Ms. Rachel Savarie, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 11th Floor
Albany, NY 12233-7014

Arcadis of New York, Inc.
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Suite 300
Syracuse
New York 13202
Phone: 315 446 9120
Fax: 315 449 0017
www.arcadis.com

Date: June 28, 2023
Our Ref: 30159616
Subject: **Upland Restoration Plan – Revised**
NYSEG Plattsburgh (Saranac Street) Former MGP Site, Operable Unit No. 1
NYSDEC Site No. 5-10-007

Dear Ms. Savarie,

On behalf of NYSEG, please find enclosed the revised Upland Restoration Plan for Operable Unit No. 1 (OU-1) of the Plattsburgh (Saranac Street) Former Manufactured Gas Plant (MGP) site located in Plattsburgh, New York (the site).

NYSDEC provided comments to the Upland Restoration Plan in a letter to NYSEG dated May 3, 2023. The enclosed Upland Restoration Plan has been revised to address each NYSDEC comment. For ease of presentation, each NYSDEC comment from the May 3, 2023, letter is presented in below in bold, followed by NYSEG's response.

Comments and Responses

Comment 1, General: Please note the installation of the culvert into the bank will likely require coverage under a Water Quality Certification. If so, this should be specified in the work plan.

Section 3.6 was added to note that installation of the catch basin and culvert require coverage under a WQC and that NYSEG obtained a WQC modification in a letter from the NYSDEC dated June 23, 2022. The permit modification along with the original permit are included in Attachment F.

Comment 2, Sections 4.3: Please specify the listed maintenance activities will be proposed to the Department prior to implementation. Several of these activities may require additional permitting.

Under a lease agreement between NYSEG and the City of Plattsburgh, the City of Plattsburgh will be responsible for routine maintenance activities and for providing notification to the Department prior to any planned maintenance or repair activities that could require additional permitting. Refer to Section 4.3, which has been updated accordingly.

Ms. Rachel Savarie, P.E.
New York State Department of Environmental Conservation
June 28, 2023

Please contact Mark Castro at 203.233.1245 or mark_castro@avangrid.com with any questions or comments.

Sincerely,
Arcadis of New York, Inc.

Joe Bistrovich
Senior Environmental Engineer

Email: joe.bistrovich@arcadis.com
Direct Line: 315.671.9697
Mobile: 315.427.4585

CC. Mark Castro, PMP, NYSEG
Tracy Blazicek, CHMM, PMP, NYSEG
Mark Gravelding, Arcadis
David Cornell, Arcadis

Enclosures:
Upland Restoration Plan – Revised

New York State Electric & Gas Corporation

Upland Restoration Plan

Plattsburgh (Saranac Street) Former Manufactured Gas Plant Site
Operable Unit No. 1
Plattsburgh, New York
NYSDEC Site No. 5-10-007

June 2023

Upland Restoration Plan

Plattsburgh (Saranac Street) Former Manufactured Gas Plant Site
Operable Unit No. 1
Plattsburgh, New York
NYSDEC Site No. 5-10-007

June 2023

Prepared By:
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Prepared For:
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Orange
Connecticut 06477

Our Ref:
30172950

Contents

Attachments

Acronyms and Abbreviations

Arcadis	Arcadis of New York, Inc.
CCR	Construction Completion Report
cy	cubic yards
MGP	manufactured gas plant
NYSDEC	New York State Department of Environmental Conservation
NYSEG	New York State Electric & Gas Corporation
OU-1	Operable Unit No. 1
OU-2	Operable Unit No. 2
Restoration Plan	Upland Restoration Plan
Site	Operable Unit No. 1 of the Plattsburgh (Saranac Street) former manufactured gas plant site
TFS	temporary fabric structure
TWTS	Temporary Water Treatment System

1 Introduction

This Upland Restoration Plan (Restoration Plan) has been prepared by Arcadis of New York, Inc. (Arcadis), on behalf of the New York State Electric & Gas Corporation (NYSEG), to support the implementation of upland restoration activities in connection with Operable Unit No. 1 (OU-1) of the Plattsburgh (Saranac Street) former manufactured gas plant (MGP) site (the Site) located in Plattsburgh, New York (Site No. 5-10-007).

In general, this Restoration Plan specifies the activities required to regrade and permanently stabilize upland areas of the Site utilized for construction staging, storage, material handling/processing, and water treatment during Saranac River remediation and riverbed and bank restoration activities. This document is organized as follows:

- **Section 2 – Existing Conditions:**
  - Describes existing site conditions and interim measures that will be implemented to stabilize the Site and manage surface water prior to implementation of this Restoration Plan.
- **Section 3 – Upland Restoration:**
  - Presents details related to restoration and permanent stabilization of the Site.
- **Section 4 – Monitoring and Maintenance:**
  - Presents post-construction monitoring and maintenance methods and criteria.

2 Existing Conditions

This section describes existing site conditions as well as interim measures to be implemented to stabilize ground conditions and manage surface water prior to the execution of this Restoration Plan.

2.1 Remaining Contamination

Arcadis on behalf of NYSEG recently prepared and submitted to the New York State Department of Environmental Conservation (NYSDEC) the OU-1 Construction Completion Report (CCR) (Arcadis 2023a). As listed in the OU-1 CCR Section 4.7.1, residual MGP-related impacts may remain at the following areas of the Site:

- Landside Remediation Area – Residually-impacted and thermally-treated soils were used as backfill and placed in the lower portions of soil excavation areas within the stabilized soil barrier limits. These materials were covered with a visual demarcation layer and clean imported fill.
- Former MGP Area – Subsurface soils (i.e., greater than 4 feet below ground surface) may contain MGP-related impacts.
- Purifier Waste Removal Area – Inaccessible locations beneath Saranac and Caroline Streets may contain waste.

Based on the anticipated future commercial/passive recreational use of the OU-1 site and in accordance with the NYSDEC's January 14, 2022 OU-1 Cover System Specifications letter to NYSEG (Attachment A), the required soil cover for commercial/passive recreational use must be at least 1 foot with the top 1 foot of exposed soils meeting the applicable soil cleanup objectives in Title 6 of the New York Codes, Rules, and Regulations Part 375-6.8(b).

2.2 Previous Work and Ongoing Activities

A detailed description of remedial activities completed at the Site is provided in the OU-1 CCR, Section 4.4.7 (Arcadis 2023a). During spring 2023, additional restoration activities at the Site will include:

- Demolishing existing infrastructure, including the temporary fabric structure (TFS), concrete and asphalt pads, and water treatment infrastructure used during remedial construction activities;
- Processing (i.e., crushing) concrete and cobble used during prior Saranac River remediation activities; and
- Constructing interim surface water management controls, including diversion berms and channels to direct water to a discharge point immediately east of the Durkee Street Pedestrian Bridge. Refer to the Drainage Modification – Proposed Conditions drawing (dated 01/06/2023) provided by Parsons (Attachment B) for additional information regarding interim Site stabilization and surface water control measures.

The activities described in this Restoration Plan are designed to complement the interim surface water management activities to be performed concurrently with Site restoration.

3 Upland Restoration

This section presents details related to permanent stabilization of the OU-1 Site in accordance with the anticipated future commercial/passive recreational use. Additional information regarding the implementation of this Restoration Plan is presented on the Restoration Plan Design Drawings (Design Drawings, Attachment C).

3.1 Site Preparation

Prior to initiating restoration activities, appropriate sediment and erosion control measures (e.g., fiber roll, silt fence, hay bales) will be installed as illustrated on Design Drawing 3B (Attachment C). Sediment and erosion control details are presented on Design Drawing G-501 in the Riverbed and Bank Restoration Plan (Arcadis 2019). Temporary sediment and erosion controls may be adjusted to account for changing field conditions and will be regularly inspected and maintained in accordance with the New York State Standards and Specifications for Erosion and Sediment Control (NYSDEC 2016).

3.2 Air Monitoring

The contractor will conduct volatile organic compound and particulate monitoring in accordance with the New York State Department of Health Generic Community Air Monitoring Plan (Attachment D). Volatile organic compounds and particulates will be monitored continuously during intrusive and/or potential dust-generating activities (e.g., installation of erosion and sediment control measures, material handling activities, subgrade preparation, etc.). Particulate monitoring will be performed during installation/grading of the final site cover (i.e., using clean imported fill).

3.3 Subgrade Preparation

Following site preparation tasks (e.g., select demolition, sediment and erosion control installation, etc.), the Site will be regraded to promote surface water drainage and long-term stability. As shown on Design Drawing 4 (Attachment C), much of the Site will require fill to achieve the design subgrade contours. However, some cutting will be required at existing high points, drainage structure construction, and adjacent to the soil cover perimeter to maintain a smooth transition between existing grade and the final 1-foot thick, clean fill cover. Subgrade fill will primarily consist of the following:

- Concrete Blocks – Concrete blocks, formerly utilized for the OU-1 and Operable Unit No. 2 (OU-2) river diversion system will be processed to an approximate size of 6-inch minus via excavator mounted concrete breaking and crushing equipment. During the crushing and processing of the concrete, steel rebar will be removed and disposed of/recycled at an appropriate offsite facility. Approximately 4,500 cubic yards (cy) of concrete will be processed and used as subgrade fill below the demarcation layer.
- TFS Concrete Base – The existing 6-inch concrete base that forms the floor of the TFS will be demolished, removed, and stockpiled prior to reuse. Approximately 500 cy of concrete will be available for reuse and will be used as subgrade fill below the demarcation layer.
- TFS Subbase Material – The original asphalt floor located directly below the surficial concrete layer will be removed and disposed of at an offsite facility. Materials from below the asphalt will be re-graded as necessary and used as subgrade fill below the demarcation layer.

- Existing Site Cover Materials – Existing site cover materials will be regraded to construct the subgrade by removing high points, minor cuts at the perimeter of the soil cover and installation of the perimeter drainage swale. The existing perimeter drainage feature constructed as a temporary measure at the end of the 2022 season, adjacent to the Saranac River Trail, will be regraded and a new outlet swale will be constructed. Final grading of this feature will require the removal and relocation of approximately 1,500 cy of existing Site soil.
- AquaBlok – Excess AquaBlok material, not used during OU-2 remedial activities will be placed as subgrade fill below the demarcation layer. Approximately 200 cy of AquaBlok material is stockpiled on-site.
- Previously Imported Clean Materials:
  - Imported Soils – Soils previously approved by the NYSDEC as clean imported materials utilized for temporary restoration of the upper riverbank during OU-1 In-River Remediation Phases 1-8. Approximately 2-feet of this temporary cover consisting of clean cobble, bank run soil and topsoil were removed during the final restoration of the OU-1 riverbanks in 2021 and 2022. Approximately 2,000 cy of this material is currently stockpiled onsite and will be used as subgrade fill below the demarcation layer.
  - Native River Rock (i.e., River Cobble) – Cobble excavated from the river during the 2022 OU-2 Phase 3 remedial construction activities was separated (from sediment material) via mechanical screen, washed, and stockpiled for reuse. Approximately 1,500 cy is currently stockpiled on-site and will be used as cover/fill at the new outlet structure with remaining materials resized, as necessary, and used as subgrade fill below the demarcation layer.
  - Imported Bank Run – Bank run material, previously approved for use by the NYSDEC, was imported during 2020 OU-2 Phase 1 activities to construct the containment berms around the Temporary Water Treatment System (TWTS). Approximately 3,500 cy of bank run material is currently contained in the TWTS berms and will be regraded and used as subgrade fill below the demarcation layer.
  - Drainage stone – Imported drainage stone used as the TWTS containment pad base will be removed, stockpiled, and sampled. The existing high-density polyethylene liner currently in place below the TWTS pad will be removed and disposed at an off-site facility.

The subgrade contours shown on Design Drawing 4 assume the incorporation of approximately 10,200 cy of reuse material. To avoid settling, subgrade fill will be placed in uniform loose lifts not to exceed 12 inches and compacted to a firm, non-yielding condition. Reuse material identified for use as subgrade fill (i.e., placed below the demarcation layer) will be appropriately sized, will be placed in accordance with the Specifications provided on Design Drawing 2 (Attachment C) and will meet NYSDEC site-specific analytical requirements provided in the Sampling Plan (Attachment E).

The subgrade topography presented in this Restoration Plan is intended to blend with the interim surface water management activities provided by Parsons (Attachment B). Upon establishment of subgrade topography, a visual demarcation layer (i.e., colored geotextile) will be installed.

The Restoration Engineer will be responsible for conducting analytical and geotechnical testing, as necessary, to verify that the proposed materials meet project specifications. Re-use material analytical results will be documented in the forthcoming OU-1 Restoration CCR.

3.4 Cover Construction

Following subgrade preparation and geotextile demarcation layer placement, 1-foot of clean fill will be placed overtop the geotextile demarcation layer to achieve the Final Grade contours shown on Design Drawing 5

(Attachment C) and will act as the final soil cover for the Site. Imported clean fill material will be placed in accordance with the Specifications provided on Design Drawing 2 (Attachment C) and will meet the applicable soil cleanup objectives for commercial use in accordance with Title 6 of the New York Codes, Rules, and Regulations Part 375 and the guidance values provided in the NYSDEC's Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) (NYSDEC 2022). The Restoration Engineer will be responsible for conducting analytical and agronomic testing, as necessary, to verify that the proposed materials meet project specifications. The Restoration Engineer will provide the NYSDEC with imported material analytical testing results and request approval using the NYSDEC's "Request to Import/Reuse Fill or Soil," form.

The clean fill layer will include a minimum 6 inches of topsoil that will be vegetated for long-term stability. Additionally, a gravel driveway and parking area, consisting of a minimum 12 inches of gravel will be installed and connected to the existing cul-de-sac on Saranac Street.

Along the northern limit of grading, final grade will tie into a diversion berm designed by Parsons (Attachment B) and will be constructed concurrently with this Restoration Plan. This tie-in will create the continuation of a drainage channel to be constructed on the western side of the Site. Along the southern boundary, final grade will taper into existing grade adjacent to an existing drainage channel that will convey surface water flow to a new riprap channel on the east side of the Site (Design Drawing 5, Attachment C).

Record drawings showing as built drainage structures and final site cover will be included in the forthcoming OU-1 Restoration CCR.

3.5 Surface Water Management

Final Grade will generally drain, via sheet flow, towards perimeter drainage channels to the north at an average slope of 2%. To align with the interim surface water management design by Parsons (Attachment B), channels will convey stormwater runoff to a downstream discharge point immediately east of the Durkee Street Pedestrian Bridge. The western perimeter channel will be lined with riprap at the steeper, upstream section and vegetated at the lower downstream section. The eastern perimeter channel will be lined entirely with riprap. Both channels are designed to safely convey runoff from the 24-hour, 25-year storm event considering a minimum factor of safety of 1.2 against lining failure and a minimum channel freeboard of 1 foot.

The downstream discharge point will consist of a catch basin and culvert. Given the existing site grades, excavation is anticipated to be minimal and will be limited to the extent required for catch basin/culvert installation. A new demarcation layer will be installed at the base of the excavation. Subsurface engineering controls installed during remediation (i.e., stabilized soil barrier, dense non-aqueous phase liquid observation and recovery system, dense non-aqueous phase liquid migration barrier) will not be impacted and will remain intact and functioning below the culvert structure. Excavated soils will be direct loaded to trucks and transported off-site for disposal. Fill materials above the new demarcation layer will consist of clean imported clean fill (i.e., topsoil, gravel) and on-site reuse material (i.e., cobble).

3.6 Permitting

Installation of the catch basin and culvert, for the purpose of surface water discharge, requires coverage under a NYSDEC water quality certification (WQC). NYSEG has an existing WQC permit (DEC Permit # 5-0913-00009/00009) that expires on October 1, 2024. NYSEG requested and received a modification to the existing

NYSDEC WQC in a letter dated June 23, 2023 (included as Attachment F). The surface water management structures (i.e., catch basin and culvert) will be installed and maintained in accordance with applicable permits.

3.7 Vegetation Establishment

Site cover areas and vegetated swale areas will be stabilized with permanent vegetation (i.e., seeded) in accordance with the specifications (Design Drawing 2, Attachment C). The contractor responsible for implementation of this Restoration Plan will establish a minimum herbaceous ground cover in accordance with the Riverbed and Bank Restoration Plan (Arcadis 2019). If herbaceous cover areas fail to meet criteria, the contractor will be required to re-seed areas as necessary (per original seeding requirements) and continue monitoring in the subsequent year. If by the end of monitoring Year 3, herbaceous ground cover meets established criteria, no further monitoring or maintenance will be performed.

4 Monitoring and Maintenance

Post-construction monitoring and maintenance activities will be conducted in accordance with the Riverbed and Bank Restoration Plan (Arcadis 2019), Section 4 and the Site Management Plan (Arcadis 2023b). Post-construction monitoring and maintenance activities specific to the soil cover and stormwater drainage structures are included in the subsections below.

If maintenance issues persist despite monitoring and maintenance actions listed below, an evaluation by a Professional Engineer may be completed to determine the potential for modifications.

4.1 Erosion

The Final Grade Site Plan (Design Drawing 5, Attachment C) is designed to reduce the potential for erosive concentrated flows across vegetated lawn areas. However, unplanned events may occur that lead to degradation of the soil cover by surface water. Under normal conditions, soil cover depth should be consistent with this Restoration Plan (i.e., 12 inches minimum) and in good condition with no evidence of erosion, settlement, or soil instability.

Erosion can be identified during field inspection by observance of rills, gullies, lack of vegetation, and, in extreme cases, observable demarcation geotextile. Maintenance to correct erosion issues may include:

- Evaluation of potential causes and implementation of upgradient controls (e.g., surface water diversion) as necessary; and
- Restoration of soil cover to as-built condition and re-seed, installing erosion control blanket, as necessary.

4.2 Channels

Concentrated surface water flow will be managed via vegetated and rip rap-lined channels. Under normal conditions, channel cross-sections should be uniform with no evidence of excessive sediment accumulation, erosion (within or along edges), or displacement of lining material (e.g., rip rap, erosion control blanket). Maintenance to correct channel degradation issues may include:

- Remove excessive sediment/debris.
- In rip rap-lined drainages, restore stone to design geometry.
- In vegetated channels, repair or replace underlying cover soil and reseed.
    - If erosion control blanket is undamaged, re-lay and re-anchor.
    - Replace damaged sections of erosion control blanket in accordance with manufacturer recommendations.
- Consider installation of check dams to control channel flow velocity.

4.3 Catch Basin and Culvert

The catch basin will be inspected for settlement, erosion at the structure inlet, and excessive material build up (e.g., sediment, trash, debris) during Site Management Plan (Arcadis 2023b) activities. The outlet pipe to the Saranac River will also be inspected for blockages and damage. Beyond the pipe outlet, the cobble riverbank

should be inspected for signs of degradation. Maintenance activities to ensure proper function of the catch basin and culvert may include:

- Removing sediment, trash, and debris from the catch basin inlet grate and sump as necessary to maintain drainage capacity;
- Placing additional riprap around the catch basin to inhibit erosion;
- Performing grading adjustments around the structure or the structure rim (e.g., add/remove risers) to correct settlement-related issues;
- Clearing vegetation, debris, and/or other blockages from the culvert pipe outlet; and
- If erosion is observed beyond the end of the culvert pipe, evaluating outlet conditions and determining the need for more robust riverbank protection (e.g., larger bank protection rock, articulated concrete mats).

