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Powered by partnership.

AC POWER 14, LLC 10 MW AC SOLAR PV ARRAY AT THE LANCASTER LANDFILL

POST CLOSURE MONITORING AND MAINTENANCE PLAN

AUGUST 2021

PROJECT NO. 2201371

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I. INTRODUCTION

The Lancaster Sanitary Landfill (Landfill), New York State Department of Environmental Conservation (NYSDEC) Site ID #915068, encompasses 155 acres off of Gunnville Road, north of the New York State (NYS) Thruway (I-90) in Lancaster, New York. The Landfill was active from 1961 to 1985, and upon closure in 1985, the waste was capped with a soil cover system. This Post-Closure Monitoring and Maintenance Plan (Plan) is for the approximately 155-acre final cover system at the Lancaster Landfill and describes the operations to be conducted by Gunnville Energy Systems, Inc. (the Owner), as Landfill owner, during the post-closure care period. The Plan has been prepared to address the post-closure care requirements for municipal solid waste landfills set forth in 6NYCRR Part 360. This plan provides a schedule to maintain the integrity of the final cover system through routine inspection, maintenance, repair, monitoring, and reporting procedures. Post-closure monitoring and maintenance of all components of the final cover system will continue for a minimum of thirty (30) years. The approximate limits of the Landfill and Final Cover System are provided in Attachment 1, Sheet C200 Site Location Plan.

The Owner has entered into an agreement with AC Power, LLC to install and operate a 34.3-acre Photovoltaic (PV) Solar Array system within the landfill final cover system and property limits. Refer to the Lease Agreement for additional information. The PV Operator (AC Power 14, LLC) of the PV system will be responsible for the operation and maintenance of the solar array system for the duration of the agreement. The PV System Engineering Drawings are provided in Attachment 1.

This Plan provides monitoring and maintenance programs for the following:

- The solar PV system (34.3 acres) within the limits of the Landfill
- The storm water management system
- Gas venting system
- The Final Cover System (155 acres)
- Groundwater Monitoring System

The Owner, or its designated tenant (AC Power 14, LLC), will execute the programs listed above. Responsibilities are detailed in Section VII. The Lease Area Plan included as Attachment 4 depicts the areas of responsibility designated to AC Power 14, LLC (within the Lease Area) and the Owner (outside the Lease Area). The procedures described below require timely and accurate reporting of inspections, maintenance, and repair actions. Post-closure maintenance activities will be documented and made available to local, state, and federal regulatory agencies upon request in addition to being submitted to the NYSDEC within the annual report.

As there is no leachate collection system associated with the closed landfill, this Plan does not provide procedures for monitoring and maintenance of such a system.

II. FINAL COVER SYSTEM

The Landfill was closed and capped in 1985 pursuant to a NYSDEC Consent Order. The NYSDEC has indicated that the cover requirements at the time of closure consisted of a soil cap comprised of 18-inches of low permeability (1 x 10^{-5} cm/sec) soil overlain by 6-inches of top soil. However, no documentation detailing the actual construction of the landfill cover system (i.e., Construction Quality Assurance or Closure Report) has been obtained from the NYSDEC. A Cover System Investigation was performed to determine the thickness and characteristics of the cover system. The findings of the investigation are discussed below.

A. Final Cover

This section provides a description of the final cover as a reference for post-closure monitoring and maintenance activities. Subsequent sections present the final cover post-closure inspection schedule and procedures; maintenance and repair procedures; and equipment requirements.

The final cover system for the landfill, as determined during the Cover System Inspection, consists of the following components (in order of construction):

- Six to 42-inch clay layer
- Six to 28-inch sand layer, across approximately 30% of the landfill
- 6-inch Topsoil layer

The Cover System Investigation determined that the clay layer consists of low permeability soil with an average permeability of 3.63 x 10^{-7} cm/sec. Areas of the landfill designated for the PV array generally include a minimum 18-inch clay layer and 6-inch topsoil layer. However, the approximate thickness of the clay layer within a limited area proposed for solar array construction was determined to be 12 to 14 inches, which is less than the 18 inches required. This area will require soil cover augmentation as discussed below.

Soil cover augmentation will occur prior to the construction of the solar arrays on select portions of the Landfill as prescribed in the Engineer Report. Soil cover augmentation will occur on areas where solar modules will be placed that were identified to consist of less than the minimum 18-inch low permeability soil layer. The soil cover augmentation will generally consist of stripping and stockpiling the designated area of the topsoil layer; import, placement, and compaction of a 6-inch low permeability soil cover layer across the designated area; quality control/quality assurance testing; and placement of the topsoil layer over the area of cover system augmentation. Refer to the Engineering Report for further details.

Additionally, the final cover system includes access features required to maintain the Landfill during the post-closure period. Monitoring and maintenance of the final cover storm water management system is discussed in Section IV.

B. Inspection Schedule and Procedures

Routine inspections of the Final Cover System are conducted to identify areas requiring additional maintenance in order to minimize the effect and extent of the conditions listed below. AC Power 14, LLC will conduct inspections twice per year within the Lease Area (refer to Attachment 4). The Owner will remain responsible for inspections outside the Lease Area.

Semiannual inspections are to be performed to identify the presence of any of, but not limited to, the following conditions:

- Visible debris, litter, and waste
- Vegetative cover layer of the Landfill:
  - Sparse or distressed vegetation
  - Surficial slumping on slopes
- Vertical and sub-vertical cracking
- Ponding
- Surface drainage interruptions, surface erosion conditions (e.g., rills, gullies)
- Indications of vectors (e.g., burrows)
- Gas vents: signs of blockage or damage
- Perimeter access road: signs of rutting, drainage issues, and erosion
- Perimeter fence: damage, breaks, or abnormalities, such as loose fence tension, or malfunctioning gates and locks

The access gate will be inspected as it is opened whenever access is required. In addition, the cover system will be inspected following unusual events such as landfill fires, vehicle accidents, and major rainstorms (five-year storms).

All inspections will be documented on an approved Inspection Form. An example Inspection Form is provided as Attachment 2.

C. Maintenance and Repair Procedures

It is anticipated that the vegetative cover layer will require periodic maintenance throughout the post-closure maintenance period. Maintenance of the vegetative cover is necessary to promote long-term erosion control and to protect the final cover. The conditions that may contribute to the need for maintenance of the vegetative cover correspond to those outlined above, which include both routine maintenance and event/condition-based maintenance. Any condition-based maintenance and repairs

(i.e. Sections II.C.3 – II.C.6) require notification of the Department and will be documented and submitted to the Department after the repairs are completed.

1. Litter and Debris

   All litter and debris identified during inspections will be removed and disposed.

2. Mowing

   Annual mowing of the grasses on the plateaus and sideslopes should be performed to assist in keeping unwanted vegetation (e.g., woody species or noxious weeds) from becoming established on the Landfill cover within the Lease Area. In the event that despite annual mowing, noxious weeds or other undesirable vegetation are observed on the Landfill cover within the Lease Area, such unwanted vegetation will either be removed by hand with appropriate hand tools or will be controlled through use of an appropriate herbicide. AC Power 14, LLC will be responsible for mowing of the Lease Area.

   Mowing outside of the Lease Area will be completed in accordance with the Incidental Take Permit to be placed on the Landfill to meet the requirements to be included in the Net Conservation Benefit Plan for Upland Sandpipers. Mowing outside of the Lease Area will include all areas of the existing landfill outside the solar array other than the NYSDEC regulated wetland and 100-foot adjacent area. This includes mowing of patches of black swallow-wort (Vincetoxicum nigrum) and common reed (Phragmites australis). Mowing will occur every three years. Mowing will be performed between August 16 and October 1 per NYSDEC's Best Management Practices for Grassland Birds. Mowing should be at a height of six to ten inches (Ideally, eight inches). AC Power 14, LLC will be responsible for the mowing of the areas outside of the Lease Area every three years.

3. Repairs to the Vegetative Cover Layer

   Condition-based maintenance will be performed in response to any detrimental condition identified during inspections. Repairs to the vegetative cover layer will be performed in a manner consistent with the original vegetative cover layer construction procedures. Clean fill, brought in from off-site, will be placed in loose lifts of 6 to 8 inches and compacted to re-establish grade to appropriate elevations, as necessary. Placement and compaction of vegetative cover layer soil lifts will be performed using low ground pressure equipment or wheeled construction equipment.

   Leachate breaks are not expected, but if one is observed during the regular inspection of the final cover the Department will be notified of the need for repairs of the final cover system. The affected areas will be excavated to the waste layer

and the cap system will be replaced with clayey or bentonite amended soils and re-compacted. The repairs will be documented and submitted to the NYSDEC after the repairs are completed.

If it is suspected that rodents are threatening the integrity of the vegetative cover layer or the final cover, a licensed pest control professional will be contracted to perform the necessary removal services. Animal burrows will be repaired by filling the holes with approved soil and reseeded, as necessary.

Reseeding of the vegetative cover layer will be performed as needed. Reseeding may be necessary if surface erosion has occurred, plateau or sideslope reworking was performed, or in the event that weed pulling has caused the death or sparseness of the existing vegetation. The reseeding efforts should be consistent with the original final cover construction procedures.

Any repairs to the vegetative cover within the Lease Area will be the responsibility of AC Power 14, LLC. Any repairs outside the Lease Area will be the responsibility of the Owner (refer to Attachment 4).

4. Gas Vents

A total of 42 gas vents are installed across the Landfill. Any damage to the vents that cannot be repaired and renders them inoperative will result in replacement with a new vent of similar construction and depth. Inspection and repair of gas vents will be the responsibility of the Owner. Gas vents damaged during the construction of the solar arrays will be repaired by AC Power 14, LLC.

5. Access Road

The existing access road will allow access across the Lease Area for future maintenance and inspection during the post-closure period. AC Power 14, LLC will be responsible for maintenance and repairs to the access road from entry to the Landfill up to and including the Lease Area.

Final cover maintenance, repair and/or reconstruction activities will be conducted in a manner to maintain the integrity of the final cover system and to maintain the grades and positive surface water drainage flow established during closure construction. Repair materials will meet material specifications and be placed in a manner consistent with the original final cover construction procedures. Repair procedures should be monitored and documented.

6. Landfill Perimeter Fence and Gate

A chain-link fence will be installed on the boundary of the PV array Lease Area. Fence repairs will be performed as necessary to maintain site security. AC Power

14, LLC will be responsible for maintenance and repairs to the fence and gate around the perimeter of the Lease Area. The Owner will be responsible for maintenance and repairs to the fence and gates at the perimeter of the Landfill.

III. PHOTOVOLTAIC SYSTEM

A fixed-tilt Solar Photovoltaic (PV) System utilizing Remote Net Metering (RNM) (PV System) will be constructed on approximately 34.3 acres (Lease Area) of the closed Landfill. The PV System will be installed and maintained by the PV Operator (AC Power 14, LLC). AC Power 14, LLC will inspect the electrical components once per year, and the physical system (i.e., where the ballasted system meets the ground) including all mounting hardware on and off the cap twice per year.

The PV System will consist of approximately 24,206 525-watt solar modules affixed to panels supported by a non-penetrating surface-mounted ballast racking system – see Attachment 1, PV Solar Array Engineering Drawings. Electrical service to the PV System will be provided via interconnection to the existing electrical infrastructure. The PV System will be enclosed by a perimeter fence for safety.

A. Inspection Schedule and Procedures

Inspections of the PV System will be conducted by the PV Operator.

1. Photovoltaic Array System

   The PV system will be situated within the approximately 34.3-acre Site surrounded by the perimeter fence. Periodic inspections of the array system will include the following:

   - Perimeter fence inspection for continuity
   - Signs and placards, visible and properly installed
   - Visible debris, litter, and waste
   - Vegetation growth within the Lease Area
   - Confirm electrical enclosures are only accessible to authorized personnel, are properly secured, and have proper signage
   - Check for corrosion on the enclosures and racking system
   - Check for hanging or loose wires in the array
   - Check inverter/electrical concrete pads to make sure no excessive cracking or signs of wear are present.

B. Maintenance and Repair Procedures

1. Vegetative Cover System, Access Road, Gas Vents, Perimeter Fence

   Maintenance and repair of the cover system, access road, gas vents, and perimeter fence within the boundary of the Lease Area will be conducted in accordance with the procedures in Section II.C of this Plan.

2. Stormwater Management Features

   There are no permanent stormwater features located within the footprint of the Lease Area; however, erosion of the final cover system within the Lease Area will be repaired in accordance with Section II.C of this Plan.

3. Ballast, Rack System, and PV Panels

   The AC Power 14, LLC's ground ballasts, post mounts, rack systems, and PV panel maintenance process is designed to identify and prevent failures that can occur over the long-term operation of the PV System. Maintenance of the components focuses on the following standard steps:

   - Inspection for preventative maintenance
   - Array Checks
   - Mechanical Checks
   - Electrical Checks
   - Cleanliness

4. PV Electrical System

   AC Power 14, LLC will be responsible for maintenance and repair, if necessary, of the PV electrical system. The PV electrical system consists of the transformer, inverter, electrical interconnection up to the point of coupling with New York State Electric and Gas (NYSEG) distribution feeder, and meters. Inspections will include the following:

   - Visual Checks
   - Mechanical Checks
   - Electrical Checks
   - Operational Checks
   - Cleanliness

   Any disturbance of the final cover system during PV System maintenance activities will be repaired in accordance with Section II.C of this Plan.

