

SITE PLAN SET

FOR

PROPOSED RENEWABLE ENERGY INSTALLATION

PLAT MAP 5, LOT 479

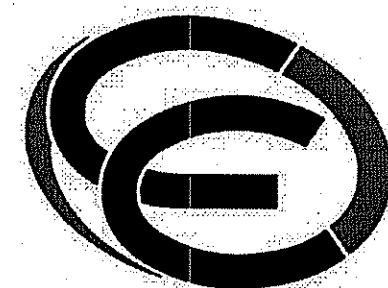
ZONING DISTRICT - M (MANUFACTURING)

**590 GREAT ROAD
BRANCH RIVER COMMERCE PARK
NORTH SMITHFIELD, RHODE ISLAND**

OWNER

PLAT MAP 5 LOT 479
SAM-MAN REALTY CORPORATION
 P.O. BOX 309
 235 SINGLETON STREET
 WOONSOCKET, RHODE ISLAND 02895

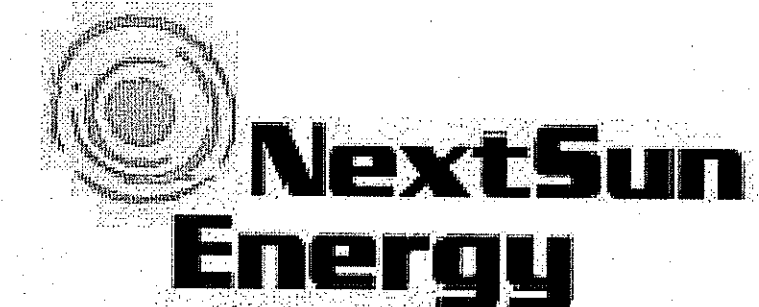
ENGINEERS



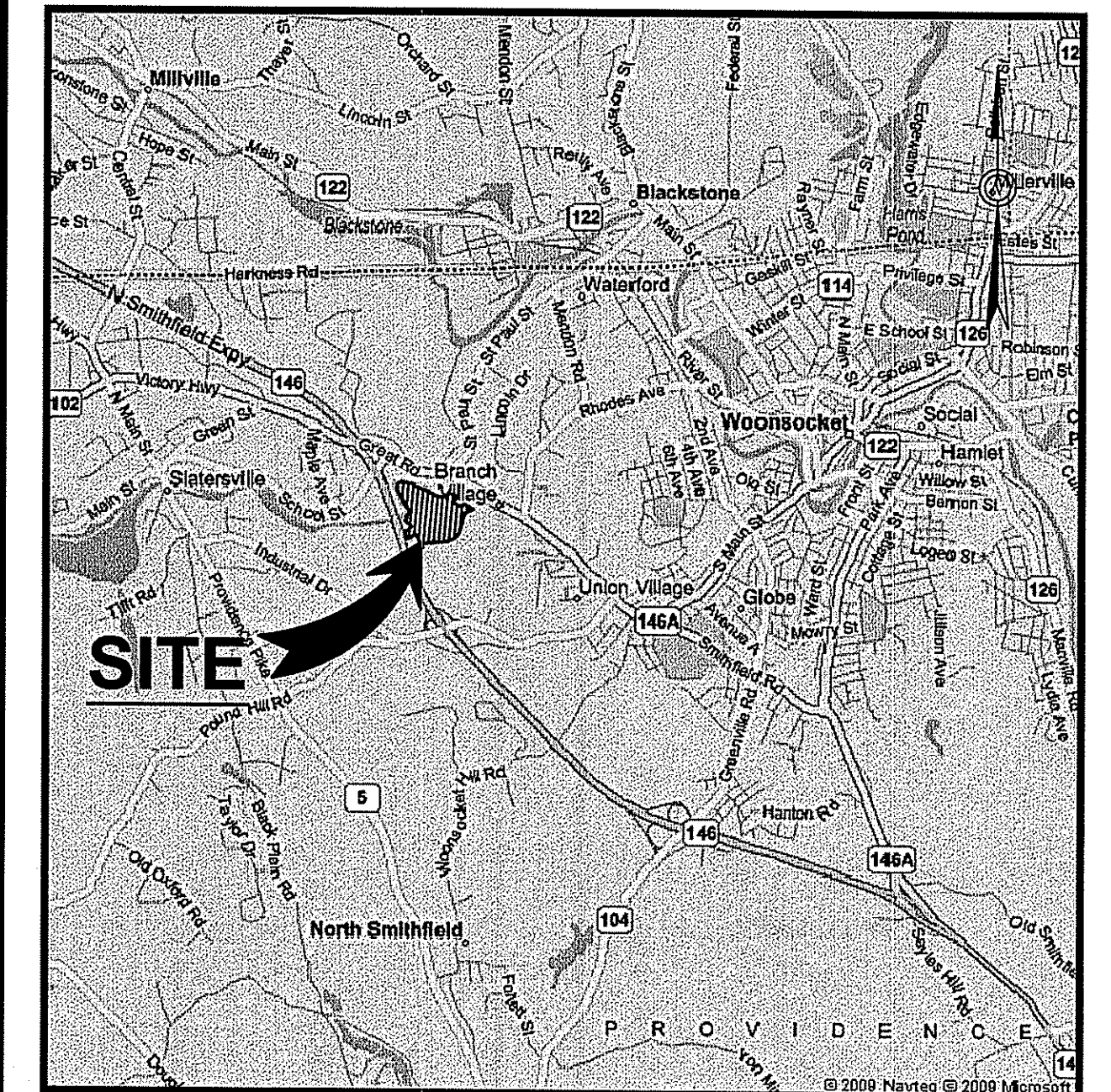
- Civil
- Transportation
- Environmental
- Site Planning
- Landscape Architecture
- Land Surveying

CROSSMAN ENGINEERING
 151 Centerville Road | Warwick, Rhode Island 02886
 Phone: (401) 738-5660 | Fax: (401) 738-8157
 Email: cel@crossmaneng.com

APPLICANT



77 POND AVENUE, SUITE 101
 BROOKLINE, MASSACHUSETTS 02445



LOCATION MAP
 NOT TO SCALE

INDEX OF DRAWINGS

DRAWING No.	PLAN
C1	GENERAL NOTES and LEGEND
C2	EXISTING CONDITIONS PLAN
C3	SITE LAYOUT PLAN
C4	SOIL EROSION and SEDIMENT CONTROL PLAN

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED MAY 2 2014 FILE # 14-0060
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

STEVEN M. CABRAL
 No. [Signature]
 [Signature]

REVISIONS:

No.:	DATE:	DESCRIPTION:
1	03/24/14	LOD/TOTAL PROJECT AREA LIMIT
2	04/22/14	RIDEM COMMENTS

GENERAL NOTES

- ALL EXISTING UTILITIES HAVE BEEN PLOTTED BASED UPON BEST AVAILABLE INFORMATION AND REPRESENT APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE & UTILITIES, BOTH UNDERGROUND AND OVERHEAD, BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH "DIG SAFE PROGRAM LAW" ENACTED BY THE R.I. LEGISLATURE AND BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY MUNICIPALITY, STATE OR FEDERAL AGENCY THAT MAY APPLY. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- SPECIFICATIONS TO GOVERN THIS PROJECT ARE R.I.D.O.T. STANDARD SPECIFICATIONS. FOR ALL EXCAVATION, PLACEMENT OF FILL, PIPE INSTALLATION, BITUMINOUS PAVEMENT, CUTTING INTO CATCHBASIN/MANHOLES, CONCRETE AND SAWCUTTING, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, WITH LATEST REVISIONS UNLESS OTHERWISE SHOWN ON PLANS. THE "METHOD OF MEASUREMENT" AND "BASIS OF PAYMENT" ARE NOT APPLICABLE. THESE SPECIFICATIONS CAN BE OBTAINED ON-LINE AT:
 HTTP://WWW.DOT.STATE.RI.US/ENGINEERING/STANDARDS/INDEX.ASP
- FOR ALL EXCAVATION AND PLACEMENT OF FILL, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE R.I. STANDARD SPECIFICATION SECTION 202.
- RHODE ISLAND STANDARDS REFERENCED ARE ACCORDING TO THE STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS "RHODE ISLAND STANDARD DETAILS" DATED JUNE 27, 2008, WITH ALL REVISIONS AS PREPARED BY THE DEPARTMENT OF TRANSPORTATION.
- THE CONTRACTOR MUST VERIFY PRIOR TO CONSTRUCTION THAT ALL REQUIRED AUTHORIZATION TO PERFORM WORK HAS BEEN OBTAINED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION OPERATIONS INCLUDING ALL ACTIONS OR OMISSIONS OF ANY SUBCONTRACTORS, AGENTS OR EMPLOYEES. THE CONTRACTOR MUST ENSURE THAT THE CONDITIONS OF ALL PERMITS, SPECIFICATIONS AND FEDERAL, STATE AND LOCAL REGULATIONS ARE STRICTLY ENFORCED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ASPECTS OF ON-SITE SAFETY INCLUDING ANY DAMAGE TO EXISTING STRUCTURES.
- WORK SHOWN ON THE PLANS FOR WHICH THERE ARE NO PARTICULAR DETAILS OR SPECIFICATIONS DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING THE WORK. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE CONTRACT DOCUMENTS AND PLANS AND INSPECT THE SITE, AND THE BID PRICE SHALL INCLUDE ALL SERVICES AND MATERIALS NECESSARY TO COMPLETE THE PROJECT. ANY CHANGES TO THE PROJECT OR THE INSTALLATION OF AN ITEM FOR WHICH NO PARTICULAR DETAIL OR SPECIFICATION WAS PROVIDED MUST BE REVIEWED BY AND MUST BE ACCEPTABLE TO THE ENGINEER.
- CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING CONDITIONS DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY WORK.
- ALL DISTURBED AREAS SHALL BE REPLACED IN KIND UNLESS OTHERWISE SHOWN.