Following completion of site restoration activities NYSEG plans to lease the site to the City of Plattsburgh for use as a public space. As part of the lease agreement the City of Plattsburgh will be responsible for routine maintenance of the catch basin and culvert and will provide notification to the Department of any planned maintenance or repair activities that could require additional permitting.

5 References

Arcadis. 2019. Riverbed and Bank Restoration Plan. Plattsburgh (Saranac Street) Former Manufactured Gas Plant Site, Operable Unit No. 1. Clinton County, Plattsburgh, NY. November.

Arcadis. 2023a. Construction Completion Report. Plattsburgh (Saranac Street) Former Manufactured Gas Plant Site, Operable Unit No. 1. Clinton County, Plattsburgh, NY. January.

Arcadis. 2023b. Site Management Plan. Plattsburgh (Saranac Street) Former Manufactured Gas Plant Site, Operable Unit No. 1. Clinton County, Plattsburgh, NY. March.

NYSDEC. 2016. New York State Standards and Specifications for Erosion and Sediment Control. New York State Department of Environmental Conservation. July.

NYSDEC. 2022. Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS). New York State Department of Environmental Conservation. November.

Attachment A

NYSDEC January 14, 2022 Letter to NYSEG

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau C
625 Broadway, 12th Floor, Albany, NY 12233-7014
P: (518) 402-9662 I F: (518) 402-9679
www.dec.ny.gov

January 14, 2022

Transmitted via E-mail ONLY

Tracy L. Blazicek
NYSEG
PO Box 5224
Binghamton, NY 13902
tblazicek@nyseg.com

RE: OU1 Cover System Specifications
NYSEG Plattsburgh (Saranac Street) Former MGP Site, No. 510007
City of Plattsburgh, Clinton County

Dear Mr. Blazicek:

The New York State Department of Environmental Conservation (NYSDEC) in consultation with the New York State Department of Health (NYSDOH), has received your November 23, 2021 email requesting a change to the Record of Decision (ROD) soil cover thickness requirement for Operable Unit 1 (OU1) at the above referenced site. This letter hereby documents NYSDEC's acceptance of NYSEG's request that a 1-foot soil cover over OU1 is acceptable and protective of human health and the environment per the current or reasonably anticipated future use of OU1 at the site.

The March 2004 ROD for OU1 requires, "imposition of an institutional control in the form of an environmental easement that will …. limit the use and development of the property to commercial, industrial or recreational uses…" In addition, the ROD requires, "…placement of topsoil and seeding to ensure a minimum of 2 feet of soil cover meeting TAGM 4046 limits."

The Saranac River Trail (SRT) in the City of Plattsburgh was recently completed, and a portion runs along the west side of OU1 adjacent to the Saranac River. Hiking/biking trails are considered by NYSDEC to be passive recreational use, as are all recreational activities which place minimal stress on the site and its resources. As per DER-10 1.12 (b)(3)(iv), passive recreational use is considered part of the commercial use category. With that, the NYSDEC also accepted the City of Plattsburgh's change of use submittal for construction of the SRT via email on November 8, 2021. Therefore, it is agreed that current and reasonably planned future use of OU1 at the site is commercial/passive recreational.

DER-10 4.1 (f)(2) requires that the depth of the exposed surface soil and hence the required soil cover of a commercial or industrial use site to be at least 1 foot. And 1 foot of the exposed soils must meet the applicable Part 375-6.8(b) Soil Cleanup Objectives (SCOs).

As you know, the March 2004 ROD for OU1 at Plattsburgh Saranac Street MGP predates the issuance of May 2010 DER-10 *Technical Guidance for Site Investigation and Remediation*. It is reasonable to accept current NYSDEC policy and procedures such as DER-10 to supersede outdated and/or rescinded NYSDEC policy and procedures such as TAGM 4046. Therefore, it is acceptable to NYSDEC to allow exposed soils as part of a Site Management Plan cover system meeting the applicable Part 375 SCOs to be 1 foot in depth across the commercial/passive recreational use OU1 at the Plattsburgh Saranac Street Former MGP site.

Please place this letter in your files and in the project repository(s) alongside the 2004 ROD as a record that 1 foot soil cover over OU1 at the site is acceptable to NYSDEC and NYSDOH. The 2004 ROD for OU1 will not otherwise be amended. Thank you, and please do not hesitate to contact me at 518-402-9662 or via email at kiera.thompson@dec.ny.gov with any questions or concerns in regard to this letter.

Sincerely,

Kiera Thompson, P.G.
Project Manager
Bureau C, Section B
Division of Environmental Remediation

ec: Tracy Blazicek (tlblazicek@nyseg.com)
Jason Golbuski (jason.golbuski@arcadis.com)
Wendy Kuehner (wendy.kuehner@health.ny.gov)
Justin Deming (justin.deming@health.ny.gov)
Kevin Carpenter (kevin.carpenter@dec.ny.gov)

Attachment B

Interim Surface Water Management Plan (Parsons)

LEGEND:

- 320 — FINISHED MAJOR ELEVATION CONTOUR
- 319 — FINISHED MINOR ELEVATION CONTOUR
- x — RELOCATED FENCE
- GRAVEL PAVEMENT

40 20 0 40 80

SCALE: 1" = 40'

DRAFT

NOT FOR CONSTRUCTION

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APP'D
A	ISSUED FOR COMMENT		RR	MBF	

DRAWN BY	RR	DATE	12/15/22
CHECKED BY	MBF	DATE	01/06/23
APPROVED BY		DATE	
PROJECT MGR.		DATE	

SEAL

PARSONS

OFFICE
301 PLAINFIELD ROAD
SYRACUSE, NY 13212
(315) 451-9560

JOB 452174

WBS 10100

PROJECT TITLE
PLATTSBURGH (SARANAC STREET)
FORMER MGP SITE OPERABLE UNIT 2

DRAINAGE MODIFICATION

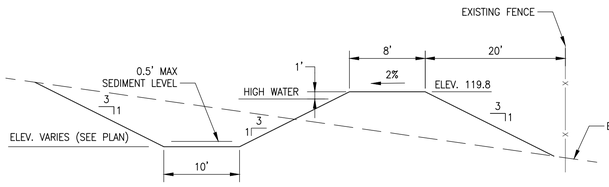
DRAWING TITLE
PROPOSED CONDITIONS

SCALE 1" = 40'

DRAWING NO. C-002

REV. A

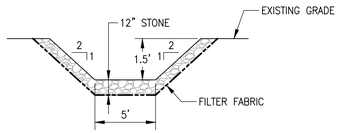
FILE NAME: S:\IBERDROLA_AVANGRID\452174 PLATTSBURGH OU-2 CM\11 CAD\DRAINAGE MODIFICATION\ENGR\CAD\CIVIL\C-002.DWG
PLOT DATE: 1/9/2023 1:07 PM PLOTTED BY: RABUFFETTI, RICH [US-US]



NOTES:

1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT.
2. THE FILL MATERIAL FDR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL. RELATIVELY PERVIOUS MATERIALS SUCH AS SAND OR GRAVEL (USC GW, GP, SW, SP) SHALL NOT BE PLACED IN EMBANKMENT.
3. AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL.
4. FILL MATERIAL SHALL BE PLACED IN SIX TO EIGHT INCH THICK CONTINUOUS LAYERS OVER THE ENTIRE LENGTH OF FILL. COMPACTION SHALL BE OBTAINED BY ROUTING AND HAULING THE CONSTRUCTION EQUIPMENT OVER THE FILL SO THAT THE ENTIRE SURFACE OF EACH LAYER OF FILL IS TRAVERSED BY AT LEAST ONE WHEEL OR TREAD TRACK OF EQUIPMENT OR BY USE OF A COMPACTOR.
5. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TD ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TD 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND STABILIZED.
6. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
7. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED.
8. STABILIZE THE EMBANKMENT WITHIN 3 DAYS OF CONSTRUCTION WITH VEGETATIVE TREATMENT:
   A. SPRING, SUMMER, EARLY FALL: SEED AREA WITH PERENNIAL RYEGRASS AT 1 LB/ 1000 SF
   B. LATE FALL OR EARLY WINTER: SEED CERTIFIED "AROOSTOOK WINTER RYE AT 2.5 LBS/ 1000SF
   C. MULCH WITH HAY OR STRAW AT 90 LBS/ 1000 SF

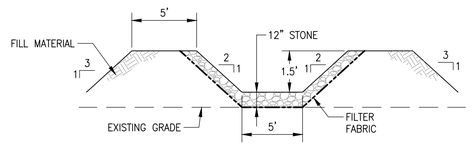
1 BERM DETAIL
C-002 N.T.S



NOTES:

1. STONE SIZE: D50 =8"
2. FILTER FABRIC IS MIRAFI 140N OR APPROVED EQUIVALENT. PLACE FILTER FABRIC IMMEDIATELY AFTER FOUNDATION IS PREPARED AND DIRECTLY ON FOUNDATION.
3. OVERLAP FABRIC EDGES BY AT LEAST 2 FT. AND SPACE ANCHOR PINS EVERY 3 FT. ALONG OVERLAP. BURY UPPER AND LOWER ENDS A MINIMUM OF 12" BELOW GROUND.

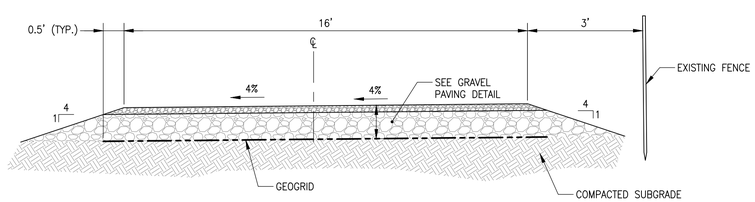
3 RIPRAP CHANNEL 1
C-002 N.T.S



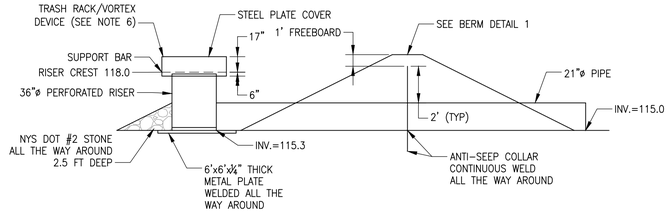
NOTES:

1. STONE SIZE: D50 =8"
2. FILTER FABRIC IS MIRAFI 140N OR APPROVED EQUIVALENT. PLACE FILTER FABRIC IMMEDIATELY AFTER FOUNDATION IS PREPARED AND DIRECTLY ON FOUNDATION.
3. OVERLAP FABRIC EDGES BY AT LEAST 2 FT. AND SPACE ANCHOR PINS EVERY 3 FT. ALONG OVERLAP. BURY UPPER AND LOWER ENDS A MINIMUM OF 12" BELOW GROUND.

4 RIPRAP CHANNEL 2
C-002 N.T.S



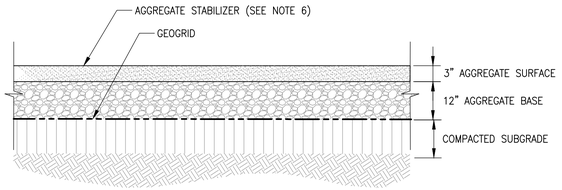
5 GRAVEL ROAD SECTION
C-002 N.T.S



NOTES:

1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. ALL PIPE CONNECTIONS SHALL BE WATERTIGHT.
3. THE TOP 2/3 OF THE RISER SHALL BE PERFORATED WITH ONE (1) INCH DIAMETER HOLES OR SLITS SPACED SIX (6) INCHES VERTICALLY AND HORIZONTALLY AND PLACED IN THE CONCAVE PORTION OF THE PIPE. NO HOLES WILL BE ALLOWED WITHIN SIX (6) INCHES OF THE HORIZONTAL BARREL.
4. THE RISER SHALL BE WRAPPED WITH 1/4 TO 1/2 INCH HARDWARE CLOTH WIRE THEN WRAPPED WITH FILTER CLOTH (HAVING AN EQUIVALENT SIEVE SIZE OF 40-80). THE FILTER CLOTH SHALL EXTEND SIX (6) INCHES ABOVE THE HIGHEST HOLE AND SIX (6) INCHES BELOW THE LOWEST HOLE. WHERE ENDS OF THE FILTER CLOTH COME TOGETHER, THEY SHALL BE OVER-LAPPED, FOLDED AND STAPLED TO PREVENT BYPASS.
5. STRAPS OR CONNECTING BANDS SHALL BE USED TO HOLD THE FILTER CLOTH AND WIRE FABRIC IN PLACE. THEY SHALL BE PLACED AT THE TOP AND BOTTOM OF THE CLOTH.
6. TRASH RACK/VORTEX DEVICE SHALL BE 54" DIAMETER CMP WITH #8 REBAR SUPPORT WELDED OR BOLTED TO RISER. USE 12 GAGE STEEL PLATE COVER WITH 1" PRESSURE RELIEF HOLES SPACED 6" AROUND EDGE AND WELDED TO DEVICE.
7. THE BARREL AND RISER SHALL BE PLACED ON A FIRM SMOOTH FOUNDATION OF IMPERVIOUS SOIL. PERVIOUS MATERIALS SUCH AS SAND, GRAVEL OR CRUSHED STONE SHALL NOT BE USED AS BACKFILL AROUND PIPE OR ANTI-SEEP COLLAR.

2 PIPE OUTLET DETAIL
C-002 N.T.S



NOTES:

1. CLEAR AND LEVEL EXISTING SUBGRADE PER PLAN.
2. COMPACT IN-PLACE EXISTING SUBGRADE TO 95% MAXIMUM DENSITY PER STANDARD PROCTOR (ASTM D698).
3. INSTALL TENSAR NX850 GEOGRID PER MANUFACTURERS GUIDELINES.
4. PROVIDE AND PLACE AGGREGATE BASE MATERIAL PER THE FOLLOWING:
   4.2. PLASTICITY INDEX: 0 - 6
   4.3. GRADATION:

	SIEVE	% PASS
4.3.2.	2 IN	100
4.3.3.	1.5 IN	85-100
4.3.4.	NO. 4	30-50
4.3.5.	NO. 40	5-20
4.3.6.	NO. 200	0-5

5. PROVIDE AND PLACE AGGREGATE SURFACE MATERIAL PER THE FOLLOWING:
   5.1. LIQUID LIMIT: <35
   5.2. PLASTICITY INDEX: 4 -9
   5.3. GRADATION:

	SIEVE	% PASS
5.3.2.	1 IN	100
5.3.3.	3/4 IN	85-100
5.3.4.	NO. 4	50-75
5.3.5.	NO. 40	15-35
5.3.6.	NO. 200	8-15

6. APPLY CHLORIDE STABILIZER. USE 83-87% FLAKE CALCIUM CHLORIDE. APPLY 1-1/2 LBS. PER SQUARE YARD.
7. COMPACT AGGREGATE SURFACE TO 95% MAXIMUM DENSITY PER STANDARD PROCTOR (ASTM D698).

6 GRAVEL PAVING DETAIL
C-002 N.T.S

DRAFT
NOT FOR CONSTRUCTION

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPV'D
A	ISSUED FOR COMMENT		RR	MBF	

DRAWN BY	RR
DATE	12/14/22
CHECKED BY	MBF
DATE	01/06/23
APPROVED BY	
DATE	
PROJECT MGR.	
DATE	
SEAL	

PARSONS
OFFICE
301 PLAINFIELD ROAD
SYRACUSE, NY 13212
(315) 451-9560

JOB 452174
WBS 01000

PROJECT TITLE
PLATTSBURGH (SARANAC STREET)
FORMER MGP SITE OPERABLE UNIT 2

DRAINAGE MODIFICATION

DRAWING TITLE
DETAILS SHEET

SCALE N.T.S.

DRAWING NO. D-001 REV. A

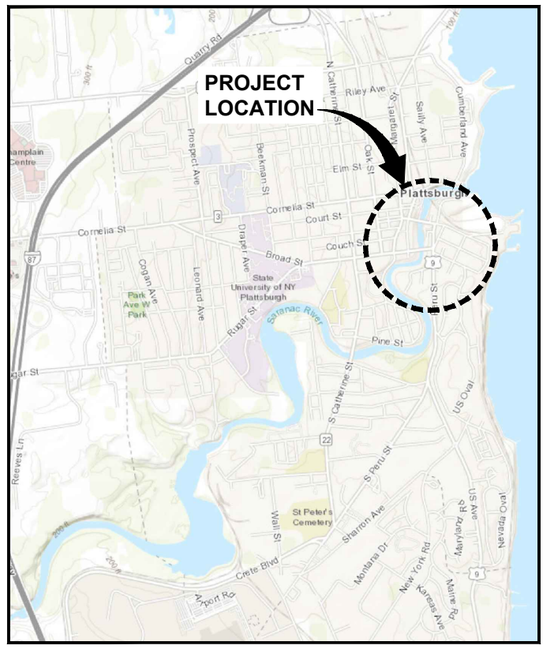
FILE NAME: S:\BERGROUA_AVANGRID\452174 PLATTSBURGH DU-2 CM\11 CAD\DRAINAGE MODIFICATION\ENGR\CAD\CIVIL\D-001.DWG
PLOT DATE: 1/9/2023 4:37 PM PLOTTED BY: RABUFFETTI, RICH [US-US]

Attachment C

OU-1 Upland Site Restoration Plan Design Drawings

DESIGN DRAWINGS

PLATTSBURGH (SARANAC STREET)
FORMER MGP SITE OPERABLE UNIT 1
UPLAND SITE RESTORATION PLAN



DATE ISSUED
APRIL 2023

NYSEG
PLATTSBURGH, NEW YORK

NYSDEC SITE NUMBER 5-10-007

KEY CONTACTS:

OWNER:
NYSEG
JAMES A CARRIGG CENTER
18 LINK DRIVE, PO BOX 5224
BINGHAMTON, NEW YORK 13902-5224
TELEPHONE: 607.762.8839
CONTACT: TRACY BLAZICEK

DESIGN ENGINEER:
ARCADIS OF NEW YORK, INC.
ONE LINCOLN CENTER
110 W FAYETTE STREET #300
SYRACUSE, NY 13202
TELEPHONE: 315-432-1529

INDEX TO DRAWINGS

ARCADIS

ARCADIS OF NEW YORK, INC.

