

PRELIMINARY CIVIL SITE PLAN TITCOMB LANDFILL SOLAR PROJECT

SOUTH HUNT ROAD
AMESBURY
ESSEX COUNTY
MASSACHUSETTS

LAND OWNER/APPLICANT:
CITY OF AMESBURY
PREPARED FOR:



179 LINCOLN STREET, SUITE 500
BOSTON, MA 02111

PREPARED BY:



WANNALANCIT MILLS
650 SUFFOLK STREET, SUITE 200
LOWELL, MA 01854



LOCATION MAP
SCALE 1"=1000'

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FOR PERMITTING
NOT FOR CONSTRUCTION



PROJECT ADDRESS:
SOUTH HUNT ROAD
AMESBURY, MA

APPLICANT:
CITY OF AMESBURY
62 FRIEND STREET
AMESBURY, MA 01813

PREPARED BY:
TRC
WANNALANCKIT MILLS
650 SUFFOLK STREET, SUITE 200
LOWELL, MA 01854



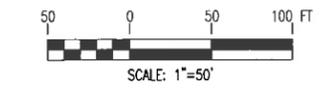
SITE LOCATION

GENERAL NOTES:

- SUBJECT PARCEL IS LOCATED IN ZONE OP - OFFICE PARK ZONE
- THE FOLLOWING DATUMS ARE REPRESENTED HEREON:
HORIZONTAL: MASSACHUSETTS STATE PLANE COORDINATE SYSTEM, NAD 83, MAINLAND ZONE, US FEET.
VERTICAL: NORTH AMERICAN VERTICAL DATUM 88.
- TOPOGRAPHICAL SURVEY PERFORMED BY LAND PLANNING, INC, HANSON, MA. EXISTING CONDITIONS PLAN PROVIDED ON DECEMBER 8, 2015.
- SITE TOPOGRAPHY IS SUPPLEMENTED BY LIDAR DATA OBTAINED BY USGS.
- UNDERGROUND UTILITIES ARE SHOWN BASED ON VISIBLE SURFACE EVIDENCE ONLY AND ARE NOT CERTIFIED.

LEGEND (EXISTING)

- OHW --- OVERHEAD WIRES
- 670 --- EXISTING CONTOUR LINE
- GAS VENT
- ~ TREE/BRUSH LINE
- ⊕ UTILITY POLE
- ⊕ MONITORING WELL
- ▨ STONE SWALE
- - - - - APPROXIMATE EXTENT OF LANDFILL CAP
- - - - - DRAINAGE BASIN FENCELINE
- - - - - PARCEL BOUNDARIES
- - - - - PERIMETER FENCELINE



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NOT FOR CONSTRUCTION

| NO. | REVISION | DATE | BY | CK | P.E. STAMPED | P.E. No. |
|-----|---------------------------|------------|-----|-----|--------------|----------|
| A | DRAFT PRELIMINARY DESIGN | 02/15/2016 | AHC | DWA | REJ | 48086 |
| B | FINAL PRELIMINARY DESIGN | 02/29/2016 | AHC | DWA | REJ | 48086 |
| C | COMMENTS FROM MA DEP | 06/02/2016 | SPB | - | REJ | 48086 |
| D | TOWN OF AMESBURY COMMENTS | 10/07/2016 | TND | DWA | REJ | 48086 |
| | | | | | | |
| | | | | | | |



| | |
|-------------------|--------------|
| CLIENT APPROVAL | AHC DESIGNED |
| | AHC DRAWN |
| APPROVED BY | DWA CHECKED |
| SUNEDISON COMPANY | REJ APPROVED |
| 02/19/2016 DATE | TRC REVIEWED |
| | TRC |