IV. STORMWATER MANAGEMENT SYSTEM

A. Inspection Schedule and Procedures

Stormwater management for the Landfill consists of passive components; there are no active operations. The Landfill is drained predominately through surface drainage. Some ponding exists within the covered landfill areas. Drainage generally flows to the boundaries of the site. Post construction drainage will include sheet flow along the covered landfill and pervious access road in a similar fashion to existing conditions. Small areas of grading will occur including the placement of imported materials to restore sheet flow within the project area. AC Power 14, LLC will be responsible for stormwater inspections required per the Stormwater Pollution Prevention Plan (SWPPP) developed for the solar facility. Said inspections will be performed within the Lease Area throughout the solar facility construction period until soil restoration is achieved as outlined in the SWPPP.

The stormwater drainage will be maintained throughout the post-closure period. Inspections will be performed on a semiannual basis or after major storm events (five-year storms) to verify the free flow of surface water runoff. The Owner will continue to be responsible for the inspection of stormwater drainage on all areas of the landfill outside of the Lease Area throughout the post-closure period. Inspections of stormwater drainage within the Lease Area during the post-closure period will be the responsibility of AC Power 14, LLC.

Inspections will be performed by qualified personnel and reviewed by a competent professional. An Inspection Form, containing a checklist of items that documents the evaluation of site conditions, will be used during each inspection. The findings and observations of each inspection will be entered on the form and presented in the annual report. Minor repairs or maintenance may be performed in conjunction with the inspection and will be noted on the inspection form. The Inspection Form is presented as Attachment 2.

B. Maintenance and Repair Procedures

If the inspections indicate that the final cover stormwater management features are not adequately controlling surface water run-on and runoff, maintenance actions will be taken. As necessary, routine maintenance of the stormwater management features will include filling eroded areas, reseeding, or repairing other disturbances.

In the event any of the features are found to be damaged or incapable of conveying the design flows, repairs will be made as soon as practical. Any obstruction found in channels/swales will be immediately removed and they will be re-graded as necessary.

V. GROUNDWATER MONITORING SYSTEM

A. Sampling Procedures, Frequency and Parameters

The groundwater monitoring requirements are as follows:

- Monitoring will occur semi-annually and the data is included in an annual report.
- Monitoring is performed on 11 groundwater monitoring wells including five north of NYS I-90 (W-2, W-3, W-5, , W-6 and W-8) and six south of NYS I-90 (W-A, W-B, , W-D, W-E, W-G, and W-H) (refer to Attachment 3 for sample locations)
- A NYS Thruway Work Permit is required to access and sample the groundwater monitoring wells south of NYS I-90.
- Static water level is measured in each well.
- Purging is conducted until three well volumes have been removed or until dry well conditions are encountered.
- Dedicated bailers, or dedicated tubing and a peristaltic pump are used for purging and sampling.
- The following field parameters are collected from each monitoring well location:
  - Conductivity
  - Oxidation reduction potential (ORP)
  - pH
  - Temperature
  - Turbidity
- Groundwater samples are and one blind duplicate sample are collected and analyzed by a New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP) certified laboratory for the following:
  - Part 360 Baseline VOCs (method 8260)
  - Total metals - iron, manganese, & lead (method 6010)
  - Alkalinity, total as CaCO3 (method SM 2320 B)
  - Ammonia as Nitrogen (method 350.1)
  - Total Organic Carbon (method 9060A)
  - Chloride (method 300.0)
  - Nitrate as nitrogen (method 300.0)
  - 1,4-dioxane (Method 8270DSIM)
  - PFAS sampling (Method E537 Modified)
    - 2-(N-methyl perfluorooctanesulfonamido) acetic acid
    - 6:2 Fluorotelomer sulfonate
    - 8:2 Fluorotelomer sulfonate
    - N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine
    - Perfluorobutanesulfonic acid (PFBS)
    - Perfluorobutanoic Acid
    - Perfluorodecane Sulfonic Acid
    - Perfluorodecanoic acid (PFDA)
    - Perfluorododecanoic acid (PFDoA)
    - Perfluoroheptane Sulfonate (PFHPS)
    - Perfluoroheptanoic acid (PFHpA)
    - Perfluorohexanesulfonic acid (PFHxS)
    - Perfluorohexanoic acid (PFHxA)
    - Perfluorononanoic acid (PFNA)
    - Perfluorooctane Sulfonamide (FOSA)
    - Perfluorooctanesulfonic acid (PFOS)
    - Perfluorooctanoic acid (PFOA)

- Perfluoropentanoic Acid (PFPeA)
- Perfluorotetradecanoic acid (PFTA)
- Perfluorotridecanoic Acid (PFTriA)
- Perfluoroundecanoic Acid (PFUnA)

NYSDEC will be notified at least 48 hours prior to each sampling event. The monitoring will continue as indicated above unless modifications are approved by the NYSDEC. After two additional rounds of sampling are conducted, NYSDEC will review the results with the Owner to consider future reductions in testing (parameters, frequency and/or number of wells) based on the data collected to date. Sampling results will be included in the annual report provided to NYSDEC along with a summary of site history, inspection reports, and documentation of any maintenance/ repairs (see below). Records of all subsequent measurements, including all concentration measurements will be kept throughout the post-closure care period. The Owner will remain responsible for groundwater monitoring.

B. Maintenance and Repair Procedures

If the inspections indicate that the groundwater monitoring features are not able to be sampled or if damage has occurred to the wells, repairs will be performed or new monitoring wells will be installed. As part of these repairs NYSDEC will be notified and information regarding the repairs including any well decommissioning and/or construction logs will be included in the annual report to the NYSDEC.

VI. CONTINGENCY PLAN

This Contingency Plan has been presented to satisfy the requirements of NYCRR Part 360-2.15(k)(7)(v). As required by NYCRR 360-2.15(k)(7)(v)(a), the contingency plan should include responses to "problems that have a reasonable likelihood of occurrence". At the Lancaster Landfill, these likely occurrences include erosion and/or vector damage to the cap system, construction related damage to the final cover system, erosion and/or blockages of the stormwater management system, and action levels experienced in the groundwater monitoring system.

A. General Cover System

As discussed in Sections II.B and II.C above, inspections of the final cover will be performed on a routine basis. If any erosion and/or vector damage to the cap system is noted during these inspections, the personnel identified in Section VII below must be notified of the condition. Once a corrective measure for the identified issue has been established, the NYSDEC shall also be notified of the condition requiring action and the associated corrective action.

B. Photovoltaic System Construction

AC Power 14, LLC will conduct periodic inspections during the construction of the Photovoltaic System. Inspection duties will focus on ensuring all construction activities are conducted in accordance with the Engineering Report and Design Drawings which have been prepared to ensure the integrity of the cover system is maintained. The inspector will immediately notify the personnel listed in Section VII below if either the construction activities deviate from the approved design or if the activities in compliance with design cause unforeseen deficiencies in the cover system.

C. Stormwater Management System

As discussed in Section IV above, inspections of the Stormwater Management System will be performed on a routine basis. If any damage to the system is noted during these inspections then the personnel identified in Section VII below must be notified of the condition. Once a corrective measure for the identified issue has been established, the NYSDEC shall also be notified of the condition requiring action and the associated corrective action. The NYSDEC shall be notified, with sufficient advanced notice to be present to observe any repairs, prior to commencing corrective actions.

D. Groundwater Monitoring System

The Owner performs annual monitoring of the groundwater at the Landfill. If any damage to the system is noted during these inspections then the personnel identified in Section VII below must be notified of the condition. Once a corrective measure for the identified issue has been established the NYSDEC shall also be notified of the condition requiring action and the associated corrective action. Reports will continue to be developed and submitted to NYSDEC on an annual basis.

VII. ROLES AND RESPONSIBLITIES

This Post-Closure Monitoring and Maintenance Plan will be implemented by the Owner. The responsible parties for the post-closure maintenance period are as follows:

Lancaster Landfill Contact Information		
Name	Organization	Phone No.
Gunnville Energy Systems, Inc.	Landfill Owner	(716) 633-6500
AC Power 14, LLC Matt Whitaker VP Asset Management Matt.whitaker@catalyze.net	PV Solar System Site Operator	(713) 823-7222 Matt.whitaker@catalyze.net

Lancaster Landfill Responsibilities		
Task	**Owner**	**AC Power 14, LLC**
Cover System Inspection	Outside Lease Area	Within Lease Area
Mowing	None	Within Lease Area annually and outside Lease Area every three years
Vegetative Cover Repairs	Outside Lease Area	Within Lease Area
Gas Vent Inspection/ Repairs	Responsible for all gas vents	If damaged by AC Power 14, LLC during construction or maintenance
Access Road Maintenance/ Repairs	Any portion other than from the Landfill entry to the Lease Area	From the Landfill entry to the Lease Area
Fence Maintenance/ Repairs	Landfill perimeter fence and gates	Lease Area fence and gate
PV System Inspections/ Maintenance/ Repairs	None	Annual inspection of electrical components and semi-annual inspections of ballasted system including mounting hardware on and off cap.
SWPPP Inspections for Solar Facility (Construction through Soil Restoration)	None	Responsible for inspections of areas within the Lease Area
Landfill Stormwater Management System Inspections	Responsible for inspections of landfill area outside the Lease Area	Responsible for inspections of the Lease Area
Groundwater monitoring	Responsible for monitoring and reporting.	None

VIII. Post-Closure Land Use

The primary land use expected for the site after the closure of the landfill is open dormant land and PV system.

IX. Training

Personnel responsible for performing site inspections and maintaining the site will be competent individuals trained in the skills necessary to perform their job. Personnel will continue to receive training as new programs become available. Groundwater monitoring will be performed by a qualified firm and laboratory analyses will be performed by a certified water testing laboratory. If major problems arise, competent engineering and construction firms will be engaged to assess the situation and recommend ways to alleviate the problems.

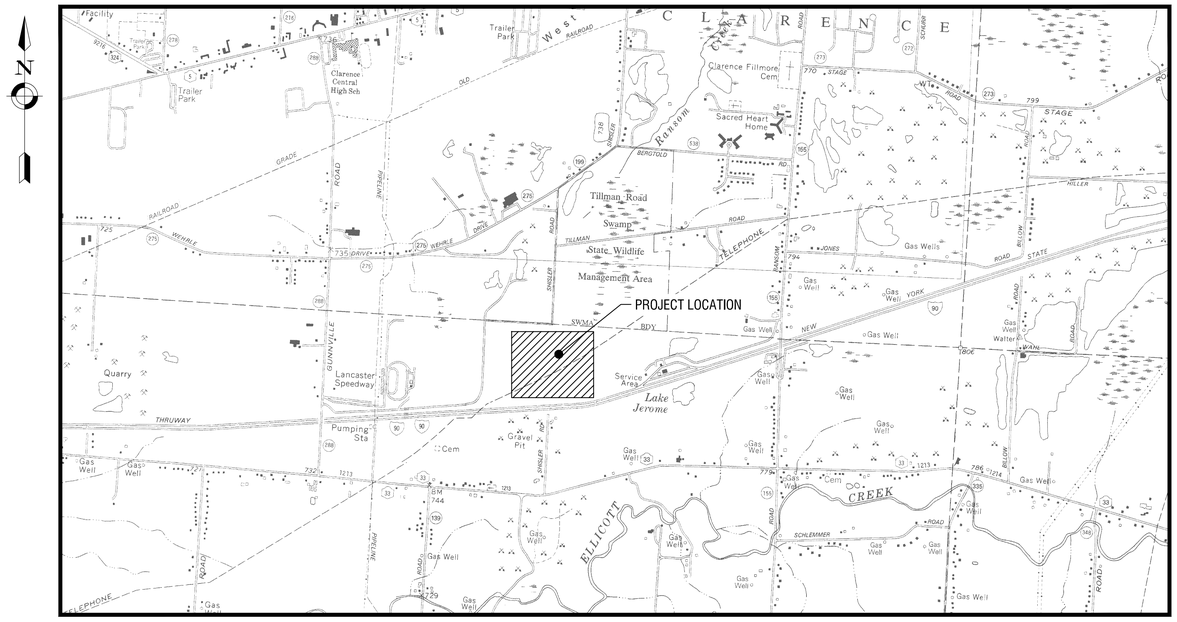
X. Records

Records of all PCMM monitoring events, inspections, repairs and maintenance activities shall be maintained and kept on file by the Owner and AC Power 14, LLC.

Attachment 1

LANCASTER LANDFILL SOLAR

GUNNVILLE ROAD
LANCASTER, NY 14086



LOCATION MAP

N.T.S.

AC POWER 14, LLC

465 GRAND STREET, SUITE 5

NEW YORK, NY 10002

PROJECT NO: 2201371

JUNE 2021

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Powered by partnership.