GENERAL NOTES

GENERAL NOTES:

1. THE TERM "OWNER" SHALL REFER TO NYSEG, AVANGRID, AND/OR A DESIGNATED REPRESENTATIVE. THE TERM "DESIGN ENGINEER" SHALL REFER TO ARCADIS OF NEW YORK, INC. (ARCADIS) AND/OR A DESIGNATED REPRESENTATIVE. THE TERM "OVERSIGHT ENGINEER" SHALL REFER TO PARSONS CORPORATION AND/OR A DESIGNATED REPRESENTATIVE. THE TERM "CONTRACTOR" SHALL REFER TO THE COMPANY OR COMPANIES CONTRACTED TO IMPLEMENT THE DESIGN.
2. THE TERM "SITE" REFERS TO UPLAND AREAS OF THE SARANAC STREET FORMER MGP SITE, OPERABLE UNIT 1 (OU-1) LOCATED IN PLATTSBURGH, NY.
3. THE CONTRACTOR SHALL PROMPTLY, AFTER DISCOVERING, GIVE WRITTEN AND ORAL NOTICE TO THE ENGINEER OF DELAYS IN PROJECT SCHEDULE DUE TO EQUIPMENT MALFUNCTION, WEATHER, OR GENERAL FAILURE TO MEET PRODUCTION STANDARDS.
4. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF ANY ISSUED PERMITS AND ANY APPLICABLE STATE AND FEDERAL LAWS AND REGULATIONS. WORK HOURS ARE ANTICIPATED TO BE BETWEEN 7 A.M. AND 6 P.M. MONDAY THROUGH FRIDAY. FINAL WORK HOURS AND/OR TIME OF YEAR RESTRICTIONS WILL BE DICTATED BY ANY APPLICABLE PERMITS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF WORK IN PROGRESS. NO ADDITIONAL PAYMENTS WILL BE MADE FOR REPAIR OR REPLACEMENT OF PARTIALLY COMPLETED WORK DUE TO THE CONTRACTOR'S FAILURE TO ADEQUATELY PROTECT THE WORK.
6. IN THE EVENT AN UNSAFE CONDITION IS DETECTED BY THE CONTRACTOR, OWNER, DESIGN ENGINEER, OVERSIGHT ENGINEER, AND/OR REGULATORY OFFICIAL, ALL WORK NEAR THE UNSAFE CONDITION SHALL IMMEDIATELY STOP AND SHALL BE REPORTED TO THE OWNER AND OVERSIGHT ENGINEER IMMEDIATELY. THE UNSAFE CONDITION SHALL BE RESOLVED PRIOR TO RESTART OF WORK.
7. EXISTING SITE FEATURES THAT ARE DAMAGED OR DESTROYED (OTHER THAN THOSE FEATURES SPECIFICALLY INDICATED ON THESE DRAWINGS TO BE DEMOLISHED, REMOVED, OR ALTERED) BY THE CONTRACTOR DURING THE PROJECT SHALL BE REPORTED TO THE OWNER AND OVERSIGHT ENGINEER IMMEDIATELY AND REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST. THIS INCLUDES, BUT IS NOT LIMITED TO, ACCESS ROADS, FENCES, CULVERTS, ROADWAYS, AND OTHER EXISTING SITE INFRASTRUCTURE AS WELL AS FEATURES CONSTRUCTED OR INSTALLED BY THE CONTRACTOR.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER AS REQUIRED FOR CONSTRUCTION.
9. CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN A MANNER WHICH PREVENTS THE RELEASE OF HAZARDOUS MATERIALS, INCLUDING OILS, SOLVENTS, HYDRAULIC FLUID, AND FUEL. SPILLS SHALL BE CLEANED IMMEDIATELY BY THE CONTRACTOR AND THE MATERIALS RESULTING FROM THE CLEANUP SHALL BE PROPERLY DISPOSED IN ACCORDANCE WITH APPLICABLE FEDERAL AND STATE REGULATIONS AND AT NO ADDITIONAL COST TO THE PROJECT. THE CONTRACTOR SHALL FURNISH SPILL KITS EQUIPPED WITH MATERIALS TO CONTROL/CONTAIN SPILLS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING SPILLS IN ACCORDANCE WITH LOCAL AND STATE GUIDELINES.
10. TRASH AND CONSTRUCTION-RELATED SOLID WASTES SHALL BE CONTAINERIZED AND PROPERLY DISPOSED OFF SITE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS.
11. CONSTRUCTION WASTE AND DEBRIS SHALL NOT BE BURIED OR BURNED ON SITE.
12. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND MARK FOR PROTECTION AND/OR FENCE ANY AREAS ADJACENT TO THE WORK THAT WILL BE PROTECTED DURING CONSTRUCTION.

BASEMAP:

1. BASEMAP TOPOGRAPHY FOR OU-1 UPLAND AREAS ARE BASED ON APRIL 2020 FIELD AND AERIAL DRONE SURVEY CONDUCTED BY NMB LAND SURVEYING, PLLC OF WYNANTSKILL, NY. ALL OTHER INFORMATION (E.G., UTILITIES, STABILIZED SOIL BARRIERS, MONITORING WELLS, RIVERBED AND BANK CONTOURS) BASED ON INFORMATION CONTAINED IN THE PLATTSBURGH (SARANAC STREET) FORMER MGP SITE OPERABLE UNIT 1 RIVERBED AND BANK RESTORATION PLAN BY ARCADIS OF NEW YORK, INC. DATED NOVEMBER 2019.
2. ELEVATIONS ARE IN FEET AND ARE REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29). ELEVATIONS BASED ON BENCHMARK M-362 (ELEVATION – 135.308 NGVD29) SET BY COAST AND GEODETIC SERVICE IN 1955, LOCATED AT THE NORTHWEST CORNER OF THE CITY HALL BUILDING. HORIZONAL COORDINATES REFERENCED TO NORTH AMERICAN DATUM 1927 STATE PLANE NEW YORK (EAST ZONE), FEET.
3. ALL LOCATIONS, INCLUDING PROPERTY LINES AND ABOVE- AND UNDERGROUND UTILITIES, ARE APPROXIMATE, REFLECT AVAILABLE INFORMATION, ARE PROVIDED FOR REFERENCE ONLY, AND ARE SUBJECT TO FIELD VERIFICATION BY THE CONTRACTOR. EASEMENTS AND RIGHT-OF-WAY BOUNDARIES ARE NOT SHOWN.
4. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER AND THE OVERSIGHT ENGINEER, UPON DISCOVERY, AND BEFORE CONDITIONS ARE FURTHER DISTURBED, OF PHYSICAL CONDITIONS AT THE SITE WHICH DIFFER MATERIALLY FROM THOSE INDICATED ON THE CONSTRUCTION DOCUMENTS.
5. EXTENT AND ELEVATION OF STABILIZED SOIL BARRIER AND DNAPL OBSERVATION/COLLECTION TRENCH SHEET PILE WALL ARE ACCURATE TO THE EXTENT FEASIBLE BASED ON AVAILABLE SURVEY INFORMATION. HOWEVER, LOCATIONS ARE CONSIDERED APPROXIMATE AND GRADING SHALL BE ADJUSTED AS NECESSARY DURING CONSTRUCTION TO AVOID SUBSURFACE STRUCTURES.

SUBMITTALS:

1. THE CONTRACTOR SHALL SUBMIT PRODUCT DATA (E.G., LABORATORY TEST RESULTS, CATALOG DATA, CUT SHEETS, AND/OR SAFETY DATA SHEETS, AS APPLICABLE) FOR ALL SPECIFIED MATERIALS TO THE OVERSIGHT ENGINEER FOR APPROVAL AT LEAST TWO WEEKS PRIOR TO DELIVERY TO THE SITE UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING WITH THE OVERSIGHT ENGINEER THAT ALL REQUIRED SUBMITTALS FOR A GIVEN MATERIAL HAVE BEEN REVIEWED BY THE OVERSIGHT ENGINEER PRIOR TO BRINGING THE MATERIAL ON-SITE. REVIEW OF CONTRACTOR-SUBMITTED DATA BY THE OVERSIGHT ENGINEER SHALL BE FOR CONFORMANCE WITH THE DESIGN ONLY AND SHALL NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE DESIGN.

SITE PREPARATION:

1. PRIMARY SITE ACCESS SHALL BE FROM CAROLINE STREET VIA SARANAC STREET.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ABOVE- AND UNDERGROUND UTILITIES DURING CONSTRUCTION. THE LOCATION OF ALL ABOVE- AND UNDERGROUND UTILITIES MUST BE VERIFIED IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A LOCATION REQUEST VIA UDIG-NY (WWW.UDIGNY.ORG) AND COORDINATE WITH ALL APPLICABLE UTILITY COMPANIES TO IDENTIFY LOCATIONS OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL PROTECT ALL UTILITY POLES, GUY WIRES, UNDERGROUND UTILITIES, AND/OR OVERHEAD WIRES THAT FALL WITHIN THE LIMITS OF CONSTRUCTION.
3. CONSTRUCTION SUPPORT, STAGING, AND LAYDOWN AREAS SHALL BE ON THE OWNER'S PROPERTY.
4. AREAS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED DURING CONSTRUCTION.

EROSION & SEDIMENT CONTROL:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL NECESSARY EROSION AND SEDIMENTATION CONTROLS (WHETHER SHOWN ON DRAWINGS OR NOT) THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (BLUE BOOK). THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR INSTALLATION AND ESTABLISHMENT OF ALL NECESSARY RESTORATION MEASURES UPON COMPLETION OF CONSTRUCTION.
2. THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE DUST CONTROL MEASURES AT ALL TIMES TO MINIMIZE FUGITIVE DUST.
3. THE CONTRACTOR SHALL UTILIZE GOOD HOUSEKEEPING PRACTICES TO MAINTAIN A NEAT AND ORDERLY SITE AT ALL TIMES DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL PREVENT TRACKING OF SOIL MATERIALS ONTO OFFSITE AREAS. ANY SOIL MATERIALS ACCIDENTALLY TRACKED OR OTHERWISE SPILLED OR DROPPED ONTO OFFSITE AREAS SHALL BE IMMEDIATELY CLEANED (AND DISPOSED OF IF NECESSARY) UP BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. ANY IMPORTED SOIL MATERIALS AND/OR EXCAVATED SOILS/SEDIMENTS REQUIRING TEMPORARY STOCKPILING ONSITE SHALL BE SURROUNDED WITH APPROPRIATE TEMPORARY EROSION AND SEDIMENTATION CONTROLS (E.G., SILT FENCE, STRAW/HAY BALES) TO CONTAIN ANY SEDIMENT-LADEN RUNOFF THAT COULD BE GENERATED FROM STOCKPILES.

GENERAL RESTORATION AND DEMOBILIZATION:

1. THE CONTRACTOR SHALL RESTORE TO PRE-CONSTRUCTION CONDITIONS ALL SUPPORT AREAS THAT ARE IMPACTED BY CONSTRUCTION ACTIVITIES, INCLUDING BUT NOT LIMITED TO, EQUIPMENT AND MATERIALS STORAGE AREAS, MATERIAL LOADING AND STAGING AREAS, PARKING AREAS, AND LOCATIONS OF OFFICE TRAILERS, UNLESS OTHERWISE DIRECTED BY THE OWNER.
2. UPON COMPLETION OF CONSTRUCTION, THE SITE SHALL BE LEFT IN A CLEAN, NEAT, AND ORDERLY CONDITION.
3. THE CONTRACTOR SHALL BEAR ALL COSTS AND RESPONSIBILITY FOR REPAIRS TO ANY ONSITE AND/OR OFFSITE FEATURES (E.G., UTILITIES, SIDEWALKS, ROADS) AND/OR SURFACES DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.

SAFETY NOTES:

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR IMPLEMENTING, MAINTAINING, AND SUPERVISING ALL SAFETY MEASURES AND PROGRAMS FOR CONTRACTOR EMPLOYEES, SUBCONTRACTORS, AND ANY OTHER PERSONS WHO MAY BE AFFECTED THEREBY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE THE NECESSARY PRECAUTIONS TO PROTECT, SITE WORKERS, OWNER PERSONNEL, ENGINEER PERSONNEL, AND SITE VISITORS.
2. THE CONTRACTOR SHALL FURNISH AND PLACE, AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK, ALL NECESSARY SAFEGUARDS FOR THE SAFETY AND PROTECTION OF PERSONS AND PROPERTY, INCLUDING PROPER GUARDS FOR PREVENTION OF ACCIDENTS, AND PROVIDE ALL DUST/VAPOR/ODOR PROTECTION, MECHANICAL/ELECTRICAL PROTECTION, SPECIAL GROUNDING, SAFETY RAILINGS, BARRIERS, PROPER WORKING EQUIPMENT WITH FUNCTIONING SAFETY MECHANISMS (E.G., LIFT GATE WARNING SIGNALS), ALL SITE SAFETY SIGNAGE, AND/OR OTHER SAFETY FEATURES AS REQUIRED.
3. THE CONTRACTOR SHALL PREPARE A HEALTH AND SAFETY PLAN (HASP) RECOGNIZING THE TYPES OF ACTIVITIES TO BE PERFORMED, THE UNIQUE HAZARDS SPECIFIC TO THESE ACTIVITIES, AND SPECIAL PRECAUTIONS AND CONTROLS THAT ARE TO BE IMPLEMENTED. THE CONTRACTOR SHALL CLEARLY IDENTIFY AND EVALUATE SPECIFIC INGRESS/EGRESS ROUTES AND PROVISIONS, PERSONNEL AND WORK AREA MONITORING, PERSONAL PROTECTIVE EQUIPMENT, AND COMMUNICATION MODES.
4. CONSTRUCTION ACTIVITIES WILL BE PERFORMED ADJACENT TO, OR IN THE VICINITY OF, UTILITY POLES, OVERHEAD, UNDERGROUND ELECTRICAL LINES, AND TRANSFORMERS. THE CONTRACTOR-PREPARED HASP SHALL RECOGNIZE THESE HAZARDS AND INCORPORATE SPECIAL PRECAUTIONS AND CONTROLS SPECIFIC TO WORKING NEAR SUCH HAZARDS.
5. THE CONTRACTOR SHALL PROVIDE A LIST OF ALL CHEMICAL PRODUCTS AND MATERIAL SAFETY DATA SHEETS FOR ALL CHEMICAL PRODUCTS TO BE USED ONSITE. THE LIST MUST BE APPROVED BY THE OWNER PRIOR TO DELIVERY OF CHEMICALS TO THE SITE.
6. THE CONTRACTOR-PREPARED HASP SHALL INCORPORATE SPECIAL PRECAUTIONS AND CONTROLS SPECIFIC TO WORKING NEAR WATER. PERSONNEL SHALL WEAR U.S. COAST GUARD-APPROVED (TYPE I OR II) PFD (E.G., LIFE JACKET) WHEN WORKING IN CLOSE PROXIMITY TO FAST-FLOWING WATER DEEPER THAN 4 FEET. ADDITIONALLY, USE OF LIFELINES MAY BE REQUIRED.
7. THE CONTRACTOR SHALL REPAIR, RESTORE, OR REPLACE IN-KIND ALL ON-SITE AND OFF-SITE FEATURES (E.G., UTILITIES, SIDEWALKS, ROADS) AND SURFACES DAMAGED DUE TO CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.
8. THE CONTRACTOR SHALL PROTECT ALL EXISTING MONITORING WELLS, SUMPS, AND RECOVERY WELLS DURING CONSTRUCTION. DAMAGED WELLS AND/OR SUMPS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OVERSIGHT ENGINEER AND OWNER AT NO ADDITIONAL COST TO THE OWNER. MODIFICATION OF WELLS MAY BE REQUIRED TO FACILITATE IMPLEMENTATION OF THIS RESTORATION PLAN. WHERE REQUIRED, MONITORING WELLS SHALL BE EXTENDED IN ACCORDANCE WITH THE MONITORING WELL EXTENSION DETAIL PROVIDED IN THIS DRAWING SET. SHORTENING OF MONITORING WELLS (IF REQUIRED) SHOULD BE PERFORMED UNDER THE DIRECTION OF THE OVERSIGHT ENGINEER OR DESIGN ENGINEER AFTER APPROVAL FROM THE OWNER.

SURVEY REQUIREMENTS:

1. THE CONTRACTOR SHALL PROVIDE SURVEY SERVICES SUFFICIENT TO SUPPORT THE OVERALL PROJECT AND TO DOCUMENT THE PERFORMANCE OF THE WORK.
2. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN SITE SURVEY CONTROL. SURVEY DATUMS SHALL MATCH BASEMAP DATUMS.
3. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL ESTABLISHED SURVEY BENCHMARKS FOR THE DURATION OF THE PROJECT.
4. SURVEY WORK SHALL BE PERFORMED UNDER THE DIRECTION OF A LICENSED PROFESSIONAL LAND SURVEYOR WITH A CURRENT REGISTRATION IN THE STATE OF NEW YORK.
5. WHILE THE USE OF EQUIPMENT-MOUNTED GPS IS ENCOURAGED, EQUIPMENT-MOUNTED GPS DATA SHALL NOT BE CONSIDERED ACCEPTABLE FOR RECORD SURVEYS OR AS BACKUP FOR MEASUREMENT AND PAYMENT REQUESTS.
6. SURVEY EQUIPMENT SHALL BE CAPABLE OF ACHIEVING A HORIZONTAL PRECISION AND ACCURACY FOR ANY INDIVIDUAL SURVEY SHOT OF PLUS OR MINUS 0.10 FEET, OR BETTER. VERTICAL ACCURACY SHALL BE PLUS OR MINUS 0.05 FEET FOR GENERAL SITE GRADING AND 0.02 FEET FOR STRUCTURAL FEATURES (E.G., PIPES, DRAINAGE FEATURES).
7. THE CONTRACTOR SHALL PERFORM THE FOLLOWING RECORD SURVEYS:
   a. AS-BUILT DEMARCATION LAYER SURVEY DOCUMENTING THE TOPOGRAPHY OF SITE SUBGRADE FOLLOWING DEPLOYMENT OF THE GEOTEXTILE DEMARCATION LAYER. DEMARCATION LAYER SURVEY SHALL EXTEND TO THE DEMARCATION LIMIT SHOWN ON THE SUBGRADE SITE PLAN. DATA COLLECTION SHALL INCLUDE TOPS AND TOES OF SLOPES, GRADE BREAKS, AND BE OF SUFFICIENT DENSITY TO ACCURATELY REPRESENT DEMARCATION LAYER TOPOGRAPHY WITH 1-FOOT ELEVATION CONTOURS. AT AN ABSOLUTE MINIMUM IN FLAT AREAS, POINT COLLECTION SHALL BE ON A 50-FOOT GRID.
   b. AS-BUILT SURVEY OF FINAL GRADE AND NEWLY INSTALLED/RESTORED SITE FEATURES (I.E. GRAVEL PARKING AREA) IN ALL WORK AREAS (INCLUDING FULL TOPOGRAPHIC AND SITE FEATURE SURVEY) OF SUFFICIENT POINT DENSITY TO ACCURATELY REPRESENT FINAL GRADE TOPOGRAPHY WITH 1-FOOT ELEVATION CONTOURS.
8. RECORD SURVEYS SHALL BE SUBMITTED AS AN ELECTRONIC COPY, CONSISTING OF AN AUTOCAD "DWG" FILE CONTAINING SURVEY POINTS, POINT DESCRIPTIONS AND ELEVATIONS, CONTOURS, AND SURVEYOR'S SURFACE MODEL. ALL SUBMITTED SURVEY FILES SHALL INCLUDE THE DATE OF SURVEY AND THE HORIZONTAL AND VERTICAL DATUMS USED.
9. ELECTRONIC COPIES SIGNED AND STAMPED BY LICENSED SURVEYOR. DRAWING(S) SHALL INCLUDE FULL LEGEND, NORTH ARROW, GRAPHICAL SCALE BAR, DATE OF SURVEY, HORIZONTAL AND VERTICAL DATUMS USED, PROJECT NAME AND NUMBER, AND SURVEYOR'S NAME, BUSINESS ADDRESS, AND LICENSE NUMBER.

