

# PROPOSED LAYDOWN AREA RIDEM PRELIMINARY DETERMINATION

**PROPERTY**  
DANIELE DRIVE  
BURRILLVILLE, RI  
AP 195, LOT 15

**OWNERS**  
TOWN OF BURRILLVILLE  
105 HARRISVILLE MAIN STREET  
HARRISVILLE, RI 02830  
AND  
BURRILLVILLE SOLAR, LLC  
1355 PICCARD DRIVE, SUITE 300  
ROCKVILLE, MD 20850

**PREPARED FOR:**  
BURRILLVILLE SOLAR, LLC  
1355 PICCARD DRIVE, SUITE 300  
ROCKVILLE, MD 20850

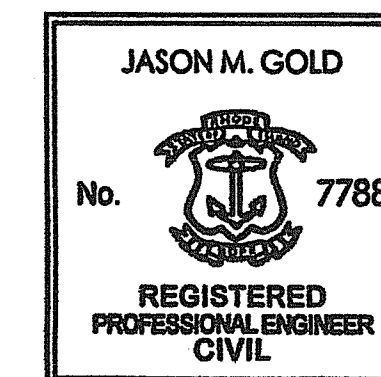
DECEMBER 20, 2019

PREPARED BY:



environmental consulting  
& engineering services

404 Wyman Street, Suite 375  
Waltham, Massachusetts 02451  
p 781.419.7696  
www.essgroup.com

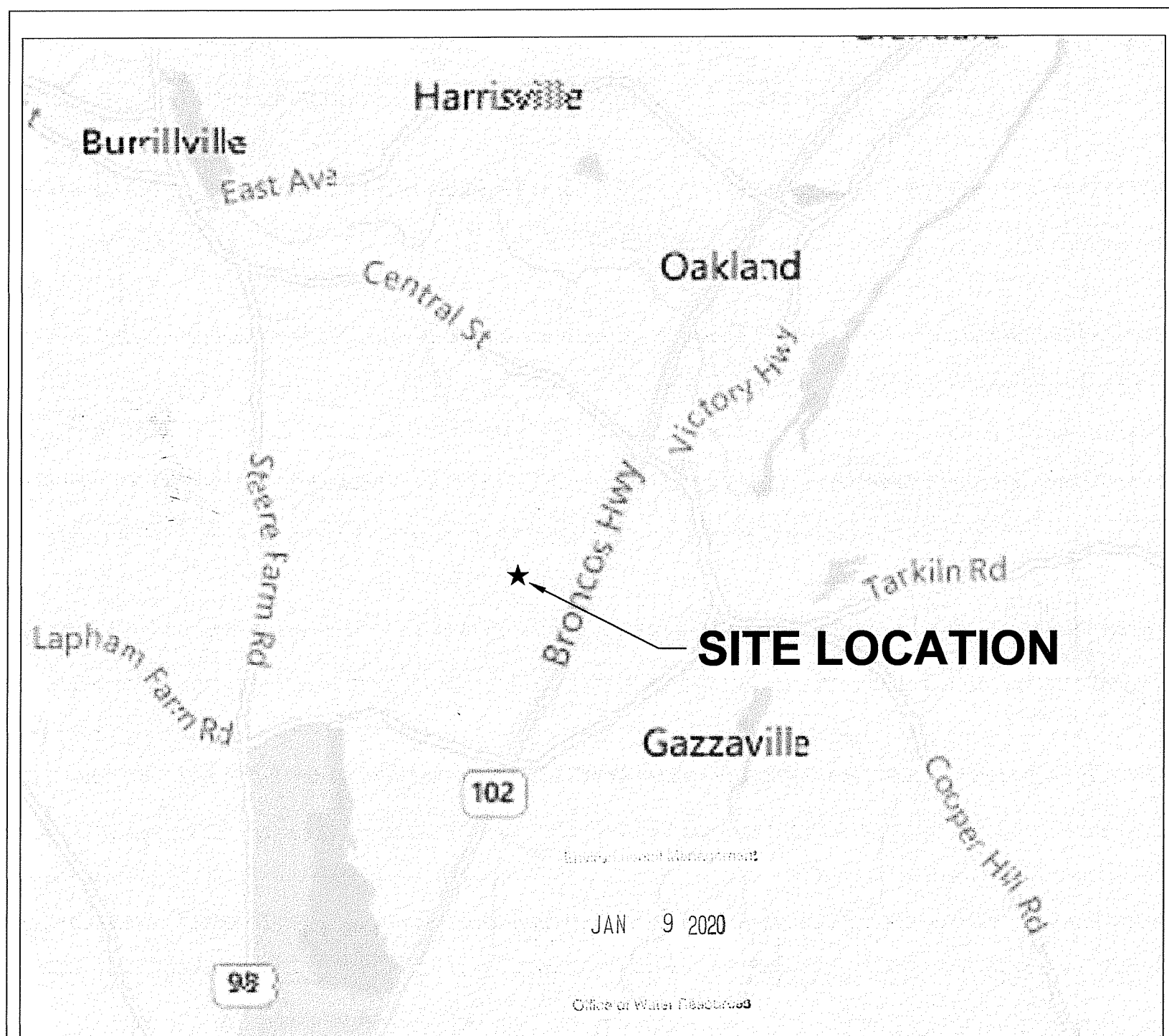


2019.12.20  
*Jason Gold* 17:03:54  
-05'00'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED MAR 04 2020 FILE # 20-0007  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

**Sheet List Table**

Sheet Number	Sheet Title
1	COVER
2	NOTES - N-1
3	EROSION AND SEDIMENT CONTROL - EC-1
4	DETAILS - D-1
ATTACHMENTS	
ATTACHMENT 1: "ALTA/NSPS LAND TITLE SURVEY", DATED 09/5/2018, LAST REVISED 02/15/2019 DIPRETE ENGINEERING, LLC.	



LOCATION MAP  
SCALE: 1"=2,000'



**FOR PERMITTING ONLY**

**GENERAL NOTES:**

- SOILS RESOURCES DATA FROM USGS NRCS WEB SOIL SURVEY, ACCESSED ON 04/23/2018.
- 2011 LIDAR DATA FROM RHODE ISLAND GEOGRAPHIC INFORMATION SYSTEM (RIGIS).
- BASE PLAN REFERENCES "ALTA/NSPS LAND TITLE SURVEY", DANIELE DRIVE, BURRILLVILLE, RI, DATED 9/05/2018, PREPARED BY DIPRETE ENGINEERING, LLC., LAST REVISED 2/15/19.
- WETLANDS FLAGGED BY ESS ON 10/15/2017, 10/20/2017, AND 03/01/2018.
- DEPICTED WETLAND EDGE FLAGS X1 THROUGH X11, U1 THROUGH U26, W1 THROUGH W16, W19 THROUGH W158, Y1 THROUGH Y4, Y18 THROUGH Y29, Z1 THROUGH Z24 AND Z37 THROUGH Z55 AND THE EDGES OF THE ASSOCIATED 50 FOOT PERIMETER WETLANDS HAVE NOT BEEN VERIFIED BY RIDEM AS PART OF THIS APPLICATION.
- STREAM EDGES DEPICTED WITHIN THE SWAMP DELINEATED BY THE W FLAG SERIES AND ADJACENT TO WETLAND EDGE FLAGS Z22 TO Z13 ALONG WITH THEIR ASSOCIATED 100 FOOT RIVERBANK WETLAND EDGES HAVE NOT BEEN VERIFIED BY RIDEM AS PART OF THIS APPLICATION.
- ALL PHOTOVOLTAIC AND ELECTRICAL INFORMATION PROVIDED TO ESS BY BURRILLVILLE SOLAR, LLC.
- ALL WORK HEREIN IS IN SUPPORT OF RIDEM PERMIT 18-0267.