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ISSUED FOR SITE PLAN APPLICATION
JUNE 2021

AC POWER 14, LLC
PROJECT NO: 2201371

LANCASTER LANDFILL SOLAR
GUNNVILLE ROAD, LANCASTER, NY 14086

GENERAL NOTES

1. THE CONTRACTOR ALONE SHALL BE RESPONSIBLE TO LOCATE UTILITIES OUTSIDE THE RIGHT-OF-WAY INCLUDING PRIVATE ROADS.
2. SITE DRAINAGE, INCLUDING THE PROJECT SITE AND ADJACENT PRIVATE AND PUBLIC ROADWAYS, DRIVES, PARKING AREAS OR PROPERTIES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING ALL MATERIALS, TOOLS AND EQUIPMENT, INCLUDING SPECIAL CUTTING DEVICES, NECESSARY TO PERFORM THE WORK CONTAINED IN THIS CONTRACT.
4. THE CONTRACTOR SHALL PROTECT ALL EXISTING SITE AMENITIES NOT DESIGNATED FOR REMOVAL.
5. UNLESS OTHERWISE INDICATED ON THE PLANS OR DIRECTED BY THE ARCHITECT/ENGINEER, THE CONTRACTOR IS RESPONSIBLE FOR PRESERVING AND PROTECTING FROM DAMAGE ALL TREES, SHRUBS AND PLANTS IN THE VICINITY OF THE PROPOSED WORK.
6. THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES DESIGNATED TO REMAIN FOR THE DURATION OF THE CONTRACT.
7. ANY SITE AMENITY, UTILITY, STREET APPURTENANCE, OR OTHER ITEM WHICH BECOMES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED IN-KIND BY THE CONTRACTOR AS DETERMINED BY THE PROJECT MANAGER OR ARCHITECT/ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.

SURVEY NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. NO ALLOWANCE WILL BE MADE FOR ADDITIONAL COSTS DUE TO CONTRACTOR'S FAILURE TO VERIFY EXISTING CONDITIONS.
2. THE CONTRACTOR SHALL LOCATE, MARK, SAFEGUARD AND PRESERVE ALL SURVEY MARKERS AND RIGHT-OF-WAY MARKERS IN THE AREA OF CONSTRUCTION.
3. ANY IRON PINS, MONUMENTS OR OTHER ITEMS DEFINING PROPERTY LINES WHICH ARE DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE PROPERLY TIED AND ACCURATELY RESET BY A NYS LICENSED SURVEYOR UPON COMPLETION OF THE WORK.
4. HORIZONTAL DATUM BASED OFF NAD83-NYW.
5. VERTICAL BASED OFF OF NAVD88.

DEMOLITION NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. NO ALLOWANCE WILL BE MADE FOR ADDITIONAL COSTS DUE TO CONTRACTOR'S FAILURE TO VERIFY EXISTING CONDITIONS AND DIMENSIONS.
2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY DIG SAFE NEW YORK AT 811 TO REQUEST UTILITY STAKEOUT OF ALL PUBLIC UTILITIES.
3. THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING ABOVE GROUND AND BELOW GROUND UTILITIES, STRUCTURES, AND APPURTENANCES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES, STRUCTURES, AND APPURTENANCES IN THE PATH OF AND ADJACENT TO THE PROPOSED WORK.
4. SITE DRAINAGE, INCLUDING THE PROJECT SITE AND ADJACENT PRIVATE AND PUBLIC ROADWAYS, DRIVES, PARKING AREAS OR PROPERTIES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
5. CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES DESIGNATED TO REMAIN FOR THE DURATION OF THE CONTRACT.
6. THE CONTRACTOR SHALL NOTIFY THE LOCAL GOVERNMENT, LOCAL FIRE DEPARTMENT AND THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) AS NECESSARY AND SHALL OBTAIN ANY REQUIRED PERMITS PRIOR TO BEGINNING WORK. COPIES OF ANY REQUIRED PERMITS SHALL BE PROVIDED TO THE OWNER PRIOR TO BEGINNING THE WORK.
7. CONTRACTOR SHALL REMOVE FROM SITE, MATERIALS NOT INDICATED TO BE SALVAGED INCLUDING ALL DEBRIS. ALL REMOVED MATERIALS SHALL BECOME THE PROPERTY OF CONTRACTOR WHO SHALL LEGALLY DISPOSE OF SAME.
8. ALL TREES, SHRUBS AND PLANTS DESIGNATED TO REMAIN AND DISTURBED BY CONSTRUCTION OPERATIONS, SHALL BE REPLACED IN-KIND AS DIRECTED BY THE ARCHITECT/ENGINEER AND/OR OWNER'S DESIGNATED REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
9. THE CONTRACTOR SHALL MAINTAIN SAFE VEHICULAR AND PEDESTRIAN ACCESS TO THE EXISTING BUILDINGS FOR THE DURATION OF THE CONTRACT.
10. WHEN EXISTING CONSTRUCTION WHICH IS TO REMAIN IS DAMAGED DURING THE COURSE OF CONSTRUCTION AS A RESULT OF CONTRACTORS WORK, IT SHALL BE REPAIRED AND/OR REPLACED WITH SIMILAR OR LIKE MATERIALS, AT NO COST TO THE OWNER. ALL REPAIRS AND/OR REPLACEMENTS WILL BE SUBJECT TO OWNERS APPROVAL.
11. COORDINATE LOCATION OF TEMPORARY CONSTRUCTION FENCE AND TEMPORARY STONE STAGING AREA WITH OWNER

SITE NOTES

1. WELL COMPACTED SUBGRADE SHALL BE UTILIZED UNDERNEATH CONSTRUCTION OF PAVEMENT AND CONCRETE BASES.
2. ALL STAKEOUT FOR THE PROPOSED SITE IMPROVEMENTS SHALL BE COMPLETED BY A NEW YORK STATE LICENSED LAND SURVEYOR.
3. IF ANY DISCREPANCIES ARE NOTED BETWEEN THESE CONSTRUCTION DOCUMENTS AND INFORMATION PROVIDED OR AN ERROR IS SUSPECT, IT SHALL BE IMMEDIATELY REPORTED TO THE CONSTRUCTION MANAGER AND LABELLA ASSOCIATES PROJECT MANAGER IN WRITING.
4. ANY PROOF-ROLLING OF EXPOSED SUBBASE BY A MINIMUM 10 TON SMOOTH DRUM ROLLER SHALL BE DONE UNDER THE GUIDANCE OF, AND OBSERVED BY, QUALIFIED ENGINEERING PERSONNEL PRIOR TO PLACEMENT OF SUBBASE MATERIAL. THE ROLLER SHOULD BE OPERATED IN THE STATIC MODE AND COMPLETE AT LEAST TWO (2) PASSES OVER THE EXPOSED SUBGRADES.
5. EXISTING WETLANDS DELINEATED BY LABELLA ASSOCIATES ON 04/24/2020.

GRADING NOTES

1. THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF OSHA, AND ANY OTHER AGENCY HAVING JURISDICTION WITH REGARD TO SAFETY PRECAUTIONS WITH TRENCHING OPERATIONS. THE REQUIREMENTS SET FORTH HEREIN ARE INTENDED TO SUPPLEMENT REQUIREMENTS ESTABLISHED BY THESE AGENCIES. IN THE CASE OF A CONFLICT BETWEEN REQUIREMENTS OF OTHER JURISDICTIONAL AGENCIES AND THESE DOCUMENTS, THE MORE STRINGENT REQUIREMENT ON THE CONTRACTOR SHALL APPLY.
2. SHEETING, IF REQUIRED DURING CONSTRUCTION, IS CONSIDERED TO BE PART OF THIS CONTRACT AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
3. CONTRACTOR SHALL ADJUST THE RIMS OF ALL MANHOLES, CATCH BASINS, VALVE BOXES AND OTHER UTILITY SITE STRUCTURES TO MEET FINISHED GRADE IN AREAS REQUIRING REPAVING OR REGRADING AS PART OF THE WORK, INCLUDING THOSE THAT MAY NOT BE SHOWN ON THE PLANS.
4. VOIDS LEFT BY UTILITY OR STRUCTURE REMOVAL OR GRUBBING OPERATIONS SHALL BE BACKFILLED AND PROPERLY COMPACTED WITH STRUCTURAL FILL (NYSDOT ITEM 304.12) IN AREAS UNDER AND WITHIN 5 FEET HORIZONTALLY OF ALL STRUCTURES, BUILDINGS AND PAVEMENTS. IN GRASSED AREAS, VOIDS LEFT SHALL BE FILLED AND PROPERLY COMPACTED WITH SUITABLE ON-SITE OR IMPORTED EARTHEN BACKFILL. ALL DISTURBED AREAS SHALL BE RESTORED.
5. THE CONTRACTOR SHALL DEWATER ALL EXCAVATIONS TO PREVENT THE INTRODUCTION OF GROUNDWATER INTO THE TRENCHES/EXCAVATIONS. PROVIDE ALL EQUIPMENT NECESSARY TO MAINTAIN THE GROUNDWATER LEVEL AS NECESSARY.
6. THE CONTRACTOR SHALL PLACE AT MINIMUM 6 INCHES OF CLEANED SCREENED TOPSOIL IN ALL DISTURBED AREAS PRIOR TO SEEDING.

EROSION AND SEDIMENT CONTROL NOTES

1. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, AND LOCAL GOVERNING SOIL AND WATER CONSERVATION AGENCY RECOMMENDATIONS AND STANDARDS. CONTRACTOR SHALL SUBMIT PROPOSED EROSION CONTROL PLAN INCLUDING SEQUENCING OF WORK TO THE ENGINEER FOR REVIEW PRIOR TO START OF WORK.
2. UTILIZE CONSTRUCTION METHODS/TECHNIQUES, WHICH WILL LIMIT THE EXPOSED EARTHEN AREAS AND MINIMIZE THE EFFECT OF EARTH DISTURBANCE ACTIVITIES ON SOIL EROSION. THE AREA OF DISTURBANCE SHALL BE LIMITED TO A MAXIMUM OF 5 ACRES UNLESS OTHERWISE APPROVED BY THE ENGINEER.
3. ALL SEDIMENTATION BARRIERS AND OTHER TEMPORARY OR PERMANENT MEASURES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION. PLANS SHOW THE SUGGESTED MINIMUM MEASURES REQUIRED.
4. REMOVAL OF ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE COMPLETED AT THE APPROVAL OF THE OWNER AND ENGINEER. THE COST OF REMOVING THESE MEASURES SHALL ALSO BE INCLUDED IN THE BID PRICE.
5. FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL PROTECT ALL ON-SITE, ADJACENT AND/OR DOWNSTREAM STORM/SANITARY SEWERS, AND/OR OTHER WATER COURSES FROM CONTAMINATION BY WATER BORNE SILTS, SEDIMENTS, FUELS, SOLVENTS, LUBRICANTS OR OTHER POLLUTANTS ORIGINATING FROM ANY WORK DONE ON, OR IN SUPPORT OF THIS PROJECT.
6. DURING CONSTRUCTION NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO STORM/SANITARY SEWERS, DITCHES OR OTHER WATERS OF NEW YORK STATE, NOR SHALL WASHINGS FROM CONCRETE TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER ANY STORM/SANITARY SEWERS, DITCHES, RIVERS, OR WATER COURSES.
7. ALL EXCAVATED OR IMPORTED EARTHEN STOCKPILES SHALL BE SUITABLY STABILIZED AND PROTECTED BY SILT FENCE SO THAT IT CANNOT REASONABLY ENTER ANY WATER BODY, OR STORM OR SANITARY SEWER.
8. ALL METHODS AND EQUIPMENT PROPOSED BY THE CONTRACTOR TO ACCOMPLISH THE WORK FOR EROSION AND POLLUTION CONTROL SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.
9. THE CONTRACTOR SHALL BE REQUIRED TO TREAT TRAVELED AREAS TO CONTROL DUST. WATER SHALL BE APPLIED TO SUCH TRAVELED AREAS AS THE ARCHITECT/ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE MAY DESIGNATE. THE NUMBER OF APPLICATIONS AND THE AMOUNT OF WATER SHALL BE BASED UPON FIELD AND WEATHER CONDITIONS.
10. ALL AREAS OF SOIL DISTURBANCE RESULTING FROM THIS PROJECT WHICH WILL NOT BE SUBJECT TO FURTHER EARTHWORK OR CONSTRUCTION ACTIVITIES SHALL BE PERMANENTLY SEEDED TO ESTABLISH GRASS, AND MULCHED WITH HAY OR STRAW WITHIN ONE WEEK OF FINAL DISTURBANCE. MULCH SHALL BE MAINTAINED UNTIL A SUITABLE VEGETATIVE COVER IS ESTABLISHED.
11. CONTRACTOR STAGING AREAS AND CONSTRUCTION ENTRANCE LOCATIONS SHALL BE COORDINATED WITH THE OWNER PRIOR TO START OF CONSTRUCTION. STABILIZED CONSTRUCTION ENTRANCE(S), AS SHOWN ON THE PLANS SHALL BE PROVIDED. ALL DISTURBED AREAS SHALL BE RESTORED.
12. TILL ALL COMPACTED SOILS LOCATED IN LAWN AREAS TO RESTORE THE ORIGINAL PROPERTIES OF THE SOIL PRIOR TO SEEDING.