TITCOMB LANDFILL

SunEdison

EXISTING CONDITIONS PLAN

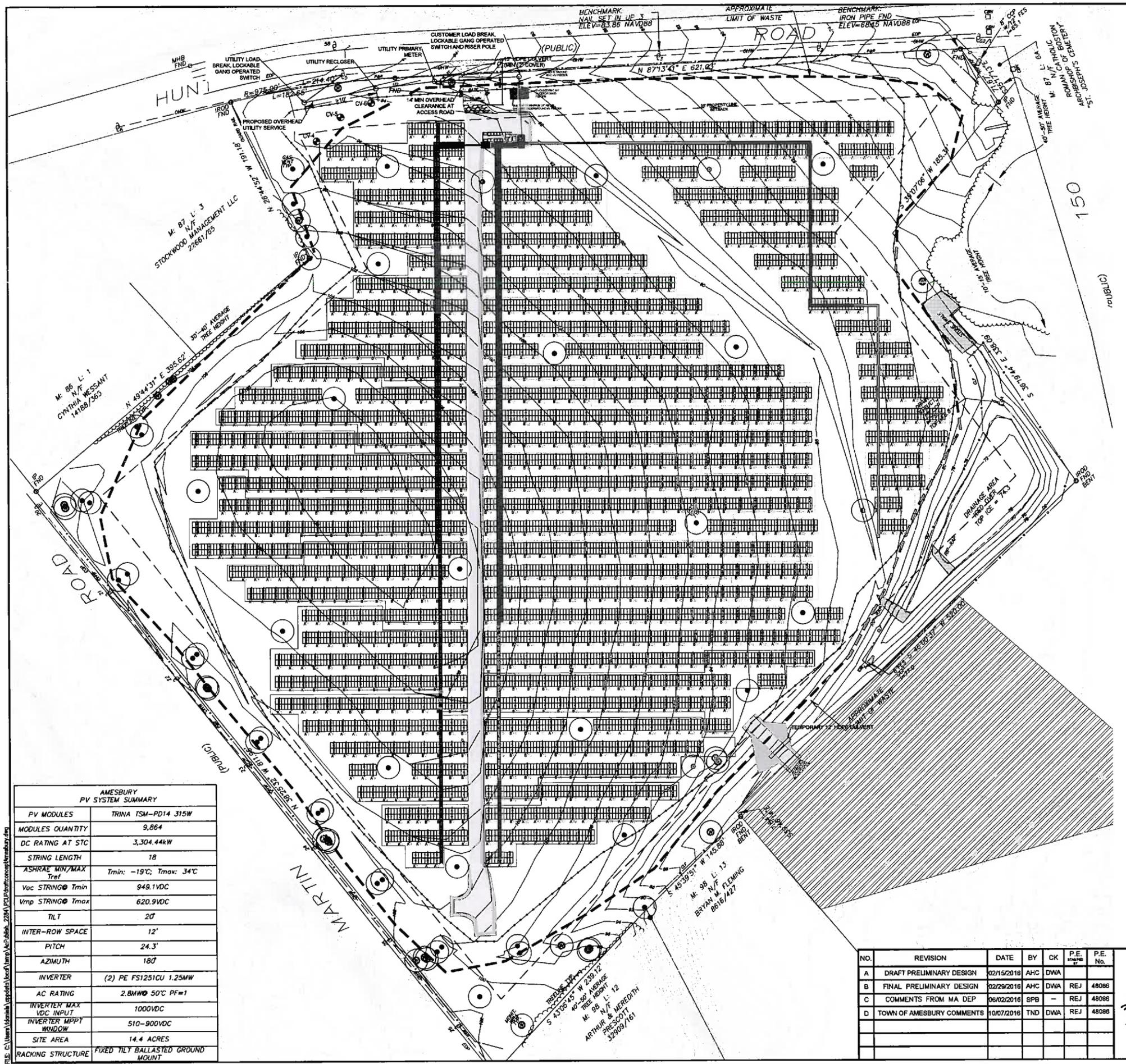
AMESBURY MASS

TRC 650 Suffolk Street, Suite 200 Lowell, MA 01854
SCALE: 1"=50' DATE: MAY 2016

C-1

REV. **D**

FILE: C:\Users\lvanessa\AppData\Local\Temp\lchabali-2284\1501\Parallels\Amesbury.dwg



PROJECT ADDRESS:
SOUTH HUNT ROAD
AMESBURY, MA

APPLICANT:
CITY OF AMESBURY
62 FRIEND STREET
AMESBURY, MA 01913

PREPARED BY:
TRC
WANNALANCIT MILLS
650 SUFFOLK STREET, SUITE 200
LOWELL, MA 01854



SITE LOCATION

GENERAL NOTES:

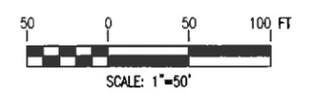
- SUBJECT PARCEL IS LOCATED IN ZONE OP - OFFICE PARK ZONE
- THE MINIMUM FRONT AND SIDE YARD SETBACKS SHALL BE FIFTY (50) FEET FROM THE PROPERTY LINE
- THE FOLLOWING DATUMS ARE REPRESENTED HEREON:
HORIZONTAL: MASSACHUSETTS STATE PLANE COORDINATE SYSTEM, NAD 83, MAINLAND ZONE, US FEET.
VERTICAL: NORTH AMERICAN VERTICAL DATUM 88.
- TOPOGRAPHICAL SURVEY PERFORMED BY LAND PLANNING, INC. HANSON, MA. EXISTING CONDITIONS PLAN PROVIDED ON DECEMBER 8, 2015.
- SITE TOPOGRAPHY IS SUPPLEMENTED BY LIDAR DATA OBTAINED FROM USGS.
- THE PHOTOVOLTAIC LAYOUT WAS PRODUCED BY NEO VIRTUS ENGINEERING, INC. DATED FEBRUARY 10, 2016
- THE BALLAST BLOCK DESIGN WAS PRODUCED BY RBI SOLAR, INC. DATED JANUARY 21, 2015.
- UNDERGROUND UTILITIES ARE SHOWN BASED ON VISIBLE SURFACE EVIDENCE ONLY AND ARE NOT CERTIFIED.
- CONSTRUCTION STAGING AREA WILL BE LOCATED IN THE PROPERTY ADJACENT TO THE SITE FROM THE EAST. THIS PROPERTY IS ALSO OWNED BY THE TOWN OF AMESBURY AND IS CURRENTLY USED AS A PAVED VACANT LOT OFF OF ROUTE 150.

LEGEND (PROPOSED)

- SOLAR PANEL ARRAY
- INVERTER PAD
- PERIMETER FENCE GATE
- PERIMETER FENCE
- TEMPORARY CONSTRUCTION ENTRANCE
- STRINGS
- COMBINER BOX
- DC TRENCH
- AC UNDERGROUND WIRE
- AC OVERHEAD WIRE
- VENT AND WELL OFFSET
- ZONING OFFSET
- PERMANENT GRAVEL ROAD
- 3:1 SIDE SLOPE OFF ACCESS ROAD
- NEW UTILITY POLES
- STAGING AREA
- PAVED APRON
- BALLAST BLOCKS
- CABLE TRAYS
- PROPOSED CONTOURS

LEGEND (EXISTING)

- OVERHEAD WIRES
- EXISTING CONTOUR LINE
- GAS VENT
- TREE/BRUSH LINE
- UTILITY POLE
- MONITORING WELL
- STONE SWALE
- APPROXIMATE EXTENT OF LANDFILL CAP
- DRAINAGE BASIN FENCELINE
- PARCEL BOUNDARIES
- PERIMETER FENCELINE