LAYOUT NOTE

THE LAYOUT SHOWN REPRESENTS A GRAPHICAL DESIGN, AND PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL LAND SURVEYOR (PLS) REGISTERED IN THE STATE TO SET AND VERIFY ALL LINES AND GRADES. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY ITEM FOUND WHICH DOES NOT MATCH THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO CONSTRUCTION FOR REVIEW. NO WORK SHALL PROCEED UNTIL AUTHORIZED BY THE ENGINEER.

FLOOD ZONE NOTE

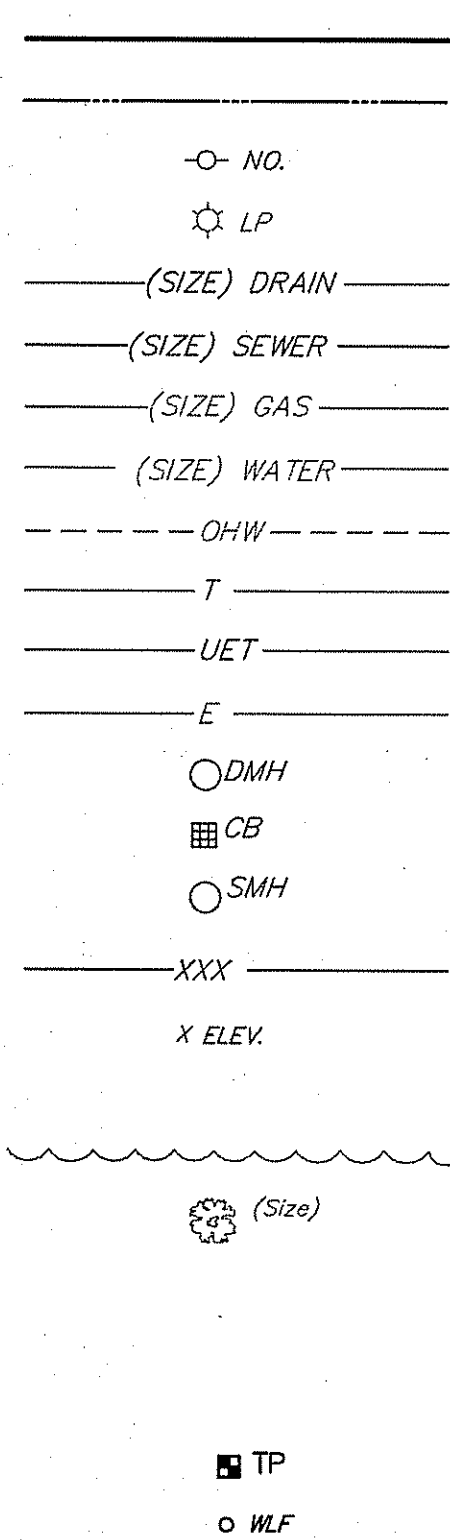
A PORTION OF THE SITE (OUTSIDE THE PROPOSED WORK AREA) IS LOCATED IN SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD, ZONE A, NO BASE FLOOD ELEVATION DETERMINED, AS SHOWN ON THE FLOOD INSURANCE RATE MAP, PROVIDENCE COUNTY, RHODE ISLAND, MAP NUMBER 44007C0156G, EFFECTIVE DATE: MARCH 2, 2009. THIS AREA IS ADJACENT TO THE BRANCH RIVER AND THE LOCATIONS SHOWN IN THIS PLAN SET ARE APPROXIMATE. THE 1% CHANCE ANNUAL FLOOD (100 YEAR FLOOD), ALSO KNOWN AS THE BASE FLOOD, THAT HAS A 1% CHANCE OF BEING EQUALED OR EXCEEDED IN ANY GIVEN YEAR. THE SPECIAL FLOOD HAZARD AREA IS THE AREA SUBJECT TO FLOODING BY THE 1% ANNUAL CHANCE FLOOD. AREAS OF THE SPECIAL FLOOD HAZARD INCLUDE ZONES A, AE, AH, AO, AR, A99, V AND VE. THE BASE FLOOD ELEVATION IS THE WATER SURFACE ELEVATION OF THE 1% ANNUAL CHANCE FLOOD.

THE PROPOSED IMPROVEMENTS ARE LOCATED IN A FLOOD ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON THE FLOOD INSURANCE RATE MAP, PROVIDENCE COUNTY, RHODE ISLAND, MAP NUMBER 44007C0156G, EFFECTIVE DATE: MARCH 2, 2009.

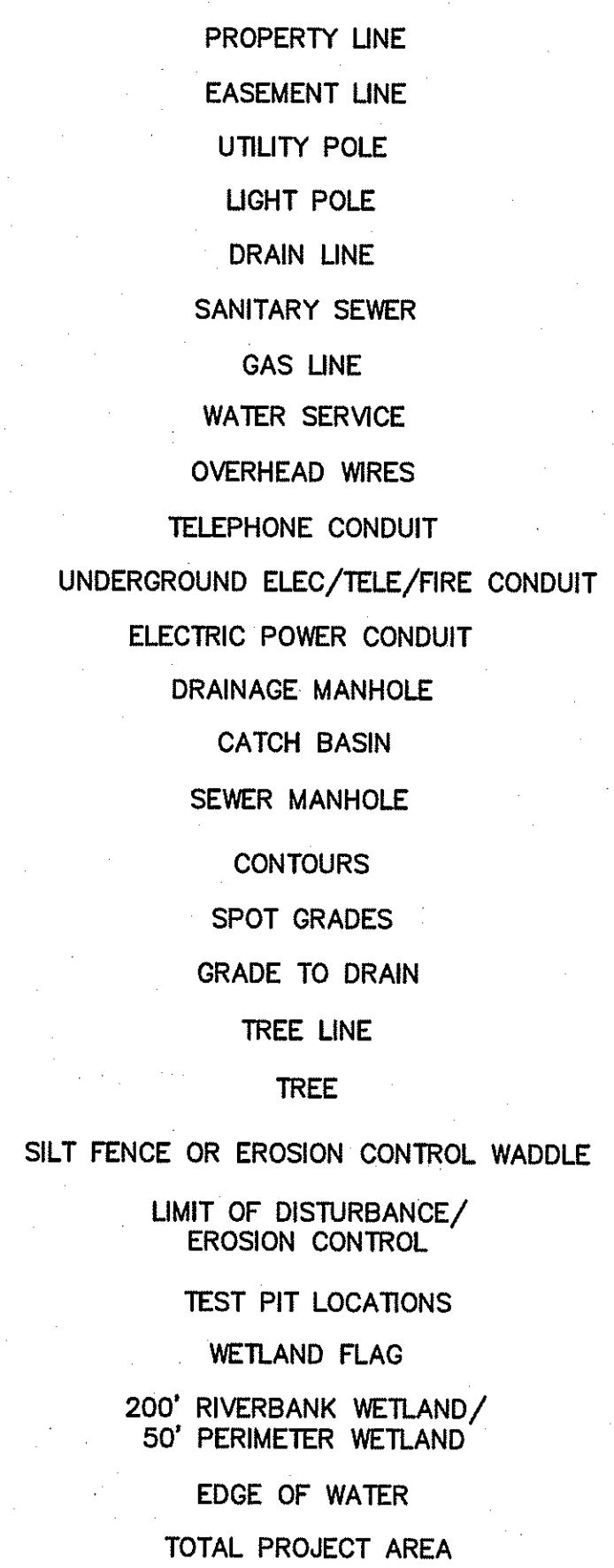
OPERATION AND MAINTENANCE PROGRAM

UPON PROJECT COMPLETION, THE SITE OWNER SHALL WALK THE SITE TWICE A YEAR FOR A GENERAL INSPECTION AND TO NOTE AREAS OF EROSION AND AREAS VOID OF VEGETATION. AREAS NOT VEGETATED ARE PRONE TO EROSION AND WILL BE RE-SEEDED AS REQUIRED TO ESTABLISH A STABILIZED AREA. SEDIMENT FROM EROSION SHALL BE REMOVED. SEDIMENT REMOVAL WILL BE IN AN UPLAND AREA AND IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