**CONSTRUCTION NOTES:**

- NO CHANGES ARE TO BE MADE UNLESS AUTHORIZED BY THE OWNER.
- ALL PRODUCTS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL SAFETY CODES, REGULATIONS, LEGAL REQUIREMENTS, AND PERMIT CONDITIONS.
- ALL NECESSARY FEES AND CONSTRUCTION PERMITS SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.
- WORK WITHIN PUBLIC WAYS SHALL COMPLY WITH APPLICABLE MUNICIPAL AND STATE REQUIREMENTS.
- THE CONTRACTOR SHALL DISPOSE OF ALL RUBBISH AND DEBRIS IN ACCORDANCE WITH THE SPECIFICATIONS AND ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR SHALL MAINTAIN THE PROJECT SITE IN SAFE AND CLEAN CONDITION.
- THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, STREETS, PAVEMENTS, SIGNS, HYDRANTS, HIGHWAY GUARDS, CURBING, EDGING, TREES AND PLANTINGS, ETC. ON OR OFF THE PREMISES, AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AT HIS/HER OWN EXPENSE AS REQUIRED BY THE ENGINEER ANY ITEMS DAMAGED AS A RESULT OF THE CONTRACTOR'S WORK.
- THE CONTRACTOR SHALL USE DESIGNATED LOCATIONS WITHIN THE ESTABLISHED LIMITS OF DISTURBANCE TO ACCESS THE SITE.
- DUST CONTROL PROCEDURES AND PRACTICES SHALL BE USED TO SUPPRESS DUST DURING THE CONSTRUCTION PROCESS. EXAMPLES OF DUST CONTROL MEASURES INCLUDE DAILY SWEEPING OF DANIELE STREET, WATER TREATMENT, MULCH, AND TEMPORARY VEGETATION.
- CARE SHOULD BE TAKEN TO THE BEST OF THE OPERATOR'S ABILITY TO AVOID DISTURBING LARGE AREAS PRIOR TO ANTICIPATED PRECIPITATION EVENTS. AT A MINIMUM, STORM EVENTS MUST BE MONITORED AND TRACKED IN ORDER TO DETERMINE WHEN POST-STORM EVENT INSPECTIONS MUST BE CONDUCTED. INSPECTIONS MUST BE CONDUCTED AND DOCUMENTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS AFTER ANY STORM EVENT, WHICH GENERATES AT LEAST 0.25 INCHES OF RAINFALL PER TWENTY-FOUR (24) HOUR PERIOD AND/OR AFTER A SIGNIFICANT AMOUNT OF RUNOFF OR SNOWMELT.
- IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, SEDIMENT, GROUNDWATER, OR OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
- FILL MATERIAL SHALL BE FREE OF STUMPS, WOODS, ROOTS, AND OTHER DELETERIOUS MATERIAL.
- ALL WORK HEREIN SHALL CONFORM TO RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED AUGUST 2013, AS SUPPLEMENTED AND RHODE ISLAND STANDARD DETAILS, JUNE 15, 1998, AS AMENDED BY REVISION. THIS WORK MAY INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING:
  - SECTION 201 - SITE PREPARATION
  - SECTION 206 - PERIMETER EROSION CONTROLS
  - SECTION 211 - CONSTRUCTION ACCESSSES
  - SECTION 212 - MAINTENANCE AND CLEANING OF EROSION CONTROLS
  - SECTION 301 - AGGREGATE AND GRAVEL BASE COURSES
  - SECTION 907 - DUST CONTROL
  - SECTION 931 - CLEANING AND SWEEPING PAVEMENT
  - SECTION 934 - FIELD CONTROL AND CONSTRUCTION LAYOUT
  - SECTION 936 - MOBILIZATION AND DEMOBILIZATION
  - SECTION L01 - LOAM, PLANTABLE SOIL OR HIGH ORGANIC SOIL
  - SECTION L02 - SEEDING

**UTILITIES NOTES:**

- THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO EXCAVATION.
- THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES AND UTILITY COMPANIES, IN WRITING, A MINIMUM OF 72 HOURS PRIOR TO ANY CONSTRUCTION WITHIN 15 FEET OF A UTILITY LINE.
- EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. ADDITIONAL UTILITIES MAY EXIST THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES BOTH UNDERGROUND AND OVERHEAD BEFORE EXCAVATION BEGINS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT DISSEAT, NOTIFY ALL NON-MEMBER UTILITY COMPANIES AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO COMMENCING WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY, SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS AND FOR PERFORMING ANY NECESSARY WORK INVOLVED IN CONNECTION WITH THE DISCONTINUANCE OR JURISDICTION OF THE UTILITY COMPANIES, SUCH AS ELECTRICITY, TELEPHONE, WATER, GAS AND ANY SYSTEM OR SYSTEMS WHICH WILL BE AFFECTED BY THE WORK TO BE PERFORMED UNDER THIS CONTRACT.
- UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES.
- IF REQUIRED, OVERHEAD LINES SHALL BE RELOCATED BY THE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.

**SEDIMENTATION & EROSION CONTROL NOTES:**

- THE CONTRACTOR IS REQUIRED TO REVIEW AND IMPLEMENT THE SOIL EROSION AND SEDIMENT CONTROL PLAN THROUGHOUT CONSTRUCTION. THE PLAN MUST BE MAINTAINED AT THE SITE. IT IS THE OPERATOR'S RESPONSIBILITY TO MANAGE THE SITE DURING EACH CONSTRUCTION PHASE SO AS TO PREVENT POLLUTANTS FROM LEAVING THE SITE. THIS MAY REQUIRE THE CONTRACTOR TO REVISE AND AMEND THE SESC PLAN DURING CONSTRUCTION TO ADDRESS VARYING SITE AND/OR WEATHER CONDITIONS, SUCH AS ADDING OR REALIGNING EROSION OR SEDIMENT CONTROLS TO ENSURE THE SESC PLAN REMAINS COMPLIANT WITH THE RIDES CONSTRUCTION GENERAL PERMIT.
- EROSION CONTROL MEASURES SHALL BE INSTALLED AS SHOWN HEREIN OR AS DIRECTED BY THE ENGINEER.
- PERIMETER SOIL AND EROSION CONTROLS SHALL BE PLACED PRIOR TO ANY SOIL DISTURBANCE ACTIVITIES WITHIN THE TRIBUTARY WATERSHED. CONTRACTOR TO NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES. ALL SOIL AND EROSION CONTROLS SHALL BE INSPECTED AND REPAIRED AS NECESSARY.
- ALL TEMPORARY EROSION, RUNOFF, SEDIMENT, AND POLLUTION PREVENTION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE BEGINNING OF EACH PHASE OF EARTH DISTURBANCE.
- EARTH DISTURBANCE SHALL BE PHASED TO AVOID GREATER THAN 5 ACRES OF DISTURBANCE AT ONE TIME. DISTURBED AREAS IN EACH PHASE SHALL BE TEMPORARILY STABILIZED PRIOR TO COMPLETION.
- EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EACH STORM EVENT GREATER THAN 0.25 INCHES OF RAINFALL. ALL DAMAGED EROSION AND SEDIMENT CONTROLS SHALL BE REPLACED. ACCUMULATED SEDIMENT SHALL BE STOCKPILED FOR LATER REUSE.
- SURFACE ROUGHENING IMPLEMENTS SHALL BE USED ON SLOPES WHOSE GRADIENTS ARE BETWEEN 2:1 AND 4:1, INCLUSIVE, AS DESCRIBED IN THE MOST RECENT RIDES ISLAND SEDIMENT AND EROSION CONTROL HANDBOOK, SECTION 4. SURFACE ROUGHENING IMPLEMENTS INCLUDE BUT ARE NOT LIMITED TO:
  - DISCS
  - TILLERS
  - SPRING-TOOTH HARROWS
  - DOZER TRACK CLEATS
  - FRONT LOADER BUCKET TEETH