ABBREVIATIONS

#	POUNDS
BGS	BELOW GROUND SURFACE
CMP	CORRUGATED METAL PIPE
CONT.	CONTINUED
DBH	DIAMETER AT BREAST HEIGHT
ECB	EROSION CONTROL BLANKET
EL.	ELEVATION
FT	FEET/FOOT
GPS	GLOBAL POSITIONING SYSTEM
HASP	HEALTH AND SAFELY PLAN
HDPE	HIGH DENSITY POLYETHYLENE
H:V	HORIZONTAL:VERTICAL
INV.	INVERT
ISS	IN-SITU SOIL SOLIDIFICATION
MAX	MAXIMUM
MGP	MANUFACTURED GAS PLANT
MH	MANHOLE
MHWL	MEAN HIGH WATER LINE
MIN	MINIMUM
NO.	NUMBER
NGVD29	NATIONAL GEODETIC VERTICAL DATUMOF 1929 (NGVD29)
NYSEG	NEW YORK STATE ELECTRIC AND GAS CORPORATION
NYSDEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NYSDOT	NEW YORK STATE DEPARTMENT OF TRANSPORTATION
OH	OVERHEAD
PLS	PURE LIVE SEED
PMLD	PLATTSBURGH MUNICIPAL LIGHTING DISTRICT
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
SAN	SANITARY
SCH	SCHEDULE
STA.	STATION
TOB	TOP OF BANK
TYP.	TYPICAL

NOT TO SCALE

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

Professional Engineer's Name: MARK O. GRAVELDING
Professional Engineer's No.: 069985-1

State	Date Signed	Project Mgr.
NY	.	.
Designed by	Drawn by	Checked by
.	BKD	.

ARCADIS

ARCADIS OF NEW YORK, INC.

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

NYSEG ● PLATTSBURGH, NEW YORK
PLATTSBURGH (SARANAC STREET) FORMER MGP SITE OPERABLE UNIT 1
SITE RESTORATION PLAN

GENERAL NOTES, LEGEND, AND ABBREVIATIONS

ARCADIS Project No. 30153941

Date APRIL 2023

ARCADIS OF NEW YORK, INC.
ONE LINCOLN CENTER
110 W FAYETTE STREET #300
SYRACUSE, NY 13202
TELEPHONE: 315-432-1529

1

SPECIFICATIONS

SUBGRADE DEVELOPMENT:

1. EARTHWORK REQUIRED TO ESTABLISH DESIGN SUBGRADE TOPOGRAPHY WILL PRIMARILY CONSISTS OF IMPORTING MATERIAL AND FILLING ABOVE EXISTING GRADES. SMALLER AREAS OF CUTTING WILL BE REQUIRED TO ENSURE THE MINIMUM-REQUIRED SOIL COVER THICKNESS ABOVE THE DEMARCATION LAYER IS ACHIEVED IN ALL AREAS (E.G., AT THE DEMARCATION LIMIT CUT MATERIALS SHALL BE UTILIZED AS SUBGRADE FILL).
2. MATERIAL USED AS SUBGRADE FILL (E.G., IMPORTED AND PLACED CRUSHED CONCRETE TO ESTABLISH SUBGRADE TOPOGRAPHY) SHALL BE FREE OF LUMPS AND ROCKS LARGER THAN 6 INCHES, EXCESSIVE LOAM OR ORGANIC MATTER, EXCESSIVE MOISTURE, FROZEN MATERIAL, VERY SOFT CLAYS, SWELLING CLAYS, EXCESSIVELY SILTY MATERIAL, TRASH, DEBRIS, AND FINE UNIFORM SANDS THAT MAY BE DIFFICULT TO COMPACT.
3. SUBGRADE FILL SHALL BE PLACED OVERTOP A SCARIFIED SURFACE IN UNIFORM LOOSE LAYERS NOT TO EXCEED 12 INCHES AND COMPACTED TO A FIRM, NON-YIELDING CONDITION. FIRM, NON-YIELDING CONDITION IS ACHIEVED WHEN GROUND EXHIBITS NO PUMPING OR HEAVING AND SUBSEQUENT PASSES OF COMPACTION EQUIPMENT DO NOT DEPRESS GROUND SURFACE (I.E., CREATE TRACKS) MORE THAN APPROXIMATELY 0.5 INCHES DEEP.
4. SUBGRADE FILL SHALL NOT BE PLACED, SPREAD, OR COMPACTED DURING UNFAVORABLE WEATHER CONDITIONS (E.G., HEAVY RAIN, SNOW, FREEZING CONDITIONS). FILL PLACEMENT AREAS MUST BE KEPT FREE OF STANDING WATER AT ALL TIMES.

GENERAL FILL:

1. MATERIAL USED AS GENERAL FILL (I.E., IMPORTED AND PLACED TO ESTABLISH FINAL GRADE TOPOGRAPHY) SHALL BE FREE OF LUMPS AND ROCKS LARGER THAN 3 INCHES, EXCESSIVE LOAM OR ORGANIC MATTER, EXCESSIVE MOISTURE, FROZEN MATERIAL, VERY SOFT CLAYS, SWELLING CLAYS, EXCESSIVELY SILTY MATERIAL, TRASH, DEBRIS, AND FINE UNIFORM SANDS THAT MAY BE DIFFICULT TO COMPACT.
2. GENERAL FILL WITHIN 1 FOOT OF FINAL GRADE SHALL MEET THE SOIL CLEANUP OBJECTIVES FOR COMMERCIAL USE FOUND IN 6 NYCRR PART 375.

GEOTEXTILE:

1. WOVEN GEOTEXTILE SHALL MEET THE MINIMUM REQUIREMENTS OF A CLASS 1 STABILIZATION GEOTEXTILE IN ACCORDANCE WITH TABLE 737-01E OF THE NYSDOT STANDARD SPECIFICATIONS (LATEST EDITION).
2. DEMARCATION LAYER SHALL BE A BRIGHT YELLOW OR ORANGE NON-WOVEN GEOTEXTILE FABRIC HAVING MINIMUM WEIGHT OF 6 OUNCES PER SQUARE YARD.

GRAVEL BASE:

1. GRAVEL BASE SHALL CONSIST OF CRUSHED STONE CONFORMING TO THE REQUIREMENTS OF ITEM NO. 304.12, TYPE 2 SUBBASE COURSE IN ACCORDANCE WITH SECTIONS 300 AND 700 OF THE NYSDOT STANDARD SPECIFICATIONS (US CUSTOMARY UNITS; LATEST EDITION).
2. GRAVEL BASE SHALL BE PLACED IN UNIFORM LOOSE LAYERS NOT TO EXCEED 12 INCHES AND COMPACTED TO A FIRM, NON-YIELDING CONDITION.

SEED:

1. PRIOR TO SEEDING, SOIL AMENDMENTS SHALL BE INCORPORATED AS RECOMMENDED BY THE TOPSOIL AGRONOMIC TESTING REPORT(S). INCORPORATE AMENDMENTS INTO THE TOP 2 TO 4 INCHES OF THE TOPSOIL PROFILE.
2. SEED TO A DEPTH OF 1/8 TO ¼ INCH. IF SEED IS BROADCAST, CULTIPACK OR RAKE INTO THE TOPSOIL AFTER SEEDING.
3. HYDROSEEDING MAY BE USED AT THE DISCRETION OF THE CONTRACTOR. IF HYDROSEEDED, TOPSOIL AMENDMENTS SHALL BE APPLIED DURING SEEDING.
4. SEED MIXTURE AND APPLICATION RATES SHALL BE AS FOLLOWS:

SEED MIX REQUIREMENTS FOR GENERAL LAWN AREAS
(APPLICATION RATE = 75# PLS/ACRE)

COMMON NAME	SCIENTIFIC NAME	PERCENTAGE BY WEIGHT
CREEPING RED FESCUE, "PENNLAWN"	FESTUCA RUBRA	25%
ANNUAL RYEGRASS	LOLIUM MULTIFLORUM (L. PERENNE VAR. ITALICUM)	25%
PERRENIAL RYEGRASS. "BUCKANEER (TURF TYPE)"	LOLIUM PERENNE	25%
PERRENIAL RYEGRASS, "DIAMOND BACK (TURF TYPE)"	LOLIUM PERENNE	25%

SEED MIX REQUIREMENTS FOR VEGETATED SWALES
(APPLICATION RATE = 15# PLS/ACRE)

COMMON NAME	SCIENTIFIC NAME	PERCENTAGE BY WEIGHT
LITTLE BLUESTEM, FORT INDIANTOWN GAP-PA ECOTYPE	SCHIZACHYRIUM SCOPARIUM, FORT INDIANTOWN GAP-PA ECOTYPE	40.4%
CAREX VULPINOIDEA, PA ECOTYPE	FOX SEDGE, PA ECOTYPE	20.0%
VIRGINIA WILDRYE, MADISON-NY ECOTYPE	ELYMUS VIRGINICUS, MADISON-NY ECOTYPE	20.0%
DEERTONGUE, TIOGA	PANICUM CLANDESTINUM, TIOGA	9.0%
REDTOP PANICGRASS, PA ECOTYPE	PANICUM RIGIDULUM, PA ECOTYPE	5.5%
RIVER OATS, WV ECOTYPE	CHASMANTHIUM LATIFOLIUM, WV ECOTYPE	4.0%
BLUNT BROOM SEDGE, PA ECOTYPE	CAREX SCOPARIA, PA ECOTYPE	0.5%
SOFT RUSH	JUNCUS EFFUSUS	0.3%
PATH RUSH, PA ECOTYPE	JUNCUS TENUIS, PA ECOTYPE	0.3%
NOTE: VEGETATED SWALES SHALL ALSO BE SEEDED WITH A COVER CROP OF GRAIN RYE AT A RATE OF 30# PLS/ACRE.		

5. WHERE INDICATED, BIODEGRADABLE EROSION CONTROL BLANKET SHALL BE INSTALLED IMMEDIATELY FOLLOWING SEEDING.
6. THE CONTRACTOR SHALL PREVENT VEHICULAR TRAFFIC OR MOVEMENT OF CONSTRUCTION EQUIPMENT OVER SEEDED AREAS. SEEDED AREAS DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACHIEVING A MINIMUM 85% VEGETATIVE COVER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REGULAR LAWN MAINTENANCE (E.G., WATERING, FERTILIZING, CUTTING) UNTIL MINIMUM REQUIRED COVERAGE IS ACHIEVED. IF AREAS OF THE LAWN FAIL TO GROW, THE CONTRACTOR SHALL PLACE ADDITIONAL TOPSOIL, RE-APPLY OF SOIL AMENDMENTS, AND/OR RE-SEED AREAS AS NECESSARY TO ACHIEVE MINIMUM REQUIRED VEGETATIVE COVER, AT NO ADDITIONAL COST TO THE PROJECT. PAYMENT FOR REVEGETATION SHALL BE CONTINGENT UPON ACHIEVING 85% MINIMUM VEGETATIVE COVER.

TOPSOIL:

1. TOPSOIL SHALL BE A FERTILE, FRIABLE SOIL OF LOAMY CHARACTER, OBTAINED FROM WELL-DRAINED ARABLE LAND AND REASONABLY FREE FROM REFUSE, ROOTS, HEAVY OR STIFF CLAY, LARGE STONES, COARSE SAND, STICKS, BRUSH, LITTER, AND OTHER DELETERIOUS SUBSTANCES.
2. TOPSOIL SHALL BE DISTRIBUTED TO THE UNIFORM DEPTH OF 6 INCHES. IT SHALL NOT BE PLACED WHEN IT IS PARTIALLY FROZEN, MUDDY, OR ON OVER FROZEN GROUND, ICE, SNOW, OR STANDING WATER.
3. RAKE OR MANUALLY REMOVE ALL WOODY PLANTS, STONES OVER 2 INCHES IN DIAMETER, AND OTHER LITTER FROM TOPSOIL SURFACE FOLLOWING PLACEMENT. VEGETATIVE MATTER OTHER THAN BRUSH OR TREES MAY BE INCORPORATED INTO TOPSOIL.
4. A MINIMUM OF 2 TOPSOIL AGRONOMIC TESTS SHALL BE CONDUCTED BY AN INDEPENDENT AGRICULTURE TESTING LABORATORY (CORNELL COOPERATIVE EXTENSION OR EQUIVALENT) AUTHORIZED TO OPERATE IN NEW YORK STATE. AT A MINIMUM, AGRONOMIC TEST REPORTS SHALL INDICATE ORGANIC CONTENT, NUTRIENT CONTENT, pH, AND SOIL AMENDMENT RECOMMENDATIONS (E.G., LIME, FERTILIZER, ORGANICS) FOR SUCCESSFUL ESTABLISHMENT OF LAWN AREAS.
5. TOPSOIL WITHIN 1 FOOT OF FINAL GRADE SHALL MEET THE SOIL CLEANUP OBJECTIVES FOR COMMERCIAL USE FOUND IN 6 NYCRR PART 375.

RIPRAP:

1. RIPRAP MATERIAL SHALL BE WELL-GRADED, HARD, DURABLE, ANGULAR STONE HAVING A FULL RANGE AND EVEN DISTRIBUTION OF SIZES WITHIN THE FOLLOWING APPROXIMATE GRADATION BY WEIGHT:

PERCENT PASSING	STONE SIZE
95-100% (D_{MAX})	9 INCHES
40-50% (D_{50})	6 INCHES
0-5% (D_{MIN})	3 INCHES

BIODEGRADABLE EROSION CONTROL BLANKET :

1. BIODEGRADABLE EROSION CONTROL BLANKET (ECB) SHALL BE INSTALLED AT LOCATIONS IDENTIFIED ON THE DESIGN DRAWINGS AS WELL AS ALL VEGETATED CHANNELS AND ANY VEGETATED SLOPES 25% (4H:1V) OR STEEPER. ECB AND ASSOCIATED PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER INSTALLATION RECOMMENDATIONS AND GUIDELINES. ECB SHALL BE ANCHORED WITH BIODEGRADABLE STAKES (AS APPROVED BY NYSDEC) OR WOOD PEGS SPACED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
2. ON SLOPES, ECB SHALL BE INSTALLED PARALLEL TO THE DIRECTION OF THE SLOPE. INSTALL AN ANCHOR TRENCH AT THE UP-GRADIENT EDGE OF INSTALLATION. SHINGLE INSTALLATION SUCH THAT UP-GRADIENT ECB OVERLAPS DOWN-GRADIENT ECB.
3. IN CHANNELS, ECB SHALL BE INSTALLED PARALLEL TO THE DIRECTION OF FLOW. INSTALL AN ANCHOR TRENCH AT THE UPSTREAM EDGE OF INSTALLATION. SHINGLE INSTALLATION SUCH THAT UPSTREAM ECB OVERLAPS DOWNSTREAM ECB.
4. SEED AND SOIL AMENDMENTS SHALL BE APPLIED TO TOPSOIL PRIOR TO ECB INSTALLATION. THE ECB SUBGRADE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS PRIOR TO PLACEMENT.
5. ECB SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL. DEPLOY ECB LOOSELY AND ANCHOR OR STAKE TO MAINTAIN DIRECT CONTACT WITH SUBGRADE SOIL. DO NOT STRETCH ECB.
6. INSTALLED ECB SHALL BE INSPECTED WEEKLY UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 85% COVERAGE. DAMAGED OR DISPLACED ECB SHALL BE RESTORED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
7. ECB SHALL HAVE A MINIMUM LONGEVITY OF 12 MONTHS. ECB SHALL BE SUITABLE FOR STABILIZING SLOPES UP TO 2H:1V. IN CHANNELS, ECB SHALL BE CAPABLE OF WITHSTANDING SHEAR STRESSES UP TO 1.85 POUNDS PER SQUARE FOOT AND FLOW VELOCITIES UP TO 6.0 FEET PER SECOND. ACCEPTABLE PRODUCTS INCLUDE ROLLMAX S150BN BIONET AS MANUFACTURED BY NORTH AMERICAN GREEN OR APPROVED BIODEGRADABLE EQUIVALENT. ALL ECB SHALL BE REVIEWED AND APPROVED BY THE NYSDEC BEFORE DELIVERY TO THE SITE.

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NOT TO SCALE

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: _____ USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

Professional Engineer's Name: MARK O. GRAVELDING
Professional Engineer's No.: 069985-1
State: NY | Date Signed: . | Project Mgr.: .
Designed by: . | Drawn by: BKD | Checked by: .

STATE OF NEW YORK · MARK O. GRAVELDING · 069985-1 · LICENSED PROFESSIONAL ENGINEER

ARCADIS

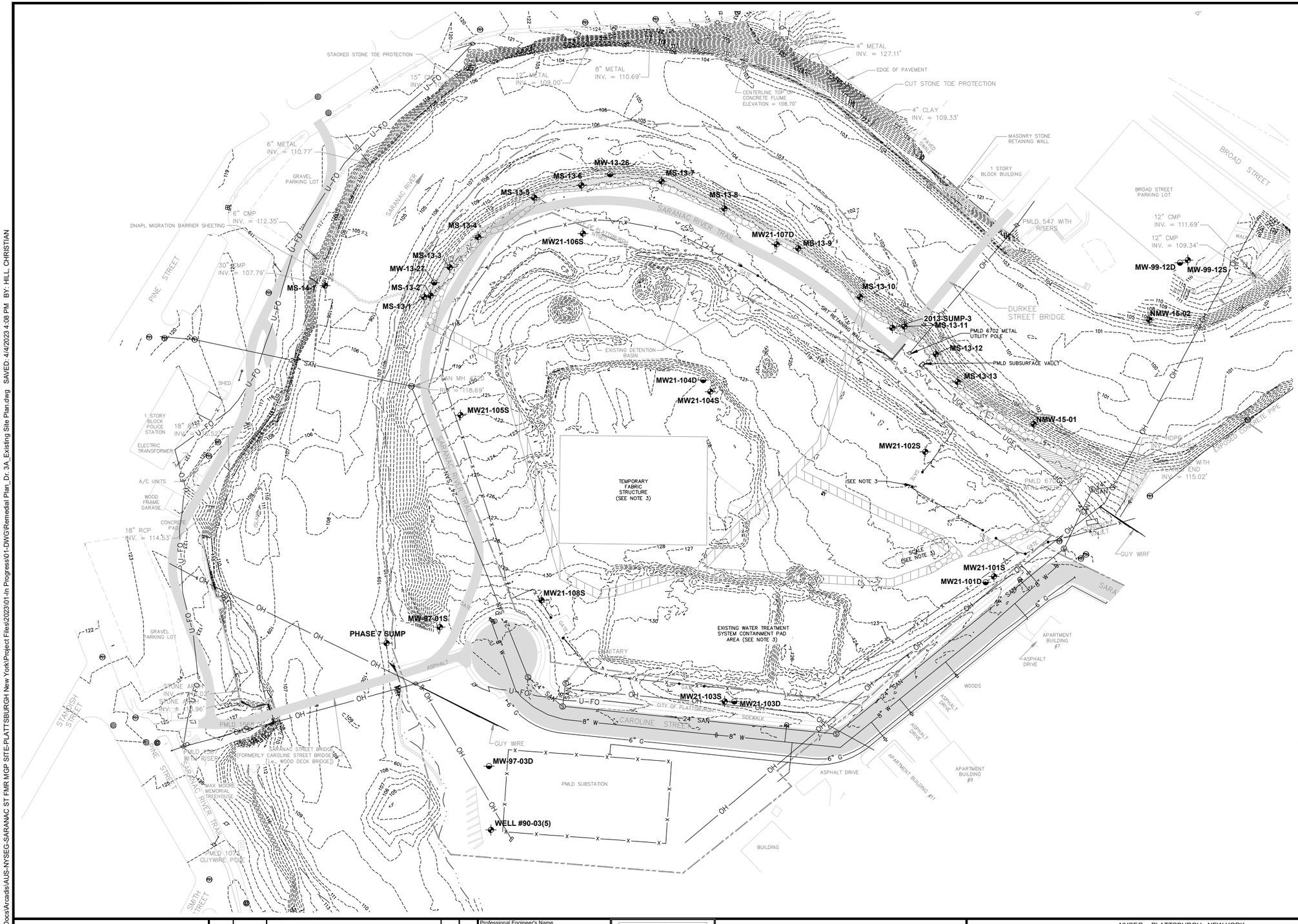
ARCADIS OF NEW YORK, INC.