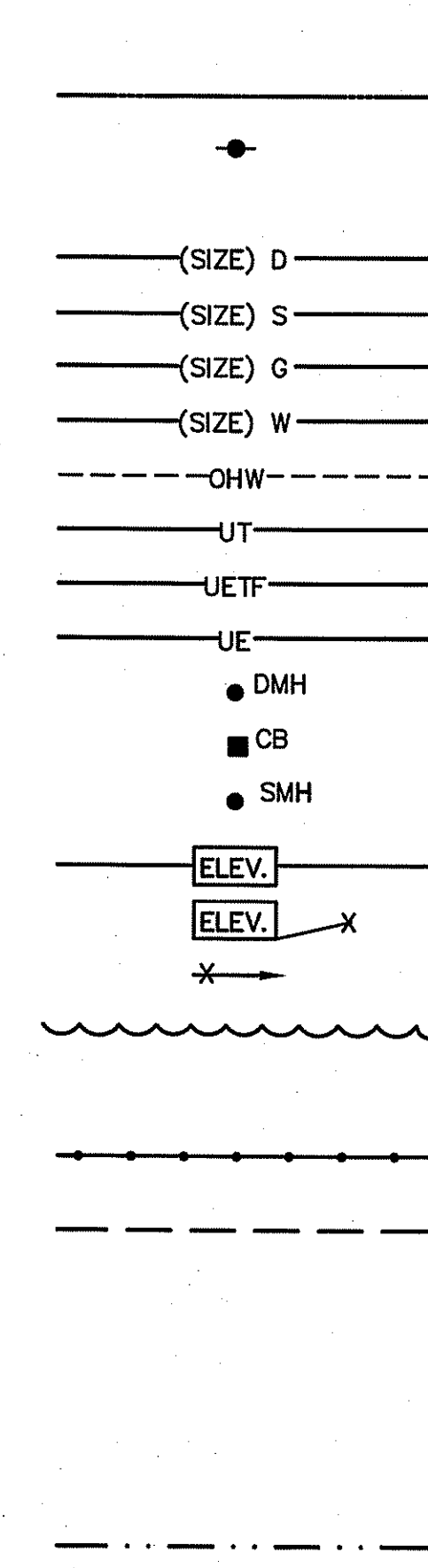
EXISTING



LEGEND



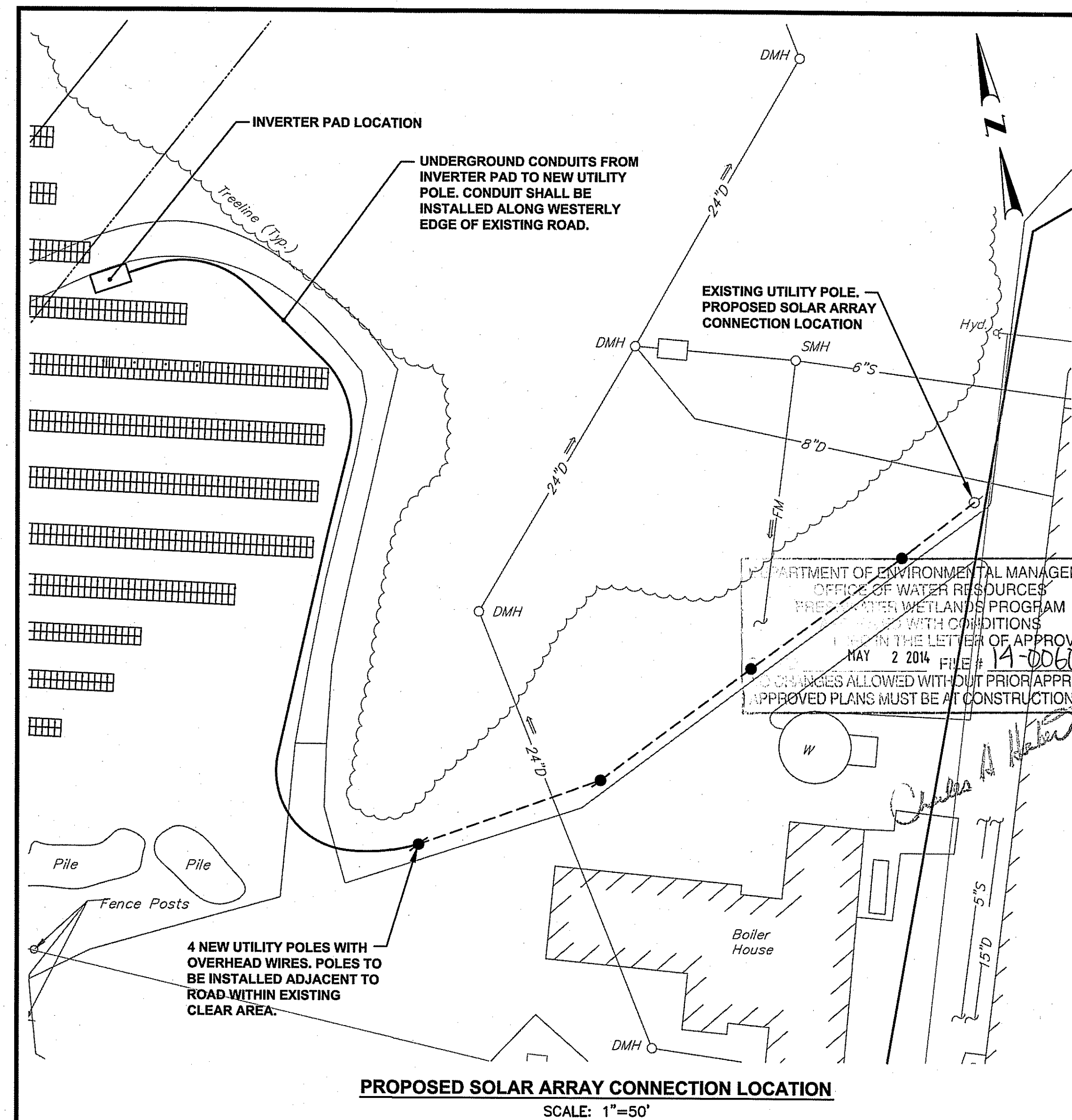
PROPOSED



TEST PIT DATA

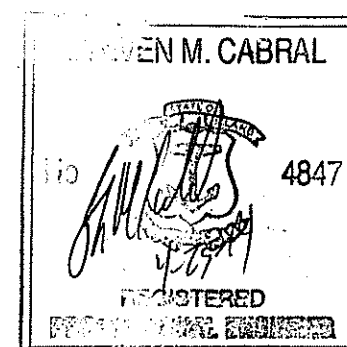
TEST PITS 1-4 CONDUCTED ON SEPTEMBER 21, 2012 AND TEST PITS 13-1 - 13-3 CONDUCTED ON JULY 18, 2013 BY CROSSMAN ENGINEERING.