**FOR PERMITTING
NOT FOR CONSTRUCTION**

| AMESBURY PV SYSTEM SUMMARY | |
|----------------------------|-----------------------------------|
| PV MODULES | TRINA TSM-PD14 315W |
| MODULES QUANTITY | 9,864 |
| DC RATING AT STC | 3,304.44kW |
| STRING LENGTH | 18 |
| ASHRAE MIN/MAX Tref | Tmin: -19°C; Tmax: 34°C |
| Voc STRING @ Tmin | 949.1VDC |
| Vmp STRING @ Tmax | 620.9VDC |
| TILT | 20° |
| INTER-ROW SPACE | 12' |
| PITCH | 24.3° |
| AZIMUTH | 180° |
| INVERTER | (2) PE FS1251CU 1.25MW |
| AC RATING | 2.8MW @ 50°C PF=1 |
| INVERTER MAX VDC INPUT | 1000VDC |
| INVERTER MPPT WINDOW | 510-900VDC |
| SITE AREA | 14.4 ACRES |
| RACKING STRUCTURE | FIXED TILT BALLASTED GROUND MOUNT |

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| CLIENT APPROVAL | AHC DESIGNED |
|------------------|---------------|
| | AHC DRAWN |
| | DWA CHECKED |
| | REJ APPROVED |
| DATE: 02/19/2016 | REVIEWED: TRC |
| | TRC |

TITCOMB LANDFILL

SITE PLAN

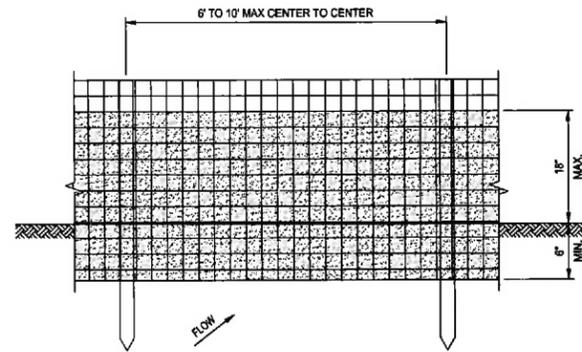
AMESBURY MASS

Wannalancit Mills
650 Suffolk Street, Suite 200
Lowell, MA 01854

SCALE: 1"=50' DATE: MAY 2016

C-2

REV. D

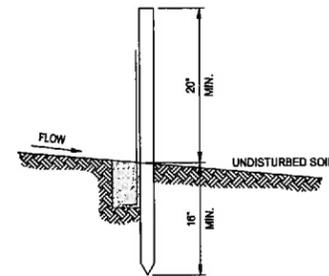


ELEVATION

- WOVEN WIRE FENCE TO BE FASTENED TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MIDSECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BUILD-UP REACHES 1/2 THE HEIGHT OF THE FENCE.

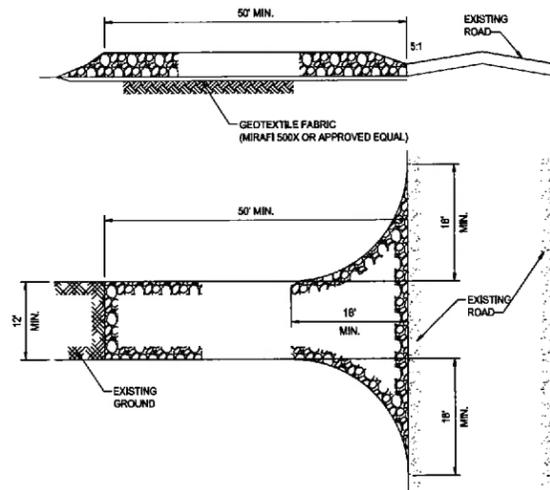
SILT FENCE DETAILS

NOT TO SCALE



SECTION

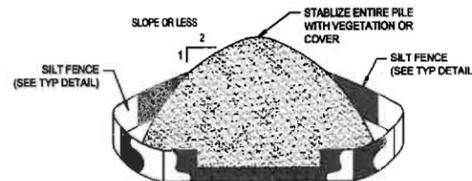
- POSTS: STEEL "T" OR "U" TYPE OR 2" HARDWOOD.
- FENCE: WOVEN WIRE: 14 1/2 GA 6" MAX MESH OPENING.
- FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL.
- PREFABRICATED UNIT: ENVIROFENCE OR APPROVED EQUAL.



- STONE SIZE - USE 2" STONE.
- LENGTH - NOT LESS THAN 50 FEET.
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWELVE (12) FOOT MIN. BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- GEOTEXTILE FABRIC - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 3:1 SLOPES WILL BE PERMITTED.
- 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.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



- INSTALLATION NOTES:**
- AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
 - MAXIMUM SLOPE OF STOCKPILE SHALL BE 2H:1V.
 - UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAW BALES, THEN STABILIZED WITH VEGETATION OR COVERED.

TYPICAL TOPSOIL STOCKPILE

NOT TO SCALE

SOIL EROSION & SEDIMENT CONTROL NOTES:

- ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
- SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THE PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN MASSACHUSETTS.
- ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.
- ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN FOURTEEN (14) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION IN ACCORDANCE WITH THE MASSACHUSETTS STANDARDS AND APPLICATION RATES SHALL BE INCLUDED IN THE NARRATIVE. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE MASSACHUSETTS STANDARDS (I.E. PEG AND TWINE, MULCH MATTING, OR LIQUID MULCH BINDER).
- ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH AT A RATE OF 2 TONS PER ACRE, ACCORDING TO THE MASSACHUSETTS STANDARDS IMMEDIATELY FOLLOWING A ROUGH GRADING.
- THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- ALL SOIL EROSION AND SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
- SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOODPLAIN, SLOPE, ROADWAY, OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHOULD BE PROTECTED BY A SILT FENCE. PROPOSED LOCATIONS SHOULD BE DELINEATED ON THE PLAN.
- A CRUSHED STONE TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ENTRANCE EXISTS. THE RIP-RAP PAD MUST BE FIFTY (50) IN LENGTH AND THE STONE MUST BE 1.5" TO 4" IN SIZE PLACED 12" THICK AND THE FULL WIDTH OF THE ENTRANCE. IT SHOULD BE UNDERLAIN WITH A SUITABLE SYNTHETIC FILTER FABRIC AND MAINTAINED.
- PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- OFFSITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE EROSION CONTROL INSPECTOR.
- A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.
- ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ALL SUBSEQUENT OWNERS.
- THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED BY THE DISTRICT INSPECTOR.

