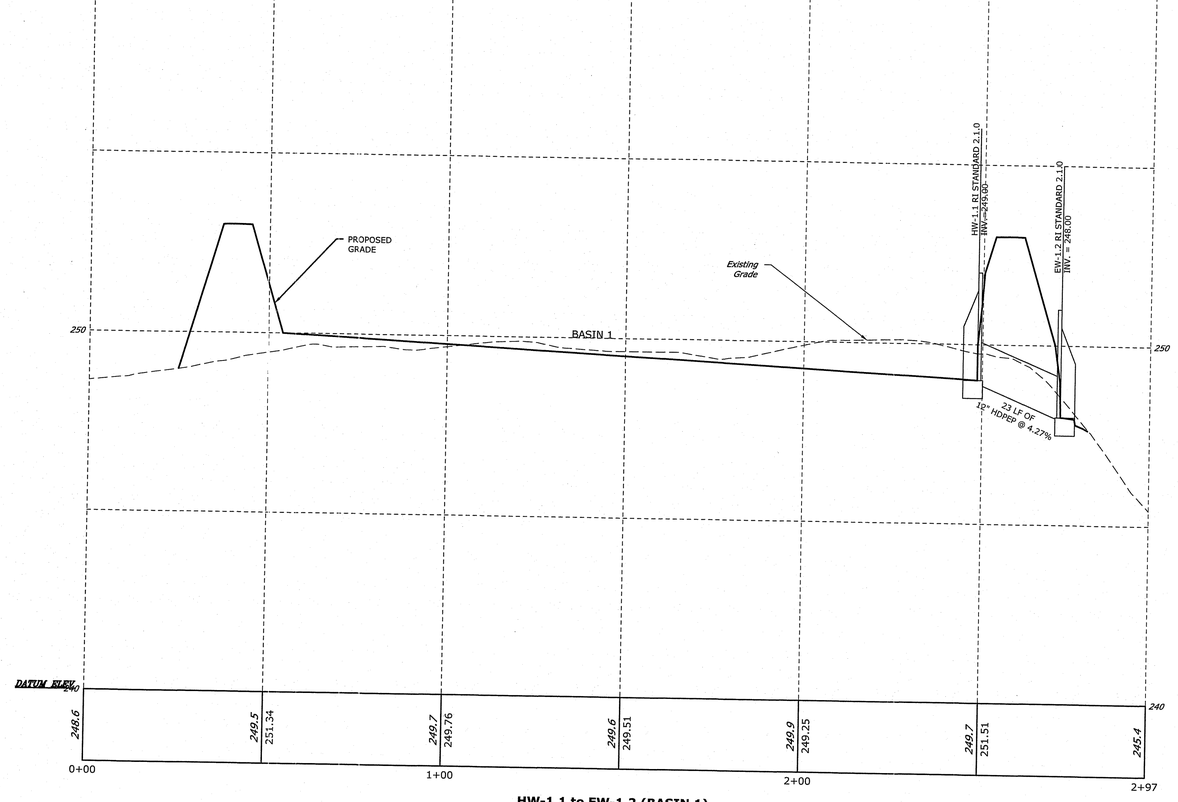


PLAN
SCALE: 1" = 20' H

GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'



HW-1.1 to EW-1.2 (BASIN 1)
HORZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'

GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 — INTERMEDIATE CONTOUR LINES
- 420 — INDEX CONTOUR LINES
- 2.00% — SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

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

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
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TurningPoint Energy

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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DATED SEP 13 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
BASIN 1 - PIPE RUN

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
09/05/19

SCALE:	1" = 20'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5.7

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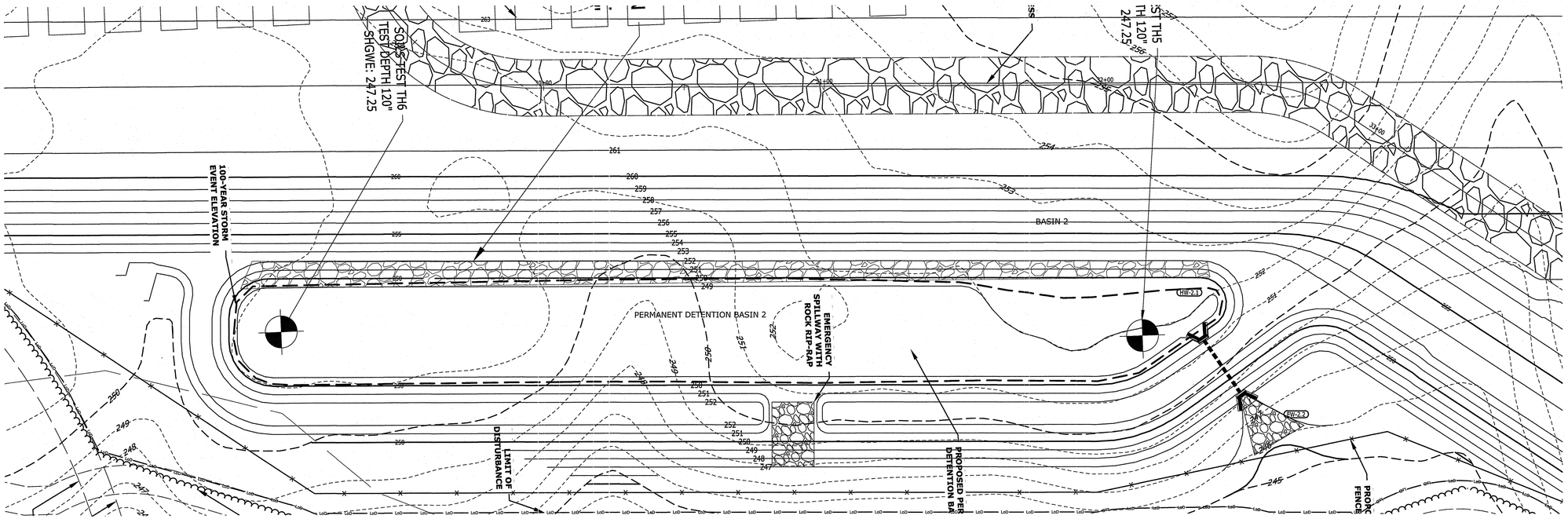
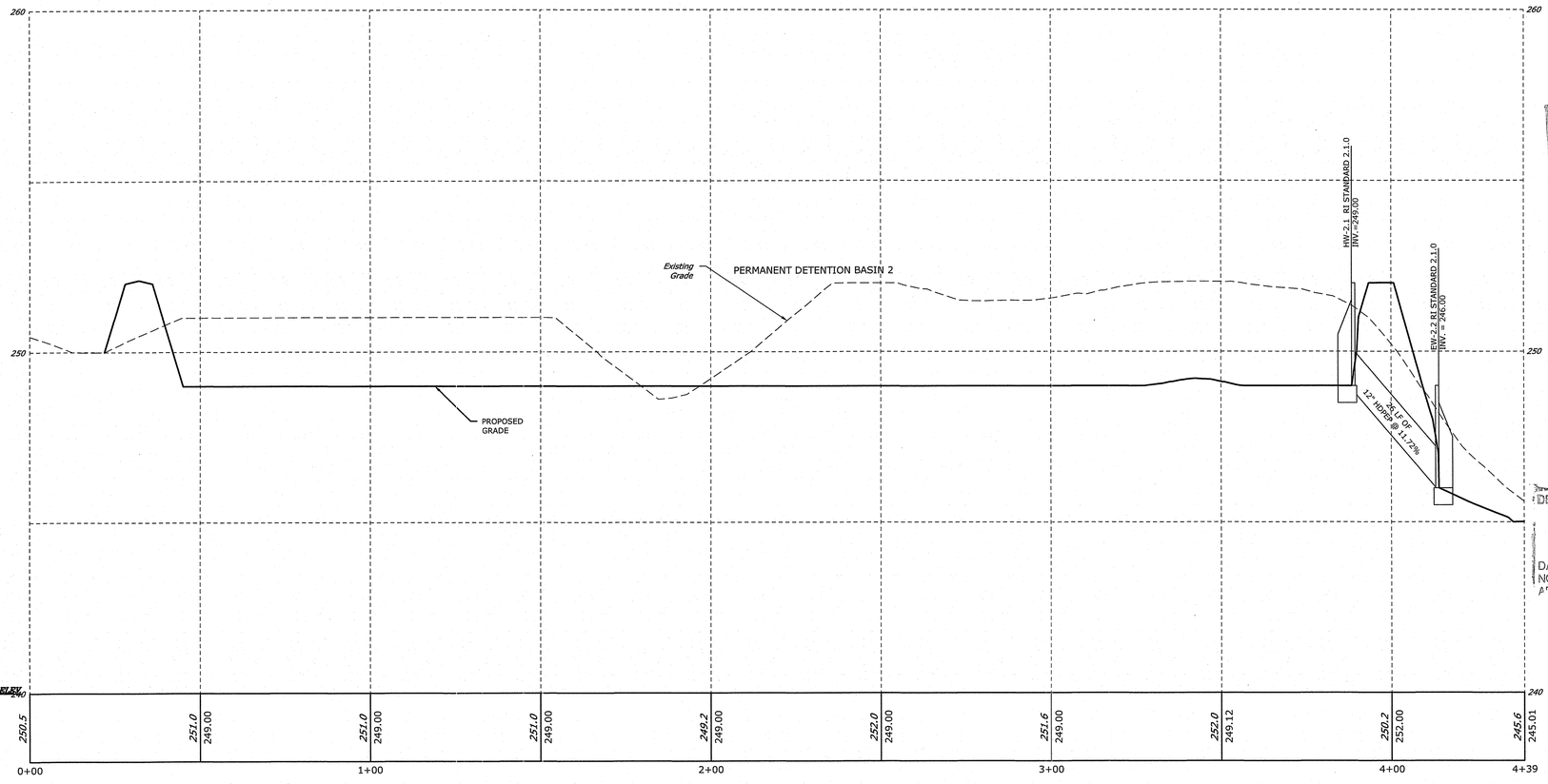


PLAN
SCALE: 1" = 20' H

GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'



HW-2.1 to EW-2.2 (BASIN 2)
HORZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'

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 SEP 13 2019 FILE # 18-014
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Stephen M. Loss

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

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650 Suffolk Street
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Lowell, MA 01854
Tel: (978) 970-5600
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Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
BASIN 2 - PIPE RUN

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 20'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5.8

Stephen M. Loss 06/05/19

XRefs
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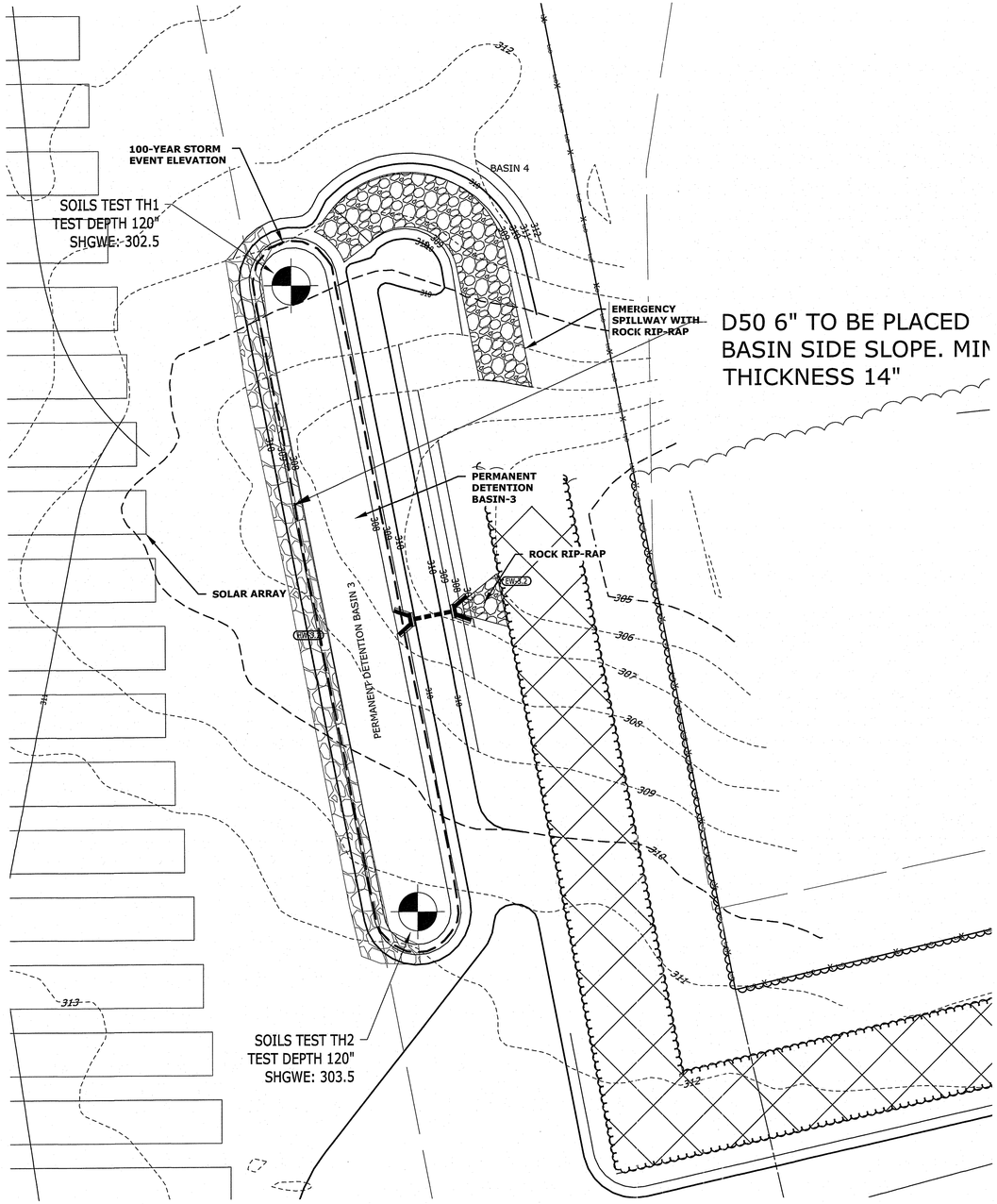
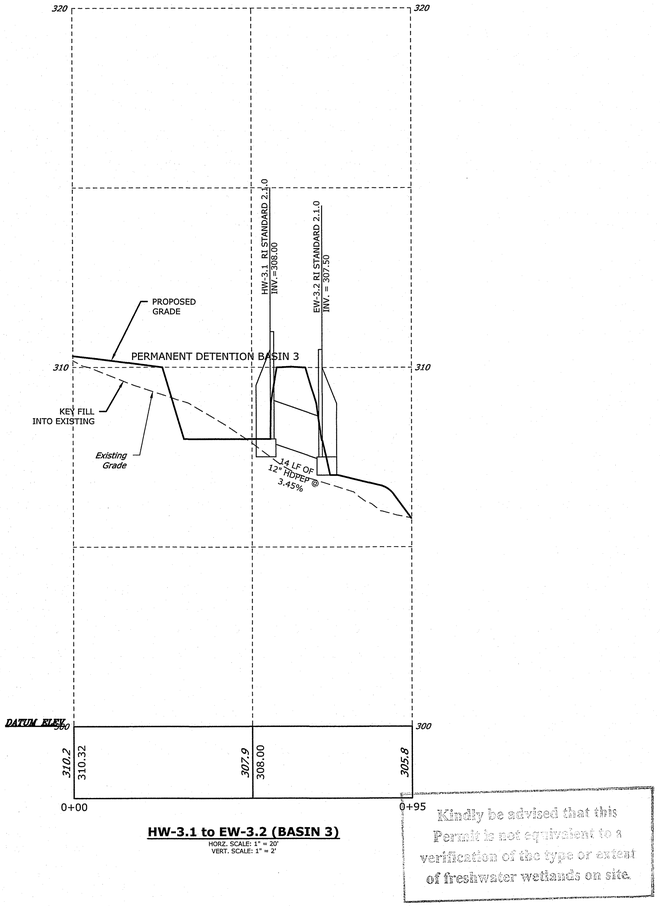


PLAN
SCALE: 1" = 20' H



HW-3.1 to EW-3.2 (BASIN 3)
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'

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 SEP 13 2019 FILE # 18-034
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Signature D. Watrous

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- X FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
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9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

BASIN 3 - PIPE RUN

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
06/05/19

SCALE:	1" = 20'
DATE:	06/05/2019
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5.9

XRefs: ...\Work\North Smithfield\4_xrSITE.dwg ; ...\Work\North Smithfield\03_xrGXF.dwg ; ...\Work\North Smithfield\01_xrTB.dwg ;C:\Depcom Power\North Smithfield - Klop\CAD\Work\North Smithfield\09_xrGRADE.dwg
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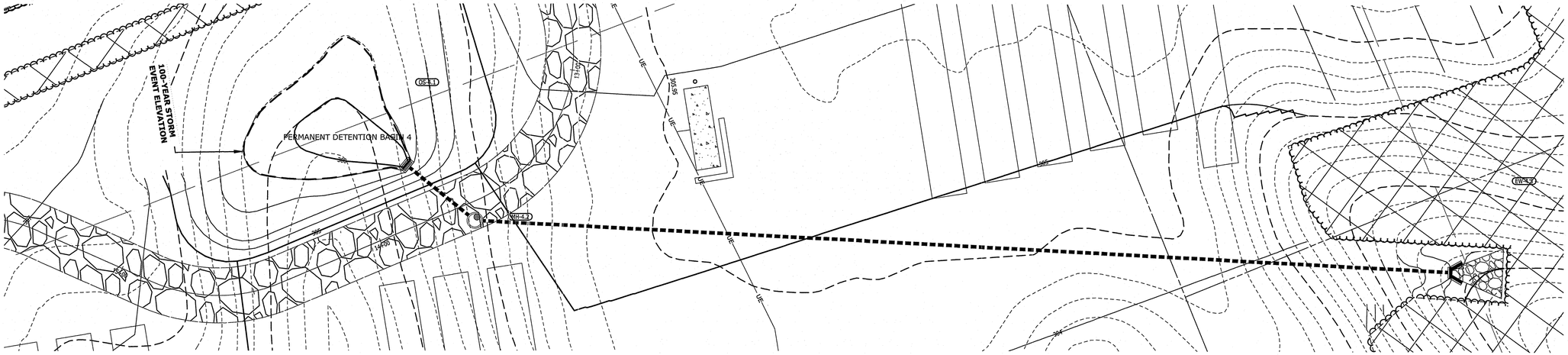
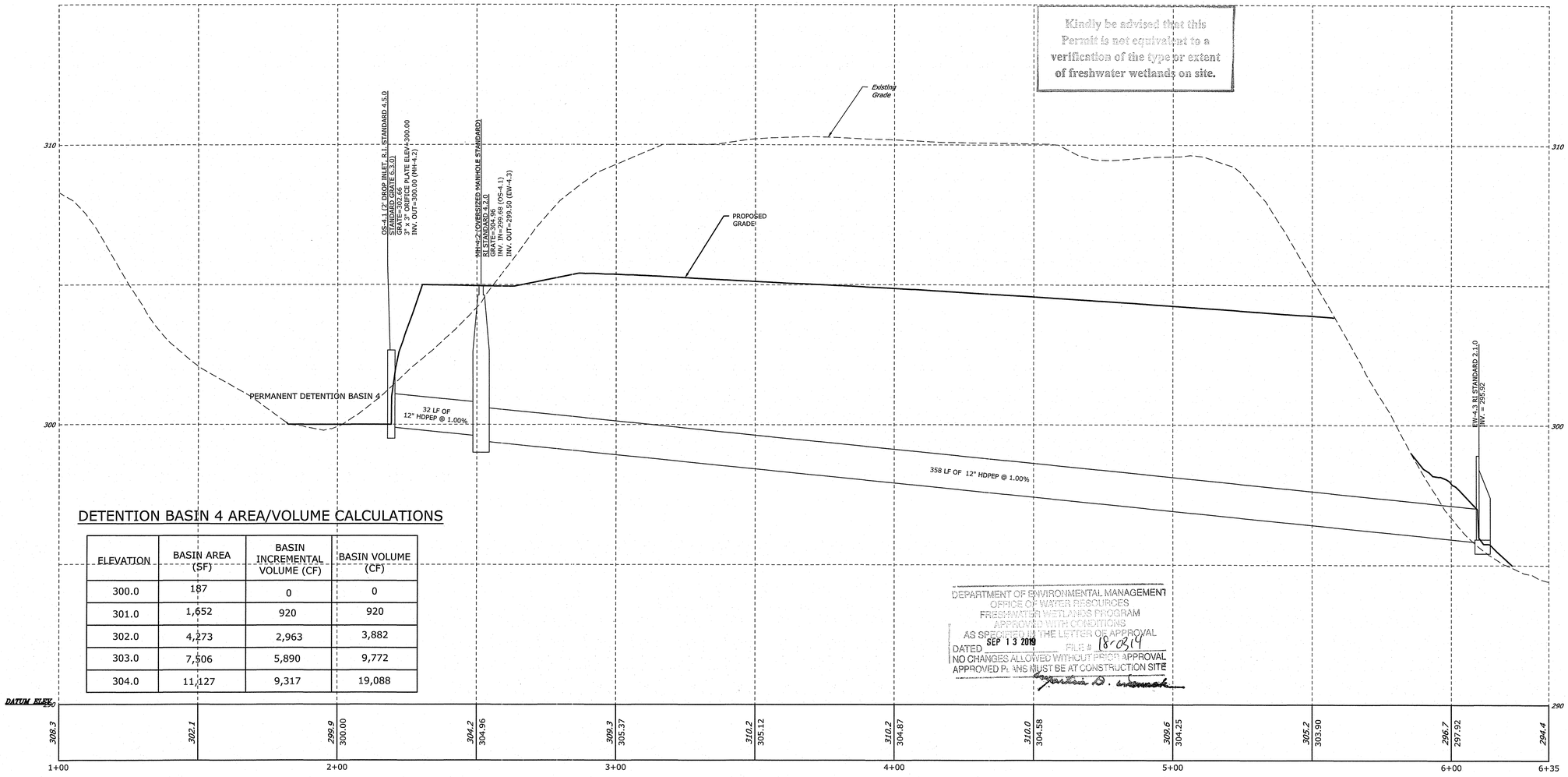


PLAN
SCALE: 1" = 20' H

GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'



OS-4.1 to EW-4.3 (BASIN 4)
HORZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'

DETENTION BASIN 4 AREA/VOLUME CALCULATIONS

ELEVATION	BASIN AREA (SF)	BASIN INCREMENTAL VOLUME (CF)	BASIN VOLUME (CF)
300.0	187	0	0
301.0	1,652	920	920
302.0	4,273	2,963	3,882
303.0	7,506	5,890	9,772
304.0	11,127	9,317	19,088

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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 SEP 13 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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Applicant
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9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
BASIN 4 - PIPE RUN

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
04/05/19

SCALE:	1" = 20'
DATE:	06/05/2019
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5.10

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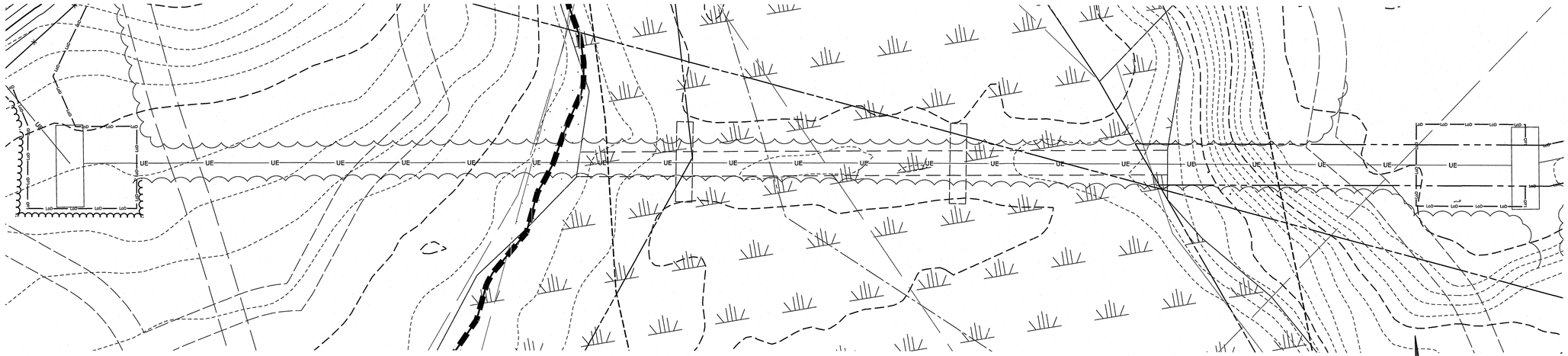
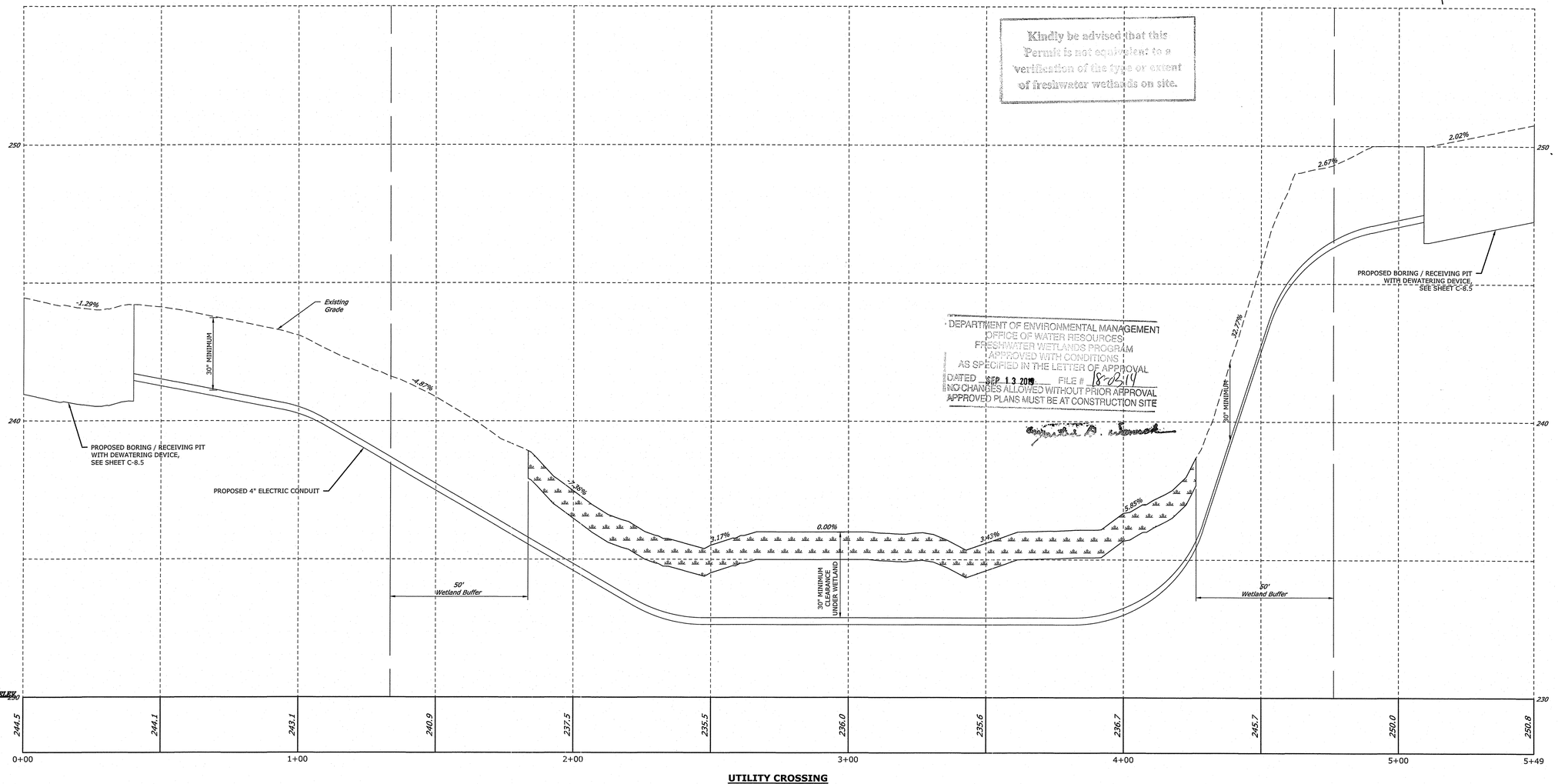


PLAN
SCALE: 1" = 20' H

GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'



UTILITY CROSSING
HORZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'

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 SEP 13 2019 FILE # 18-0214
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

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Tel: (978) 970-5600
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Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
UTILITY CROSSING

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 20'
DATE:	06/05/2019
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-5.11

06/05/19

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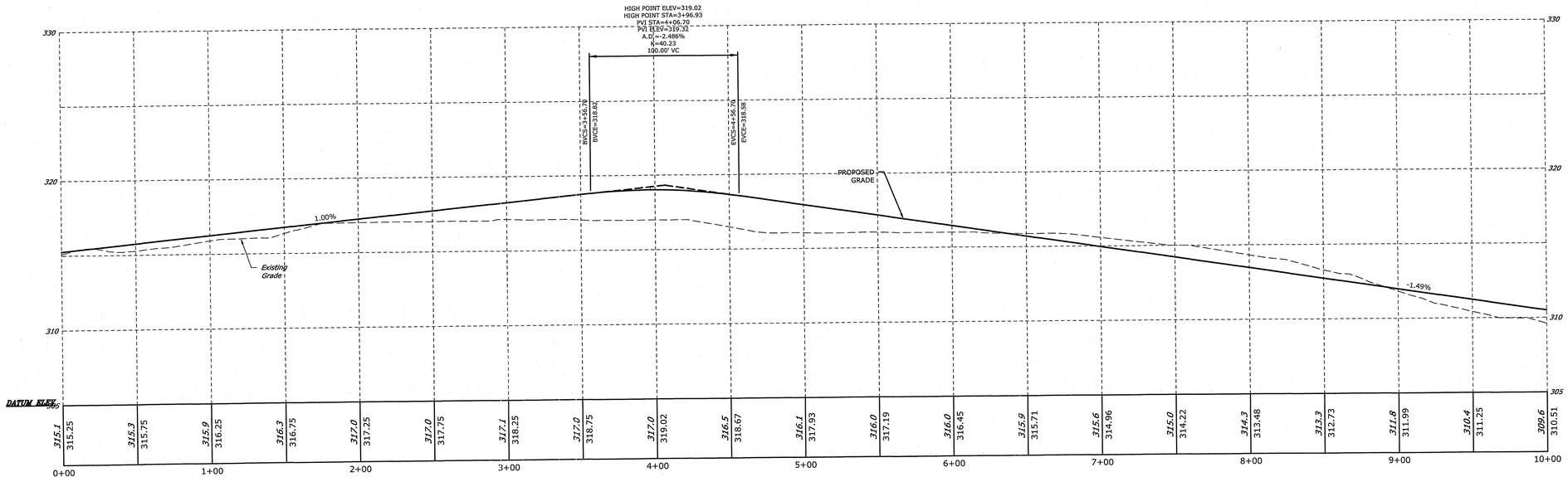

PROPOSED ACCESS DRIVE
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1"=4' V

GRAPHIC SCALE
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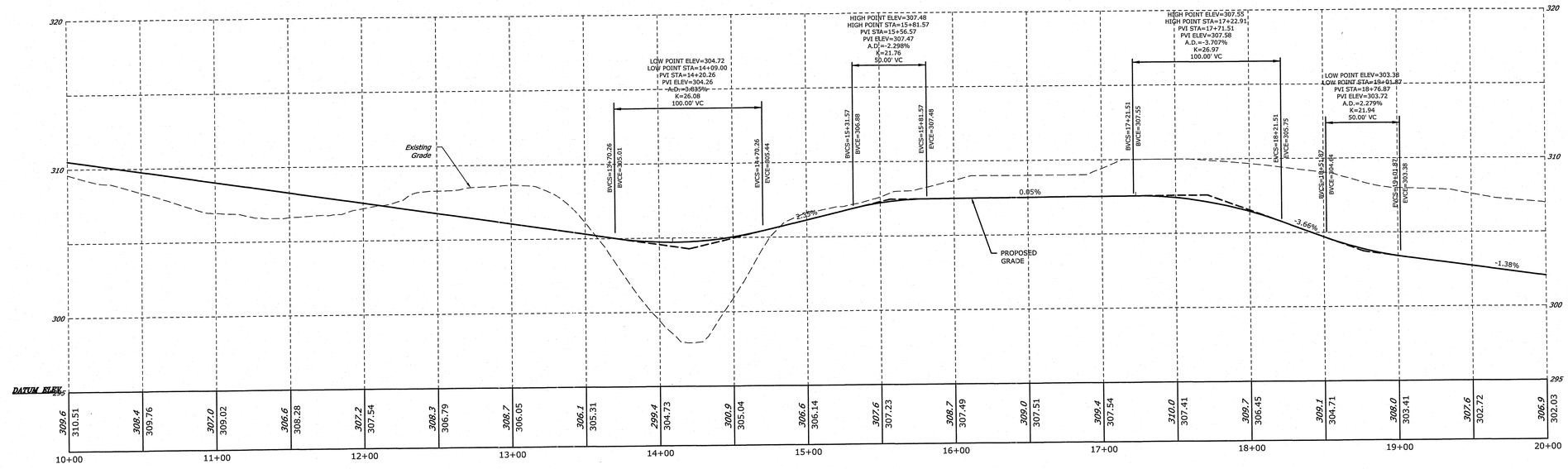
SCALE IN FEET
1" = 40'



PROPOSED ACCESS DRIVE
STA. 10+00 -20+00
SCALE: 1"=40' H
1"=4' V

GRAPHIC SCALE
40' 20' 0 40'
SCALE IN FEET
1" = 40'

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 SEP 19 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Jacqueline D. Edmonds

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CEDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
ACCESS DRIVE PROFILE I

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
06/05/19

SCALE:	AS SHOWN
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-6

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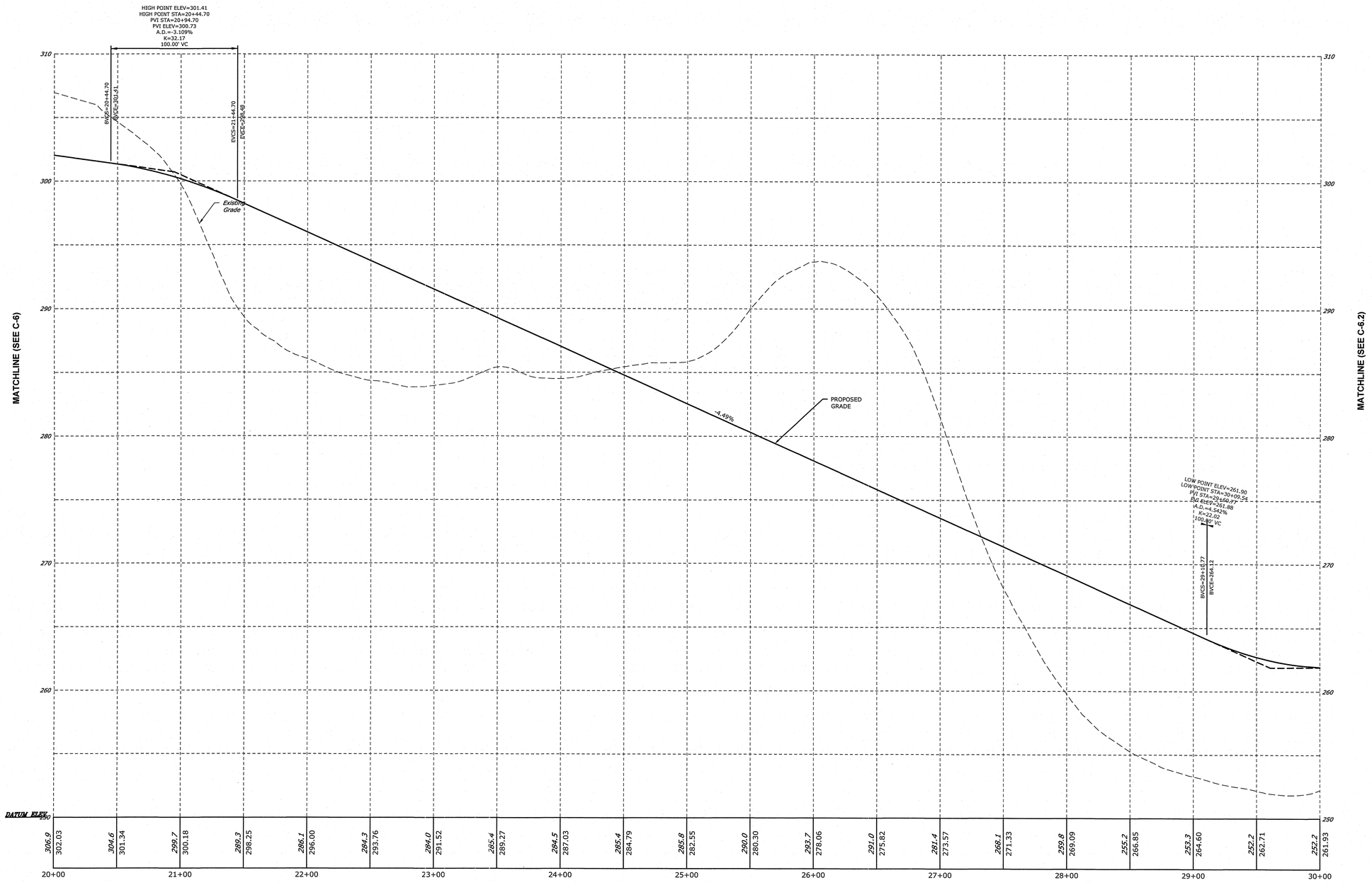

PROPOSED ACCESS DRIVE
STA. 20+00 -30+00
SCALE: 1"=40' H
1"=4' V

GRAPHIC SCALE
40' 20' 0 40'
SCALE IN FEET
1" = 40'

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 SEP 13 2019 FILE # 18-0314
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
ACCESS DRIVE PROFILE II

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
06/05/19

SCALE:	AS SHOWN
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000

DRAWING NO.:
C-6.1

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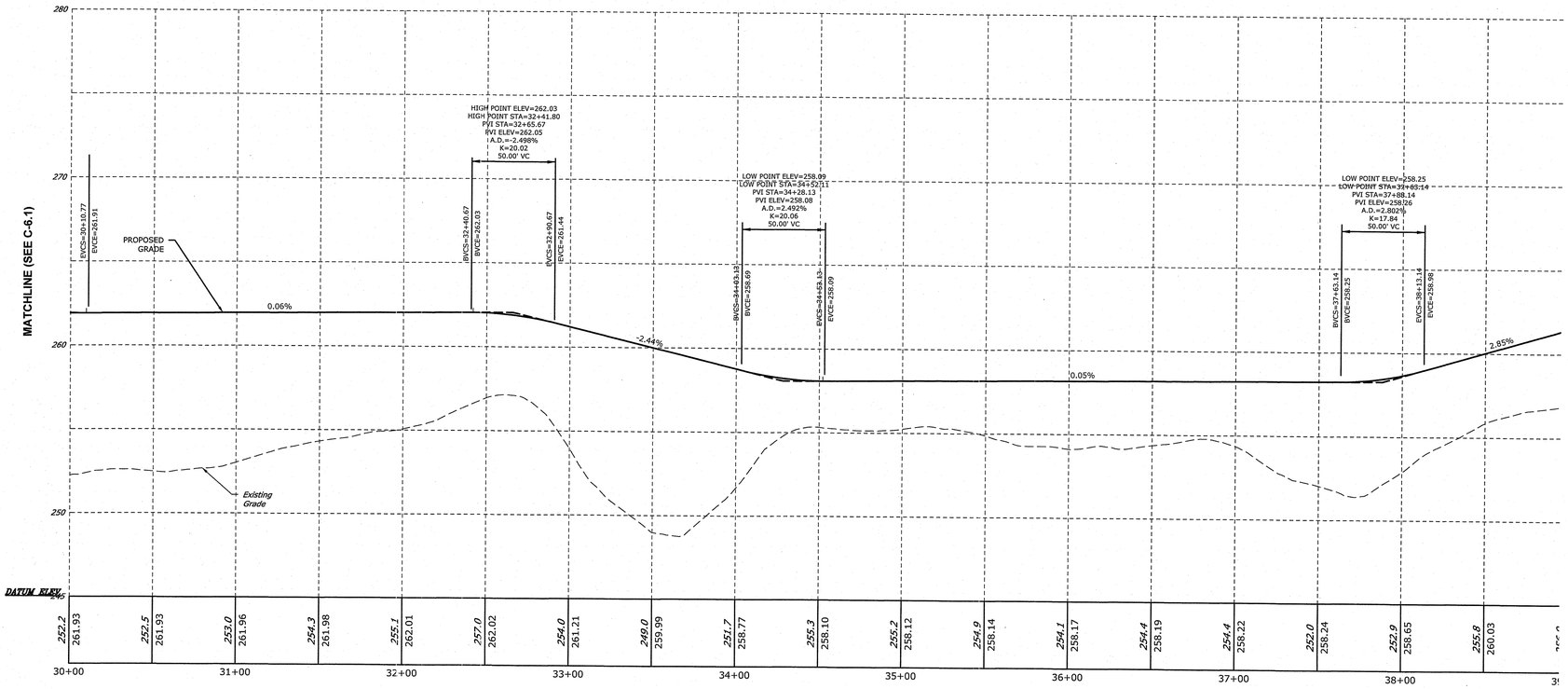

PROPOSED ACCESS DRIVE
STA. 30+00 - 38+00

SCALE: 1"=40' H
1"=4' V

GRAPHIC SCALE
40' 20' 0 40'
SCALE IN FEET
1" = 40'

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 SEP 13 2019 FILE # 18-0374
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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www.TRCcompanies.com
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Applicant
DEPCOM POWER®
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
ACCESS DRIVE PROFILE III

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
06/05/19

SCALE:	AS SHOWN
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-6.2

J:\Depcom Power\North Smithfield - Hwy\[ADATA] Shared\GIS Files\Fig4-2 Access Drive Profile.dwg, 06-11-2019 4:53:03 PM, EST, Duane
XRefs: ...\..\North Smithfield-01_wTB.dwg, ...\..\North Smithfield-00_wGRADE.dwg
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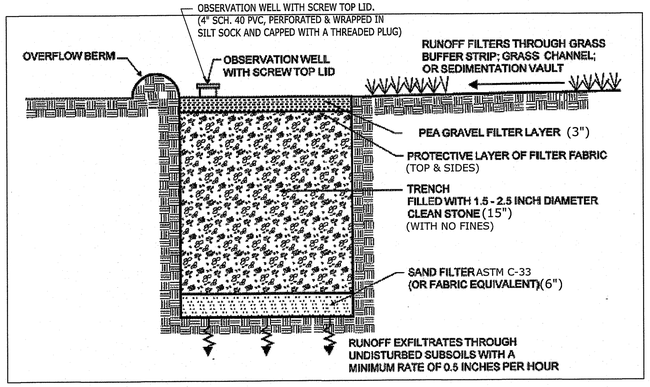


INFILTRATION TRENCH DETAIL

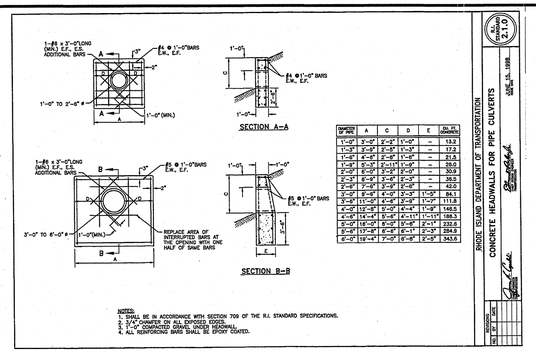
NOT TO SCALE

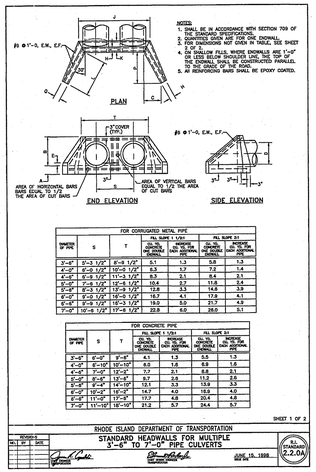
NOTES

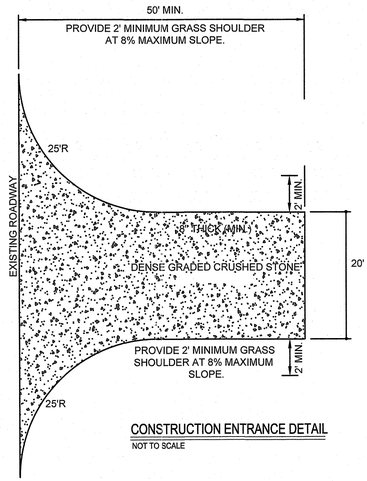
1. INFILTRATION TRENCH CONFORM TO ALL RHODE ISLAND REQUIREMENTS.
2. BOTTOM OF TRENCH MUST BE 2 FEET ABOVE SHGWT
3. FOR ADDITIONAL CONSTRUCTION GUIDANCE SEE SECTION 5.3 OF THE RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL.

INFILTRATION TRENCH DETAILS

TRENCH #	EXISTING TOP ELEVATION	PROPOSED TOP ELEVATION	BOTTOM ELEV. CLEAN STONE	BOTTOM ELEV. SAND FILTER
#1	314.80	314.20	311.70	311.20
#2	315.90	314.50	312.00	311.50
#3	310.30	305.50	303.00	302.50
#4	304.00	282.00	279.50	279.00
#5	305.10	283.25	280.75	280.25
#6	292.00	282.00	279.50	279.00

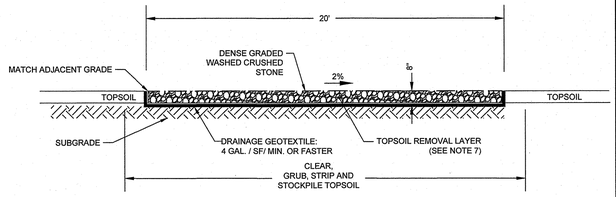






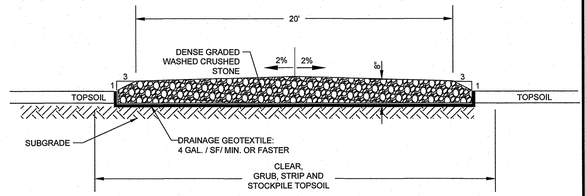
CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE



TYPICAL ACCESS ROAD SECTION - STA 0+00 TO 21+50 AND 29+00 TO END

NOT TO SCALE

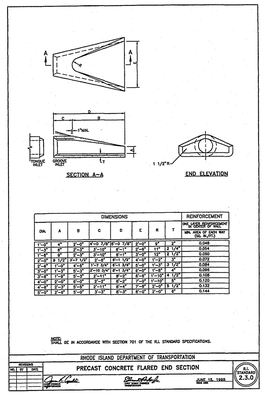


TYPICAL ACCESS ROAD SECTION - STA 21+50 - 29+00

NOT TO SCALE

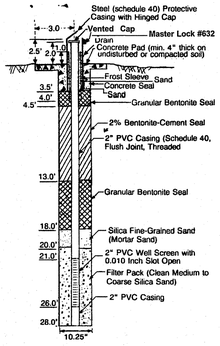
CONSTRUCTION NOTES:

1. SUBGRADE SHALL BE COMPACTED TO 90% OF ASTM D1557.
2. SUBGRADE SHALL BE PROOF ROLLED PRIOR TO THE PLACEMENT OF CRUSHED STONE.
3. GEOTEXTILE SHALL BE MIRAFI 500X OR APPROVED EQUAL.
4. DENSE GRADED CRUSHED STONE SHALL BE M2.01.7. AGGREGATE SHALL DURABLE CRUSHED ROCK CONSISTING OF THE ANGULAR FRAGMENTS OBTAINED BY BREAKING AND CRUSHING SOLID OR SHATTERED NATURAL ROCK, AND FREE FROM A DETRIMENTAL QUANTITY OF THIN, FLAT, ELONGATED, OR OTHER OBJECTIONABLE PIECES. CRUSHED ROCK SHALL BE FREE OF FINES (WASHED)
5. GEOTEXTILE: SEPARATES AND PREVENTS SETTLING BETWEEN SUBGRADE AND GRAVEL SUBBASE.
6. EXISTING SOILS REMOVED FOR ACCESS ROAD CONSTRUCTION WILL BE UTILIZED AS PART OF THE PROJECT GRADING.
7. ALL REMOVED TOPSOIL ASSOCIATED WITH ROAD CONSTRUCTION SHALL BE PRESERVED AND REUSED TO PROVIDE A 4" TO 6" THICK LOAM COVER LAYER ON THE SUBJECT PROJECT SITE, PLANTED WITH DESIRED GRASS COVER.
8. SHGT SEPARATION DISTANCE BENEATH PROPOSED ACCESS DRIVE - THE SEPARATION DISTANCE BETWEEN THE SEASONAL HIGH GROUNDWATER TABLE AND THE TYPICAL ACCESS ROAD SECTION IS IN ACCORDANCE WITH DETAILS PROVIDED IN THESE PLANS AND THE "MANAGEMENT DESIGN AND INSTALLATION RULES", 250-RICR-150-10-8.
9. FOLLOWING THE COMPLETION OF CONSTRUCTION, THE EXPECTED USAGE OF THE ACCESS DRIVE IS APPROXIMATELY TWO (2) VEHICLES PER MONTH.