TEST PIT 1	TEST PIT 2	TEST PIT 3	TEST PIT 4	TEST PIT 13-1	TEST PIT 13-2	TEST PIT 13-3
0" Black Very Fine Sandy Loom Fill Mix A/HTM	0" Grayish Brown Very Fine Sandy Loom Fill Mix A/HTM	0" Grayish Brown Very Fine Sandy Loom Fill HTM	0" Black Very Fine Sandy Loom Fill Mix A/HTM	0" Forest Litter Oi	0" Forest Litter Oi	0" Forest Litter Oi
5" Dark Yellowish Brown Stony Sandy Loom Fill Mix B/HTM	5" Light Olive Brown Gravelly Coarse Sand HTM	8" Light Olive Brown Stony Fine Sandy Loom Fill HTM	6" Stony and Coarse Sand Fill HTM	3" Dark Brown Fine Sandy Loom A (Friable)	3" Dark Brown Fine Sandy Loom A (Friable)	4" Dark Brown Fine Sandy Loom A (Friable)
9" Dark Brown Very Fine Sandy Loom/Loamy Fine Sand Fill HTM	15" Dark Brown Stony Fine Sandy Loom Fill HTM	60" Black Silt Oa (Friable)	12" Dark Brown Very Fine Sandy Loom HTM	6" Dark Yellowish Brown Fine Sandy Loom Bw1 (Friable)	12" Dark Yellowish Brown Fine Sandy Loom Bw1 (Friable)	15" Dark Yellowish Brown Fine Sandy Loom Bw1 (Friable)
66" Refusal No Water Seepage 9"-66" Redox Features	42" Black Silt Oa (Friable)	68" Dark Brown Very Fine Sandy Loom Bw1 (Friable)	76" Black Silt Oa (Friable)	20" Yellowish Brown Fine Sandy Loom Bw2 (Friable)	26" Yellowish Brown Sandy Loom Bw2 (Friable)	32" Yellowish Brown Sandy Loom Bw2 (Friable)
	47" Very Dark Brown Stony Fine Sandy Loom Bw1 (Friable)	72" Dark Brown Very Fine Sandy Loom Bw2 (Friable)	86" Olive Very Fine Sandy Loom B (Friable)	34" Dark Yellowish Brown Gravelly Fine Sand-Gravelly Sand Bc (Loose)	44" Light Olive Brown Stony Gravelly Sand C1 (Loose)	43" Light Olive Brown Stony Gravelly Coarse Sand C1 (Loose)
	50" Dark Brown Very Fine Sandy Loom Bw2 (Friable with Firm Pockets)	88" Light Olive Brown Very Fine Sand C1 (Friable)	99" Olive Brown Loamy Very Fine Sand 2C (Friable)	44" Grayish Brown Very Fine Sand/Loamy Very Fine Sand C2 (Loose)	80" Grayish Brown Fine Sand-Sand C2 (Loose)	80" Grayish Brown Fine Sand-Sand C2 (Loose)
	60" Light Olive Brown Stony Very Fine Sand C1 (7mm)	101" Dark Yellowish Brown Stony Coarse Sand with Stratified Very Fine Sand 2C (Friable)	112" Dark Yellowish Brown Stony Gravelly Coarse Sand 2C (Loose)	65" Light Olive Brown Sand C2 (Loose)	91" Dark Gray Coarse Sand C3 (Loose)	91" Dark Gray Coarse Sand C3 (Loose)
	72" Black Stony Gravelly Coarse Sand (Cemented) 2Cm1 (Very Firm)	137" No Refusal 120" Water Seepage 50"-60" Stratified Redox Lenses 42"-72" Hanging GW Condition 72" ESHWT	130" No Refusal 122" Water Seepage 90" Water Seepage 34"-55" Stratified Redox Lenses 60" Hanging GW Condition 80" ESHWT	108" No Refusal 90" Water Seepage 44"-84" Stratified Redox Lenses 62" ESHWT	122" No Refusal 86" Water Seepage 43"-91" Stratified Redox Lenses 62" ESHWT	



CROSSMAN ENGINEERING
151 Centerville Road | Warwick, Rhode Island 02886
Phone: (401) 738-5660 | Fax: (401) 738-8157
Email: ce@crossmaneng.com

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KEY PLAN

PROPOSED RENEWABLE ENERGY INSTALLATION

PLAT MAP 5, LOT 479
BRANCH RIVER COMMERCE PARK
590 GREAT ROAD
NORTH SMITHFIELD, RI

PREPARED FOR:

NextSun Energy
77 POND AVENUE, SUITE 101
BROOKLINE, MA 02445

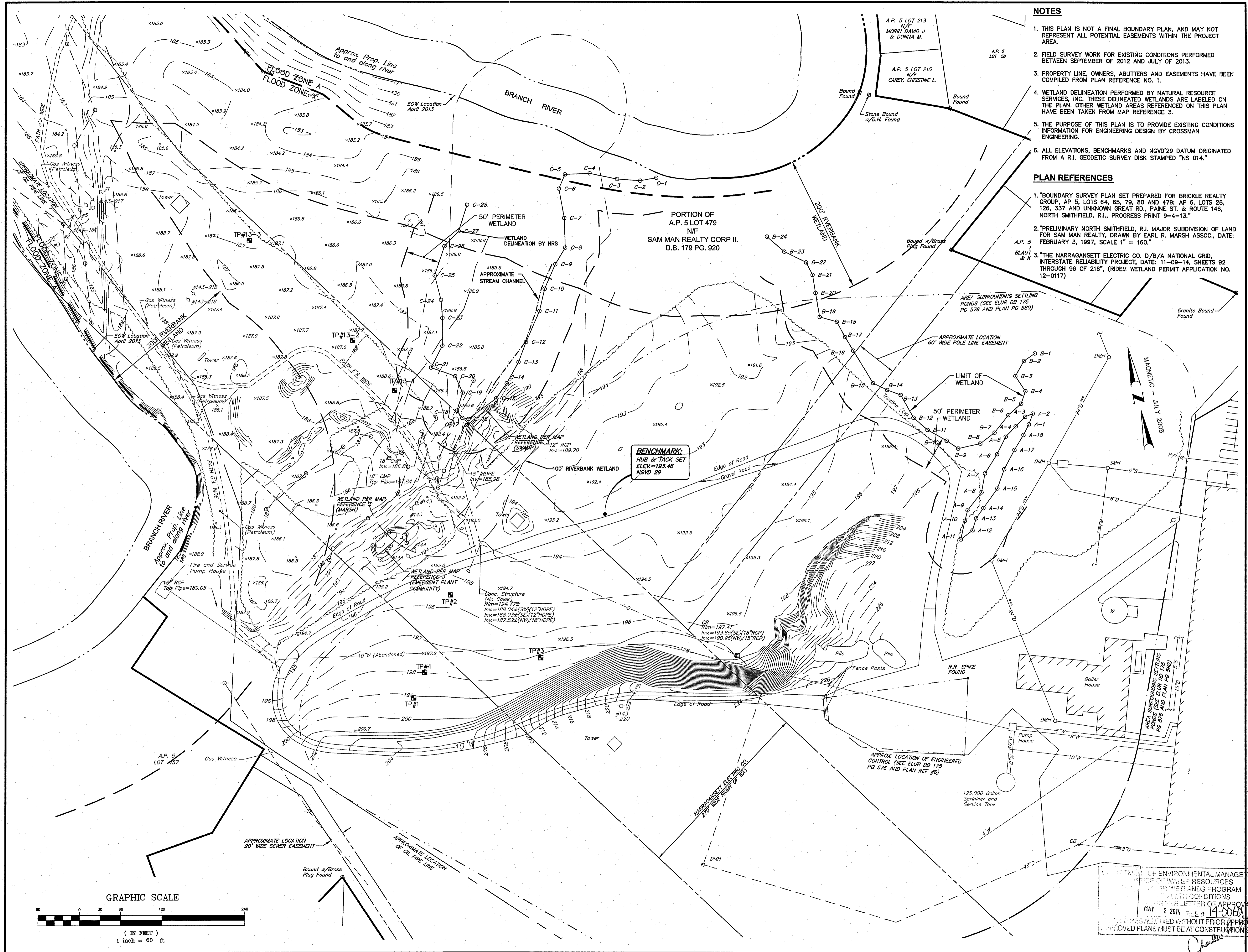
GENERAL NOTES and LEGEND

DATE: MARCH 2014 SCALE: AS SHOWN
DRG. NAME: 1976-C01-NOTES-R2.dwg

REVISIONS

NUMBER	REMARKS	DATE
1	LOD/TOTAL PROJECT AREA LIMIT	03/24/14
2	RIDEM COMMENTS	04/22/14

DRAWING NUMBER
C1
SHEET: 2 OF 5



NOTES

1. THIS PLAN IS NOT A FINAL BOUNDARY PLAN, AND MAY NOT REPRESENT ALL POTENTIAL EASEMENTS WITHIN THE PROJECT AREA.
2. FIELD SURVEY WORK FOR EXISTING CONDITIONS PERFORMED BETWEEN SEPTEMBER OF 2012 AND JULY OF 2013.
3. PROPERTY LINE, OWNERS, ABUTTERS AND EASEMENTS HAVE BEEN COMPILED FROM PLAN REFERENCE NO. 1.
4. WETLAND DELINEATION PERFORMED BY NATURAL RESOURCE SERVICES, INC. THESE DELINEATED WETLANDS ARE LABELED ON THE PLAN. OTHER WETLAND AREAS REFERENCED ON THIS PLAN HAVE BEEN TAKEN FROM MAP REFERENCE 3.
5. THE PURPOSE OF THIS PLAN IS TO PROVIDE EXISTING CONDITIONS INFORMATION FOR ENGINEERING DESIGN BY CROSSMAN ENGINEERING.
6. ALL ELEVATIONS, BENCHMARKS AND NGVD'29 DATUM ORIGINATED FROM A R.I. GEODETIC SURVEY DISK STAMPED "NS 014".