NYSEG ● PLATTSBURGH, NEW YORK
PLATTSBURGH (SARANAC STREET) FORMER MGP SITE OPERABLE UNIT 1
SITE RESTORATION PLAN

SPECIFICATIONS

ARCADIS Project No. 30153941
Date APRIL 2023

ARCADIS OF NEW YORK, INC.
ONE LINCOLN CENTER
110 W FAYETTE STREET #300
SYRACUSE, NY 13202
TELEPHONE: 315-432-1529



LEGEND:

- PARCEL BOUNDARY
- EXISTING CONDITIONS TOPOGRAPHIC CONTOUR (1-FOOT INTERVAL)
- EXISTING UNDERGROUND FIBER OPTIC UTILITY
- EXISTING GAS UTILITY & SIZE
- EXISTING SANITARY UTILITY & SIZE
- EXISTING WATER UTILITY & SIZE
- EXISTING HYDRANT
- EXISTING GAS MARKER
- SANITARY MANHOLE
- EXISTING FENCE
- EXISTING OVERHEAD WIRE UTILITY
- EXISTING UNDERGROUND ELECTRIC UTILITY
- EXISTING GUIDERAIL
- EXISTING STORM SEWER
- EXISTING CATCH BASIN
- EXISTING UTILITY POLE
- EXISTING MANHOLE
- EXISTING WATER VALVE
- EXISTING DETENTION BASIN
- EXISTING ASPHALT
- EXISTING RIPRAP
- ORDINARY HIGH WATER MARK
- STABILIZED SOIL BARRIER - NOT VERIFIED
- STABILIZED SOIL BARRIER - VERIFIED
- DNAPL OBSERVATION/COLLECTION TRENCH SHEET PILE WALL (COMPLETED 2013)
- ISS LIMITS
- MONITORING WELL/SUMP
- BEDROCK MONITORING WELL
- NAPL RECOVERY WELL

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.
2. PARCEL BOUNDARIES OBTAINED FOR THE ENVIRONMENTAL EASEMENT AND PROVIDED BY MACHABEE LAND SURVEYING OF PLATTSBURGH, NY ON JANUARY 13, 2022.
3. EXISTING SITE INFRASTRUCTURE (I.E., TEMPORARY FABRIC STRUCTURE PAD, WATER TREATMENT SYSTEM PAD, FENCE ETC.) USED TO FACILITATE PREVIOUS REMEDIAL ACTIVITIES WILL BE DEMOLISHED PRIOR TO IMPLEMENTATION OF THIS RESTORATION PLAN.
4. ADDITIONAL SURVEY INFORMATION FOR THE SARANAC RIVER TRAIL RETAINING WALL, PMLD UTILITY POLE, AND VAULT COMPLETED BY LAND REMEDIATION, INC. AND PROVIDED ON MARCH 21, 2023.

1"=60' (60' 0 60' 120')

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

Professional Engineer's Name: MARK O. GRAVELDING		
Professional Engineer's No.: 069985-1		
State: NY	Date Signed: .	Project Mgr.: .
Designed by:	Drawn by: BKD	Checked by: .

ARCADIS

ARCADIS OF NEW YORK, INC.

NYSEG • PLATTSBURGH, NEW YORK

PLATTSBURGH (SARANAC STREET) FORMER MGP SITE OPERABLE UNIT 1
SITE RESTORATION PLAN

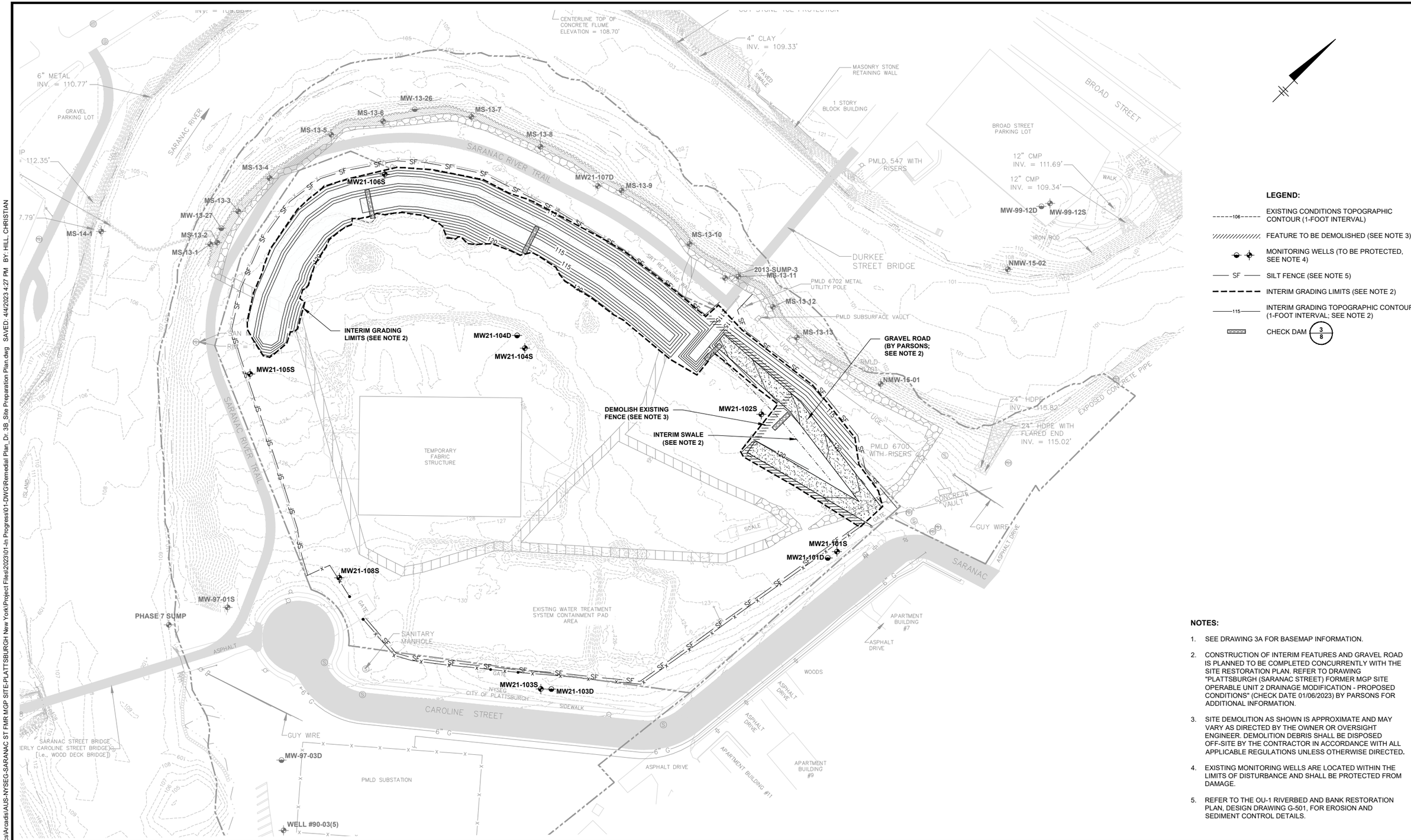
EXISTING SITE PLAN

ARCADIS Project No.: 30153941

Date: APRIL 2023

ARCADIS OF NEW YORK, INC.
ONE LINCOLN CENTER
110 W FAYETTE STREET #300
SYRACUSE, NY 13202
TELEPHONE: 315-432-1529

3A



LEGEND:

- EXISTING CONDITIONS TOPOGRAPHIC CONTOUR (1-FOOT INTERVAL)
- FEATURE TO BE DEMOLISHED (SEE NOTE 3)
- MONITORING WELLS (TO BE PROTECTED, SEE NOTE 4)
- SF — SILT FENCE (SEE NOTE 5)
- INTERIM GRADING LIMITS (SEE NOTE 2)
- INTERIM GRADING TOPOGRAPHIC CONTOUR (1-FOOT INTERVAL; SEE NOTE 2)
- CHECK DAM (3/8)

NOTES:

1. SEE DRAWING 3A FOR BASEMAP INFORMATION.
2. CONSTRUCTION OF INTERIM FEATURES AND GRAVEL ROAD IS PLANNED TO BE COMPLETED CONCURRENTLY WITH THE SITE RESTORATION PLAN. REFER TO DRAWING "PLATTSBURGH (SARANAC STREET) FORMER MGP SITE OPERABLE UNIT 2 DRAINAGE MODIFICATION - PROPOSED CONDITIONS" (CHECK DATE 01/06/2023) BY PARSONS FOR ADDITIONAL INFORMATION.
3. SITE DEMOLITION AS SHOWN IS APPROXIMATE AND MAY VARY AS DIRECTED BY THE OWNER OR OVERSIGHT ENGINEER. DEMOLITION DEBRIS SHALL BE DISPOSED OFF-SITE BY THE CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS UNLESS OTHERWISE DIRECTED.
4. EXISTING MONITORING WELLS ARE LOCATED WITHIN THE LIMITS OF DISTURBANCE AND SHALL BE PROTECTED FROM DAMAGE.
5. REFER TO THE OU-1 RIVERBED AND BANK RESTORATION PLAN, DESIGN DRAWING G-501, FOR EROSION AND SEDIMENT CONTROL DETAILS.

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50' 0 50' 100'
1"=50'

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No.	Date	Revisions	By	Ckd

Professional Engineer's Name: **MARK O. GRAVELDING**
Professional Engineer's No.: 069985-1
State: NY | Date Signed: . | Project Mgr.: .
Designed by: | Drawn by: BKD | Checked by: .

ARCADIS OF NEW YORK, INC.

NYSEG ● PLATTSBURGH, NEW YORK

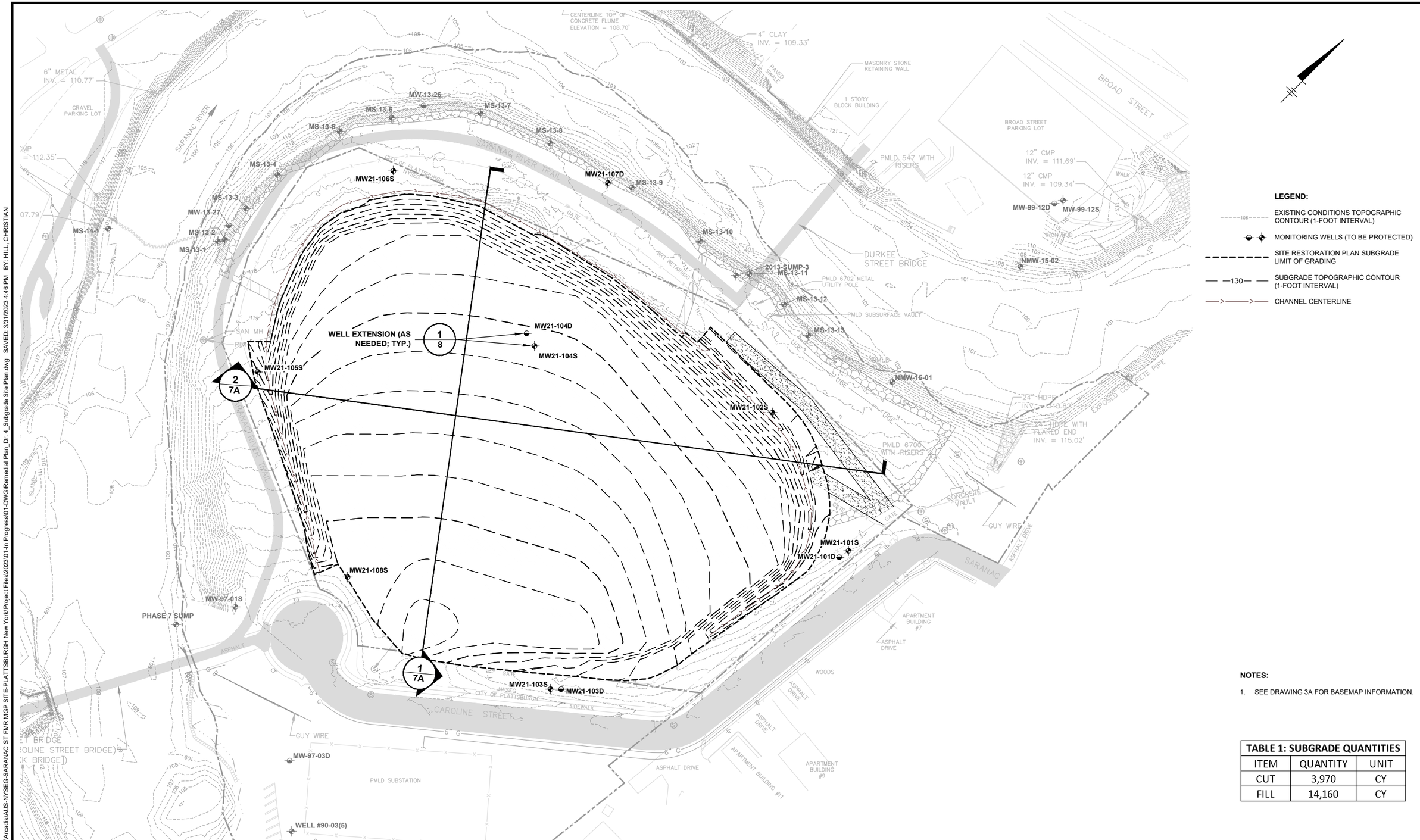
PLATTSBURGH (SARANAC STREET) FORMER MGP SITE OPERABLE UNIT 1
SITE RESTORATION PLAN

SITE PREPARATION PLAN

ARCADIS Project No. 30153941
Date APRIL 2023

ARCADIS OF NEW YORK, INC.
ONE LINCOLN CENTER
110 W FAYETTE STREET #300
SYRACUSE, NY 13202
TELEPHONE: 315-432-1529

3B



NOTES:

1. SEE DRAWING 3A FOR BASEMAP INFORMATION.

TABLE 1: SUBGRADE QUANTITIES

ITEM	QUANTITY	UNIT
CUT	3,970	CY
FILL	14,160	CY

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1"=50'

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No.	Date	Revisions	By	Ckd

Professional Engineer's Name: **MARK O. GRAVELDING**
Professional Engineer's No.: 069985-1

State	Date Signed	Project Mgr.
NY	.	.
Designed by	Drawn by	Checked by
	BKD	.

STATE OF NEW YORK · MARK O. GRAVELDING · 069985-1 · LICENSED PROFESSIONAL ENGINEER

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PLATTSBURGH (SARANAC STREET) FORMER MGP SITE OPERABLE UNIT 1
SITE RESTORATION PLAN

SUBGRADE SITE PLAN

ARCADIS Project No.
30153941

Date
APRIL 2023

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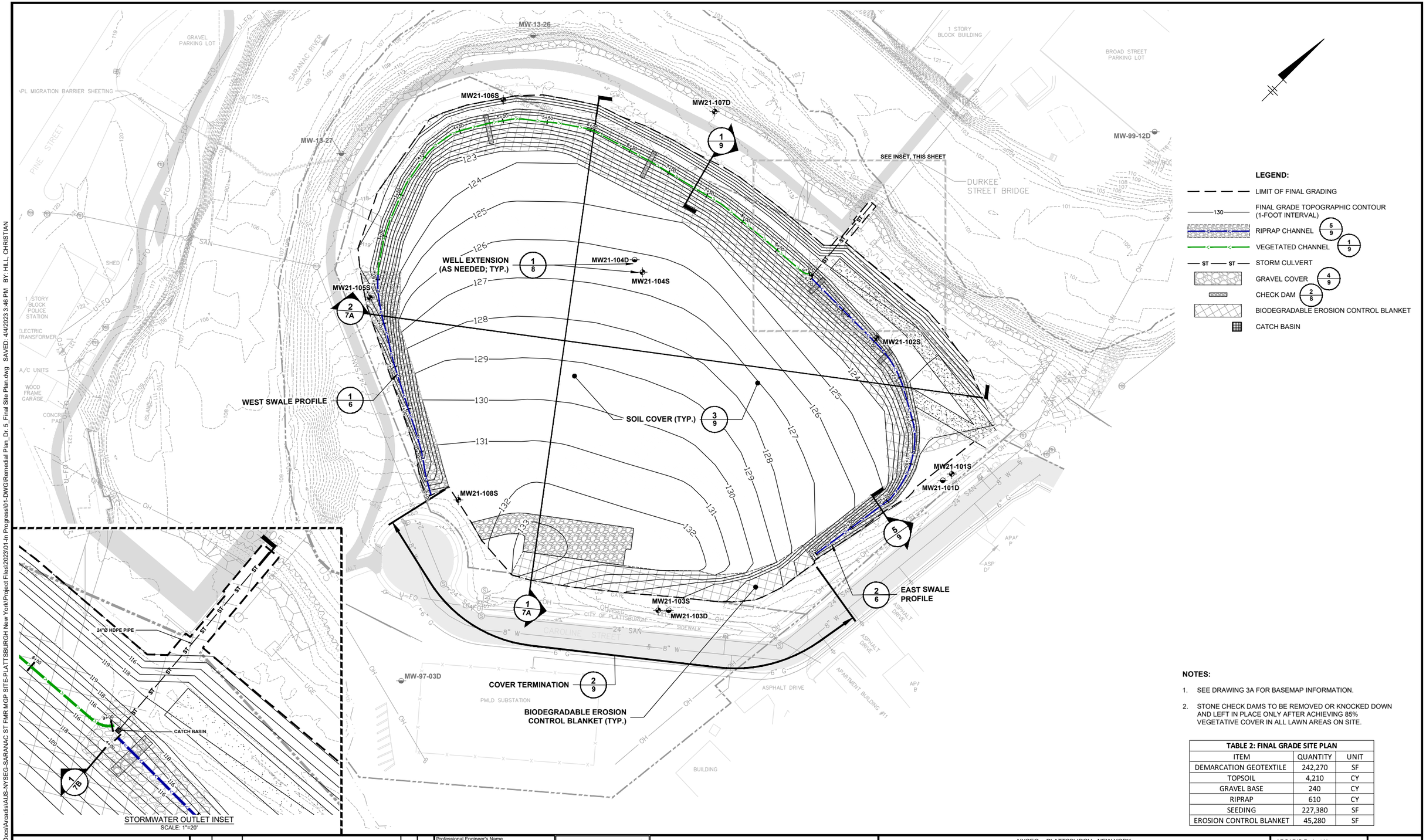

NOTES:

1. SEE DRAWING 3A FOR BASEMAP INFORMATION.
2. STONE CHECK DAMS TO BE REMOVED OR KNOCKED DOWN AND LEFT IN PLACE ONLY AFTER ACHIEVING 85% VEGETATIVE COVER IN ALL LAWN AREAS ON SITE.

TABLE 2: FINAL GRADE SITE PLAN

ITEM	QUANTITY	UNIT
DEMARCATION GEOTEXTILE	242,270	SF
TOPSOIL	4,210	CY
GRAVEL BASE	240	CY
RIPRAP	610	CY
SEEDING	227,380	SF
EROSION CONTROL BLANKET	45,280	SF

1"=50' (50' 0 50' 100')

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No.	Date	Revisions	By	Ckd

Professional Engineer's Name: MARK O. GRAVELDING
Professional Engineer's No.: 069985-1

State	Date Signed	Project Mgr.
NY	-	-
Designed by -	Drawn by BKD	Checked by -

NYSEG ● PLATTSBURGH, NEW YORK
PLATTSBURGH (SARANAC STREET) FORMER MGP SITE OPERABLE UNIT 1
SITE RESTORATION PLAN

FINAL GRADE SITE PLAN

ARCADIS Project No. 30153941
Date APRIL 2023

ARCADIS OF NEW YORK, INC.
ONE LINCOLN CENTER
110 W FAYETTE STREET #300
SYRACUSE, NY 13202
TELEPHONE: 315-432-1529

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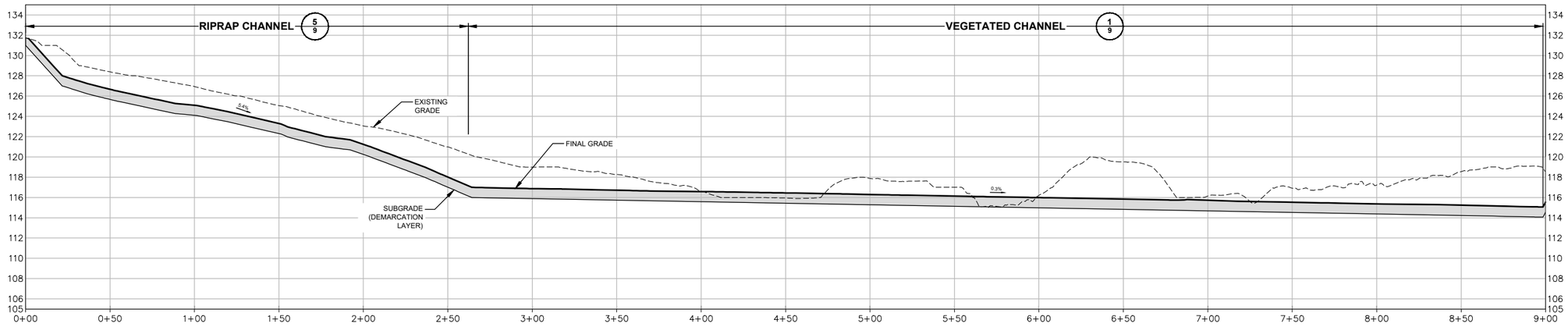
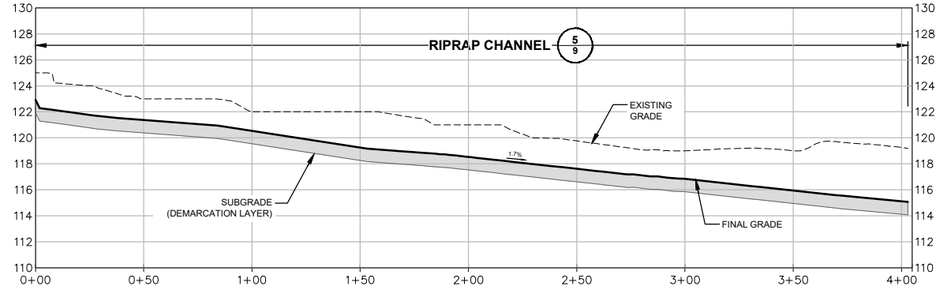


WEST SWALE PROFILE (1)

(5X VERTICAL EXAGGERATION)



EAST SWALE PROFILE (2)

(5X VERTICAL EXAGGERATION)

LEGEND

ONE FOOT OF CLEAN SOIL COVER

30' 0 30' 60'
HORIZONTAL SCALE:1"=30'

5' 0 5' 10'
VERTICAL SCALE (6x EXAGERATED):1"=5'

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USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

Professional Engineer's Name: MARK O. GRAVELDING

Professional Engineer's No.: 069985-1

State	Date Signed	Project Mgr.
NY		
Designed by	Drawn by	Checked by
	BKD	

ARCADIS

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PLATTSBURGH (SARANAC STREET) FORMER MGP SITE OPERABLE UNIT 1
SITE RESTORATION PLAN

PROFILES

ARCADIS Project No.
30153941

Date
APRIL 2023

ARCADIS OF NEW YORK, INC.
ONE LINCOLN CENTER
110 W FAYETTE STREET #300
SYRACUSE, NY 13202
TELEPHONE: 315-432-1529

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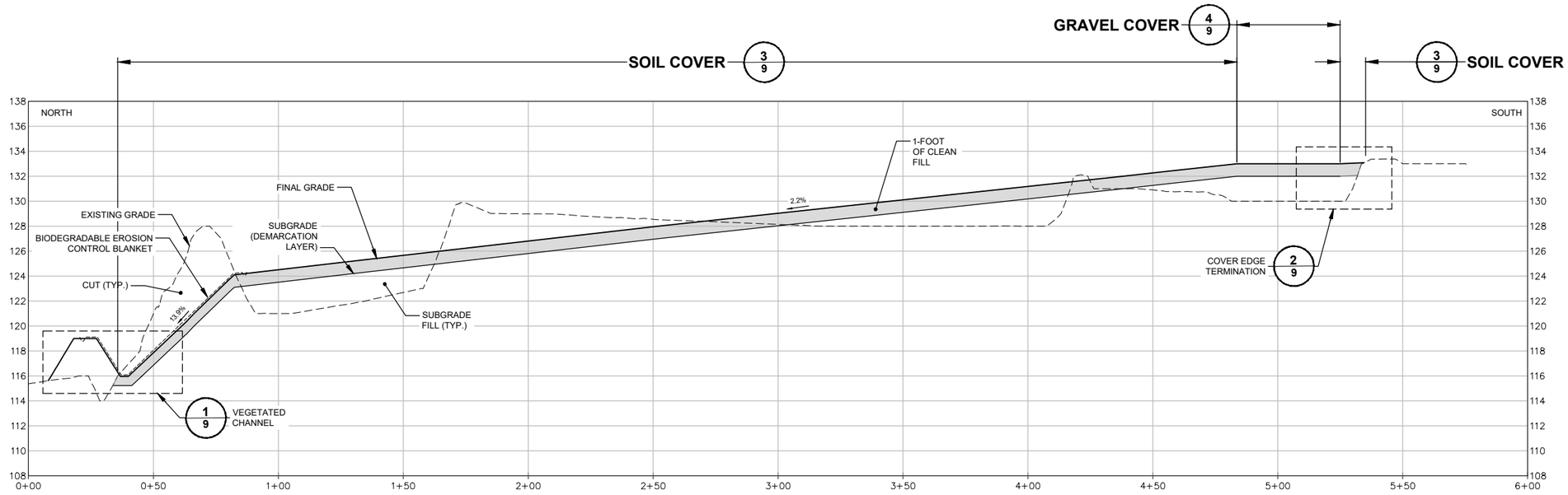
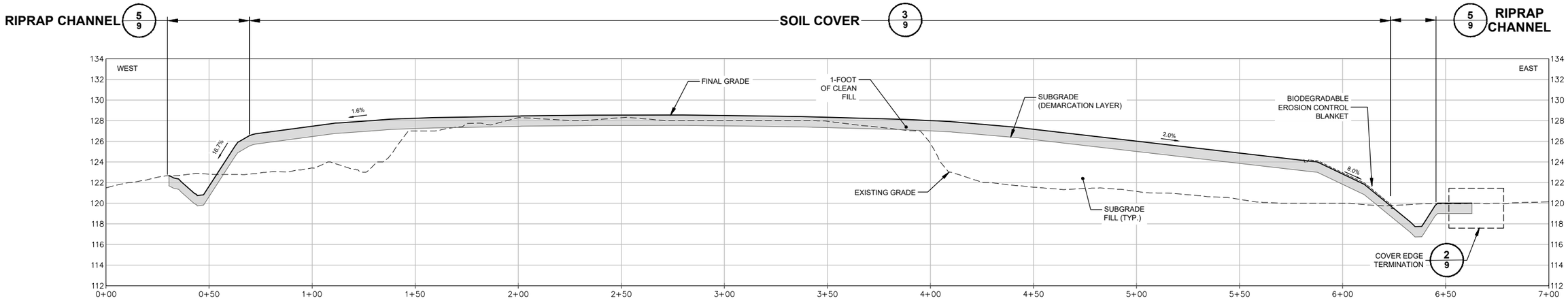


N-S CROSS SECTION 1

(5X VERTICAL EXAGGERATION)



W-E CROSS SECTION 2

(5X VERTICAL EXAGGERATION)

LEGEND

ONE FOOT OF CLEAN SOIL COVER

25' 0 25' 50'
HORIZONTAL SCALE 1"=25'
SCALE AS INDICATED
5' 0' 5' 10'
VERTICAL SCALE (5x EXAGERATED):1"=5'

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING:

USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

Professional Engineer's Name: MARK O. GRAVELDING		
Professional Engineer's No.: 069985-1		
State: NY	Date Signed: .	Project Mgr.: .
Designed by: JJB/LJP/KMC/SMB	Drawn by: BKD	Checked by: .

STATE OF NEW YORK MARK OWEN GRAVELDING NO. 069985-1 LICENSED PROFESSIONAL ENGINEER

ARCADIS

ARCADIS OF NEW YORK, INC.

NYSEG • PLATTSBURGH, NEW YORK

PLATTSBURGH (SARANAC STREET) FORMER MGP SITE OPERABLE UNIT 1
SITE RESTORATION PLAN

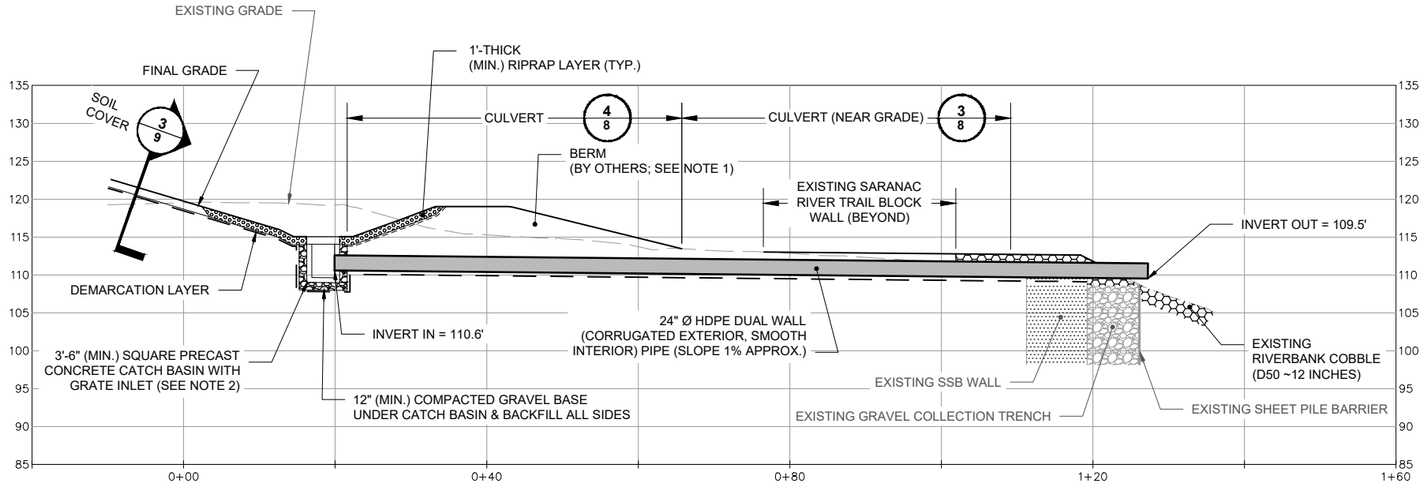
SITE CROSS SECTIONS

ARCADIS Project No.
30153941

Date
APRIL 2023

ARCADIS OF NEW YORK, INC.
ONE LINCOLN CENTER
110 W FAYETTE STREET #300
SYRACUSE, NY 13202
TELEPHONE: 315-432-1529

7A



NOTES:
1. CONSTRUCTION OF INTERIM SITE FEATURES (INCLUDING PERIMETER BERM) IS PLANNED TO BE COMPLETED CONCURRENTLY WITH THE SITE RESTORATION PLAN. REFER TO DRAWING "PLATTSBURGH (SARANAC STREET) FORMER MGP SITE OPERABLE UNIT 2 DRAINAGE MODIFICATION – PROPOSED CONDITIONS" (CHECK DATE 01/06/23) BY PARSONS FOR ADDITIONAL INFORMATION.

2. PRECAST CONCRETE CATCH BASIN SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C913–21: PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES. CATCH BASIN TOP SHALL INCLUDE A GRATE SET INTO AN INTEGRALLY CAST FRAME. FRAME AND GRATE SHALL BE DESIGNED FOR AASHTO H20 WHEEL LOADING UNLESS OTHERWISE DIRECTED BY THE OVERSIGHT ENGINEER.

3. ANNUAL SPACE BETWEEN HDPE CULVERT PIPE AND CATCH BASIN SHALL SEALED WITH NON–SHRINK GROUT.

CULVERT PROFILE (1)

(2X VERTICAL EXAGGERATION)

HORIZONTAL SCALE (FEET)
10' 0 10' 20'
VERTICAL SCALE (2x EXAGERATED):1"=5'
5' 0 5' 10'
SCALE AS INDICATED

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING:
USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

Professional Engineer's Name: **MARK O. GRAVELDING**
Professional Engineer's No.: 069985-1

State	Date Signed	Project Mgr.
NY	.	.
Designed by	Drawn by	Checked by
JJB/LJP/KMG/SMB	BKD	.

STATE OF NEW YORK · MARGOREN ARCADIS · NO. 069985-1 · PROFESSIONAL ENGINEER

ARCADIS

ARCADIS OF NEW YORK, INC.

NYSEG • PLATTSBURGH, NEW YORK
PLATTSBURGH (SARANAC STREET) FORMER MGP SITE OPERABLE UNIT 1
SITE RESTORATION PLAN

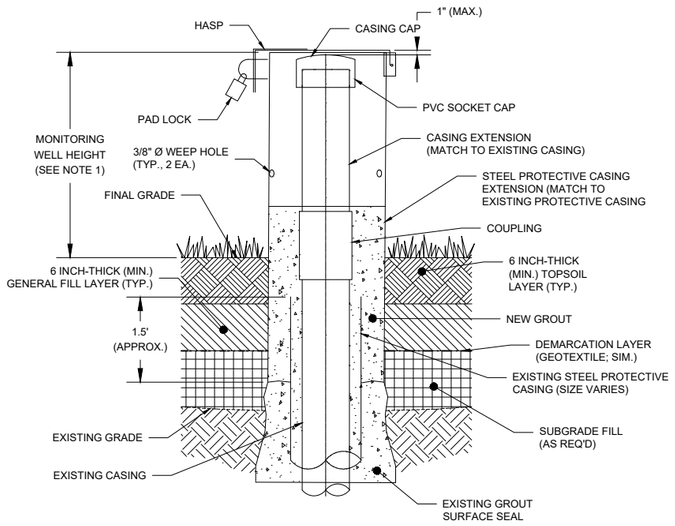
STORMWATER OUTLET DETAILS

ARCADIS Project No.
30153941

Date
APRIL 2023

ARCADIS OF NEW YORK, INC.
ONE LINCOLN CENTER
110 W FAYETTE STREET #300
SYRACUSE, NY 13202
TELEPHONE: 315-432-1529

7B

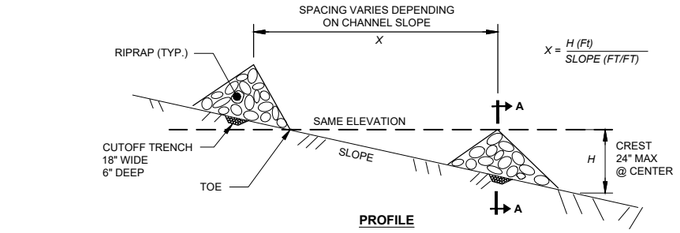


NOTES:

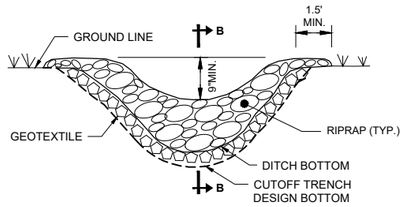
1. CONTRACTOR SHALL COORDINATE DIRECTLY WITH OWNER TO DETERMINE DESIRED MONITORING WELL HEIGHT ABOVE GRADE AND IF ANY MONITORING WELL EXTENSIONS ARE REQUIRED.

WELL EXTENSION (1)

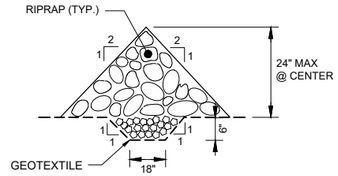
NOT TO SCALE



PROFILE



SECTION A-A



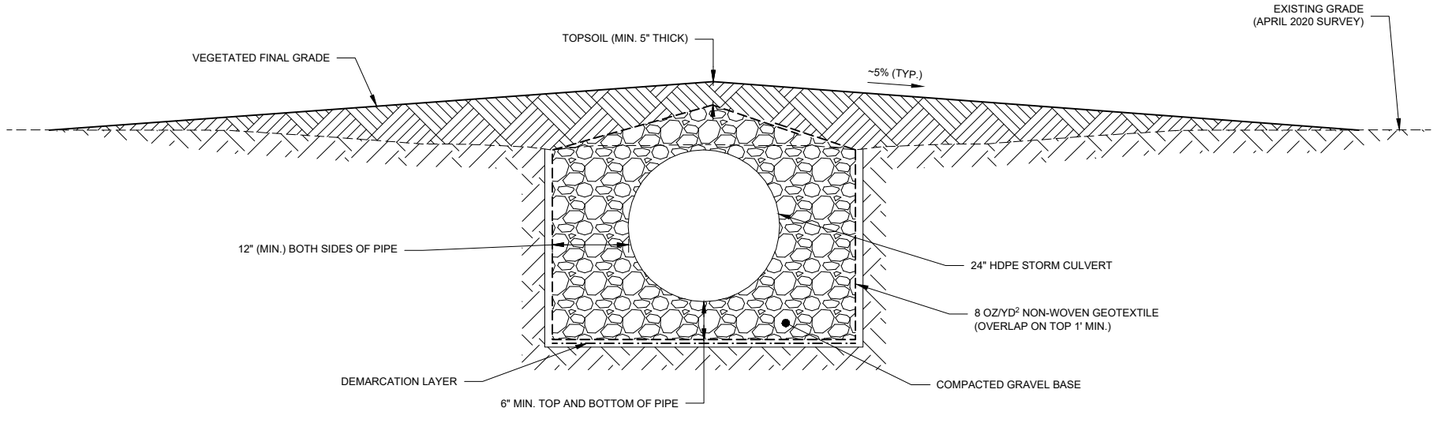
SECTION B-B

GENERAL NOTES:

1. SET SPACING OF CHECK DAMS SUCH THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
2. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE.
3. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED CHECK DAM MATERIAL.
4. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.

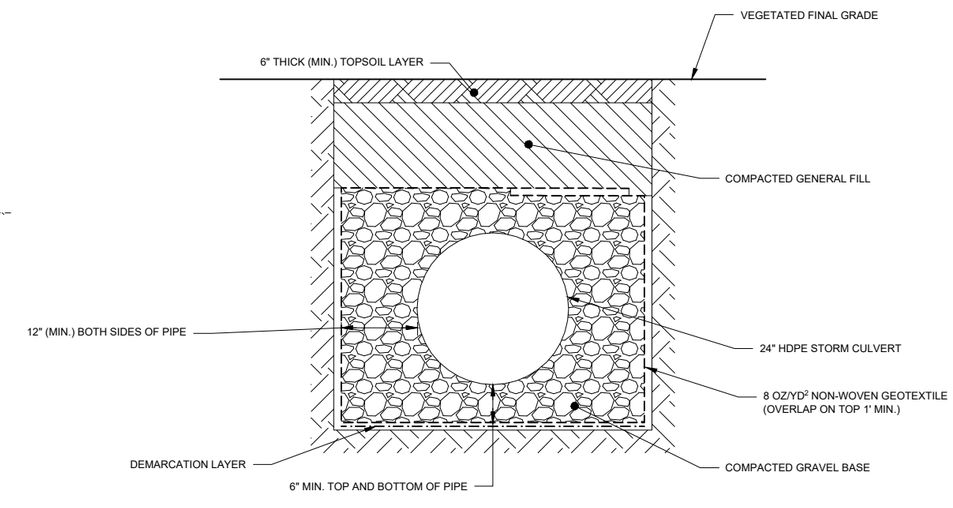
CHECK DAM (2)

NOT TO SCALE



CULVERT (NEAR GRADE) (3)

NOT TO SCALE



CULVERT (4)

NOT TO SCALE

NOT TO SCALE

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

Professional Engineer's Name: **MARK O. GRAVELDING**
Professional Engineer's No.: 069985-1

State	Date Signed	Project Mgr.
NY		
Designed by	Drawn by	Checked by
	BKD	.

STATE OF NEW YORK · MARK OWEN GRAVELDING · 069985 · LICENSED PROFESSIONAL ENGINEER

ARCADIS

ARCADIS OF NEW YORK, INC.

NYSEG • PLATTSBURGH, NEW YORK

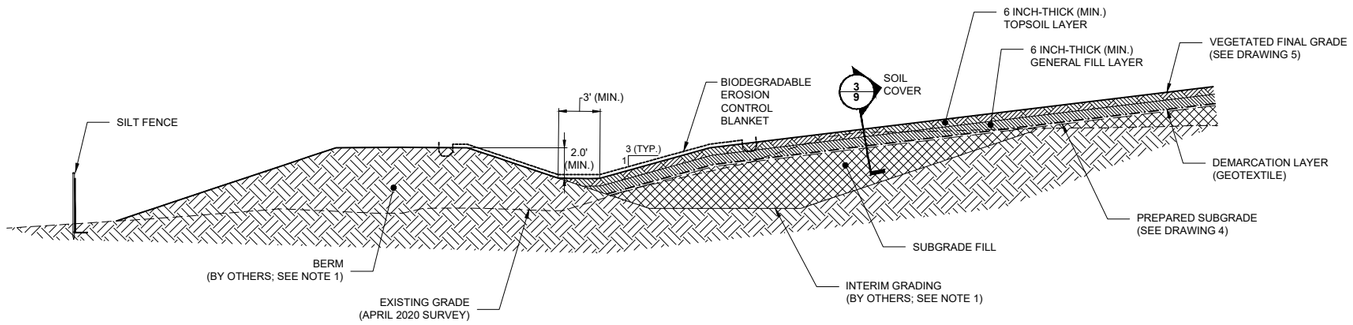
PLATTSBURGH (SARANAC STREET) FORMER MGP SITE OPERABLE UNIT 1
SITE RESTORATION PLAN

DETAILS

ARCADIS Project No.: 30153941

Date: APRIL 2023

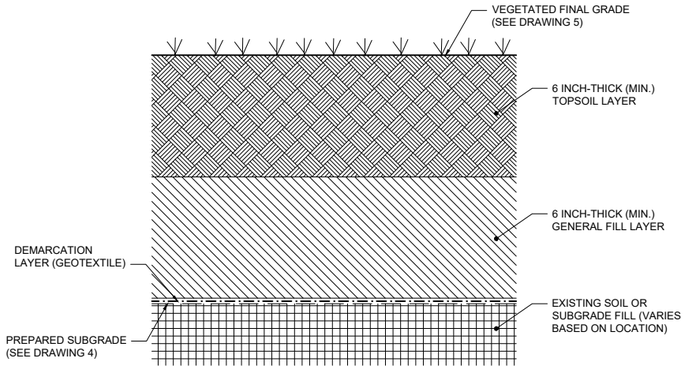
ARCADIS OF NEW YORK, INC.
ONE LINCOLN CENTER
110 W FAYETTE STREET #300
SYRACUSE, NY 13202
TELEPHONE: 315-432-1529



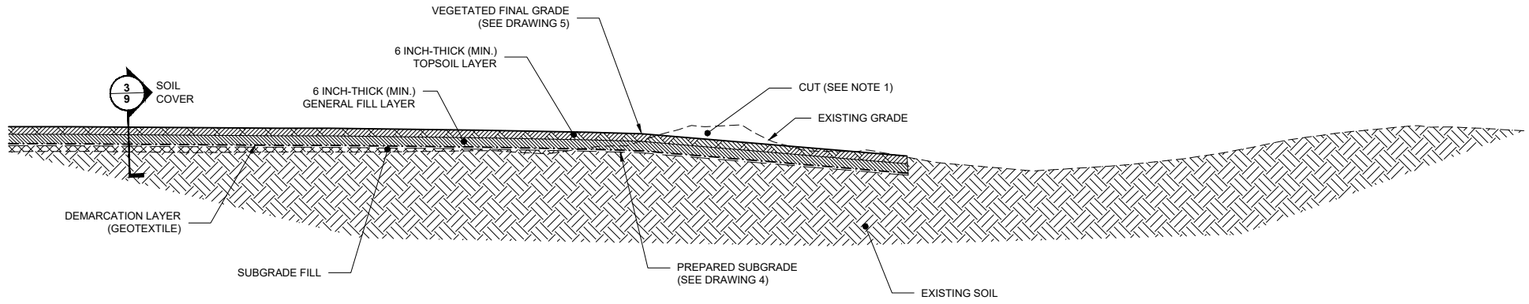
NOTE:

1. CONSTRUCTION OF INTERIM FEATURES IS PLANNED TO BE COMPLETED CONCURRENTLY WITH THE SITE RESTORATION PLAN. REFER TO DRAWING "PLATTSBURGH (SARANAC STREET) FORMER MGP SITE OPERABLE UNIT 2 DRAINAGE MODIFICATION - PROPOSED CONDITIONS" (CHECK DATE 01/06/23) BY PARSONS FOR ADDITIONAL INFORMATION.

VEGETATED CHANNEL 1
NOT TO SCALE



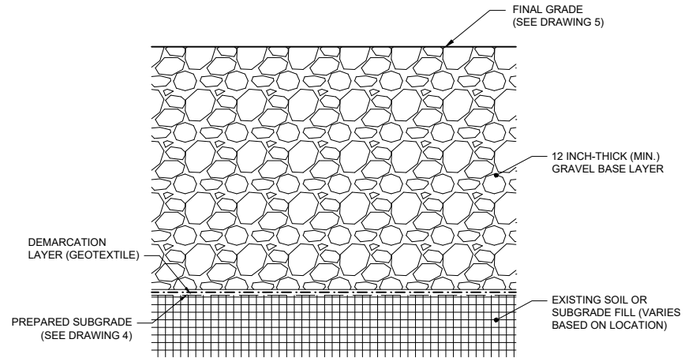
SOIL COVER 3
NOT TO SCALE



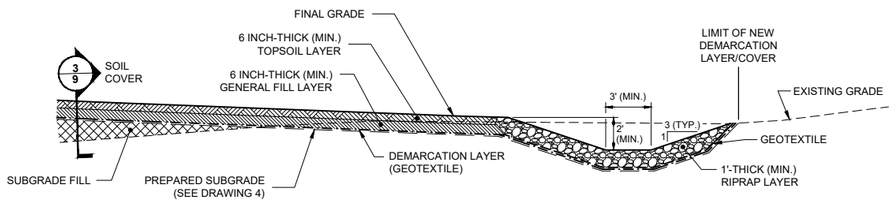
NOTE:

1. CUT MATERIAL SHALL BE UTILIZED AS SUBGRADE FILL IN CENTRAL PORTIONS OF THE SITE.

COVER TERMINATION 2
NOT TO SCALE



GRAVEL COVER 4
NOT TO SCALE



RIPRAP CHANNEL 5
NOT TO SCALE

NOT TO SCALE

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

Professional Engineer's Name: MARK O. GRAVELDING
Professional Engineer's No.: 069985-1
State: NY | Date Signed: | Project Mgr.:
Designed by: | Drawn by: BKD | Checked by: .

ARCADIS
ARCADIS OF NEW YORK, INC.

NYSEG ● PLATTSBURGH, NEW YORK
PLATTSBURGH (SARANAC STREET) FORMER MGP SITE OPERABLE UNIT 1
SITE RESTORATION PLAN

DETAILS

ARCADIS Project No.: 30153941
Date: APRIL 2023

ARCADIS OF NEW YORK, INC.
ONE LINCOLN CENTER
110 W FAYETTE STREET #300
SYRACUSE, NY 13202
TELEPHONE: 315-432-1529

9

Attachment D

New York State Department of Health Generic Community Air Monitoring Plan

Appendix 1A
New York State Department of Health
Generic Community Air Monitoring Plan

Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical- specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

Continuous monitoring will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. “Periodic” monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or

overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

December 2009

Attachment E

Saranac Street OU-1 Upland Restoration Sampling Plan (Parsons)

301 Plainfield, Suite 350, Syracuse, New York 13212
Office: +1 315.451.9560 / Fax: +1 315.451.9570 / parsons.com

Date: March 20, 2023

Subject: Saranac Street OU-1 Upland Restoration Sampling Plan
Plattsburgh, New York
NYSDEC Site No. 5-10-007

This sampling plan was prepared for New York State Electric and Gas Corporation (NYSEG) by Parsons to present sampling activities to be conducted concurrent with Operable Unit No. 1 (OU-1) Upland restoration and regrading activities to be performed at the Saranac Street Former Manufactured Gas Plant (MGP) Site (the Site) located in Plattsburgh, New York. Specifically, this sampling plan describes sampling activities to be conducted during the preparation of the existing subbase materials prior to placement of the site cover system, and sampling to be conducted for materials imported to the Site for use in the Site cover.

Re-Use Materials

Re-use materials that will be sampled include remaining excess materials from the OU-1 and OU-2 remedial activities and existing subgrade soil that will be relocated on-site during subgrade construction. Anticipated re-use materials include but are not limited to:

- Crushed Concrete
- Cut Soil Materials (i.e., regraded existing site cover soils)
- AquaBlok
- Clean Soil/Stone Materials (previously imported)

Re-Use materials will be placed below a new demarcation layer, in accordance with the Upland Restoration Plan (URP).

Existing Material Reuse Criteria

As detailed in the Record of Decision (2004), the OU-1 ROD approved Alternative 3B which required excavation and segregation of excavated soils on the basis of contaminant content. Soils determined to be “source material” were dewatered and prepared for off-site transportation during remedial excavation activities. Soils determined to be “residually impacted” were retained at the Site for use as backfill. Criteria for retaining material at the Site were established for use during OU-1 remediation activities, and these criteria are intended to be utilized during final OU-1 Upland Restoration activities.

According to the ROD, source material was defined as:

- Materials containing visible tar or oil,
- Material containing greater than 1,000 parts per million (ppm) of total polyaromatic hydrocarbons (PAHs) based on laboratory analytical results, and presence of sheens or odors, or,
- Materials containing visible purifier waste, where reactive cyanide concentrations were greater than 500 ppm and/or reactive sulfide concentrations were greater than 250 ppm, based on laboratory analytical results.

Selected remedial alternative 3B defined "remaining impacted" soils as those soils which would not qualify as "source material" but which have been impacted by manufactured gas plant (MGP) wastes so that they would meet one or more of the following criteria:

- Sheen or odors were present, but PAH concentrations were below 1,000 ppm;
- Purifier waste was present, but reactive cyanide concentrations were below 500 ppm and reactive sulfide concentrations were below 250 ppm, or
- Soil staining (only) was evident based on visual observation.

The above detailed criteria will be utilized for documentation sampling of re-use materials that will be placed below the new demarcation layer.

Sampling Frequency and Analysis

For each material type described above and intended to be placed below the new demarcation layer, documentation sampling will be performed at a frequency of 1 composite sample per 500 cubic yards (cy) of material. Samples will be composited from 5-10 individual grab samples. Materials containing less than 10% by weight passing a size 80 sieve will not require laboratory analysis. Materials containing greater than 10% by weight passing a size 80 sieve will be submitted for the following laboratory analysis:

- Total cyanide via EPA Method 9012B, and
- Total PAHs via EPA Method 8270E.

Imported Materials Utilized to Create the Site Cover System

The following materials will be imported to the Site for use in the final Site cover system, in accordance with the URP:

- Imported bank run soil,
- Crusher run stone used for access roads into the site and parking areas at the Site, and
- Imported topsoil.

Imported materials will be sourced and sampled consistent with previous phases of remediation. Imported material sampling will be conducted at a frequency of 1 sample per 1,500 cy of material. Materials containing less than 10% by weight passing a size 80 sieve will not require laboratory analysis. Materials containing greater than 10% by weight passing a size 80 sieve will be submitted for the following laboratory analysis:

- Volatile organic compounds (VOCs) via EPA Method 8260D,
- Semi-volatile organic compounds (SVOCs) via EPA Method 8270E,
- Total PCBs via EPA Method 8082A,
- Pesticides via EPA Method 8081B,
- Herbicides via EPA Method 8151A,
- TAL metals via EPA Method 6010B/7471B,
- Hexavalent chromium via EPA Method 7196A,
- Total cyanide via EPA Method 9012B, and
- Per- and polyfluoroalkyl substances via EPA Method 1633.

Grading-Placement Activities

Following the sampling activities presented above, materials deemed acceptable for reuse will be placed and graded in accordance with the URP. Once the final subgrade surface has been completed, a new orange demarcation layer comprised of Mirafi 160N (or equivalent) will be placed over the completed subgrade. Following the placement of the demarcation layer, the final Site cover will be placed in accordance with the URP.

Attachment F

NYSDEC WQC Modification

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Permits, Region 5
1115 State Route 86, PO Box 296, Ray Brook, NY 12977-0296
P: (518) 897-1234 | F: (518) 897-1394
www.dec.ny.gov

June 23, 2023

Avangrid Service Company
Attn: Mark Castro
180 Marsh Hill Rd
Orange, CT 06477
Mark_castro@avangrid.com

RE: DEC #5-0913-00009/00009
NYS Electric & Gas Coal Tar Remediation Site – Saranac River
Upland Site Restoration Plan, OU-1
Plattsburgh (T) Clinton Co.

Dear Mr. Castro:

This is in response to an e-mail correspondence dated April 5, 2023, from your consultant Joe Bistrovich of Arcadis of New York, Inc., which was received in my office on May 5, 2023. The submission contained an Upland Site Restoration Plan at the Plattsburgh Saranac Street Former MGP Site OU-1 which included a plan to install a stormwater culvert that will outlet to the Saranac River within the previously permitted OU-1 restoration area.

The submitted plan has been reviewed and your Water Quality Certification is hereby modified incorporating the following additional plan into your conformance with plans section:

Plattsburgh (Saranac Street)
Former MGP Site Operating Unit 1
Upland Restoration Plan
Dated: April 2023
Prepared by: Arcadis of New York, Inc.

This letter constitutes a modification of the original permit and as such is incorporated into the original permit. All original permit conditions remain in effect for the duration of this permit term.

If you have any questions regarding any aspect of this permit, please contact Rob Fiorentino of our Regional Fisheries office at (518) 623-1200.

Sincerely,

Erin L. Burns
Regional Permit Administrator

Encl.
ec: R. Savarie, DEC Remediation
B. Huyck, DEC Remediation
R. Fiorentino, DEC Fisheries
M. Neely, DEC Ecosystem Health
M.J. Crance, DEC Ecosystem Health
K. Pochini, DEC Ecosystem Health
R. Loftfield, ACOE
T. Blazicek, NYSEG
R. Davies, Clinton Co. DOH
J. Bistrovich, ARCADIS
K. Farrington, City of Plattsburgh

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Permits, Region 5
1115 State Route 86, PO Box 296, Ray Brook, NY 12977-0296
P: (518) 897-1234 | F: (518) 897-1394
www.dec.ny.gov

March 12, 2021

NYS Electric & Gas Corporation
ATTN: Tracy Blazicek
18 Link Drive, PO Box 5224
Binghamton, NY 13902-5224

RE: DEC #5-0913-00009/00009
NYSEG (Saranac Street) Former MGP Site – Saranac River
Riverbed and Bank Restoration of OU-1
Plattsburgh (C) Clinton Co.

Dear Mr. Blazicek:

Enclosed is your Water Quality Certification for the above-referenced project, issued pursuant to Section 401(a)(1) of the Clean Water Act.