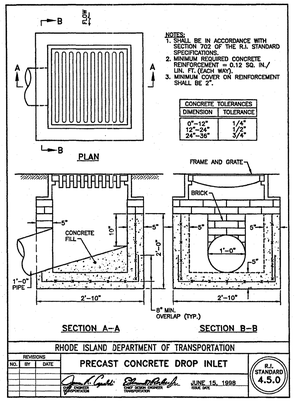
RIP-RAP APRON DETAIL

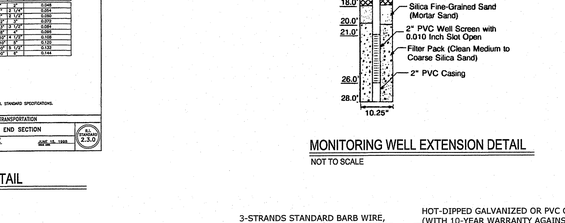
NOT TO SCALE



MONITORING WELL EXTENSION DETAIL

NOT TO SCALE

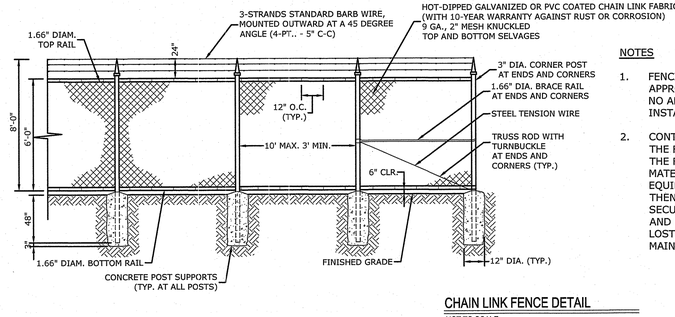




OUTLET NO.	PIPE DIA Pd (IN)	RIPRAP SIZE R:-	RIPRAP THICK. Rt (IN)	RIPRAP LENGTH Al (FT)	APRON INITIAL WIDTH Alw (FT)	APRON TERMINAL WIDTH Atw (FT)
BASIN 1	12	d50 6"	12	20	3	20
BASIN 2	12	d50 6"	12	20	3	20
BASIN 3	6	d50 6"	12	14	1.5	14
EW-4.3	12	d50 6"	12	18	3	18

NOTES:

THE ROCK SIZE, APRON LENGTH AND TERMINAL WIDTH ARE ALL BEYOND THE MINIMAL REQUIREMENTS, AS AS TO FURTHER PREVENT ANY EROSION FROM OCCURRING DOWNSLOPE OF THE APRON. AND ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. APRONS SHALL BE CONSTRUCTED TO RHODE ISLAND STATE REGULATIONS.

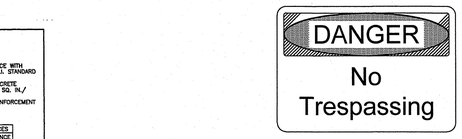


NOTES

1. FENCING SHALL BE INSTALLED WITHIN THE LIMITS OF APPROVED CLEARING AND CONTRACTOR SHALL PERFORM NO ADDITIONAL CLEARING TO ACCOMMODATE FENCE INSTALLATION.
2. CONTRACTOR SHALL COMPLETE THE INSTALLATION OF THE FENCE AND GATE (WITH LOCKS) NOT LATER THAN THE FIRST ARRIVAL OF ANY EQUIPMENT AND/OR MATERIALS AT THE SITE TO ENSURE SITE AND EQUIPMENT SECURITY. IF FENCE IS NOT INSTALLED THEN, CONTRACTOR HAS THE SOLE RESPONSIBILITY OF SECURING EQUIPMENT AND MATERIALS BY OTHER MEANS AND FOR REPLACING ANY EQUIPMENT AND MATERIALS IF LOST, STOLEN OR DAMAGED. CONTRACTOR SHALL MAINTAIN FENCE UNTIL SUBSTANTIAL COMPLETION.

CHAIN LINK FENCE DETAIL

NOT TO SCALE

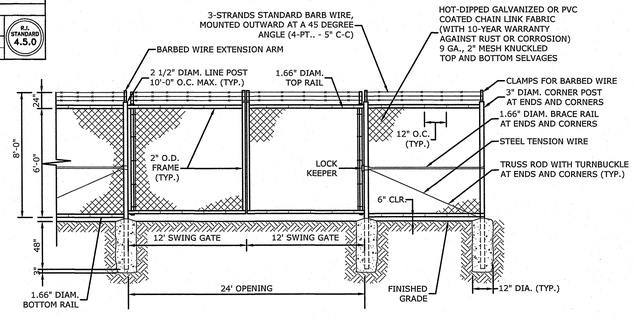


NOTES

1. SIGNS SHALL CONFORM TO THE 2013 OSHA AND ANSI REQUIREMENTS.
2. SIGNS SHALL BE 20" WIDE BY 14" HIGH.
3. SIGNS SHALL HAVE A MOUNTING HEIGHT OF BETWEEN 45 TO 66 INCHES.
4. SIGN PANELS SHALL BE 10 GAUGE ALUMINUM WITH HIGH VISIBILITY REFLECTIVE SHEETING.

DANGER SIGNS

NOT TO SCALE



24' VEHICULAR GATE DETAIL

NOT TO SCALE

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 SEP 13 2019 FILE # 18-0319
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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Lowell, MA 01854
Tel: (978) 970-5600
www.TRCcompanies.com

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Applicant

DEPCOM POWER®
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

CONSTRUCTION DETAILS

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	AS SHOWN
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-7

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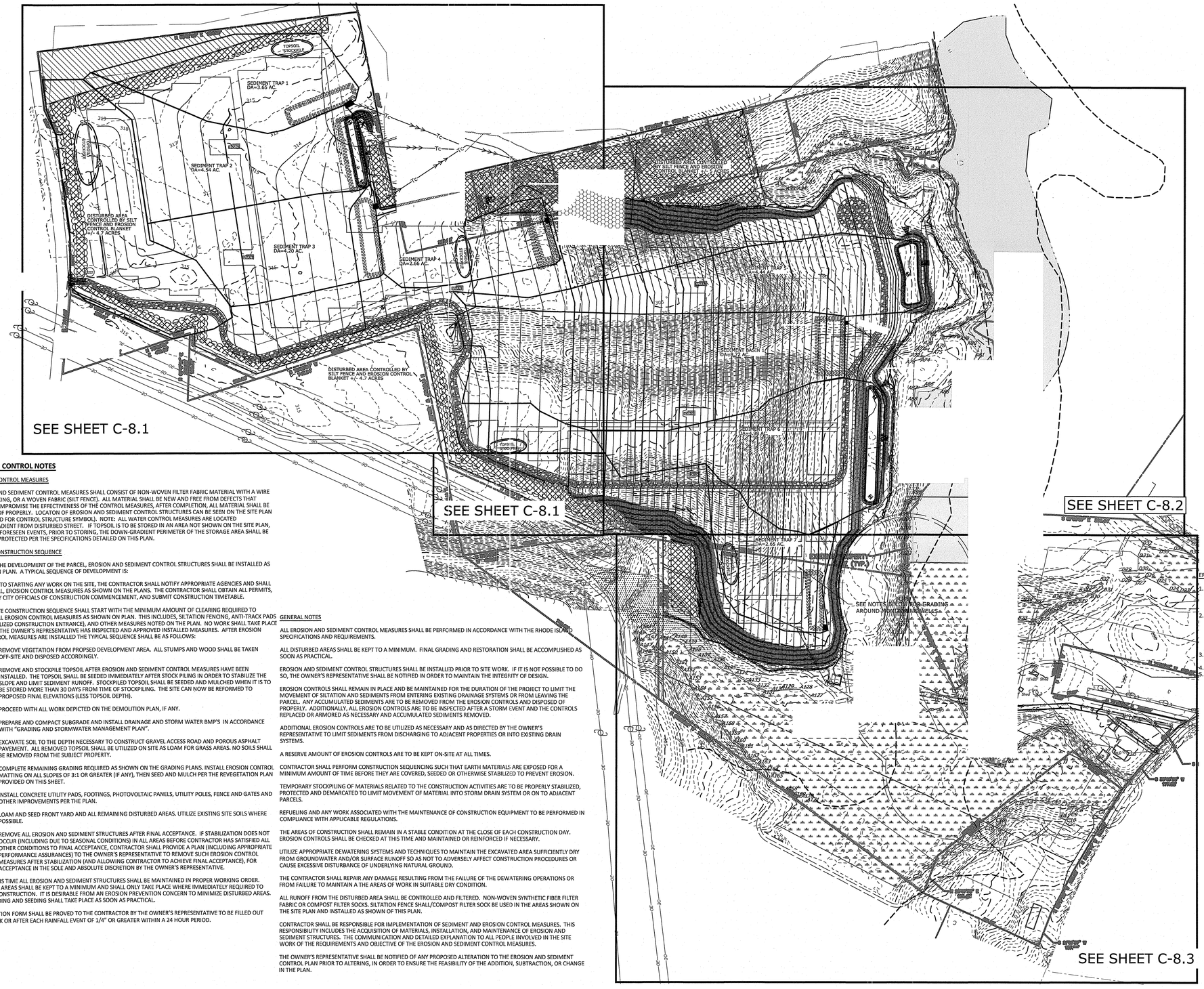

EROSION CONTROL NOTES

EROSION CONTROL MEASURES

EROSION AND SEDIMENT CONTROL MEASURES SHALL CONSIST OF NON-WOVEN FILTER FABRIC MATERIAL WITH A WIRE MESH BACKING, OR A WOVEN FABRIC (SILT FENCE). ALL MATERIAL SHALL BE NEW AND FREE FROM DEFECTS THAT WOULD COMPROMISE THE EFFECTIVENESS OF THE CONTROL MEASURES, AFTER COMPLETION, ALL MATERIAL SHALL BE DISPOSED OF PROPERLY. LOCATON OF EROSION AND SEDIMENT CONTROL STRUCTURES CAN BE SEEN ON THE SITE PLAN (SEE LEGEND FOR CONTROL STRUCTURE SYMBOL). NOTE: ALL WATER CONTROL MEASURES ARE LOCATED DOWN-GRADIENT FROM DISTURBED STREET. IF TOPSOIL IS TO BE STORED IN AN AREA NOT SHOWN ON THE SITE PLAN, DUE TO UNFORESEEN EVENTS, PRIOR TO STORING, THE DOWN-GRADIENT PERIMETER OF THE STORAGE AREA SHALL BE PROPERLY PROTECTED PER THE SPECIFICATIONS DETAILED ON THIS PLAN.

TYPICAL CONSTRUCTION SEQUENCE

PRIOR TO THE DEVELOPMENT OF THE PARCEL, EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSTALLED AS SHOWN ON PLAN. A TYPICAL SEQUENCE OF DEVELOPMENT IS:

1. PRIOR TO STARTING ANY WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL, EROSION CONTROL MEASURES AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL OBTAIN ALL PERMITS, NOTIFY CITY OFFICIALS OF CONSTRUCTION COMMENCEMENT, AND SUBMIT CONSTRUCTION TIMETABLE.
2. ON-SITE CONSTRUCTION SEQUENCE SHALL START WITH THE MINIMUM AMOUNT OF CLEARING REQUIRED TO INSTALL EROSION CONTROL MEASURES AS SHOWN ON PLAN. THIS INCLUDES, SILTATION FENCING, ANTI-TRACK PADS (STABILIZED CONSTRUCTION ENTRANCE), AND OTHER MEASURES NOTED ON THE PLAN. NO WORK SHALL TAKE PLACE UNTIL THE OWNER'S REPRESENTATIVE HAS INSPECTED AND APPROVED INSTALLED MEASURES. AFTER EROSION CONTROL MEASURES ARE INSTALLED THE TYPICAL SEQUENCE SHALL BE AS FOLLOWS:
   a. REMOVE VEGETATION FROM PROPSED DEVELOPMENT AREA. ALL STUMPS AND WOOD SHALL BE TAKEN OFF-SITE AND DISPOSED ACCORDINGLY.
   b. REMOVE AND STOCKPILE TOPSOIL AFTER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED. THE TOPSOIL SHALL BE SEEDED IMMEDIATELY AFTER STOCK PILING IN ORDER TO STABILIZE THE SLOPE AND LIMIT SEDIMENT RUNOFF. STOCKPILED TOPSOIL SHALL BE SEEDED AND MULCHED WHEN IT IS TO BE STORED MORE THAN 30 DAYS FROM TIME OF STOCKPILING. THE SITE CAN NOW BE REFORMED TO PROPOSED FINAL ELEVATIONS (LESS TOPSOIL DEPTH).
   c. PROCEED WITH ALL WORK DEPICTED ON THE DEMOLITION PLAN, IF ANY.
   d. PREPARE AND COMPACT SUBGRADE AND INSTALL DRAINAGE AND STORM WATER BMP'S IN ACCORDANCE WITH "GRADING AND STORMWATER MANAGEMENT PLAN".
   e. EXCAVATE SOIL TO THE DEPTH NECESSARY TO CONSTRUCT GRAVEL ACCESS ROAD AND POROUS ASPHALT PAVEMENT. ALL REMOVED TOPSOIL SHALL BE UTILIZED ON SITE AS LOAM FOR GRASS AREAS. NO SOILS SHALL BE REMOVED FROM THE SUBJECT PROPERTY.
   h. COMPLETE REMAINING GRADING REQUIRED AS SHOWN ON THE GRADING PLANS. INSTALL EROSION CONTROL MATTING ON ALL SLOPES OF 3:1 OR GREATER (IF ANY), THEN SEED AND MULCH PER THE REVEGETATION PLAN PROVIDED ON THIS SHEET.
   i. INSTALL CONCRETE UTILITY PADS, FOOTINGS, PHOTOVOLTAIC PANELS, UTILITY POLES, FENCE AND GATES AND OTHER IMPROVEMENTS PER THE PLAN.
   j. LOAM AND SEED FRONT YARD AND ALL REMAINING DISTURBED AREAS. UTILIZE EXISTING SITE SOILS WHERE POSSIBLE.
   k. REMOVE ALL EROSION AND SEDIMENT STRUCTURES AFTER FINAL ACCEPTANCE. IF STABILIZATION DOES NOT OCCUR (INCLUDING DUE TO SEASONAL CONDITIONS) IN ALL AREAS BEFORE CONTRACTOR HAS SATISFIED ALL OTHER CONDITIONS TO FINAL ACCEPTANCE, CONTRACTOR SHALL PROVIDE A PLAN (INCLUDING APPROPRIATE PERFORMANCE ASSURANCES) TO THE OWNER'S REPRESENTATIVE TO REMOVE SUCH EROSION CONTROL MEASURES AFTER STABILIZATION (AND ALLOWING CONTRACTOR TO ACHIEVE FINAL ACCEPTANCE), FOR ACCEPTANCE IN THE SOLE AND ABSOLUTE DISCRETION BY THE OWNER'S REPRESENTATIVE.

DURING THIS TIME ALL EROSION AND SEDIMENT STRUCTURES SHALL BE MAINTAINED IN PROPER WORKING ORDER. DISTURBED AREAS SHALL BE KEPT TO A MINIMUM AND SHALL ONLY TAKE PLACE WHERE IMMEDIATELY REQUIRED TO FURTHER CONSTRUCTION. IT IS DESIRABLE FROM AN EROSION PREVENTION CONCERN TO MINIMIZE DISTURBED AREAS. FINAL GRADING AND SEEDING SHALL TAKE PLACE AS SOON AS PRACTICAL.

AN INSPECTION FORM SHALL BE PROVED TO THE CONTRACTOR BY THE OWNER'S REPRESENTATIVE TO BE FILLED OUT EVERY WEEK OR AFTER EACH RAINFALL EVENT OF 1/4" OR GREATER WITHIN A 24 HOUR PERIOD.

GENERAL NOTES

ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PERFORMED IN ACCORDANCE WITH THE RHODE ISLAND SPECIFICATIONS AND REQUIREMENTS.

ALL DISTURBED AREAS SHALL BE KEPT TO A MINIMUM. FINAL GRADING AND RESTORATION SHALL BE ACCOMPLISHED AS SOON AS PRACTICAL.

EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO SITE WORK. IF IT IS NOT POSSIBLE TO DO SO, THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IN ORDER TO MAINTAIN THE INTEGRITY OF DESIGN.

EROSION CONTROLS SHALL REMAIN IN PLACE AND BE MAINTAINED FOR THE DURATION OF THE PROJECT TO LIMIT THE MOVEMENT OF SILTATION AND SEDIMENTS FROM ENTERING EXISTING DRAINAGE SYSTEMS OR FROM LEAVING THE PARCEL. ANY ACCUMULATED SEDIMENTS ARE TO BE REMOVED FROM THE EROSION CONTROLS AND DISPOSED OF PROPERLY. ADDITIONALLY, ALL EROSION CONTROLS ARE TO BE INSPECTED AFTER A STORM EVENT AND THE CONTROLS REPLACED OR ARMORED AS NECESSARY AND ACCUMULATED SEDIMENTS REMOVED.

ADDITIONAL EROSION CONTROLS ARE TO BE UTILIZED AS NECESSARY AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE TO LIMIT SEDIMENTS FROM DISCHARGING TO ADJACENT PROPERTIES OR INTO EXISTING DRAIN SYSTEMS.

A RESERVE AMOUNT OF EROSION CONTROLS ARE TO BE KEPT ON-SITE AT ALL TIMES.

CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM AMOUNT OF TIME BEFORE THEY ARE COVERED, SEEDED OR OTHERWISE STABILIZED TO PREVENT EROSION.

TEMPORARY STOCKPILING OF MATERIALS RELATED TO THE CONSTRUCTION ACTIVITIES ARE TO BE PROPERLY STABILIZED, PROTECTED AND DEMARCATED TO LIMIT MOVEMENT OF MATERIAL INTO STORM DRAIN SYSTEM OR ON TO ADJACENT PARCELS.

REFUELING AND ANY WORK ASSOCIATED WITH THE MAINTENANCE OF CONSTRUCTION EQUIPMENT TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE REGULATIONS.

THE AREAS OF CONSTRUCTION SHALL REMAIN IN A STABLE CONDITION AT THE CLOSE OF EACH CONSTRUCTION DAY. EROSION CONTROLS SHALL BE CHECKED AT THIS TIME AND MAINTAINED OR REINFORCED IF NECESSARY.

UTILIZE APPROPRIATE DEWATERING SYSTEMS AND TECHNIQUES TO MAINTAIN THE EXCAVATED AREA SUFFICIENTLY DRY FROM GROUNDWATER AND/OR SURFACE RUNOFF SO AS NOT TO ADVERSELY AFFECT CONSTRUCTION PROCEDURES OR CAUSE EXCESSIVE DISTURBANCE OF UNDERLYING NATURAL GROUND.

THE CONTRACTOR SHALL REPAIR ANY DAMAGE RESULTING FROM THE FAILURE OF THE DEWATERING OPERATIONS OR FROM FAILURE TO MAINTAIN A THE AREAS OF WORK IN SUITABLE DRY CONDITION.

ALL RUNOFF FROM THE DISTURBED AREA SHALL BE CONTROLLED AND FILTERED. NON-WOVEN SYNTHETIC FIBER FILTER FABRIC OR COMPOST FILTER SOCKS. SILTATION FENCE SHALL/COMPOST FILTER SOCK BE USED IN THE AREAS SHOWN ON THE SITE PLAN AND INSTALLED AS SHOWN OF THIS PLAN.

CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF SEDIMENT AND EROSION CONTROL MEASURES. THIS RESPONSIBILITY INCLUDES THE ACQUISITION OF MATERIALS, INSTALLATION, AND MAINTENANCE OF EROSION AND SEDIMENT STRUCTURES. THE COMMUNICATION AND DETAILED EXPLANATION TO ALL PEOPLE INVOLVED IN THE SITE WORK OF THE REQUIREMENTS AND OBJECTIVE OF THE EROSION AND SEDIMENT CONTROL MEASURES.

THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED OF ANY PROPOSED ALTERATION TO THE EROSION AND SEDIMENT CONTROL PLAN PRIOR TO ALTERING, IN ORDER TO ENSURE THE FEASIBILITY OF THE ADDITION, SUBTRACTION, OR CHANGE IN THE PLAN.

SOILS INFORMATION

AfA,
0 TO 3 PERCENT SLOPES
AWAGWAM FINE SANDY LOAM

CtB,
3 TO 8 PERCENT SLOPES
CANTON AND CHARLTON FINE SANDY LOAMS

CeC,
3 TO 15 PERCENT SLOPES
CANTON AND CHARLTON FINE SANDY LOAMS

ChD,
15 TO 25 PERCENT SLOPES
CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS

Du,
DUMPS

FeA,
0 TO 1 PERCENT SLOPES
FREETOWN MUCK

HrA,
0 TO 3 PERCENT SLOPES
HINCKLEY LOAMY SAND

HkC,
8 TO 15 PERCENT SLOPES
HINCKLEY LOAMY SAND

HkD,
15 TO 25 PERCENT SLOPES
HINCKLEY LOAMY SAND

MmB,
3 TO 8 PERCENT SLOPES
MERRICMAC FINE

MU,
0 TO 8 PERCENT SLOPES
MERRIMAC-URBAN LAND COMPLEX

Pg,
PITS, GRAVEL

Rf,
0 TO 8 PERCENT SLOPES
RIDGEBURY, LEICESTER AND WHITMAN SOILS, EXTREMELY STONEY

Sb,
0 TO 3 PERCENT SLOPES
SCARBORO MUCKY FINE SANDY LOAM

Ss,
SUDBURY SANDY LOAM

StB,
3 TO 8 PERCENT SLOPES
SUTTON FINE SANDY LOAM

SwA,
0 TO 1 PERCENT SLOPES
SWANSEA MUCK

W,
WATER

WpB,
0 TO 3 PERCENT SLOPES
WALPOLE SANDY LOAM

WpA,
0 TO 3 PERCENT SLOPES
WINDSOR LOAMY SAND

WgB,
3 TO 8 PERCENT SLOPES
WINDSOR LOAMY SAND

EROSION CONTROL CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL UTILIZE COMPOST FILTER SOCK AND/OR EROSION CONTROL BLANKETS TO MINIMIZE POTENTIAL EROSION DURING CONSTRUCTION AND STABILIZATION OF ALL FILL SLOPES (SEE DETAILS AND GUIDANCE ON SHEET C-8.4 & C8.5)
2. MAXIMUM PROPOSED SLOPES WITHIN ARRAY AREAS IS LESS THAN 5%, AS SUCH COMPOST FILTER SOCK SHALL BE PLACED AT APPROPRIATE INTERVALS DURING CONSTRUCTION AND EARTH MOVING ACTIVITIES. CONTRACTOR SHALL UTILIZE THE DESIGN CHART AND NOTES PROVIDED ON DETAIL SHEET C-8.4 FOR REQUIRED SOCK SIZE AND SEPARATION DISTANCE TO ENSURE PROPER EROSION & SEDIMENT CONTROL.
3. CONTRACTOR SHALL CONSULT STABILIZATION AND FILL NOTES & DETAILS ON SHEET C-8.4
4. NO FERTILIZER IS TO BE USED FOR SEEDING.
5. ALL SLOPES GREATER THAT 20% SHALL BE STABILIZED WITH SLOPE BLANKET AND COMPOST FILTER SOCK INSTALLED AT TOE OF SLOPE. CONTRACTOR SHALL UTILIZED DETAILS AND DESIGN PARAMETERS AS SHOWN ON SHEET C-8.4.

OWNER SIGNATURE DATE

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED E&S CONTROL PLAN FEATURES

- STABILIZED ROCK CONSTRUCTION ENTRANCE
- SOIL MATERIAL STOCKPILE
- SF SF STANDARD SILT FENCE (18" HIGH)
- SS SS SILT SOCKS
- RIPRAP
- EROSION CONTROL MATTING
- LoD LoD LoD LoD LIMIT OF DISTURBANCE

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
AUTHORIZED ACTIVITIES
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 13 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING, 6201 SE MONTICELLO TERRACE, MARTIN, FL 33455
ALFRED M CARON, PO BOX 869, SLATERSVILLE, RI 02876
WALLACE AND DOROTHY STONE, 55 CIDAR MILL ROAD, NORTH SMITHFIELD, RI 02896

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Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
OVERALL EROSION & SEDIMENTATION CONTROL PLAN

GRAPHIC SCALE
150' 75' 0 150'
SCALE IN FEET
1" = 150'

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 150'
DATE:	06/05/2019
DRAWN BY:	TKM
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-8

S:\Depcom Power\North Smithfield - Xing\CAD\Plot Sheets\DPC Files\C-8 Erosion & Sedimentation Control Plan.dwg 06-11-2019 4:18:17 PM By: Sam
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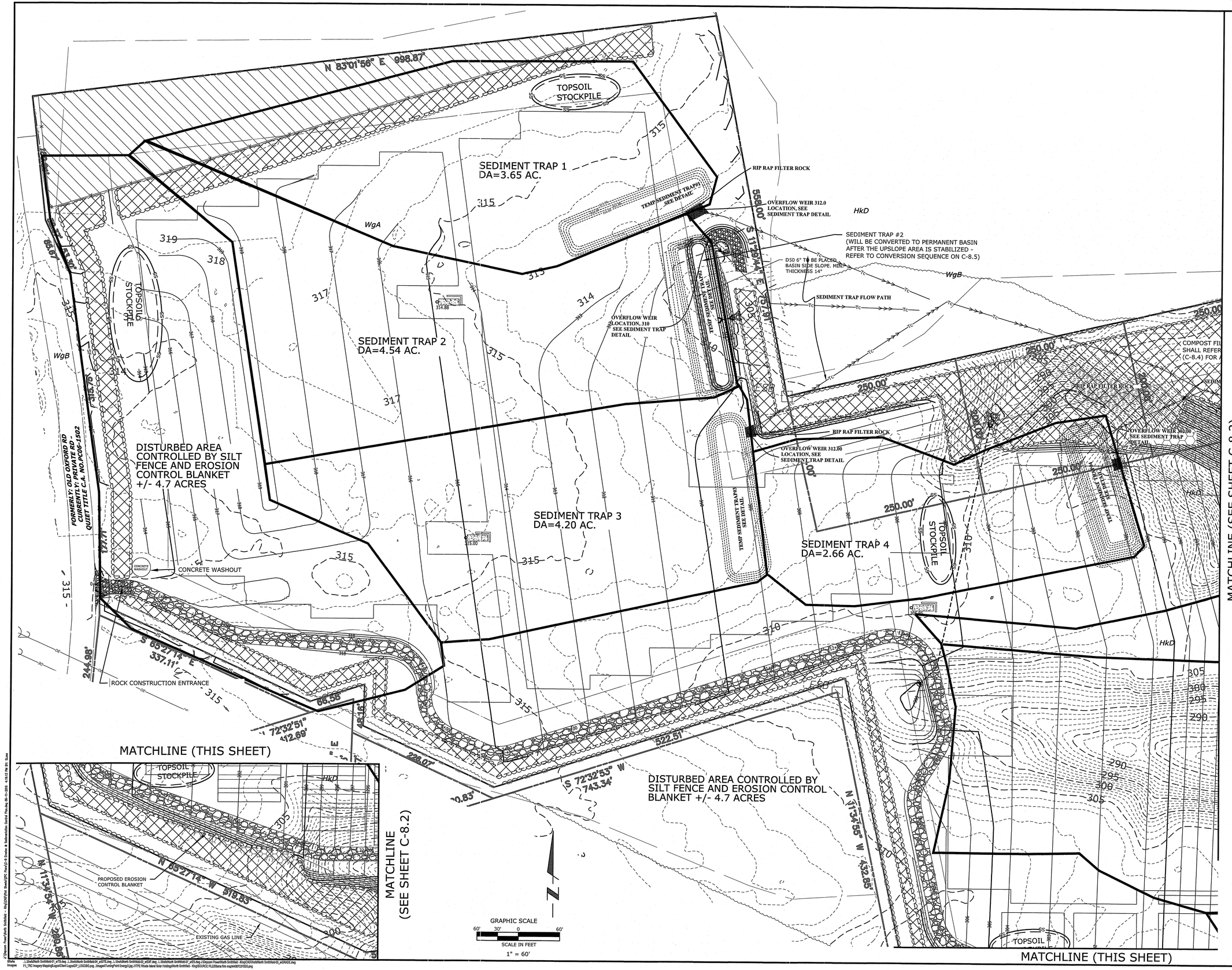
Images: FI_TRC Imagery Mapping\Logos\Client Logos\DP_LOGO80.png, ...\Images\TurningPoint Energy\Log ATERE Florida Island Solar Holdings\North Smithfield - Xing\SOURCE FILES\Base Rim map\NSRI1DR50.png



LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED E&S CONTROL PLAN FEATURES

- STABILIZED ROCK CONSTRUCTION ENTRANCE
- SOIL MATERIAL STOCKPILE
- SF SF STANDARD SILT FENCE (18" HIGH)
- SS SILT SOCKS
- RIPRAP
- EROSION CONTROL MATTING
- LoD LIMIT OF DISTURBANCE

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 SEP 13 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
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Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
EROSION & SEDIMENTATION CONTROL PLAN - WEST

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 60'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-8.1

Xrefs Imagest: ...\Work\North Smithfield\...

MATCHLINE (SEE SHEET C-8.1)

PROPOSED FENCE

100' SOLAR ARRAY SETBACK

PROPOSED SILT FENCE

PROPOSED EROSION CONTROL BLANKET

SOCK. CONTRACTOR ESIGN CHART ON SHEET OPRIATELY SIZED FILTER

RAP FLOW PATH

PROPOSED COMPOST FILTER SOCK

PROPOSED EROSION CONTROL BLANKET

PROPOSED SILT FENCE

DISTURBED AREA CONTROLLED BY SILT FENCE AND EROSION CONTROL BLANKET +/- 5 ACRES

Trout Brook Pond (Open Water)

PROPOSED SILT FENCE

RIPRAP APRON

RIP-RAP SPILLWAY LINING

50' WETLAND BUFFER

PROPOSED SILT FENCE

PROPOSED SEDIMENT TRAP #5
- DRAINAGE AREA - 4.44 AC
- TRAP WILL BE CONVERTED TO PERMANENT BASIN AFTER ALL UPSLOPE AREA IS STABILIZED. (REFER TO CONVERSION SEQUENCE ON C-8.5)
- THE OUTLET STRUCTURE SHOULD BE COVERED WITH A STEEL PLATE UNTIL TRAP IS CONVERTED TO BASIN

SEDIMENT TRAP 5
DA=4.44 AC.

D50 6" TO BE PLACED ON BASIN SIDE SLOPE, MIN. THICKNESS 14"

PROPOSED EROSION CONTROL BLANKET

RIP RAP FILTER ROCK

OVERFLOW WEIR 25'-0" - SEE SEDIMENT BASIN DETAIL

TEMP SEDIMENT BASIN #1 - SEE DETAIL

SEDIMENT BASIN 1
DA=8.72 AC.

PROPOSED EROSION CONTROL BLANKET

PROPOSED SILT FENCE

SEDIMENT TRAP FLOW PATH

ALL SLOPES REQUIRING MATTING. CONTRACTOR TO EXERCISE DUE CARE TO ENSURE RUNOFF OVER SLOPE DOES NOT CAUSE EROSION SEE BLANKET DETAIL (C-8.4)

RIPRAP APRON

COMPOST FILTER SOCK. CONTRACTOR SHALL REFER TO DESIGN CHART ON SHEET (C-8.4) FOR APPROPRIATELY SIZED FILTER

RIP-RAP SPILLWAY LINING

PROPOSED SILT FENCE

SEDIMENT TRAP 6
DA=4.98 AC.

D50 6" TO BE PLACED ON BASIN SIDE SLOPE, MIN. THICKNESS 14"

PROPOSED EROSION CONTROL BLANKET

PROPOSED SEDIMENT TRAP #6
- DRAINAGE AREA - 4.98 AC
- TRAP WILL BE CONVERTED TO PERMANENT BASIN AFTER ALL UPSLOPE AREA IS STABILIZED. (REFER TO CONVERSION SEQUENCE ON C-8.5)
- THE OUTLET STRUCTURE SHOULD BE COVERED WITH A STEEL PLATE UNTIL TRAP IS CONVERTED TO BASIN

PROPOSED EROSION CONTROL BLANKET

200' RIVERBANK WETLAND SETBACK

PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE

MATCHLINE (SEE SHEET C-8.3)

GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

N

SOILS INFORMATION

AfA, 0 TO 3 PERCENT SLOPES, AWAGWAM FINE SANDY LOAM

CnB, 3 TO 8 PERCENT SLOPES, CANTON AND CHARLTON FINE SANDY LOAMS

CeC, 3 TO 15 PERCENT SLOPES, CANTON AND CHARLTON FINE SANDY LOAMS

ChD, 15 TO 25 PERCENT SLOPES, CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS

Du, DUMPS

FeA, 0 TO 1 PERCENT SLOPES, FREETOWN MUCK

HkA, 0 TO 3 PERCENT SLOPES, HINCKLEY LOAMY SAND

HkC, 8 TO 15 PERCENT SLOPES, HINCKLEY LOAMY SAND

HkD, 15 TO 25 PERCENT SLOPES, HINCKLEY LOAMY SAND

MmB, 3 TO 8 PERCENT SLOPES, MERRIMAC FINE

MrU, 0 TO 8 PERCENT SLOPES, MERRIMAC-URBAN LAND COMPLEX

Pg, PITS, GRAVEL

Rf, 0 TO 8 PERCENT SLOPES, RIDGEBURY, LEICESTER AND WHITMAN SOILS, EXTREMELY STONEY

Sb, 0 TO 3 PERCENT SLOPES, SCARBORO MUCKY FINE SANDY LOAM

Sc, SUDBURY SANDY LOAM

StB, 3 TO 8 PERCENT SLOPES, SUTTON FINE SANDY LOAM

SwA, 0 TO 1 PERCENT SLOPES, SWANSEA MUCK

W, WATER

Wa, 0 TO 3 PERCENT SLOPES, WALPOLE SANDY LOAM

WpA, 0 TO 3 PERCENT SLOPES, WINDSOR LOAMY SAND

WpB, 3 TO 8 PERCENT SLOPES, WINDSOR LOAMY SAND

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
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- UTILITY POLE
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- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED E&S CONTROL PLAN FEATURES

- STABILIZED ROCK CONSTRUCTION ENTRANCE
- SOIL MATERIAL STOCKPILE
- SF SF STANDARD SILT FENCE (18" HIGH)
- SS SS SILT SOCKS
- RIPRAP
- EROSION CONTROL MATTING
- LoD LoD LoD LoD LIMIT OF DISTURBANCE

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 13 2019 FILE # 18-0314
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING, 6201 SE MONTICELLO TERRACE, MARTIN, FL 33455
WALLACE AND DOROTHY STONE, 55 CIDAR MILL ROAD, NORTH SMITHFIELD, RI 02896
ALFRED M CARON, PO BOX 869, SLATERSVILLE, RI 02876

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Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
EROSION & SEDIMENTATION CONTROL PLAN - EAST

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
06/05/19

SCALE:	1" = 60'
DATE:	06/05/2019
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-8.2

XRefs: ...\Shed\North Smithfield-01_wTB.dwg; ...\Shed\North Smithfield-04_wSITE.dwg; ...\Shed\North Smithfield-03_wESAT.dwg; ...\Shed\North Smithfield-07_wESI.dwg; J:\Depcom Power\North Smithfield - Klog\CAD\Shed\North Smithfield-02_wGRADE.dwg
Images: P:_TRC Imagery Mapping\Lidar\Client\Layout\ZIP_LIDAR080.png; ...\Images\TurningPoint Energy\Dpg 217R5 Rhode Island Solar Holdings\North Smithfield - Klog\SOURCE FILES\Aerial Rim map\MAP2R5SRS.png

J:\Depcom Power\North Smithfield - Klog\CAD\Plot Sheets\GRC Plots\C-8 Erosion & Sedimentation Control Plan.dwg 06-05-2019 6:55:41 PM EDT Dave

MATCHLINE (SEE SHEET C-8.2)

SEDIMENT TRAP 7
DA=2.65 AC.

SEE NOTES BELOW FOR GRADING AROUND MONITORING WELLS

PROPOSED EROSION CONTROL BLANKET

PROPOSED SILT FENCE

TEMP. CONSTRUCTION ENTRANCE SEE DETAIL

RIP RAP FILTER ROCK

COMPOST FILTER SOCK. CONTRACTOR SHALL REFER TO DESIGN CHART ON SHEET (C-8.4) FOR APPROPRIATELY SIZED FILTER

OVERFLOW WEIR -253.00 SEE SEDIMENT TRAP DETAIL

PROPOSED RECEIVING PIT

SEDIMENT TRAP FLOW PATH

SILT FENCE TO BE UTILIZED PRIOR TO TRAP CONSTRUCTION

PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 122 PG 244 SPECIAL EXCEPTION NO. 14 CARON TITLE

EXISTING WETLAND CROSSING

PROPOSED BORING PIT

EXISTING RIVER/STREAM CENTERLINE

TROUT BROOK CENTERLINE

100' RIVERBANK WETLAND SETBACK

100' SOLAR ARRAY SETBACK

50' WETLAND SETBACK

10' PROJECT SETBACK

200' RIVERBANK WETLAND SETBACK

EXISTING RESIDENCE #1363

EXISTING RESIDENCE #1375

200' RIVERBANK WETLAND SETBACK

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

10'x20' Shed

10'x12' Shed

POUND TREE RD PUBLIC RIGHT-OF-WAY 50'

N 77°08'16" W 682.67'

S 77°23'02" E 363.00'

S 39°49'35" W 177.58'

N 53°39'22" W 1766.80'

N 20°47'38" E 123.42'

S 28°17'25" W 159.92'

S 31°02'14" W 282.58'

N 53°39'17" E 396.97'

S 12°30'57" W 155.00'

N 12°30'57" E 477.86'

S 53°39'17" W 193.50'

N 53°39'17" E 528.46'

S 36°00'00" W 787.68'

N 36°00'00" E 787.68'

N 36°00'00" E 489.19'

SOILS INFORMATION

AfA, 0 TO 3 PERCENT SLOPES AWAGAWAM FINE SANDY LOAM	Du, DUMPS	HkD, 15 TO 25 PERCENT SLOPES HINCKLEY LOAMY SAND	Rf, 0 TO 8 PERCENT SLOPES RIDGEBURY, LEICESTER AND WHITMAN SOILS, EXTREMELY STONEY	SwA, 0 TO 1 PERCENT SLOPES SWANSEA MUCK	WpB, 3 TO 8 PERCENT SLOPES WINDSOR LOAMY SAND
CdB, 3 TO 8 PERCENT SLOPES CANTON AND CHARLTON FINE SANDY LOAMS	FeA, 0 TO 1 PERCENT SLOPES FREETOWN MUCK	MmB, 3 TO 8 PERCENT SLOPES MERRICMAC FINE	Sb, 0 TO 3 PERCENT SLOPES SCARBORO MUCKY FINE SANDY LOAM	W, WATER	
CeC, 3 TO 15 PERCENT SLOPES CANTON AND CHARLTON FINE SANDY LOAMS	HkA, 0 TO 3 PERCENT SLOPES HINCKLEY LOAMY SAND	MtU, 0 TO 8 PERCENT SLOPES MERRIMAC-URBAN LAND COMPLEX	Sc, SUDBURY SANDY LOAM	Wb, 0 TO 3 PERCENT SLOPES WALPOLE SANDY LOAM	
ChD, 15 TO 25 PERCENT SLOPES CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS	HkC, 8 TO 15 PERCENT SLOPES HINCKLEY LOAMY SAND	Pg, PITS, GRAVEL	StB, 3 TO 8 PERCENT SLOPES SUTTON FINE SANDY LOAM	WpA, 0 TO 3 PERCENT SLOPES WINDSOR LOAMY SAND	

GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

LEGEND — EXISTING FEATURES

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- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
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- UTILITY POLE
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LEGEND — PROPOSED E&S CONTROL PLAN FEATURES

- STABILIZED ROCK CONSTRUCTION ENTRANCE
- SOIL MATERIAL STOCKPILE
- SF SF STANDARD SILT FENCE (18" HIGH)
- SS SS SILT SOCKS
- RIPRAP
- EROSION CONTROL MATTING
- LoD LoD LoD LoD LIMIT OF DISTURBANCE

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
PERMISSION WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 13 2019 FILE # 18-0314
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NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
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6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
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Applicant
DEPCOM POWER
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

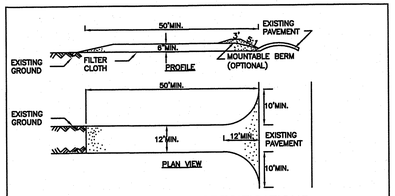
Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
EROSION & SEDIMENTATION CONTROL PLAN - SOUTH

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 60'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-8.3

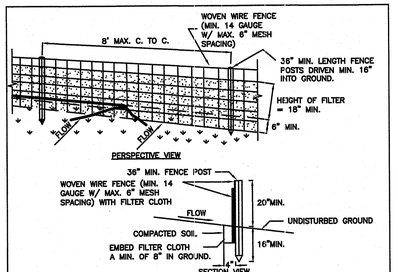
XRefs: ...\XrefsNorth Smithfield-01_xrTitle.dwg ...\XrefsNorth Smithfield-04_xrSITE.dwg ...\XrefsNorth Smithfield-03_xrESF.dwg ...\XrefsNorth Smithfield-07_xrES.dwg J:\Depcom Power\North Smithfield - King\CAD\XrefsNorth Smithfield-09_xrGRADE.dwg
Images: FS_TRC Imagery Mapping\Logos\Client Logos\CP_LOGO02.png ..\Images\TurningPoint Energy3.jpg 2.07% Rhode Island Solar Hosting\North Smithfield - King\SOURCE FILES\Base Rim map\4408720N50.png



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE – USE 1–4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY–FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

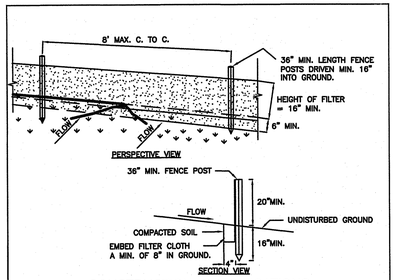
STABILIZED CONSTRUCTION ACCESS



CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER–LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL MEET THE MINIMUM REQUIREMENTS SHOWN.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

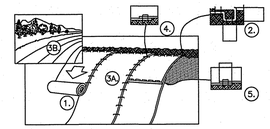
REINFORCED SILT FENCE



CONSTRUCTION SPECIFICATIONS

1. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER–LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
3. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE

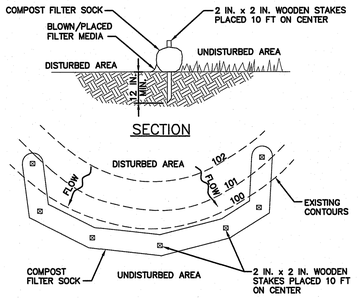


1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL–O–SEED DO NOT SEED PREPARED AREA. CELL–O–SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP–SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"–5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.

NOTE:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
FOR SLOPES GREAT THAN TEN PERCENT (20%).

EROSION CONTROL BLANKET DETAIL
SCALE: NONE

NORTH AMERICAN GREEN C125 OR EQUAL
CONTRACTOR SHALL ENSURE ANY SUBSTITUTE PRODUCT MEETS SITE SPECIFIC REQUIREMENTS.