FOR PERMITTING
NOT FOR CONSTRUCTION

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| B | FINAL PRELIMINARY DESIGN | 02/29/2016 | AHC | DWA | REJ | 48086 |
| C | COMMENTS FROM MA DEP | 06/02/2016 | SPB | - | REJ | 48088 |
| D | TOWN OF AMESBURY COMMENTS | 10/07/2016 | TND | DWA | REJ | 48086 |



| | |
|-------------------|--------------|
| CLIENT APPROVAL | AHC DESIGNED |
| | AHC DRAWN |
| JL APPROVED BY | DWA CHECKED |
| SUNEDISON COMPANY | REJ APPROVED |
| 02/18/2016 DATE | TRC REVIEWED |
| | TRC |
| | TRC |

TITCOMB LANDFILL

SunEdison

SOIL EROSION & SEDIMENT CONTROL DETAILS

AMESBURY MASS

TRC Wrentham, MA 02594
850 Suffolk Street, Suite 200
Lowell, MA 01854

SCALE: NOT TO SCALE DATE: MAY 2016

C-4

REV. D



PROJECT SITE CONSTRUCTION SEQUENCE & LEGEND

- LIMITS OF DISTURBANCE AREA SHALL BE FIELD MARKED PRIOR TO INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES, CONSTRUCTION, OR ANY OTHER LAND DISTURBING ACTIVITY.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE. INSTALL ALL PERIMETER SEDIMENT CONTROLS INCLUDING SILT FENCE. INSTALL PERMANENT PROTECTIVE RING ON ALL MONITORING WELLS AND VAPOR SAMPLING POINTS WITHIN THE LIMIT OF WORK.
- CONTRACTOR SHALL NOTIFY ENVIRONMENTAL INSPECTOR AND OBTAIN APPROVAL, IF REQUIRED, BEFORE PROCEEDING FURTHER.
- INSPECT AND MAINTAIN EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION UNTIL FINAL SITE STABILIZATION.
- GRADE AREAS AS SHOWN ON PLAN IN ANTICIPATION OF GRAVEL ROAD CONSTRUCTION
- CONSTRUCT PERMANENT GRAVEL ROAD AND THE TEMPORARY ACCESS ROAD WITH APPROPRIATE SIDE SLOPES.
- CONSTRUCT SOLAR ARRAYS AND ELECTRICAL INFRASTRUCTURE.
- STABILIZE AREAS DISTURBED BY CONSTRUCTION (ONGOING, AS CONSTRUCTION PERMITS).
- COLLECT ALL SILT AND SEDIMENT AND DISPOSE OF IN AN APPROVED AREA ON-SITE.
- REMOVE EROSION AND SEDIMENT CONTROL MEASURES. REGRADE AND REVEGETATE THE AREAS DISTURBED DURING REMOVAL.

NOTE: THE COVER THICKNESS SHALL BE VERIFIED USING HAND EXCAVATED TEST PITS IN ADVANCE OF EXCAVATING IN TRENCHES. TEST PITS SHALL BE CONDUCTED AT A SPACING OF AT LEAST 1 EVERY 20 FEET IN TRENCHES. THE TEST PITS SHALL BE DUG 16 INCHES BELOW GRADE. EXCAVATION TO 14 INCHES SHALL BE APPROVED ONLY IF THE TEST PIT CAN BE EXCAVATED FULL 16-INCH DEPTH. IF CLAY BARRIER OR GEOMEMBRANE IS ENCOUNTERED, THE DESIGN ENGINEER SHALL BE NOTIFIED IMMEDIATELY. NO EXCAVATION SHALL EXCEED 14 INCHES BELOW GRADE.

NOTE: EXCAVATIONS SHALL BE CLOSELY MONITORED AND DOCUMENTED BY ON-SITE OVERSIGHT PERSONNEL. IF THE CLAY BARRIER OR GEOMEMBRANE IS ENCOUNTERED, THE EXCAVATION WORK SHALL STOP AND THE DESIGN ENGINEER SHALL BE NOTIFIED.

LEGEND (PROPOSED)

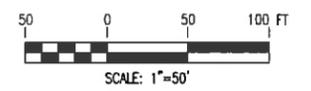
- PERIMETER FENCE GATE
- PERIMETER FENCE
- CONSTRUCTION ENTRANCE
- PERMANENT GRAVEL ROAD
- 3:1 SIDE SLOPE OFF ACCESS ROAD
- CULVERT
- PROPOSED CONTOURS
- PAVED APRON

LEGEND (EXISTING)

- OVERHEAD WIRES
- EXISTING CONTOUR LINE
- GAS VENT
- TREEBRUSH LINE
- T.L.B.L. TREEBRUSH LINE HEIGHT
- UTILITY POLE
- MONITORING WELL
- STONE SWALE
- APPROXIMATE EXTENT OF LANDFILL CAP

SOILS DATA

| ABBREV. | NAME, DESCRIPTION | SLOPES | HSG |
|---------|-------------------|--------|-----|
| 253A | FREETOWN MUCK | 0-3% | A |
| 253B | FREETOWN MUCK | 3-8% | A |
| 600 | PITS, GRAVEL | | |



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| APPROVED BY | DWA |
| SUNEDISON COMPANY | CHECKED |
| 02/19/2016 | REJ |
| DATE | APPROVED |
| TRC | TRC |

TITCOMB LANDFILL

SunEdison
GRADING PLAN

AMESBURY MASS

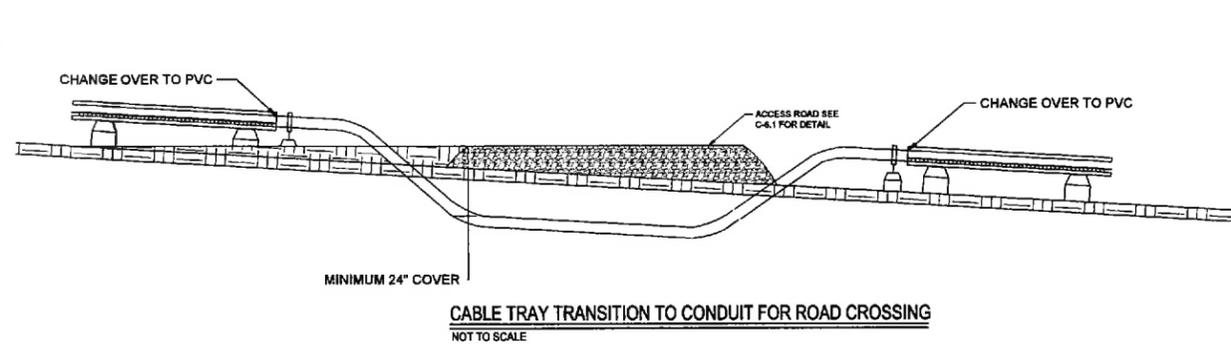
TRC Woburn, MA 01894

SCALE: 1"=50'

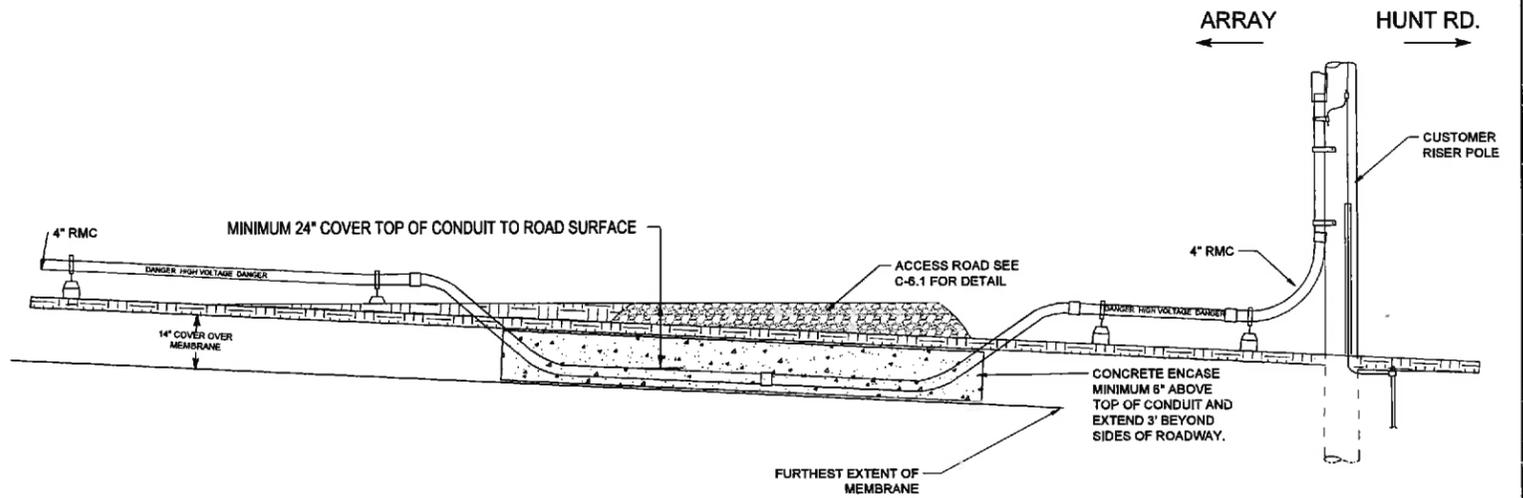
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REV. **D**

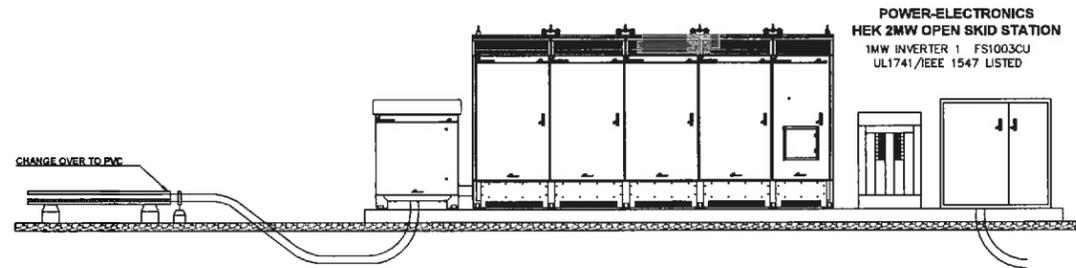
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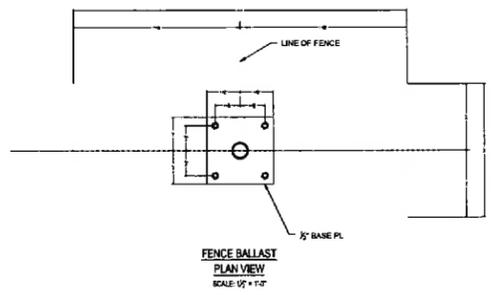
CABLE TRAY TRANSITION TO CONDUIT FOR ROAD CROSSING
NOT TO SCALE