PLAN REFERENCES

1. "BOUNDARY SURVEY PLAN SET PREPARED FOR BRICKLE REALTY GROUP, AP 5, LOTS 64, 65, 79, 80 AND 479; AP 6, LOTS 28, 126, 337 AND UNKNOWN GREAT RD., PAINE ST. & ROUTE 146, NORTH SMITHFIELD, R.I., PROGRESS PRINT 9-4-13."
2. "PRELIMINARY NORTH SMITHFIELD, R.I. MAJOR SUBDIVISION OF LAND FOR SAM MAN REALTY, DRAWN BY EARL R. MARSH ASSOC., DATE: FEBRUARY 3, 1997, SCALE 1" = 160."
3. "THE NARRAGANSETT ELECTRIC CO. D/B/A NATIONAL GRID, INTERSTATE RELIABILITY PROJECT, DATE: 11-09-14, SHEETS 92 THROUGH 96 OF 216", (RIDEM WETLAND PERMIT APPLICATION NO. 12-0117)

CROSSMAN ENGINEERING
 151 Cantonville Road | Warwick, Rhode Island 02886
 Phone: (401) 738-6600 | Fax: (401) 738-8157
 Email: ce@crosmaneng.com

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STEVEN M. CABRAL
 4847
 REGISTERED PROFESSIONAL ENGINEER

KEY PLAN

PROJECT TITLE:
PROPOSED RENEWABLE ENERGY INSTALLATION

PLAT MAP 5, LOT 479

BRANCH RIVER COMMERCE PARK
 590 GREAT ROAD
 NORTH SMITHFIELD, RI

PREPARED FOR:

NextSun Energy

77 POND AVENUE, SUITE 101
 BROOKLINE, MA 02445

DRAWING TITLE:
EXISTING CONDITIONS PLAN

DATE: MARCH 2014 **SCALE:** 1"=60'

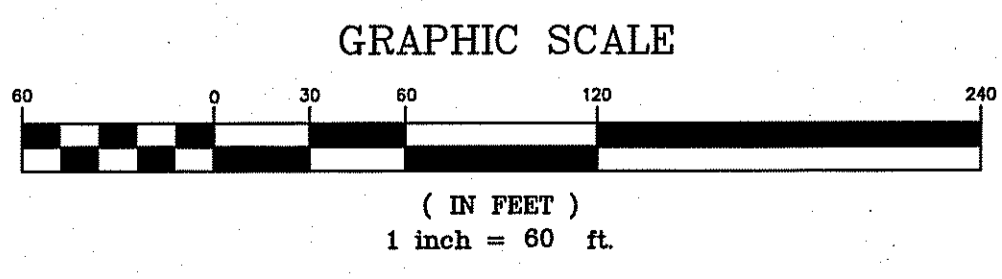
DWG. NAME: 1976-C02-EXCN-R2.dwg

REVISIONS

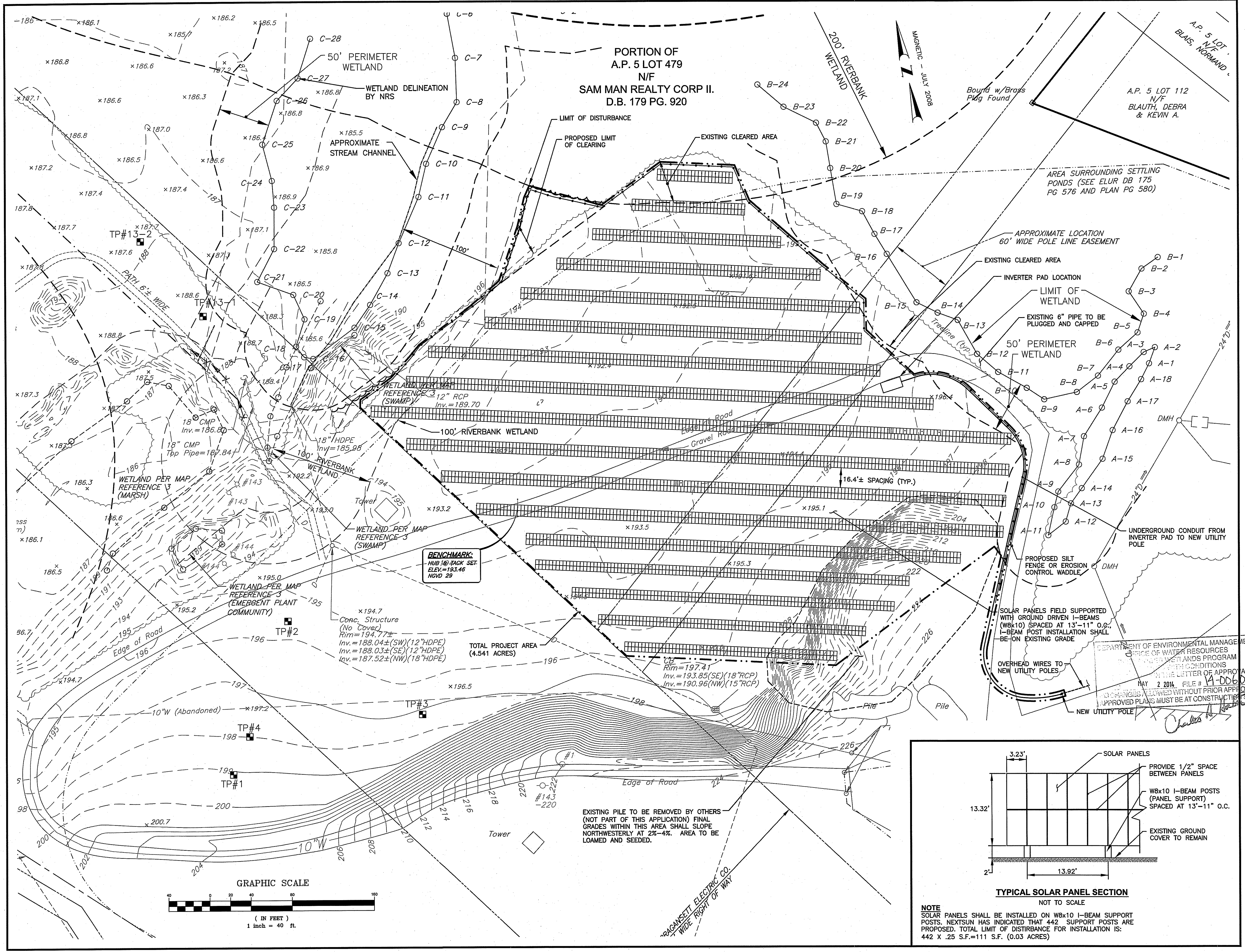
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1	LOD/TOTAL PROJECT AREA LIMIT	03/24/14
2	RIDEM COMMENTS	04/22/14

DRAWING NUMBER C2

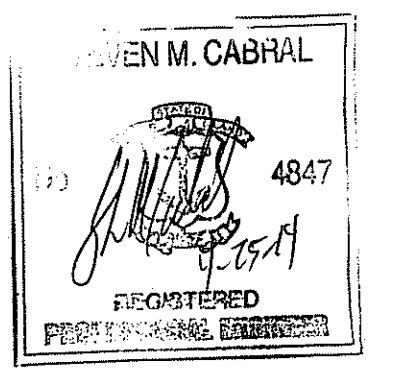
SHEET: 3 OF 5



STATE OF ENVIRONMENTAL MANAGEMENT
 DEPT. OF WATER RESOURCES
 RIVER WETLANDS PROGRAM
 EXISTING CONDITIONS
 LETTER OF APPROVAL
 MAY 2 2014 FILE # 14-0060
 PERMITS ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE



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KEY PLAN

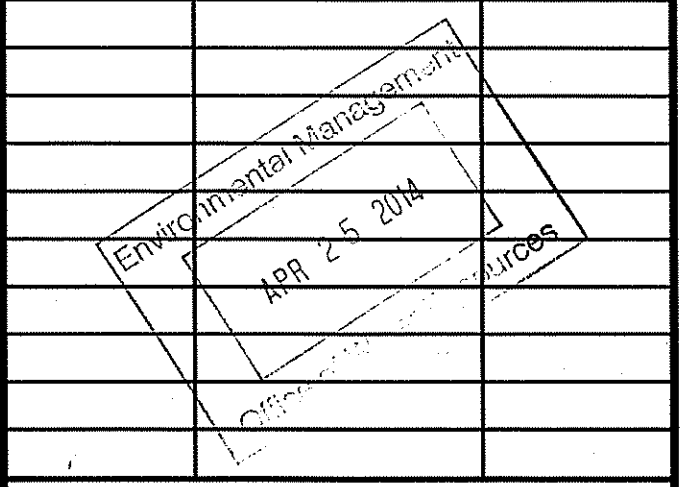
PROPOSED RENEWABLE ENERGY INSTALLATION
 PLAT MAP 5, LOT 479
 BRANCH RIVER COMMERCE PARK
 590 GREAT ROAD
 NORTH SMITHFIELD, RI