PLAN VIEW

NOTES:

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

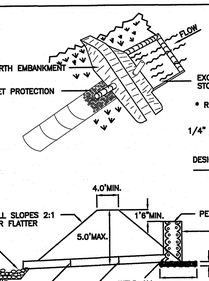
UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

COMPOST FILTER SOCKS
RECOMMENDED DESIGN PRACTICE FOR COMPOST FILTER DEVICES IS THAT DRAINAGE AREAS DO NOT EXCEED 0.25 ACRE PER 100 FEET OF DEVICE LENGTH AND FLOW DOES NOT EXCEED ONE CUBIC FOOT PER SECOND (EPA, 2006). COMPOST FILTER SOCKS MAY BE USED, SUBJECT TO THE SLOPE CONDITIONS LISTED IN FIGURE 2. FIGURE 2: RECOMMENDED SPACING AND DIAMETER REQUIREMENTS FOR COMPOST FILTER SOCKS CONTRACTOR SHALL USE APPROPRIATE DIAMETER COMPOST FILTER SOCK BASED ON THE FOLLOWING CHART:

COMPOST FILTER SOCK SLOPE LENGTH REQUIREMENTS

SLOPE %	12"	18"	24"	32"
	MAXIMUM SLOPE LENGTH ABOVE COMPOST FILTER SOCK			
2 (OR LESS)	750	1000	1300	1650
5	500	550	650	750
10	250	300	400	500
15	170	200	325	450
20	125	140	260	400
25	100	110	200	275
30	75	90	130	200
35	75	80	115	150
40	50	80	100	125

COMPOST FILTER SOCK DETAIL
SCALE: NONE

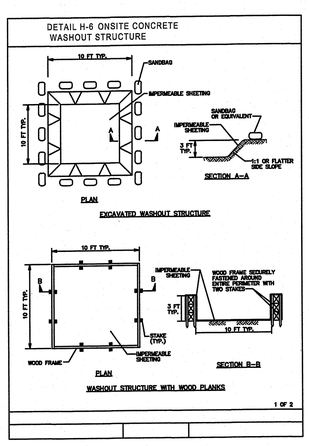


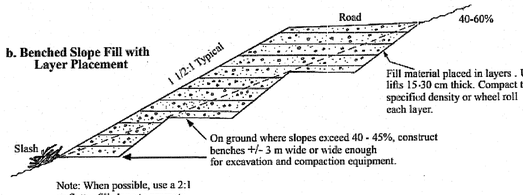
PIPE OUTLET BASIN TRAP ST–I

CONSTRUCTION SPECIFICATIONS

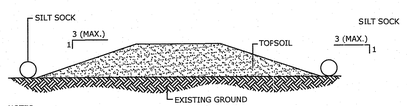
1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER–SIZED STONES, ROCKS, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
3. VOLUME OF SEDIMENT STORAGE SHALL BE 3600 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE.
4. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND STABILIZED.
5. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
6. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED.
7. THE STRUCTURE SHALL BE REMOVED AND AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
8. ALL FILL SLOPES SHALL BE 2:1 OR FLATTER; CUT SLOPES 1:1 OR FLATTER.
9. ALL PIPE CONNECTIONS SHALL BE WATERTIGHT.
10. THE TOP 2/3 OF THE RISER SHALL BE PERFORATED WITH ONE (1) INCH DIAMETER HOLES OR SLITS SPACED SIX (6) INCHES VERTICALLY AND HORIZONTALLY AND PLACED IN THE CONCAVE PORTION OF PIPE. NO HOLES WILL BE ALLOWED WITHIN SIX (6) INCHES OF THE HORIZONTAL BARREL.
11. THE RISER SHALL BE WRAPPED WITH 1/4 TO 1/2 INCH HARDWARE CLOTH WIRE THEN WRAPPED WITH FILTER CLOTH (HAVING AN EQUIVALENT SIEVE SIZE OF 40–80). THE FILTER CLOTH SHALL EXTEND SIX (6) INCHES ABOVE THE HIGHEST HOLE AND SIX (6) INCHES BELOW THE LOWEST HOLE. WHERE ENDS OF THE FILTER CLOTH COME TOGETHER, THEY SHALL BE OVER–LAPPED, FOLDED AND STAPLED TO PREVENT BYPASS.
12. STRAPS OR CONNECTING BANDS SHALL BE USED TO HOLD THE FILTER CLOTH AND WIRE FABRIC IN PLACE. THEY SHALL BE PLACED AT THE TOP AND BOTTOM OF THE CLOTH.
13. FILL MATERIAL AROUND THE PIPE SPILLWAY SHALL BE HAND COMPACTED IN FOUR (4) INCH LAYERS. A MINIMUM OF TWO (2) FEET OF HAND COMPACTED BACKFILL SHALL BE PLACED OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT.
14. THE RISER SHALL BE ANCHORED WITH EITHER A CONCRETE BASE OR STEEL PLATE BASE TO PREVENT FLOTATION. FOR CONCRETE BASE THE DEPTH SHALL BE TWELVE (12) INCHES WITH THE RISER EMBEDDED NINE (9) INCHES. A 1/4 INCH MINIMUM THICKNESS STEEL PLATE SHALL BE ATTACHED TO THE RISER BY A CONTINUOUS WELD AROUND THE BOTTOM TO FORM A WATERTIGHT CONNECTION AND THEN PLACE TWO (2) FEET OF STONE, GRAVEL, OR TAMPED EARTH ON THE PLATE.

PIPE OUTLET SEDIMENT BASIN ST–I





BENCHED SLOPE FILL LAYER PLACEMENT
SCALE: NONE



NOTES

1. STOCKPILE SHALL BE SURROUNDED BY COMPOST FILTER SOCK OR SILT FENCE PER MANUFACTURER'S SPECIFICATIONS.
2. STOCKPILE SHALL RECEIVE TEMPORARY VEGETATIVE STABILIZATION IN ACCORDANCE WITH THE RI DEM STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IMMEDIATELY AFTER COMPLETION OF STOCKPILE.

TOP SOIL STOCKPILE DETAIL
SCALE: NONE

EROSION CONTROL STABILIZATION NOTES

1. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
2. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES, OR 6 TO 12 INCHES ON COMPACTED SOILS, PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
3. UPON TEMPORARY CESSATION OF AN EARTH DISTURBANCE OR ANY STAGE OR PHASE OF AN ACTIVITY WHERE A CESSATION OF EARTH DISTURBANCE ACTIVITIES EXCEEDS 4 DAYS, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION PENDING FUTURE EARTH DISTURBANCE ACTIVITIES.
4. STRAW MULCH MUST BE APPLIED AT RATES OF AT LEAST 3.0 TONS PER ACRE. STRAW MULCH SHOULD BE ANCHORED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN.
5. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED.
6. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER, WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS ACCORDING TO THE STANDARDS OF THIS PLAN.
7. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
8. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
9. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY RIDEM.

STANDARD E&S PLAN NOTES

1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT (E&S) PLAN. A COPY OF THE APPROVED DRAWINGS.
2. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL.
3. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BEST MANAGEMENT PRACTICES (BMPS) SPECIFIED BY THE CONSTRUCTION SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
4. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMITOF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
5. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BMPS TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION
6. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS. DISCHARGE POINTS SHOULD BE ESTABLISHED TO PROVIDE FOR MAXIMUM DISTANCE TO ACTIVE WATERWAYS.
7. UNTIL THE SITE IS STABILIZED, ALL E&S BMPS MUST BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL E&S BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
8. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
9. ALL EXCAVATION FOR UTILITY LINE INSTALLATION SHALL BE LIMITED TO THE AMOUNT THAT CAN BE EXCAVATED, INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY. ALL EXCAVATED MATERIAL SHALL BE DEPOSITED ON THE UPSLOPE SIDE OF THE TRENCH.
10. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS
11. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.

FILL NOTES:

CLEAN FILL DUE TO ANALYTICAL TESTING. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
1. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 30 CM OR 12 INCHES IN THICKNESS.
2. COMPACT FILL SLOPES USE SPECIFIC COMPACTION PROCEDURES SUCH AS WHEEL ROLLING, LAYER PLACEMENT AND USE OF SPECIFIC COMPACTION MATERIAL.
3. SLOPES SHALL BE TEMPORARILY STABILIZED WITH TEMPORARY SLOPE MATTING AND COMPOST FILTER SOCK UNTIL VEGETATION IS PERMANENTLY ESTABLISHED. (SEE DETAILS AND DESIGN GUIDANCE THIS SHEET)
4. FILL ACTIVITY SHALL BE A:COMPLETED DURING SPRING SUMMER AS TO QUICKLY ESTABLISH VEGETATION OR B: EROSION CONTROL BLANKET SHALL BE UTILIZED TO CONTROL EROSION UNTIL VEGETATION CAN BE ESTABLISHED.
5. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
6. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
7. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.

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 SEP 13 2019 FILE # 18-0519
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:
WILLIAM HORTON KING, 6201 SE MONTICELLO TERRACE, MARTIN, FL 33455
ALFRED M CARON, PO BOX 869, SLATERSVILLE, RI 02876
WALLACE AND DOROTHY STONE, 55 CIDAR MILL ROAD, NORTH SMITHFIELD, RI 02896

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Applicant
DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

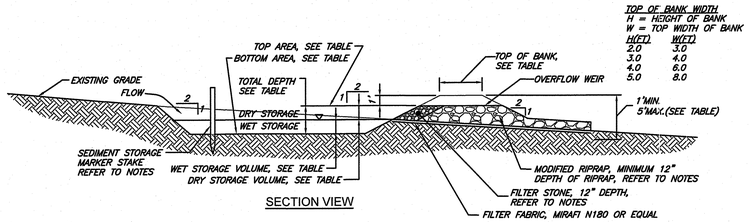
DRAWING TITLE:
EROSION & SEDIMENTATION CONTROL DETAILS

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
06/05/19

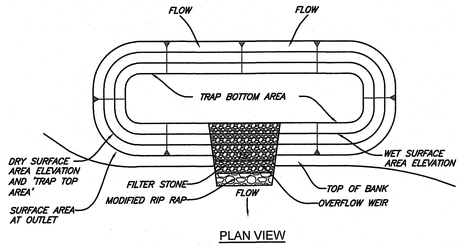
SCALE:	AS SHOWN
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C–8.4

I:\Depcom Power\Work Sheets\Active - Dwg\338781\Civil Sheets\[PDV Plan]C-8.4 Erosion & Sedimentation Control Details.dwg 06-May-2019 at 8:30:07 PM By: Steve

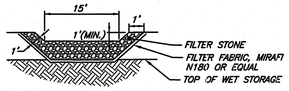
Xrefs: L:\Depcom Power\Work Sheets\Active - Dwg\338781\Civil Sheets\[PDV Plan]C-8.4 Erosion & Sedimentation Control Details.dwg 06-May-2019 at 8:30:07 PM By: Steve
Images: F:_TRC Imagery-Mapping\Logos\Client Logos\DP_LOGO02.png ..\Images\TurningPoint Energy3.jpg



SECTION VIEW



PLAN VIEW



OVERFLOW WEIR SECTION

TEMPORARY SEDIMENT TRAP DETAIL

NOT TO SCALE

SEDIMENT TRAP DATA	TRAP 1	TRAP 2	TRAP 3	TRAP 4	TRAP 5	TRAP 6	TRAP 7
COTRIBUTORY AREA AC.	3.65	4.54	4.20	2.66	4.44	4.98	2.65
WET STORAGE DEPTH, FT	1.0	1.0	1.0	1.0	1.0	1.0	1.0
DRY STORAGE DEPTH, FT	1.0	1.0	1.0	1.0	1.0	1.0	1.0
TOTAL DEPTH (WET/DRY), FT	2.0	2.0	2.0	2.0	2.0	2.0	2.0
TRAP BOTTOM AREA, SQ.FT.	6,752	8,103	8,640	4,470	9,667	9,466	4,470
TRAP TOP AREA, SQ.FT.	9,709	11,189	11,811	6,245	12,604	15,224	6,861
TRAP BOTTOM	310	307	310	300	250	249	251
BERM ELEVATION	313	310	313	303	253	252	254

SEDIMENT TRAP CALCULATION

Trap	Drainage Area	Required Storage Volume	Required Wet Storage	Provided Wet Storage	Bottom Surface Elevation of Trap	Surface Area provided at Bottom of Trap	Elevation at which Wet Storage is Provided	Surface Area provided at Wier Elevation	Required Dry Storage	Provided Dry Storage	Elevation at which Wet Storage is Provided
	AC.	CF	CF	CF	FT	SF	FT	SF	CF	CF	FT
1	3.65	13,206	6,603	7,471	310	6,752	311	9,709	6,603	8,949	312
2	4.54	16,426	8,213	8,858	307	8,103	308	11,189	8,213	10,401	309
3	4.2	15,196	7,598	9,425	310	8,640	311	11,811	7,598	11,010	312
4	2.66	9,624	4,812	5,050	300	4,470	301	6,245	4,812	6,245	302
5	4.44	16,064	8,032	10,388	250	9,667	251	12,604	8,032	11,857	252
6	4.98	18,018	9,009	11,210	249	9,466	250	15,224	9,009	14,089	251
7	2.65	9,588	4,794	5,050	251	4,470	252	6,861	4,794	6,246	253

GENERAL NOTES:

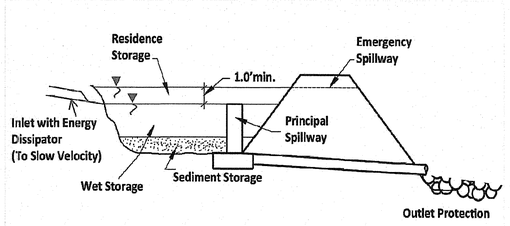
1. THE TEMPORARY SEDIMENT TRAP SHALL MEET ALL REQUIREMENTS FOR TEMPORARY SEDIMENT TRAPS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST REVISION) SECTION SIX: SEDIMENT CONTROL MEASURES.
2. THE TEMPORARY SEDIMENT TRAP SHALL HAVE AN INITIAL STORAGE VOLUME OF 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA.
3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
4. THE OUTLET SHALL BE LOCATED AT THE MOST DISTANT HYDRAULIC POINT FROM THE INLET.
5. THE OUTLET CONSISTS OF A PERVIOUS STONE OUTLET WITH A CORE OF MODIFIED RIP RAP AND FACED ON THE UPSTREAM SIDE WITH STONE FILTER.
6. TEMPORARY SEDIMENT TRAPS MUST OUTLET ONTO STABILIZED GROUND.
7. MAXIMUM HEIGHT OF A TEMPORARY SEDIMENT TRAP EMBANKMENT IS LIMITED TO FIVE FEET.
8. SIDE SLOPES OF THE EMBANKMENT SHALL BE 2:1 OR FLATTER.
9. MODIFIED RIP RAP SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.10.03.2 AND BE R-4 GRADE RIPRAP.
10. FILTER STONE SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

INSPECTION, MAINTENANCE AND REMOVAL REQUIREMENTS:

1. INSTALL SEDIMENT STORAGE STAKE WITH A MARKER AT ONE HALF OF THE WET STORAGE VOLUME.
2. INSPECT THE TEMPORARY SEDIMENT TRAP AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCHES OR GREATER.
3. CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT.
4. CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE.
5. WHEN SEDIMENTS HAVE ACCUMULATED TO ONE HALF THE MINIMUM REQUIRED VOLUME OF THE WET STORAGE, DEWATER THE TRAP AS NEEDED, REMOVE SEDIMENTS AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS.
6. DISPOSE OF THE SEDIMENT REMOVED FROM THE BASIN IN A SUITABLE AREA.
7. THE TEMPORARY SEDIMENT TRAP MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.

INSTALLATION NOTES:

1. CLEAR GRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA.
2. REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN 3 INCHES AND OTHER DEBRIS.
3. EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS.
4. USE ONLY FILL MATERIAL FOR THE EMBANKMENT THAT IS FREE FROM EXCESSIVE ORGANICS, DEBRIS, LARGE ROCKS (OVER SIX INCHES) OR OTHER UNSUITABLE MATERIALS. COMPACT THE EMBANKMENT IN 9 INCH LAYERS BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
5. STABILIZE THE EARTHEN EMBANKMENT USING ANY OF THE FOLLOWING MEASURES, SEEDING FOR TEMPORARY VEGETATION COVER, SEEDING FOR PERMANENT VEGETATIVE COVER, OR SLOPE PROTECTION, IMMEDIATELY AFTER INSTALLATION.



TEMPORARY SEDIMENT BASIN DETAIL

NOT TO SCALE

Sediment Basin #	Drainage Area	Avg. Annual Erosion	Delivery Ratio	Sediment Trap Efficiency	Estimated Sediment Density	Required Sediment Storage Volume	Required Wet Storage Volume	Provided Sediment Storage	Provided Wet Storage Volume
	(DA) in Ac	A in (Ton/Ac/yr)	DR	TE	y in (lbs/cu.ft)	V in (ac.ft./yr)	2*V	V in (ac.ft./yr)	V in (ac.ft./yr)
1	9.97	1.0	45	0.8	75	0.22	0.44	0.29	0.51

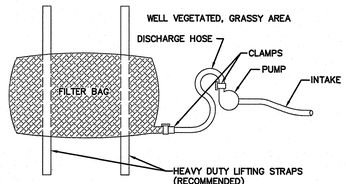
SEDIENT BASIN#	BOTTOM EL.	EMBANKMENT EL.	SEDIMENT STORATGE EL.	WET STORAGE EL.	PRINCIPAL SPILLWAY EL	PRINCIPAL SPILLWAY SIZE	OUTLET PIPE INV. IN.	OUTLET PIPE INV. OUT.	EM. SPILLWAY EL.
1	252.0	256.0	253.0	254.5	254.5	12" CMP PIPE	252.0	251.0	255.0

INSPECTION, MAINTENANCE AND REMOVAL REQUIREMENTS:

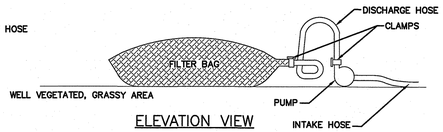
1. INSTALL SEDIMENT STORAGE STAKE WITH A MARKER AT ONE HALF OF THE WET STORAGE VOLUME.
2. INSPECT THE TEMPORARY SEDIMENT TRAP AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCHES OR GREATER.
3. CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT.
4. CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE.
5. WHEN SEDIMENTS HAVE ACCUMULATED TO ONE HALF THE MINIMUM REQUIRED VOLUME OF THE WET STORAGE, DEWATER THE TRAP AS NEEDED, REMOVE SEDIMENTS AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS.
6. DISPOSE OF THE SEDIMENT REMOVED FROM THE BASIN IN A SUITABLE AREA.
7. THE TEMPORARY SEDIMENT BASIN MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.

INSTALLATION NOTES:

1. CLEAR GRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA.
2. REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN 3 INCHES AND OTHER DEBRIS.
3. EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS.
4. USE ONLY FILL MATERIAL FOR THE EMBANKMENT THAT IS FREE FROM EXCESSIVE ORGANICS, DEBRIS, LARGE ROCKS (OVER SIX INCHES) OR OTHER UNSUITABLE MATERIALS. COMPACT THE EMBANKMENT IN 9 INCH LAYERS BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
5. STABILIZE THE EARTHEN EMBANKMENT USING ANY OF THE FOLLOWING MEASURES, SEEDING FOR TEMPORARY VEGETATION COVER, SEEDING FOR PERMANENT VEGETATIVE COVER, OR SLOPE PROTECTION, IMMEDIATELY AFTER INSTALLATION.



PLAN VIEW



ELEVATION VIEW

CONSTRUCTION SEQUENCE FOR SEDIMENT TRAPS AND BASINS:

DEWATERING
ONCE THE CONTRIBUTING DRAINAGE AREA IS FULLY STABILIZED, THE SEDIMENT BASINS AND TRAPS SHOULD BE CAREFULLY DEWATERED TO THE SEDIMENT LAYER. DEWATERING SHOULD BE COMPLETED SLOWLY TO PREVENT RESUSPENSION OF CAPTURED SEDIMENT.

DEMUCKING AND CLEANING OF SEDIMENT BMPS
EXCESS MATERIAL MUST BE REMOVED AND DISPOSED OF WITHOUT RELEASING SEDIMENT OR SLURRY INTO ANY EXISTING OUTLET STRUCTURES, RECEIVING STREAM OR LOCAL DRAINAGE SYSTEM. ONCE THE TRAP/BASIN BOTTOM MATERIAL HAS BEEN SUFFICIENTLY DEWATERED AND DRIED, IT MAY BE SCOOPED OUT WITH A TRACK HOE OR LOADER. THE CONTRACTOR SHOULD EXCAVATE BASIN TO THE PERMANENT DESIGN ELEVATIONS SET FORTH ON THE GRADING PLANS. EXCESS MATERIAL SHOULD BE DISPOSED OF AS PROJECT FILL OR TOP SOILED ACCORDING TO THE APPROVED PLANS. HEAVY EQUIPMENT SHOULD NOT BE USED ON THE BASIN BOTTOM. CARE SHOULD BE TAKEN TO ENSURE THE PROPER ELEVATION AND STABILITY OF ALL PERMANENT OUTLET STRUCTURES.

FINAL STABILIZATION
ALL STRUCTURES AND DESIGN ELEVATIONS SHALL BE VERIFIED AFTER SEDIMENT REMOVAL. THE STORMWATER DETENTION BASIN BOTTOM, SIDES, UPSTREAM AND DOWNSTREAM SLOPES AND BASIN BERM SHOULD BE STABILIZED WITH PERMANENT VEGETATION TO PREVENT EROSION AND SEDIMENT DISPERSAL. BEST MANAGEMENT PRACTICES SUCH AS SEEDING, MULCHING, SODDING AND CONTROL BLANKETS SHALL BE UTILIZED TO ESTABLISH A VEGETATIVE COVER. PERIMETER CONTROLS SHALL REMAIN IN PLACE DURING ALL SEDIMENT TRAP AND BASIN CONVERSIONS, UNTIL PERMANENT STABILIZATION OF THE AREAS HAS BEEN ESTABLISHED.

NOTES:

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

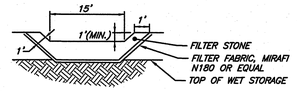
THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

TO BE CONSTRUCTED WITH MATERIALS AND TECHNIQUES IN ACCORDANCE WITH THE EROSION AND SEDIMENT POLLUTION CONTROL MANUAL EFFECTIVE DATE MARCH 31, 2012 AS AMENDED.

DEWATERING DEVICE

NOT TO SCALE



OVERFLOW WEIR SECTION

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 SEP 13 2019 FILE # 180324
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

TRC
TRC Engineers, Inc.
650 Suffolk Street
Suite 200
Lowell, MA 01854
Tel: (978) 970-5600
www.TRCcompanies.com

© TRC Engineers, Inc.

Applicant

DEPCOM POWER.
9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

EROSION & SEDIMENTATION CONTROL DETAILS

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
06/05/19

SCALE:	AS SHOWN
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000

DRAWING NO.:

C-8.5

C:\Pwcwm Power\North Smithfield - Reg\CONFIG Sheets\RPT Plots\C-14 Details & Sedimentation Control Details.dwg 05-31-2019 4:05:47 PM RY: Stam

XRefs: ...\Data\North Smithfield\01_xr18.dwg
Images: F:_TRC Imagery-Mapping\Logos\Client Logos\DP_LOGO90.png , Images\TurningPoint Energy3.jpg

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- INDEX CONTOUR LINE
- INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN - FEMA FLOOD HAZARD AREA
- APPROXIMATE 100-YEAR FLOOD ELEVATION

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD
- VEGETATIVE BUFFER TO REMAIN UNDISTURBED

NOTE:
PROPOSED TREE LINE SHOWN FOR CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINE.

NO.	REVISION	DATE
1	ISSUED FOR CONSTRUCTION	06/05/2019

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
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SLATERSVILLE, RI 02876

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Applicant

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9185 E PIMA CENTER PARKWAY, SUITE 100
SCOTTSDALE, AZ 85258
ph.: 480.270.6910
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

LAYDOWN AREA PLAN

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 40'
DATE:	06/05/2019
DRAWN BY:	ROE
CHECKED BY:	SML
PROJECT:	338781.0000
DRAWING NO.:	C-9.0

XRefs:
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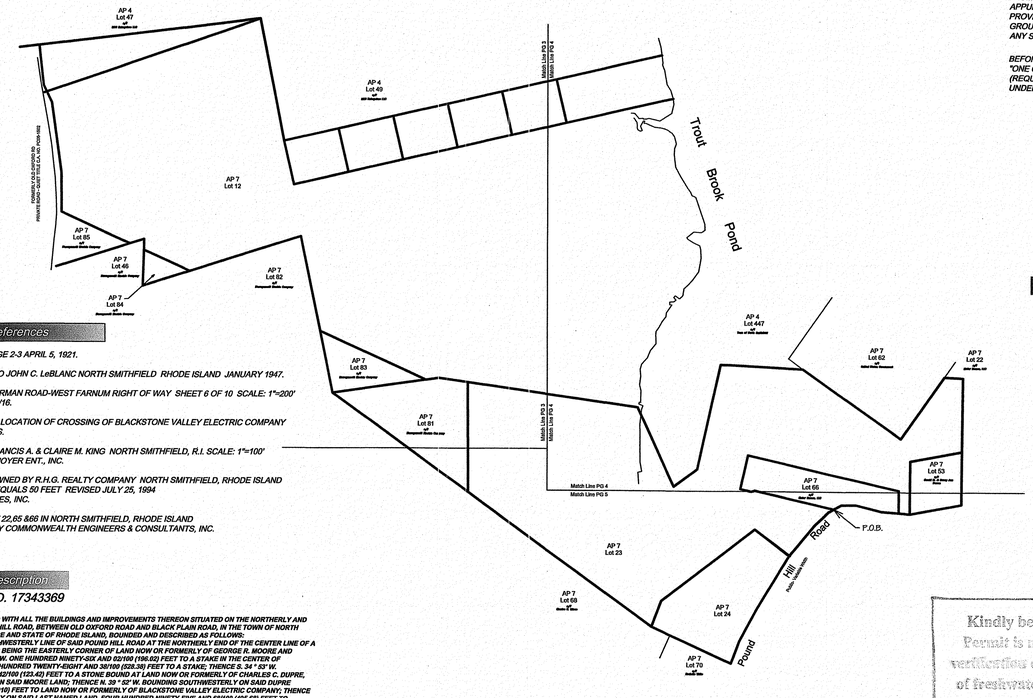
PROPERTY AND SHEET LAYOUT

NOT TO SCALE



References

1) LAND EVIDENCE BOOK 24 PAGE 2-3 APRIL 5, 1921.

2) PLAN OF LAND BELONGING TO JOHN C. LeBLANC NORTH SMITHFIELD RHODE ISLAND JANUARY 1947.

3) NATIONAL GRID MAP OF SHERMAN ROAD-WEST FARNUM RIGHT OF WAY SHEET 6 OF 10 SCALE: 1"=200' DATE: 06/28/1968 REVISED 08/10/16.

4) PLANS SHOWING PROPOSED LOCATION OF CROSSING OF BLACKSTONE VALLEY ELECTRIC COMPANY RIGHT OF WAY--VARIOUS DATES.

5) PLAN OF LAND OWNED BY FRANCIS A. & CLAIRE M. KING NORTH SMITHFIELD, R.I. SCALE: 1"=100' DATE: JUNE 1994 BY RC COURNOYER ENT., INC.

6) EASEMENT PLAN OF LAND OWNED BY R.H.G. REALTY COMPANY NORTH SMITHFIELD, RHODE ISLAND JANUARY 1992 SCALE: 1 INCH EQUALS 50 FEET REVISED JULY 25, 1994 BY MARC N. NYBERG ASSOCIATES, INC.

7) PLAN OF LAND FOR AP7. LOT 22,65 &66 IN NORTH SMITHFIELD, RHODE ISLAND SCALE: 1"=50' DATE: 06/03/86 BY COMMONWEALTH ENGINEERS & CONSULTANTS, INC.

Schedule A - Description

COMMITMENT NO. 17343369

PARCEL I
A CERTAIN LOT OR PARCEL OF LAND WITH ALL THE BUILDINGS AND IMPROVEMENTS THEREON SITUATED ON THE NORTHERLY AND NORTHWESTERLY SIDES OF POUND HILL ROAD, BETWEEN OLD OXFORD ROAD AND BLACK PLAIN ROAD, IN THE TOWN OF NORTH SMITHFIELD, COUNTY OF PROVIDENCE AND STATE OF RHODE ISLAND, BOUNDED AND DESCRIBED AS FOLLOWS:
BEGINNING AT A POINT IN THE NORTHWESTERLY LINE OF SAID POUND HILL ROAD AT THE NORTHERLY END OF THE CENTER LINE OF A CULVERT, SAID POINT OF BEGINNING BEING THE EASTERLY CORNER OF LAND NOW OR FORMERLY OF GEORGE R. MOORE AND MINNIE C. MOORE; THENCE N. 39° 21' W. ONE HUNDRED NINETY-SIX AND 02/100 (196.02) FEET TO A STAKE IN THE CENTER OF A BROOK; THENCE S. 86° 27' W. FIVE HUNDRED TWENTY-EIGHT AND 39/100 (528.39) FEET TO A STAKE; THENCE S. 34 ° 55' W. ONE HUNDRED TWENTY-THREE AND 42/100 (123.42) FEET TO A STONE BOUND AT LAND NOW OR FORMERLY OF CHARLES C. DUPRE, THE LAST THREE LINES BOUNDING ON SAID MOORE LAND; THENCE N. 39 ° 53' W. BOUNDING SOUTHWESTERLY ON SAID DUPRE LAND, ABOUT TEN HUNDRED TEN (1,010) FEET TO LAND NOW OR FORMERLY OF BLACKSTONE VALLEY ELECTRIC COMPANY; THENCE N. 00° 13' 43" W. BOUNDING WESTERLY ON SAID LAST NAMED LAND, FOUR HUNDRED NINETY-FIVE AND 68/100 (495.68) FEET TO LAND NOW OR FORMERLY OF THE KENDALL COMPANY; THENCE S. 81 ° 47' 27" E. SEVEN HUNDRED SIXTY-EIGHT AND 03/100 768.03 FEET TO A STONE BOUND; THENCE SOUTHERLY THREE HUNDRED EIGHTY-SIX AND 51/100 (386.51) FEET TO A STONE BOUND; THENCE NORTHEASTERLY ONE HUNDRED THIRTY-ONE AND 42/100 (131.42) FEET TO A STONE BOUND; THENCE NORTHERLY (NOTE: VESTING DEED CONTAINS AN INCOMPLETE METES AND BOUNDS LEGAL DESCRIPTION)

PARCEL II
A CERTAIN TRACT OR PARCEL OF LAND WITH THE BUILDINGS AND IMPROVEMENTS THEREON, SITUATED IN THE TOWN OF NORTH SMITHFIELD ON THE NORTH SIDE OF THE WOONSOCKET AND CHEPACHET ROAD, SO CALLED, AND KNOWN AS THE HOMESTEAD ESTATE OF THE LATE CARLISTA HART, AND IS DESCRIBED IN A CERTAIN DEED FROM EZRA WHITFORD TO SAID CARLISTA HART ON RECORD IN TRANSCRIPT TOR OLD SMITHFIELD TO NORTH SMITHFIELD, BOOK NO. 1 PAGE 17.
ALSO A CERTAIN TRACT OR PARCEL OF LAND, BOUNDED AND DESCRIBED AS FOLLOWS: VIZ: COMMENCING AT THE WESTERLY BOUND OF LAND OF THE LATE OLNEY A. HOWRY AND LAND OF SAID CARLISTA HART; THENCE SOUTHERLY ONE (1) ROD, MORE OR LESS, TO A BOUND OF SAID CARLISTA HART'S LAND, THENCE, WESTERLY WITH SAID HART LAND (7) RODS MORE OR LESS TO A BOUND OF SAID OLNEY A. HOWRY AND SAID CARLISTA HART; THENCE NORTHERLY ONE (1) ROD, MORE OR LESS WITH SAID OLNEY A. HOWRY 'S LAND TO A STONE BOUND, THENCE EASTERLY SEVEN (7) RODS MORE OR LESS, PARALLEL WITH THE SECOND COURSE TO THE PLACE OF BEGINNING.

ALSO A CERTAIN TRACT OR PARCEL OF LAND BOUNDED AND DESCRIBED AS FOLLOWS: BEGINNING AT THE SAID HIGHWAY AT THE MIDDLE OF THE TROUT BROOK SO CALLED, THENCE IN A NORTHWESTERLY DIRECTION 11 RODS AND 6 FEET TO A STONE SET IN MIDDLE OF SAID TROUT BROOK, THENCE, IN A STRAIGHT LINE TO THE NORTH WEST CORNER OF LAND OF SAID TRUMAN SMITH DECEASED, THENCE WITH SAID SMITH'S LAND TO THE SAID HIGHWAY, THENCE WITH SAID HIGHWAY TO THE PLACE OF BEGINNING.

Schedule B - Section II

COMMITMENT NO. 17343369

PARCEL I
2. FLOWAGE RIGHTS PURSUANT TO DOCUMENT RECORDED RECORDED IN BOOK 12, PAGE 193. (PLOTTED AND SHOWN)

3. EASEMENT(S) AND/OR RIGHTS OF WAY RECORDED IN BOOK 58, PAGE 170. (PLOTTED AND SHOWN)

4. EASEMENT(S) AND/OR RIGHTS OF WAY TO TENNESSEE GAS PIPELINE COMPANY RECORDED IN BOOK 122, PAGE 244. (PLOTTED AND SHOWN)

5. FARM FOREST, AND OPEN SPACE LAND CLASSIFICATION RECORDED IN BOOK 223, PAGE 1065. (BLANKET IN NATURE)

PARCEL II
6. INTENTIONALLY DELETED.

7. DRAINAGE EASEMENT TO RICHARD GALLANT RECORDED IN BOOK 160, PAGE 629. (PLOTTED AND SHOWN)

Property Information

Utility Notes

THE LOCATION OF UTILITIES SHOWN HEREON ARE FROM OBSERVED EVIDENCE OF ABOVE GROUND APPURTENANCES ONLY. THE SURVEYOR WAS NOT PROVIDED WITH UNDERGROUND PLANS OR SURFACE GROUND MARKINGS TO DETERMINE THE LOCATION OF ANY SUBTERRANEAN USES.

BEFORE DIGGING IN THIS AREA, CALL "ONE CALL" 811 FOR FIELD LOCATIONS (REQUEST FOR GROUND MARKINGS) OF UNDERGROUND UTILITY LINES

811 Know what's below. Call before you dig.

Street Index

Pound Hill Road
Formerly Old Oxford Road

LINE TABLE

LINE	BEARING	DISTANCE
L1	S 79°58'54" W	255.00'
L2	N 84°57'01" W	48.79'
L3	N 85°57'09" W	74.90'
L4	N 77°23'50" W	118.46'
L5	S 89°56'59" W	66.34'
L6	S 61°11'58" W	38.00'
L7	S 61°11'58" W	27.78'
L8	S 46°15'55" W	84.61'
L9	S 35°49'26" W	177.58'
L10	S 31°02'54" W	282.58'
L11	S 28°17'23" W	159.95'
L12	S 21°01'57" W	107.53'
L13	N 33°35'01" E	131.42'
L14	S 79°58'54" W	255.00'
L15	S 00°26'26" W	235.00'
L16	S 77°23'02" E	365.00'
L17	N 74°28'25" E	11.01'
L18	S 77°08'31" E	49.99'

State Certification

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015 AS FOLLOWS:

TYPE OF BOUNDARY SURVEY:	*MEASUREMENT SPECIFICATION*
COMPREHENSIVE BOUNDARY SURVEY	*I*
OTHER TYPE OF SURVEY:	
DATA ACCUMULATION SURVEY	*III*
TOPOGRAPHIC SURVEY ACCURACY	*T-3*

THE PURPOSE FOR THE CONDUCT OF THIS SURVEY AND FOR THE PREPARATION OF THIS PLAN IS TO DELINEATE THE BOUNDARY LINES OF THE PARCEL, IDENTIFY ANY ENCROACHMENTS OR EASEMENTS ON OR AGAINST THE SUBJECT PARCEL & DELINEATE THE EXISTING TOPOGRAPHY OF THE PROPERTY AS A PART OF AN ALTA/NSPS LAND TITLE SURVEY.

BY:

MARK D. BOYER- PLS # 1888
BOYER ASSOCIATES COA A-317

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

Surveyors Description

THAT CERTAIN PARCEL OF LAND SITUATED IN THE TOWN OF NORTH SMITHFIELD, COUNTY OF PROVIDENCE, STATE OF RHODE ISLAND BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE WESTERLY LINE OF POUND HILL ROAD, SAID POINT BEING THE SOUTHEASTERLY CORNER OF LAND NOW OR FORMERLY BELONGING TO SLATER HOMES LLC;
THENCE S61 40'35"W A DISTANCE OF TWENTY-SEVEN AND 75/100 (27.75) FEET TO A POINT;
THENCE S49 15'35"W A DISTANCE OF EIGHTY-SIX AND 67/100 (86.67) FEET TO A POINT;
THENCE S50 10'25"W A DISTANCE OF TWO HUNDRED EIGHTY-TWO AND 58/100 (282.58) FEET TO A POINT;
THENCE S23 17'25"W A DISTANCE OF ONE HUNDRED FIFTY-NINE AND 92/100 (159.92) FEET TO A POINT;
THENCE S21 01'37"W A DISTANCE OF ONE HUNDRED SEVEN AND 59/100 (107.59) FEET TO A POINT;
THENCE S65 26'23"W BOUNDED SOUTHEASTERLY IN PART BY LAND NOW OR FORMERLY BELONGING TO ROCHELLE WHITE AND IN PART BY LAND NOW OR FORMERLY BELONGING TO CHARLES S. WILSON A DISTANCE OF THREE HUNDRED NINETY-ONE AND 30/100 (391.30) FEET TO A POINT;
THENCE N53 58'22"W BOUNDED SOUTHWESTERLY IN PART BY SAID WHITE AND IN PART BY LAND NOW OR FORMERLY BELONGING TO CHARLES S. WILSON A DISTANCE OF ONE THOUSAND SIXTEEN AND 11/100 (1016.11) FEET TO A POINT;
THENCE RUNNING N0 14'11W A DISTANCE OF FOUR HUNDRED EIGHTY-NINE AND 91/100 (489.91)FEET TO A STONE BOUND;
THENCE N61 47'52"W A DISTANCE OF ONE HUNDRED THIRTY AND 31/100 (130.31) FEET TO A POINT;
THENCE S81 54'38"W A DISTANCE OF FIFTY-NINE AND 43/100 (59.43) FEET TO A POINT;
THENCE N65 37'41"W A DISTANCE OF FIVE HUNDRED NINETEEN AND 83/100 (519.83) FEET TO A POINT;
THENCE N11 34'55"W A DISTANCE OF FOUR HUNDRED THIRTY-TWO AND 85/100 (432.85) FEET TO A STONE BOUND;
THENCE S73 32'33"W A DISTANCE OF FIVE HUNDRED TWENTY-TWO AND 51/100 (522.51) FEET TO A POINT;
THENCE N65 37'41"W A DISTANCE OF TWO HUNDRED TWENTY-SIX AND 07/100 (226.07) FEET TO A POINT;
THENCE N1 47'51"E A DISTANCE OF FORTY-EIGHT AND 16/100 (48.16) FEET TO A POINT;
THENCE S73 32'51"W A DISTANCE OF SIXTY-SIX AND 58/100 (66.58) FEET TO A POINT;
THENCE N65 37'41"W A DISTANCE OF THREE HUNDRED THIRTY-SEVEN AND 11/100 (337.11) FEET TO A POINT, SAID LAST TEN COURSES BEING BOUNDED WESTERLY, SOUTHERLY, SOUTHEASTERLY, SOUTHERLY,WESTERLY, SOUTHWESTERLY,WESTERLY,SOUTHERLY AND SOUTHWESTERLY, RESPECTIVELY, BY LAND NOW OR FORMERLY BELONGING TO THE NARRAGANSETT ELECTRIC COMPANY;
THENCE N6 29'14"W A DISTANCE OF ONE HUNDRED SEVENTY-SEVEN AND 71/100 (177.71) FEET TO A POINT;
THENCE N7 46'43"W A DISTANCE OF THREE HUNDRED FIFTEEN AND 75/100 (315.75) FEET TO A POINT;
THENCE N33 10'57"W A DISTANCE OF EIGHTY-FIVE AND 67/100 (85.67) FEET TO A POINT;
THENCE N6-26-00W ONE HUNDRED EIGHTY AND 84/100 (180.84) FEET TO A POINT SAID LAST FOUR COURSES BEING BOUNDED,RESPECTIVELY, BY LAND NOW OR FORMERLY OWNED BY MCS ENTERPRISES LLC;
THENCE N83 -01'26"E BOUNDED NORTHERLY BY SAID LAND OF MCS ENTERPRISES LLC A DISTANCE OF NINE HUNDRED NINETY-EIGHT AND 87/100 (998.87) FEET TO A POINT;
THENCE S1 39'44"E A DISTANCE OF FIVE HUNDRED FIFTY-EIGHT AND 00/100 (558.00) FEET TO A POINT;
THENCE N77 01'56"E A DISTANCE OF ONE THOUSAND SEVEN HUNDRED EIGHT AND 29/100 (1708.29) FEET TO A CONCRETE BOUND;
THENCE CONTINUING N77 01'36"E A DISTANCE OF TWENTY-FIVE (25)FEET, MORE OR LESS, TO THE EDGE OF TROUTBROOK COVE, SAID LAST FOUR COURSES BEING BOUNDED NORTHERLY, EASTERLY, NORTHERLY AND NORTHERLY, RESPECTIVELY, BY SAID MCS ENTERPRISES LLC;
THENCE RUNNING IN A GENERAL SOUTHERLY DIRECTION PARTLY ALONG THE EDGE OF TROUTBROOK COVE AND BOUNDED EASTERLY IN PART BY LAND NOW OR FORMERLY OWNED BY THE TOWN OF NORTH SMITHFIELD A DISTANCE OF TWO THOUSAND FIFTEEN (2015) FEET, MORE OR LESS, TO A POINT;
THENCE N81 47'51"W A DISTANCE OF TWENTY-FIVE (25) FEET, MORE OR LESS, TO A STONE BOUND;
THENCE S24 40'22"E A DISTANCE OF THREE HUNDRED EIGHTY-SIX AND 97/100 (386.97) FEET TO A STONE BOUND;
THENCE N53 33'17"E A DISTANCE OF ONE HUNDRED THIRTY-ONE AND 42/100 (131.42) FEET TO A POINT;
THENCE N13 32'31"E A DISTANCE OF FOUR HUNDRED FORTY-SEVEN AND 61/100 (447.61) FEET TO A STONE BOUND;
THENCE S87 06'57"E A DISTANCE OF THREE HUNDRED SIXTY-EIGHT AND 44/100 (368.44) FEET TO A POINT SAID LAST FIVE COURSES BEING BOUNDED SOUTHERLY, EASTERLY, NORTHERLY WESTERLY AND NORTHERLY, REPECTIVELY, BY LAND NOW OR FORMERLY BELONGING TO THE TOWN OF NORTH SMITHFIELD;
THENCE S51 56'01"E A DISTANCE OF FIVE HUNDRED THIRTY-EIGHT AND 00/100 (538.00) FEET TO A POINT;
THENCE N33 03'39"E A DISTANCE OF THREE HUNDRED THIRTY-EIGHT AND 58/100 (338.58)FEET TO A STONE BOUND, SAID LAST TWO COURSES BEING BOUNDED NORTHEASTERLY AND SOUTHEASTERLY, RESPECTIVELY, BY LAND NOW OR FORMERLY OWNED BY THE UNITED STATES GOVERNMENT;
THENCE S87 06'57"E BOUNDED NORTHERLY BY LAND NOW OR FORMERLY BELONGING TO PAUL A. & AUDREY L. GODIN A DISTANCE OF EIGHTY-TWO AND 89/100 (82.89) FEET TO A STONE BOUND;
THENCE S0 35'35"W BOUNDED EASTERLY BY LAND NOW OR FORMERLY BELONGING TO SLATER HOMES LLC A DISTANCE OF THREE HUNDRED TWENTY-SEVEN AND 98/100 (327.98) FEET TO AN IRON PIPE;
THENCE S70 38'34W A DISTANCE OF TWO HUNDRED THIRTY-FIVE AND 00/100 (235.00) FEET TO AN IRON PIPE;
THENCE S0 35'35"W A DISTANCE OF TWO HUNDRED THIRTY-FIVE AND 00/100 (235.00) FEET TO A POINT IN THE NORTHERLY LINE OF POUND HILL ROAD, SAID LAST TWO COURSES BEING BOUNDED SOUTHERLY AND EASTERLY, RESPECTIVELY, BY LAND NOW OR FORMERLY BELONGING TO GERALD M. & NANCY ANN PERRON;
THENCE N84 15'31"W BOUNDED SOUTHERLY BY SAID POUND HILL ROAD A DISTANCE OF FORTY-NINE AND 74/100 (49.74) FEET TO A POINT;
THENCE N0 16'39"E A DISTANCE OF NINETY-SEVEN AND 75/100 (97.75) FEET TO A POINT;
THENCE N77 08'16"W A DISTANCE OF SIX HUNDRED NINETY-TWO AND 54/100 (692.54/100) FEET TO A POINT;
THENCE S12 50'57"W A DISTANCE OF ONE HUNDRED FIFTY-FIVE AND 00/100 (155.00) FEET TO A POINT;
THENCE S77 09'31"E A DISTANCE OF FORTY-NINE AND 93/100 (49.93) FEET TO A POINT;
THENCE N74 28'25"E A DISTANCE OF SEVENTEEN AND 07/100 (17.07) FEET TO A POINT;
THENCE S77 23'02"E A DISTANCE OF THREE HUNDRED SIXTY-THREE AND 00/100 (363.00) FEET TO THE POINT AND PLACE OF BEGINNING IN THE WESTERLY LINE OF SAID POUND HILL ROAD.

SAID PARCEL CONTAINS 104 ACRES, MORE OR LESS.

Surveyor Certification

TO: TPE RHODE ISLAND SOLAR HOLDINGS 2, LLC, DORIS M. CARON, WITH LIFE ESTATE RESERVED TO GRANTEE, DORIS M. CARON (PARCEL I), ALFRED M. CARON AND SANDRA M. CARON (AS TO PARCEL II), FIDELITY NATIONAL INSURANCE COMPANY:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6A, 6B, 7A, 7B(1), 7C, 8, 9, 11, 13, 14, 15, 16, 17, 19, 20, 21 AND 23* OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON (JANUARY 26, 2018).*

**CLIENT SPECIFIC REQUIREMENTS*
21. PRICING WILL BE GIVEN FOR TOPOGRAPHIC CONTOUR LINES ACCURATE WITHIN +/- 1 FOOT OF ACTUAL GRADE. SURVEYOR AND TURNINGPOINT ENERGY MUST ALL AGREE ON GRANULARITY OF CONTOUR LINES PRIOR TO EXECUTION OF ANY WORK. ALL CONTOUR LINES MUST EXTEND A MINIMUM OF 20 FEET BEYOND THE PARCEL BOUNDARIES OR THE LIMITS OF SURVEYING AS DEFINED BY TURNINGPOINT ENERGY

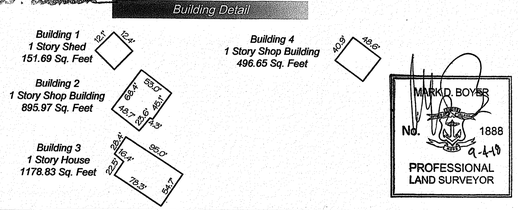
23. ALL POSSIBLE SITE ACCESS POINTS/PATHS FROM PUBLIC ROADS, WITH ALL SURVEY INFORMATION EXTENDING A MINIMUM OF 20 FEET BEYOND THE ACCESS POINT/PATH.

DATE: 9-4-18
BOYER ASSOCIATES C.O.A. # A317
DATE OF LAST REVISION:

MARK D. BOYER # 1888

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SHOWN IN THE LETTER OF APPROVAL
DATED SEP 13 2018 FILE # 18-0219
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

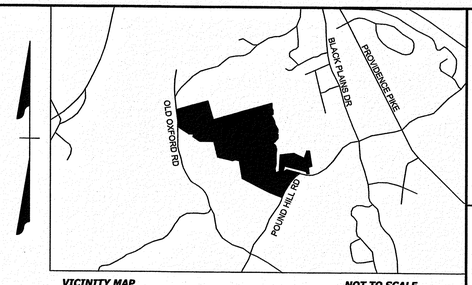
Building Detail



MARK D. BOYER
No. 1888
9-4-18
PROFESSIONAL LAND SURVEYOR

LEGEND

- 100.00' — Existing Property Line
- Right of Way Line
- Approximate Easement Line
- Setback Line (see notes)
- Existing Stone Wall
- Tree Line
- EGB — Existing Granite Bound
- ECB — Existing Concrete Bound
- EDH — Existing Drill Hole
- SDH — Set Drill Hole
- EIP — Existing Iron Pin
- PIP — Proposed Iron Pin
- Existing Utility Pole
- Existing Wood Post & Wire Fence
- Chain Link Fence
- Boulder Wall
- Overhead Power line
- 100U — Contour line (with Contour)
- Match-line
- WETLAND
- Water Meter
- 50' Perimeter Wetland
- Riverbank Wetland
- A-1 — Wetland Edge
- MW — Monitor well



VICINITY MAP **NOT TO SCALE**

Survey Notes

COMPLETED FIELD WORK:
JANUARY 26, 2018

BASIS OF BEARING:
NAD83 RHODE ISLAND STATE PLANE COORDINATE SYSTEM.