GROOVES MAY BE MADE WITH ANY APPROPRIATE IMPLEMENT, AS MENTIONED ABOVE, WHICH CAN BE SAFELY OPERATED ON THE SLOPE AND WHICH WILL NOT CAUSE UNDESIRABLE UNDER COMPACTION. GROOVES SHALL NOT BE LESS THAN 3-INCHES DEEP NOR FURTHER THAN 15-INCHES APART. GROOVES SHALL NOT BE LESS THAN 3-INCHES DEEP NOR FURTHER THAN 15-INCHES APART. GROOVES SHALL NOT BE LESS THAN 3-INCHES DEEP NOR FURTHER THAN 15-INCHES APART. GROOVES SHALL NOT BE LESS THAN 3-INCHES DEEP NOR FURTHER THAN 15-INCHES APART. GROOVES SHALL NOT BE LESS THAN 3-INCHES DEEP NOR FURTHER THAN 15-INCHES APART.

AREAS WHICH WILL NOT BE MOWED:  
CUT SLOPES: GROOVES SHALL NOT BE LESS THAN 3 INCHES DEEP NOR FURTHER THAN 15 INCHES APART. FILL SLOPES: SHALL BE GROOVED OR ALLOWED TO REMAIN ROUGH AS THEY ARE CONSTRUCTED.

AREAS WHICH WILL BE MOWED:  
EXCESSIVE ROUGHNESS IS UNDESIRABLE WHERE MOWING IS PLANNED. AREAS TO BE SEEDED AND MOWED MAY BE ROUGHENED WITH SHOULDER WHEELS THAT REMAIN AFTER HARROWING, RAKING, OR USING A CULTIPACKER-SEEDER. DEPRESSIONS FORMED BY SUCH EQUIPMENT SHOULD BE AT LEAST 1 INCH DEEP AND NOT FURTHER THAN 12 INCHES APART. THE FINAL PASS OF ANY EQUIPMENT SHALL BE ON THE CONTOUR (PERPENDICULAR TO THE DIRECTION OF THE SLOPE).

CUT SLOPES:  
GROOVES MAY BE MADE WITH ANY APPROPRIATE IMPLEMENT WHICH CAN BE SAFELY OPERATED ON THE SLOPE AND WHICH WILL NOT CAUSE UNDESIRABLE COMPACTION.

FILL SLOPES: AS LIFTS OF THE FILL ARE CONSTRUCTED, SOIL AND ROCK MATERIALS MAY BE ALLOWED TO FALL NATURALLY ONTO THE SLOPE SURFACE AFTER FILLING IS COMPLETED. AFTER FILLING IS COMPLETED, IF THE SURFACE IS NOT SUFFICIENTLY ROUGHENED, GROOVE OR TRACK THE SURFACE THE SAME AS FOR CUT SLOPES. SLOPES SHALL NOT BE BLADED OR SCRAPED TO PRODUCE A SMOOTH, HARD SURFACE, EXCEPT WHERE SLOPES ARE MEANT TO BE USED AS A TRAVELWAY FOR VEHICLES AND ADDITIONAL EROSION AND SEDIMENT CONTROLS ARE INSTALLED.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING EROSION CONTROL MEASURES TO PREVENT OFF-SITE TRACKING OF EARTH, SEDIMENT AND DEBRIS.
- INITIATE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THE AREA HAS TEMPORARILY OR PERMANENTLY CEASED. ANY DISTURBED AREA THAT WILL NOT HAVE ACTIVE CONSTRUCTION ACTIVITY OCCURRING WITHIN 14 DAYS MUST BE STABILIZED IN ACCORDANCE WITH THE RI SESC HANDBOOK USING WOOD CHIP MULCH, STRAW MULCH, TEMPORARY SEEDING, OR PERMANENT SEEDING.
- ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF FOUR INCHES OF LOAM PLACED BEFORE BEING PERMANENTLY SEEDED OR MULCHED. LOAM SHALL BE FREE OF DEBRIS. LOAM FROM AN OFF SITE BORROW SOURCE SHALL BE SAMPLED AND APPROVED FOR USE BY THE ENGINEER PRIOR TO ITS DELIVERY TO THE SITE.
- EROSION CONTROL MEASURES SHALL BE REMOVED WHEN THE DISTURBED AREA IS STABILIZED OR AS SPECIFIED BY THE ENGINEER. DISTURBED AREA RESULTING FROM THE FILTER SOCK REMOVAL OPERATION SHALL BE PERMANENTLY SEEDED. ALL ACCUMULATED SEDIMENT SHALL BE STOCKPILED FOR LATER REUSE.
- TEMPORARY STRAW MULCH OR TEMPORARY EROSION CONTROL BLANKETS SHALL BE USED WHERE NON-VEGETATIVE COVER IS REQUIRED FOR A PERIOD GREATER THAN 14 DAYS BUT LESS THAN SIX MONTHS. MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MACHINE RESULTING IN 100% COVERAGE OF THE DISTURBED SOIL. IF ANCHORING IS NECESSARY, TACKIFIERS AND/OR NETTING EITHER WITH THE MULCH OR IMMEDIATELY FOLLOWING MULCH APPLICATION SHALL BE USED.
- TEMPORARY SEEDING SHALL BE USED WHERE VEGETATIVE COVER IS REQUIRED FOR A PERIOD GREATER THAN ONE MONTH BUT LESS THAN TWELVE MONTHS ON DISTURBED SOIL AREAS. RAPIDLY GROWING ANNUAL GRASSES WILL BE UNIFORMLY APPLIED AT THE RATE ASSOCIATED WITH HYDRAULIC APPLICATION (HYDROSEEDING). THE SITE SHALL BE CHECKED PERIODICALLY TO ASSESS THE GROWTH OF THE PLANTS. IF SEEDING FAILS TO GROW, THE AREA SHALL BE RE-ESTABLISHED TO PROVIDE ADEQUATE EROSION CONTROL. THE SEED MIXTURE SHALL BE UNIFORMLY APPLIED PERVIOUSLY APPLIED, THE WOOD CHIPS SHOULD BE REMOVED OR TILLED INTO THE GROUND AND ADDITIONAL NITROGEN APPLIED PRIOR TO SEEDING. NITROGEN APPLICATION RATE SHALL BE DETERMINED BY SOIL TEST AT TIME OF SEEDING.
- PERMANENT SEEDING SHALL BE USED ON AREAS WHERE PERMANENT VEGETATIVE COVER IS NEEDED TO STABILIZE THE SOIL AND REDUCE EROSION AND SEDIMENTATION. RAPIDLY GROWING ANNUAL GRASSES SHALL BE UNIFORMLY APPLIED AT THE RATE ASSOCIATED WITH HYDRAULIC APPLICATION (HYDROSEEDING). THE SEED MIXTURES TO BE USED FOR PERMANENT STABILIZATION ARE SHOWN HEREIN. IF SEEDING IS PERFORMED WHERE WOOD CHIPS HAVE BEEN PREVIOUSLY APPLIED, THE WOOD CHIPS SHOULD BE REMOVED OR TILLED INTO THE GROUND AND ADDITIONAL NITROGEN APPLIED PRIOR TO SEEDING. NITROGEN APPLICATION RATE SHALL BE DETERMINED BY SOIL TEST AT TIME OF SEEDING.
- SEEDING SHALL OCCUR PRIOR TO OCTOBER 15TH. AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION BY NOVEMBER 15TH, MUST BE STABILIZED THROUGH THE USE OF NON-VEGETATIVE EROSION CONTROL MEASURES. AREAS SEEDED BETWEEN MAY 15TH AND AUGUST 15TH SHALL BE COVERED WITH STRAW MULCH. DURING THESE MONTHS, TEMPORARY AND PERMANENT SEEDED AREAS SHALL BE MULCHED IMMEDIATELY FOLLOWING SEEDING.
- TREATMENT CHEMICALS SHALL NOT BE APPLIED.
- WOOD CHIP MULCH GENERATED ON-SITE MAY BE APPLIED TO SLOPES 3:1 OR FLATTER FOR TEMPORARY EROSION CONTROL WHEN SOIL AND SITE CONDITIONS ARE SUITABLE FOR SPREADING. ALL MULCH MATERIAL SHALL BE CAPABLE OF BEING APPLIED EVENLY SUCH THAT IT PROVIDES 100% INITIAL SOIL COVERAGE AND ADHERES TO THE SOIL SURFACE. DOES NOT SLIP ON SLOPES WHEN IT RAINS OR IS WATERED, DOES NOT BLOW OFF SITE AND DISSIPATES RAINDROP SPLASH. SPREAD WOOD CHIP MULCH UNIFORMLY RESULTING IN 100% COVERAGE OF DISTURBED SOIL TO BE STABILIZED. SUGGESTED APPLICATION RATE IS 6 CY/1,000 SQ. FT. DO NOT SPREAD WOOD CHIPS ON SLOPES SO THICK THAT IT WILL SLIP OR SLUMP.