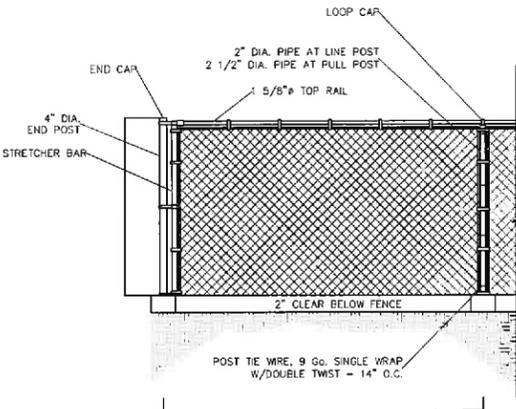
MV RMC CONDUIT DETAIL
NOT TO SCALE



INVERTER MOUNT: PAD POURED IN PLACE
NOT TO SCALE

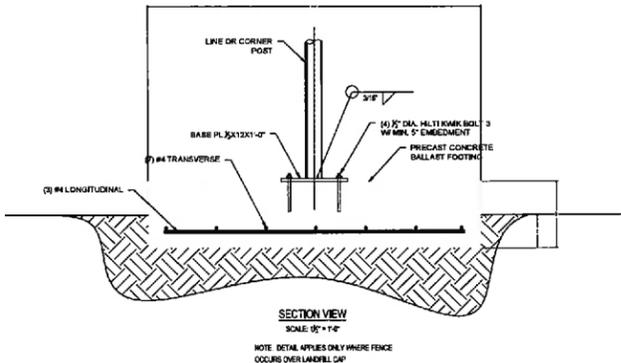


FENCE BALLAST PLAN VIEW
SCALE: 1/2" = 1'-0"

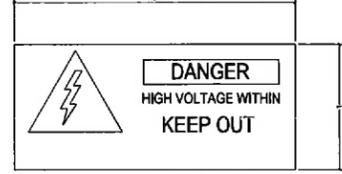


- NOTES:
1. FENCE FABRIC INSTALLED OUTSIDE FENCE AS NEEDED FOR VISUAL SCREENING.
2. FENCE SHALL BE INSTALLED WITH X BRACING AT THE CORNERS.

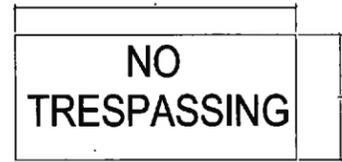
CHAIN LINK FENCE DETAIL
NOT TO SCALE



SECTION VIEW
SCALE: 1/2" = 1'-0"
NOTE: DETAIL APPLIES ONLY WHERE FENCE OCCURS OVER LANDFILL CAP



'TYPE A'



'TYPE B'

PV FENCE SIGN DETAIL
NOT TO SCALE

FOR PERMITTING
NOT FOR CONSTRUCTION

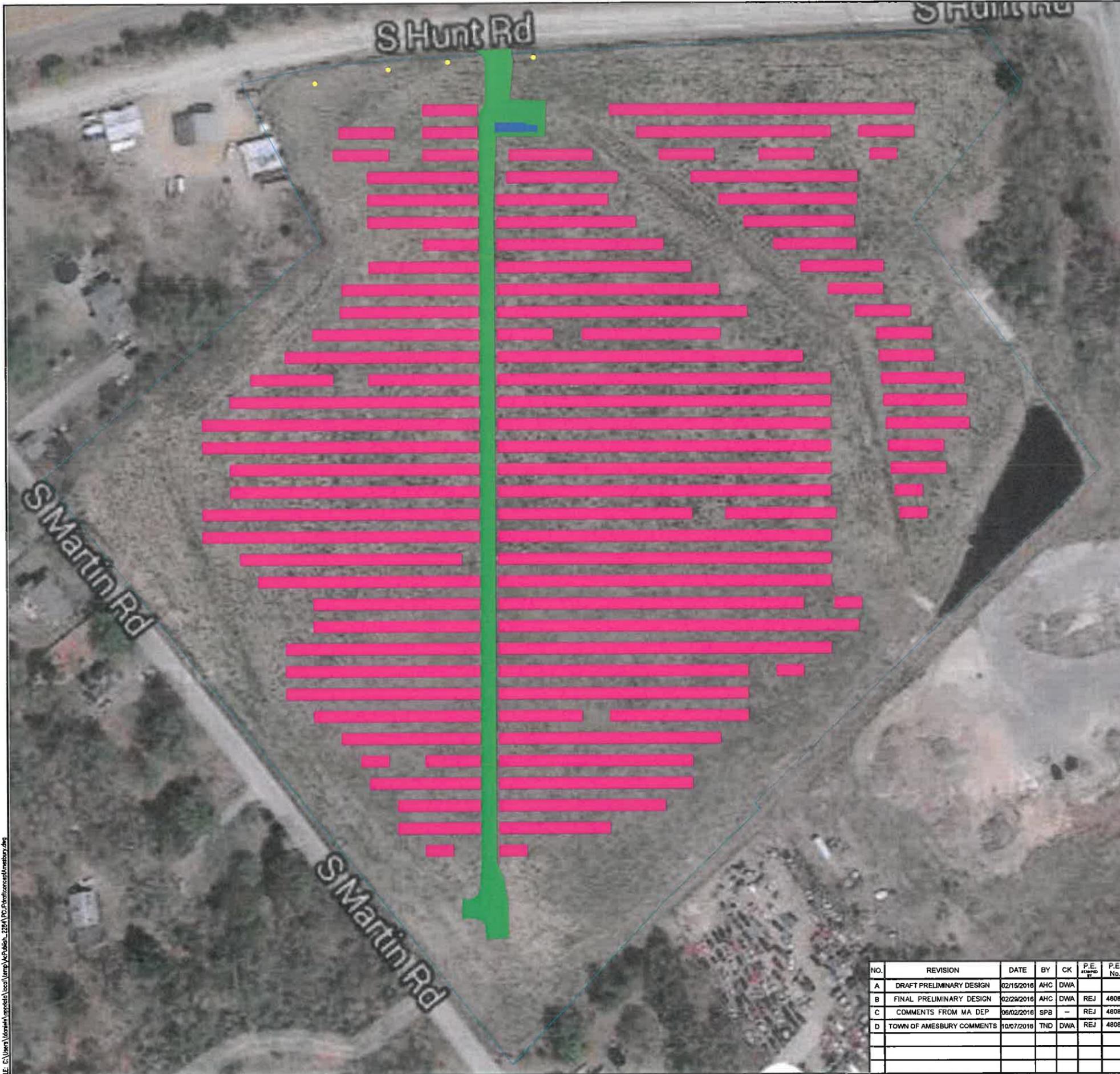
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|-----|---------------------------|------------|-----|-----|-----------------|----------|
| A | DRAFT PRELIMINARY DESIGN | 02/15/2016 | AHC | DWA | | |
| B | FINAL PRELIMINARY DESIGN | 02/28/2016 | AHC | DWA | REJ | 48086 |
| C | COMMENTS FROM MA DEP | 06/02/2016 | SPB | - | REJ | 48086 |
| D | TOWN OF AMESBURY COMMENTS | 10/07/2016 | TND | DWA | REJ | 48086 |