If you have any questions regarding any aspect of this permit, please contact Rob Streeter of our Regional Water Quality staff at (518) 897-1241.

Sincerely,

Erin L. Burns

Erin L. Burns
Deputy Regional Permit Administrator

Encl.
ec: R. Streeter, DEC Water
W. Bennett, DEC Remediation
B. Huyck, DEC Remediation
T. Shanahan, DEC Fisheries
R. Fiorentino, DEC Fisheries
J. Pinheiro, DEC Bureau of Ecosystem Health
M.J. Crance, DEC Bureau of Ecosystem Health
K. Pochini, DEC Bureau of Ecosystem Health
J. Connell, ACOE
R. Davies, Clinton Co. DOH
J. Golubski, ARCADIS
M. Miller, City of Plattsburgh

NOTICE OF INTENT TO INITIATE PROJECT CONSTRUCTION

NOTE: This notice must be mailed or faxed to the appropriate Department of Environmental Conservation Office listed below. Notice must be received by the Department at least 48 hours prior to initiation of construction activities.

The following information is to be filled out by DEC:

DEC Permit # 5-0913-00009/00009
Permittee Name: NYSEG ATTN: Tracy L. Blazicek
PO Box 5224, Binghamton, NY 13902-5224
(585) 484-6839

The following information must be completed by the Permittee:

I plan on initiating work on my project on _____
month/day/year

My contractor is: _____

Address: _____

_____

Telephone: _____

Please mail or FAX this form prior to initiating project to:

_X_ NYSDEC
Natural Resources Office
PO Box 296, Route 86
Ray Brook, NY 12977-0296

(518) 897-1291
(518) 897-1370 FAX

_____ NYSDEC
Natural Resources Office
232 Golf Course Road
Warrensburg, NY 12885-0220

(518) 623-1240
(518) 623-3603 FAX

Or email: erin.burns@dec.ny.gov

95-20-1 (8/87)—9d

New York State
Department of Environmental Conservation

NOTICE

The Department of Environmental Conservation (DEC) has issued permit(s) pursuant to the Environmental Conservation Law for work being conducted at this site. For further information regarding the nature and extent of work approved and any Departmental conditions on it, contact the Regional Permit Administrator listed below. Please refer to the permit number shown when contacting the DEC.

Regional Permit Administrator

Permit Number 5-0913-00009/00009

Expiration Date October 1, 2024

Erin L. Burns

Erin L. Burns
Deputy Regional Permit Administrator

NOTE: This notice is **NOT** a permit

PERMIT

Under the Environmental Conservation Law (ECL)

Permittee and Facility Information

Permit Issued To:
NYS ELECTRIC & GAS CORPORATION
18 LINK DR

PO BOX 5224
BINGHAMTON, NY 13902
(607) 762-8835

Facility:
NYSEG COAL TAR REMEDIATION SITE
2 SARANAC ST|E & S BANK OF SARANAC RIVER
PLATTSBURGH, NY 12901

Facility Location: in PLATTSBURGH in CLINTON COUNTY
Facility Principal Reference Point: NYTM-E: 622.62 NYTM-N: 4950.094
Latitude: 44°41'37.5" Longitude: 73°27'08.8"
Project Location: Saranac River, near Saranac Street
Authorized Activity: This Section 401 Water Quality Certification (WQC) authorizes the following activities, in accordance with the information and plans referenced in Condition Nos. 1 and 2 of this permit:

Riverbed and bank restoration activities in previously disturbed areas as a result of the completed in-river construction activities at a remediation site known as Saranac Street Former MGP Site Operating Unit 1 (OU-1). The project involves the temporary disturbance of approximately 2,000 linear feet of riverbed and bank at OU-1. Temporary armor stone will be removed and replaced with vegetated topsoil or soil choked rip rap and tress, shrubs, live stakes, or/or live whip bundles. Restoration areas are being restored to match pre-construction conditions/elevations in accordance with restoration plan. Temporary concrete blocks or jersey barriers will be placed in the river to divert flows away from the inundated planting areas during restoration. A maximum of 300 linear feet of temporary controls (approx 300 cu yds) will be placed in the river at any one time, and will be relocated as restoration activities progress downstream. All work shall be performed in accordance with approved plans attached to and made part of this permit.

Note: Wherever used in this permit, ECL refers to New York State Environmental Conservation Law and 6 NYCRR refers to Title 6 of the New York Code, Rules, and Regulations.

Permit Authorizations

Water Quality Certification - Under Section 401 - Clean Water Act
Permit ID 5-0913-00009/00009

New Permit Effective Date: 3/12/2021 Expiration Date: 10/01/2024

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NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: ERIN L BURNS, Deputy Regional Permit Administrator
Address: NYSDEC Region 5 Headquarters
1115 NYS ROUTE 86
PO BOX 296
RAY BROOK, NY 12977 -0296

Authorized Signature: Erin L. Burns Date 03 / 12 / 2021

Permit Components

NATURAL RESOURCE PERMIT CONDITIONS

WATER QUALITY CERTIFICATION SPECIFIC CONDITION

GENERAL CONDITIONS, APPLY TO ALL AUTHORIZED PERMITS

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

NATURAL RESOURCE PERMIT CONDITIONS - Apply to the Following Permits: WATER QUALITY CERTIFICATION

1. **Conformance With Plans** All activities authorized by this permit must be in strict conformance with the approved plans submitted by the applicant or applicant's agent as part of the permit application. Such approved plans were prepared by the permittee or their representative(s) and are identified in condition no. 2, which includes the relevant water quality standards and explanation for the condition..

2. **Conformance with Plans List** All activities authorized by this permit must be in strict conformance with the approved plans submitted by the applicant or applicant's agent as part of the permit application. Such approved plans include the following:

	Document	Description and Date
a.	Riverbed and Bank Restoration Plan	Riverbed and Bank Restoration Plan, Plattsburgh (Saranac Street) Former MGP Site, Operating Unit 1, Site No 5-10-007, dated November 2019, prepared by Arcadis of New York, Inc.
b.	DEC Plan Approval Letter	NYSDEC's October 11, 2019 letter from William Bennett to NYSEG approving restoration plans with modifications, which were incorporated into final plans (above).

Water Quality Requirements: 6 NYCRR 608.9 Discharges prohibited without certification.

Explanation: This condition is necessary to identify what discharges are authorized by the certification. Any discharge not identified in the referenced plans is prohibited.

3. **Precautions Against Contamination of Waters** All necessary precautions shall be taken to preclude contamination of any wetland or waterway by suspended solids, sediments, fuels, solvents, lubricants, epoxy coatings, paints, concrete, leachate or any other environmentally deleterious materials associated with the project.

4. **Precaution Against Contamination of Waters - Custom** All necessary precautions shall be taken to preclude contamination of any wetland or waterway by suspended solids, sediments, fuels, solvents, lubricants, epoxy coatings, paints, concrete, leachate or any other environmentally deleterious materials associated with the project.

Water Quality Standards: 6 NYCRR 703.2. Narrative water quality standards related to turbidity, suspended solids, toxic substances, color, and other deleterious subtances.

Explantion: This condition is necessary to ensure that the permittee undertakes whatever additional measures are necessary, and not otherwise specified in the conditions of this permit, to prevent the contravention of water quality standards during the implemenation of the project.

5. **Prohibition Period for Trout** All instream work, as well as any work that may result in the suspension of sediment, is prohibited during the trout spawning and incubation period commencing October 1 and ending April 30. A one-time extension has been granted for March 15-April 30 for the years 2021 and 2022.

Water Quality Standards: 6 NYCRR 703.2: Narrative water quality standards for turbidity, toxic materials, and other deleterious substances. 6 NYCRR 701: Classification of surface waters and identification of best usages.

Explanation: This condition is necessary to ensure that the discharge does not adversely impact water quality during sensitive fish spawning periods and contravene water quality standards or impair the waters best usages for fish propogation or fish survival.

6. **No Work During High Flow** No in-stream work shall occur during periods of high flow, except for work that occurs in dewatered areas behind temporary diversions, cofferdams or causeways, to unplug culverts and bridges, or to install temporary culverts or bridges for emergency access.

Water Quality Standards: 6 NYCRR 703.2: Narrative water quality standards for turbidity, suspended solids, and other deleterious substances.

Explanation: This condition is necessary to ensure that erosion and stream bank scouring are minimized during project construction and that potential for the contravention of water quality standards is minimized.

7. **Water Clarity** Stream reaches downstream of construction areas shall always remain as clear (non-turbid) as the reaches upstream of the construction areas.

Water Quality Standards: 6 NYCRR 703.2: Narrative water quality standards related to turbidity, suspended solids, and other deleterious substances.

Explanation: This condition is necessary to ensure that the project does not violate water quality standards related to turbdity.

8. **Install and Maintain Erosion Controls** Appropriate soil erosion and sediment controls (such as silt fences, turbidity curtains, straw bales, and other appropriate measures) shall be installed, used, and maintained in effective operating condition during all work. Controls shall be installed prior to ground disturbance, inspected periodically to ensure that they are not damaged, repaired promptly when needed, and remain in place until the site is stabilized by the regrowth of suitable vegetation. Erosion controls shall be removed after the site is stabilized by the regrowth of suitable vegetation.

Water Quality Standards: 6 NYCRR 703.2: Narrative water quality standards for turbidity, suspended solids, and other deleterious substances.

Explanation: This condition is necessary to ensure that upland erosion is minimized and contained during project construction, preventing contravention of the water quality standards.

9. **Construction Access** Construction access shall be by means that avoid aquatic sites, unless specifically authorized on the approved plans.

Water Quality Standards: 6 NYCRR 608.9 Discharges prohibited without certification.

Explanation: This condition is necessary to ensure that the operation of construction equipment does not result in long-term or permanent alteration of waters, creating a discharge beyond the scope of the authorized discharge.

10. **Temporary Work Areas** Temporary causeways and work pads within regulated waters shall be constructed within the confines of a water control structure and shall consist of clean non-erodible material such as stone, timber, or steel. The temporary causeways and work pads shall not be installed until the water control structure is in place and the area has been completely dewatered and shall be removed prior to removal of the water control structure. Equipment staging and lay down areas shall not be located in wetlands, unless specifically authorized on the approved plans.

Water Quality Standards: 6 NYCRR 608.9: Discharges prohibited without certification. 6 NYCRR 703.2: Narrative water quality standardsrelated to turbidity, suspended solids, toxic subtances, and other deleterious substances.

Explanation: This condition is necessary to ensure that the construction of temporary work pads and staging areas do not result in long-term or permanent alteration of waters, creating a discharge beyond the scope of the authorized discharge, or result in a contravention of water quality standards.

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11. Clean Fill Only All fill shall consist of clean soil, sand and/or gravel that is free of the following substances: asphalt, slag, flyash, broken concrete, demolition debris, garbage, household refuse, tires, woody materials including tree or landscape debris, and metal objects. The introduction of materials toxic to aquatic life is expressly prohibited.

Water Quality Standards: 6 NYCRR 703.2: Narrative water quality standards related to turbidity, suspended solids, garbage, cinders, ashes, oils, sludge, other refuse, toxic substances, and other deleterious substances.

Explanation: This condition is necessary to ensure that there are no unauthorized materials are discharged, and that those authorized materials do not contain any other materials that are toxic to aquatic life and, thereby, contravene water quality standards.

12. Work from Land Whenever feasible, bank grading and in-water removal or installation of material shall be carried out by land-based equipment rather than from the stream or riverbed or within flowing water. Generally, work shall proceed from the downstream end to the upstream end of the project reach, unless specifically authorized on the approved plans.

Water Quality Standards: 6 NYCRR 608.9: Discharges prohibited without certification. 6 NYCRR 703.2: Narrative water quality standards related to turbidy, suspended solids, and other deleterious substances.

Explanation: This condition is necessary to ensure that the operation of construction equipment does not result in unauthorized discharges. It is also necessary to ensure that construction of the project within flowing water is minimized to the exent practicable, avoiding a contravention of water quality standards.

13. Heavy Equipment Heavy equipment working in wetlands must be placed on equipment mats, or other measures must be taken to minimize soil disturbance and compaction to the maximum extent practicable.

Water Quality Standards: 6 NYCRR 608.9 Discharges prohibited without certification.

Explanation: This condition is necessary to ensure that the operation of heavy equipment does not result in long-term or permanent alteration of waters, creating a discharge beyond the scope of the authorized discharge.

14. Equipment Cleaning To prevent turbid discharges and the potential introduction of invasive species into regulated waters from other areas, all equipment used in any project work area involving regulated waters will be inspected for, and cleaned of, any visible soils, vegetation, and debris before being used in regulated waters.

Water Quality Standards: 6 NYCRR 703.2: Narrative water quality standards related to turbidity, suspended solids and other deleterious substances.

Explanation: This condition is necessary to ensure that equipment used will not contribute to a contravention of water quality standards.

15. Temporary Dewatering Structures Where temporary dewatering is required or specified on the approved plans, temporary dewatering measures shall comply with the following:

a. Temporary dewatering structures shall be constructed of clean material such as prefabricated impervious dikes/berms or sandbags. If stone is used, it shall be protected from erosion by plastic liners or filter fabric.

b. Waters accumulated in isolated work areas shall be discharged to an upland settling basin or well vegetated area to provide for settling and filtering of solids and sediments. Return waters shall be as clear as the flowing water upstream of the work area.

c. Temporary dewatering structures, including any plastic liners or filter fabric, and associated fill shall be completely removed, and the affected waters restored, immediately following the completion of work.

d. To the maximum extent practicable, any fish trapped within the work area shall be netted and placed, alive and unharmed, in the water outside the work area.

Water Quality Standards: 6 NYCRR 703.2: Narrative water quality standards for turbidity, flow, suspended solids, and other deleterious substances. ECL 11-1301(4): Requires fish unintentionally taken to be returned to water without uneccessary injury.

Explanation: This condition is necessary to ensure that dewatering discharges from the work area do not result in erosion, fish kills, and contravention of the water quality standards.

16. Stockpiles Fill or other excavated materials shall not be stockpiled in a manner conducive to erosion, or in areas with the potential to cause turbid runoff during storm events. Mats or geotextile fabric shall be placed under any temporary fill or stockpile and shall be removed following construction.

Water Quality Standards: 6 NYCRR 703.2: Narrative water quality standards for turbidity, suspended solids, and other deleterious substances.

Explanation: This condition is necessary to ensure that erosion from stockpiled materials is minimized and contained during project construction, preventing contravention of the water quality standards.

17. Concrete leachate During construction no fresh or wet concrete or leachate shall be allowed to escape into any wetland or water of New York State, nor shall washings from ready-mix concrete trucks, mixers, or other devices be allowed to enter any waters or wetlands. Wet concrete shall not be poured to displace water within the forms. Leakage from forms must be prevented from entering any wetland or water of New York State.

Water Quality Standards: 6 NYCRR 703.2: Narrative water quality standards for turbidity, suspended solids, toxic substances and other deleterious substances.

Explanation: This condition is necessary to ensure that concrete, concrete leachate and other materials contaminated by concrete, which are toxic to aquatic life, are contained during project construction, preventing contravention of the water quality standards.

18. Seed and Mulch Streambanks and Work Areas Within one week of final grading, all areas of soil disturbance from this project shall be seeded with an appropriate perennial grass seed and mulched with hay or straw, unless hydroseeded.. Mulch shall be maintained until a suitable vegetative cover is established. If seeding is impracticable due to the time of year, a temporary mulch shall be applied and final seeding shall be performed at the earliest opportunity when weather conditions favor germination and growth, but not more than six months after project completion.

Water Quality Standards: 6 NYCRR 703.2: Narrative water quality standards for turbidity, suspended solids, and other deleterious substances.

Explanation: This condition is necessary to ensure that upland erosion is minimized after construction is completed, preventing contravention of the water quality standards.

19. State May Order Removal or Alteration of Work If future operations by the State of New York require an alteration in the position of the structure or work herein authorized, or if, in the opinion of the Department of Environmental Conservation it shall cause unreasonable obstruction to the free navigation of said waters or flood flows or endanger the health, safety or welfare of the people of the State, or cause loss or destruction of the natural resources of the State, the owner may be ordered by the Department to remove or alter the structural work, obstructions, or hazards caused thereby without expense to the State, and if, upon the expiration or revocation of this permit, the structure, fill, excavation, or other modification of the watercourse hereby authorized shall not be completed, the owners, shall, without expense to the State, and to such extent and in such time and manner as the Department of Environmental Conservation may require, remove all or any portion of the uncompleted structure or fill and restore to its former condition the navigable and flood capacity of the watercourse. No claim shall be made against the State of New York on account of any such removal or alteration.

20. State May Require Site Restoration If upon the expiration or revocation of this permit, the project hereby authorized has not been completed, the applicant shall, without expense to the State, and to such extent and in such time and manner as the Department of Environmental Conservation may lawfully require, remove all or any portion of the uncompleted structure or fill and restore the site to its former condition. No claim shall be made against the State of New York on account of any such removal or alteration.

21. State Not Liable for Damage The State of New York shall in no case be liable for any damage or injury to the structure or work herein authorized which may be caused by or result from future operations undertaken by the State for the conservation or improvement of navigation, or for other purposes, and no claim or right to compensation shall accrue from any such damage.

WATER QUALITY CERTIFICATION SPECIFIC CONDITIONS

1. Water Quality Certification The authorized project, as conditioned pursuant to the Certificate, complies with Section 301, 302, 303, 306, and 307 of the Federal Water Pollution Control Act, as amended and as implemented by the limitations, standards, and criteria of state statutory and regulatory

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requirements set forth in 6 NYCRR Section 608.9(a). The authorized project, as conditioned, will also comply with applicable New York State water quality standards, including but not limited to effluent limitations, best usages and thermal discharge criteria, as applicable, as set forth in 6 NYCRR Parts 701, 702, 703, and 704.

GENERAL CONDITIONS - Apply to ALL Authorized Permits:

1. **Facility Inspection by The Department** The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71- 0301 and SAPA 401(3).

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

2. **Relationship of this Permit to Other Department Orders and Determinations** Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

3. **Applications For Permit Renewals, Modifications or Transfers** The permittee must submit a separate written application to the Department for permit renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing. Submission of applications for permit renewal, modification or transfer are to be submitted to:

Regional Permit Administrator
NYSDEC Region 5 Headquarters
1115 NYS ROUTE 86
PO BOX 296
RAY BROOK, NY 12977 -0296

4. **Submission of Renewal Application** The permittee must submit a renewal application at least 30 days before permit expiration for the following permit authorizations: Water Quality Certification.

5. **Permit Modifications, Suspensions and Revocations by the Department** The Department reserves the right to exercise all available authority to modify, suspend or revoke this permit. The grounds for modification, suspension or revocation include:

a. materially false or inaccurate statements in the permit application or supporting papers;

b. failure by the permittee to comply with any terms or conditions of the permit;

c. exceeding the scope of the project as described in the permit application;

d. newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;

e. noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

6. **Permit Transfer** Permits are transferrable unless specifically prohibited by statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification
The permittee, excepting state or federal agencies, expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under Article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit
The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits
The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights
This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

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