WHERE SOIL PROTECTION FALLS BELOW 100%, REAPPLY SOIL PROTECTION WITHIN 48 HOURS. DETERMINE THE CAUSE OF THE FAILURE. IF FAILURE WAS THE RESULT OF WIND CONSIDER APPLYING A TACKIFIER OR NETTING. IF FAILURE WAS CAUSED BY CONCENTRATING WATER, INSTALL ADDITIONAL MEASURES TO CONTROL WATER AND SEDIMENT MOVEMENT, REPAIR EROSION DAMAGE, REAPPLY MULCH WITH ANCHORING OR USE TEMPORARY EROSION CONTROL BLANKETS.

**EXISTING CONDITIONS LEGEND**

- 100-FOOT RIVERBANK WETLAND
- 50-FOOT PERIMETER WETLAND
- YARD SETBACK

**PROPOSED CONDITIONS LEGEND**

- LOD LIMITS OF DISTURBANCE
- CRUSHED STONE
- F58 8-INCH FILTER SOCK

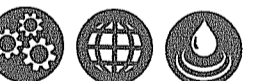


Jason Gold 2019.12.20  
17:03:33 -05'00'

FOR PERMITTING ONLY

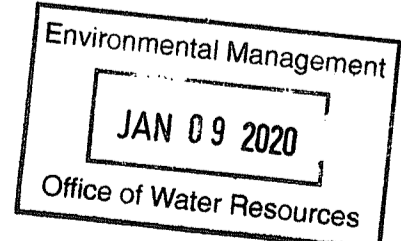


404 Wyman Street, Suite 375  
Waltham, Massachusetts 02451  
p 781.419.7696  
www.essgroup.com



No.	REVISION	DATE	APP BY

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED MAR 04 2020 FILE # 20-007  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

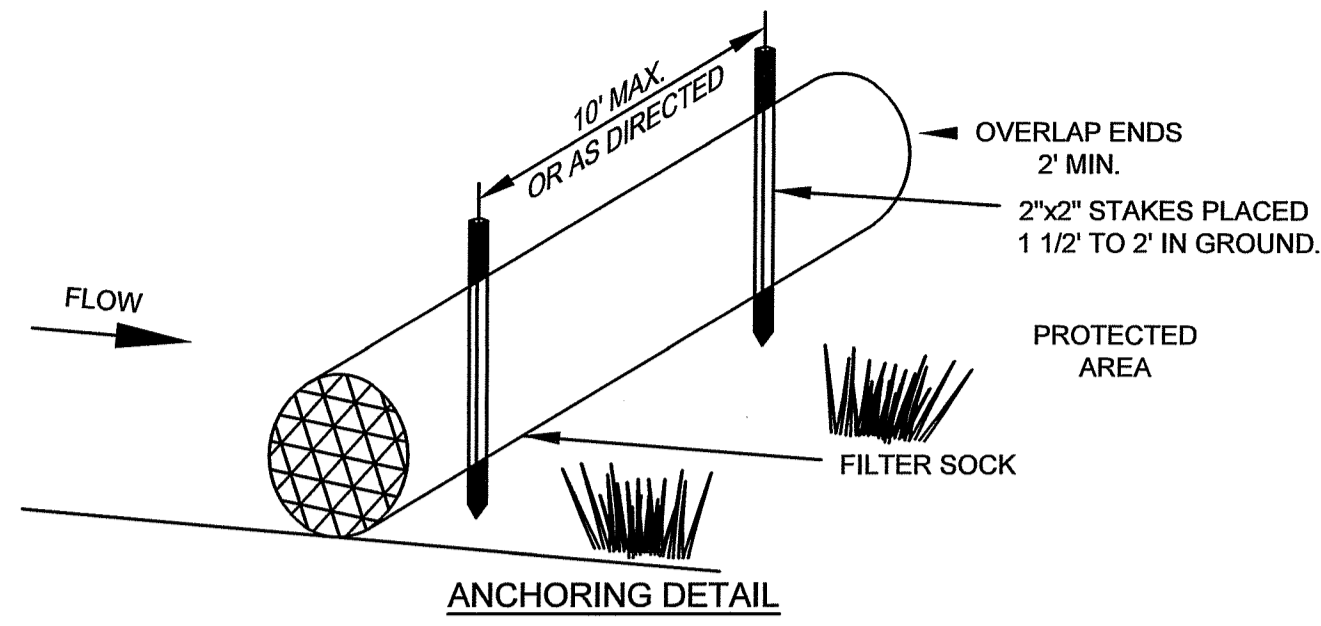


**BURRILLVILLE SOLAR  
AP 195 LOT 15  
DANIELE DRIVE  
BURRILLVILLE, RI**

**NOTES**

PROJECT No.: B456-002	DRAWING No.
DATE OF ISSUE: 12/20/19	<b>N-1</b>
SHEET No.: 2 OF 4	
SCALE:	