SOME FEATURES SHOWN ON THIS PLAT MAY BE SHOWN OUT OF SCALE FOR CLARITY

DIMENSIONS ON THIS PLAT ARE EXPRESSED IN FEET AND DECIMAL PARTS THEREOF UNLESS OTHERWISE NOTED. MONUMENTS WERE FOUND AT POINTS WHERE INDICATED.

A PORTION OF SUBJECT PARCEL LIES WITHIN "ZONE A" - NO BASE FLOOD ELEVATION ESTABLISHED- AND "ZONE X" 0.2% ANNUAL CHANCE FLOOD HAZARD , AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTH LESS THAN ONE FOOT OR WITH DRAINAGE AREAS LESS THAN ONE SQUARE MILE- AS DELINEATED ON FIRM FLOOD INSURANCE RATE MAP PROVIDENCE COUNTY, RHODE ISLAND. TOWN OF NORTH SMITHFIELD - COMMUNITY NUMBER-PANEL-SUFFIX 440021-0152-G MAP NUMBER 44007C0152G. EFFECTIVE DATE MARCH 2, 2009.

AT THE TIME OF THE ALTA SURVEY THERE WAS NO OBSERVABLE EVIDENCE OF EARTH WORK, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS WITHIN RECENT MONTHS.

AT THE TIME OF THE ALTA SURVEY THERE WERE NO CHANGES IN STREET RIGHT-OF-WAY LINES EITHER COMPLETED OR PROPOSED, AND AVAILABLE FROM THE CONTROLLING JURISDICTION OR OBSERVABLE EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION REPAIRS.

AT THE TIME OF THE ALTA SURVEY THERE WAS NO OBSERVABLE EVIDENCE OF SITE USE AS A SOLID WASTE DUMP, SUMP, OR SANITARY LANDFILL.

THERE IS EVIDENCE OF ENCROACHMENTS.

NON-OBSCURED AREAS ONLY MEET NATIONAL MAP ACCURACY STANDARDS. THE ACCURACY AND COMPLETENESS OF AREAS OBSCURED FROM AERIAL VIEW DUE TO VEGETATION (AS OUTLINED ON THE MAP) CANNOT BE GUARANTEED OR CERTIFIED UNLESS CONVENTIONAL GROUND SURVEYS ARE PERFORMED. ADDITIONAL GROUND TRUTHING WILL BE PERFORMED DURING THE WETLAND DELINEATION.

NO SURVEYOR OR ANY OTHER PERSON OTHER THAN A LICENSED RHODE ISLAND ATTORNEY MAY PROVIDE LEGAL ADVICE CONCERNING THE STATUS OF TITLE TO THE PROPERTY DESCRIBED IN THIS SURVEY (THE "SUBJECT PROPERTY"). THE PURPOSE OF THIS SURVEY, AND THE COMMENTS RELATED TO THE SCHEDULE B-II EXCEPTIONS, IS ONLY TO SHOW THE LOCATION OF BOUNDARIES AND PHYSICAL OBJECTIONS IN RELATION THERETO. TO THE EXTENT THAT THE SURVEY INDICATES THAT A LEGAL INSTRUMENT "AFFECTS" THE SUBJECT PROPERTY, SUCH STATEMENT IS ONLY INTENDED TO INDICATE THAT PROPERTY BOUNDARIES INCLUDED IN SUCH INSTRUMENT INCLUDE SOME OR ALL OF THE SUBJECT PROPERTY. THE SURVEYOR DOES NOT PURPORT TO KNOW HOW SUCH INSTRUMENT AFFECTS THE SUBJECT PROPERTY OR THE ENFORCEABILITY OR LEGAL CONSEQUENCES OF SUCH INSTRUMENT.

THE FOLLOWING STATEMENTS ARE APPLIED IN THE PHOTOGRAMMETRY PRODUCTION BY ASPRS POSITIONAL ACCURACY STANDARD FOR DIGITAL GEOSPATIAL DATA FOR 1' CONTOUR AND 50' MAPPING:
HORIZONTAL ACCURACY
THIS DATA SET WILL BE PRODUCED TO MEET ASPRS POSITIONAL ACCURACY STANDARDS FOR DIGITAL GEOSPATIAL DATA (2014) FOR A 15 (CM) RMSEX / RMSEY HORIZONTAL ACCURACY CLASS WHICH EQUATES TO POSITIONAL HORIZONTAL ACCURACY = +/- 36.7 CM AT A 95% CONFIDENCE LEVEL.

VERTICAL ACCURACY
THIS DATA SET WILL BE PRODUCED TO MEET ASPRS POSITIONAL ACCURACY STANDARDS FOR DIGITAL GEOSPATIAL DATA (2014) FOR A 10 CM RMSEZ VERTICAL ACCURACY CLASS EQUATING TO NVA =+/-19.6 CM AT 95% CONFIDENCE LEVEL AND VVA =+/- 30 CM AT THE 95TH PERCENTILE.

THE ORTHO IMAGERY RESOLUTION IS 0.25'. HORIZONTAL ACCURACY RMSEX / RMSEY IS 0.5'.

SURVEYOR DID NOT RECEIVE ANY INFORMATION FROM THE TITLE INSURER REGARDING THE CURRENT ZONING CLASSIFICATION OF THE PROPERTY OR ANY REQUIREMENTS RELATED TO THE APPLICABLE ZONING CLASSIFICATION. SURVEYOR OBTAINED THE ZONING INFORMATION REFLECTED ON THIS SURVEY ON HIS OWN. THE USER OF THIS SURVEY SHOULD CONSULT AN ATTORNEY OR TITLE INSURER TO VERIFY THE ZONING CLASSIFICATION OF THE PROPERTY AS WELL AS THE APPLICABLE RESTRICTIONS AND REQUIREMENTS ASSOCIATED WITH SUCH ZONING CLASSIFICATION.

SURVEYOR HAS GRAPHICALLY SHOWN SETBACKS BASED ON AN ASSUMPTION OF REAR & FRONT PROPERTY LINES.

LINE A-B-C-D-A IS AN AREA OF CONTENTION BASED ON RECORD DEEDS AND FIELD LOCATED MONUMENTS. MONUMENTATION WAS FOUND AT THE CORNERS AND ALONG LINE A-D. THE SURVEY COMPANY WAS CONTACTED BUT WAS NOT ALLOWED TO PROVIDE A COPY OF THEIR SURVEY AT THEIR CLIENTS DIRECTION. THE OWNERS OF BOTH PARCELS SHOULD PURSUE A BOUNDARY LINE AGREEMENT ALONG THE PARCEL IN QUESTION.

BOYER ASSOCIATES
1071 MAIN STREET
WEST WARWICK, RI 02893
TEL. (401)821-8872 FAX (401)826-1993

ALTA/NSPS LAND TITLE COMPREHENSIVE BOUNDARY SURVEY DATA ACCUMULATION SURVEY

A.P. LOT 12, A.P. LOT 23, A.P. LOT 24, A.P. LOT 46, A.P. LOT 53, A.P. LOT 66, A.P. LOT 81, A.P. LOT 82, A.P. LOT 83, A.P. LOT 84, A.P. LOT 85 CONTAINING

104± ACRES

NORTH SMITHFIELD, RHODE ISLAND

NORTH SMITHFIELD, RHODE ISLAND	
Date: 9/4/2018	Scale: 1"-100'
Sheet 1of 4	J.N.: 18-166
Drawn by: JH	Checked by: DR
Revised:	

3825 N. SHILOH DRIVE
FAYETTEVILLE, ARKANSAS 72703
OFFICE: 479.435.0505 FAX: 479.582.1883
www.RLEWING.com

THIS DRAWING PREPARED FOR:
TIMMONS GROUP, INC.
1001 BOULDER SPRINGS VALLEY
RICHMOND, VIRGINIA 23225
OFFICE: 804.200.6500
FAX: 804.560.1016
www.TIMMONS.com

YOUR VISION ACHIEVED THROUGH OURS.

TIMMONS GROUP

AP 4
Lot 47
n/f
MCS Enterprises LLC

AP 4
Lot 49
n/f
MCS Enterprises LLC

AP 7
Lot 12

AP 7
Lot 85
n/f
Narragansett Electric Company

AP 7
Lot 46
n/f
Narragansett Electric Company

AP 7
Lot 84
n/f
Narragansett Electric Company

AP 7
Lot 82
n/f
Narragansett Electric Company

AP 7
Lot 83
n/f
Narragansett Electric Company

AP 7
Lot 81
n/f
Narragansett Electric Company

UPLAND AREA

UPLAND AREA

UPLAND AREA

BENCHMARK
FOUND IRON PIN
N: 328944.60
E: 304027.16
ELEV: 315.69

Approximate Location Of Traveled Way As Evidenced In Aerial Photography From 1939–2014.

SEE NOTE
Area In Contention

Deed Call

AES Staked Line

East Line of Quiet Title Judgment

FORMERLY OLD QUONSET RD
PRIVATE ROAD QUIET TITLE C.A. NO. PC05-1652

15' Tennessee Gas Right Of Way Easement
LE Bk 118 Page 56
Special Exception No. 6 King Title

15' Tennessee Gas Right Of Way Easement
LE Bk 122 Page 244
Special Exception No. 4 Caron Title

50' Perimeter Wetland

Match Line PG 2
Match Line PG 3

Match Line PG 2
Match Line PG 4

NAD 83

SCALE 1"=100'
0 100' 200'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
SEE LETTER OF APPROVAL
SEP 13 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

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

LEGEND

- Existing Property Line
- Right of Way Line
- Approximate Easement Line
- Setback Line (see notes)
- Existing Stone Wall
- Tree Line
- EGB Existing Granite Bound
- ECB Existing Concrete Bound
- EDH Existing Drill Hole
- SDH Set Drill Hole
- EIP Existing Iron Pin
- PIP Proposed Iron Pin
- Existing Utility Pole
- Existing Wood Post & Wire Fence
- Chain Link Fence
- Boulder Wall
- OHP Overhead Power line
- Contour line (with Contour)
- Match-line
- WETLAND
- Water Meter
- 50' Perimeter Wetland
- Riverbank Wetland
- A-1 Wetland Edge
- Monitor well

THE FOLLOWING STATEMENTS ARE APPLIED IN THE PHOTOGRAMMETRY PRODUCTION BY ASPRS POSITIONAL ACCURACY STANDARD FOR DIGITAL GEOSPATIAL DATA FOR 1' CONTOUR AND 50' MAPPING:

HORIZONTAL ACCURACY
THIS DATA SET WILL BE PRODUCED TO MEET ASPRS POSITIONAL ACCURACY STANDARDS FOR DIGITAL GEOSPATIAL DATA (2014) FOR A 15 (CM) RMSEX / RMSEY HORIZONTAL ACCURACY CLASS WHICH EQUATES TO POSITIONAL HORIZONTAL ACCURACY = +/- 36.7 CM AT A 95% CONFIDENCE LEVEL.

VERTICAL ACCURACY
THIS DATA SET WILL BE PRODUCED TO MEET ASPRS POSITIONAL ACCURACY STANDARDS FOR DIGITAL GEOSPATIAL DATA (2014) FOR A 10 CM RMSEZ VERTICAL ACCURACY CLASS EQUATING TO NVA =+/-19.6 CM AT 95% CONFIDENCE LEVEL AND VVA =+/- 30 CM AT THE 95TH PERCENTILE.

THE ORTHO IMAGERY RESOLUTION IS 0.25'. HORIZONTAL ACCURACY RMSEX / RMSEY IS 0.5'.

MARK D. BOYER
No. 1888
PROFESSIONAL LAND SURVEYOR

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TEL. (401)821-8872 FAX (401)826-1993

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104± ACRES

NORTH SMITHFIELD, RHODE ISLAND

NORTH SMITHFIELD, RHODE ISLAND	
Date: 9/4/2018	Scale: 1"-100'
Sheet 2of 4	J.N.: 18-166
Drawn by: JH	Checked by: DR
Revised:	

THIS DRAWING PREPARED AT
BLEW & ASSOCIATES, INC
3825 N. SHILOH DRIVE
FAYETTEVILLE, ARKANSAS 72703
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1001 BOULDERS PARKWAY
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OFFICE: 804.200.6500
FAX: 804.560.1016
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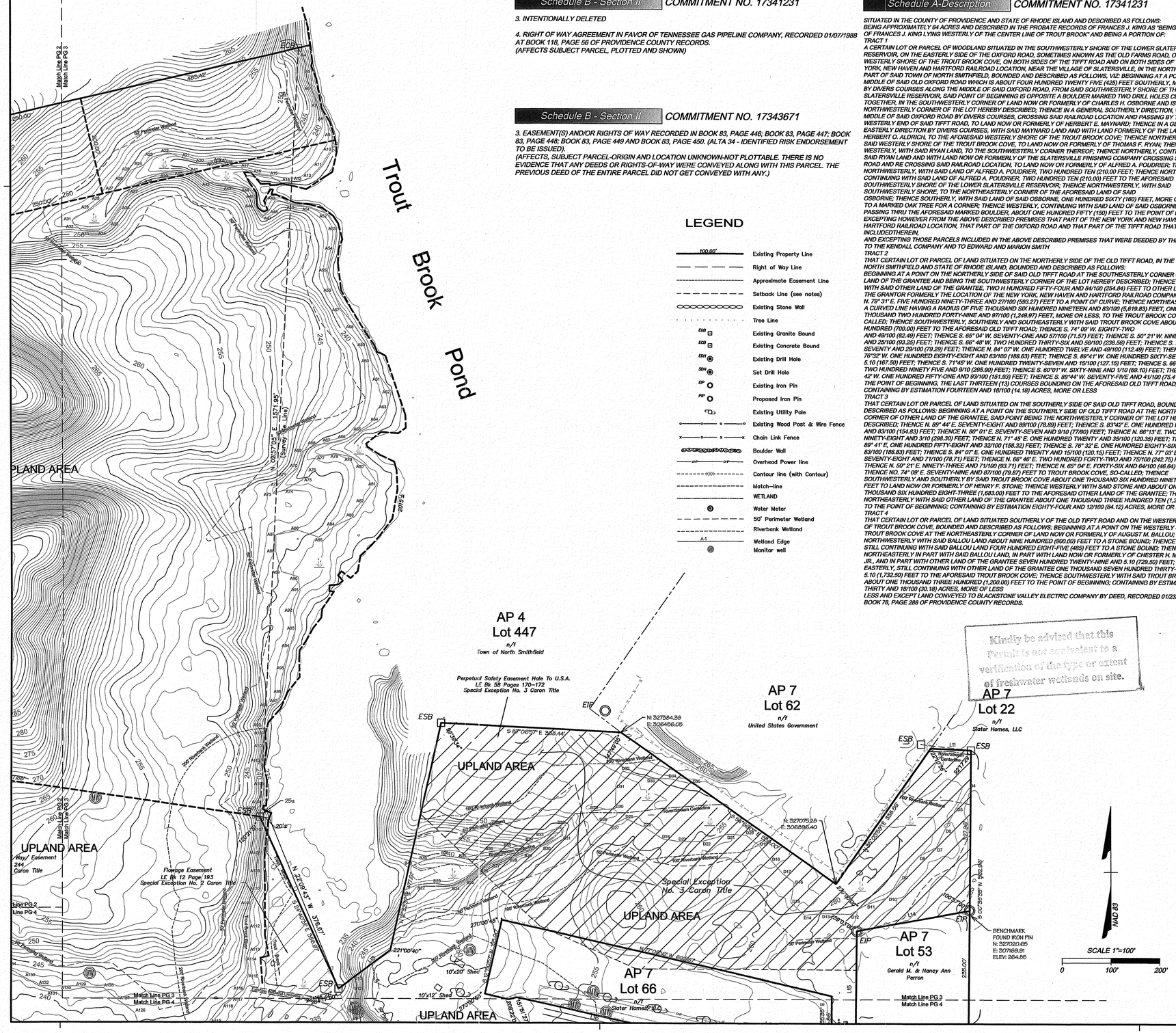

Schedule B - Section II — COMMITMENT NO. 17341231

3. INTENTIONALLY DELETED

4. RIGHT OF WAY AGREEMENT IN FAVOR OF TENNESSEE GAS PIPELINE COMPANY, RECORDED 01/07/1988 AT BOOK 118, PAGE 56 OF PROVIDENCE COUNTY RECORDS.
(AFFECTS SUBJECT PARCEL, PLOTTED AND SHOWN)

Schedule B - Section II — COMMITMENT NO. 17343671

3. EASEMENT(S) AND/OR RIGHTS OF WAY RECORDED IN BOOK 83, PAGE 446; BOOK 83, PAGE 447; BOOK 83, PAGE 448; BOOK 83, PAGE 449 AND BOOK 83, PAGE 450. (ALTA 34 - IDENTIFIED RISK ENDORSEMENT TO BE ISSUED).
(AFFECTS, SUBJECT PARCEL-ORIGIN AND LOCATION UNKNOWN-NOT PLOTTABLE. THERE IS NO EVIDENCE THAT ANY DEEDS OR RIGHTS-OF-WAY WERE CONVEYED ALONG WITH THIS PARCEL. THE PREVIOUS DEED OF THE ENTIRE PARCEL DID NOT GET CONVEYED WITH ANY.)

LEGEND

- Existing Property Line
- Right of Way Line
- Approximate Easement Line
- Setback Line (see notes)
- Existing Stone Wall
- Tree Line
- Existing Granite Bound
- Existing Concrete Bound
- Existing Drill Hole
- Set Drill Hole
- Existing Iron Pin
- Proposed Iron Pin
- Existing Utility Pole
- Existing Wood Post & Wire Fence
- Chain Link Fence
- Boulder Wall
- Overhead Power line
- Contour line (with Contour)
- Match-line
- WETLAND
- Water Meter
- 50' Perimeter Wetland
- Riverbank Wetland
- Wetland Edge
- Monitor well

Schedule A-Description — COMMITMENT NO. 17341231

SITUATED IN THE COUNTY OF PROVIDENCE AND STATE OF RHODE ISLAND AND DESCRIBED AS FOLLOWS:
BEING APPROXIMATELY 64 ACRES AND DESCRIBED IN THE PROBATE RECORDS OF FRANCES J. KING AS "BEING ALL LAND OF FRANCES J. KING LYING WESTERLY OF THE CENTER LINE OF TROUT BROOK" AND BEING A PORTION OF:
TRACT 1
A CERTAIN LOT OR PARCEL OF WOODLAND SITUATED IN THE SOUTHWESTERLY SHORE OF THE LOWER SLATERSVILLE RESERVOIR, ON THE EASTERLY SIDE OF THE OXFORD ROAD, SOMETIMES KNOWN AS THE OLD FARMS ROAD, ON THE WESTERLY SHORE OF THE TROUT BROOK COVE, ON BOTH SIDES OF THE TIFFT ROAD AND ON BOTH SIDES OF THE NEW YORK, NEW HAVEN AND HARTFORD RAILROAD LOCATION, NEAR THE VILLAGE OF SLATERSVILLE, IN THE NORTHWESTERLY PART OF SAID TOWN OF NORTH SMITHFIELD, BOUNDED AND DESCRIBED AS FOLLOWS, VIZ: BEGINNING AT A POINT IN THE MIDDLE OF SAID OLD OXFORD ROAD WHICH IS ABOUT FOUR HUNDRED TWENTY FIVE (425) FEET SOUTHERLY, MEASURED BY DIVERS COURSES ALONG THE MIDDLE OF SAID OXFORD ROAD, FROM SAID SOUTHWESTERLY SHORE OF THE LOWER SLATERSVILLE RESERVOIR, SAID POINT OF BEGINNING IS OPPOSITE A BOULDER MARKED TWO DRILL HOLES CLOSE TOGETHER, IN THE SOUTHWESTERLY CORNER OF LAND NOW OR FORMERLY OF CHARLES H. OSBORNE AND IS THE NORTHWESTERLY CORNER OF THE LOT HEREBY DESCRIBED; THENCE IN A GENERAL SOUTHERLY DIRECTION, WITH THE MIDDLE OF SAID OXFORD ROAD BY DIVERS COURSES, CROSSING SAID RAILROAD LOCATION AND PASSING BY THE WESTERLY END OF SAID TIFFT ROAD, TO LAND NOW OR FORMERLY OF HERBERT E. MAYNARD; THENCE IN A GENERAL EASTERLY DIRECTION BY DIVERS COURSES, WITH SAID MAYNARD LAND AND WITH LAND FORMERLY OF THE LATE HERBERT O. ALDRICH, TO THE AFORESAID WESTERLY SHORE OF THE TROUT BROOK COVE; THENCE NORTHERLY WITH SAID WESTERLY SHORE OF THE TROUT BROOK COVE, TO LAND NOW OR FORMERLY OF THOMAS F. RYAN; THENCE WESTERLY, WITH SAID RYAN LAND, TO THE SOUTHWESTERLY CORNER THEREOF; THENCE NORTHERLY, CONTINUING WITH SAID RYAN LAND AND WITH LAND NOW OR FORMERLY OF THE SLATERSVILLE FINISHING COMPANY CROSSING SAID TIFFT ROAD AND RE CROSSING SAID RAILROAD LOCATION, TO LAND NOW OR FORMERLY OF ALFRED A. POUDRIER; THENCE NORTHWESTERLY, WITH SAID LAND OF ALFRED A. POUDRIER, TWO HUNDRED TEN (210.00) FEET; THENCE NORTHERLY, CONTINUING WITH SAID LAND OF ALFRED A. POUDRIER, TWO HUNDRED TEN (210.00) FEET TO THE AFORESAID SOUTHWESTERLY SHORE OF THE LOWER SLATERSVILLE RESERVOIR; THENCE NORTHWESTERLY, WITH SAID SOUTHWESTERLY SHORE, TO THE NORTHEASTERLY CORNER OF THE AFORESAID LAND OF SAID OSBORNE; THENCE SOUTHERLY, WITH SAID LAND OF SAID OSBORNE, ONE HUNDRED SIXTY (160) FEET, MORE OR LESS, TO A MARKED OAK TREE FOR A CORNER; THENCE WESTERLY, CONTINUING WITH SAID LAND OF SAID OSBORNE AND PASSING THRU THE AFORESAID MARKED BOULDER, ABOUT ONE HUNDRED FIFTY (150) FEET TO THE POINT OF BEGINNING.
EXCEPTING HOWEVER FROM THE ABOVE DESCRIBED PREMISES THAT PART OF THE NEW YORK AND NEW HAVEN AND HARTFORD RAILROAD LOCATION, THAT PART OF THE OXFORD ROAD AND THAT PART OF THE TIFFT ROAD THAT ARE INCLUDEDTHEREIN,
AND EXCEPTING THOSE PARCELS INCLUDED IN THE ABOVE DESCRIBED PREMISES THAT WERE DEEDED BY THIS GRANTOR TO THE KENDALL COMPANY AND TO EDWARD AND MARION SMITH
TRACT 2
THAT CERTAIN LOT OR PARCEL OF LAND SITUATED ON THE NORTHERLY SIDE OF THE OLD TIFFT ROAD, IN THE TOWN OF NORTH SMITHFIELD AND STATE OF RHODE ISLAND, BOUNDED AND DESCRIBED AS FOLLOWS:
BEGINNING AT A POINT ON THE NORTHERLY SIDE OF SAID OLD TIFFT ROAD AT THE SOUTHEASTERLY CORNER OF OTHER LAND OF THE GRANTEE AND BEING THE SOUTHWESTERLY CORNER OF THE LOT HEREBY DESCRIBED; THENCE N. 8° 59' E . WITH SAID OTHER LAND OF THE GRANTEE, TWO H UNDRED FIFTY-FOUR AND 94/100 (254.94) FEET TO OTHER LAND OF THE GRANTOR FORMERLY THE LOCATION OF THE NEW YORK, NEW HAVEN AND HARTFORD RAILROAD COMPANY; THENCE N. 79° 31' E. FIVE HUNDRED NINETY-THREE AND 27/100 (593.27) FEET TO A POINT OF CURVE; THENCE NORTHEASTERLY ON A CURVED LINE HAVING A RADIUS OF FIVE THOUSAND SIX HUNDRED NINETEEN AND 83/100 (5,619.83) FEET, ONE THOUSAND TWO HUNDRED FORTY-NINE AND 97/100 (1,249.97) FEET, MORE OR LESS, TO THE TROUT BROOK COVE, SO CALLED; THENCE SOUTHWESTERLY, SOUTHERLY AND SOUTHEASTERLY WITH SAID TROUT BROOK COVE ABOUT SEVEN HUNDRED (700.00) FEET TO THE AFORESAID OLD TIFFT ROAD; THENCE S. 74° 09' W. EIGHTY-TWO AND 49/100 (82.49) FEET; THENCE S. 65° 04' W. SEVENTY-ONE AND 57/100 (71.57) FEET; THENCE S. 80° 21' W. NINETY-THREE AND 25/100 (93.25) FEET; THENCE S. 66° 48' W. TWO HUNDRED THIRTY-SIX AND 58/100 (236.58) FEET; THENCE S. 77° 03' W. SEVENTY AND 29/100 (79.29) FEET; THENCE N. 84° 07' W. ONE HUNDRED TWELVE AND 49/100 (112.49) FEET; THENCE N. 76°32' W. ONE HUNDRED EIGHTY-EIGHT AND 63/100 (188.63) FEET; THENCE S. 89°41' W. ONE HUNDRED SIXTY-SEVEN AND 5.10 (167.50) FEET; THENCE S. 71°45' W. ONE HUNDRED TWENTY-SEVEN AND 15/100 (127.15) FEET; THENCE S. 89° 13' W. TWO HUNDRED NINETY FIVE AND 9/10 (295.90) FEET; THENCE S. 60°01' W. SIXTY-NINE AND 1/10 (69.10) FEET; THENCE N. 83° 42' W. ONE HUNDRED FIFTY-ONE AND 93/100 (151.93) FEET; THENCE S. 89°44' W. SEVENTY-FIVE AND 41/100 (75.41) FEET TO THE POINT OF BEGINNING, THE LAST THIRTEEN (13) COURSES BOUNDING ON THE AFORESAID OLD TIFFT ROAD;
CONTAINING BY ESTIMATION FOURTEEN AND 18/100 (14.18) ACRES, MORE OR LESS
TRACT 3
THAT CERTAIN LOT OR PARCEL OF LAND SITUATED ON THE SOUTHERLY SIDE OF SAID OLD TIFFT ROAD, BOUNDED AND DESCRIBED AS FOLLOWS: BEGINNING AT A POINT ON THE SOUTHERLY SIDE OF OLD TIFFT ROAD AT THE NORTHEASTERLY CORNER OF OTHER LAND OF THE GRANTEE, SAID POINT BEING THE NORTHWESTERLY CORNER OF THE LOT HEREBY DESCRIBED; THENCE N. 88° 44' E. SEVENTY-EIGHT AND 88/100 (78.88) FEET; THENCE S. 83°42' E. ONE HUNDRED FIFTY-FOUR AND 83/100 (154.83) FEET; THENCE N. 80° 01' E. SEVENTY-SEVEN AND 9/10 (77/90) FEET; THENCE N. 66°13' E. TWO HUNDRED NINETY-EIGHT AND 3/10 (298.30) FEET; THENCE N. 71° 45' E. ONE HUNDRED TWENTY AND 35/100 (120.35) FEET; THENCE N. 89° 41' E. ONE HUNDRED FIFTY-EIGHT AND 32/100 (158.32) FEET; THENCE S. 76° 32' E. ONE HUNDRED EIGHTY-SIX AND 83/100 (186.83) FEET; THENCE S. 84° 07' E. ONE HUNDRED TWENTY AND 15/100 (120.15) FEET; THENCE N. 77° 03' E. SEVENTY-EIGHT AND 71/100 (78.71) FEET; THENCE N. 66° 46' E. TWO HUNDRED FORTY-TWO AND 75/100 (242.75) FEET; THENCE N. 50° 21' E. NINETY-THREE AND 71/100 (93.71) FEET; THENCE N. 65° 04' E. FORTY-SIX AND 64/100 (46.64) FEET; THENCE NO. 74° 09' E. SEVENTY-NINE AND 87/100 (79.87) FEET TO TROUT BROOK COVE, SO-CALLED; THENCE SOUTHWESTERLY AND SOUTHERLY BY SAID TROUT BROOK COVE ABOUT ONE THOUSAND SIX HUNDRED NINETY (1,690.00) FEET TO LAND NOW OR FORMERLY OF HENRY F. STONE; THENCE WESTERLY WITH SAID STONE AND ABOUT ONE THOUSAND SIX HUNDRED EIGHT-THREE (1,683.00) FEET TO THE AFORESAID OTHER LAND OF THE GRANTEE; THENCE NORTHEASTERLY WITH SAID OTHER LAND OF THE GRANTEE ABOUT ONE THOUSAND THREE HUNDRED TEN (1,310.00) FEET TO THE POINT OF BEGINNING; CONTAINING BY ESTIMATION EIGHTY-FOUR AND 12/100 (84.12) ACRES, MORE OR LESS.
TRACT 4
THAT CERTAIN LOT OR PARCEL OF LAND SITUATED SOUTHERLY OF THE OLD TIFFT ROAD AND ON THE WESTERLY SHORE OF TROUT BROOK COVE, BOUNDED AND DESCRIBED AS FOLLOWS: BEGINNING AT A POINT ON THE WESTERLY SIDE OF TROUT BROOK COVE AT THE NORTHEASTERLY CORNER OF LAND NOW OR FORMERLY OF AUGUST M. BALLOU; THENCE NORTHWESTERLY WITH SAID BALLOU LAND ABOUT NINE HUNDRED (900.00) FEET TO A STONE BOUND; THENCE WESTERLY STILL CONTINUING WITH SAID BALLOU LAND FOUR HUNDRED EIGHT-FIVE (485) FEET TO A STONE BOUND; THENCE NORTHEASTERLY IN PART WITH SAID BALLOU LAND, IN PART WITH LAND NOW OR FORMERLY OF CHESTER H. MAYNARD, JR., AND IN PART WITH OTHER LAND OF THE GRANTEE SEVEN HUNDRED TWENTY-NINE AND 5.10 (729.50) FEET; THENCE EASTERLY, STILL CONTINUING WITH OTHER LAND OF THE GRANTEE ONE THOUSAND SEVEN HUNDRED THIRTY-TWO AND 5.10 (1,732.50) FEET TO THE AFORESAID TROUT BROOK COVE; THENCE SOUTHWESTERLY WITH SAID TROUT BROOK COVE ABOUT ONE THOUSAND THREE HUNDRED (1,300.00) FEET TO THE POINT OF BEGINNING; CONTAINING BY ESTIMATION THIRTY AND 18/100 (30.18) ACRES, MORE OF LESS
LESS AND EXCEPT LAND CONVEYED TO BLACKSTONE VALLEY ELECTRIC COMPANY BY DEED, RECORDED 01/23/1970 AS BOOK 78, PAGE 288 OF PROVIDENCE COUNTY RECORDS.

Schedule A-Description — COMMITMENT NO. 17343671

AP 07 LOT 101
A CERTAIN LOT OR PARCEL OF LAND SITUATED EASTERLY OF OLD OXFORD ROAD IN THE TOWN OF NORTH SMITHFIELD, COUNTY OF PROVIDENCE AND STATE OF RHODE ISLAND, HOUNDED AND DESCRIBED AS FOLLOWS:
BEGINNING AT A POINT WHICH IS THE MOST SOUTHWESTERLY COMER OF LAND NOW OR FORMERLY OF TROUTBROOK FARMS AND BEING THE MOST NORTHWESTERLY COMER OF THE LOT HEREBY DESCRIBED; THENCE EASTERLY BOUNDING NORTHERLY BY LAND OF SAID TROUTBROOK FARMS TWO HUNDRED FIFTY (250) FEET, MORE OR LESS TO LAND NOW OR FORMERLY OF SCOTT AND CHERYL A. DONAHUE; THENCE SOUTHERLY, BOUNDING EASTERLY ON SAID DONAHUE LAND, TWO HUNDRED (200) FEET, MORE OR LESS, TO LAND NOW OR FORMERLY OF WILLIAM H. KING; THENCE WESTERLY TWO HUNDRED FIFTY (250) FEET, MORE OR LESS; THENCE NORTHERLY TWO HUNDRED (200) FEET, MORE OR LESS, TO THE POINT OR PLACE OF BEGINNING, THE LAST TWO LINES BOUNDING ON SAID KING LAND. CONTAINING ABOUT ONE (1) ACRE, MORE OR LESS.

AP 07, LOT 102
A CERTAIN LOT OR PARCEL OF LAND SITUATED EASTERLY OF OLD OXFORD ROAD IN THE TOWN OF NORTH SMITHFIELD, COUNTY OF PROVIDENCE AND STATE OF RHODE ISLAND, BOUNDED AND DESCRIBED AS FOLLOWS:
BEGINNING AT A POINT WHICH IS THE MOST NORTHEASTERLY CORNER OF LAND NOW OR FORMERLY OF WAYNE E. AND JEANNE M. STONE AND BEING THE MOST NORTHWESTERLY CORNER OF THE LOT HEREIN DESCRIBED; THENCE EASTERLY, BOUNDING NORTHERLY BY LAND NOW OR FORMERLY OF TROUTBROOK FARMS, TWO HUNDRED FIFTY (250) FEET, MORE OR LESS, TO LAND NOW OR FORMERLY OF WALLACE E. STONE; THENCE SOUTHERLY, BOUNDING EASTERLY ON LAND NOW OR FORMERLY OF SAID WALLACE E. STONE TWO HUNDRED (200) FEET, MORE OR LESS TO LAND NOW OR FORMERLY OF WILLIAM A. KING; THENCE WESTERLY. BOUNDING SOUTHERLY ON SAID KING LAND TWO HUNDRED FIFTY (250) FEET, MORE OR LESS, TO LAND OF SAID WAYNE E. AND JEANNE M. STONE, NOW OR FORMERLY; THENCE NORTHERLY, BOUNDING WESTERLY ON SAID STONE LAND TWO HUNDRED (200) FEET, MORE OR LESS TO THE POINT OR PLACE OR BEGINNING. CONTAINING ABOUT ONE (1) ACRE, MORE OR LESS.

AP 07, LOT 103
A CERTAIN LOT OR PARCEL OF LAND SITUATED EASTERLY OF OLD OXFORD ROAD IN THE TOWN OF NORTH SMITHFIELD, COUNTY OF PROVIDENCE AND STATE OF RHODE ISLAND, BOUNDED AND DESCRIBED AS FOLLOWS:
BEGINNING AT A POINT WHICH IS THE MOST NORTHEASTERLY COMER OF LAND NOW OR FORMERLY OF SCOTT AND CHERYL A. DONAHUE AND THE MOST NORTHWESTERLY COMER OF THE LOT HEREBY DESCRIBED; THENCE EASTERLY BOUNDING NORTHERLY ON LAND NOW OR FORMERLY OF TROUTBROOK FARMS TWO HUNDRED FIFTY (250) FEET, MORE OR LESS, TO LAND NOW OR FORMERLY OF KEITH M. STONE; THENCE SOUTHERLY, BOUNDING EASTERLY ON SAID KEITH M. STONE LAND TWO HUNDRED (200) FEET, MORE OR LESS, TO LAND NOW OR FORMERLY OF WILLIAM H. KING; THENCE WESTERLY BOUNDING SOUTHERLY ON SAID KEITH M. STONE LAND, TWO HUNDRED FIFTY (250) FEET, MORE OR LESS, TO LAND OF SAID DONAHUE; THENCE NORTHERLY BOUNDING WESTERLY ON SAID DONAHUE LAND TWO HUNDRED (200) FEET TO THE POINT OR PLACE OF BEGINNING.
CONTAINING ABOUT ONE (1) ACRE, MORE OR LESS.

AP 07, LOT 104
A CERTAIN LOT OR PARCEL OF LAND SITUATED EASTERLY OF OLD OXFORD ROAD IN THE TOWN OF NORTH SMITHFIELD, COUNTY OF PROVIDENCE AND STATE OF RHODE ISLAND, BOUNDED AND DESCRIBED AS FOLLOWS:
BEGINNING AT A POINT WHICH IS THE MOST NORTHEASTERLY CORNER OF LAND, NOW OR FORMERLY, OF GARY H. AND CHRISTINE A. STONE AND BEING THE MOST NORTHWESTERLY CORNER OF THE LOT HEREBY DESCRIBED; THENCE EASTERLY BOUNDING NORTHERLY ON LAND, NOW OR FORMERLY, OF TROUTBROOK FARMS TWO HUNDRED FIFTY (250) FEET, MORE OR LESS, TO LAND NOW OR FORMERLY OF KYLE E. STONE; THENCE SOUTHERLY BOUNDING EASTERLY ON LAND OF SAID KYLE E. STONE TWO HUNDRED (200) FEET, MORE OR LESS, TO LAND NOW OR FORMERLY OF WILLIAM H. KING; THENCE WESTERLY BOUNDING SOUTHERLY ON SAID KING LAND TWO HUNDRED FIFTY (250) FEET, MORE OR LESS, TO LAND OF SAID GARY H. AND CHRISTINE A. STONE; THENCE NORTHERLY BOUNDING WESTERLY ON SAID GARY H. AND CHRISTINE A. STONE LAND TWO HUNDRED (200) FEET, MORE OR LESS, TO THE POINT OR PLACE OF BEGINNING. CONTAINING ABOUT ONE (1) ACRE MORE OR LESS.

AP 07, LOT 105
A CERTAIN LOT OR PARCEL OF LAND SITUATED EASTERLY OF OLD OXFORD ROAD IN THE TOWN OF NORTH SMITHFIELD, COUNTY OF PROVIDENCE AND STATE OF RHODE ISLAND BOUNDED AND DESCRIBED AS FOLLOWS:
BEGINNING AT A POINT WHICH IS THE MOST NORTHEASTERLY CORNER OF LAND NOW OR FORMERLY OF KEITH M. STONE AND BEING THE MOST NORTHWESTERLY COMER OF THE LOT HEREBY DESCRIBED; THENCE EASTERLY BOUNDING NORTHERLY ON LAND NOW OR FORMERLY OF TROUTBROOK FARMS TWO HUNDRED FIFTY (250) FEET, MORE OR LESS, TO LAND NOW OR FORMERLY OF WALLACE E. STONE; THENCE SOUTHERLY BOUNDING EASTERLY ON SAID WALLACE E. STONE LAND TWO HUNDRED (200) FEET, MORE OR LESS, TO LAND NOW OR FORMERLY OF WILLIAM H. KING; THENCE WESTERLY, BOUNDING SOUTHERLY ON SAID KING LAND TWO HUNDRED FIFTY (250) FEET, MORE OR LESS, TO LAND OF SAID KEITH M. STONE; THENCE NORTHERLY BOUNDING WESTERLY ON SAID KEITH M. STONE LAND TWO HUNDRED (200) FEET, MORE OR LESS TO THE POINT OR PLACE OF BEGINNING. CONTAINING ABOUT ONE (1) ACRE MORE OR LESS.

AP 07, LOT 014
A CERTAIN TRACT OF LAND SITUATED IN SAID TOWN OF NORTH SMITHFIELD (FORMERLY SMITHFIELD) AND CONTAINING BY ESTIMATION IN THE WHOLE ABOUT SEVEN AND A HALF ACRES, BE THE SAME MORE OR LESS. IT IS BOUNDED AS FOLLOWS:
BEGINNING AT THE SOUTHWEST COMER AT A STAKE AND STONES. THENCE NORTH 79 ° E ., 71) FEET LAND BELONGING NOW OR FORMERLY TO HENRY MANSFIELD. JR ., TO A PITCH PINE KNOT AND STONE SET IN THE GROUND BY THE SIDE OF WILLIAM SLATERS'S, POND, THENCE NORTHERLY WITH SAID POND 10 14 RODS TO A CHESTNUT STAKE, THENCE WESTERLY OR SOUTH ABOUT 80° WEST WITH LAND NOW OR FORMERLY BELONGING TO WILLIAM SLATER TO A STAKE AND STONES, THENCE SOUTH 4 1/2 °, E. 12 1/2 RODS TO THE FIRST MENTIONED BOUND.

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 SEP 13 2019 FILE # 18-034
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

MARK D. BOYER
No. 1888
PROFESSIONAL LAND SURVEYOR

BOYER ASSOCIATES
1071 MAIN STREET
WEST WARWICK, RI 02893
TEL. (401)821-8872 FAX (401)826-1993

ALTA/NSPS LAND TITLE
COMPREHENSIVE BOUNDARY SURVEY
DATA ACCUMULATION SURVEY
A.P. LOT 12, A.P. LOT 23, A.P. LOT 24, A.P. LOT 46, A.P. LOT 53, A.P. LOT 66, A.P. LOT 81, A.P. LOT 82, A.P. LOT 83, A.P. LOT 84, A.P. LOT 85 CONTAINING

104± ACRES

NORTH SMITHFIELD, RHODE ISLAND

NORTH SMITHFIELD, RHODE ISLAND	
Date: 9/4/2018	Scale: 1"-100'
Sheet 3of 4	J.N.: 18-166
Drawn by: JH	Checked by: DR
Revised:	

THIS DRAWING PREPARED AT
BLEW & ASSOCIATES, INC
3825 N. SHILOH DRIVE
FAYETTEVILLE, ARKANSAS 72703
OFFICE: 479.443.4506 FAX: 479.382.1883
www.BLEWINC.com

THIS DRAWING PREPARED FOR:
TIMMONS GROUP, INC.
1001 BOULDERS PARKWAY
RICHMOND, VIRGINIA 23225
OFFICE: 804.200.6500
FAX: 804.560.1016
www.TIMMONS.com

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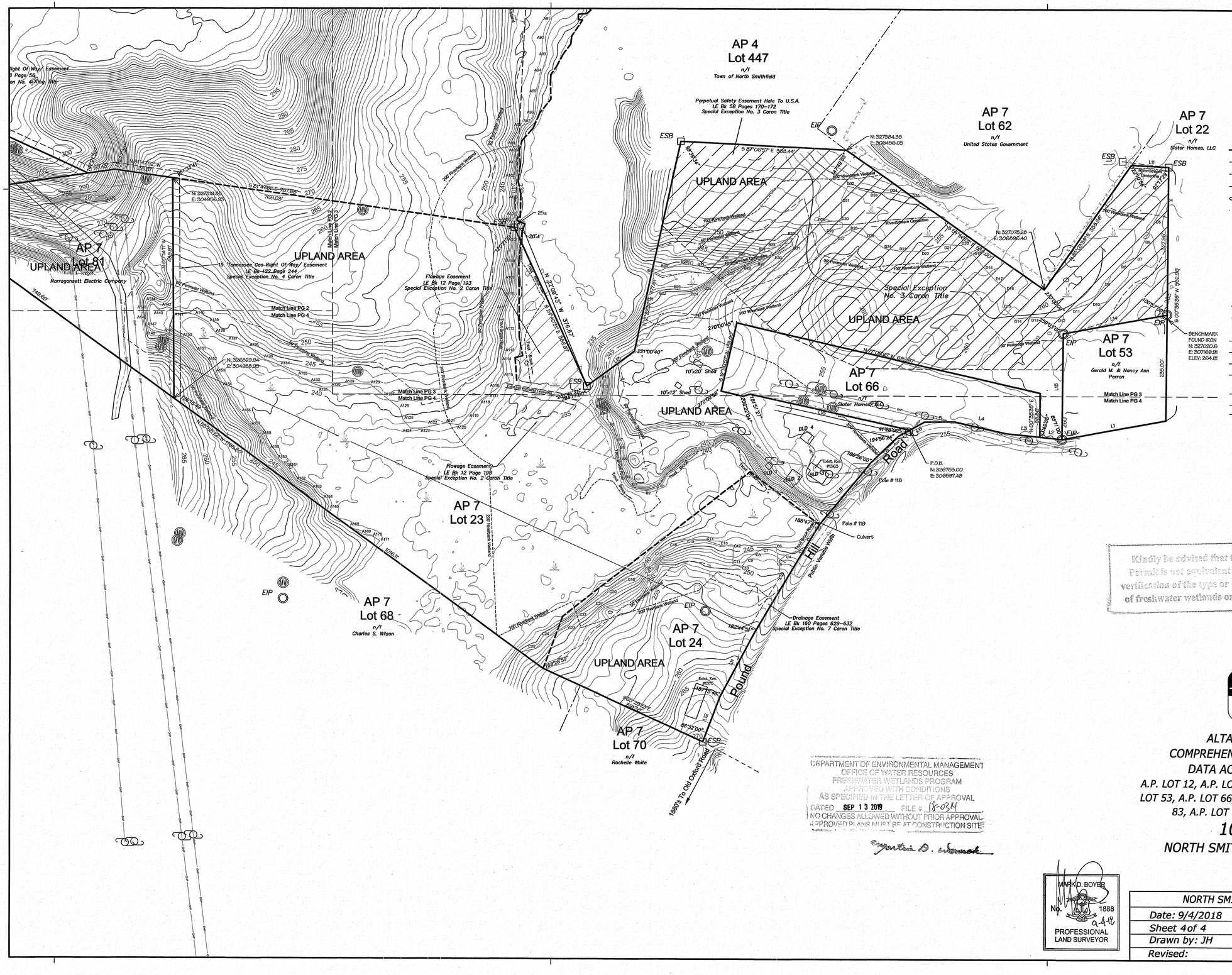
TIMMONS GROUP



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

NAD 83

SCALE 1"=100'

0 100' 200'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED SEP 13 2018 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Cynthia D. Gilmore

MARK D. BOYER
No. 1888
PROFESSIONAL LAND SURVEYOR

BOYER ASSOCIATES
1071 MAIN STREET
WEST WARWICK, RI 02893
TEL: (401)821-8872 FAX (401)826-1993

ALTA/NSPS LAND TITLE
COMPREHENSIVE BOUNDARY SURVEY
DATA ACCUMULATION SURVEY
A.P. LOT 12, A.P. LOT 23, A.P. LOT 24, A.P. LOT 46, A.P. LOT 53, A.P. LOT 66, A.P. LOT 81, A.P. LOT 82, A.P. LOT 83, A.P. LOT 84, A.P. LOT 85 CONTAINING

104± ACRES

NORTH SMITHFIELD, RHODE ISLAND

NORTH SMITHFIELD, RHODE ISLAND	
Date: 9/4/2018	Scale: 1"-100'
Sheet 4of 4	J.N.: 18-166
Drawn by: JH	Checked by: DR
Revised:	

THIS DRAWING PREPARED AT
BLEW & ASSOCIATES, INC
3825 N. SHILOH DRIVE
FAYETTEVILLE, ARKANSAS 72703
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TIMMONS GROUP