| CLIENT APPROVAL | AHC DESIGNED |
|--|--|
| JL APPROVED BY SUNEDISON COMPANY 02/19/2016 DATE | AHC CHECKED DWA CHECKED REJ APPROVED |
| REVIEWED | TRC |
| TRC | TRC |

TITCOMB LANDFILL
SunEdison
CONSTRUCTION DETAILS
AMESBURY MASS
SCALE: NOT TO SCALE DATE: MAY 2016
REV. D

FILE: C:\Users\luciano\appdata\local\temp\Asphubsh... 228A\PCD\Permit\constr\Amesbury.dwg



PROJECT ADDRESS:
SOUTH HUNT ROAD
AMESBURY, MA

APPLICANT:
SunEdison, LLC
179 LINCOLN STREET, SUITE 500
BOSTON, MA 02111

PREPARED BY:
TRC
WANNALANCIT MILLS
650 SUFFOLK STREET, SUITE 200
LOWELL, MA 01854



SITE LOCATION

| OPEN SPACE CALCULATIONS | | | |
|-------------------------|-------|----------------|--------------|
| OBSTRUCTION | COLOR | AREA (SQ FT) | AREA (ACRES) |
| PANELS | | 201,484 | 4.63 |
| INVERTERS | | 421 | 0.01 |
| POLES | | 82 | -0.00 |
| GRAVEL ROAD | | 18,924 | 0.43 |
| TOTAL | - | 220,911 | 5.07 |

THERE IS 11.95 ACRES AND 70% OPEN SPACE

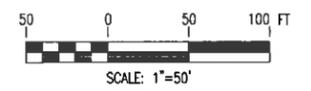
GENERAL NOTES:

THE LANDFILL PARCEL, KNOWN BY THE AMESBURY ASSESSOR AS MAP 87, LOT 2 IS A TOTAL OF 17.02 ACRES.

ACCORDING TO THE CITY OF AMESBURY, MASSACHUSETTS: OPEN SPACE IS DEFINED AS THE SPACE ON A LOT UNOCCUPIED BY BUILDINGS, UNOBSTRUCTED BY THE SKY, NOT DEVOTED TO STREETS, DRIVEWAYS, OR OFF-STREET PARKING OR LOADING SPACES AND EXPRESSED AS PERCENTAGE OF TOTAL LOT.