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROJECT BENCHMARK / CONTROL POINTS
		WETLAND
		WETLAND BUFFER
		LANDFILL GAS VENT
		BORING LOCATIONS
		TREE REMOVAL
		TREE PROTECTION
		BALLASTED CHAIN LINK FENCE WITH FABRIC MESH SCREENING
		BALLASTED CHAIN LINK FENCE
		TREE/VEGITATION LIMIT
BLDG	BLDG	BUILDING/STRUCTURE
		PROPERTY LINE
		SETBACK LINE
PE	PE	EASEMENTS
R.O.W.	R.O.W.	RIGHT-OF-WAY
		DECIDUOUS TREE
		CONIFEROUS TREE
		TREE STUMP
		UTILITY POLE
		END SECTION
OE OE	OE OE	OVERHEAD ELECTRIC
P P	P P	POWER LINE
UE UE	UE UE	UNDERGROUND ELECTRIC
G	G	GAS LINE
ST ST	ST ST	STORM LINE
	UD UD UD	STORM UNDERDRAIN PIPE
W W	W W	WATER LINE
510	510	MAJOR CONTOUR
509	509	MINOR CONTOUR
		℄ OF DRAINAGE SWALE
		EROSION FENCE
		FLOW/SLOPE DIRECTION
		SILT SOCK INLET PROTECTION
		SILT FENCE INLET PROTECTION
		CHECK DAM
		STABILIZED CONSTRUCTION ENTRANCE (TEMPORARY)

DRAWING INDEX

C001 GENERAL NOTES, LEGEND, AND DRAWING INDEX

C101 EXISTING CONDITIONS PLAN

C200 SITE LOCATION PLAN

C201 SITE AND UTILITY PLAN

C202 SITE AND UTILITY PLAN

C401 GRADING AND EROSION CONTROL PLAN

C501 CONSTRUCTION DETAILS

C502 CONSTRUCTION DETAILS

C503 CONSTRUCTION DETAILS

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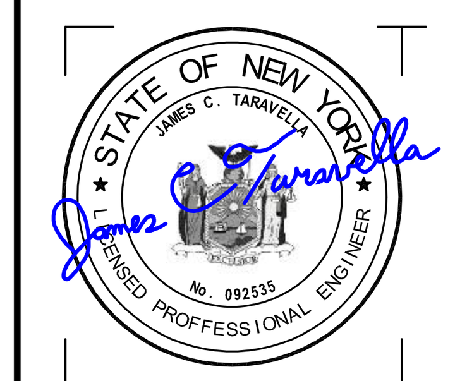

AC POWER 14, LLC
465 GRAND STREET, SUITE 5
NEW YORK, NY 10002

LANCASTER LANDFILL SOLAR
GUNNVILLE ROAD, LANCASTER, NY 14086

NO:	DATE:	DESCRIPTION:
2	6/25/2021	SITE GLARE SCREENING
1	4/7/2021	SITE LAYOUT REVISIONS

Revisions

PROJECT NUMBER: 2201371

DRAWN BY: LMR

REVIEWED BY: JCT

ISSUED FOR: SITE PLAN APPLICATION

DATE: JUNE 2021

DRAWING NAME:

GENERAL NOTES, LEGEND AND DRAWING INDEX

DRAWING NUMBER:

C001

1 / C101 EXISTING CONDITIONS PLAN

SCALE: 1" = 80'

NOTES:

1. **APPROXIMATE LIMITS OF LANDFILL COVER BASED ON TEST PITS PERFORMED BY LABELLA ASSOCIATES IN SEPTEMBER 2020, SUBMITTED IN A LANDFILL COVER EVALUATION REPORT TO THE NYSDEC DATED OCTOBER 2020.**
2. **LANDFILL VENTS SHALL HAVE A MINIMUM 12' BUFFER.**

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STATE OF NEW YORK
JAMES C. TARANTELLA
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No. 092532

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NEW YORK, NY 10002

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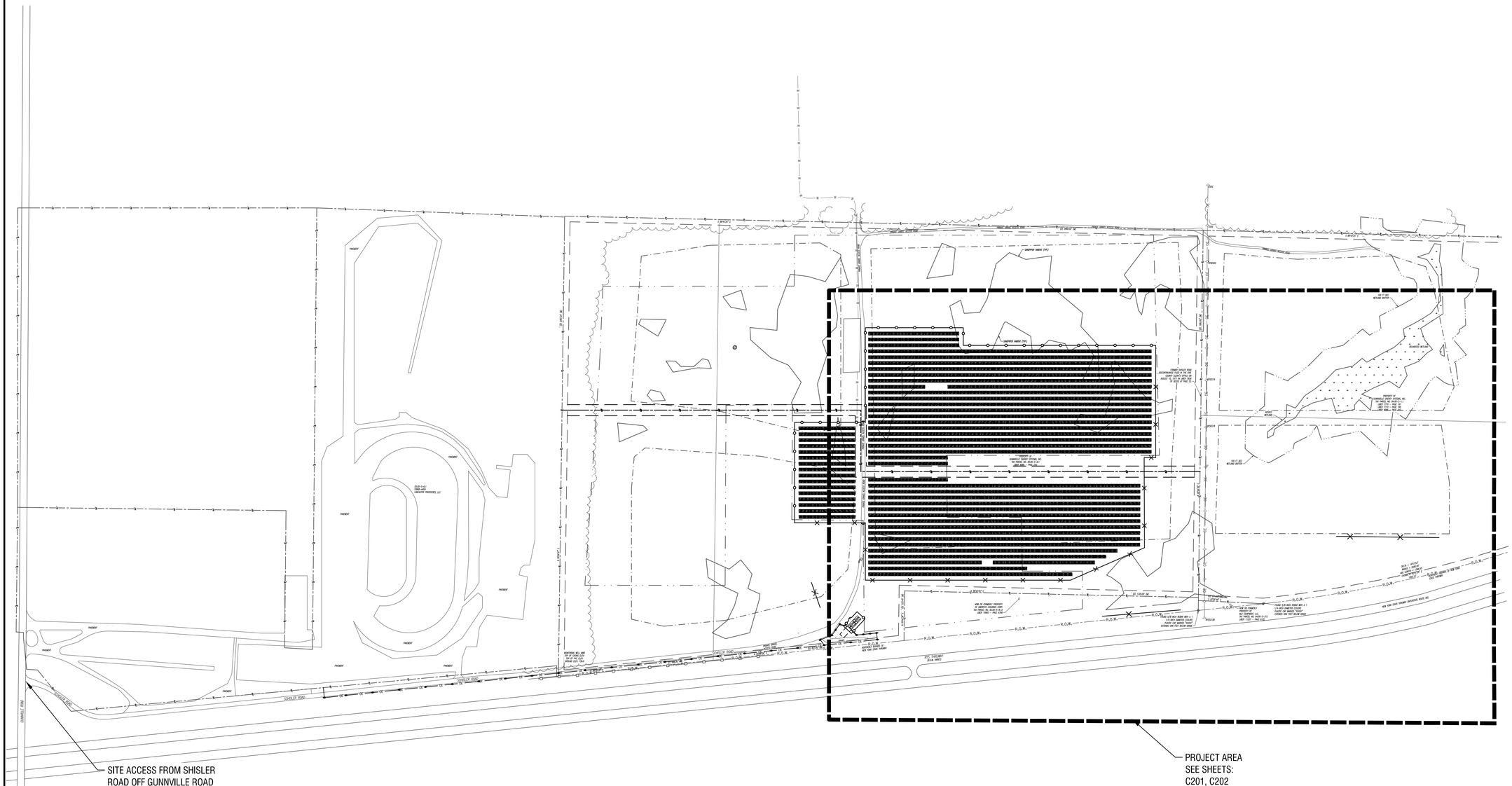
NO:	DATE:	DESCRIPTION:
1	4/7/2021	SITE LAYOUT REVISIONS
Revisions		

PROJECT NUMBER: 2201371
DRAWN BY: LMR
REVIEWED BY: JCT
ISSUED FOR: SITE PLAN APPLICATION
DATE: JUNE 2021
DRAWING NAME:

EXISTING CONDITIONS PLAN

DRAWING NUMBER:

C101



1 C200 SITE LOCATION PLAN

SCALE: 1" = 225'

N

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LANCASTER LANDFILL SOLAR
GUNNVILLE ROAD, LANCASTER, NY 14086

NO:	DATE:	DESCRIPTION:
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1	4/7/2021	SITE LAYOUT REVISIONS

Revisions

PROJECT NUMBER: 2201371
DRAWN BY: LMR
REVIEWED BY: JCT
ISSUED FOR: SITE PLAN APPLICATION
DATE: JUNE 2021
DRAWING NAME:

SITE LOCATION PLAN

DRAWING NUMBER:

C200

1 C201 SITE AND UTILITY PLAN

SCALE: 1" = 80'

N

NOTES:

1. **APPROXIMATE LIMITS OF LANDFILL COVER BASED ON TEST PITS PERFORMED BY LABELLA ASSOCIATES IN SEPTEMBER 2020, SUBMITTED IN A LANDFILL COVER EVALUATION REPORT TO THE NYSDEC DATED OCTOBER 2020.**
2. **LANDFILL VENTS SHALL HAVE A MINIMUM 12' BUFFER.**

PROJECT DATA

PARCEL INFORMATION

APPLICANT	AC POWER
DEVELOPER	AC POWER
OWNER	GUNNVILLE ENERGY SYSTEMS (LANDOWNER)
PARCEL ADDRESS	GUNNVILLE ROAD, LANCASTER, NY 14086
TAX NUMBER	83.00-5-6.1 AND 84.00-3-1.1
PARCEL AREA (TOTAL)	197 ACRES
PROJECT AREA	±34.3 ACRES
EXISTING IMPERVIOUS WITHIN PROJECT AREA	0.15 ACRES
PROPOSED IMPERVIOUS WITHIN PROJECT AREA	0.19 ACRES
PANEL COVERAGE	13.78 ACRES
TOTAL DISTURBANCE AREA	±1.95 ACRES

ZONING INFORMATION

	REQUIRED	ARRAY 1 PROPOSED	ARRAY 2 PROPOSED
CLASSIFICATION	SAND, GRAVEL, AGGREGATES (SGA) DISTRICT	SGA DISTRICT	SGA DISTRICT
FRONT SETBACK	40 FT	±68 FT	±216 FT
SIDE SETBACK	25 FT	±25 FT	±35 FT
REAR SETBACK	50 FT	±51 FT	±51 FT
LOT COVERAGE	80% MAX	±31%	±31%

ARRAY INFORMATION

	ARRAY 1	ARRAY 2
MODULE TYPE	ZNSHINE 525W	
ELECTRICAL INVERTER	CHINT CPS125	CHINT CPS125
MODULE COUNT	12,636	11,570
DC CAPACITY	6.63 MW dc	6.08 MW dc
AC CAPACITY	5.00 MW ac	4.47 MW ac
DC/AC RATIO	1.33	1.36

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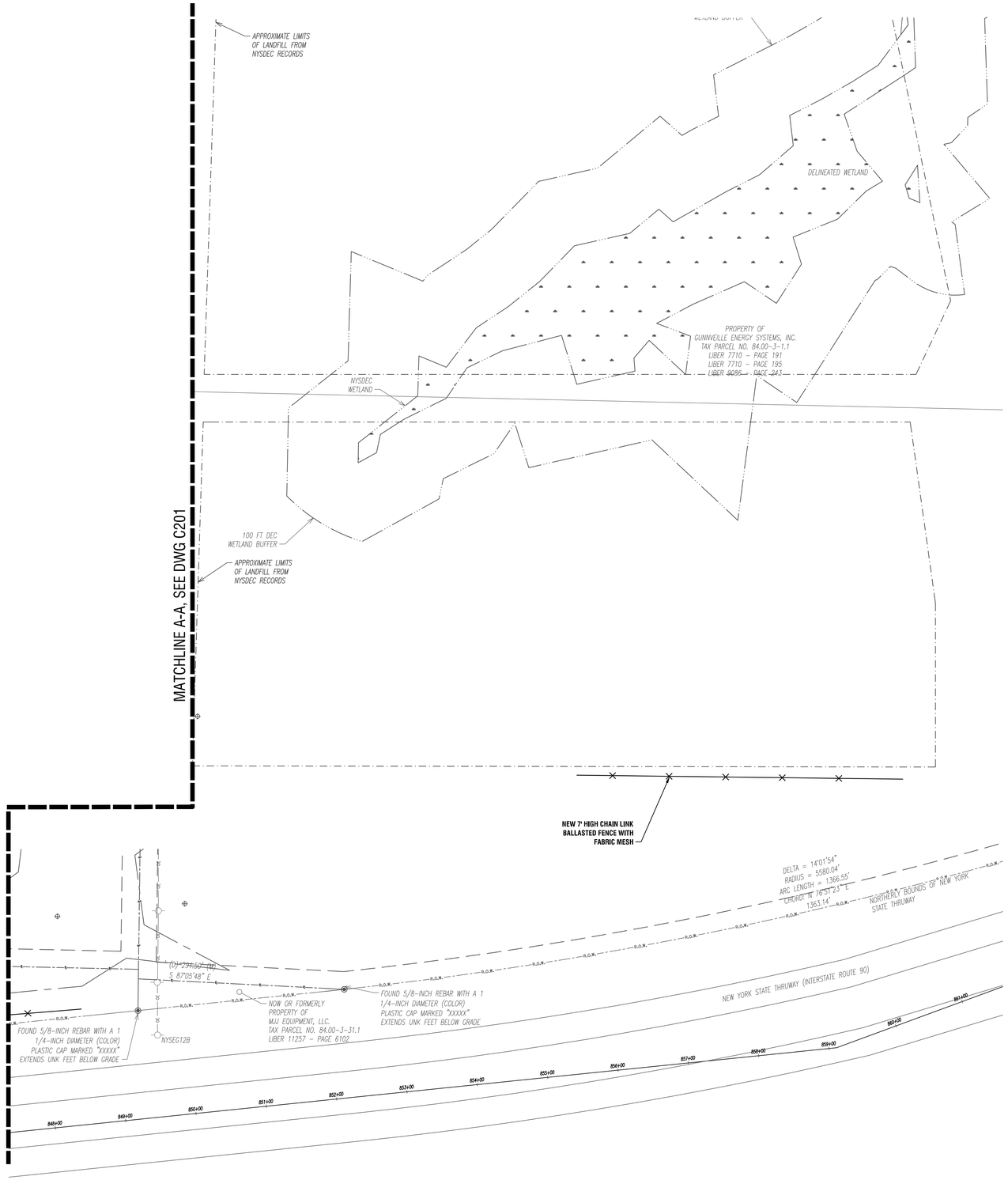
DRAWING NAME:

SITE AND UTILITY PLAN

DRAWING NUMBER:

C201



1 / C202 SITE AND UTILITY PLAN

SCALE: 1" = 80'

N

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NO:	DATE:	DESCRIPTION:
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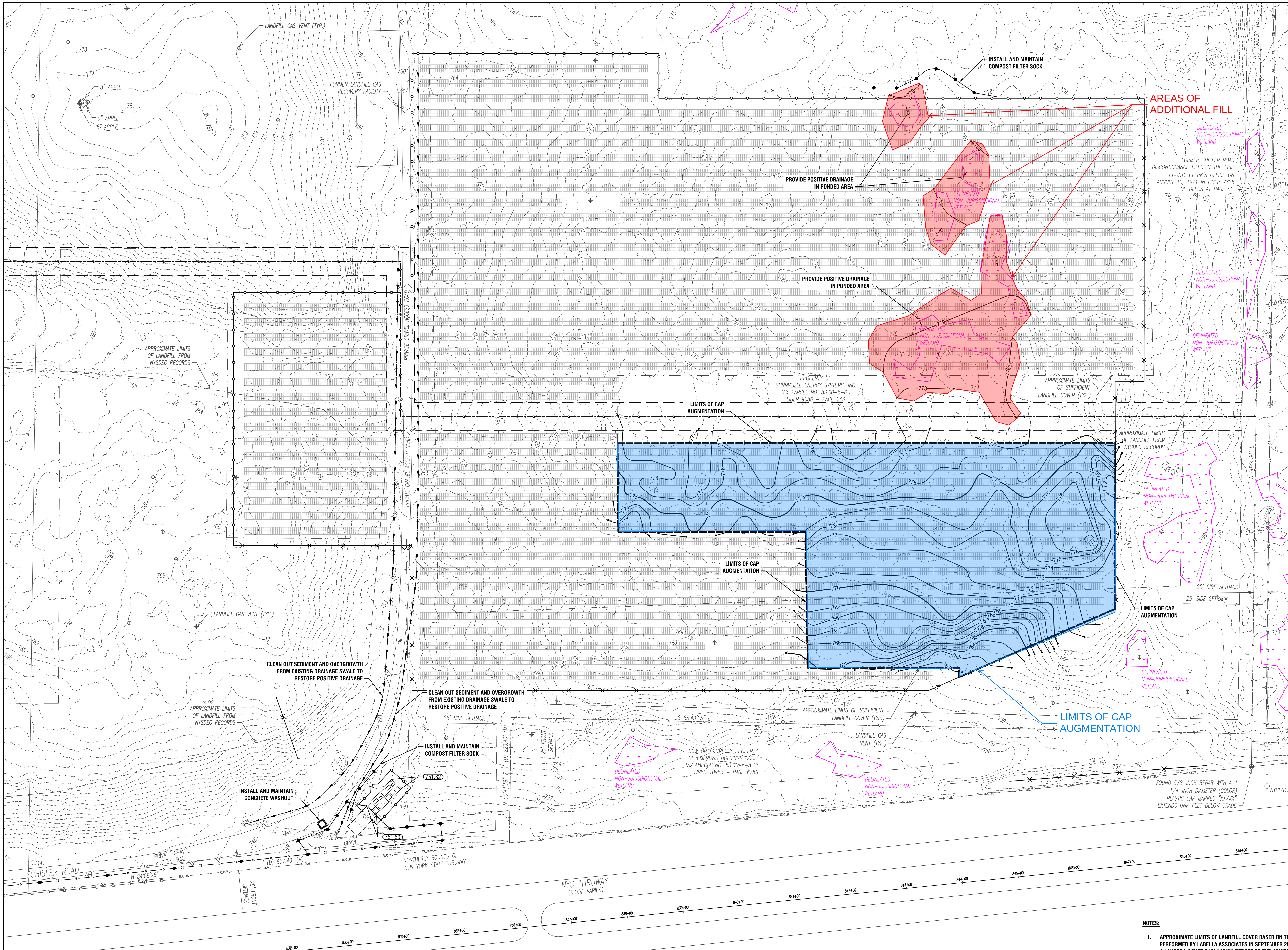
1	4/7/2021	SITE LAYOUT REVISIONS
Revisions		

PROJECT NUMBER: 2201371
DRAWN BY: LMR
REVIEWED BY: JCT
ISSUED FOR: SITE PLAN APPLICATION
DATE: JUNE 2021
DRAWING NAME:

SITE AND UTILITY PLAN

DRAWING NUMBER:

C202



NOTES:

1. APPROXIMATE LIMITS OF LANDFILL COVER BASED ON TEST PITS PERFORMED BY LABELLA ASSOCIATES IN SEPTEMBER 2020, SUBMITTED IN A LANDFILL COVER EVALUATION REPORT TO THE NYSDEC DATED OCTOBER 2020.
2. LANDFILL VENTS SHALL HAVE A MINIMUM 12' BUFFER.

1 / C401 — GRADING AND EROSION CONTROL PLAN

SCALE: 1" = 80'

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AC POWER 14, LLC

465 GRAND STREET, SUITE 5
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LANCASTER LANDFILL SOLAR

GUNNVILLE ROAD, LANCASTER, NY 14086

NO:	DATE:	DESCRIPTION:
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1	4/7/2021	SITE LAYOUT REVISIONS

Revisions

PROJECT NUMBER: 2201371

DRAWN BY: LMR

REVIEWED BY: JCT

ISSUED FOR: SITE PLAN APPLICATION

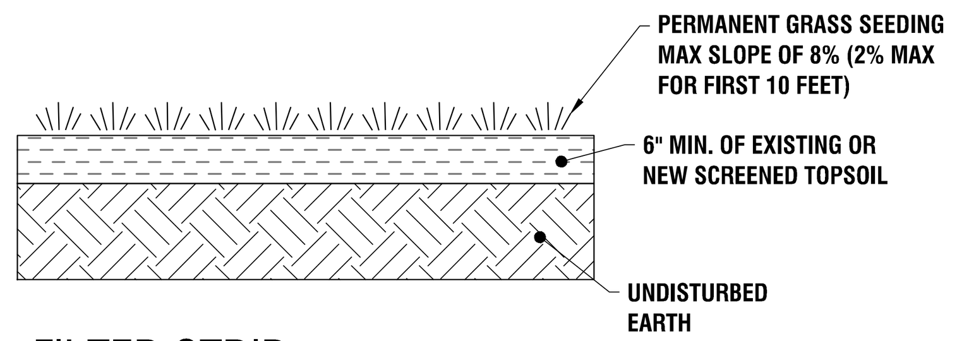
DATE: JUNE 2021

DRAWING NAME:

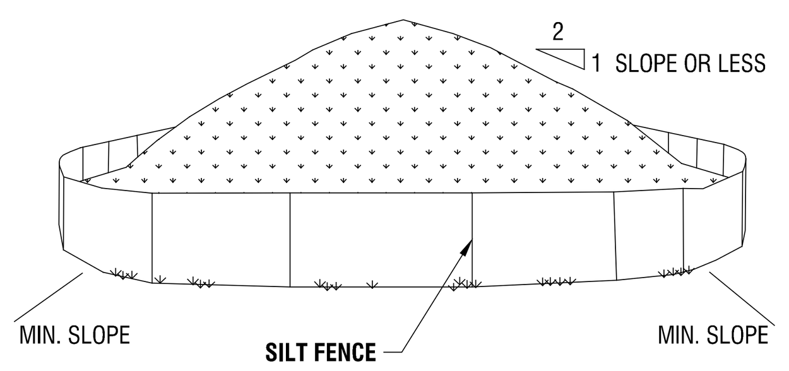
GRADING AND EROSION CONTROL PLAN

DRAWING NUMBER:

C401



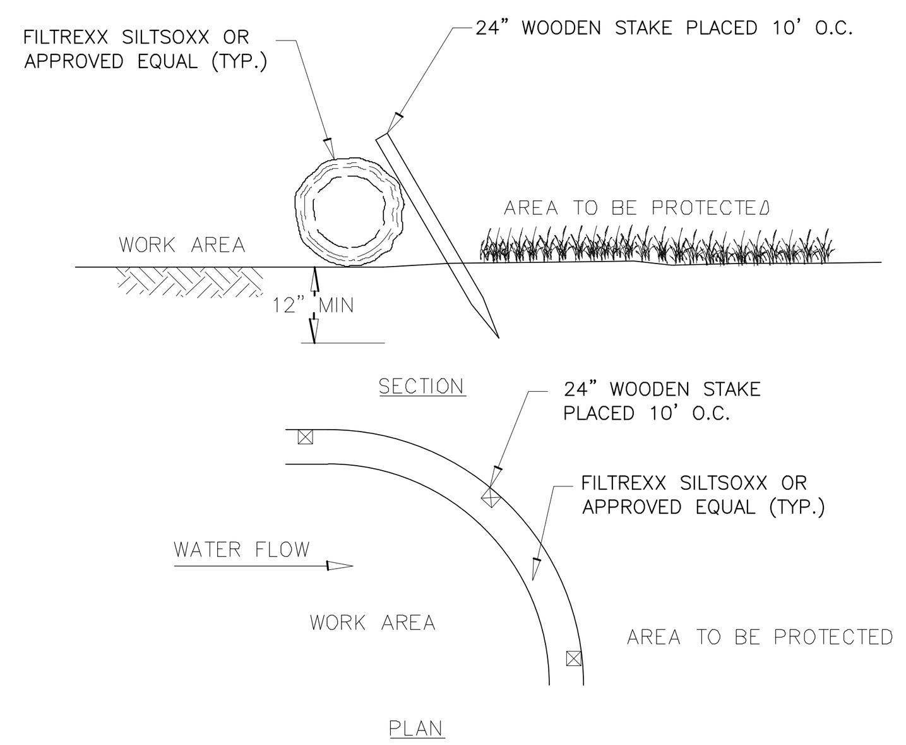
8 / C501 **FILTER STRIP**
N.T.S.



NOTES:

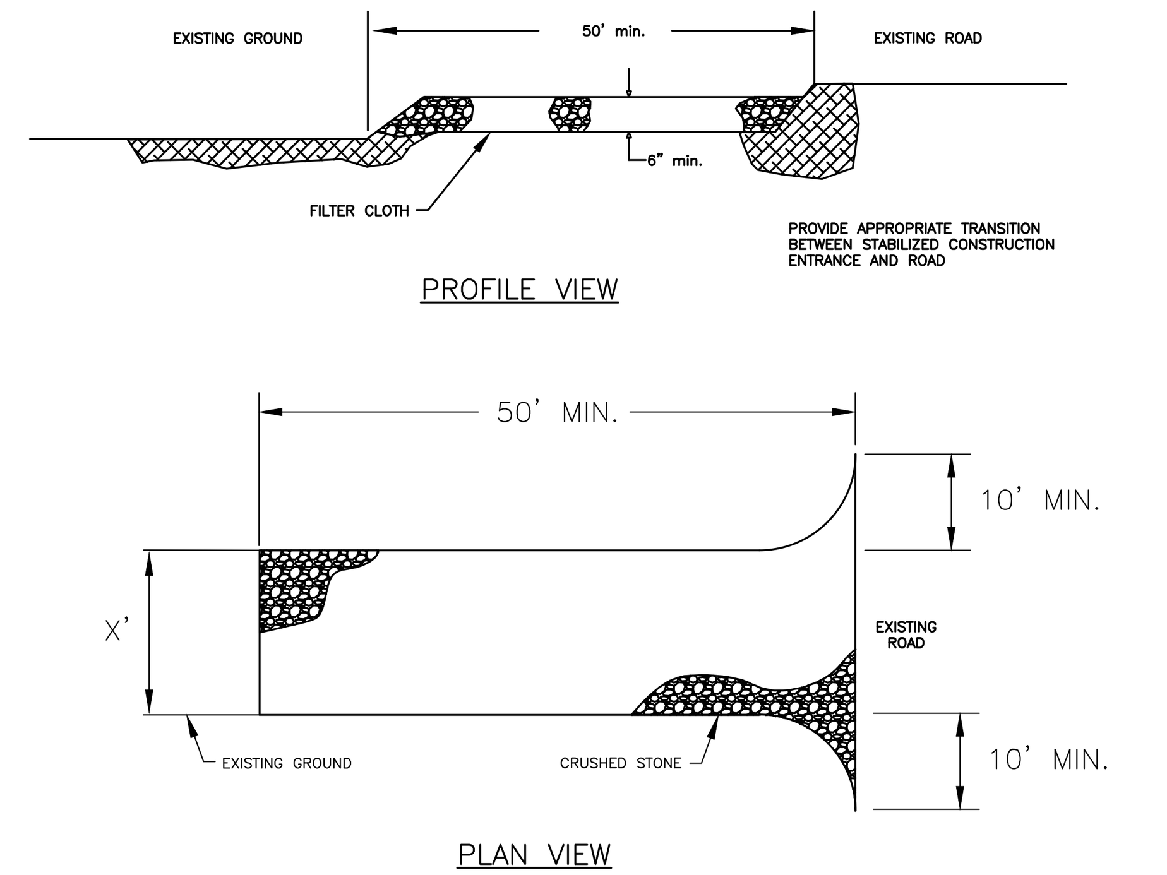
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1V:2H.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SPECIFICATIONS AND DETAIL FOR INSTALLATION OF SILT FENCE.