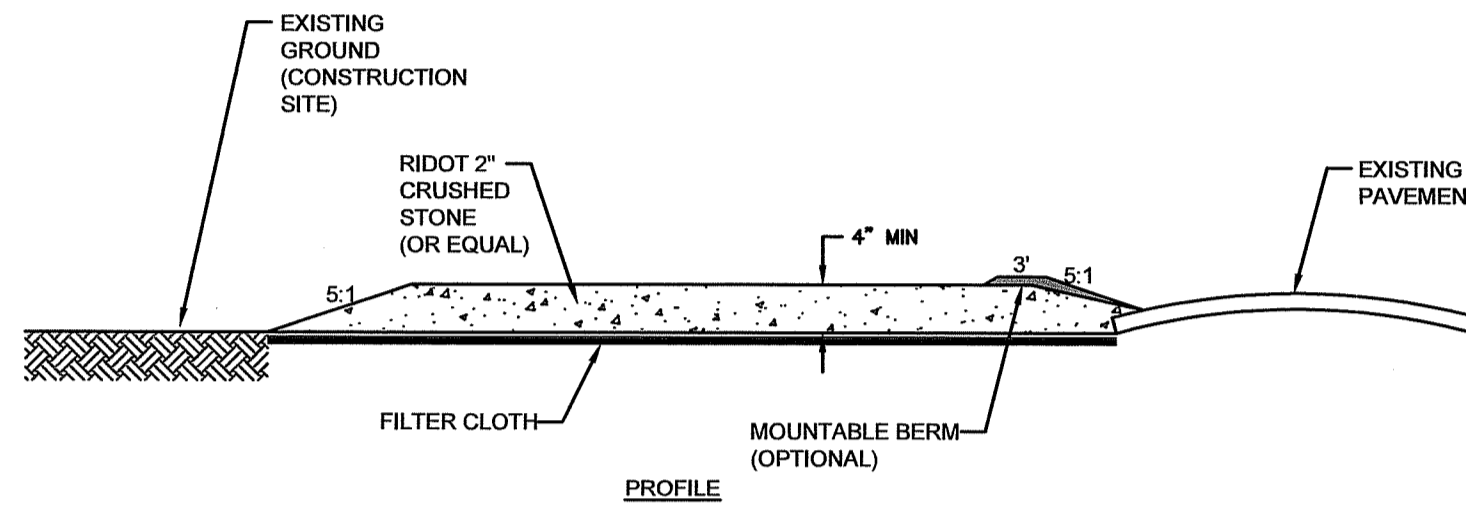




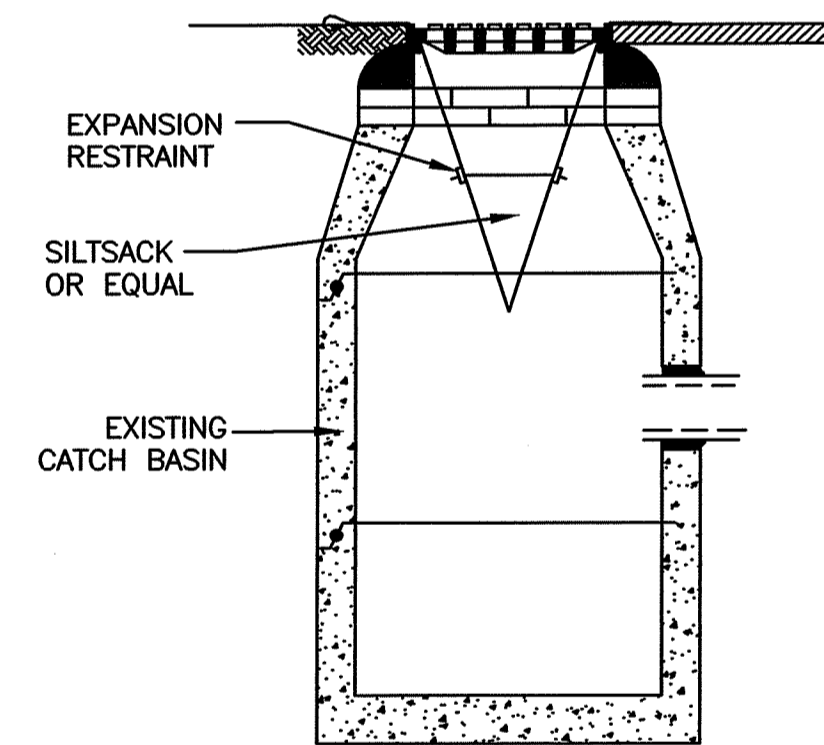
**CONSTRUCTION SPECIFICATIONS**

1. FILTER SOCKS SHALL BE FILTREXX SILTSOXX OR EQUIVALENT APPROVED BY THE OWNER. FILTER SOCK AND COMPOST MATERIALS SHALL BE IN ACCORDANCE WITH AASHTO MP 9-06, LATEST REVISION.
2. FILTER SOCKS OF DIAMETER AS SHOWN ON PLAN.
3. FILTER SOCKS SHALL BE PLACED IN ACCORDANCE WITH THIS PLAN SET, IN A ROW WITH ENDS OVERLAPPING 2 FEET (MIN.) AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
4. FILTER SOCKS SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES, 10 FEET ON CENTER (MAX).
5. INSPECTION SHALL BE FREQUENT AND REPAIR AND/OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. FILTER SOCKS SHALL NOT BE MOVED TO OTHER LOCATIONS IN THE PROJECT ONCE PLACED.
7. REMOVE FILTER SOCKS AFTER SITE HAS BEEN STABILIZED. PERIMETER VEGETATED FILTER SOCKS MAY REMAIN.

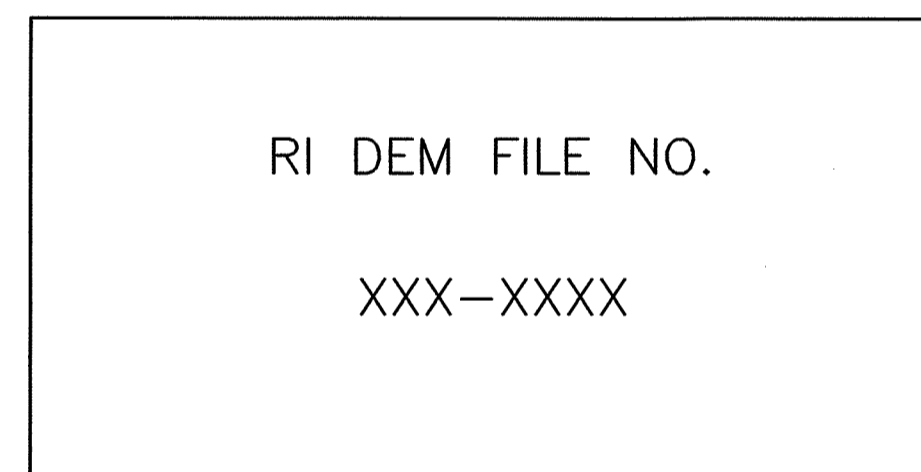
1  
4 **TYPICAL FILTER SOCK DETAIL**  
SCALE: NTS



2  
4 **TYPICAL LAYDOWN AREA DETAIL**  
SCALE: NTS

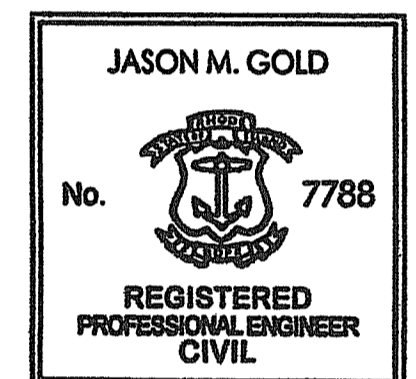


3  
4 **TYPICAL SILT SACK DETAIL**  
SCALE: NTS

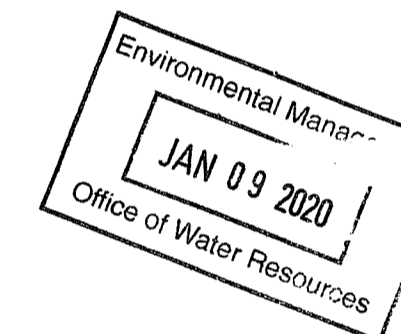


- NOTES:**
1. SIGN SHALL BE 12 INCHES WIDE BY 18 INCHES LONG AND MADE OF WEATHER RESISTANT MATERIAL.
  2. THE LOCATION OF THE SIGN IS TO BE DETERMINED BY THE ENGINEER AND THE OWNER.
  3. SIGN BACKGROUND SHALL BE WHITE.
  4. SIGN LETTERING SHALL BE BLACK, AND AT LEAST 1/2 INCHES TALL.
  5. SIGN SHALL NOT BE ATTACHED TO A LIVE TREE.

4  
4 **RIDEM WETLANDS SIGN**  
SCALE: NTS



2019.12.20  
Jason Gold 17:02:53  
-05'00'



**FOR PERMITTING ONLY**



404 Wyman Street, Suite 375  
Waltham, Massachusetts 02451  
p 781.419.7696  
www.essgroup.com



No.	REVISION	DATE	APP BY

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED MAR 04 2020 FILE # 20-0007  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

**BURRILLVILLE SOLAR  
AP 195 LOT 15  
DANIELE DRIVE  
BURRILLVILLE, RI**

**DETAILS**

PROJECT No.: B456-002  
DATE OF ISSUE: 12/20/19  
SHEET No.: 4 OF 4  
SCALE: NTS

DRAWING No.  
**D-1**

**Legend**

- NOT ALL ITEMS SHOWN WILL APPEAR ON THE SURVEY
- |          |                    |       |                           |
|----------|--------------------|-------|---------------------------|
| BUILDING |                    | ▲/△   | NAIL FOUND/SET            |
| AP       | ASSESSOR'S PLAT    | ●/◎   | DRILL HOLE FOUND/SET      |
| N/F      | NOW OR FORMERLY    | ■/◻   | IRON ROD/PIPE FOUND/SET   |
| (D)      | DEED               | ⊕     | BOUND FOUND/SET           |
| (M)      | MEASURED           | ⊙     | SIGN                      |
| (CA)     | CHORD ANGLE        | ⊙ CB  | SOIL EVALUATION           |
| HC       | HANDICAPPED        | ⊙ DMB | DOUBLE CATCH BASIN        |
|          | PROPERTY LINE      | ⊙ DCH | DRAINAGE MANHOLE          |
|          | ASSESSORS LINE     | ⊙ FES | FLARED END SECTION        |
|          | TREELINE           | ⊙ GP  | GUY POLE                  |
|          | GUARDRAIL          | ⊙ EMH | ELECTRIC MANHOLE/HANDHOLE |
|          | FENCE              | ⊙ UP  | UTILITY/POWER POLE        |
|          | RETAINING WALL     | ⊙ SMH | SEWER/SEPTIC MANHOLE      |
|          | STONE WALL         |       | SEWER VALVE               |
|          | MINOR CONTOUR LINE |       | CLEANOUT                  |
|          | MAJOR CONTOUR LINE |       | IRRIGATION VALVE          |
|          | W                  |       | WATER VALVE               |
|          | S                  |       | WELL                      |
|          | SM                 |       | MONITORING WELL           |
|          | SEWER LINE         |       | UNKNOWN MANHOLE           |
|          | SEWER FORCE MAIN   |       | GAS VALVE                 |
|          | GAS LINE           |       | GAS VALVE                 |
|          | E                  |       | ELECTRIC LINE             |
|          | CHW                |       | OVERHEAD WIRES            |
|          | D                  |       | DRAINAGE LINE             |
|          |                    | ▲ B-1 | WETLAND FLAG              |
|          |                    | ⊙     | BENCH MARK                |
|          |                    | ⊙     | SHRUB                     |
|          |                    | ⊙     | TREE                      |

**ALTA/NSPS Land Title Survey Notes**

1. THE ADDRESS OF PARCEL IS 0 DANIELE DRIVE.
2. THERE WERE NO PARKING SPACES, OBSERVED AT THE TIME OF THE FIELD SURVEY.
3. THE PARCEL HAS DIRECT ACCESS TO DANIELE DRIVE, A PUBLIC RIGHT OF WAY.
4. THERE ARE NO DIVIDING/PARTY WALLS LOCATED ALONG BOUNDARY OF THE PARCEL.
5. THERE WAS NO OBSERVED EVIDENCE OF EARTH MOVING WORK, BUILDING CONSTRUCTION AT THE TIME OF THE FIELD SURVEY.
6. THERE WAS NO OBVIOUS EVIDENCE OBSERVED OF A SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL ON SITE AT THE TIME OF THE FIELD SURVEY. DIPRETE ENGINEERING IS NOT ACTING AS AN EXPERT IN ENVIRONMENTAL MATTERS IN REGARDS TO THIS SURVEY AND IS NOT RESPONSIBLE FOR WHAT A PHASE ONE ENVIRONMENTAL ASSESSMENTS OF THE SUBJECT SITE WOULD REVEAL.
7. RIGHT OF WAY LINES ADJACENT TO SUBJECT PARCEL ARE AS SHOWN.
8. THERE WAS NO EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS OBSERVED AT THE TIME OF THE FIELD SURVEY.
9. WETLAND LOCATIONS SHOWN BASED ON FIELD SURVEY BY DIPRETE ENGINEERING. WETLAND FLAGS WERE DELINEATED BY ESS GROUP, INC
10. SURVEY BASED ON TITLE COMMITMENT #PC 30715, EFFECTIVE DATA APRIL 28, 2017 BY CATC.