LEGEND

- PARCEL BOUNDARY
- PANEL OUTLINE
- INVERTER OUTLINE
- GRAVEL ROAD OUTLINE
- UTILITY POLE OUTLINE

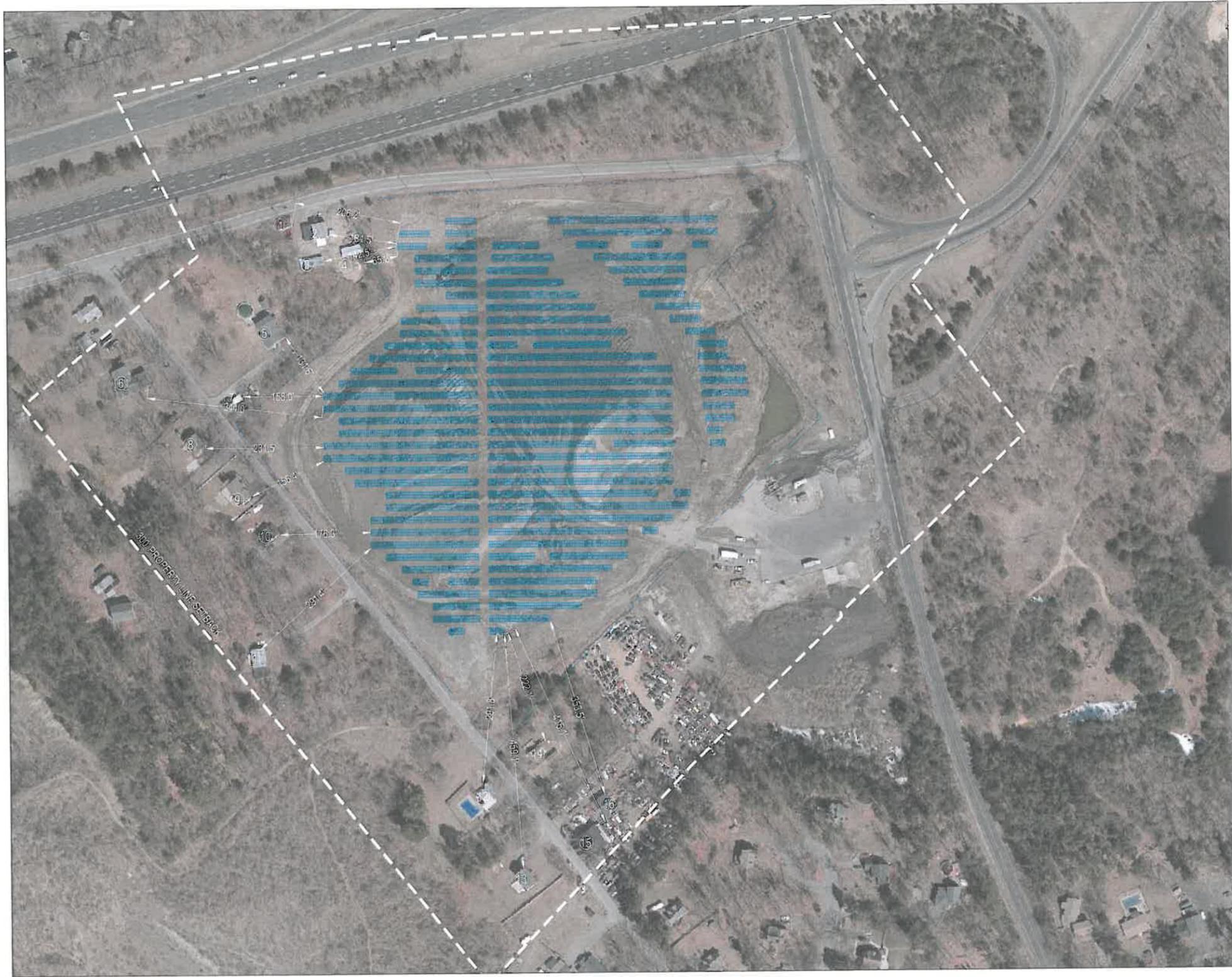


FOR PERMITTING
NOT FOR CONSTRUCTION

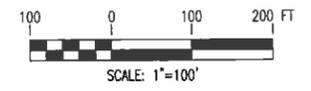
| NO. | REVISION | DATE | BY | CK | P.E. STAMPED | P.E. No. |
|-----|---------------------------|------------|-----|-----|--------------|----------|
| A | DRAFT PRELIMINARY DESIGN | 02/15/2016 | AHC | DWA | | |
| B | FINAL PRELIMINARY DESIGN | 02/29/2016 | AHC | DWA | REJ | 48086 |
| C | COMMENTS FROM MA DEP | 06/02/2016 | SPB | - | REJ | 48086 |
| D | TOWN OF AMESBURY COMMENTS | 10/07/2016 | TND | DWA | REJ | 48086 |

| | | | | | |
|--------------------|----------------------------------|-----------------------------|--|--|-----------|
| | CLIENT APPROVAL | AHC DESIGNED | | TITCOMB LANDFILL OPEN SPACE CALCULATIONS AMESBURY | MASS |
| | APPROVED BY SUNEDISON COMPANY | AHC DRAWN | | | |
| DATE 02/19/2016 | REVIEWED TRC | DWA CHECKED REJ APPROVED | | 650 Suffolk Street, Suite 200 Lowell, MA 01854 SCALE: 1" = 50' DATE: MAY 2016 | REV. D |

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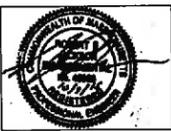


| ARRAY SETBACK INFORMATION | | |
|---------------------------|-------------------|---------------------------------------|
| STRUCTURE ID | STRUCTURE PURPOSE | DISTANCE TO NEAREST ARRAY MODULE (FT) |
| 1 | STORAGE | 206.20 |
| 2 | INDUSTRIAL | 131.50 |
| 3 | STORAGE | 142.50 |
| 4 | STORAGE | 65.20 |
| 5 | RESIDENCE | 131.60 |
| 6 | RESIDENCE | 158.00 |
| 7 | GARAGE/SHED | 344.00 |
| 8 | RESIDENCE | 231.50 |
| 9 | RESIDENCE | 156.40 |
| 10 | RESIDENCE | 176.30 |
| 11 | RESIDENCE | 291.40 |
| 12 | RESIDENCE | 291.80 |
| 13 | RESIDENCE | 459.10 |
| 14 | RESIDENCE | 222.10 |
| 15 | INDUSTRIAL | 415.10 |
| 16 | GARAGE | 353.50 |



FOR PERMITTING
NOT FOR CONSTRUCTION

| NO. | REVISION | DATE | BY | CK | P.E. Stamp | P.E. No. |
|-----|---------------------------|------------|-----|-----|------------|----------|
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| | | | | | | |
| | | | | | | |



| | |
|-------------------|--------------|
| CLIENT APPROVAL | AHC DESIGNED |
| | AHC DRAWN |
| JL APPROVED BY | DWA CHECKED |
| SUNEDISON COMPANY | REJ APPROVED |
| 02/19/2016 DATE | TRC REVIEWED |
| | TRC |

TITCOMB LANDFILL

SOLAR GENERATION FACILITY
SETBACK PLAN
 AMESBURY MASS
 850 Suffolk Street, Suite 200
 Lowell, MA 01854
 SCALE: 1"=100' DATE: MAY 2016
 REV. D