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 77 POND AVENUE, SUITE 101
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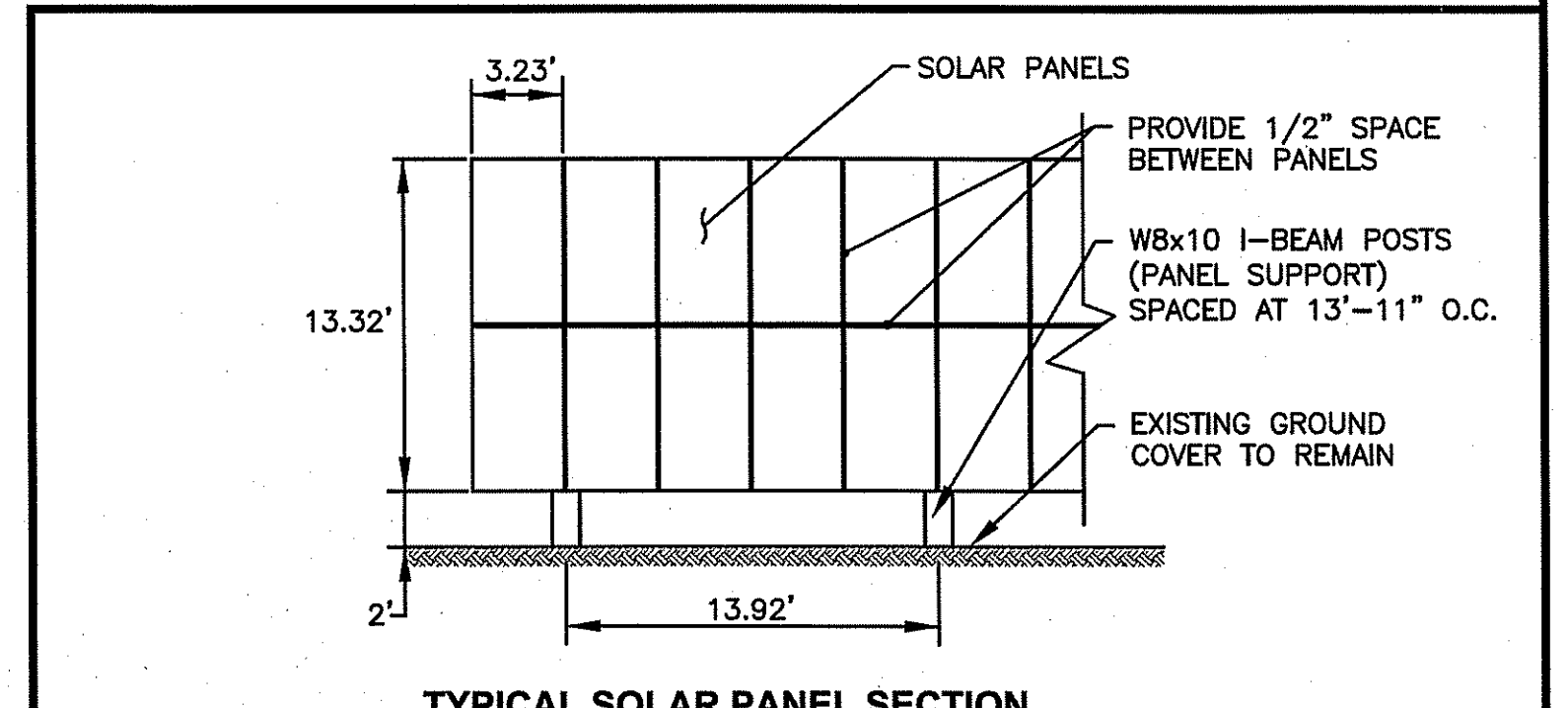
SITE LAYOUT PLAN

DATE: MARCH 2014 SCALE: 1"=40'
 DWG. NAME: 1976-C03-SITE-R2.dwg

REVISIONS	NUMBER	REMARKS	DATE
1	1	LOD/TOTAL PROJECT AREA LIMIT	03/24/14
2	2	RIDEM COMMENTS	04/22/14

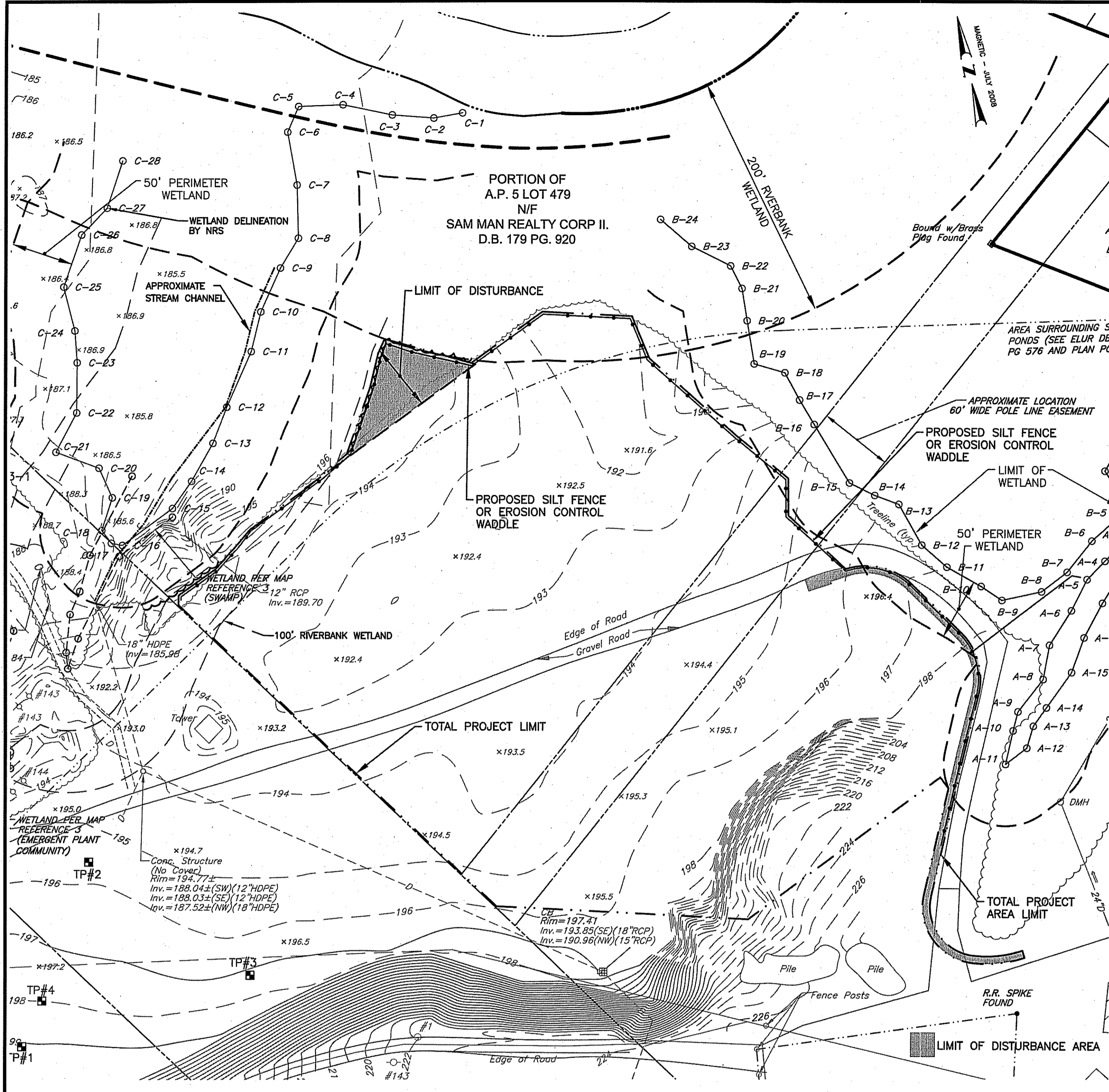


DRAWING NUMBER
C3
 SHEET: 4 OF 5



TYPICAL SOLAR PANEL SECTION
 NOT TO SCALE

NOTE
 SOLAR PANELS SHALL BE INSTALLED ON W8x10 I-BEAM SUPPORT POSTS. NEXTSUN HAS INDICATED THAT 442 SUPPORT POSTS ARE PROPOSED. TOTAL LIMIT OF DISTURBANCE FOR INSTALLATION IS: 442 X .25 S.F.=111 S.F. (0.03 ACRES)



SITE PLAN
SCALE: 1"=60'

SOIL EROSION AND SEDIMENT CONTROL NOTES

- CONTRACTOR SHALL INSTALL TEMPORARY MEASURES SUCH AS; FIBER MATTING, CRUSHED STONE, HAY OR STRAW IN AREAS WHERE SLOPES OR STABILIZATION HAS FAILED.
- EROSION CONTROL WADDLE (OR SILT FENCE OR STAKED HAYBALES) SHALL BE INSTALLED AROUND THE PERIMETER OF THE AREA TO BE DISTURBED BY CONSTRUCTION. ADDITIONAL APPLICATIONS OF THESE CONTROLS MEASURES MAY BE REQUIRED DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL INSPECT THE SITE AT A MINIMUM OF ONCE PER WEEK OR WITHIN 24 HOURS AFTER A STORM EVENT.
- IF EROSION OR EROSION TENDENCIES ARE APPARENT ON THE SITE, THE CONTRACTOR IS RESPONSIBLE TO INSTALL ADDITIONAL CONSTRUCTION BMP'S SUCH AS SAND BAGS AS DIRECTED BY LOCAL MUNICIPALITY, STATE OR ENGINEER DURING CONSTRUCTION.
- IF SEDIMENT OR DEBRIS IS TRACKED OUTSIDE OF THE CONSTRUCTION AREA, THE CONTRACTOR IS REQUIRED TO INSTALL CRUSHED STONE AS AN ANTI TRACKING METHOD. THE AREA SHALL BE INSPECTED DAILY.
- THE CONTRACTOR IS RESPONSIBLE TO KEEP THE SITE CLEAN OF TRASH. RECOMMENDED DAILY PATROL OF THE CONSTRUCTION SHOULD BE CONDUCTED TO PICK-UP TRASH. THE OPERATOR SHALL REQUIRE THE CONTRACTOR TO HAVE PORTABLE SANITARY FACILITIES ON SITE. ROUTING CLEANING AND WASTE DISPOSAL OF THESE PORTABLE SANITARY FACILITIES IS REQUIRED.

RECEIVING WATER DATA

WATERSHED NAME - BLACKSTONE RIVER BASIN RI0001; BRANCH RIVER AND TRIBUTARIES SUBBASIN RI0001002R-01B
GROUNDWATER CLASSIFICATION - GA (SOURCE: RIDEM)

PROJECT DATA

- LIMIT OF DISTURBANCE AREA IS LESS THAN 1 ACRE [TREE CLEARING (0.08 AC), I-BEAM INSTALLATION (0.03 AC) AND INVERTER PAD, CONDUIT, AND POLES (0.08 AC)]
- THE SITE IS NOT LOCATED WITHIN OR ADJACENT TO A RIDEM NATURAL HERITAGE AREA. (SOURCE: RIDEM)

SITE CONSTRUCTION SEQUENCE AND SCHEDULE

- INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO ANY SOIL DISTURBANCE.
- CUT TREES, CLEAR AND GRUB AT LOCATION SHOWN.
- PLACE LOAM IF REQUIRED TO PROVIDE A MINIMUM 4" LOAM DEPTH.
- INSTALL SOLAR PANELS.
- SEED/RE-SEED AS NEEDED FOR AREA TO BE STABILIZED WITH GRASS COVER (USE CONSERVATION MIX).
- REMOVE EROSION CONTROLS AFTER GROUND IS STABILIZED.

ADDITIONAL CONTROLS

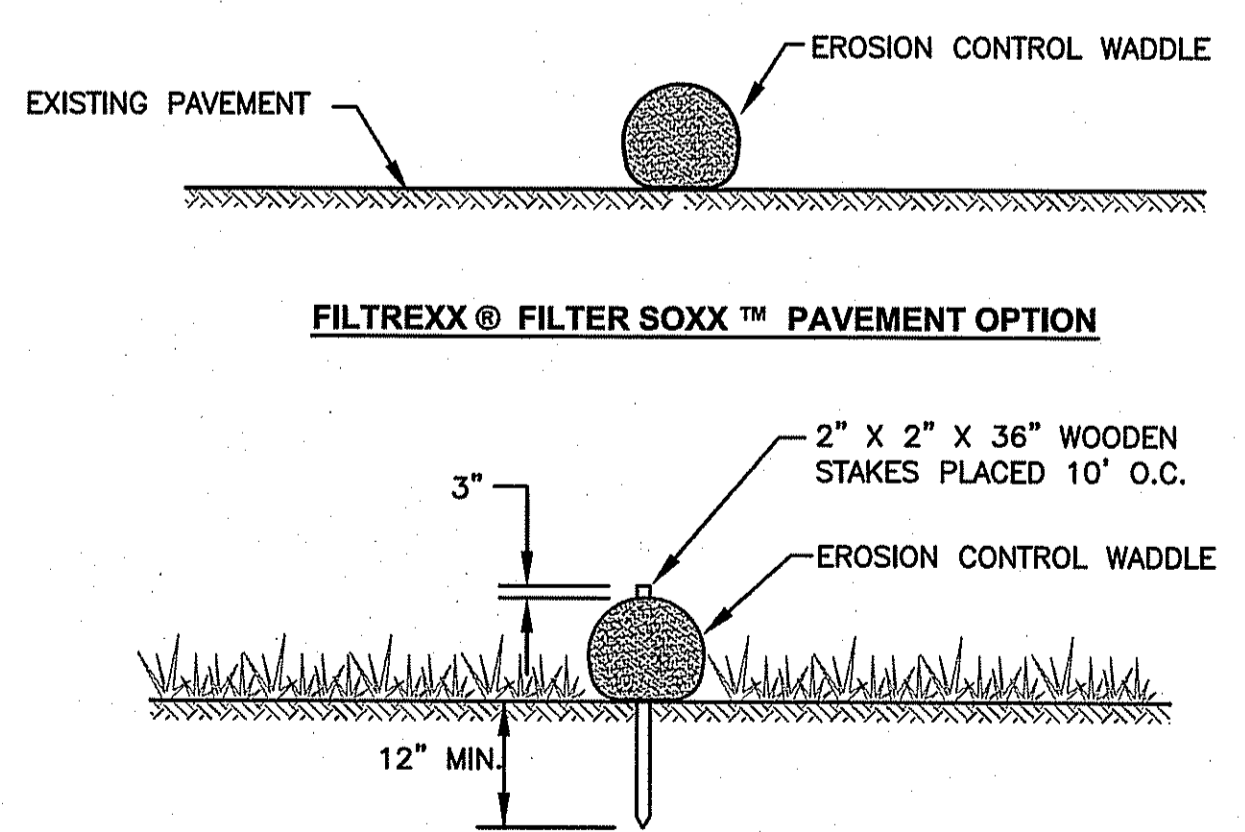
- ALL TYPES OF WASTE GENERATED AT THE SITE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- THE CONTRACTOR IS REQUIRED TO NOTIFY LOCAL AUTHORITIES AND THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, OFFICE OF WASTE MANAGEMENT, OF ANY HAZARDOUS MATERIAL SPILL.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN THE SITE IN AN ORDERLY AND CLEAN STATE. ALL CONSTRUCTION WASTE SHALL BE STORED IN APPROPRIATE CONTAINERS PRIOR TO REMOVAL AND CONTACT WITH PRECIPITATION SHALL BE KEPT TO A MINIMUM.
- GENERAL MAINTENANCE PROCEDURES ARE OUTLINED IN THE ACCOMPANYING SITE PLANS. IN ADDITION, THE OPERATOR AND CONTRACTOR ARE REQUIRED TO INSPECT ALL EROSION CONTROLS ON THE SITE AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS AFTER A RAIN EVENT, WHICH GENERATES 0.25 INCHES OF RAIN IN A TWENTY-FOUR (24) HOUR PERIOD AND/OR AFTER A SIGNIFICANT AMOUNT OF RUNOFF.