**Utility Notes**

1. ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN WERE PROVIDED BY OTHERS AND ARE APPROXIMATE ONLY. LOCATIONS MUST BE DETERMINED IN THE FIELD BEFORE DESIGNING, EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAIRING. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS SURVEY. (PLEASE CONTACT DIGSAFE 72 WORKING HOURS PRIOR TO ANY CONSTRUCTION AT 1-888-344-7233). DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR MISSING UNDERGROUND UTILITIES, EITHER IN SERVICE OR ABANDONED, NOT OBSERVED AT THE TIME OF THE SURVEY. DIPRETE ENGINEERING ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
2. UNDERGROUND WATER INFORMATION OBTAINED FROM CITY RECORDS.
  - 2.1. WATER SERVICE LOCATION FOR SUBJECT PARCEL UNKNOWN.
  - 2.2. UNDERGROUND SEWER INFORMATION OBTAINED FROM CITY RECORDS.
    - 3.1. SEWER SERVICE LOCATION FOR SUBJECT PARCEL UNKNOWN.
  - 2.3. UNDERGROUND GAS INFORMATION OBTAINED FROM NATIONAL GRID GIS MAPPING

**Datum Note:**

1. ELEVATIONS SHOWN HEREON, IN U.S. SURVEY FEET, ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), AS DETERMINED BY DIPRETE ENGINEERING USING REAL TIME KINEMATIC G.P.S. OBSERVATIONS.

**Plan References:**

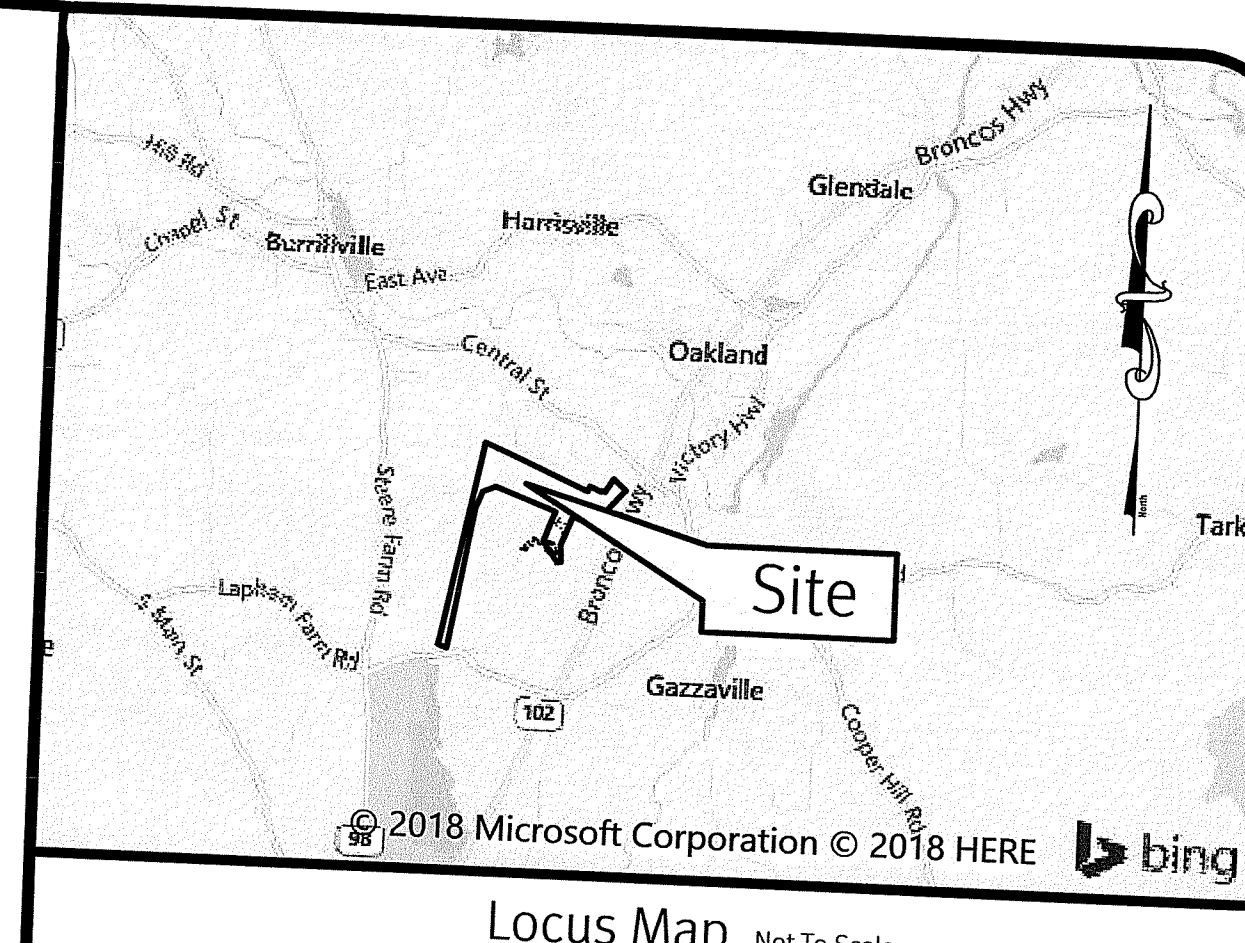
1. REVISED SUBDIVISION OF LAND HEMLOCK FARM, SITUATED IN BURRILLVILLE RHODE ISLAND, PREPARED BY BIBEALU AND FLORENTZ ENGINEERING COMPANY INCORPORATED, DATED JUNE 1986, RECORD AND BOOK 17 PAGE 10.
2. ADMINISTRATIVE SUBDIVISION, PLAN NUMBER ONE DATED FEBRUARY 10TH 2012 PLAN BY CROSSMAN ENGINEERING RECORDED ON PLAT CARD 521.
3. SUBDIVISION PLAN FINAL SUBDIVISION PLANS, LYNNMAR ESTATES PLANT DATED MAY 20TH 1993 PLAN BY MARK W. HUTCHINS AND ASSOCIATES INCORPORATED RECORDED IN PLAT BOOK 22 PAGE 36

**List of Possible Encroachments:**

- ▲ PATHS AND TRAILS CROSS PROPERTY LINE, ACCESS RIGHTS UNKNOWN
- ▲ SHED OVER PROPERTY LINE

**Lidar Note:**

CONTOUR DATA SHOWN ON THIS PLAN CONFORMS TO A T-4 TOPOGRAPHICAL SURVEY STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. SAID DATA IS BASED ON ELEVATION INFORMATION THAT WAS COLLECTED WITH AIRBORNE LIDAR TECHNOLOGY FOR THE ENTIRE AREA OF RHODE ISLAND BETWEEN APRIL 22 AND MAY 6, 2011 AS PART OF THE NORTHEAST LIDAR PROJECT.