7 / C501 **TEMPORARY SOIL STOCKPILE**
N.T.S.



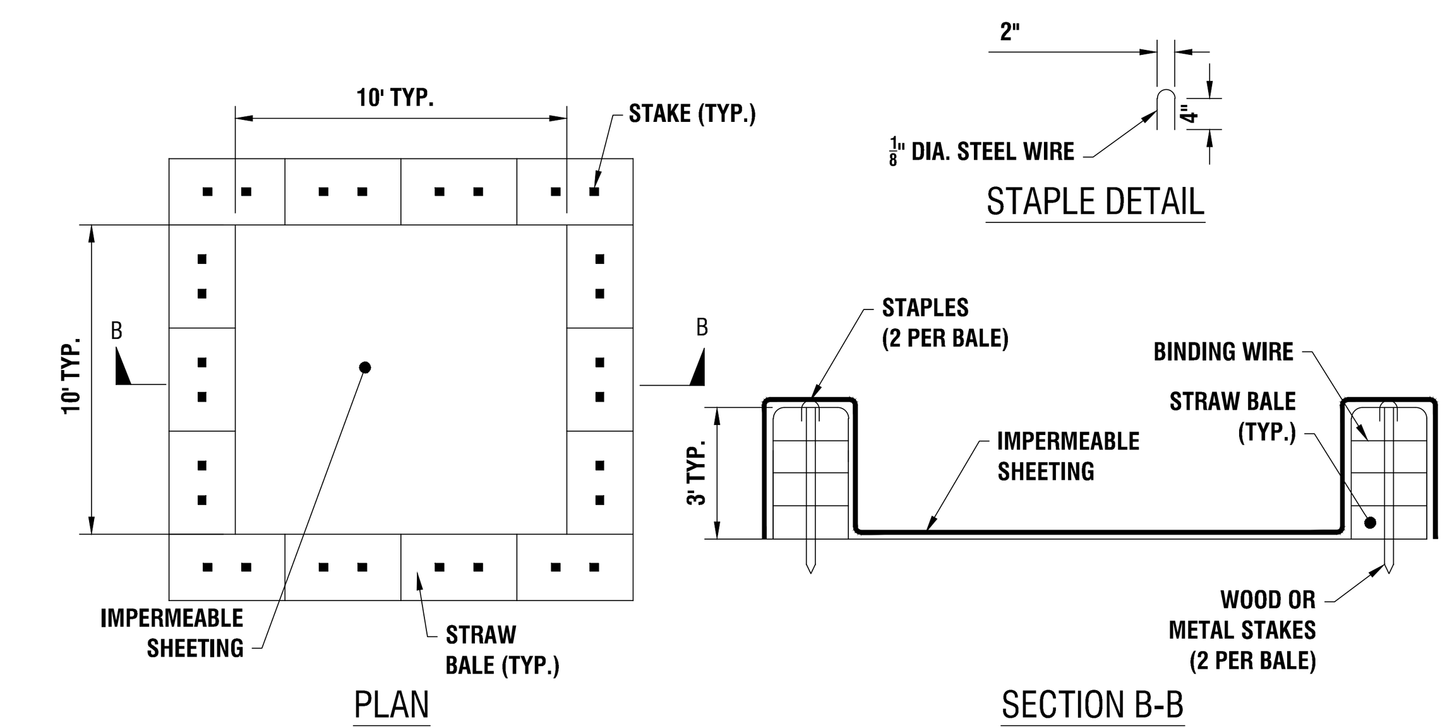
1. FILTER SOCK SHALL BE 12" DIAMETER MIN.
2. SOCKS TO BE FILLED WITH BIODEGRADABLE COMPOST MATERIAL.
3. WOODEN STAKES SHALL BE PLACED DOWNSLOPE OF THE FILTER SOCK.

6 / C501 **COMPOST FILTER SOCK**
NEXTERA DETAIL



1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 1 TO 2 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE PROPOSED ENTRANCE.
5. GEOTEXTILE FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARDS THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE SURFACE.
7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO EXISTING ROAD. THIS MANY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO EXISTING ROAD SHALL BE REMOVED IMMEDIATELY.

5 / C501 **STABILIZED CONSTRUCTION ACCESS**
NEXTERA DETAIL



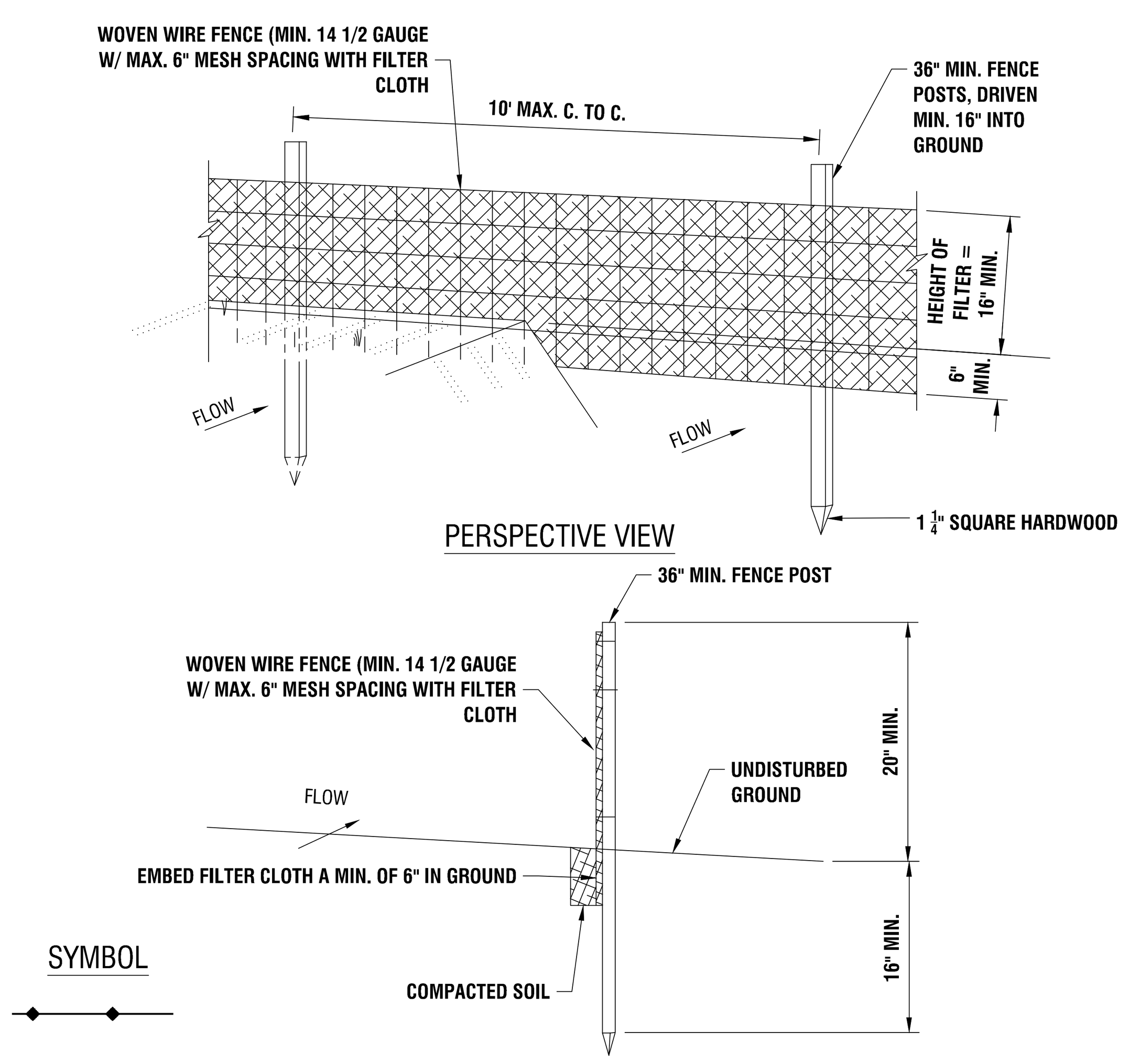
NOTE:

CAN BE TWO STACKED BALES OR PARTIALLY EXCAVATED TO REACH 3 FT DEPTH

CONSTRUCTION SPECIFICATIONS

1. LOCATE WASHOUT STRUCTURE A MINIMUM OF 50 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.
2. SIZE WASHOUT STRUCTURE FOR VOLUME NECESSARY TO CONTAIN WASH WATER AND SOLIDS AND MAINTAIN AT LEAST 4 INCHES OF FREEBOARD. TYPICAL DIMENSIONS ARE 10 FEET X 10 FEET X 3 FEET DEEP.
3. PREPARE SOIL BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER, USE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND TEARS OR OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.
4. PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.
5. KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT. REPLACE IMPERMEABLE LINER IF DAMAGED (E.G., RIPPED OR PUNCTURED). EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER. WET-VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED AND DISPOSE OF IN AN APPROVED MANNER. PRIOR TO FORECASTED RAINSTORMS, REMOVE LIQUIDS OR COVER STRUCTURE TO PREVENT OVERFLOWS. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.

4 / C501 **CONCRETE WASHOUT AREA WITH STRAW BALES**
N.T.S.

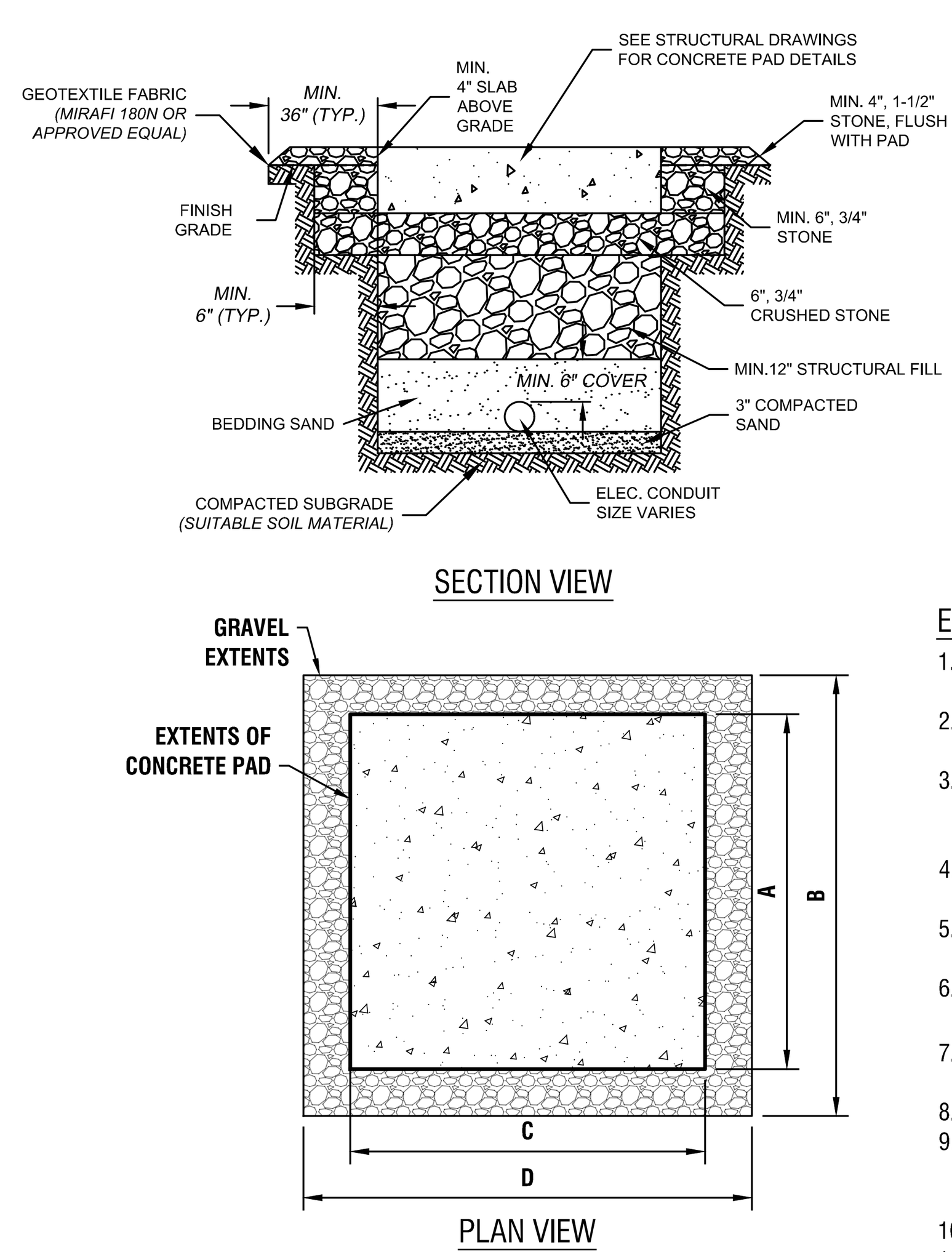


SYMBOL

NOTES:

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, STABLINKA 140N, OR APPROVED EQUAL.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