GENERAL PROJECT WIDE NOTES

- EROSION CONTROL WADDLE OR SILT FENCE OR STAKED HAYBALES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, MAINTAINED ON A REGULAR BASIS, AND SHALL BE PLACED TO PREVENT SEDIMENTATION ONTO ADJACENT WETLANDS.
- THE CONTRACTOR MUST REPLACE AND/OR RESEED ANY VEGETATION THAT DOES NOT DEVELOP/SURVIVE WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ALL EROSION CONTROL WADDLES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED AND POTENTIAL SEDIMENTATION SOURCES ARE REMOVED.
- TREES AND OTHER EXISTING VEGETATION SHALL BE RETAINED WHENEVER FEASIBLE; THE AREA BEYOND THE DROPLINE SHALL BE FENCED OR ROPED OFF TO PROTECT TREES FROM CONSTRUCTION EQUIPMENT.
- AREAS DAMAGED DURING CONSTRUCTION SHALL BE RESEDED, RESEEDING, OR OTHERWISE RESTORED AT THE CONTRACTOR'S EXPENSE.
- STOCKPILES SHALL HAVE NO SLOPE STEEPER THAN 2:1 AND SHALL BE SURROUNDED BY STAKED EROSION CONTROL WADDLE.
- STOCKPILES EXPOSED FOR EXCESSIVE PERIODS SHALL RECEIVE TEMPORARY TREATMENT CONSISTING OF HAY, STRAW, FIBER MATTING OR APPROVED EQUAL.
- SILT FENCE OR STAKED HAYBALES MAY BE USED IN LIEU OF THE EROSION CONTROL WADDLE.
- ALL DISTURBED AREAS WHICH BECOME SUBJECT TO EROSION TENDENCIES WHETHER THEY BE NEWLY FILLED OR EXCAVATED SHALL RECEIVE SLOPE PROTECTION - SUCH AS RIP-RAP.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING PERIODS OF RAINFALL.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MAINTENANCE AND SHALL INSPECT / REPLACE DAILY DURING CONSTRUCTION, FOLLOWING RAINFALL AND WEEKLY DURING NON CONSTRUCTION PERIODS.
- ADDITIONAL EROSION CONTROL WADDLES OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
- THE "R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" PREPARED BY THE U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, 1989, MUST BE UTILIZED BY THE CONTRACTOR AS A GUIDE.

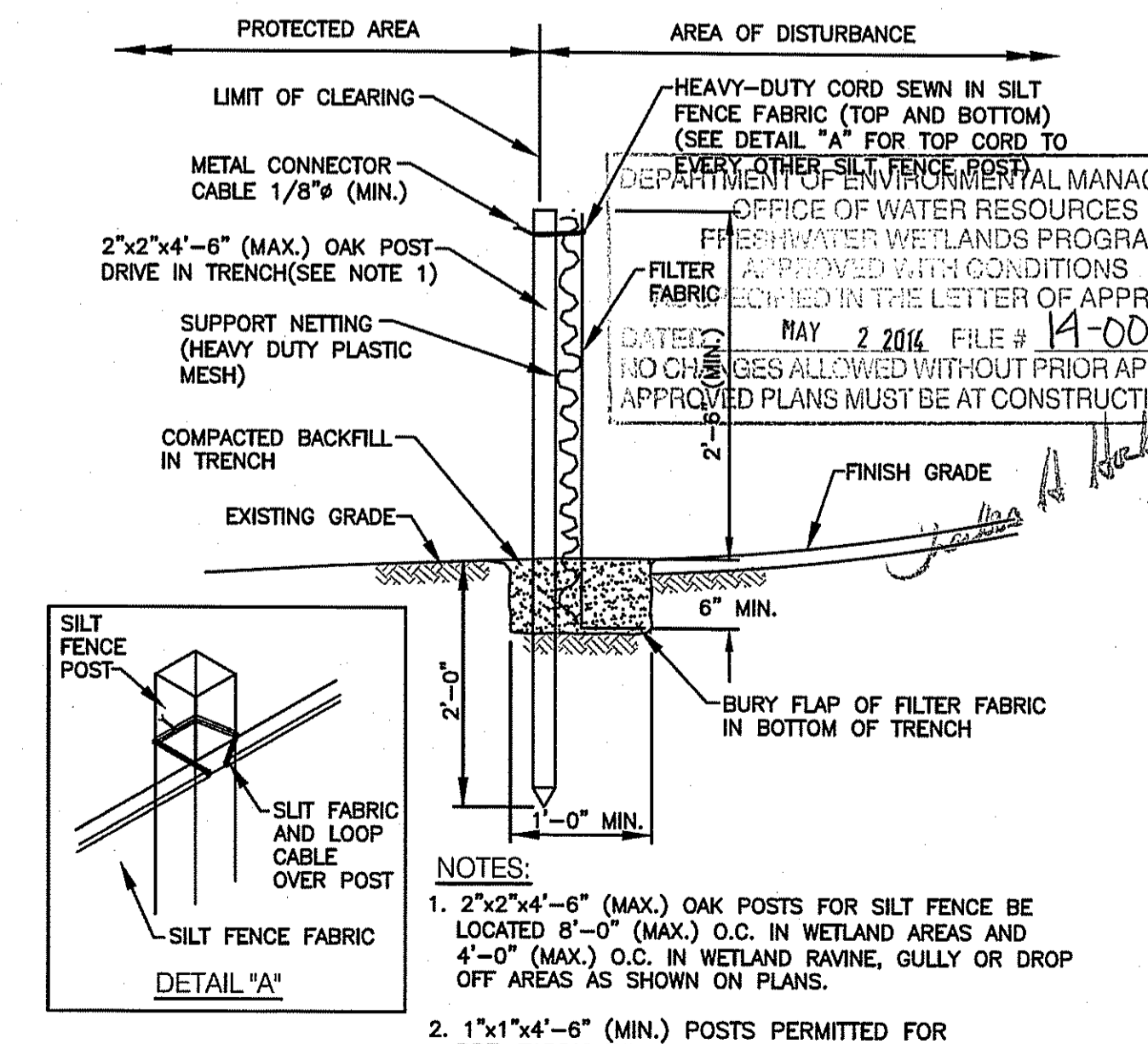
EROSION CONTROL AND SOIL STABILIZATION PROGRAM

- EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING THE WETLANDS.
- TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH PROTECTIVE COVERS, SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE OWNER.
- HAY OR STRAW APPLICATIONS SHALL BE IN THE AMOUNT OF 3,000-4,000 LBS/ACRE.
- STOCKPILES SHALL HAVE NO SLOPE STEEPER THAN 2:1 AND SHALL BE SURROUNDED BY STAKED HAY BALES OR SILT FENCING.
- STOCKPILES EXPOSED FOR EXCESSIVE PERIODS SHALL RECEIVE TEMPORARY TREATMENT CONSISTING OF HAY, STRAW OR FIBER MATTING.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MAINTENANCE AND SHALL INSPECT/REPLACE AS NEEDED.
- ADDITIONAL HAY BALES OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER, OWNER, MUNICIPAL REPRESENTATIVES OR RIDEM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DUST CONTROL AT NO ADDITIONAL COST TO THE OWNER.
- THE CATCH BASIN ADJACENT TO THE CONSTRUCTION AREA SHALL BE PROTECTED BY HAY BALES OR SILT SACKS.
- ALL PROPOSED CATCH BASINS SHALL BE PROTECTED BY STAKED HAY BALES, SILT FENCING OR SILT SACKS.



- NOTE:**
- SILT FENCE MAY BE USED IN LIEU OF EROSION CONTROL WADDLE.
 - CONTRACTOR IS RESPONSIBLE TO BECOME FAMILIAR WITH THE EROSION CONTROL PRODUCTS AND COORDINATE INSTALLATION SCHEDULES AND METHODS WITH THE ENGINEER PRIOR TO PLACEMENT.
 - ALL MATERIAL SHALL MEET EROSION CONTROL SPECIFICATIONS.
 - COMPOST MATERIAL TO BE DISPERSED ON SITE AS DETERMINED BY ENGINEER.

EROSION CONTROL WADDLE DETAIL
NOT TO SCALE



SILT FENCE DETAIL
NOT TO SCALE

CROSSMAN ENGINEERING
151 Centerville Road | Warwick, Rhode Island 02886
Phone: (401) 738-5660 | Fax: (401) 738-9157
Email: cel@crossmaneng.com

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KEY PLAN

PROPOSED RENEWABLE ENERGY INSTALLATION

PLAT MAP 5, LOT 479
BRANCH RIVER COMMERCE PARK
590 GREAT ROAD
NORTH SMITHFIELD, RI

PREPARED FOR:

NextSun Energy
77 POND AVENUE, SUITE 101
BROOKLINE, MA 02445

DRAWING TITLE: SOIL EROSION AND SEDIMENT CONTROL AND DETAIL PLAN

DATE: MARCH 2014 SCALE: AS NOTED
DWG. NAME: 1976-C04-SOIL-R2.dwg

REVISIONS

NUMBER	REMARKS	DATE
1	LOD/TOTAL PROJECT AREA LIMIT	03/24/14
2	RIDEM COMMENTS	04/22/14