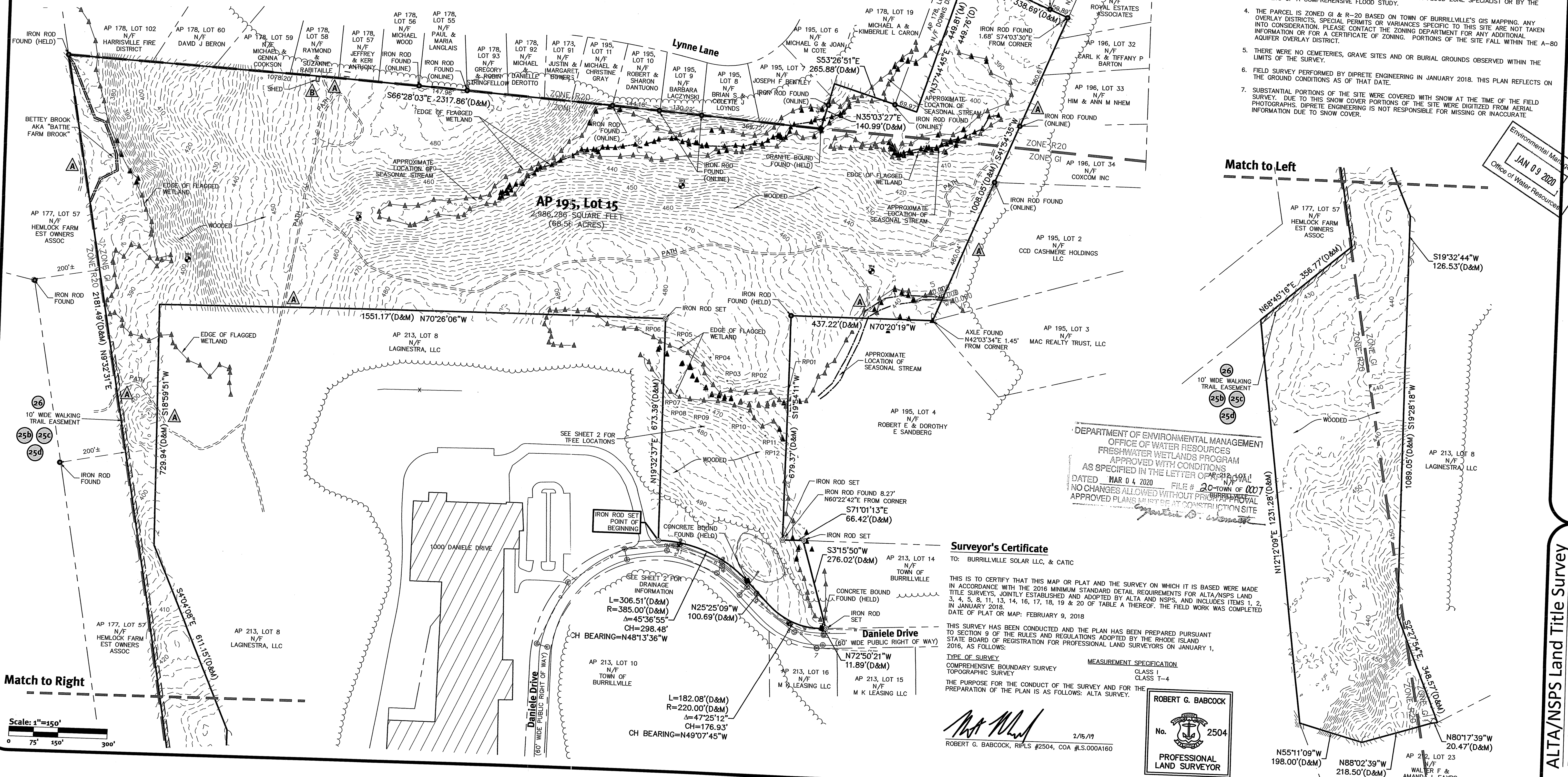


**General Notes**

1. THE PARCEL IS FOUND ON ASSESSOR'S PLAT 195, LOT 15 IN THE TOWN OF BURRILLVILLE, PROVIDENCE COUNTY, RHODE ISLAND.
2. THE OWNER PER DEED BOOK 795, PAGE 212 IS TOWN OF BURRILLVILLE.
3. BASED ON GRAPHICAL PLOTTING ONLY, THE PARCEL IS LOCATED IN X PER FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP 44007001356, DATED MARCH 2, 2009. THIS RESULTS OF A COMPREHENSIVE FLOOD STUDY.
4. THE PARCEL IS ZONED GI & R-20 BASED ON TOWN OF BURRILLVILLE'S GIS MAPPING. ANY OVERLAY DISTRICTS, SPECIAL PERMITS OR VARIANCES SPECIFIC TO THIS SITE ARE NOT TAKEN INTO CONSIDERATION. PLEASE CONTACT THE ZONING DEPARTMENT FOR ANY ADDITIONAL INFORMATION OR FOR A CERTIFICATE OF ZONING. PORTIONS OF THE SITE FALL WITHIN THE A-80 AQUIFER OVERLAY DISTRICT.
5. THERE WERE NO CEMETERIES, GRAVE SITES AND OR BURIAL GROUNDS OBSERVED WITHIN THE LIMITS OF THE SURVEY.
6. FIELD SURVEY PERFORMED BY DIPRETE ENGINEERING IN JANUARY 2018. THIS PLAN REFLECTS ON THE GROUND CONDITIONS AS OF THAT DATE.
7. SUBSTANTIAL PORTIONS OF THE SITE WERE COVERED WITH SNOW AT THE TIME OF THE FIELD SURVEY. DUE TO THIS SNOW COVER PORTIONS OF THE SITE WERE DIGITIZED FROM AERIAL PHOTOGRAPHS. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR MISSING OR INACCURATE INFORMATION DUE TO SNOW COVER.

**Match to Left**

Environmental Management  
Office of Water Resources  
JAN 03 2020



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS  
AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED MAR 04 2020 FILE # 20-TOWN OF BURRILLVILLE  
NO CHANGES ALLOWED WITHOUT PRIOR WRITTEN APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

**Surveyor's Certificate**

TO: BURRILLVILLE SOLAR LLC, & CATC

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, 8, 11, 13, 14, 16, 17, 18, 19 & 20 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED DATE OF PLAT OR MAP: FEBRUARY 9, 2018

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 JANUARY 1, 2016, AS FOLLOWS:

TYPE OF SURVEY: COMPREHENSIVE BOUNDARY SURVEY  
TOPOGRAPHIC SURVEY

MEASUREMENT SPECIFICATION: CLASS 1  
CLASS 1  
CLASS T-4

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: ALTA SURVEY.

ROBERT G. BARCOCK  
No. 2504  
PROFESSIONAL LAND SURVEYOR

ROBERT G. BARCOCK, RIPLS #2504, COA #LS.000A160  
2/15/19

**Diprete Engineering**  
Two Stafford Court, Cranston, RI 02920  
tel: 401-943-1000 fax: 401-944-6006 www.diprete-eng.com

Boston • Providence • Newport

No.	Date	Description	By
1	2/15/19	Survey Location	MB
2	2/15/19	Field Notes	MB
3	2/15/19	Map	MB
4	2/15/19	Final Plat	MB
5	2/15/19	Final Plat	MB

Drawn By: MBT

**ALTA/NSPS Land Title Survey**  
Daniele Drive  
Burrillville, Rhode Island

Client: **Burrillville Solar LLC.**  
20 Park Plaza Suite 210  
Burrillville, RI 02814

DE. REG. NO. 2581-001. Copyright 2018 by Diprete Engineering Associates, Inc.

SHEET 1 OF 2