3 / C501 **SILT FENCE**
NYS DEC DETAIL: SILT FENCE

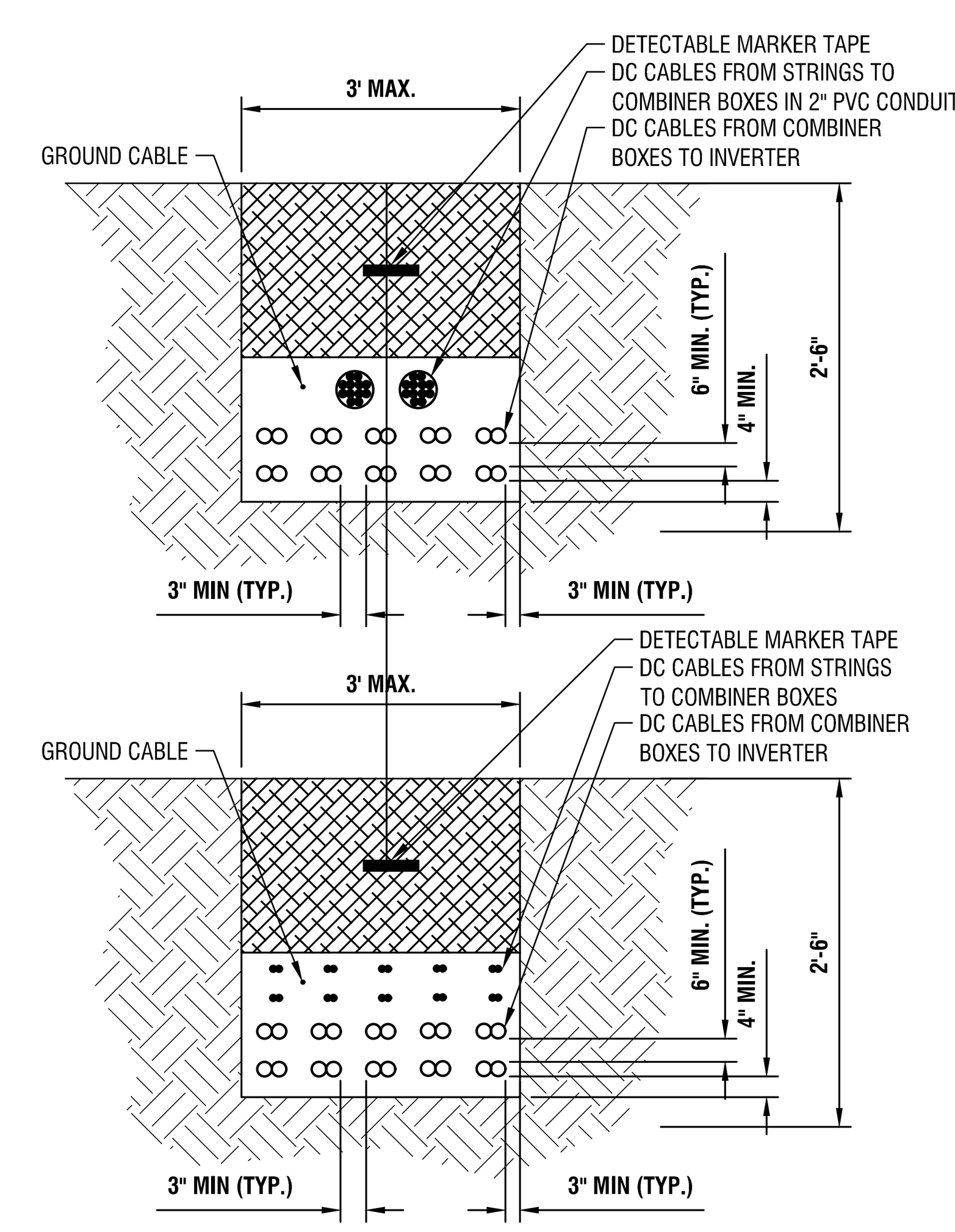


EQUIPMENT SKID DIMENSIONS				
EQUIPMENT	DIM. A (FT)	DIM. B (FT)	DIM. C (FT)	DIM. D (FT)
MAIN EQUIPMENT PAD	40	46	23	29

EQUIPMENT SKID NOTES:

1. ALL ELECTRICAL EQUIPMENT IS TO BE SITUATED ON A CONCRETE PAD AS SHOWN ON THE SITE PLANS.
2. CONCRETE STRENGTH: CLASS B CONCRETE. CONTRACTOR SHALL ALLOW 3 DAYS CURING TIME PRIOR TO INSTALLATION OF EQUIPMENT ON CONCRETE PAD.
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, Fy=64500 PSI, AND SHALL BE HOT-DIPPED GALVANIZED OR EPOXY COATED AFTER FABRICATION TO PRODUCE A CLASS 2 COATING EQUAL TO THAT SPECIFIED IN ASTM A641, TABLE 1.
4. ANCHOR BOLTS SHALL BE DRILLED AND SET IN FIELD AFTER INSTALLATION ON FOOTING AS PER MANUFACTURER'S SPECIFICATIONS.
5. LOCATION OF ALL ELECTRICAL EQUIPMENT AND CONCRETE PADS SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION.
6. COMPACTED STONE SHALL BE NYSDOT TYPE 2 CRUSHED GRAVEL OR APPROVED EQUAL BY THE ENGINEER OF RECORD.
7. ANCHOR BOLTS SHALL BE 1/2" DIA. HILTI HSE ADHESIVE ANCHOR RODS WITH 4-1/2" EMBEDMENT DEPTH OR APPROVED EQUAL.
8. REINFORCEMENT BARS SHALL CONFORM TO ASTM A615, GRADE 60.
9. VERIFY ALL DIMENSIONS WITH THOSE ON EQUIPMENT SKID SHOP DRAWINGS AND ADJUST ACCORDINGLY. LOCATE CHASES AND CONDUIT STUB-UPS PER EQUIPMENT SKID SHOP DRAWINGS.
10. GROUNDING PLATE TO BE LOCATED UNDERNEATH EQUIPMENT PAD
11. GROUNDING RINGS TO BE BURIED AT EQUIPMENT PAD LOCATION

2 / C501 **CONCRETE PAD**
N.T.S.



TRENCH NOTES:

1. ADDITIONAL MISCELLANEOUS CABLES FROM FIELD DEVICES SUCH AS TEMPERATURE TRANSMITTERS, METEOROLOGICAL STATIONS, REFERENCE MODULES, SIGNAL, GROUND SHALL UTILIZE THE UNDERGROUND TRENCH SYSTEM WHERE IT IS APPLICABLE. CABLES SHALL BE INSTALLED AT LAYERS AS INDICATED.
2. THE TRENCH DETAIL BELOW SHOWS A SAMPLE NUMBER OF DC FEEDER CABLES FROM DC COMBINER BOXES. SPECIFIC CABLE QUANTITIES ARE SHOWN IN RESPECTIVE DETAIL SECTION.
3. TRENCHING MUST COMPLY WITH THE LATEST STANDARDS.
4. CLEAN FILL REQUIREMENTS: TRENCHING BEDDING SHALL BE SAND OR ROCK-FEE FILL SCREENED TO A MAXIMUM 1/4" SIZE AS A CUSHING (FREE OF SHARP EDGE MATERIAL, ROTTING WOOD OR ORGANIC MATTER THAT MIGHT ATTRACT INSECTS).
THE CABLES SHALL BE COVERED WITH "CLEAN FILL" SAND OR SOFT EARTH, FREE FROM STONES, ROCKS OR OTHER MATERIAL THAT MAY DAMAGE THE CABLE DURING BACKFILL.
5. THE CABLES CROSS-SECTION AND THE NUMBER SHOWN IS ONLY AN EXAMPLE. ALL CABLES SHALL BE IN ACCORDANCE WITH STANDARDS AND SHALL BE SIZED ACCORDING TO USE AND TYPE OF INSTALLATION.

- UNTREATED NATIVE SOIL
- CLEAN, DRY BACKFILL CUSHION
- EARTH UNDISTURBED

NOTES:

1. CONDUCTORS TO BE 1000V RATED FOR DIRECT BURIIAL. MEDIUM VOLTAGE CONDUCTORS FROM PS1 TO BE RATED FOR CLASS 35KV, AND MEDIUM VOLTAGE CONDUCTORS FROM PS2 TO BE RATED FOR CLASS 15KV.
2. CONDUCTORS OF THE SAME CIRCUIT TO BE NEXT TO EACH OTHER; COMBINER CIRCUITS TO BE SPACED 4.5" FROM EACH OTHER UNLESS POSTED OTHERWISE (HORIZONTAL/VERTICAL DIRECTIONS).
3. COMMUNICATIONS TO BE BURIED 1' AWAY FROM ALL POWER CONDUCTORS. USE DIRECT BURY RATED FIBER CABLE.
4. 3" OR 4" PVC SCH80 JUMP-CONDUIT SHALL BE UTILIZED FOR ROW-TO-ROW STRING CIRCUITS WIRING.
5. POWER SUPPLY CABLES TO ARC FAULT CIRCUIT INTERRUPTION CIRCUITS SHALL BE LOCATED AT A MINIMUM 1' FROM DC CIRCUITS.
6. CONTRACTOR SHALL SIZE THE ROW-TO-ROW JUMPER CONDUIT FOR THE CONDUCTORS USED, WITH PVC SCHEDULE 80. A TOTAL OF 60 #10 HOMERUN CABLES CAN FIT INTO A STANDARD 4" PVC CONDUIT. CONTACT THE ENGINEER IF ADDITIONAL GUIDANCE IS REQUIRED.

1 / C501 **TYPICAL TRENCH DETAILS**
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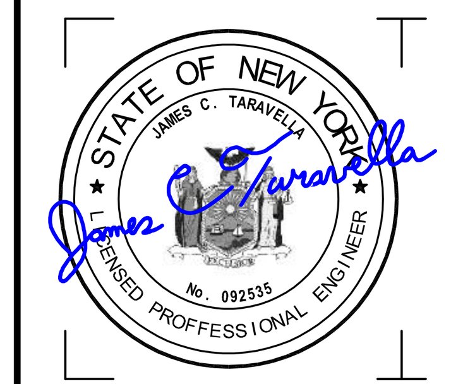


AC POWER 14, LLC
465 GRAND STREET, SUITE 5
NEW YORK, NY 10002

LANCASTER LANDFILL SOLAR
GUNNVILLE ROAD, LANCASTER, NY 14086

NO:	DATE:	DESCRIPTION:
1	4/7/2021	SITE LAYOUT REVISIONS

Revisions

PROJECT NUMBER: 2201371

DRAWN BY: LMR

REVIEWED BY: JCT

ISSUED FOR: SITE PLAN APPLICATION

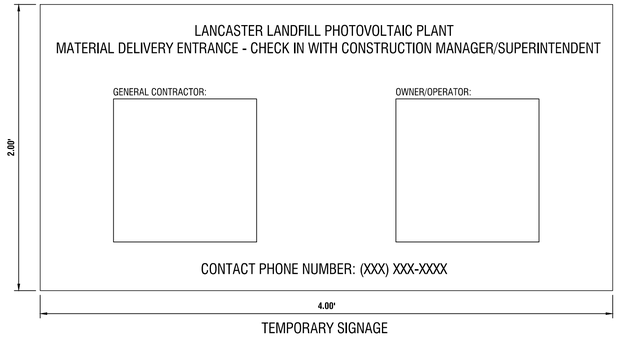
DATE: JUNE 2021

DRAWING NAME:

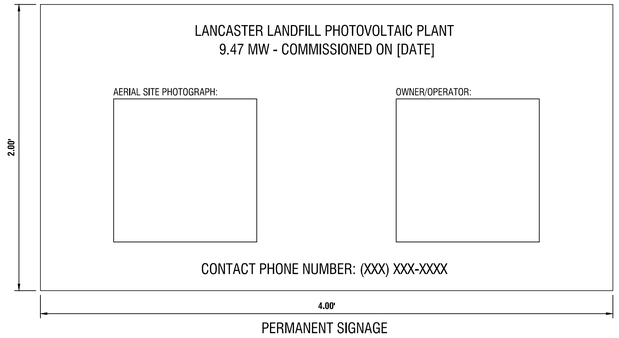
CONSTRUCTION DETAILS

DRAWING NUMBER:

C501



TEMPORARY SIGNAGE



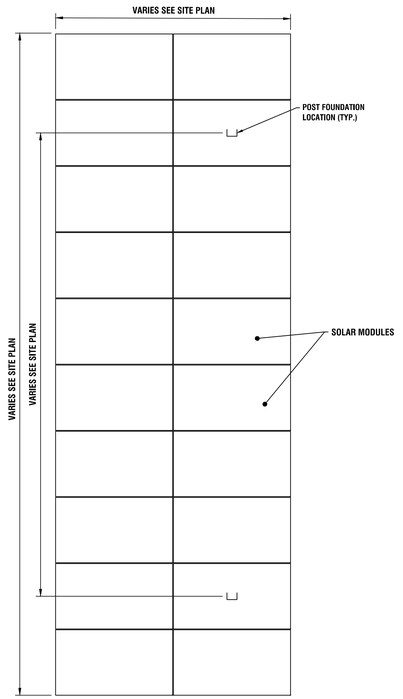
PERMANENT SIGNAGE

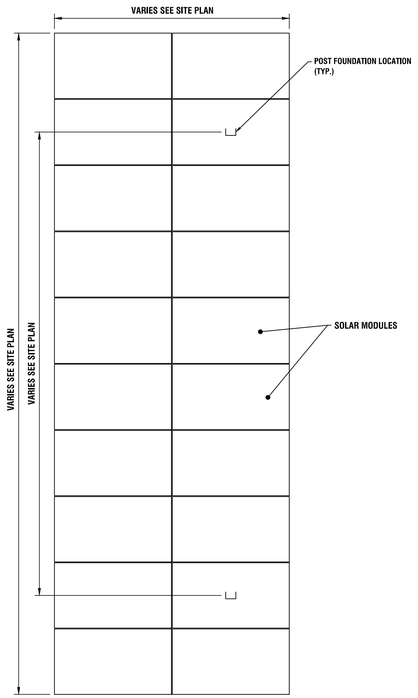
NOTES:

1. TEMPORARY SIGNAGE TO BE INSTALLED ALONG GRAVEL DRIVE PRIOR TO CONSTRUCTION.
2. TEMPORARY SIGNAGE TO BE REMOVED AFTER ARRAY HAS BEEN COMMISSIONED AND BEFORE PERMANENT SIGNAGE IS INSTALLED.
3. PERMANENT SIGNAGE TO BE INSTALLED ON GATE AFTER ARRAY HAS BEEN COMMISSIONED.