SITE PLAN FOR

TPE KING SOLAR

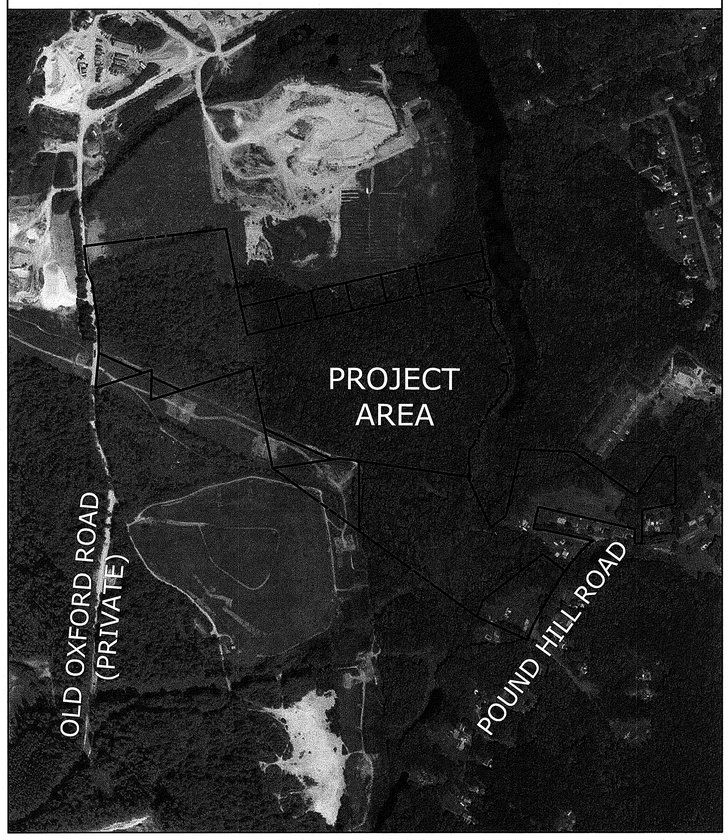
OLD OXFORD ROAD

NORTH SMITHFIELD, RHODE ISLAND 02896

JULY 9, 2018

LAST REVISED: JANUARY 28, 2019

SITE MAP



GRAPHIC SCALE
500' 250' 0 500'
SCALE IN FEET
1" = 500'

TABLE OF DRAWINGS

SITE/CIVIL ENGINEERING PLANS

DWG. NO.	TITLE
C-1	TITLE SHEET
C-1.1	NOTES & TABLES
C-2	EXISTING CONDITIONS
C-2.1	EXISTING SLOPE MAP
C-3	DEMOLITION PLAN
C-4	OVERALL SITE PLAN
C-4.1	SITE PLAN - WEST
C-4.2	SITE PLAN - EAST
C-4.3	SITE PLAN - SOUTH
C-5	OVERALL GRADING PLAN
C-5.1	GRADING PLAN - WEST
C-5.2	GRADING PLAN - EAST
C-5.3	GRADING PLAN - SOUTH
C-5.4	GRADING PLAN - BASIN #1
C-5.5	GRADING PLAN - BASIN #2
C-5.6	GRADING PLAN - BASIN #3
C-5.7	BASIN 1 - PIPE RUN
C-5.8	BASIN 2 - PIPE RUN
C-5.9	BASIN 3 - PIPE RUN
C-5.10	BASIN 4 - PIPE RUN
C-5.11	UTILITY CROSSING
C-6	ACCESS DRIVE PROFILE I
C-6.1	ACCESS DRIVE PROFILE II
C-6.2	ACCESS DRIVE PROFILE III
C-7	CONSTRUCTION DETAILS
C-8	OVERALL EROSION AND SEDIMENTATION CONTROL PLAN
C-8.1	EROSION AND SEDIMENTATION CONTROL PLAN - WEST
C-8.2	EROSION AND SEDIMENTATION CONTROL PLAN - EAST
C-8.3	EROSION AND SEDIMENTATION CONTROL PLAN - SOUTH
C-8.4	EROSION AND SEDIMENTATION CONTROL DETAILS
C-8.5	EROSION AND SEDIMENTATION CONTROL DETAILS
PGS 1-4	ALTA / NSPS LAND TITLE COMPREHENSIVE BOUNDARY SURVEY, DATA ACCUMULATION SURVEY - PREPARED BY BOYER ASSOCIATES AND TIMMONS GROUP

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 MAR 21 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Jennifer D. Hancock

NOT FOR CONSTRUCTION

NO.	REVISION	DATE
7	REVISIONS PER RIDEM COMMENTS	01/28/2019
6	REVISED ARRAY LAYOUT	12/05/2018
5	EROSION CONTROL PLAN REVISIONS	11/13/2018
4	REVISIONS PER OWNER	10/18/2018
3	REVISIONS PER OWNER	10/02/2018
2	REVISIONS PER TOWN COMMENTS	9/04/2018
1	REVISIONS PER OWNER	7/10/2018

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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RECEIVED
Office of Water Resources
MAR 1 2019

Applicant:
TPE RHODE ISLAND SOLAR HOLDINGS2, LLC
999 18th STREET, SUITE 3000
DENVER, CO 80202

TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
TITLE SHEET

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
02/04/19

SCALE:	1" = 500'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000

DRAWING NO.:
C-1

Xrefs: J:\Old\North Smithfield\01_w15b.dwg J:\Old\North Smithfield\03_w5XF.dwg

ZONING CODE COMPLIANCE CHART

SECT/BLOCK/LOT: TOWN OF NORTH SMITHFIELD, PROVIDENCE COUNTY, RHODE ISLAND		
ZONING DISTRICT: RURAL RESIDENTIAL CONSERVATION (RRC) – FORMERLY REA		
USE: GROUND-MOUNTED SOLAR PHOTOVOLTAIC SYSTEMS FOR COMMERCIAL USE (SPECIAL-USE PERMIT REQUIRED)		
LOT AND/OR BULK REQUIREMENTS	REQUIRED	PROPOSED/PROVIDED
LOT AREA	MINIMUM 6 ACRES	104.5 ACRES
LOT FRONTAGE	300 FEET	> 300 FEET
SOLAR ARRAY SETBACKS FRONT YARD REAR YARD SIDE YARD	 100 FEET 100 FEET 100 FEET	 100 FEET 100 FEET 100 FEET
MAXIMUM HEIGHT FEET	 15 FEET	 < 15 FEET

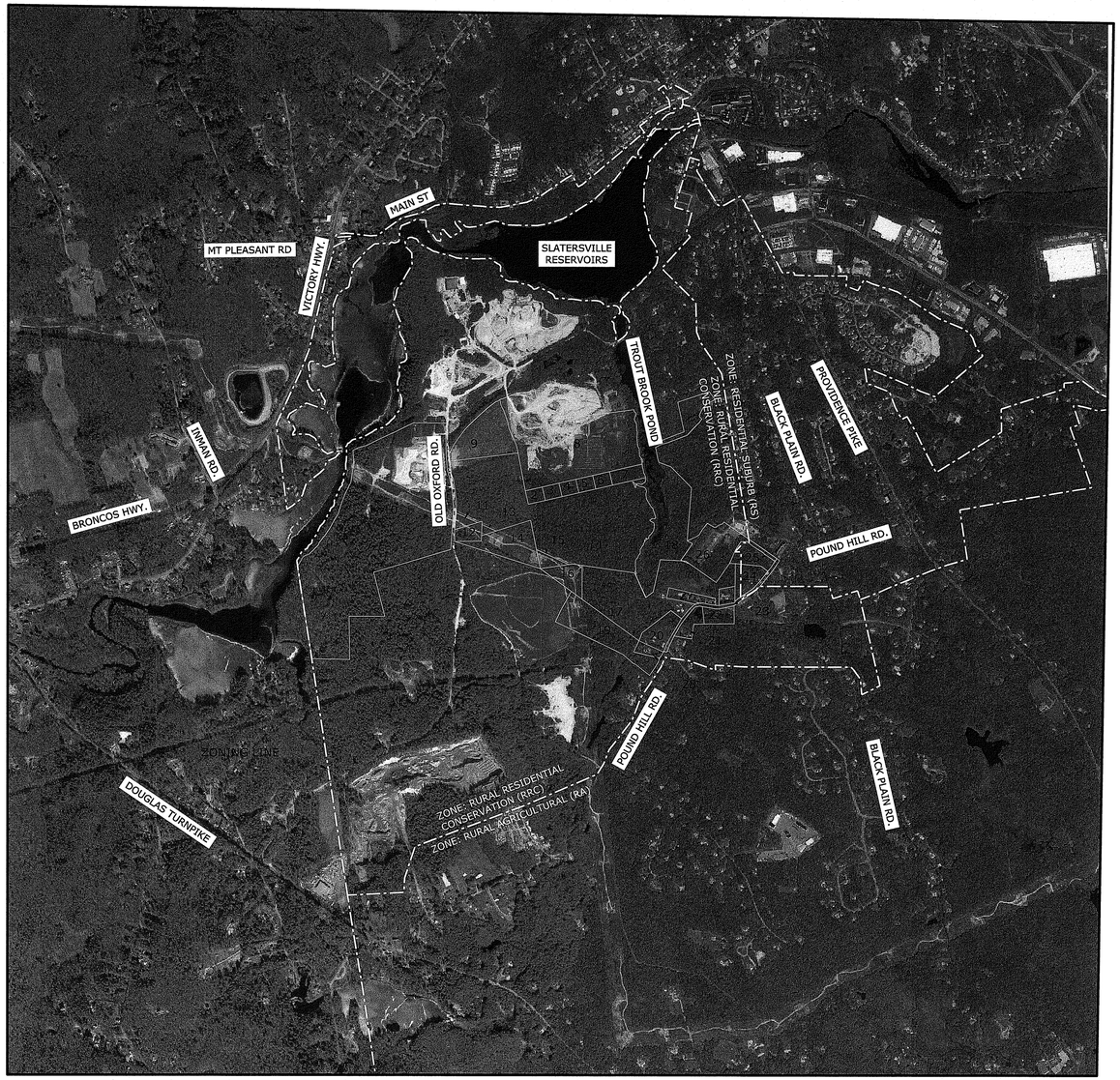
LIST OF ADJACENT PROPERTY OWNERS

PARCEL #	OWNER NAME	PROPERTY ADDRESS	PARCEL ID	BOOK/PAGE	ACREAGE
1	WILLIAM HORTON KING	6201 SE Monticello Terrace Martin, FL 33455	007-012	78/288	64
2	WALLACE & DOROTHY STONE	55 Cidar Mill Road North Smithfield, RI 02896	007-101	241/1155	1.15
3	WALLACE & DOROTHY STONE	55 Cidar Mill Road North Smithfield, RI 02896	007-102	241/1157	1.15
4	WALLACE & DOROTHY STONE	55 Cidar Mill Road North Smithfield, RI 02896	007-103	241/1153	1.15
5	WALLACE & DOROTHY STONE	55 Cidar Mill Road North Smithfield, RI 02896	007-104	241/1152	1.15
6	WALLACE & DOROTHY STONE	55 Cidar Mill Road North Smithfield, RI 02896	007-105	241/1151	1.15
7	WALLACE & DOROTHY STONE	55 Cidar Mill Road North Smithfield, RI 02896	007-014	76/487	1.56
8	MCS ENTERPRISES LLC	9 Kendall Drive Lincoln, RI 02865	004-049	182/1018	65.55
9	MCS ENTERPRISES LLC	9 Kendall Drive Lincoln, RI 02865	004-047	182/1018	13.232
10	TUSPANI WATER COMPANY, INC	C/O Hollston Sand Slatersville, RI 02876	007-064	179/315	88
11	NARRAGANSETT ELEC CO	40 Sylvan Road Waltham, RI 02451	007-085	78/288	0.9
12	NARRAGANSETT ELEC CO	40 Sylvan Road Waltham, RI 02451	007-046	77/215	2
13	NARRAGANSETT ELEC CO	40 Sylvan Road Waltham, RI 02451	007-084	78/288	0.3
14	NARRAGANSETT ELEC CO	40 Sylvan Road Waltham, RI 02451	007-082	18/958	8.55
15	NARRAGANSETT ELEC CO C/O PROPERTIES DEPT	40 Sylvan Road Waltham, RI 02451	007-083	78/188	1.38
16	NARRAGANSETT ELEC CO C/O PROPERTIES DEPT	40 Sylvan Road Waltham, RI 02451	007-081	78/673	3.67
17	ALFRED M CARON	PO Box 869 Slatersville, RI 02876	007-023	573/095	30.03
18	TOWN OF NORTH SMITHFIELD	PO Box 248 Slatersville, RI 02876	004-447	172/716	17.15
19	CHARLES S WILSON	215 Cedar Street Warwick, RI 02818	007-068	175/881	10.41
20	ALFRED M & SANDRA M CARON	1375 Pound Hill Road North Smithfield, RI 01317	007-024	160/629	4.12
21	RICHARD M & PAMELA J COSTELLO	1270 Pound Hill Road North Smithfield, RI 02896	007-155	482/024	2.24
22	EDWARD J & DEBORAH A TE ROBERGE	1256 Pound Hill Road North Smithfield, RI 02896	007-025	189/041	2.75
23	GERAL M & NANCY ANN PERRON	1297 Pound Hill Road North Smithfield, RI 02896	007-053	527/043	1.23
24	SLATER HOMES, LLC	861 A Broad Street Providence, RI 02907	007-065	172/009	0
25	PAUL A & AUDREY L GODIN	1201 Pound Hill Road North Smithfield, RI 02896	007-022	85/1091	3.34
26	U.S. GOVERNMENT	Off Pound Hill Road North Smithfield, RI 02896	007-062	58/187	10.61
27	U.S. GOVERNMENT	861 A Broad Street Providence, RI 02907	007-066	172/09	0
28	ROCHELLE WHITE	1431 Pound Hill Road North Smithfield, RI 02896	007-070	274/250	1.03

GENERAL NOTES:

1. THE FOLLOWING APPROVALS ARE REQUIRED FOR THIS PROJECT:
   - NATIONAL GRID;
   - RHODE ISLAND DEM - ALL APPLICABLE PERMITS;
   - SIGNED PERMANENT EASEMENT BETWEEN THE TOWN AND HOLLISTON SAND COMPANY INC. - TO THE EXTENT OXFORD ROAD IS UTILIZED;
   - SIGNED PERMANENT EASEMENT BETWEEN THE TOWN AND SLATER FARMS, LLC - TO THE EXTENT THAT HOLLISTON'S PRIVATE DRIVEWAY IS UTILIZED TO ROUTE 7 IN BURRILLVILLE;

2. ON OCTOBER 9, 2018, THE ZONING BOARD OF REVIEW (ZBR) OF THE TOWN OF NORTH SMITHFIELD GRANTED RELIEF FROM SECTIONS 5.7.5(C) AND 5.7.5(H) OF THE ZONING ORDINANCE TO CONSTRUCT A 6.22MW AC GROUND MOUNTED SOLAR PHOTOVOLTAIC ENERGY SYSTEM. THIS DECISION IS RECORDED IN THE ZONING BOARD MINUTES BOOK 7 AT PAGE 514.



LOCUS MAP

GRAPHIC SCALE
1000' 500' 0 1000'
SCALE IN FEET
1" = 1000'

N

Kindly be advised that this Permit is not contivalent 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 MAR 21 2019 FILE # 18-0814
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NOT FOR CONSTRUCTION

NO.	REVISION	DATE
7	REVISIONS PER RIDEM COMMENTS	01/28/2019
6	REVISED ARRAY LAYOUT	12/05/2018
5	EROSION CONTROL PLAN REVISIONS	11/13/2018
4	REVISIONS PER OWNER	10/18/2018
3	REVISIONS PER OWNER	10/02/2018
2	REVISIONS PER TOWN COMMENTS	9/04/2018
1	REVISIONS PER OWNER	7/10/2018

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
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Applicant
TPE RHODE ISLAND SOLAR HOLDINGS2, LLC
999 18th STREET, SUITE 3000
DENVER, CO 80202

TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
NOTES & TABLES

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/04/19

SCALE:	1" = 1000'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-1.1

J:\VHB Rhode Island Solar Holdings\North Smithfield - Kby\CAD Files\Layout Sheets\Site Plans\L1 Notes & Tables.dwg 09-27-2018 2:55:54 PM ET Stew
XRefs: ...\Data\North Smithfield01_xrTB.dwg

100' SOLAR ARRAY SETBACK

AP 4 Lot 47 n/f MCS Enterprises LLC

Deed Dist.

N 83°01'56" E 996.87'

Apparent Deed Overlap

N 70°58'05" E 1012.76'

ABS Stone Cairn

East Line of Quiet Title Judgment

FORMERLY: OLD OXFORD RD - CURRENTLY: PRIVATE RD - QUIET TITLE C.A. NO.PC06-1502

APPROX. LOCATION OF EXISTING TREE LINE

APPROX. LOCATION OF EXISTING TRAVELED WAY

AP 4 Lot 49 n/f MCS Enterprises LLC

N 77°01'56" E 1733.44'

250.00'

AP 7 Lot 12

Trout Brook Pond (Open Water)

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

AP 7 Lot 85 n/f Narragansett Electric Company

AP 7 Lot 46 n/f Narragansett Electric Company

AP 7 Lot 84 n/f Narragansett Electric Company

AP 7 Lot 82 n/f Narragansett Electric Company

50' PERIMETER WETLAND

10' PROJECT SETBACK

15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 118 PG 56 SPECIAL EXCEPTION NO. 14 KING TITLE

EXISTING UTILITY POLE

EXISTING GRAVEL ROAD

EXISTING OVERHEAD ELECTRIC LINES

EXISTING OVERHEAD ELECTRIC LINES

AP 7 Lot 83 n/f Narragansett Electric Company

15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 122 PG 244 SPECIAL EXCEPTION NO. 14 CARON TITLE

10' PROJECT SETBACK

200' RIVERBANK WETLAND

EXISTING PROPERTY LINE (TYP.)

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

EXISTING FENCE

AP 7 Lot 81 n/f Narragansett Electric Company

50' PERIMETER WETLAND

EXISTING WETLAND CROSSING

10' PROJECT SETBACK

EXISTING GAS LINE

APPROXIMATE LOCATIONS OF EXISTING CULVERTS

AP 7 Lot 23

AP 7 Lot 68 n/f Charles S. Wilson

100' SOLAR ARRAY SETBACK

THE ANGLES AND DISTANCES FOR THE DASHED LINES ARE APPROXIMATE BASED ON A RECORDED PLAN FOR CARON'S PREDECESSOR

AP 4 Lot 447 n/f Town of North Smithfield

PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE

100' RIVERBANK WETLAND

EXISTING RIVER/STREAM CENTERLINE

AP 7 Lot 62 n/f United States Government

AP 7 Lot 22 n/f Slater Homes, LLC

200' RIVERBANK WETLAND

10' PROJECT SETBACK

AP 7 Lot 66 n/f Slater Homes, LLC

AP 7 Lot 53 n/f Gerald M. & Nancy Ann Perron

TROUT BROOK CENTERLINE

POUND HILL RD PUBLIC RIGHT-OF-WAY 50'

EXISTING UTILITY POLE #118

EXISTING RESIDENCE #1363

EXISTING UTILITY POLE #119

AP 7 Lot 24

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

200' RIVERBANK WETLAND

EXISTING RESIDENCE #1375

AP 7 Lot 70 n/f Rochelle White

GRAPHIC SCALE

150' 75' 0 150'

SCALE IN FEET

1" = 150'

LEGEND

EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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DATED MAR 21 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Jonathan D. Schmaltz

GENERAL NOTES

1. ENVIRONMENTAL FEATURES SHOWN HERON WERE OBTAINED FROM A PRELIMINARY STUDY PERFORMED BY BOYER ASSOCIATES, LLC.
2. PROPERTY BOUNDARIES SHOWN HERON WERE OBTAINED FROM A PLAN ENTITLED "ALTA/NSPS LAND TITLE COMPREHENSIVE BOUNDARY SURVEY DATA ACCUMULATION SURVEY A.P. LOT 12, A.P. LOT 23, A.P. LOT 24, A.P. LOT 46, A.P. LOT 53, A.P. LOT 66, A.P. LOT 81, A.P. LOT 82, A.P. LOT 83, A.P. LOT 84, A.P. LOT 85 CONTAINING 104 ± ACRES, NORTH SMITHFIELD, RHODE ISLAND" PREPARED BY TIMMONS GROUP, LATEST REVISION 02/19/18.
3. PROJECT SETBACKS SHOWN HEREON ARE 10' GREATER THAN WETLAND JURISDICTIONAL EXTENTS. EXCEPT WHERE NECESSARY, THE PROPOSED LIMIT OF DISTURBANCE DOES NOT ENCROACH ON THESE PROJECT SETBACKS.

NOT FOR CONSTRUCTION

NO.	REVISION	DATE
7	REVISIONS PER RIDEM COMMENTS	01/28/2019
6	REVISED ARRAY LAYOUT	12/05/2018
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2	REVISIONS PER TOWN COMMENTS	9/04/2018
1	REVISIONS PER OWNER	7/10/2018

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
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tel 401-943-1000 fax 401-464-6006
www.dipreteeng.com

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Applicant

TPE RHODE ISLAND SOLAR HOLDINGS2, LLC
999 18th STREET, SUITE 3000
DENVER, CO 80202

TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

EXISTING CONDITIONS

SCALE:	1" = 150'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-2

100' SOLAR ARRAY SETBACK

APPROX. LOCATION OF EXISTING TREE LINE

APPROX. LOCATION OF EXISTING TRAVELED WAY

FORMERLY: OLD OXFORD RD
CURRENTLY: PRIVATE RD -
QUIET TITLE C.A. NO.PC06-1502

EXISTING UTILITY POLE

EXISTING GRAVEL ROAD

EXISTING OVERHEAD ELECTRIC LINES

EXISTING OVERHEAD ELECTRIC LINES

15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 118 PG 56 SPECIAL EXCEPTION NO. 14 KING TITLE

EXISTING FENCE

EXISTING GAS LINE

15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 122 PG 244 SPECIAL EXCEPTION NO. 14 CARON TITLE

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

EXISTING WETLAND CROSSING

200' RIVERBANK WETLAND

10' PROJECT BUFFER

PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE

100' RIVERBANK WETLAND SETBACK

EXISTING RIVER/STREAM CENTERLINE

EXISTING WETLAND

100' RIVERBANK WETLAND SETBACK

200' RIVERBANK WETLAND

10' PROJECT BUFFER

335.00'

225.00'
S 79°36'34" W

"POUND HILL RD
PUBLIC RIGHT-OF-WAY 50'"
S 61°17'26" E 38.00'
N 89°57'26" E 74.90'

EXISTING UTILITY POLE #118

EXISTING RESIDENCE #1363

EXISTING UTILITY POLE #119

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

200' RIVERBANK WETLAND

EXISTING RESIDENCE #1375

100' SOLAR ARRAY SETBACK

THE ANGLES AND DISTANCES FOR THE DASHED LINES ARE APPROXIMATE BASED ON A RECORDED PLAN FOR CARON'S PREDECESSOR

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 MAR 21 2019 FILE # 18-0319
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Venezia

GRAPHIC SCALE
150' 75' 0 150'
SCALE IN FEET
1" = 150'

N

LEGEND

EXISTING FEATURES

- EDGE OF PAVED BITUMINOUS SURFACE
- EDGE OF GRAVEL OR CRUSHED STONE SURFACE
- EDGE OF ROADWAY SHOULDER
- PROPERTY BOUNDARY LINE
- IRON PIN OR PIPE
- CONCRETE MONUMENT
- ADJOINING PROPERTY BOUNDARY LINE
- EASEMENT LINE
- MINIMUM BUILDING SETBACK LINE
- ZONING DISTRICT BOUNDARY LINE
- EDGE OF EXISTING SURFACE WATERCOURSE
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- SPOT ELEVATION
- BUILDING
- OE OVERHEAD ELECTRIC LINES
- UTILITY POLE
- GUY WIRE
- DRAINAGE PIPE
- DRAINAGE INLET
- TREELINE
- WALL
- WETLAND
- FENCE
- SIGN
- MW MONITORING WELL
- 15% - 100% SLOPES

SURVEY NOTES

1. ENVIRONMENTAL FEATURES SHOWN HERON WERE OBTAINED FROM A PRELIMINARY STUDY PERFORMED BY BOYER ASSOCIATES, LLC.
2. PROPERTY BOUNDARIES SHOWN HERON WERE OBTAINED FROM A PLAN ENTITLED "ALTA/NSPS LAND TITLE COMPREHENSIVE BOUNDARY SURVEY DATA ACCUMULATION SURVEY A.P. LOT 12, A.P. LOT 23, A.P. LOT 24, A.P. LOT 46, A.P. LOT 53, A.P. LOT 66, A.P. LOT 81, A.P. LOT 82, A.P. LOT 83, A.P. LOT 84, A.P. LOT 85 CONTAINING 104 ± ACRES, NORTH SMITHFIELD, RHODE ISLAND" PREPARED BY TIMMONS GROUP, LATEST REVISION 02/19/18.
3. ENVIRONMENTAL SETBACKS SHOWN HEREIN ARE 10' GREATER THAN STATE REQUIREMENTS.

NOT FOR CONSTRUCTION

NO.	REVISION	DATE
7	REVISIONS PER RIDEM COMMENTS	01/28/2019
6	REVISED ARRAY LAYOUT	12/05/2018
5	EROSION CONTROL PLAN REVISIONS	11/13/2018
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3	REVISIONS PER OWNER	10/02/2018
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1	REVISIONS PER OWNER	7/10/2018

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
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NORTH SMITHFIELD, RI 02896

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www.diprete-eng.com

Applicant

TPE RHODE ISLAND SOLAR HOLDINGS2, LLC
999 18th STREET, SUITE 3000
DENVER, CO 80202

TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

EXISTING SLOPE MAP

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 150'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-2.1

L:\RI\ Rhode Island Solar Holdings\North Smithfield - Key\CAD Files\Arcgis\mxd Sheets\Site Plans\21 Existing Slope Map.dwg, 03-27-2019 8:58:48 PM, EPlew

Xrefs: ..\..\North Smithfield\01_xrTB.dwg ..\..\North Smithfield\02_xrDP.dwg

100' SOLAR ARRAY SETBACK

100' SOLAR ARRAY SETBACK

APPROX. LOCATION OF EXISTING TRAVELED WAY

20' CLEARING

FORMERLY: OLD OXFORD RD
CURRENTLY: PRIVATE RD -
QUIET TITLE C.A. NO.PC06-1502

EXISTING VEGETATION BUFFER (25' MIN WHERE POSSIBLE, TO REMAIN IN PLACE)

PROPOSED TREE LINE

15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 118 PG 56 SPECIAL EXCEPTION NO. 14 KING TITLE

EXISTING UTILITY POLE

EXISTING GRAVEL ROAD

EXISTING OVERHEAD ELECTRIC LINES

EXISTING OVERHEAD ELECTRIC LINES

EXISTING FENCE

EXISTING GAS LINE

15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 122 PG 244 SPECIAL EXCEPTION NO. 14 CARON TITLE

TROUT BROOK POND

ZONE "A"

PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

EXISTING WETLAND CROSSING

200' RIVERBANK WETLAND

10' PROJECT BUFFER

100' SOLAR ARRAY SETBACK

THE ANGLES AND DISTANCES FOR THE DASHED LINES ARE APPROXIMATE BASED ON A RECORDED PLAN FOR CARON'S PREDECESSOR

TROUT BROOK CENTERLINE

EXISTING RESIDENCE #1375

100' RIVERBANK WETLAND SETBACK

EXISTING RIVER/STREAM CENTERLINE

EXISTING WETLAND

200' RIVERBANK WETLAND

10' PROJECT BUFFER

225.00'

N 72°23'50" W

S 79°38'34" W

POUND HILL RD
PUBLIC RIGHT-OF-WAY 50'

S 61°17'58" W
38.00'

N 85°37'09" W
74.80'

EXISTING UTILITY POLE #118

EXISTING RESIDENCE #1363

EXISTING UTILITY POLE #119

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

GRAPHIC SCALE
150' 75' 0 150'
SCALE IN FEET
1" = 150'

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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 MAR 21 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Agustin D. Enriquez

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE

LEGEND — DEMOLITION

- TBD — DENOTES A FEATURE TO BE DEMOLISHED
- TBR — DENOTES A FEATURE TO BE REMOVED AND RELOCATED
- EX. VEGETATION BUFFER
- EX. TREE REMOVAL

DEMOLITION NOTE

1. ALL FEATURES IN BOLD PRINT AND SO LABELED SHALL BE DEMOLISHED, REMOVED, OR RELOCATED AS INDICATED.

NOTE:
PROPOSED TREE LINE SHOWN FOR GRAPHICAL CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINES SHOWN ON THE PLANS.

NOT FOR CONSTRUCTION

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7	REVISIONS PER RIDEM COMMENTS	01/28/2019
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DENVER, CO 80202

TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

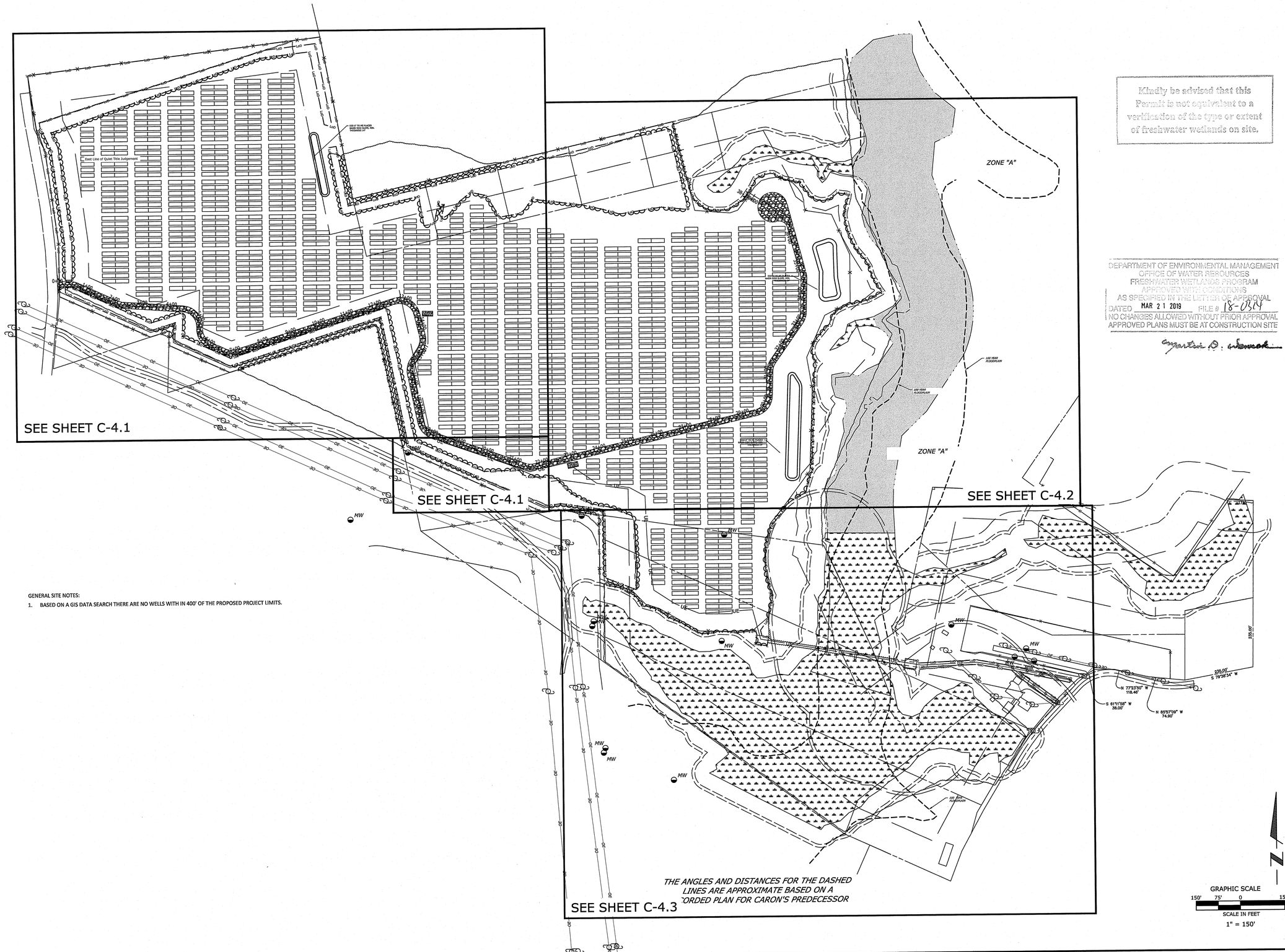
DRAWING TITLE:
DEMOLITION PLAN

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/04/19

SCALE:	1" = 150'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-3

I:\TPE Rhode Island Solar Holdings\North Smithfield — Wa\CAD Files\ Arlington, Tx office\CAD\ 288700\Plot Sheets\Site Plans\3 Demolition Plan.dwg 02-27-2019 3:56:09 PM BR Blue

XRefs: ..\..\Work\North Smithfield\-03_xrESP.dwg ..\..\Work\North Smithfield-01_xrTB.dwg ..\..\Work\North Smithfield-04_xrSITE.dwg



GENERAL SITE NOTES:

1. BASED ON A GIS DATA SEARCH THERE ARE NO WELLS WITH IN 400' OF THE PROPOSED PROJECT LIMITS.

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 MAR 21 2019 FILE # 18-0824
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Jonathan O. Schmock

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD

NOTE:
PROPOSED TREE LINE SHOWN FOR CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINE.

NOT FOR CONSTRUCTION

NO.	REVISION	DATE
7	REVISIONS PER RIDEM COMMENTS	01/28/2019
6	REVISED ARRAY LAYOUT	12/05/2018
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Property Owners:

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MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
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Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

OVERALL SITE PLAN

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
02/04/19

SCALE:	1" = 150'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-4

a:\TPE Rhode Island Solar Holdings\North Smithfield - King\Civil Plan Affidavit, Tx xRefs\Civil 3D\TPE\Plot Sheets\Site Plan\A +43 Site Plan.dwg 02-27-2019 2:56:36 PM By: Shea
Xrefs: 1.\Xrefs\North Smithfield01_wTPE.dwg 1.\Xrefs\North Smithfield04_wSITE.dwg 1.\Xrefs\North Smithfield03_wSW.dwg 1.\Xrefs\North Smithfield02_wGRADE.dwg

PROPOSED FENCE

PROPOSED SOLAR ARRAYS

EXISTING VEGETATIVE BUFFER

PROPOSED TREE LINE

100' SOLAR ARRAY SETBACK

PROPOSED DETENTION BASIN #3 (SEE SHEET C-5.6, FOR DETAIL)

D50 6" TO ME PLACED BASIN SIDE SLOPE. MIN. THICKNESS 14"

MCS ENTERPRISES LLC
PARCEL ID: 004-049

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 MAR 21 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

25' EX. VEGETATION BUFFER (25' MIN WHERE POSSIBLE)

20' CLEARING

WALLACE & DOROTHY STONE
PARCEL ID: 007-103

WALLACE & DOROTHY STONE
PARCEL ID: 007-102

EXISTING VEGETATIVE BUFFER

WALLACE & DOROTHY STONE
PARCEL ID: 007-101

WILLIAM HORTON KING
PARCEL ID: 007-012

FORMERLY: OLD OXFORD RD
CURRENTLY: PRIVATE RD
QUIET TITLE C.A. NO.: PC06-1502

R25

R60

GATE SEE DETAIL SHEET SHEET C-7

PROPOSED ACCESS ROAD (SEE DETAIL SHEET C-7)

CONSTRUCTION ENTRANCE TO BE USED FOR INGRESS & EGRESS OF CONSTRUCTION VEHICLES

NARRAGANSETT ELEC CO
PARCEL ID: 007-085

NARRAGANSETT ELEC CO
PARCEL ID: 007-046

MATCHLINE (THIS SHEET)

PROPOSED ACCESS ROAD

PROPOSED FENCE

PROPOSED TREE LINE

PROPOSED UNDERGROUND ELECTRIC

EXISTING GAS LINE

MW

MATCHLINE (SEE SHEET C-4.2)

PROPOSED TREE LINE

NARRAGANSETT ELEC CO
PARCEL ID: 007-082

TRUCK ROUTE FOR CONSTRUCTION DELIVERIES

NARRAGANSETT ELEC. CO.
PARCEL ID: 007-084

PROPOSED INVERTER PAD

PROPOSED UNDERGROUND ELECTRIC

GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

MATCHLINE (THIS SHEET)

MATCHLINE (SEE SHEET C-4.2)

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD

NOTE:
PROPOSED TREE LINE SHOWN FOR CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINE.

NOT FOR CONSTRUCTION

NO.	REVISION	DATE
7	REVISIONS PER RIDEM COMMENTS	01/28/2019
6	REVISED ARRAY LAYOUT	12/05/2018
5	EROSION CONTROL PLAN REVISIONS	11/13/2018
4	REVISIONS PER OWNER	10/18/2018
3	REVISIONS PER OWNER	10/02/2018
2	REVISIONS PER TOWN COMMENTS	9/04/2018
1	REVISIONS PER OWNER	7/10/2018

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

TRC Engineers, Inc.
4900 Ritter Road
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www.trcsolutions.com

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DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006
www.diprete-eng.com

Applicant
TPE RHODE ISLAND SOLAR HOLDINGS2, LLC
999 18th STREET, SUITE 3000
DENVER, CO 80202

TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
SITE PLAN - WEST

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
02/04/19

SCALE:	1" = 60'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-4.1

J:\TPE Rhode Island Solar Holdings\North Smithfield – Roy\GIS Files Arlington, Va. office\GIS 2007\PDM Docs\Site Plan\4 - 4.2 Site Plan.mxd 02-27-2019 3:26:46 PM EST -05w
XRefs: J:\Work\North Smithfield\01_xrTB.dwg, J:\Work\North Smithfield\04_xrSITE.dwg, J:\Work\North Smithfield\05_xrESP.dwg, J:\Work\North Smithfield\06_xrGRADE.dwg

MCS ENTERPRISES LLC
PARCEL ID: 004-049

PROPOSED FENCE

50' PERIMETER WETLAND

10' PROJECT BUFFER

60'

WALLACE & DOROTHY STONE
PARCEL ID: 007-014

100' SOLAR ARRAY SETBACK

WALLACE & DOROTHY STONE
PARCEL ID: 007-105

EXISTING VEGETATIVE BUFFER

PROPOSED TREE LINE

WALLACE & DOROTHY STONE
PARCEL ID: 007-104

WALLACE & DOROTHY STONE
PARCEL ID: 007-103

Trout Brook Pond
(Open Water)

ZONE "A"

R30

PROPOSED TREE LINE

PROPOSED FENCE

PROPOSED 100' DIA. CUL-DE-SAC TURN AROUND

PROPOSED SOLAR ARRAYS

D50 6" TO BE PLACED BASIN SIDE SLOPE, MIN. THICKNESS 14"

R60

PROPOSED DETENTION BASIN #1 (SEE SHEET C-5.4, FOR DETAIL)

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 MAR 21 2019 FILE # 18-0314
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Martin D. Wenrick

R60

60'

10' PROJECT BUFFER

50' PERIMETER WETLAND

PROPOSED ACCESS ROAD

R60

100 YEAR FLOODPLAIN

WILLIAM HORTON KING
PARCEL ID: 007-012

R60

PROPOSED DETENTION BASIN #2 (SEE SHEET C-5.5, FOR DETAIL)

D50 6" TO BE PLACED BASIN SIDE SLOPE, MIN. THICKNESS 14"

100 YEAR FLOODPLAIN

PROPOSED INVERTER PAD

PROPOSED UNDERGROUND ELECTRIC

PROPOSED TREE LINE

EXISTING VEGETATIVE BUFFER

100' SOLAR ARRAY SETBACK

10' PROJECT BUFFER

200' RIVERBANK WETLAND

TOWN OF NORTH SMITHFIELD
PARCEL ID: 004-447

PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE

ZO

N

GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

MATCHLINE (SEE SHEET C-4.1)

MATCHLINE (SEE SHEET C-4.3)

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD

NOTE:
PROPOSED TREE LINE SHOWN FOR CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINE.

NOT FOR CONSTRUCTION

NO.	REVISION	DATE
7	REVISIONS PER RIDEM COMMENTS	01/28/2019
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1	REVISIONS PER OWNER	7/10/2018

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
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© TRC Engineers, Inc.

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www.dipreteeng.com

Applicant

TPE RHODE ISLAND SOLAR HOLDINGS2, LLC
999 18th STREET, SUITE 3000
DENVER, CO 80202

TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

SITE PLAN - EAST

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
02/04/19

SCALE:	1" = 60'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-4.2

Xrefs: ...\Workfiles\North Smithfield\41_xrTB.dwg ...\Workfiles\North Smithfield\4A_xrSITE.dwg ...\Workfiles\North Smithfield\43_xrDSF.dwg ...\Workfiles\North Smithfield\5_xrGRADE.dwg

MATCHLINE (SEE SHEET C-4.2)

EXISTING GAS LINE

EXISTING VEGETATIVE BUFFER

100' SOLAR ARRAY SETBACK

WILLIAM HORTON KING PARCEL ID: 007-012

PROPOSED FENCE

PROPOSED UNDERGROUND ELECTRIC

15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 122 PG 244 SPECIAL EXCEPTION NO. 14 CARON TITLE

10' PROJECT BUFFER

50' PERIMETER WETLAND

ALFRED M CARON PARCEL ID: 007-023

100' SOLAR ARRAY SETBACK

PROPOSED TREE LINE

100' SOLAR ARRAY SETBACK

PROPOSED RECEIVING PIT

PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

EXISTING WETLAND CROSSING

200' RIVERBANK WETLAND

10' PROJECT BUFFER

PROPOSED UNDERGROUND ELECTRIC (BORE UNDER WETLAND AT EXISTING CROSSING)

100' RIVERBANK WETLAND

EXISTING RIVER/STREAM CENTERLINE

100' RIVERBANK WETLAND

100' SOLAR ARRAY SETBACK

200' RIVERBANK WETLAND

10' PROJECT BUFFER

POLE FOR CUSTOMER RECLOSER

50' PERIMETER WETLAND

10' PROJECT BUFFER

POCC CUSTOMER OWNED MANUAL GENERATOR DISCONNECTING MEANS (GANG OPERATED, UTILITY LOCKABLE, 24X7 ACCESSIBLE, GROUNDABLE)

U.S. GOVERNMENT PARCEL ID: 007-066

PROPOSED BORING PIT

POLE FOR UTILITY METER ACCESSIBLE 24X7

POLE FOR UTILITY RECLOSER ACCESSIBLE 24X7

POLE FOR UTILITY DISCONNECT SWITCH ACCESSIBLE 24X7 LOCKABLE

POINT OF INTERCONNECTION

POUND HILL RD PUBLIC RIGHT-OF-WAY 50'

EXISTING RESIDENCE #1363

EXISTING OVERHEAD ELECTRIC

EXISTING WETLAND

EXISTING OVERHEAD ELECTRIC

TROUT BROOK CENTERLINE

100 YEAR FLOODPLAIN

200' RIVERBANK WETLAND

10' PROJECT BUFFER

FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

CHARLES S WILSON PARCEL ID: 007-068

ALFRED M & SANDRA M CARON PARCEL ID: 007-024

RICHARD M & PAMELA J COSTELLO PARCEL ID: 007-155

ROCHELLE WHITE PARCEL ID: 007-070

EXISTING RESIDENCE #1375

THE ANGLES AND DISTANCES FOR THE DASHED LINES ARE APPROXIMATE BASED ON A RECORDED PLAN FOR CARON'S PREDECESSOR

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 MAR 21 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD

NOTE:
PROPOSED TREE LINE SHOWN FOR CLARITY, TREE CLEARING WILL NOT EXCEED LIMITS OF DISTURBANCE (LOD) LINE.

NOT FOR CONSTRUCTION

NO.	REVISION	DATE
7	REVISIONS PER RIDEM COMMENTS	01/28/2019
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1	REVISIONS PER OWNER	7/10/2018

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

TRC Engineers, Inc.
4900 Ritter Road
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www.trcsolutions.com

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DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-9006
www.dipreteeng.com

Applicant

TPE RHODE ISLAND SOLAR HOLDINGS2, LLC
999 18th STREET, SUITE 3000
DENVER, CO 80202

TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

SITE PLAN - SOUTH

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
03/04/19

SCALE:	1" = 60'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000

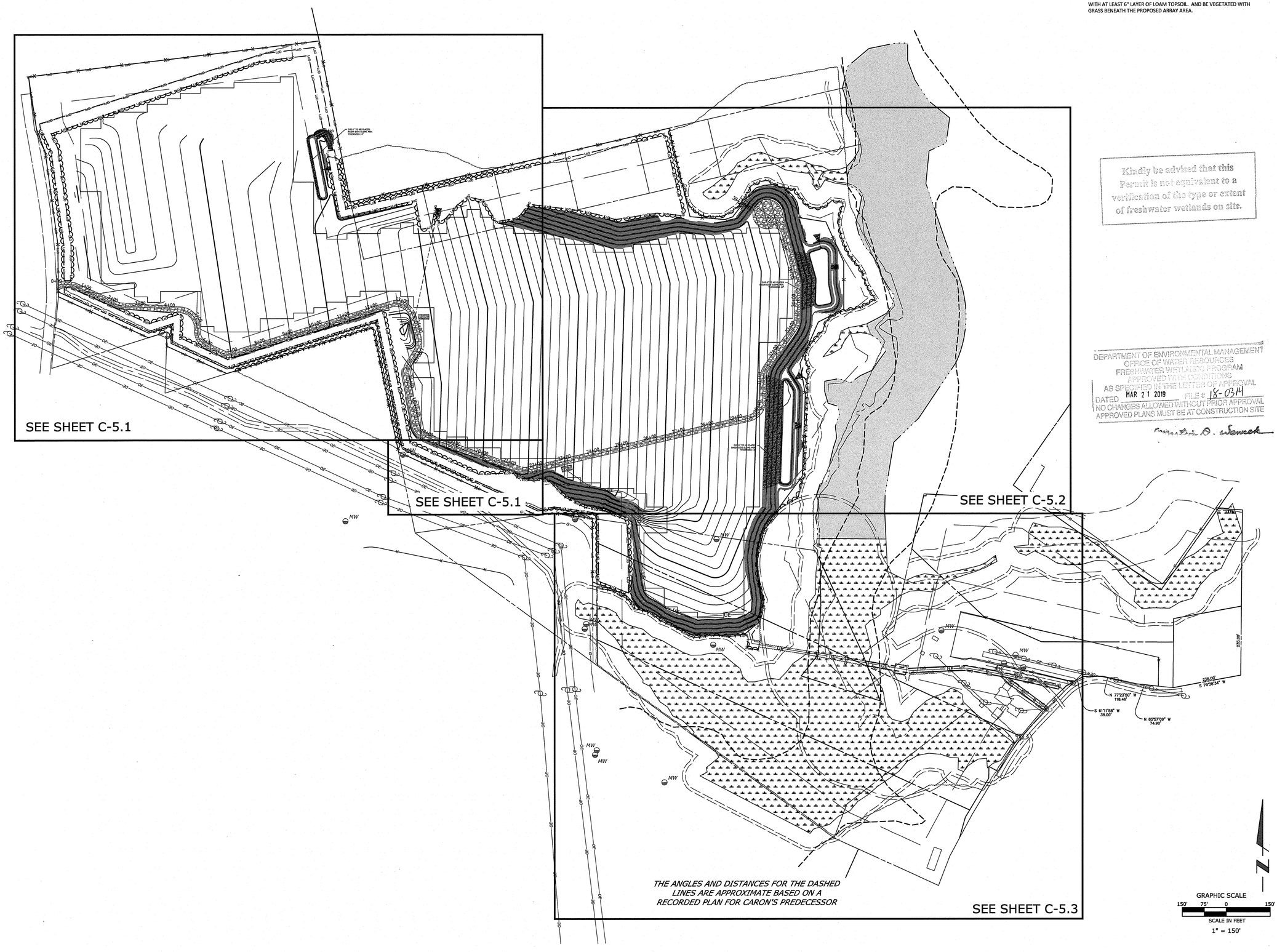
DRAWING NO.:

C-4.3

I:\TPE Rhode Island Solar Holdings\Work Submittal - PhysCAD Tree Mitigation, Tx, eMaxCAD 1000\PhysCAD Sheets\Site Plans\C-4.3 Site Plan.dwg 03-22-2019 2:57:10 PM EDT JBlew

NOTE:

ARRAY POSTS WILL BE DRIVEN POSTS OR SCREW PILES, THERE WILL BE NO CONCRETE BALLAST BLOCKS. ARRAYS WILL BE ELEVATED ABOVE GRADE WITH AT LEAST 6' LAYER OF LOAM TOPSOIL. AND BE VEGETATED WITH GRASS BENEATH THE PROPOSED ARRAY AREA.



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 MAR 21 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Christine O. Womack

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD

LEGEND — PROPOSED GRADING FEATURES

- 421 — INTERMEDIATE CONTOUR LINES
- 420 — INDEX CONTOUR LINES
- 2.00% — SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NOTE:

AREAS AROUND THE SOLAR ARRAYS WILL BE STABILIZED WITH A LOW-HEIGHT, POLLINATOR-FRIENDLY SEED MIX. THE PLANTS INCLUDED IN THE POLLINATOR SEED MIX, WHICH IS INTENDED TO PROVIDE FOOD AND SHELTER FOR WILDLIFE AND WILL ATTRACT A VARIETY OF POLLINATORS AND SONGBIRDS. THE WILDFLOWERS AND GRASSES IN THE SELECTED MIX WILL PROVIDE AN ATTRACTIVE DISPLAY OF COLOR FROM SPRING TO FALL AND WILL PROVIDE NECTAR AND FOOD FOR POLLINATORS AND THEIR LARVA.

NOT FOR CONSTRUCTION

NO.	REVISION	DATE
7	REVISIONS PER RIDEM COMMENTS	01/28/2019
6	REVISED ARRAY LAYOUT	12/05/2018
5	EROSION CONTROL PLAN REVISIONS	11/13/2018
4	REVISIONS PER OWNER	10/18/2018
3	REVISIONS PER OWNER	10/02/2018
2	REVISIONS PER TOWN COMMENTS	9/04/2018
1	REVISIONS PER OWNER	7/10/2018

Property Owners:

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6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
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Applicant

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999 18th STREET, SUITE 3000
DENVER, CO 80202

TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

OVERALL GRADING PLAN

GRAPHIC SCALE
150' 75' 0 150'
SCALE IN FEET
1" = 150'

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
02/04/19

SCALE:	1" = 150'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-5

I:\TPE Rhode Island Solar Holdings\North Smithfield - Kite\CAD Files\ Arlington, TX office\CAD\ 288700\Plot Sheets\Site Plans\5 - 1.5 Grading Plan.dwg 02-27-2019 8:25:47 PM By: Shaw
Xrefs: ..\..\Work\North Smithfield\01_xrTB.dwg ..\..\Work\North Smithfield\04_xrEXTE.dwg ..\..\Work\North Smithfield\03_xrESP.dwg ..\..\Work\North Smithfield\02_xrSHADE.dwg

PROPOSED FENCE

PROPOSED SOLAR ARRAY AREA

PROPOSED TREE LINE

EXISTING VEGETATIVE BUFFER

PROPOSED DETENTION BASIN #3 (SEE SHEET C-5.6, FOR DETAIL)

EMERGENCY SPILLWAY WITH ROCK RIP-RAP
D50 6" TO ME PLACED BASIN SIDE SLOPE. MIN. THICKNESS 14"

HW-3.1

15 LF - 6" HDPE PIPE

EW-3.2

NOTE:

ARRAY POSTS WILL BE DRIVEN POSTS OR SCREW PILES, THERE WILL BE NO CONCRETE BALLAST BLOCKS. ARRAYS WILL BE ELEVATED ABOVE GRADE WITH AT LEAST 6" LAYER OF LOAM TOPSOIL. AND BE VEGETATED WITH GRASS BENEATH THE PROPOSED ARRAY AREA.

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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DATED MAR 2 1 2019 FILE # 18-0314
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Kristin D. Uhlmann

EXISTING VEGETATIVE BUFFER

PROPOSED ACCESS ROAD

PROPOSED SOLAR ARRAY AREA

PROPOSED INVERTER PAD

PROPOSED TREE LINE

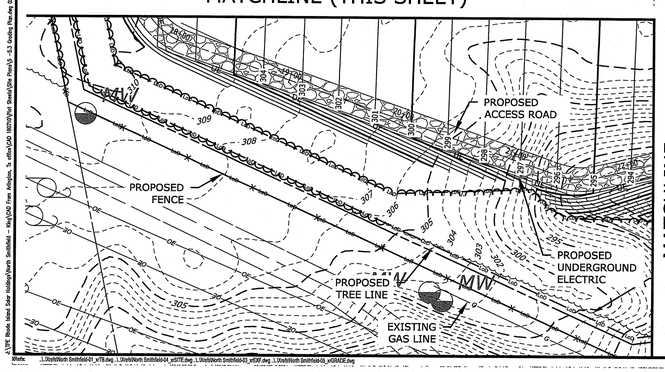
PROPOSED INFILTRATION TRENCH (SEE DETAIL, SHEET C-7)

BASIN 4

PROPOSED UNDERGROUND ELECTRIC

MATCHLINE (SEE SHEET C-5.2)

MATCHLINE (THIS SHEET)



MATCHLINE (SEE SHEET C-4.2)

MATCHLINE (THIS SHEET)

GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

FORMERLY: OLD OXFORD RD - PRIVATE RD - CURRENT: PRIVATE RD - QUIET TITLE C.A. NO.PC06-1502

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NOTE:

~~DESIGNATED AREAS AROUND THE SOLAR ARRAYS WILL BE STABILIZED WITH A LOW-HEIGHT, POLLINATOR-FRIENDLY SEED MIX. THE PLANTS INCLUDED IN THE POLLINATOR SEED MIX, WHICH IS INTENDED TO PROVIDE FOOD AND SHELTER FOR WILDLIFE AND WILL ATTRACT A VARIETY OF POLLINATORS AND SONGBIRDS. THE WILDFLOWERS AND GRASSES IN THE SELECTED MIX WILL PROVIDE AN ATTRACTIVE DISPLAY OF COLOR FROM SPRING TO FALL AND WILL PROVIDE NECTAR AND FOOD FOR POLLINATORS AND THEIR LARVA.~~

NOT FOR CONSTRUCTION

NO.	REVISION	DATE
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3	REVISIONS PER OWNER	10/02/2018
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1	REVISIONS PER OWNER	7/10/2018

Property Owners:

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6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

TRC Engineers, Inc.
4900 Ritter Road
Suite 240
Mechanicsburg, PA 17055
Tel: (717) 671-6430
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DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-8006
www.diprete-eng.com

Applicant:

TPE RHODE ISLAND SOLAR HOLDINGS2, LLC
999 18th STREET, SUITE 3000
DENVER, CO 80202

TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

GRADING PLAN - WEST

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
02/04/19

SCALE:	1" = 60'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-5.1

I:\DWG\North Smithfield\01_xrf\5.dwg I:\DWG\North Smithfield\04_xrf\FE.dwg I:\DWG\North Smithfield\03_xrf\SW.dwg I:\DWG\North Smithfield\06_xrf\GRADE.dwg

PROPOSED FENCE

100' SOLAR ARRAY SETBACK

50' PERIMETER WETLAND

10' PROJECT BUFFER

EXISTING VEGETATIVE BUFFER

PROPOSED TREE LINE

PROPOSED FENCE

PROPOSED SOLAR ARRAY AREA

PROPOSED TREE LINE

PROPOSED 100' DIA. CUL-DE-SAC TURN AROUND

Trout Brook Pond (Open Water)

EW-1.2

27' LF - 6" HDPE PIPE

HW-1.1

EMERGENCY SPILLWAY WITH ROCK RIP-RAP

PROPOSED DETENTION BASIN #1 (SEE SHEET C-5.4, FOR DETAIL)

D50 6" TO BE PLACED BASIN SIDE SLOPE. MIN. THICKNESS 14"

MATCHLINE (SEE SHEET C-5.1)

PROPOSED INFILTRATION TRENCH (SEE DETAIL, SHEET C-7)

PROPOSED INVERTER PAD

PROPOSED UNDERGROUND ELECTRIC

PROPOSED TREE LINE

EXISTING VEGETATIVE BUFFER

PROPOSED ACCESS ROAD

D50 6" TO BE PLACED BASIN SIDE SLOPE. MIN. THICKNESS 14"

10' PROJECT BUFFER

50' PERIMETER WETLAND

EW-2.2

26 LF - 12" HDPE PIPE

HW-2.1

EMERGENCY SPILLWAY WITH ROCK RIP-RAP

PROPOSED DETENTION BASIN #2 (SEE SHEET C-5.5, FOR DETAIL)

MATCHLINE (SEE SHEET C-5.3)

PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE

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

NOTE:

ARRAY POSTS WILL BE DRIVEN POSTS OR SCREW PILES, THERE WILL BE NO CONCRETE BALLAST BLOCKS. ARRAYS WILL BE ELEVATED ABOVE GRADE WITH AT LEAST 6" LAYER OF LOAM TOPSOIL. AND BE VEGETATED WITH GRASS BENEATH THE PROPOSED ARRAY AREA.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 21 2019 FILE # 18-03M
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

N

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD

LEGEND — PROPOSED GRADING FEATURES

- 421 — INTERMEDIATE CONTOUR LINES
- 420 — INDEX CONTOUR LINES
- 2.00% — SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NOTE:

AREAS AROUND THE SOLAR ARRAYS WILL BE STABILIZED WITH A LOW-HEIGHT, POLLINATOR-FRIENDLY SEED MIX. THE PLANTS INCLUDED IN THE POLLINATOR SEED MIX, WHICH IS INTENDED TO PROVIDE FOOD AND SHELTER FOR WILDLIFE AND WILL ATTRACT A VARIETY OF POLLINATORS AND SONGBIRDS. THE WILDFLOWERS AND GRASSES IN THE SELECTED MIX WILL PROVIDE AN ATTRACTIVE DISPLAY OF COLOR FROM SPRING TO FALL AND WILL PROVIDE NECTAR AND FOOD FOR POLLINATORS AND THEIR LARVA.

NOT FOR CONSTRUCTION

NO.	REVISION	DATE
7	REVISIONS PER RIDEM COMMENTS	01/28/2019
6	REVISED ARRAY LAYOUT	12/05/2018
5	EROSION CONTROL PLAN REVISIONS	11/13/2018
4	REVISIONS PER OWNER	10/18/2018
3	REVISIONS PER OWNER	10/02/2018
2	REVISIONS PER TOWN COMMENTS	9/04/2018
1	REVISIONS PER OWNER	7/10/2018

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
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Applicant

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999 18th STREET, SUITE 3000
DENVER, CO 80202

TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

GRADING PLAN - EAST

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 60'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-5.2

02/04/19

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MATCHLINE (SEE SHEET C-5.2)

EXISTING VEGETATIVE BUFFER
EXISTING GAS LINE
15' TENNESSEE GAS RIGHT-OF-WAY EASEMENT LE BK 122 PG 244 SPECIAL EXCEPTION NO. 14 CARON TITLE
PROPOSED FENCE
100' SOLAR ARRAY SETBACK
PROPOSED UNDERGROUND ELECTRIC
PROPOSED SOLAR ARRAY AREA
PROPOSED TREE LINE
PROPOSED RECEIVING PIT
10' PROJECT BUFFER
50' PERIMETER WETLAND
200' RIVERBANK WETLAND
EXISTING WETLAND
EXISTING WETLAND CROSSING
PERPETUAL SAFETY EASEMENT HALE TO U.S.A. LE BK 58 PG 170-172 SPECIAL EXCEPTION NO. 13 CARON TITLE
FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE
EXISTING 100' RIVERBANK WETLAND
EXISTING RIVER/STREAM CENTERLINE
EXISTING 100' RIVERBANK WETLAND
100' SOLAR ARRAY SETBACK
50' PERIMETER WETLAND
10' PROJECT BUFFER
200' RIVERBANK WETLAND
10' PROJECT BUFFER
PROPOSED BORING PIT
POUND HILL RD PUBLIC RIGHT-OF-WAY 50'
TROUT BROOK CENTERLINE
EXISTING RESIDENCE #1363
EXISTING RESIDENCE #1375
200' RIVERBANK WETLAND
FLOWAGE EASEMENT LE BK 12 PG 193 SPECIAL EXCEPTION NO. 12 CARON TITLE

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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 MAR 21 2019 FILE # 18-0814
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NOTE:
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GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NOTE:
AREAS AROUND THE SOLAR ARRAYS WILL BE STABILIZED WITH A LOW-HEIGHT, POLLINATOR-FRIENDLY SEED MIX. THE PLANTS INCLUDED IN THE POLLINATOR SEED MIX, WHICH IS INTENDED TO PROVIDE FOOD AND SHELTER FOR WILDLIFE AND WILL ATTRACT A VARIETY OF POLLINATORS AND SONGBIRDS. THE WILDFLOWERS AND GRASSES IN THE SELECTED MIX WILL PROVIDE AN ATTRACTIVE DISPLAY OF COLOR FROM SPRING TO FALL AND WILL PROVIDE NECTAR AND FOOD FOR POLLINATORS AND THEIR LARVA.

NOT FOR CONSTRUCTION

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ALFRED M CARON
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DENVER, CO 80202

TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
GRADING PLAN - SOUTH

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
02/04/19

SCALE:	1" = 60'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-5.3

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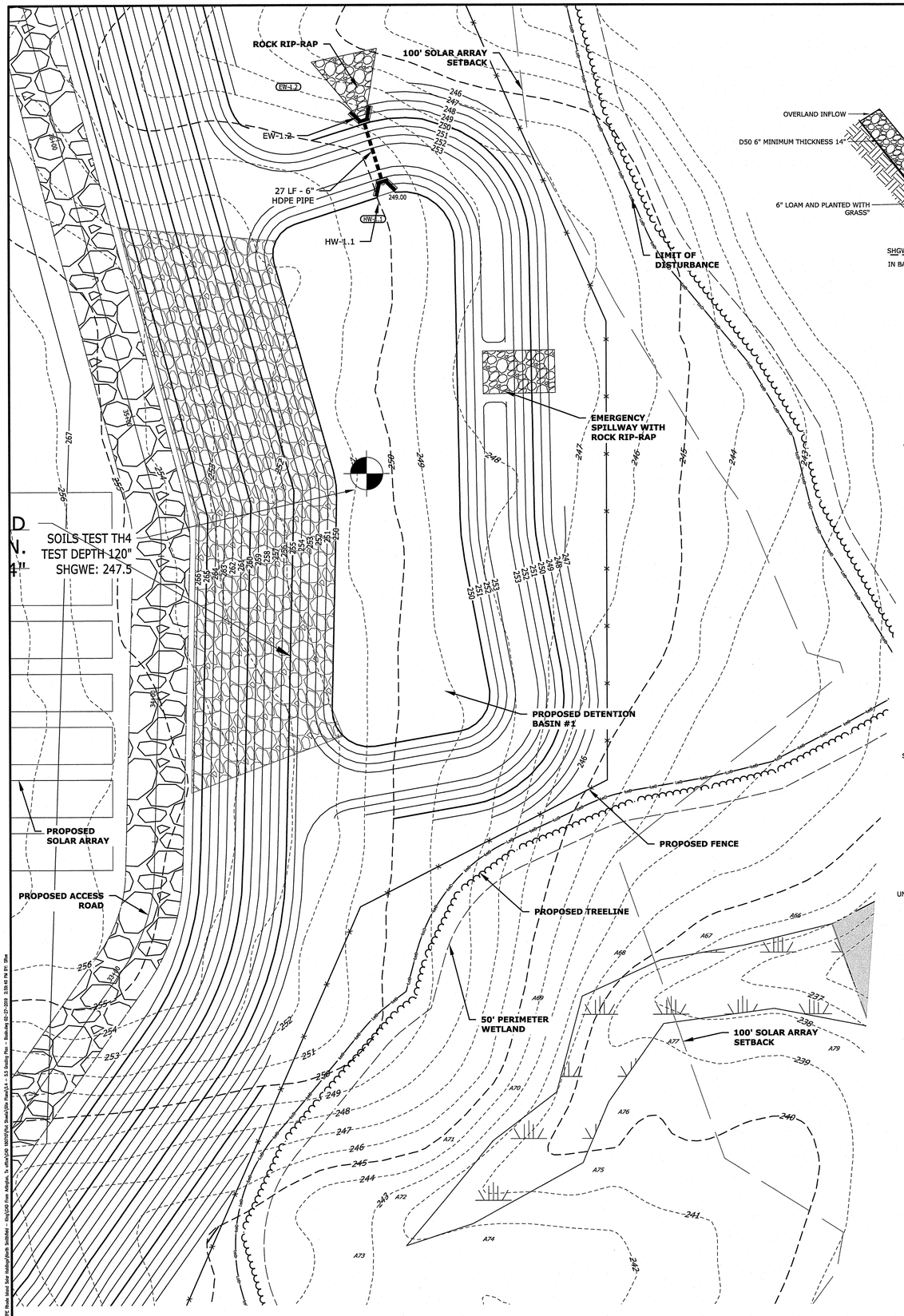
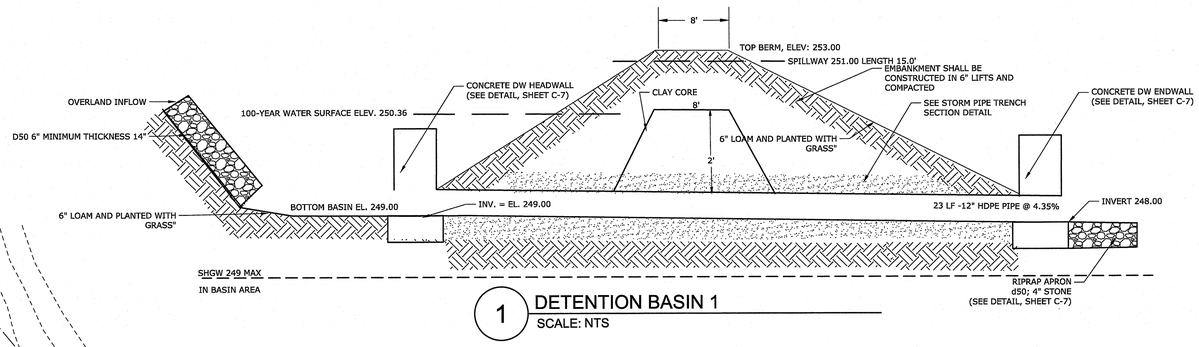
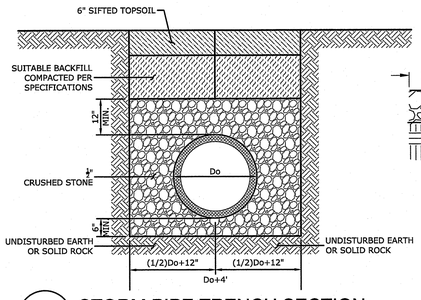




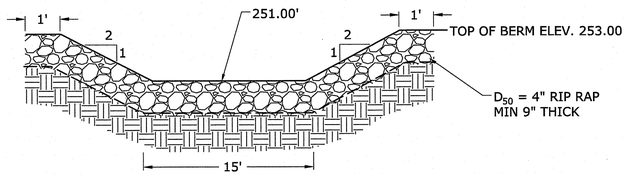
1 DETENTION BASIN 1
SCALE: NTS

BASIN EARTHWORK NOTES:

1. FILL MATERIAL SHOULD BE TAKEN FROM APPROVED DESIGNATED EXCAVATION AREAS. IT SHOULD BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6 INCHES, OR OTHER OBJECTIONABLE MATERIALS. MATERIALS ON THE OUTER SURFACE OF THE EMBANKMENT MUST HAVE THE CAPABILITY TO SUPPORT VEGETATION.
2. AREAS WHERE FILL IS TO BE PLACED SHOULD BE SCARIFIED PRIOR TO PLACEMENT. FILL MATERIALS THE EMBANKMENT SHOULD BE PLACED IN MAXIMUM 6-INCH LIFTS. THE PRINCIPAL SPILLWAY SHOULD BE INSTALLED CONCURRENTLY WITH FILL PLACEMENT AND NOT EXCAVATED INTO THE EMBANKMENT.
3. THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE SITE SHOULD BE CONTROLLED. FOR THE EMBANKMENT, EACH LIFT SHOULD BE COMPACTED TO 95% OF THE STANDARD PROCTOR. FILL MATERIAL SHOULD CONTAIN SUFFICIENT MOISTURE.
4. BACKFILL ADJACENT TO PIPES AND STRUCTURES SHOULD BE OF THE TYPE AND QUALITY OF THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL SHOULD BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL SHOULD FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. AT NO TIME DURING THE BACKFILLING OPERATION SHOULD DRIVEN EQUIPMENT BE UTILIZED CLOSER THAN 4 TO ANY STRUCTURE.
5. FILL MATERIAL MUST MEET ALL STATE REGULATIONS.



4 STORM PIPE TRENCH SECTION
SCALE: NTS



2 SPILLWAY DETAIL BASIN 1
SCALE: NTS

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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DATED MAR 21 2019 FILE # 18-0814
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Christine D. Dieruk

GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'

N

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD

LEGEND — PROPOSED GRADING FEATURES

- 421 — INTERMEDIATE CONTOUR LINES
- 420 — INDEX CONTOUR LINES
- 2.00% — SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NOT FOR CONSTRUCTION

NO.	REVISION	DATE
7	REVISIONS PER RIDEM COMMENTS	01/28/2019
6	REVISED ARRAY LAYOUT	12/05/2018
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1	REVISIONS PER OWNER	7/10/2018

Property Owners:

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MARTIN, FL 33455

ALFRED M CARON
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DENVER, CO 80202

TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

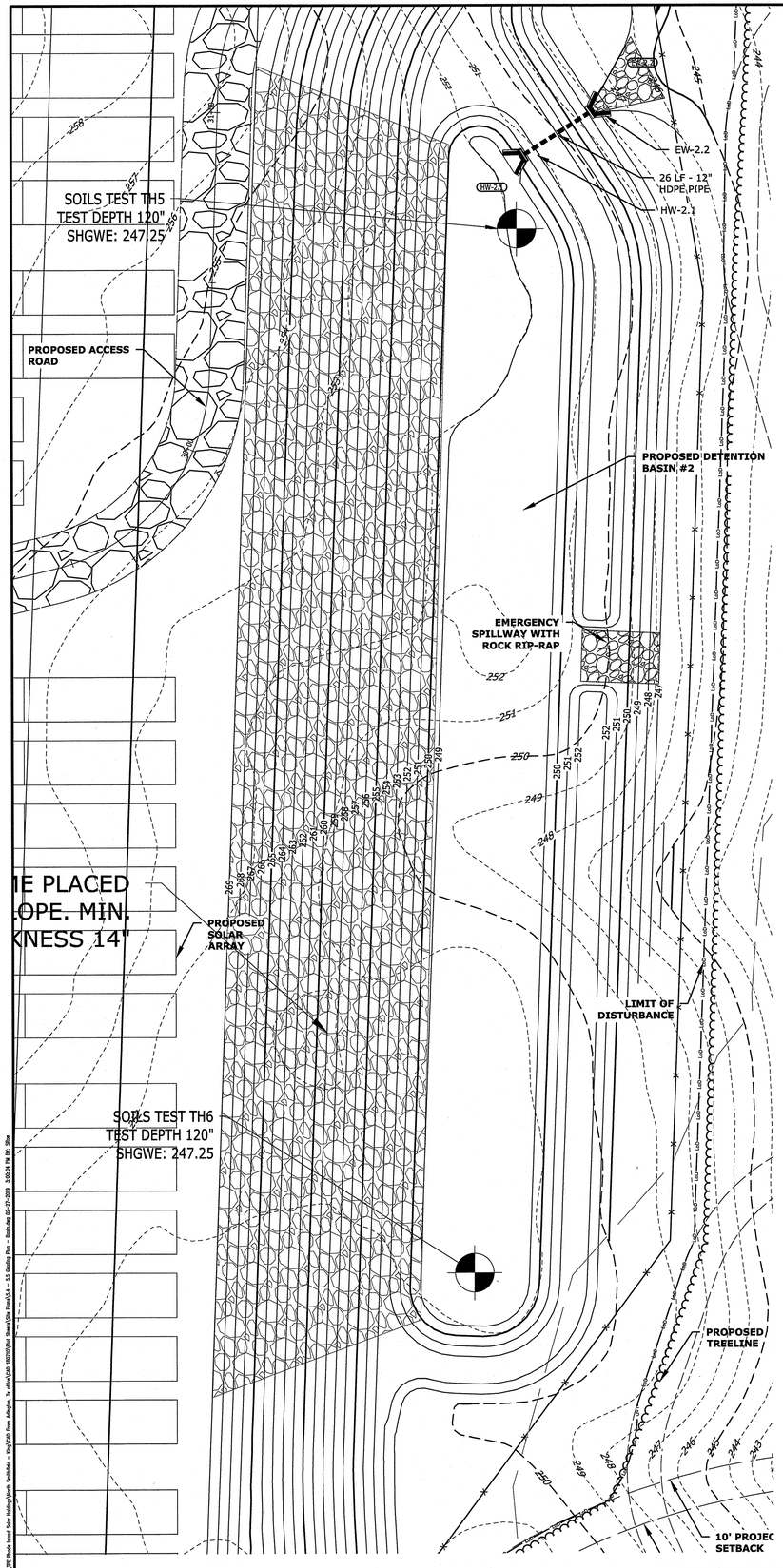
GRADING PLAN - BASIN #1

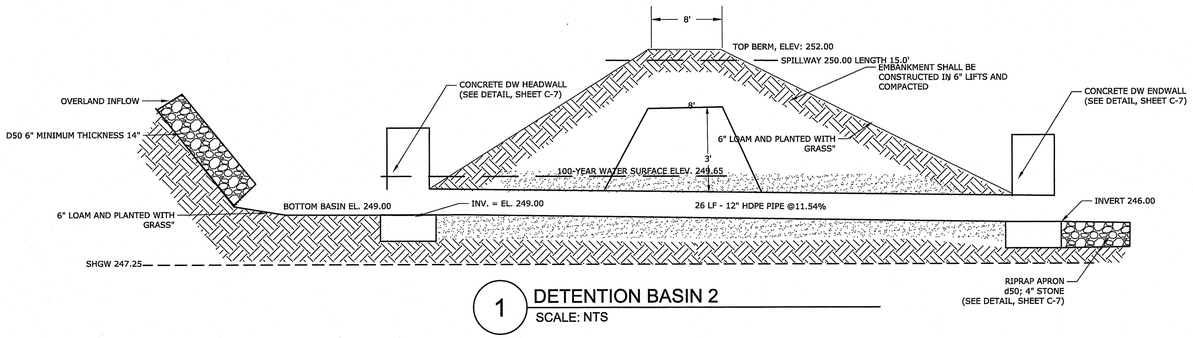
STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/28/19

SCALE:	1" = 20'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-5.4

I:\TPE Rhode Island Solar Holdings\North Smithfield - Bldg\CAD Files\ Arlington, Tx office\CAD 288700\Plot Sheets\Site Plan\LS-1 SS Grading Plan — Basin.dwg 05-22-2019 3:56:40 PM PT Stiles

Xrefs: I:\Work\North Smithfield\04_xrSITE.dwg, I:\Work\North Smithfield\03_xrEXP.dwg, I:\Work\North Smithfield\01_xrTB.dwg, I:\Work\North Smithfield\05_xrGRADE.dwg

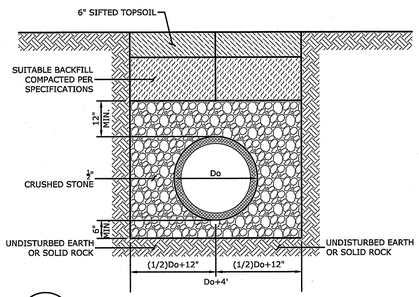




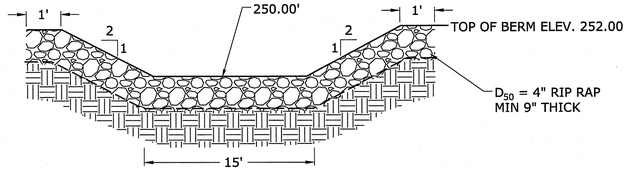
1 DETENTION BASIN 2
SCALE: NTS

BASIN EARTHWORK NOTES:

1. FILL MATERIAL SHOULD BE TAKEN FROM APPROVED DESIGNATED EXCAVATION AREAS. IT SHOULD BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6 INCHES, OR OTHER OBJECTIONABLE MATERIALS. MATERIALS ON THE OUTER SURFACE OF THE EMBANKMENT MUST HAVE THE CAPABILITY TO SUPPORT VEGETATION.
2. AREAS WHERE FILL IS TO BE PLACED SHOULD BE SCARIFIED PRIOR TO PLACEMENT. FILL MATERIALS THE EMBANKMENT SHOULD BE PLACED IN MAXIMUM 6-INCH LIFTS. THE PRINCIPAL SPILLWAY SHOULD BE INSTALLED CONCURRENTLY WITH FILL PLACEMENT AND NOT EXCAVATED INTO THE EMBANKMENT.
3. THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE SITE SHOULD BE CONTROLLED. FOR THE EMBANKMENT, EACH LIFT SHOULD BE COMPACTED TO 95% OF THE STANDARD PROCTOR. FILL MATERIAL SHOULD CONTAIN SUFFICIENT MOISTURE.
4. BACKFILL ADJACENT TO PIPES AND STRUCTURES SHOULD BE OF THE TYPE AND QUALITY OF THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL SHOULD BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL SHOULD FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. AT NO TIME DURING THE BACKFILLING OPERATION SHOULD DRIVEN EQUIPMENT BE UTILIZED CLOSER THAN 4 TO ANY STRUCTURE.
5. FILL MATERIAL MUST MEET ALL STATE REGULATIONS.



3 STORM PIPE TRENCH SECTION
SCALE: NTS



2 SPILLWAY DETAIL BASIN 2
SCALE: NTS

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD

LEGEND — PROPOSED GRADING FEATURES

- 421 — INTERMEDIATE CONTOUR LINES
- 420 — INDEX CONTOUR LINES
- 2.00% — SLOPE OR GRADE LABEL
- ENDWALL
- DRAINAGE CULVERT OR PIPE
- RIPRAP

NOT FOR CONSTRUCTION

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Applicant

TPE RHODE ISLAND SOLAR HOLDINGS2, LLC
999 18th STREET, SUITE 3000
DENVER, CO 80202

TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

GRADING PLAN - BASIN #2

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 20'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-5.5

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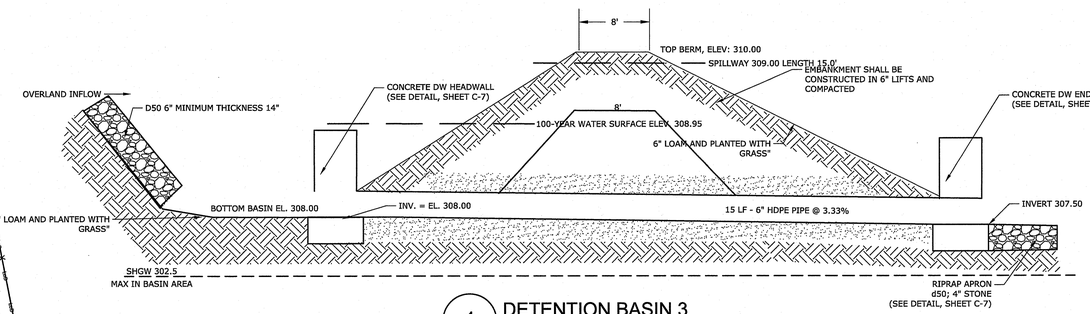
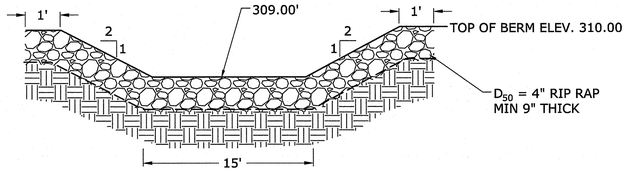


1 DETENTION BASIN 3
SCALE: NTS

BASIN EARTHWORK NOTES:

1. FILL MATERIAL SHOULD BE TAKEN FROM APPROVED DESIGNATED EXCAVATION AREAS. IT SHOULD BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6 INCHES, OR OTHER OBJECTIONABLE MATERIALS. MATERIALS ON THE OUTER SURFACE OF THE EMBANKMENT MUST HAVE THE CAPABILITY TO SUPPORT VEGETATION.
2. AREAS WHERE FILL IS TO BE PLACED SHOULD BE SCARIFIED PRIOR TO PLACEMENT. FILL MATERIALS THE EMBANKMENT SHOULD BE PLACED IN MAXIMUM 6-INCH LIFTS. THE PRINCIPAL SPILLWAY SHOULD BE INSTALLED CONCURRENTLY WITH FILL PLACEMENT AND NOT EXCAVATED INTO THE EMBANKMENT.
3. THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE SITE SHOULD BE CONTROLLED. FOR THE EMBANKMENT, EACH LIFT SHOULD BE COMPACTED TO 95% OF THE STANDARD PROCTOR. FILL MATERIAL SHOULD CONTAIN SUFFICIENT MOISTURE.
4. BACKFILL ADJACENT TO PIPES AND STRUCTURES SHOULD BE OF THE TYPE AND QUALITY OF THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL SHOULD BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL SHOULD FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. AT NO TIME DURING THE BACKFILLING OPERATION SHOULD DRIVEN EQUIPMENT BE UTILIZED CLOSER THAN 4 TO ANY STRUCTURE.
5. FILL MATERIAL MUST MEET ALL STATE REGULATIONS.



2 SPILLWAY DETAIL BASIN 3
SCALE: NTS

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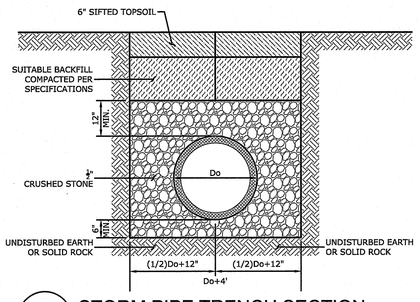
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 21 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



3 STORM PIPE TRENCH SECTION
SCALE: NTS

GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- X FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL

NOT FOR CONSTRUCTION

NO.	REVISION	DATE
7	REVISIONS PER RIDEM COMMENTS	01/28/2019
6	REVISED ARRAY LAYOUT	12/05/2018
5	EROSION CONTROL PLAN REVISIONS	11/13/2018
4	REVISIONS PER OWNER	10/18/2018
3	REVISIONS PER OWNER	10/02/2018
2	REVISIONS PER TOWN COMMENTS	9/04/2018
1	REVISIONS PER OWNER	7/10/2018

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
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DENVER, CO 80202

TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:

GRADING PLAN - BASIN #3

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/04/19

SCALE:	1" = 20'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-5.6

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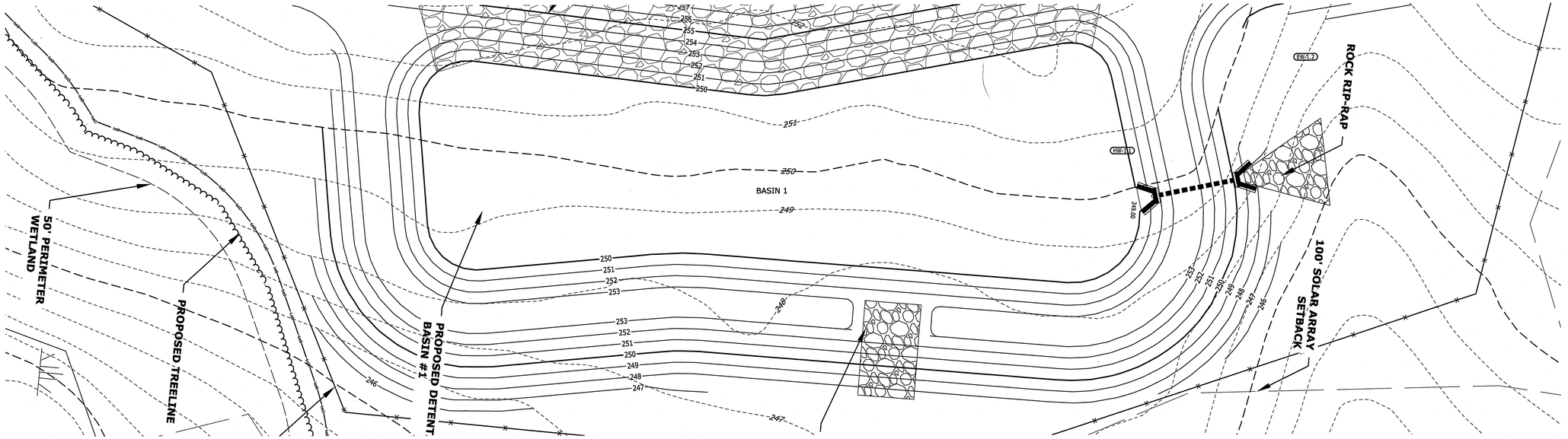
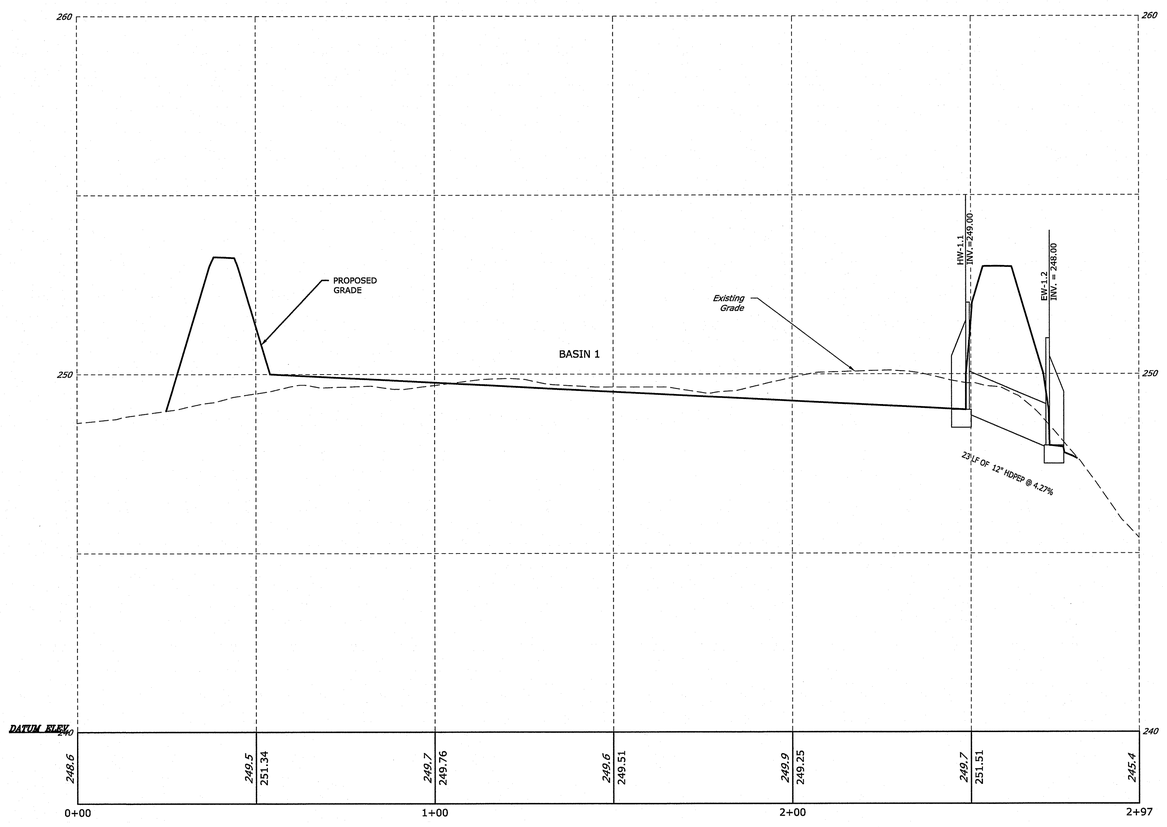


PLAN
SCALE: 1" = 20' H

GRAPHIC SCALE
15' 7' 0 15'
SCALE IN FEET
1" = 15'



HW-1.1 to EW-1.2 (BASIN 1)
HORZ. SCALE: 1"=20'
VERT. SCALE: 1"= 2'

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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 MAR 21 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Christine D. Schmeck

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD

LEGEND — PROPOSED GRADING FEATURES

- 421 — INTERMEDIATE CONTOUR LINES
- 420 — INDEX CONTOUR LINES
- 2.00% — SLOPE OR GRADE LABEL
- ENDWALL

NOT FOR CONSTRUCTION

NO.	REVISION	DATE
7	REVISIONS PER RIDEM COMMENTS	01/28/2019
6	REVISED ARRAY LAYOUT	12/05/2018
5	EROSION CONTROL PLAN REVISIONS	11/13/2018
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2	REVISIONS PER TOWN COMMENTS	9/04/2018
1	REVISIONS PER OWNER	7/10/2018

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
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NORTH SMITHFIELD, RI 02896

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www.dipreta-eng.com

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DENVER, CO 80202

TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
BASIN 1 - PIPE RUN

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 15'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-5.7

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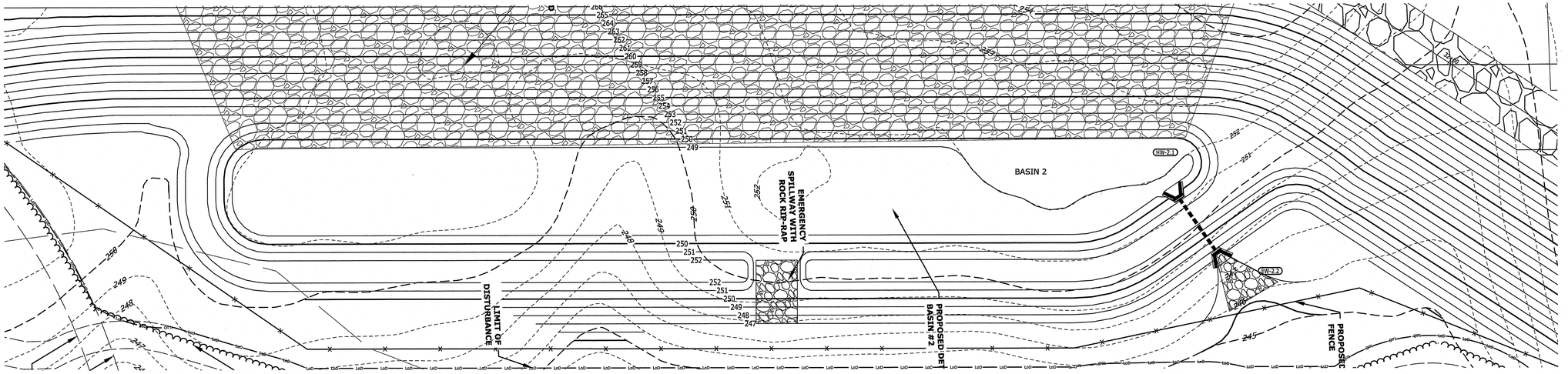
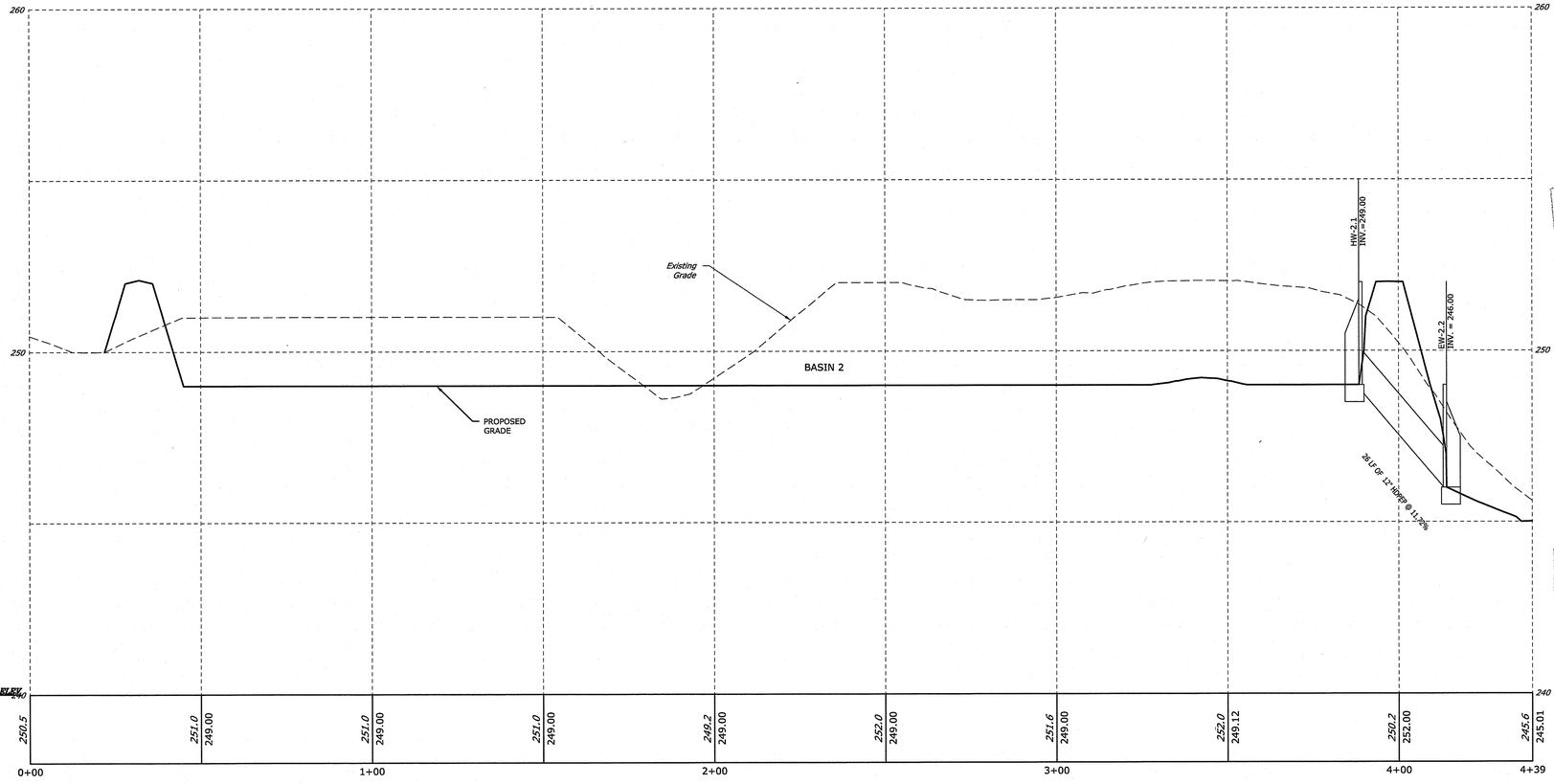


PLAN
SCALE: 1" = 20' H

GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'



HW-2.1 to EW-2.2 (BASIN 2)
HORZ. SCALE: 1"=20'
VERT. SCALE: 1"= 2'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD

LEGEND — PROPOSED GRADING FEATURES

- 421 — INTERMEDIATE CONTOUR LINES
- 420 — INDEX CONTOUR LINES
- 2.00% — SLOPE OR GRADE LABEL
- ENDWALL

NOT FOR CONSTRUCTION

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Jonathan D. Schmeck

NO.	REVISION	DATE
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2	REVISIONS PER TOWN COMMENTS	9/04/2018
1	REVISIONS PER OWNER	7/10/2018

Property Owners:

WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

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DENVER, CO 80202
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
BASIN 2 - PIPE RUN

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
02/04/19

SCALE:	1" = 20'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-5.8

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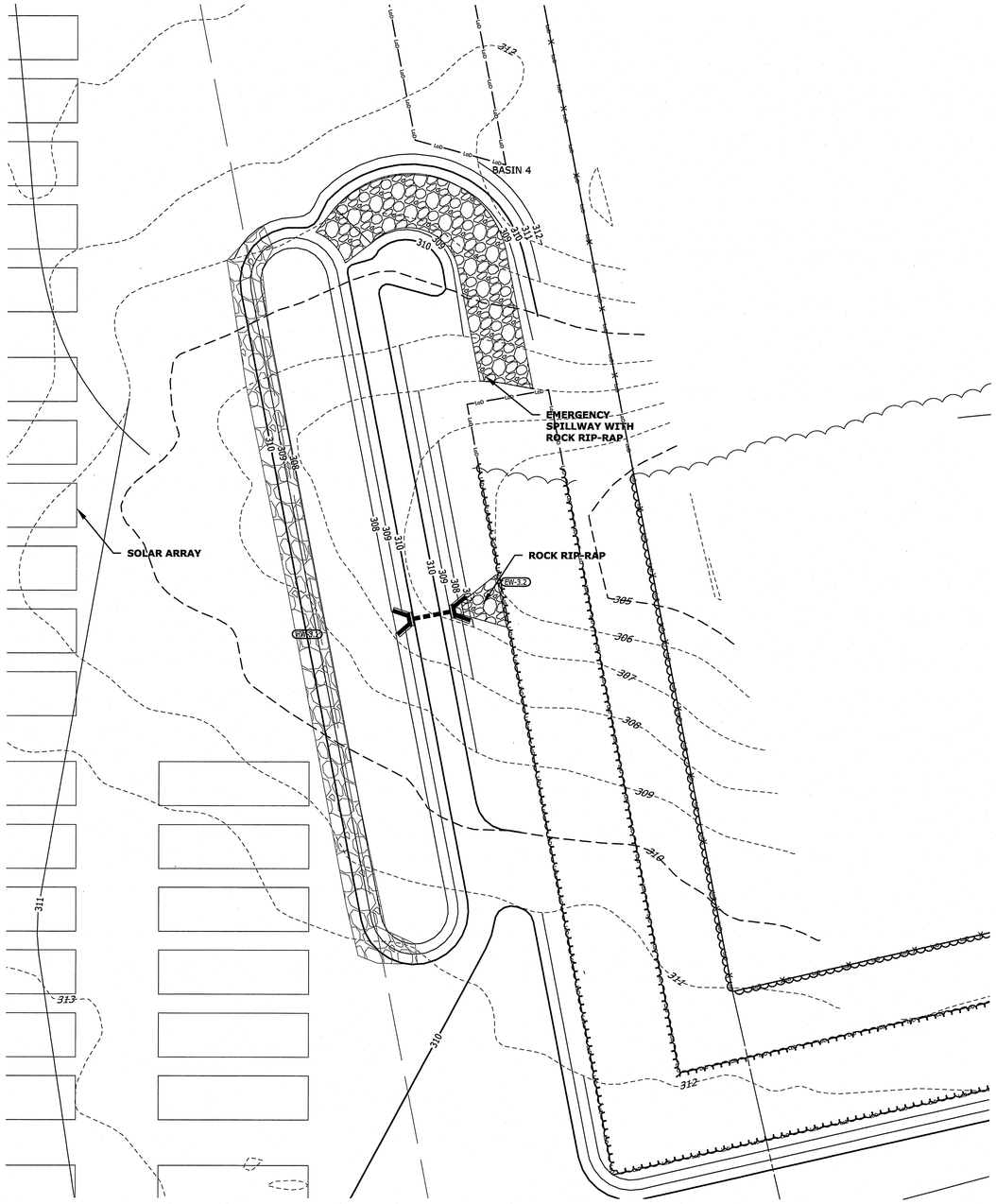
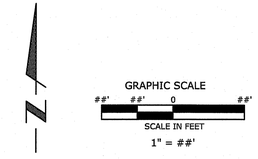


PLAN
SCALE: 1" = 20' H

HW-3.1 to EW-3.2 (BASIN 3)
HORZ. SCALE: 1"=20'
VERT. SCALE: 1"= 2'



LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD

LEGEND — PROPOSED GRADING FEATURES

- 421 — INTERMEDIATE CONTOUR LINES
- 420 — INDEX CONTOUR LINES
- 2.00% — SLOPE OR GRADE LABEL
- ENDWALL

NOT FOR CONSTRUCTION

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OFFICE OF WATER RESOURCES
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1	REVISIONS PER OWNER	7/10/2018

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TurningPoint Energy

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Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
BASIN 3 - PIPE RUN

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/28/19

SCALE:	1" = 20'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000

DRAWING NO.:
C-5.9

Xrefs: I:\Work\North Smithfield\04_xrSITE.dwg, I:\Work\North Smithfield\03_xrDEP.dwg, I:\Work\North Smithfield\01_xrTB.dwg, I:\Work\North Smithfield\06_xrGRADE.dwg
Textures:
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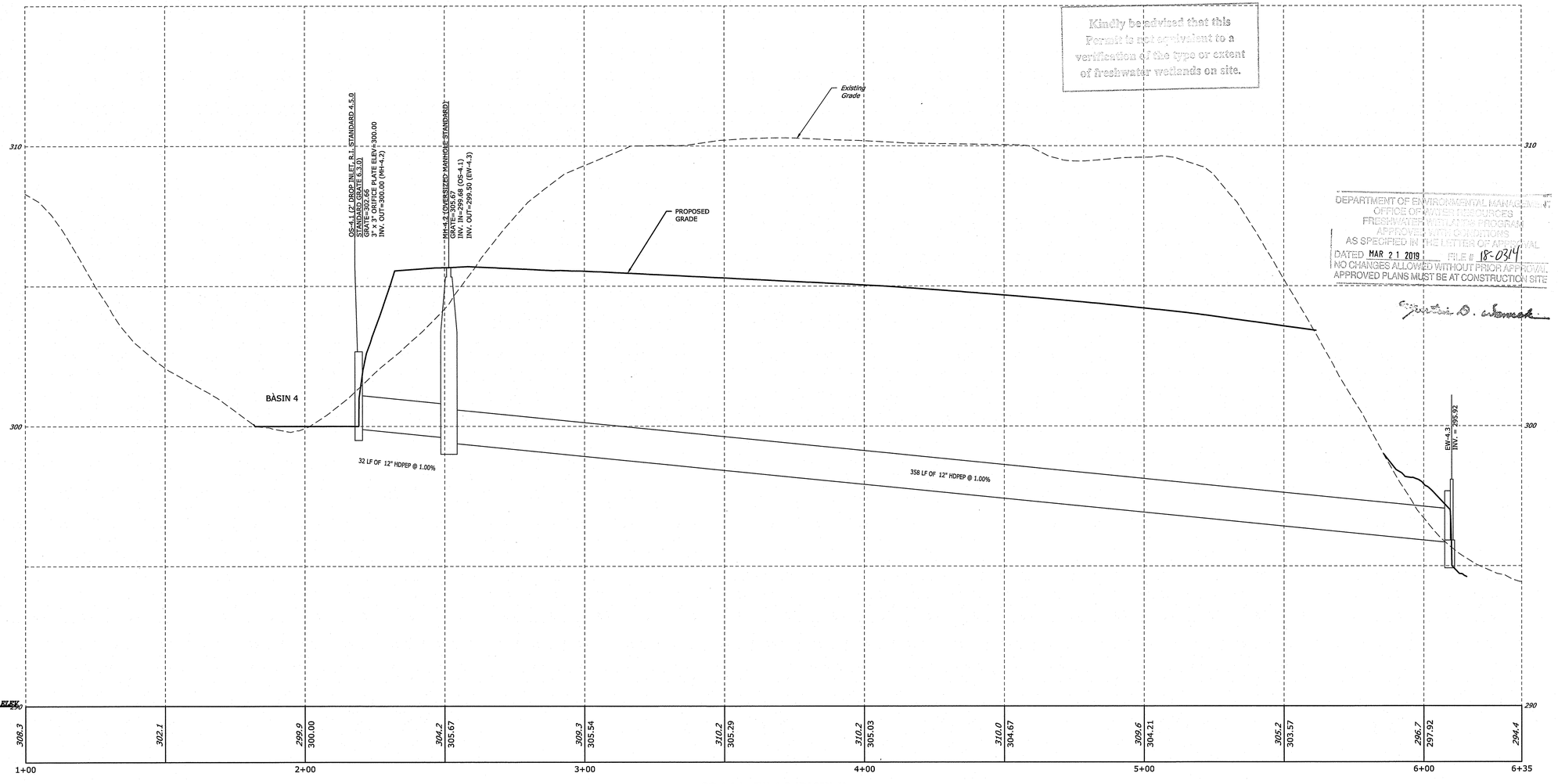
PLAN
SCALE: 1" = 20' H

GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'



OS-4.1 to EW-4.3 (BASIN 4)
HORZ. SCALE: 1"=20'
VERT. SCALE: 1" = 2'

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LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 — INDEX CONTOUR LINE
- 421 — INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE
- FLOODPLAIN

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE — UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE — OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD

LEGEND — PROPOSED GRADING FEATURES

- 421 — INTERMEDIATE CONTOUR LINES
- 420 — INDEX CONTOUR LINES
- 2.00% — SLOPE OR GRADE LABEL
- ENDWALL

NOT FOR CONSTRUCTION

NO.	REVISION	DATE
7	REVISIONS PER RIDEM COMMENTS	01/28/2019
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TurningPoint Energy

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DRAWING TITLE:
BASIN 4 - PIPE RUN

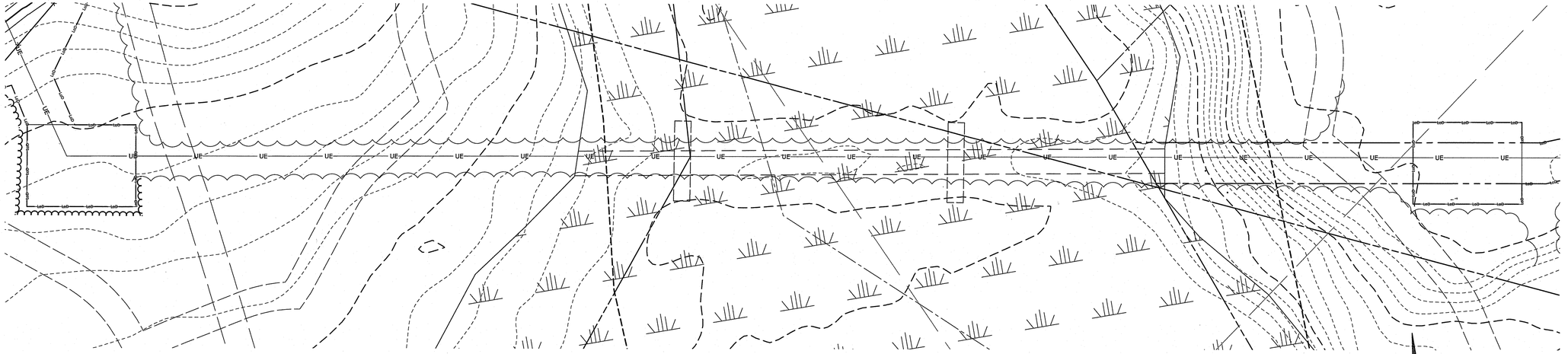
STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/04/19

SCALE:	1" = 20'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000

DRAWING NO.:
C-5.10

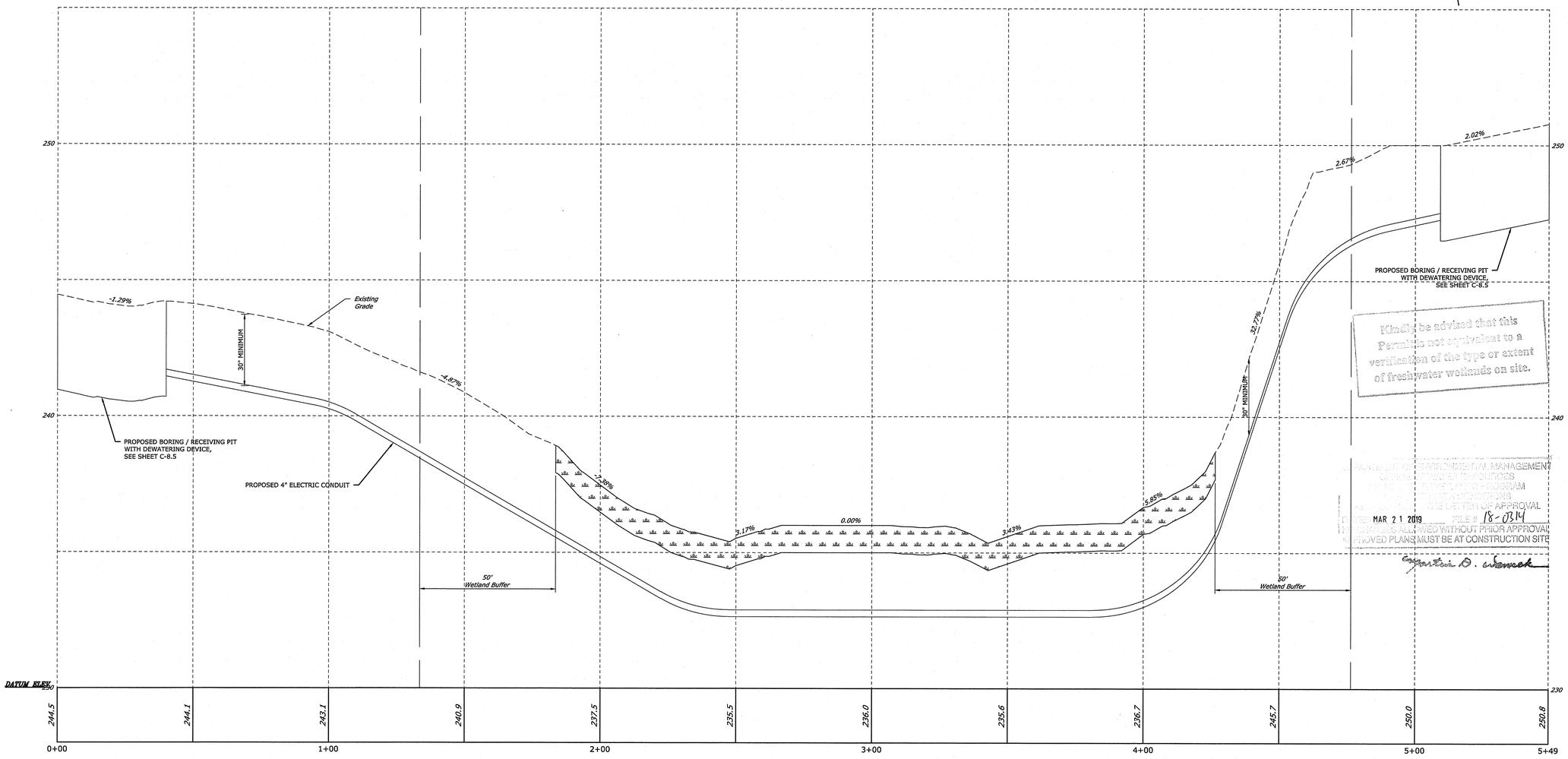
L:\TPE Rhode Island Solar Holdings\North Smithfield - Bryl\100 Final Plotplans, Tx, xRefs\100 ARCHIVE\Plot Sheets\Site Plan\1-1 - 5.5 Grading Plan - Basin.dwg 05-07-2019 - 3:05:39 PM, EDT, Brian

XRefs: L:\Work\North Smithfield\04_xr\SITE.dwg L:\Work\North Smithfield\03_xr\DXF.dwg L:\Work\North Smithfield\01_xr\TB.dwg L:\Work\North Smithfield\05_xr\GRADE.dwg



PLAN
SCALE: 1" = 20' H

GRAPHIC SCALE
20' 10' 0 20'
SCALE IN FEET
1" = 20'



UTILITY CROSSING
HORZ. SCALE: 1"=20'
VERT. SCALE: 1"= 2'

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE

LEGEND — PROPOSED SITE FEATURES

- CENTER LINE
- TREELINE
- ACCESS DRIVE
- SOLAR ARRAY
- FENCE
- UE UNDERGROUND ELECTRIC LINES OR CONDUITS
- OE OVERHEAD ELECTRIC LINES OR CONDUITS
- PROPOSED UTILITY POLE
- CONCRETE PAD

LEGEND — PROPOSED GRADING FEATURES

- 421 INTERMEDIATE CONTOUR LINES
- 420 INDEX CONTOUR LINES
- 2.00% SLOPE OR GRADE LABEL
- ENDWALL

NOT FOR CONSTRUCTION

NO.	REVISION	DATE
7	REVISIONS PER RIDEM COMMENTS	01/28/2019
6	REVISED ARRAY LAYOUT	12/05/2018
5	EROSION CONTROL PLAN REVISIONS	11/13/2018
4	REVISIONS PER OWNER	10/18/2018
3	REVISIONS PER OWNER	10/02/2018
2	REVISIONS PER TOWN COMMENTS	9/04/2018
1 .	REVISIONS PER OWNER	7/10/2018

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
APPROVED UNDER THE PURPOSES
OF THE FRESHWATER WETLANDS PROGRAM
AND THE COASTAL RESOURCES
MANAGEMENT PROGRAM
SUBJECT TO THE LETTER OF APPROVAL
MAR 21 2019 FILE # 18-0314
CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

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tel 401-943-1000 fax 401-464-9008
www.dipreteeng.com

Applicant
TPE RHODE ISLAND SOLAR HOLDINGS2, LLC
999 18th STREET, SUITE 3000
DENVER, CO 80202
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
UTILITY CROSSING

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
02/04/19

SCALE:	1" = 20'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-5.11

I:\TPE Rhode Island Solar Holdings\North Smithfield - Kay\CAD Files\ Attyfax, Tx office\CAD 2017\TPEx\ Shared\Site Plans\14 - 11 Grading Plan - Backup 02-27-2019 3:55:14 PM By: Stew

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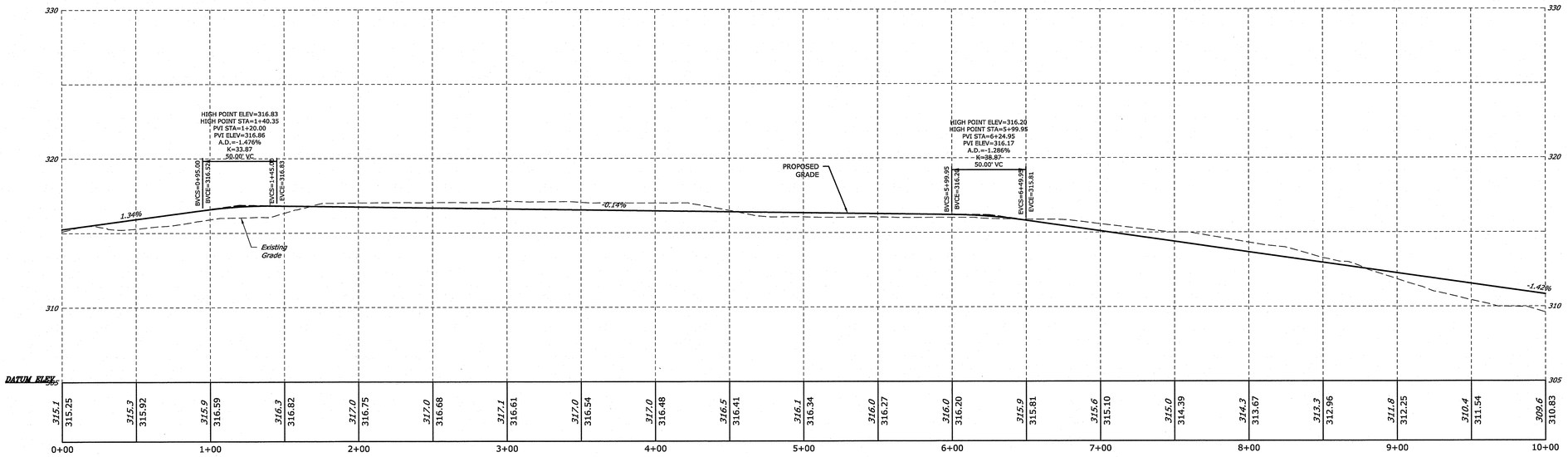
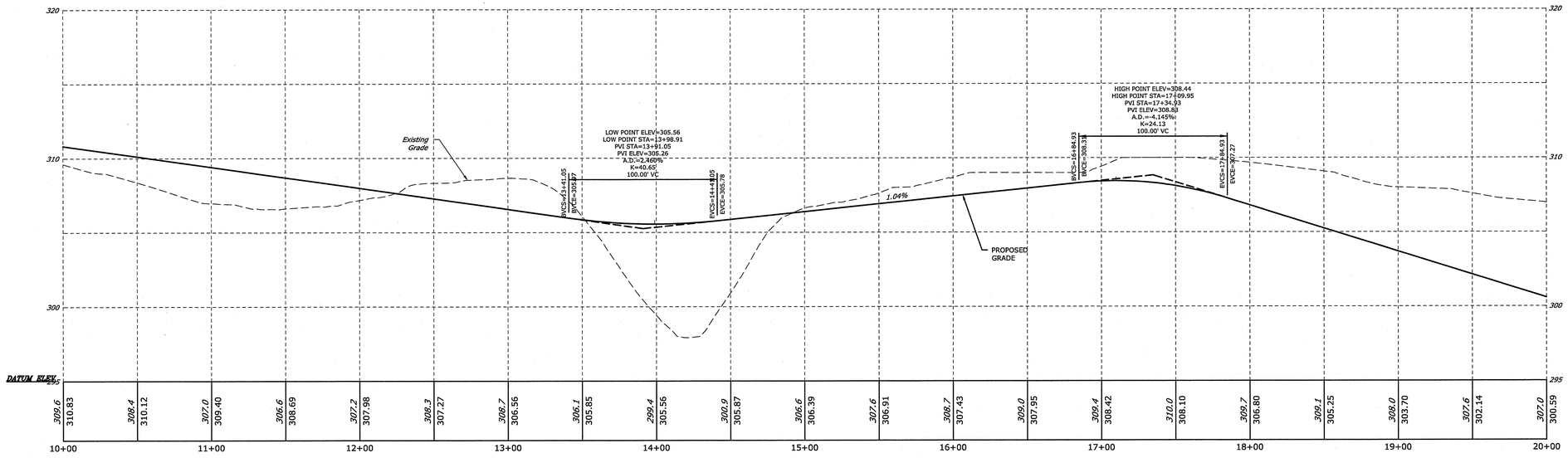


PROPOSED ACCESS DRIVE
STA. 0+00 -10+00
SCALE: 1"=40' H
1"=4' V



PROPOSED ACCESS DRIVE
STA. 10+00 -20+00
SCALE: 1"=40' H
1"=4' V

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
AS SPECIFIED IN THE RULES AND REGULATIONS
DATED MAR 21 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NOT FOR CONSTRUCTION

NO.	REVISION	DATE
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2	REVISIONS PER TOWN COMMENTS	9/04/2018
1	REVISIONS PER OWNER	7/10/2018

Property Owners:
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6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

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www.diprete-eng.com

Applicant
TPE RHODE ISLAND SOLAR HOLDINGS2, LLC
999 18th STREET, SUITE 3000
DENVER, CO 80202
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
ACCESS DRIVE PROFILE I

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
3/21/19

SCALE:	AS SHOWN
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-6

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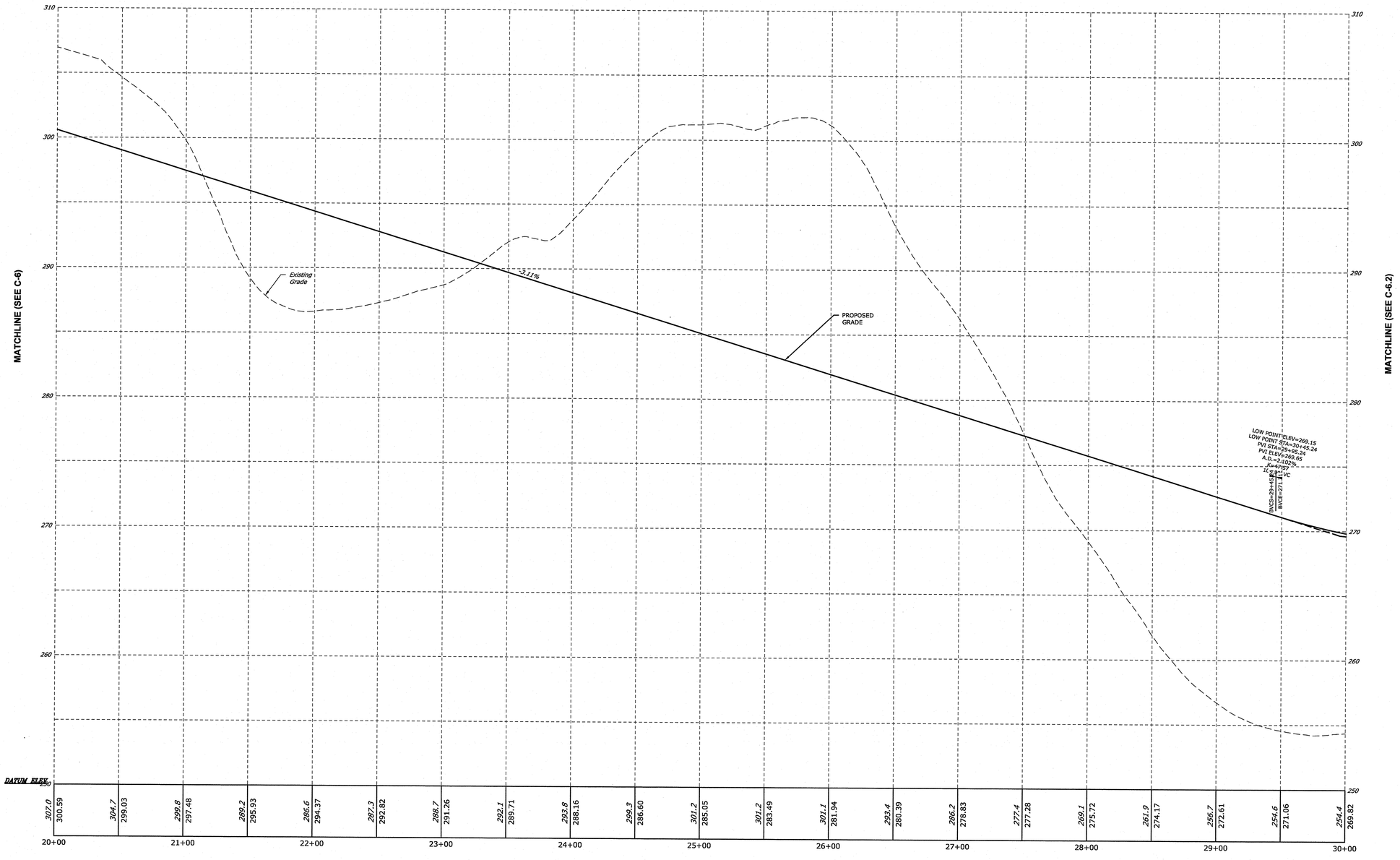

PROPOSED ACCESS DRIVE
STA. 20+00 -30+00
SCALE: 1"=40' H
1"=4' V

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 MAR 21 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Jonathan D. Womack

NOT FOR CONSTRUCTION

NO.	REVISION	DATE
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1	REVISIONS PER OWNER	7/10/2018

Property Owners:

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MARTIN, FL 33455

WALLACE AND DOROTHY STONE
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Applicant

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999 18th STREET, SUITE 3000
DENVER, CO 80202

TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
ACCESS DRIVE PROFILE II

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	AS SHOWN
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-6.1

Xrefs: ...\Dwb\North Smithfield\01_xr18.dwg; ...\Dwb\North Smithfield\06_xrGRADE.dwg
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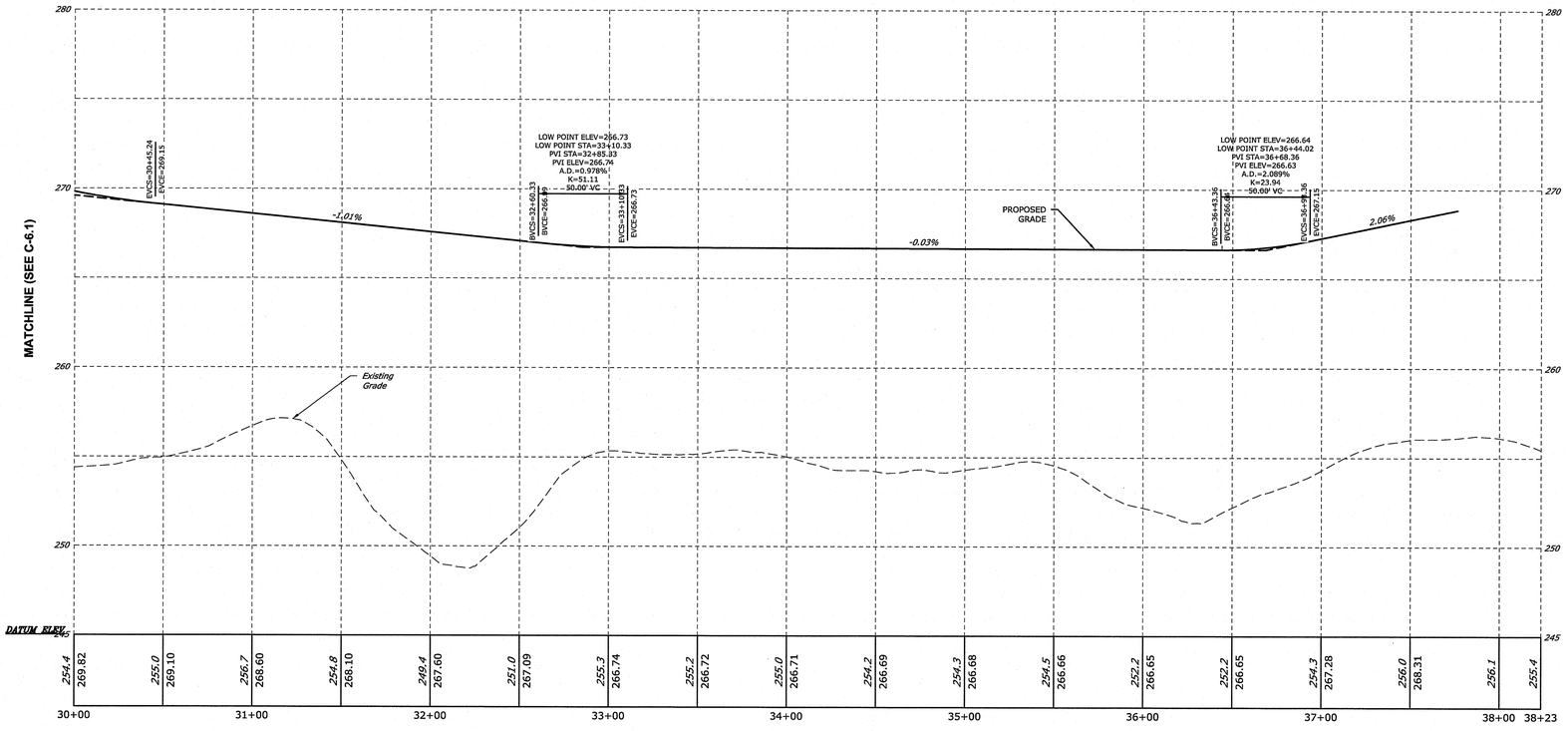

PROPOSED ACCESS DRIVE
STA. 30+00 - 38+00

SCALE: 1"=40' H
1"=4' V

Kindly be advised that this Permit is not consistent 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 MAR 21 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Cynthia D. Warnock

NOT FOR CONSTRUCTION

NO.	REVISION	DATE
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1	REVISIONS PER OWNER	7/10/2018

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Applicant
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999 18th STREET, SUITE 3000
DENVER, CO 80202

TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
ACCESS DRIVE PROFILE III

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/02/19

SCALE:	AS SHOWN
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000

DRAWING NO.:
C-6.2

Xrefs: ...\Grd\North Smithfield\1_xrTB.dwg ...\Grd\North Smithfield\5_xrGRADE.dwg
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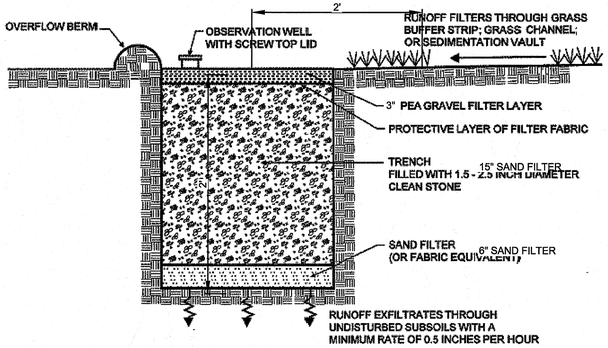
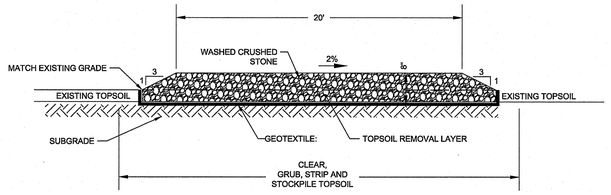


INFILTRATION TRENCH DETAIL

NOT TO SCALE

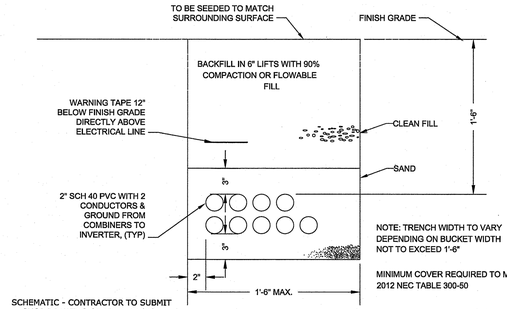


CONSTRUCTION NOTES:

1. SUBGRADE SHALL BE COMPACTED TO 90% OF ASTM D1557.
2. SUBGRADE SHALL BE PROOF ROLLED PRIOR TO THE PLACEMENT OF CRUSHED STONE.
3. GEOTEXTILE SHALL BE MIRAFI 500X OR APPROVED EQUAL.
4. GEOTEXTILE: SEPARATES AND PREVENTS SETTLING BETWEEN SUBGRADE AND GRAVEL SUBBASE.
5. CONTRACTOR SHALL EXTEND DEPTH OF WASHED CRUSHED STONE SHALL EXTEND LOWER THAN THE PROPOSED EXISTING GRADE.

TYPICAL ACCESS ROAD SECTION

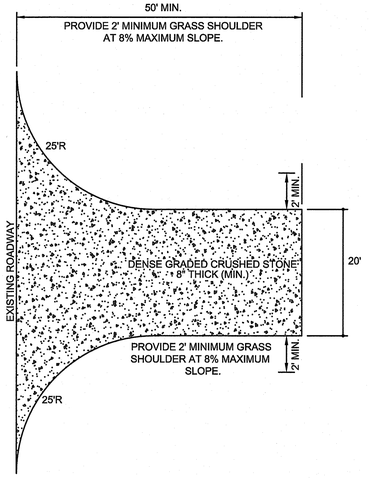
NOT TO SCALE



SCHEMATIC - CONTRACTOR TO SUBMIT SHOP DRAWING OF FINAL DESIGN

DC CONDUIT TRENCH DETAIL

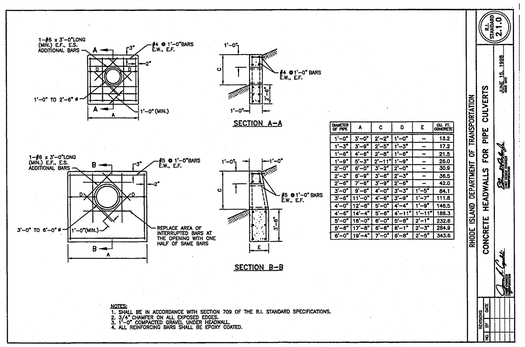
NOT TO SCALE



PLAN

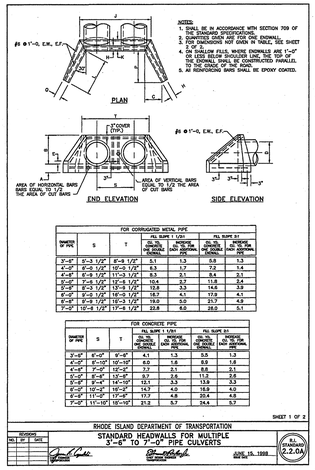
CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE



SIZE OF PIPE	A	C	D	E	CU. FT. CONCRETE
1'-0"	2'-0"	2'-0"	1'-0"	–	13.2
1'-3"	2'-0"	2'-0"	1'-3"	–	17.2
1'-6"	2'-0"	2'-0"	1'-6"	–	21.5
1'-9"	2'-0"	2'-11"	1'-6"	–	26.0
2'-0"	2'-0"	3'-3"	1'-6"	–	30.9
2'-3"	2'-0"	3'-8"	2'-0"	–	36.5
2'-6"	2'-0"	3'-8"	2'-0"	–	42.2
3'-0"	2'-0"	4'-0"	2'-3"	1'-3"	64.1
3'-6"	2'-0"	4'-0"	2'-6"	1'-3"	111.8
4'-0"	2'-0"	5'-0"	4'-0"	1'-9"	146.0
4'-6"	2'-0"	5'-0"	4'-0"	1'-11"	186.3
5'-0"	2'-0"	6'-0"	5'-0"	2'-1"	232.0
5'-6"	2'-0"	6'-0"	5'-0"	2'-3"	284.9
6'-0"	2'-0"	7'-0"	6'-0"	2'-5"	343.6

NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 709 OF THE R.I. STANDARD SPECIFICATIONS.
2. 3/4" CHAMFER ON ALL EXPOSED EDGES.
3. REINFORCING SHALL BE #5 BARS @12" O.C. EQUAL.
4. ALL REINFORCING BARS SHALL BE EPOXY COATED.

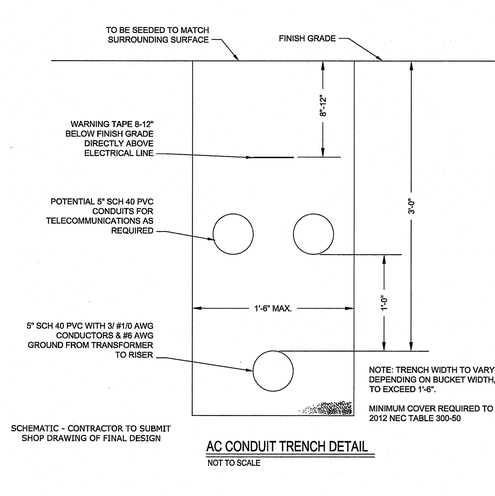


FOR CORRUGATED METAL PIPE						
SIZE OF PIPE	S	T	FILL SLOPE 1:1(H)		FILL SLOPE 2:1	
			EQ. SQ. REINFORCING STEEL (EACH WAY)	WEIGHT OF REINFORCING STEEL (LBS.)	EQ. SQ. REINFORCING STEEL (EACH WAY)	WEIGHT OF REINFORCING STEEL (LBS.)
3'-6"	5'-3 1/2"	8'-6 1/2"	5.1	1.3	0.8	1.3
4'-0"	6'-0 1/2"	10'-1 1/2"	6.3	1.7	7.2	1.6
4'-6"	6'-9 1/2"	11'-3 1/2"	8.3	2.1	8.4	2.1
5'-0"	7'-6 1/2"	12'-6 1/2"	10.4	2.7	11.8	2.4
5'-6"	8'-3 1/2"	13'-8 1/2"	12.8	3.3	14.6	3.0
6'-0"	8'-10 1/2"	14'-9 1/2"	18.7	4.1	17.9	3.5
6'-6"	9'-6 1/2"	16'-3 1/2"	19.0	5.0	21.7	4.9
7'-0"	10'-4 1/2"	17'-6 1/2"	22.8	6.0	26.0	5.1

FOR CONCRETE PIPE						
SIZE OF PIPE	S	T	FILL SLOPE 1:1(H)		FILL SLOPE 2:1	
			EQ. SQ. REINFORCING STEEL (EACH WAY)	WEIGHT OF REINFORCING STEEL (LBS.)	EQ. SQ. REINFORCING STEEL (EACH WAY)	WEIGHT OF REINFORCING STEEL (LBS.)
3'-6"	6'-0"	9'-6"	4.5	1.3	3.5	1.3
4'-0"	6'-10"	10'-10"	5.5	1.6	5.0	1.8
4'-6"	7'-8"	12'-2"	6.8	1.9	6.8	2.1
5'-0"	8'-4"	13'-4"	8.7	2.5	11.2	2.5
5'-6"	9'-2"	14'-6"	10.7	3.1	13.9	3.0
6'-0"	10'-0"	16'-0"	14.7	4.0	18.9	4.0
6'-6"	11'-0"	17'-6"	17.7	4.8	20.4	4.6
7'-0"	11'-10"	18'-10"	21.2	5.7	24.4	5.7

SHEET 1 OF 2

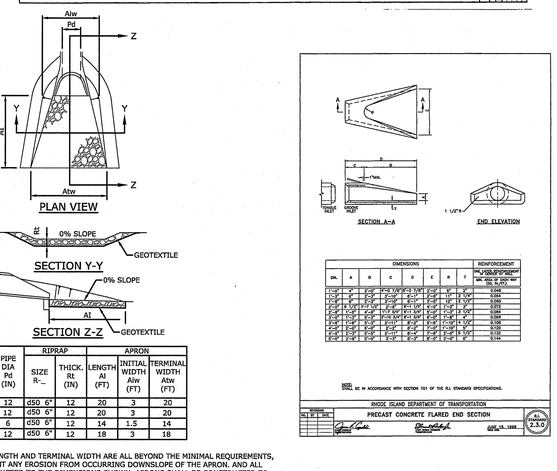
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
STANDARD HEADWALLS FOR MULTIPLE 3'-6" TO 7'-0" PIPE CULVERTS
JUNE 15, 1998
R.I. STANDARD 2.2.04



SCHEMATIC - CONTRACTOR TO SUBMIT SHOP DRAWING OF FINAL DESIGN

AC CONDUIT TRENCH DETAIL

NOT TO SCALE



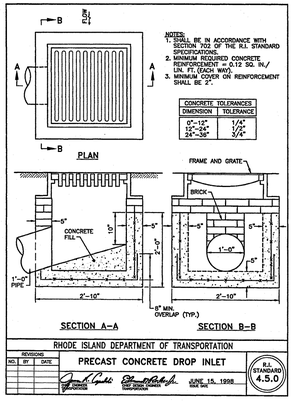
OUTLET NO.	PIPE DIA Pd (IN)	RIPRAP SIZE R-_	RIPRAP THICK. Rt (IN)	APRON LENGTH Al (FT)	APRON INITIAL WIDTH Alw (FT)	APRON TERMINAL WIDTH Atw (FT)
BASIN 1	12	d50 6"	12	20	3	20
BASIN 2	12	d50 6"	12	20	3	20
BASIN 3	6	d50 6"	12	14	1.5	14
EW-4.3	12	d50 6"	12	18	3	18

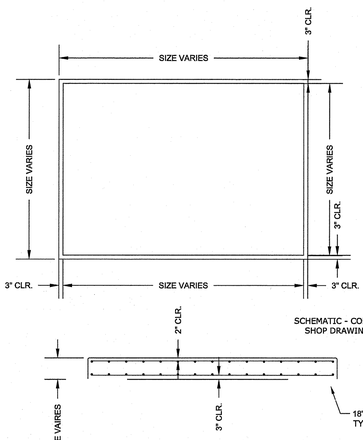
NOTES:

THE ROCK SIZE, APRON LENGTH AND TERMINAL WIDTH ARE ALL BEYOND THE MINIMAL REQUIREMENTS, AS AS TO FURTHER PREVENT ANY EROSION FROM OCCURRING DOWNSLOPE OF THE APRON. AND ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. APRONS SHALL BE CONSTRUCTED TO RHODE ISLAND STATE REGULATIONS.

RIP-RAP APRON DETAIL

NOT TO SCALE



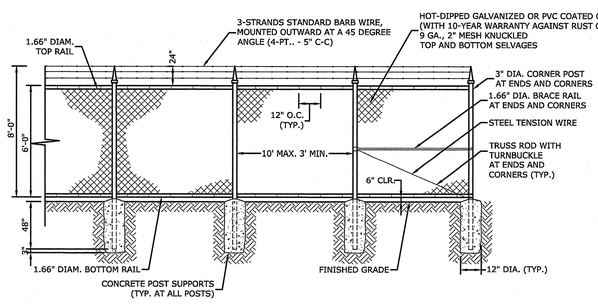


SCHEMATIC - CONTRACTOR TO SUBMIT SHOP DRAWING OF FINAL DESIGN

NOTES:
1. CONCRETE TO BE 4000 PSI @ 28 DAYS.
2. MAX. SLUMP: 4 INCHES (TO BE MEASURED PRIOR TO PUMPING AND ADDITION OF ADMIXTURES.)
3. REINFORCING SHALL BE ASTM A615 GR. 60 (60 KSI YIELD.)
4. USE ¾" CHAMFER ON ALL EXPOSED EDGES, UNLESS NOTED OTHERWISE.
5. FOUNDATIONS TO BE BACKFILLED & COMPACTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. ESTIMATED CONCRETE QUALITY IS FOR OWNER'S ASSET MANAGEMENT PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR
7. DETERMINING QUANTITIES FOR CONSTRUCTION & BID PURPOSES.
8. EQUIPMENT ANCHORAGE TO BE HILTI ADHESIVE ANCHOR, DESIGNED UPON RECEIPT OF CERTIFIED EQUIPMENT DRAWINGS.

TYPICAL INVERTER PAD DETAIL

NOT TO SCALE



NOTES

1. FENCING SHALL BE INSTALLED WITHIN THE LIMITS OF APPROVED CLEARING AND CONTRACTOR SHALL PERFORM NO ADDITIONAL CLEARING TO ACCOMMODATE FENCE INSTALLATION.
2. CONTRACTOR SHALL COMPLETE THE INSTALLATION OF THE FENCE AND GATE (WITH LOCKS) NOT LATER THAN THE FIRST ARRIVAL OF ANY EQUIPMENT AND/OR MATERIALS AT THE SITE TO ENSURE SITE AND EQUIPMENT SECURITY. IF FENCE IS NOT INSTALLED THEN, CONTRACTOR HAS THE SOLE RESPONSIBILITY OF SECURING EQUIPMENT AND MATERIALS BY OTHER MEANS AND FOR REPLACING ANY EQUIPMENT AND MATERIALS IF LOST, STOLEN OR DAMAGED. CONTRACTOR SHALL MAINTAIN FENCE UNTIL SUBSTANTIAL COMPLETION.

CHAIN LINK FENCE DETAIL

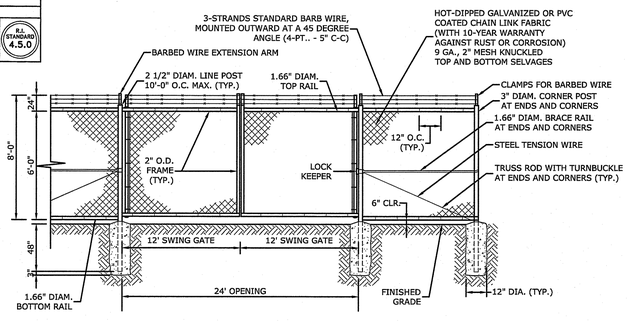
NOT TO SCALE

NOTES

1. SIGNS SHALL CONFORM TO THE 2013 OSHA AND ANSI REQUIREMENTS.
2. SIGNS SHALL BE 20" WIDE BY 14" HIGH.
3. SIGNS SHALL HAVE A MOUNTING HEIGHT OF BETWEEN 45 TO 66 INCHES.
4. SIGN PANELS SHALL BE 10 GAUGE ALUMINUM WITH HIGH VISIBILITY REFLECTIVE SHEETING.

DANGER SIGNS

NOT TO SCALE



24' VEHICULAR GATE DETAIL

NOT TO SCALE

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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 MAR 21 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

NOT FOR CONSTRUCTION

NO.	REVISION	DATE
7	REVISIONS PER RIDEM COMMENTS	01/28/2019
6	REVISED ARRAY LAYOUT	12/05/2018
5	EROSION CONTROL PLAN REVISIONS	11/13/2018
4	REVISIONS PER OWNER	10/18/2018
3	REVISIONS PER OWNER	10/02/2018
2	REVISIONS PER TOWN COMMENTS	9/04/2018
1	REVISIONS PER OWNER	7/10/2018

Property Owners:
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MARTIN, FL 33455
WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896
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www.dlpreis-eng.com

Applicant
TPE RHODE ISLAND SOLAR HOLDINGS2, LLC
999 18th STREET, SUITE 3000
DENVER, CO 80202
TurningPoint Energy

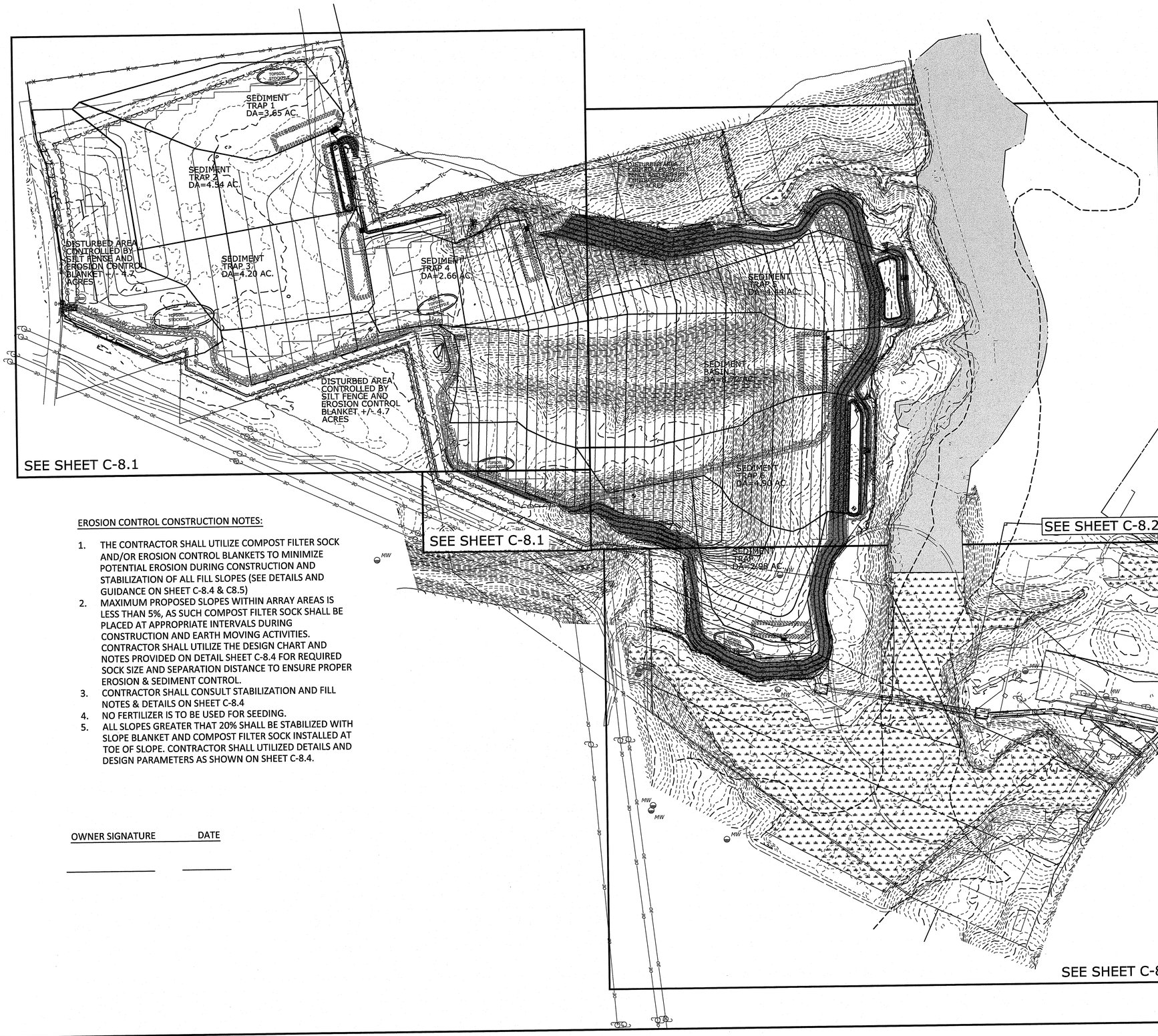
Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
CONSTRUCTION DETAILS

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
02/04/19

SCALE:	AS SHOWN
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-7

Xrefs: ...\Dwt\Nsmh Smithfield-01_wTB.dwg
Images: ...\Images\Ref\Section Trench detail.GIF ,2170'E Rhode Island Solar Holdings\North Smithfield - Kingl_Incoming\20180727\99 From Audra\20647-001-Newmap-20180423_8.29fd.jpg ,2170'E Rhode Island Solar Holdings\North Smithfield - King\Stormwater\Image 09_04.JPG ,\Images\TurningPoint Energy3.jpg



EROSION CONTROL CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL UTILIZE COMPOST FILTER SOCK AND/OR EROSION CONTROL BLANKETS TO MINIMIZE POTENTIAL EROSION DURING CONSTRUCTION AND STABILIZATION OF ALL FILL SLOPES (SEE DETAILS AND GUIDANCE ON SHEET C-8.4 & C8.5)
2. MAXIMUM PROPOSED SLOPES WITHIN ARRAY AREAS IS LESS THAN 5%, AS SUCH COMPOST FILTER SOCK SHALL BE PLACED AT APPROPRIATE INTERVALS DURING CONSTRUCTION AND EARTH MOVING ACTIVITIES. CONTRACTOR SHALL UTILIZE THE DESIGN CHART AND NOTES PROVIDED ON DETAIL SHEET C-8.4 FOR REQUIRED SOCK SIZE AND SEPARATION DISTANCE TO ENSURE PROPER EROSION & SEDIMENT CONTROL.
3. CONTRACTOR SHALL CONSULT STABILIZATION AND FILL NOTES & DETAILS ON SHEET C-8.4
4. NO FERTILIZER IS TO BE USED FOR SEEDING.
5. ALL SLOPES GREATER THAT 20% SHALL BE STABILIZED WITH SLOPE BLANKET AND COMPOST FILTER SOCK INSTALLED AT TOE OF SLOPE. CONTRACTOR SHALL UTILIZED DETAILS AND DESIGN PARAMETERS AS SHOWN ON SHEET C-8.4.

OWNER SIGNATURE DATE

SOILS INFORMATION

AfA, 0 TO 3 PERCENT SLOPES AWAGWAM FINE SANDY LOAM

CtB, 3 TO 8 PERCENT SLOPES CANTON AND CHARLTON FINE SANDY LOAMS

CeC, 3 TO 15 PERCENT SLOPES CANTON AND CHARLTON FINE SANDY LOAMS

CtD, 15 TO 25 PERCENT SLOPES CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS

Du, DUMPS

FeA, 0 TO 1 PERCENT SLOPES FREETOWN MUCK

HkA, 0 TO 3 PERCENT SLOPES HINCKLEY LOAMY SAND

HkC, 8 TO 15 PERCENT SLOPES HINCKLEY LOAMY SAND

HkD, 15 TO 25 PERCENT SLOPES HINCKLEY LOAMY SAND

MmB, 3 TO 8 PERCENT SLOPES MERRIMAC FINE

MU, 0 TO 8 PERCENT SLOPES MERRIMAC-URBAN LAND COMPLEX

Pg, PITS, GRAVEL

Rf, 0 TO 8 PERCENT SLOPES RIDGEBURY, LEICESTER AND WHITMAN SOILS, EXTREMELY STONEY

Sb, 0 TO 3 PERCENT SLOPES SCARBORO MUCKY FINE SANDY LOAM

Sb, SUDBURY SANDY LOAM

StB, 3 TO 8 PERCENT SLOPES SUTTON FINE SANDY LOAM

SwA, 0 TO 1 PERCENT SLOPES SWANSEA MUCK

W, WATER

Wa, 0 TO 3 PERCENT SLOPES WALPOLE SANDY LOAM

WgA, 0 TO 3 PERCENT SLOPES WINDSOR LOAMY SAND

WgB, 3 TO 8 PERCENT SLOPES WINDSOR LOAMY SAND

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE

LEGEND — PROPOSED E&S CONTROL PLAN FEATURES

- STABILIZED ROCK CONSTRUCTION ENTRANCE
- SOIL MATERIAL STOCKPILE
- SF SF STANDARD SILT FENCE (18" HIGH)
- SS SS SILT SOCKS
- RIPRAP
- EROSION CONTROL MATTING
- LoD LoD LoD LoD LIMIT OF DISTURBANCE

NOT FOR CONSTRUCTION

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MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

WALLACE AND DOROTHY STONE
55 CIDAR MILL ROAD
NORTH SMITHFIELD, RI 02896

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DENVER, CO 80202

TurningPoint Energy

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 21 2019 FILE # 18-0314
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
EROSION & SEDIMENTATION CONTROL PLAN - OVERALL

GRAPHIC SCALE
150' 75' 0 150'
SCALE IN FEET
1" = 150'

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
02/04/19

SCALE:	1" = 150'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-8

XRefs: ...\Work\North Smithfield\C_prTE.dwg, ...\Work\North Smithfield\c04_wtSTE.dwg, ...\Work\North Smithfield\c05_wtDIST.dwg, ...\Work\North Smithfield\c07_wtSS.dwg, ...\Work\North Smithfield\c08_wtGRADE.dwg
Images: ...\TPE Rhode Island Solar Holdings\North Smithfield - King_Incoming\20181107 From Audra\2647-001-Hearmap-20180423_0.200.jpg ...\TPE Rhode Island Solar Holdings\North Smithfield - King\Stormwater\Image 09_04.JPG ...\Images\TurningPoint Energy3.jpg ...\TPE Rhode Island Solar Holdings\North Smithfield - King\SOURCE FILES\tmx frm esp\4400712010G5.png

...\TPE Rhode Island Solar Holdings\North Smithfield - King\Civil\Site Plans\A - ALT\Grading & Stabilization Control Plans\A - ALT Grading & Stabilization Control Plan.dwg, 02-27-2019 3:53:43 PM, EST, dlaw

SEDIMENT TRAP 1
DA=3.65 AC.

SEDIMENT TRAP 2
DA=4.54 AC.

SEDIMENT TRAP 3
DA=4.20 AC.

SEDIMENT TRAP 4
DA=2.66 AC.

DISTURBED AREA CONTROLLED BY SILT FENCE AND EROSION CONTROL BLANKET +/- 4.7 ACRES

DISTURBED AREA CONTROLLED BY SILT FENCE AND EROSION CONTROL BLANKET +/- 4.7 ACRES

TOPSOIL STOCKPILE

CONCRETE WASHOUT

ROCK CONSTRUCTION ENTRANCE

RIP RAP FILTER ROCK

OVERFLOW WEIR 312.0 LOCATION, SEE SEDIMENT TRAP DETAIL

OVERFLOW WEIR 310' LOCATION, SEE SEDIMENT TRAP DETAIL

OVERFLOW WEIR 312 LOCATION, SEE SEDIMENT TRAP DETAIL

D50 6" TO BE PLACED BASIN SIDE SLOPE, MIN. THICKNESS 14"

SEDIMENT TRAP #2 WILL BE CONVERTED TO PERMANENT BASIN AFTER THE UPSLOPE AREA IS STABILIZED)

SEDIMENT TRAP FLOW PATH

SEDIMENT TRAP#1 SEE DETAIL

TRAPEZOIDAL SHALLOW SWALE

SEDIMENT TRAP#3 SEE DETAIL

SEDIMENT TRAP#4 SEE DETAIL

COMPOST FILTER SOCK SHALL REFER TO DETAIL (C-8.4) FOR

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

WgA
WgB
HkD

FORMERLY: OLD OXFORD RD - CURRENTLY: PRIVATE RD - QUIET TITLE C.A. NO. PC-2015-1502

MATCHLINE (THIS SHEET)

MATCHLINE (SEE SHEET C-8.2)

MATCHLINE (SEE SHEET C-8.2)

MATCHLINE (THIS SHEET)

PROPOSED ACCESS ROAD

PROPOSED FENCE

PROPOSED EROSION CONTROL BLANKET

PROPOSED SILT FENCE

PROPOSED TREE LINE

EXISTING GAS LINE

GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

N

LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
- OPEN WATER
- WETLAND SETBACK LINE
- UTILITY POLE

LEGEND — PROPOSED E&S CONTROL PLAN FEATURES

- STABILIZED ROCK CONSTRUCTION ENTRANCE
- SOIL MATERIAL STOCKPILE
- SF SF STANDARD SILT FENCE (18" HIGH)
- SS SS SILT SOCKS
- RIPRAP
- EROSION CONTROL MATTING
- LoD LoD LoD LoD LIMIT OF DISTURBANCE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THIS LETTER OF APPROVAL
DATE: NOV 22 2018 FILE # 18-0284
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Suzanne D. Lubnick

NOT FOR CONSTRUCTION

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Applicant
TPE RHODE ISLAND SOLAR HOLDINGS2, LLC
999 18th STREET, SUITE 3000
DENVER, CO 80202
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
EROSION & SEDIMENTATION CONTROL PLAN - WEST

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 60'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-8.1

Xrefs: ...\Work\North Smithfield\07_xrTE.dwg, ...\Work\North Smithfield\04_xrSITE.dwg, ...\Work\North Smithfield\4x43_xrE07.dwg, ...\Work\North Smithfield\07_xrSS.dwg, ...\Work\North Smithfield\06_xrGRADE.dwg
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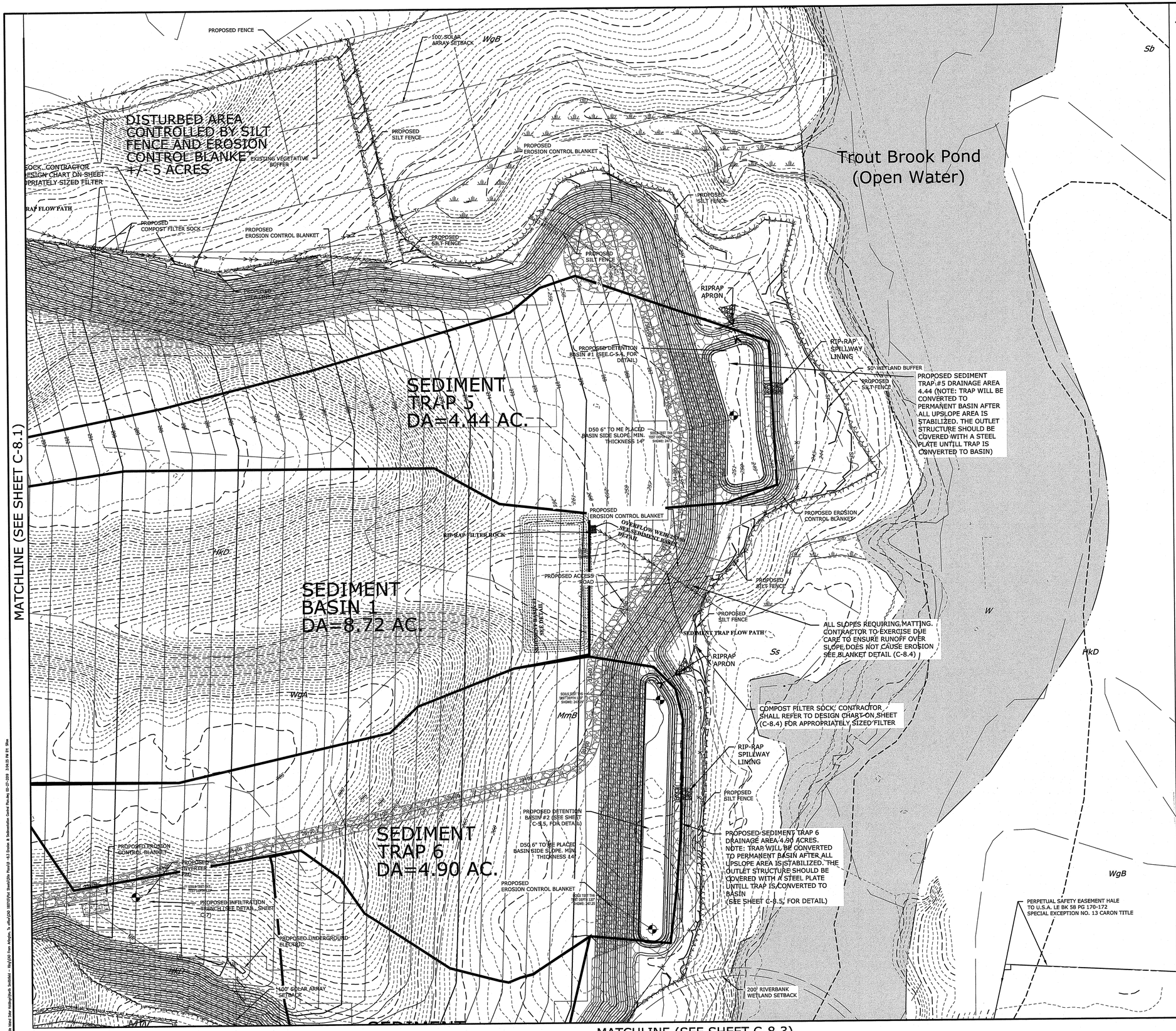

SOILS INFORMATION

AfA, 0 TO 3 PERCENT SLOPES AWAGWAM FINE SANDY LOAM

CdB, 3 TO 8 PERCENT SLOPES CANTON AND CHARLTON FINE SANDY LOAMS

CeC, 3 TO 15 PERCENT SLOPES CANTON AND CHARLTON FINE SANDY LOAMS

ChD, 15 TO 25 PERCENT SLOPES CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS

Du, DUMPS

FeA, 0 TO 1 PERCENT SLOPES FREETOWN MUCK

HkA, 0 TO 3 PERCENT SLOPES HINCKLEY LOAMY SAND

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MmB, 3 TO 8 PERCENT SLOPES MERRIMAC FINE

MU, 0 TO 8 PERCENT SLOPES MERRIMAC-URBAN LAND COMPLEX

Pg, PITS, GRAVEL

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Sb, 0 TO 3 PERCENT SLOPES SCARBORO MUCKY FINE SANDY LOAM

Ss, SUDBURY SANDY LOAM

StB, 3 TO 8 PERCENT SLOPES SUTTON FINE SANDY LOAM

SwA, 0 TO 1 PERCENT SLOPES SWANSEA MUCK

W, WATER

Wb, 0 TO 3 PERCENT SLOPES WALPOLE SANDY LOAM

WgA, 0 TO 3 PERCENT SLOPES WINDSOR LOAMY SAND

WgB, 3 TO 8 PERCENT SLOPES WINDSOR LOAMY SAND

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPLICATION NO. 18-0314
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED MAR 21 2019
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LEGEND — EXISTING FEATURES

- PROPERTY BOUNDARY LINE
- RIVERBANK WETLAND BOUNDARY
- EASEMENT
- 420 INDEX CONTOUR LINE
- 421 INTERMEDIATE CONTOUR LINE
- WETLAND
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- WETLAND SETBACK LINE
- UTILITY POLE

LEGEND — PROPOSED E&S CONTROL PLAN FEATURES

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- RIPRAP
- EROSION CONTROL MATTING
- LoD LoD LoD LoD LIMIT OF DISTURBANCE

NOT FOR CONSTRUCTION

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DENVER, CO 80202
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

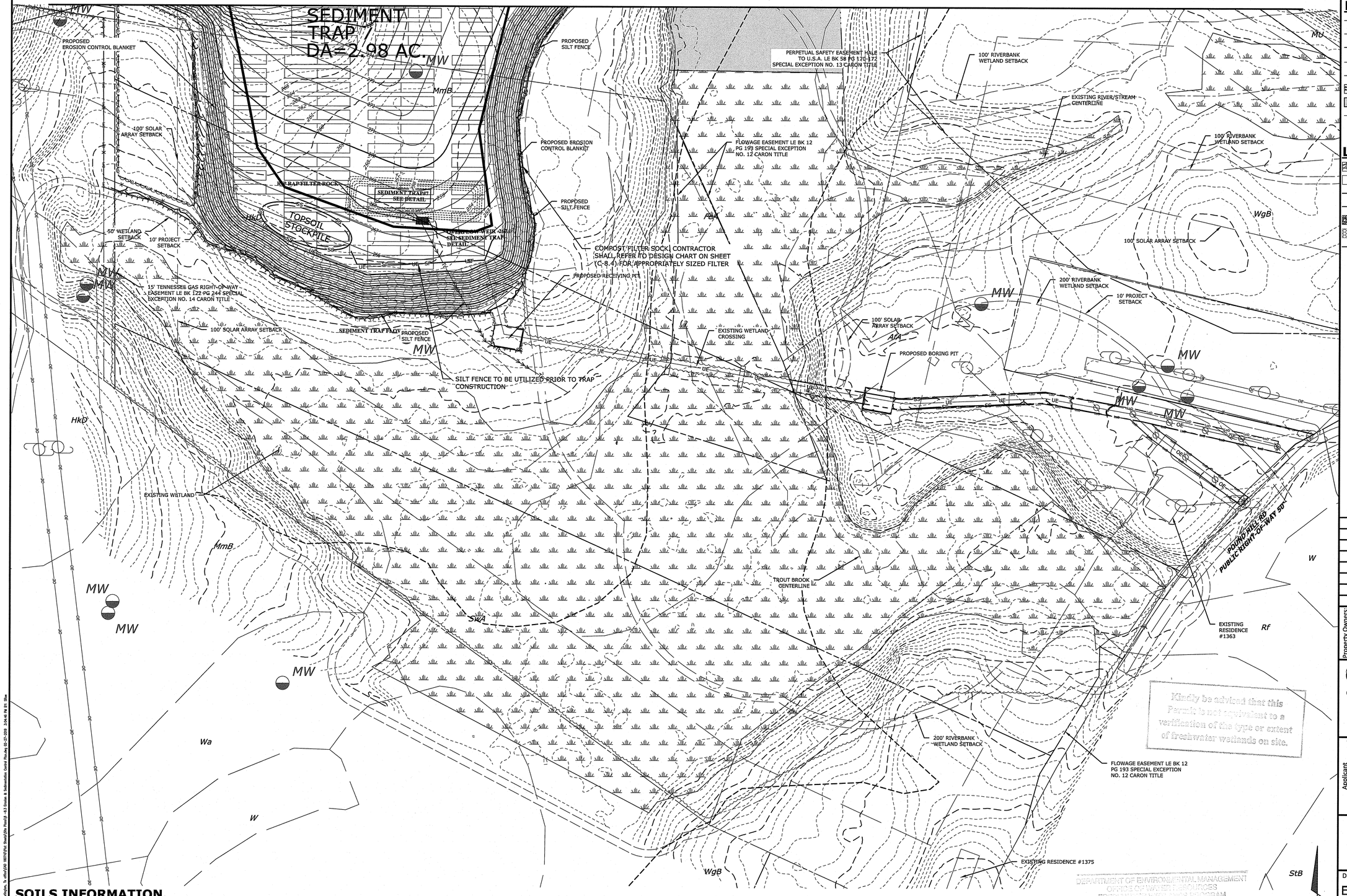
DRAWING TITLE:
EROSION & SEDIMENTATION CONTROL PLAN - EAST

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
01/04/19

SCALE:	1" = 60'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-8.2

XRefs:
Images:

MATCHLINE (SEE SHEET C-8.2)



SOILS INFORMATION

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- *CeC, 3 TO 15 PERCENT SLOPES, CANTON AND CHARLTON FINE SANDY LOAMS*
- *ChD, 15 TO 25 PERCENT SLOPES, CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS*
- *Du, DUMPS*
- *FeA, 0 TO 1 PERCENT SLOPES, FREETOWN MUCK*
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- *StB, 3 TO 8 PERCENT SLOPES, SUTTON FINE SANDY LOAM*
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- *W, WATER*
- *Wa, 0 TO 3 PERCENT SLOPES, WALPOLE SANDY LOAM*
- *WgA, 0 TO 3 PERCENT SLOPES, WINDSOR LOAMY SAND*
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GRAPHIC SCALE
60' 30' 0 60'
SCALE IN FEET
1" = 60'

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- LOD LOD LOD LOD LIMIT OF DISTURBANCE

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Applicant
TPE RHODE ISLAND SOLAR HOLDINGS2, LLC
999 18th STREET, SUITE 3000
DENVER, CO 80202
TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

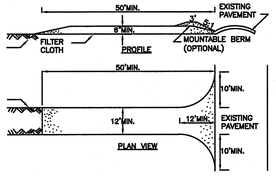
DRAWING TITLE:
EROSION & SEDIMENTATION CONTROL PLAN - SOUTH

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE:	1" = 60'
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C-8.3

01/04/19

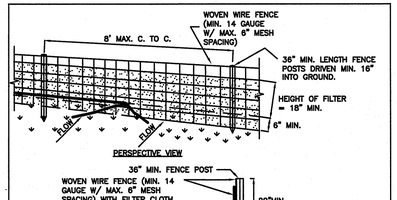
Xrefs: ...\Work\North Smithfield\01_xrTB.dwg ...\Work\North Smithfield\04_xrDTE.dwg ...\Work\North Smithfield\03_xrCRF.dwg ...\Work\North Smithfield\07_xrEB.dwg ...\Work\North Smithfield\02_xrGRADE.dwg
Images: J:\TPE Rhode Island Solar Holdings\North Smithfield - King_Incoming\20180727\20 From Audio\DSH-001-Hearings-20180423_5.2MB.jpg J:\TPE Rhode Island Solar Holdings\North Smithfield - King\Stormwater\Image 09_04.JPG ..\Images\TurningPoint Energy3.jpg J:\TPE Rhode Island Solar Holdings\North Smithfield - King\SOURCE FILES\Items from maps\4600720102DG.png



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE – USE 1–4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY–FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CON–STRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

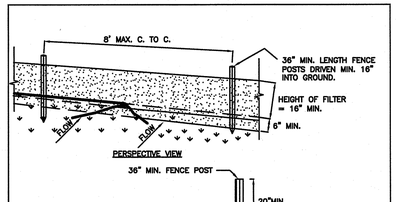
STABILIZED CONSTRUCTION ACCESS



CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER–LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL MEET THE MINIMUM REQUIREMENTS SHOWN.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

REINFORCED SILT FENCE



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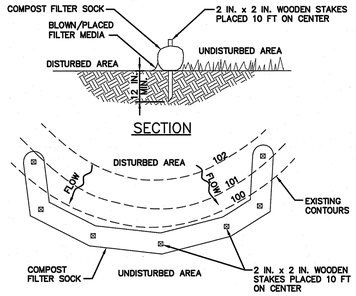
3. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE



NOTES:

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

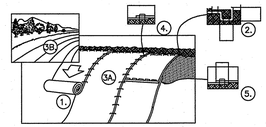
UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

COMPOST FILTER SOCKS
RECOMMENDED DESIGN PRACTICE FOR COMPOST FILTER DEVICES IS THAT DRAINAGE AREAS DO NOT EXCEED 0.25 ACRE PER 100 FEET OF DEVICE LENGTH AND FLOW DOES NOT EXCEED ONE CUBIC FOOT PER SECOND (EPA, 2006).
COMPOST FILTER SOCKS MAY BE USED, SUBJECT TO THE SLOPE CONDITIONS LISTED IN FIGURE 2.
FIGURE 2: RECOMMENDED SPACING AND DIAMETER REQUIREMENTS FOR COMPOST FILTER SOCKS
CONTRACTOR SHALL USE APPROPRIATE DIAMETER COMPOST FILTER SOCK BASED ON THE FOLLOWING CHART:

Figure 2: Recommended Spacing and Diameter Requirements for Compost Filter Socks

Slope %	Maximum slope length above compost filter sock in ft (m) Diameter of compost filter sock required 8-inch (200-mm)	12-inch (300-mm)	18-inch (450-mm)	24-inch (600-mm)
2 (or less)	300 (90)	375 (110)	500 (150)	650 (200)
5	200 (60)	250 (75)	275 (85)	325 (100)
10	100 (30)	125 (35)	150 (45)	200 (60)
15	70 (20)	85 (25)	100 (30)	100 (30)
20	50 (15)	65 (20)	70 (20)	130 (40)
25	40 (12)	50 (15)	55 (16)	100 (30)
30	30 (9)	40 (12)	45 (13)	65 (20)
35	30 (9)	40 (12)	45 (13)	55 (16)
40	30 (9)	40 (12)	45 (13)	50 (15)
45	20 (6)	25 (8)	30 (9)	40 (12)
50	20 (6)	25 (8)	30 (9)	35 (10)

- Compost filter socks can be used on steeper slopes with faster flows if they are spaced more closely, stacked beside and/or on top of each other, made in larger diameters, or used in combination with other stormwater BMPs.

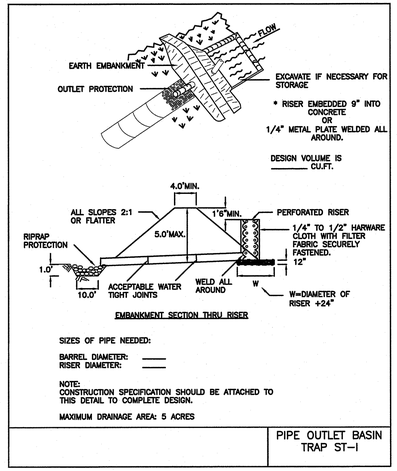


1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL–O–SEED DO NOT SEED PREPARED AREA. CELL–O–SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP–SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"–5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.

NOTE:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
FOR SLOPES GREAT THAN TEN PERCENT (20%).

EROSION CONTROL BLANKET DETAIL
SCALE: NONE

NORTH AMERICAN GREEN C125 OR EQUAL
CONTRACTOR SHALL ENSURE ANY SUBSTITUTE PRODUCT MEETS SITE SPECIFIC REQUIREMENTS.



SIZES OF PIPE NEEDED:

BARREL DIAMETER: ____
RISER DIAMETER: ____

NOTE:
CONSTRUCTION SPECIFICATION SHOULD BE ATTACHED TO THIS DETAIL TO COMPLETE DESIGN.

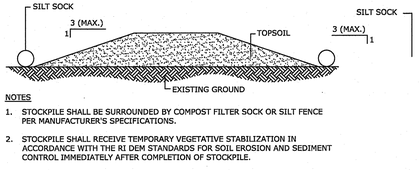
MAXIMUM DRAINAGE AREA: 5 ACRES

PIPE OUTLET BASIN TRAP ST–I

CONSTRUCTION SPECIFICATIONS

1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER–SIZED STONES, ROCKS, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
3. VOLUME OF SEDIMENT STORAGE SHALL BE 3600 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE.
4. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND STABILIZED.
5. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
6. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED.
7. THE STRUCTURE SHALL BE REMOVED AND AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
8. ALL FILL SLOPES SHALL BE 2:1 OR FLATTER; CUT SLOPES 1:1 OR FLATTER.
9. ALL PIPE CONNECTIONS SHALL BE WATERTIGHT.
10. THE TOP 2/3 OF THE RISER SHALL BE PERFORATED WITH ONE (1) INCH DIAMETER HOLES OR SLITS SPACED SIX (6) INCHES VERTICALLY AND HORIZONTALLY AND PLACED IN THE CONCAVE PORTION OF PIPE. NO HOLES WILL BE ALLOWED WITHIN SIX (6) INCHES OF THE HORIZONTAL BARREL.
11. THE RISER SHALL BE WRAPPED WITH 1/4 TO 1/2 INCH HARDWARE CLOTH WIRE THEN WRAPPED WITH FILTER CLOTH (HAVING AN EQUIVALENT SIEVE SIZE OF 40–80). THE FILTER CLOTH SHALL EXTEND SIX (6) INCHES ABOVE THE HIGHEST HOLE AND SIX (6) INCHES BELOW THE LOWEST HOLE. WHERE ENDS OF THE FILTER CLOTH COME TOGETHER, THEY SHALL BE OVER–LAPPED, FOLDED AND STAPLED TO PREVENT BYPASS.
12. STRAPS OR CONNECTING BANDS SHALL BE USED TO HOLD THE FILTER CLOTH AND WIRE FABRIC IN PLACE. THEY SHALL BE PLACED AT THE TOP AND BOTTOM OF THE CLOTH.
13. FILL MATERIAL AROUND THE PIPE SPILLWAY SHALL BE HAND COMPACTED IN FOUR (4) INCH LAYERS. A MINIMUM OF TWO (2) FEET OF HAND COMPACTED BACKFILL SHALL BE PLACED OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT.
14. THE RISER SHALL BE ANCHORED WITH EITHER A CONCRETE BASE OR STEEL PLATE BASE TO PREVENT FLOTATION. FOR CONCRETE BASE THE DEPTH SHALL BE TWELVE (12) INCHES WITH THE RISER EMBEDDED NINE (9) INCHES. A 1/4 INCH MINIMUM THICKNESS STEEL PLATE SHALL BE ATTACHED TO THE RISER BY A CONTINUOUS WELD AROUND THE BOTTOM TO FORM A WATERTIGHT CONNECTION AND THEN PLACE TWO (2) FEET OF STONE, GRAVEL, OR TAMPED EARTH ON THE PLATE.

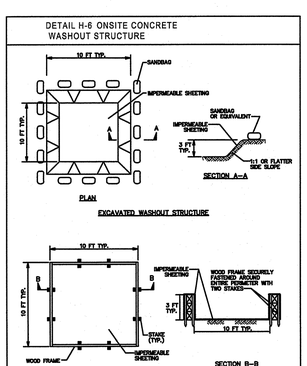
PIPE OUTLET SEDIMENT BASIN ST–I



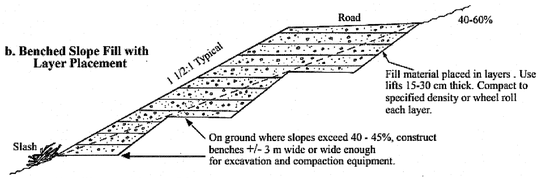
NOTES

1. STOCKPILE SHALL BE SURROUNDED BY COMPOST FILTER SOCK OR SILT FENCE PER MANUFACTURER'S SPECIFICATIONS.
2. STOCKPILE SHALL RECEIVE TEMPORARY VEGETATIVE STABILIZATION IN ACCORDANCE WITH THE RI DEM STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IMMEDIATELY AFTER COMPLETION OF STOCKPILE.

TOP SOIL STOCKPILE DETAIL
SCALE: NONE



b. Benched Slope Fill with Layer Placement



BENCHED SLOPE FILL LAYER PLACEMENT
SCALE: NONE

EROSION CONTROL STABILIZATION NOTES
1. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
2. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES, OR 6 TO 12 INCHES ON COMPACTED SOILS, PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
3. UPON TEMPORARY CESSATION OF AN EARTH DISTURBANCE OR ANY STAGE OR PHASE OF AN ACTIVITY WHERE A CESSATION OF EARTH DISTURBANCE ACTIVITIES EXCEEDS 4 DAYS, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION PENDING FUTURE EARTH DISTURBANCE ACTIVITIES.
4. STRAW MULCH MUST BE APPLIED AT RATES OF AT LEAST 3.0 TONS PER ACRE. STRAW MULCH SHOULD BE ANCHORED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN.
5. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED.
6. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER, WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS ACCORDING TO THE STANDARDS OF THIS PLAN.
7. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON–GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
8. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON–VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
9. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY RIDEM.

STANDARD E&S PLAN NOTES
1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT (E&S) PLAN. A COPY OF THE APPROVED DRAWINGS.
2. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL.
3. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BEST MANAGEMENT PRACTICES (BMPS) SPECIFIED BY THE CONSTRUCTION SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
4. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMITOF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
5. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BMPS TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION
6. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS. DISCHARGE POINTS SHOULD BE ESTABLISHED TO PROVIDE FOR MAXIMUM DISTANCE TO ACTIVE WATERWAYS.
7. UNTIL THE SITE IS STABILIZED, ALL E&S BMPS MUST BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL E&S BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
8. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
9. ALL EXCAVATION FOR UTILITY LINE INSTALLATION SHALL BE LIMITED TO THE AMOUNT THAT CAN BE EXCAVATED, INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY. ALL EXCAVATED MATERIAL SHALL BE DEPOSITED ON THE UPSLOPE SIDE OF THE TRENCH.
10. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS
11. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.

FILL NOTES:
CLEAN FILL DUE TO ANALYTICAL TESTING. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
1. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 30 CM OR 12 INCHES IN THICKNESS.
2. COMPACT FILL SLOPES USE SPECIFIC COMPACTION PROCEDURES SUCH AS WHEEL ROLLING, LAYER PLACEMENT AND USE OF SPECIFIC COMPACTION MATERIAL.
3. SLOPES SHALL BE TEMPORARILY STABILIZED WITH TEMPORARY SLOPE MATTING AND COMPOST FILTER SOCK UNTIL VEGETATION IS PERMANENTLY ESTABLISHED. (SEE DETAILS AND DESIGN GUIDANCE THIS SHEET)
4. FILL ACTIVITY SHALL BE A:COMPLETED DURING SPRING SUMMER AS TO QUICKLY ESTABLISH VEGETATION OR B: EROSION CONTROL BLANKET SHALL BE UTILIZED TO CONTROL EROSION UNTIL VEGETATION CAN BE ESTABLISHED.
5. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
6. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
7. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.

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 MAR 21 2019 FILE # 18-0314
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wenck

NOT FOR CONSTRUCTION

NO.	REVISION	DATE
7	REVISIONS PER RIDEM COMMENTS	01/28/2019
6	REVISED ARRAY LAYOUT	12/05/2018
5	EROSION CONTROL PLAN REVISIONS	11/13/2018
4	REVISIONS PER OWNER	10/18/2018
3	REVISIONS PER OWNER	10/02/2018
2	REVISIONS PER TOWN COMMENTS	9/04/2018
1	REVISIONS PER OWNER	7/10/2018

Property Owners:
WILLIAM HORTON KING
6201 SE MONTICELLO TERRACE
MARTIN, FL 33455

ALFRED M CARON
PO BOX 869
SLATERSVILLE, RI 02876

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Applicant
TPE RHODE ISLAND SOLAR HOLDINGS2, LLC
999 18th STREET, SUITE 3000
DENVER, CO 80202

TurningPoint Energy

Town of North Smithfield
1363 Pound Hill Road,
Off Old Oxford Road
Town of North Smithfield, RI 02896

DRAWING TITLE:
EROSION & SEDIMENTATION CONTROL DETAILS

STEPHEN M. LOSS
No. 11863
REGISTERED PROFESSIONAL ENGINEER
CIVIL
05/24/19

SCALE:	AS SHOWN
DATE:	07/09/2018
DRAWN BY:	JWV
CHECKED BY:	SML
PROJECT:	288843.0000
DRAWING NO.:	C–8.4

Xrefs: L:\Solar\North Smithfield\01_xr18.dwg
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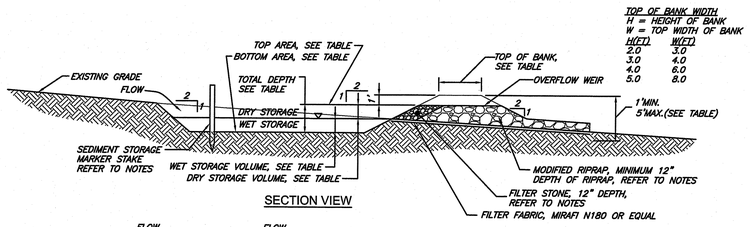
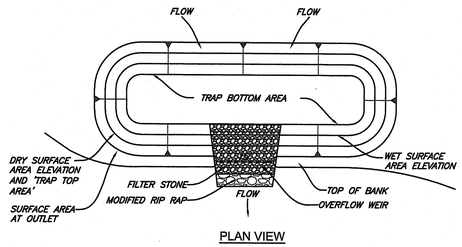
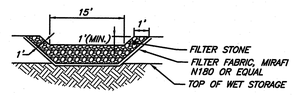


SECTION VIEW



PLAN VIEW



OVERFLOW WEIR SECTION

TEMPORARY SEDIMENT TRAP DETAIL

NOT TO SCALE

SEDIMENT TRAP DATA	TRAP 1	TRAP 2	Trap 3	TRAP 4	TRAP 5	TRAP 6	TRAP 7
CONTRIBUTORY AREA AC.	3.65	4.54	4.20	2.66	4.44	4.90	2.98
WET STORAGE DEPTH, FT	1.0	1.0	1.0	1.0	1.0	1.0	1.0
DRY STORAGE DEPTH, FT	1.0	1.0	1.0	1.0	1.0	1.0	1.0
TOTAL DEPTH (WET/DRY), FT	2.0	2.0	2.0	2.0	2.0	2.0	2.0
TRAP BOTTOM AREA, SQ.FT.	6752	8103	8640	4470	9667	9466	4918
TRAP TOP AREA, SQ.FT.	9709	11189	11811	6267	12604	15224	6882

SEDIMENT TRAP CALCULATION

Trap	Drainage Area	Required Storage Volume	Required Wet Storage	Provided Wet Storage	Bottom Surface Elevation of Trap	Surface Area provided at Bottom of	Elevation at which Wet Storage is	Surface Area provided at Wier	Required Dry Storage	Provided Dry Storage	Elevation at which Wet Storage is Provided
	AC.	CF	CF	CF	FT	SF	FT	SF	CF	CF	FT
1	3.65	13206	6603	7471	310	6752	311	9709	6603	8949	312
2	4.54	16426	8213	8857.5	308	8103	309	11189	8213	10400.5	310
3	4.2	15196	7598	9424.5	310	8640	311	11811	7598	11010	312
4	2.66	9624	4812	5060.5	297	4470	298	6266.5	4812	6266.5	299
5	4.44	16064	8032	10388	250	9667	251	12604	8032	11856.5	252
6	4.9	17728	8864	11209.5	249	9466	250	15224	8864	14088.5	251
7	2.98	10782	5391	5415	265	4918	266	6882	5391	6397	267

Equations:

Maximum Drainage Area to Trap= 5 Ac
Required Storage Volume = 134 CY/AC
Required Wet Storage Volume= 1/2(Rq. Storage Volume)
Required Dry Storage Volume= 1/2(Rq. Storage Volume)

GENERAL NOTES:

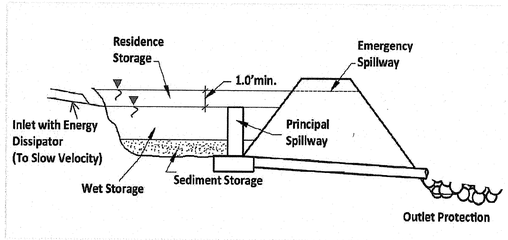
1. THE TEMPORARY SEDIMENT TRAP SHALL MEET ALL REQUIREMENTS FOR TEMPORARY SEDIMENT TRAPS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST REVISION) SECTION SIX: SEDIMENT CONTROL MEASURES.
2. THE TEMPORARY SEDIMENT TRAP SHALL HAVE AN INITIAL STORAGE VOLUME OF 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA.
3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
4. THE OUTLET SHALL BE LOCATED AT THE MOST DISTANT HYDRAULIC POINT FROM THE INLET.
5. THE OUTLET CONSISTS OF A PERVIOUS STONE OUTLET WITH A CORE OF MODIFIED RIP RAP AND FACED ON THE UPSTREAM SIDE WITH STONE FILTER.
6. TEMPORARY SEDIMENT TRAPS MUST OUTLET ONTO STABILIZED GROUND.
7. MAXIMUM HEIGHT OF A TEMPORARY SEDIMENT TRAP EMBANKMENT IS LIMITED TO FIVE FEET.
8. SIDE SLOPES OF THE EMBANKMENT SHALL BE 2:1 OR FLATTER.
9. MODIFIED RIP RAP SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.10.03.2 AND BE R-4 GRADE RIPRAP.
10. FILTER STONE SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION

INSPECTION, MAINTENANCE AND REMOVAL REQUIREMENTS:

1. INSTALL SEDIMENT STORAGE STAKE WITH A MARKER AT ONE HALF OF THE WET STORAGE VOLUME.
2. INSPECT THE TEMPORARY SEDIMENT TRAP AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCHES OR GREATER.
3. CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT.
4. CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE.
5. WHEN SEDIMENTS HAVE ACCUMULATED TO ONE HALF THE MINIMUM REQUIRED VOLUME OF THE WET STORAGE, DEWATER THE TRAP AS NEEDED, REMOVE SEDIMENTS AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS.
6. DISPOSE OF THE SEDIMENT REMOVED FROM THE BASIN IN A SUITABLE AREA.
7. THE TEMPORARY SEDIMENT TRAP MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.

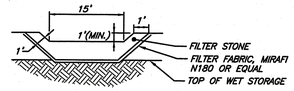
INSTALLATION NOTES:

1. CLEAR GRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA.
2. REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN 3 INCHES AND OTHER DEBRIS.
3. EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS.
4. USE ONLY FILL MATERIAL FOR THE EMBANKMENT THAT IS FREE FROM EXCESSIVE ORGANICS, DEBRIS, LARGE ROCKS (OVER SIX INCHES) OR OTHER UNSUITABLE MATERIALS. COMPACT THE EMBANKMENT IN 9 INCH LAYERS BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
5. STABILIZE THE EARTHEN EMBANKMENT USING ANY OF THE FOLLOWING MEASURES, SEEDING FOR TEMPORARY VEGETATION COVER, SEEDING FOR PERMANENT VEGETATIVE COVER, OR SLOPE PROTECTION, IMMEDIATELY AFTER INSTALLATION.



TEMPORARY SEDIMENT BASIN DETAIL

NOT TO SCALE



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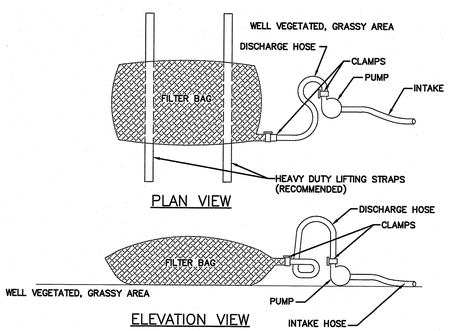

PLAN VIEW

ELEVATION VIEW

NOTES:

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

TO BE CONSTRUCTED WITH MATERIALS AND TECHNIQUES IN ACCORDANCE WITH THE EROSION AND SEDIMENT POLLUTION CONTROL MANUAL EFFECTIVE DATE MARCH 31, 2012 AS AMENDED.

DEWATERING DEVICE

NOT TO SCALE

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 LETTER OF APPROVAL
DATED MAR 21 2019 FILE # 18-0214
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Christin D. Jewsek

NOT FOR CONSTRUCTION

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