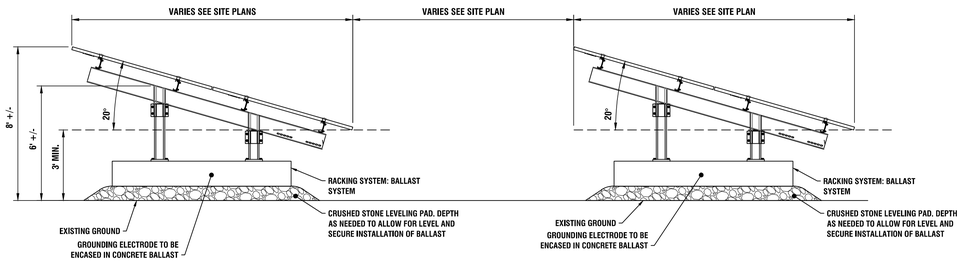
2 C502 TEMPORARY AND PERMANENT SIGNAGE

N.T.S.





PLAN VIEW



SIDE VIEW - BALLAST SYSTEM

1 C502 TYPICAL SITE LAYOUT

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Revisions

PROJECT NUMBER: 2201371
DRAWN BY: LMR
REVIEWED BY: JCT
ISSUED FOR: SITE PLAN APPLICATION
DATE: JUNE 2021
DRAWING NAME:

CONSTRUCTION DETAILS

DRAWING NUMBER:

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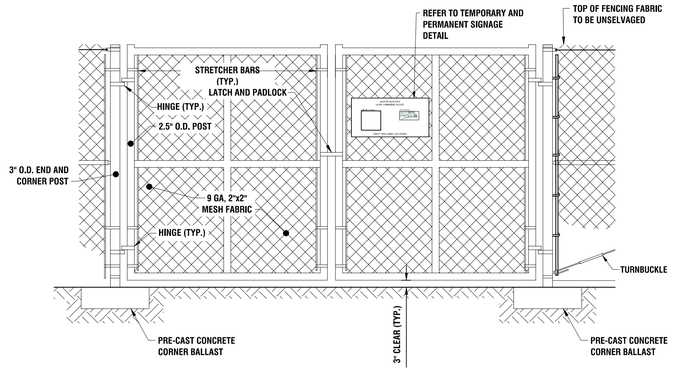
NOTES:

1. CONCRETE BALLAST SHOWN FOR ILLUSTRATIVE PURPOSES. CONCRETE BALLAST SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER.
2. CONTRACTOR SHALL NOT DISTURB SUBSOILS WHILE INSTALLING BALLASTING.

2 / C503 — 7' HIGH BALLASTED FENCE

N.T.S.



NOTES:

1. CONCRETE BALLAST SHOWN FOR ILLUSTRATIVE PURPOSES. CONCRETE BALLAST SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER.
2. CONTRACTOR SHALL NOT DISTURB SUBSOILS WHILE INSTALLING BALLASTING.

1 / C503 — 7' TALL 20' WIDE DOUBLE SWING GATE (BALLASTED)

N.T.S.

LANCASTER LANDFILL SOLAR
GUNNVILLE ROAD, LANCASTER, NY 14086

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CONSTRUCTION DETAILS

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Attachment 2

POST-CLOSURE INSPECTION REPORT
LANCASTER LANDFILL

I. SITE INFORMATION			
Site Name	Lancaster Landfill	Acreage	155
Site Address	Gunnville Road, Depew, New York	Cap Thickness	
Permitte Name / Address		Inspection Date	
Contact Person / Phone / Email		Inspection Completed By	
NYSDEC Facility ID	915068	Weather	

II. CAP OBSERVATIONS		YES/NO	Explanation
a)	Is vegetation in good condition?		
b)	Has vegetation been recently mowed?		
c)	Is stressed vegetation present?		
d)	Are there any depressions/ settling in the cap?		
e)	Is there any water ponding on the cap?		
f)	Is there any damage to the cap?		
g)	Has there been any activity on the cap other than post-closure monitoring?		
h)	Is cap in good condition overall?		
i)	General Notes / Recommendations		

III. OTHER OBSERVATIONS		YES/NO	Explanation
a)	Are monitoring wells present and in good condition?		
b)	Is fencing/ barriers adequate and in good condition?		
c)	Are signs present and in good condition?		
d)	Is gas management/ venting system components in good condition?		
e)	Is access road in good condition?		
f)	Any leachate observed?		
g)	Landfill odors observed?		
h)	Stressed vegetation observed off the cap?		
i)	Has there been any activity off the cap other than post-closure monitoring?		
j)	General Notes / Recommendations		

IV. Reporting Requirements			
a)	Has required groundwater monitoring been completed? Indicate date of most recent sampling.		
b)	Has a report been submitted to NYSDEC? Indicate most recent report date.		
c)	Any new features (access road, etc.) since last reporting period?		
d)	Is there any new damage to the cap from the previous reporting period?		
e)	Is there anything out of compliance for this reporting period?		
f)	General Notes / Recommendations		

V. Site Sketch (note locations of observations listed above)

Attachment 3

Creator: JR

Path: \\projects1\projectsAM\AC Power\2201371 - Lancaster Landfill Permitting, etc\Drawings\PCMMP\2020_11\Well Location Map.mxd

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AC Power

Post Closure Monitoring and Maintenance Plan

Lancaster Landfill Solar Array Lancaster, NY

N

0 400 800 Feet

Legend

- Study Area
- Monitoring Well - Surveyed
- Monitoring Well - Not Surveyed

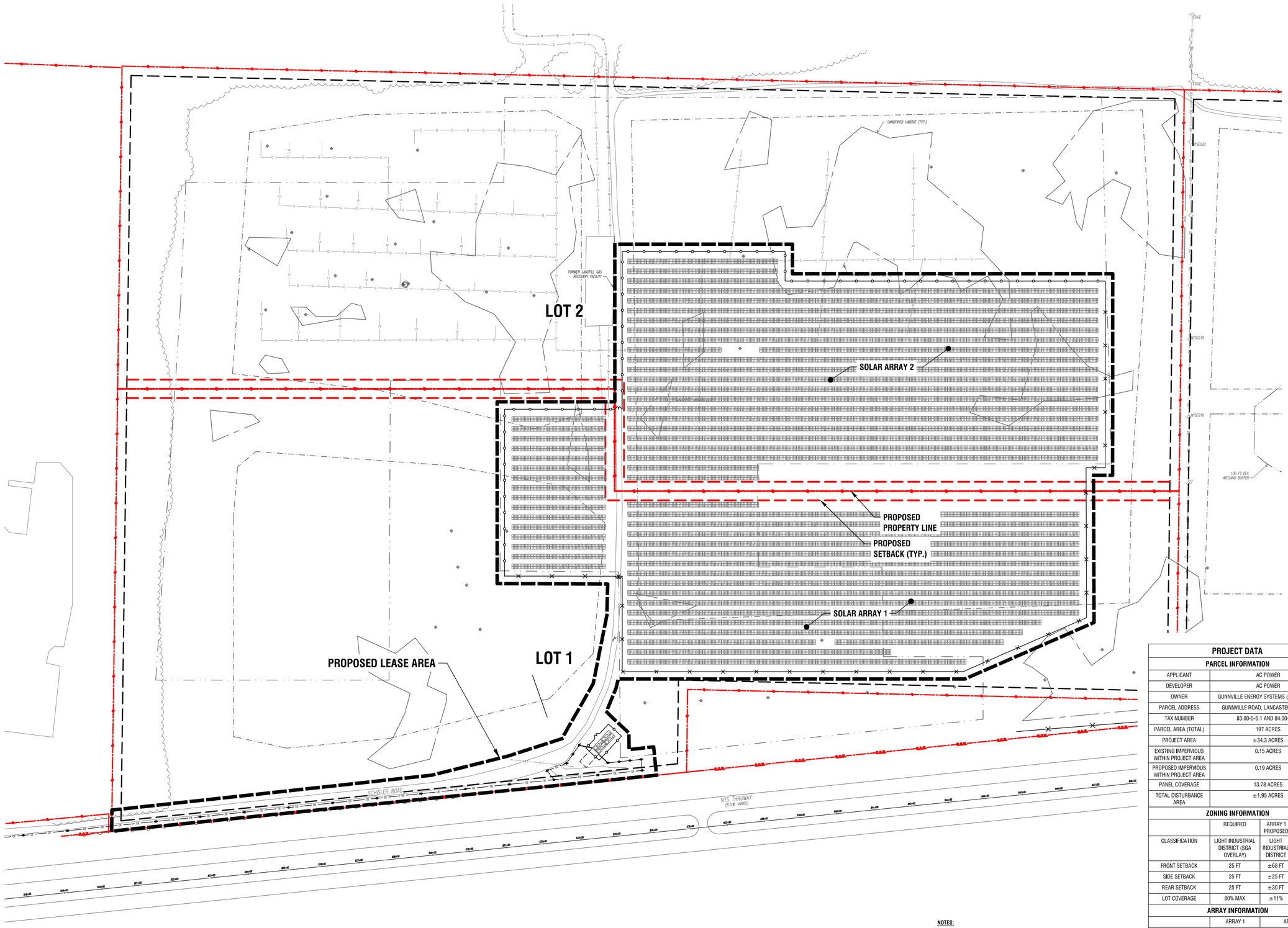
Sources: LaBella 2020; Maxar 2019.

Well Location Map

Figure 1

LaBella Project No: 2201371
Date: November 2020

Attachment 4



1 C003 LEASE AREA FIGURE

SCALE: 1" = 120'

N

NOTES:

1. **FIRE ACCESS TO THE ELECTRICAL EQUIPMENT PADS (LOCATED IN THE SOUTHERN PORTION OF LOT 1), IS PROVIDED BY THE EXISTING SHISLER ROAD AND GRAVEL AREA ADJACENT TO THE PROPOSED EQUIPMENT PADS. SHISLER ROAD VARIES IN WIDTH FROM 20' TO 40' FROM ITS ENTRANCE AT GUNNEVILLE ROAD, TO THE ELECTRICAL EQUIPMENT PADS.**
2. **ACCESS TO THE SOLAR ARRAYS IS PROVIDED BY SHISLER ROAD. NORTH OF THE PROPOSED ELECTRICAL EQUIPMENT PADS, SHISLER ROAD VARIES IN WIDTH FROM 16' TO 18'.**

PROJECT DATA			
PARCEL INFORMATION			
APPLICANT	AC POWER		
DEVELOPER	AC POWER		
OWNER	GUNNVILLE ENERGY SYSTEMS (LANDOWNER)		
PARCEL ADDRESS	GUNNVILLE ROAD, LANCASTER, NY 14086		
TAX NUMBER	83.00-5-6.1 AND 84.00-3-1.1		
PARCEL AREA (TOTAL)	197 ACRES		
PROJECT AREA	±34.3 ACRES		
EXISTING IMPERVIOUS WITHIN PROJECT AREA	0.15 ACRES		
PROPOSED IMPERVIOUS WITHIN PROJECT AREA	0.19 ACRES		
PANEL COVERAGE	13.78 ACRES		
TOTAL DISTURBANCE AREA	±1.95 ACRES		
ZONING INFORMATION			
	REQUIRED	ARRAY 1 PROPOSED	ARRAY 2 PROPOSED
CLASSIFICATION	LIGHT INDUSTRIAL DISTRICT (SGA OVERLAY)	LIGHT INDUSTRIAL DISTRICT	LIGHT INDUSTRIAL DISTRICT
FRONT SETBACK	25 FT	±68 FT	±30 FT
SIDE SETBACK	25 FT	±25 FT	±25 FT
REAR SETBACK	25 FT	±30 FT	±508 FT
LOT COVERAGE	80% MAX	±11%	±11%
ARRAY INFORMATION			
	ARRAY 1	ARRAY 2	
MODULE TYPE	ZNSHINE 525W		
ELECTRICAL INVERTER	CHINT CPS125	CHINT CPS125	
MODULE COUNT	12,636	11,570	
DC CAPACITY	6.63 MW dc	6.08 MW dc	
AC CAPACITY	5.00 MW ac	4.47 MW ac	
DC/AC RATIO	1.33	1.36	

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GUNNVILLE ROAD, LANCASTER, NY 14086

NO:	DATE:	DESCRIPTION:
2	6/25/2021	SITE GLARE SCREENING
1	4/7/2021	SITE LAYOUT REVISIONS
Revisions		

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LEASE AREA FIGURE

DRAWING NUMBER: