

Construction Stormwater Pollution Control Plan

Southeastern Connecticut Regional
Resources Recovery Authority
132 Route 12
Preston, Connecticut 06365

SCS ENGINEERS

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1 SITE DESCRIPTION

Southeastern Connecticut Regional Resources Recovery Authority (SCRRA) plans to construct a commercial scale aerated static pile food composting facility. The proposed facility will be the first and only large-scale aerobic food waste composting facility in southeastern Connecticut, fulfilling an infrastructure need in a historically underserved region. This document presents the Stormwater Pollution Control Plan (SPCP) prepared in accordance with CTDEEP's General Permit for the Discharge and Dewatering Wastewaters from Construction Activities – General Permit CTR100000 (Appendix A).

The project site (the site) is currently undeveloped and is lightly forested with some grassland. The lot is owned by SCRRA and is 33.67 acres in total. A significant portion of the lot is leased to American Ref-fuel Company (i.e., Covanta waste-to-energy facility). The compost facility will be located south of Brewster Road and will occupy about 7.5 acres. The area for the facility will be cleared, partially paved, and concrete composting bunkers will be installed along with a receiving building, scale, retention pond, etc. The current conditions of the project area are shown in Drawing G2 in Appendix B.

The estimated impervious area of the site after construction is 78.55%. The average runoff coefficient of the site after construction is completed is 0.76. Calculations are included in Appendix C. Sanitary wastewater from a single bathroom in the scalehouse will connect to an existing sanitary sewer system in Brewster Road.

The site topography slopes slightly to the north and stormwater flow direction is anticipated to be to the north. Stormwater will initially flow into a temporary sediment basin, which will be converted into a stormwater pond upon completion of the project. Most stormwater will be recycled into the composting process. Excess stormwater will flow into an existing recharge basin, which is how stormwater is managed currently. There are no waterbodies on the property. The ultimate receiving waterbody is presumably the Thames River, after stormwater infiltrates into the soil underlying the recharge basin. The Thames River is not listed in the Wild and Scenic Rivers system. The site is underlain by Windsor loamy sand and Hinckley loamy sand, 0 to 3 percent slopes. Soil information is included in the supporting figures provided in Appendix D.

There are no wetlands or floodplains mapped at the site (Appendix E). A letter dated November 17, 2023 confirms that there are no wetlands at the site (Appendix F). Note that the letter names “122 Route 12” instead of the site address, 132 Route 12; this is believed to be a typographical error.

The site is located within a Coastal Area (Appendix E) and an application was submitted to the Town of Preston. Approval from the Town of Preston Planning and Zoning Commission is included in Appendix F.

Mining operations are not performed at the property. There are no federally recognized Indian lands on the property. The property is not mapped within an aquifer protection area. There are no historic and/or archeological resources mapped at the property. There are no conservation or preservation restrictions mapped at the property.

There are no endangered species mapped within the project area (Appendix E); however, there is a portion of the greater tax parcel that is mapped with endangered species. A Natural Diversity Data Base (NDDDB) determination was requested and received from the CTDEEP. The response indicated that the big sand tiger beetle may be located near the project area, and it was recommended that

SCRRRA seek help from a biologist (Appendix F). The State Invertebrate Biologist, Laura Saucier conducted a site visit on September 5, 2024 and no modifications were required to the construction plans.

Construction activities will be performed in accordance with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control. A set of drawings including pre-construction conditions, erosion and sediment controls during construction, and post-construction conditions is provided in Appendix B.

PROJECT TEAM

The project team is as follows:

Personnel	Title	Company	Contact No.
David Aldridge	Executive Director	SCRRRA	860-381-5558
Winston Averill	Regional Recycling Coordinator	SCRRRA	860-381-5558
Gregory P. McCarron, PE	Project Director (SCS) Professional Engineer (PE)	SCS Engineers	914-588-1368
Christine Stokes	Project Manager (SCS)	SCS Engineers	845-661-4970
Construction Contractor	TBD	TBD	TBD

2 CONSTRUCTION SEQUENCING

Construction is scheduled to commence in Spring 2026. The following is a summary of the sequence of construction for the project:

Action/Phase	Estimated Start	Estimated Completion	Description
Silt Fence and Construction Entrance	May 2026	May 2026	A survey will be conducted to identify the extents of disturbance. A silt fence will be placed around the site. A construction entrance will be made of filter fabric and clean stone.
Sediment Basin	June 2026	June 2026	Vegetation will be cleared in the planned area of the sediment basin, and the basin will be graded. The slopes will be covered with geomembrane and a riser will be installed.
Other Erosion and Stormwater Controls	July 2026	July 2026	The remaining vegetated areas will be cleared to the total extent of disturbance. The remaining stormwater control measures will be installed. These include one catch basin, two diversion ditches/stone check dams, riprap protection, erosion control mats, and temporary seeding. Partial grading of the site will also occur at this time.
Building Construction	August 2026	September 2026	The receiving and mixing building will be constructed, including a new concrete foundation.
Asphalt and Asphalt Millings	October 2026	October 2026	Asphalt pavement will be installed to cover the roadways, the 50' apron outside the receiving and mixing building, and the sales stockpile area. The remaining area of the site will be covered in asphalt millings.

The set of drawings (Appendix B) shows the location and details of the construction area, including the location of the erosion and sediment control measures.

3 POLLUTANTS OF CONCERN AND OTHER CONTROLS

Pollutants of concern include sediments and oil and grease from equipment. Sediments will be addressed with the planned control measures described in the next section. Spill kits will be maintained during construction activities to address incidental releases of oil and grease from equipment and incoming/outgoing trucks.

It is anticipated that a fuel delivery service will fuel equipment as needed and the fueling company is responsible for addressing releases in connection with fuel delivery.

Dust and sediment tracking will be addressed via a water truck and the construction entrance, respectively. Mud and dirt which cannot be removed will be washed off prior to trucks going out on the roadway. Wash waters will be directed to the ditch.

4 CONTROL MEASURES

EROSION AND SEDIMENT CONTROL MEASURES

Erosion and sediment control measures will be implemented according to the Connecticut Guidelines for Soil Erosion and Sediment Control. The permit set includes details of each erosion and sediment control measure and is included in Appendix B.

Before construction activities commence, a silt fence will be installed around the construction site, which will minimize the displacement of sediment throughout the project activities. Then, a stabilized construction entrance will be constructed of filter fabric and clean stone to minimize off-site tracking. Existing vegetation within the site will be cleared and grubbed as construction progresses.

A sediment basin will be constructed at the northern extent of the construction site. Stormwater flow direction will be to the north. Geomembrane will be applied to the slopes of the sediment basin. A riser outlet structure will be installed; the outlet will connect to an existing perforated metal pipe that discharges to an existing recharge basin north of the site.

Following the construction of the sediment basin, clearing and grubbing of the remaining vegetation will be completed. Site work and grading will commence, including the installation of storm drains and drainage features. One catch basin will be installed at the northeast corner. Silt fence will be installed around each catch basin to decrease sediment flow into the catch basins.

Two diversion ditches will be constructed across the site; One will be located at the eastern perimeter of the site, and one will be located in the northwestern area of the site. Erosion control matting and temporary seed will be applied on the slopes of each ditch. Stone check dams will be added to these ditches, which will decrease flow velocity and sediment displacement of stormwater run-on to the site.

Riprap outlet protection will be re-installed around existing pipe outlets, if necessary. Areas that will not be disturbed again for 30 days will receive temporary seeding within 14 days, or if at final grade, permanent seeding.

Following the completion of the construction, temporary erosion and sediment controls will be removed, including the silt fence.

The following table summarizes the details of each erosion and sediment control included in the permit set (Appendix B):

Erosion & Sediment Control	Sheet Number	Detail Number
Temporary Construction Entrance	C16	1
Geotextile Silt Fence	C16	2
Stone Check Dam	C16	3
Diversion Ditch	C16	4
Riprap Stabilization	C16	5
Non-traffic Catch Basin Inlet	C16	6
Screening Berm	C17	3
Erosion Control Matting	C17	4
Sediment Basin	C3, C7, C15	all
Contact Water Tank	C20	1
Contact Water Sump	C20	5

RUNOFF REDUCTION AND LOW IMPACT DEVELOPMENT INFORMATION

The temporary sediment basin will be converted to a stormwater detention pond following construction activities, and it will work as a runoff reduction measure. Calculations supporting the construction details of the sediment basin are included in Appendix C. Most stormwater will be recycled into the composting process. Excess stormwater will flow into an existing recharge basin, which is how stormwater is managed currently. Excess stormwater will infiltrate into the soil underlying the recharge basin.

Further, compost contact water will be collected in a sump located between the windrows and the stormwater detention pond. Contact water will be pumped and stored in a 12,500-gallon above-ground storage tank to the southeast of the receiving and mixing building. The maintenance of the stormwater detention pond and contact water sump and tank is discussed in Section 4. The areas suitable for infiltration are south of the windrows and will be vegetated, and areas disturbed during construction activities to the east and west will also be re-vegetated.

IMPAIRED WATERS

There are no discharges to waterbodies listed in the Impaired Waters Table for Construction Stormwater Discharges.

5 POST-CONSTRUCTION STORMWATER CONTROLS

The estimated post-construction drainage area is 5.8 acres. Because this construction project qualifies as “Other Development,” according to the General Permit, the water quality volume must be retained for the site.

The site will be graded so that it slopes gently to the north. Various erosion and sediment control measures implemented during construction will be left in place as post-construction stormwater controls.

The temporary sediment basin will be converted into a permanent stormwater detention pond. At the end of the construction, accumulated sediment and the temporary baffle will be removed, and the slopes will be re-seeded as necessary.

Most stormwater, detained in the stormwater pond, will be recycled into the composting process. Excess stormwater will flow into an existing recharge basin, which is how stormwater is managed currently. Excess stormwater will infiltrate into the soil underlying the recharge basin. Sediment in the stormwater pond will be cleaned out regularly.

The water quality volume will be detained by the stormwater detention pond. Calculations supporting the construction details of the stormwater detention pond are included in Appendix C. Riprap outlet protection will also stay in place. Remaining unpaved areas will be seeded as necessary, and slopes will be stabilized as necessary.

6 MAINTENANCE AND INSPECTIONS

Regular maintenance and inspections will occur according to the Connecticut Stormwater Quality Manual and Connecticut Guidelines for Erosion and Sediment Control. Inspection checklists are provided in Appendix G. Inspections will be conducted by qualified professionals, as defined in the General Permit. Each inspector's qualifications are included in Appendix H.

The Plan Implementation Inspection will be conducted by the designing qualified professional during the initial phase of construction (i.e., following the installation of as erosion and sediment control measures). The inspection report must be submitted to the Commissioner to confirm compliance with the general permit. The inspection includes a comprehensive visual check of the following:

- Temporary Construction Entrance
- Geotextile Silt Fence
- Stone Check Dam
- Diversion Ditch
- Riprap Stabilization
- Non-traffic Catch Basin Inlet

Routine Inspections will be conducted weekly. Routine inspections include a comprehensive visual check of each erosion and sediment control measure for evidence of the following:

- Accumulation of sediment or debris at inlet and outlet structures
- Erosion, settlement, or slope failure
- Clogging or buildup of fines on infiltration surfaces
- Vegetative stress and appropriate water levels for emergent vegetation
- Algae growth, stagnant pools, or noxious odors
- Deterioration of pipes or conduits
- Seepage at the toe of ponds
- Deterioration or sedimentation in downstream channels and energy dissipators
- Evidence of vandalism
- Evidence of structural damage by beavers, muskrats, and other wildlife

Non-routine inspections are also necessary following a storm event that generates a discharge. Inspections must be conducted within 24 hours of the end of a storm. For storms that end after which normal working hours will not commence within 24 hours, inspection is still required within 24 hours for storms that exceed 0.5-inch. Inspections that follow storms of less than 0.5-inch may be conducted when normal working hours commence. Inspections should assess the same measures as a routine inspection.

Routine maintenance will be performed as necessary and may include the following:

- Debris and litter removal
- Silt and sediment removal
- Terrestrial vegetation maintenance
- Aquatic vegetation maintenance
- Maintenance of mechanical components (valves, gates, access hatches, locks)

Non-routine maintenance may also be necessary and can include erosion and structural repair, sediment disposal, and nuisance control (odors, mosquitos, weeds).

A Termination Inspection will be conducted following the conclusion of all construction activities. The Termination Inspection will include a comprehensive visual inspection of the following:

- Stone Check Dam
- Diversion Ditch
- Riprap Stabilization
- Non-traffic Catch Basin Inlet
- Asphalt Millings
- Asphalt Pavement
- Erosion Control Matting
- Sediment Basin

Maintenance of erosion and sediment control measures should continue post-construction to keep structures in good working condition and maintain Best Management Practices (BMPs).

7 REGISTRANT CERTIFICATION

I hereby certify that I am making this certification in connection with a registration under such general permit, submitted to the commissioner by Southeastern Connecticut Regional Resources Recovery Authority for an activity located at 132 Route 12 Preston, Connecticut and that all terms and conditions of the general permit are being met for all discharges which have been initiated and such activity is eligible for authorization under such permit. I further certify that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I certify that the registration filed pursuant to this general permit is on complete and accurate forms as prescribed by the commissioner without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(b)(8)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify that I have made an affirmative determination in accordance with Section 3(b)(8)(B) of this general permit. I understand that the registration filed in connection with such general permit is submitted in accordance with and shall comply with the requirements of Section 22a-430b of Connecticut General Statutes. I also understand that knowingly making any false statement made in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law.

Southeastern Connecticut Regional Resources Recovery Authority

Name: David Aldridge

Title: Executive Director

Signature:  _____

Date: March 27, 2026

8 PROFESSIONAL ENGINEER CERTIFICATION

I hereby certify that I am a professional engineer licensed in the State of Connecticut. I am making this certification in connection with a registration under such general permit, submitted to the commissioner by Southeastern Connecticut Regional Resources Recovery Authority for an activity located at 132 Route 12 Preston, Connecticut. I certify that I have thoroughly and completely reviewed the Stormwater Pollution Control Plan for the project or activity covered by this certification. I further certify, based on such review and on the standard of care for such projects, that the Stormwater Pollution Control Plan has been prepared in accordance with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, the Stormwater Quality Manual, as amended, and the conditions of the general permit, and that the controls required for such Plan are appropriate for the site. I further certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I also understand that knowingly making any false statement in this certification may subject me to sanction by the Department and/or be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law.

SCS Engineers

Name: Gregory P. McCarron, PE

Title: Project Director



Signature: _____

Date: March 27, 2026

9 CONTRACTORS CERTIFICATION

A contractor has not yet been selected for the project. The bid package is out for the project with bids due on April 8, 2026. Once selected, this Plan will be updated accordingly and a certification completed by the selected firm.

10 SPCP MODIFICATIONS

This SPCP must be modified when there is a change in design, construction, operation, or maintenance at the facility which may have an effect on the potential for the discharge of pollutants from the facility which have not been addressed in the SPCP; when the SPCP is found to be ineffective in eliminating or significantly minimizing pollutants from sources identified or not achieving the goals of the permits; or, when there is a corrective action requiring modification of the SPCP. Corrective action documentation is included in Appendix I.

SPCP modifications will include a map or description of the area as required; modification to stormwater controls with the corrective action needed; and, the additional inspections monitoring and/or analysis required. A log containing the data and signature of the person doing the modifications is included in Appendix J. As described previously, and regardless of the requirements for corrective action modification, the SPCP should also be reviewed and signed by a member of the team.

Name and Date

Name and Date

Name and Date

Name and Date

Name and Date

Appendix A

General Permit (CTR100000)



National Pollutant Discharge Elimination System General Permit for the Discharge of Stormwater from Construction Activities

Permit No.: CTR100000

This National Pollutant Discharge Elimination System *General Permit for the Discharge of Stormwater from Construction Activities* is issued in accordance with Section 22a-430 of Chapter 446k, Connecticut General Statutes (“Conn. Gen. Stat.”), and Regulations of Connecticut State Agencies (“Regs. Conn. State Agencies”) adopted thereunder, as amended, and Section 402(b) of the Clean Water Act (“CWA”), as amended, 33 USC 1251, et. seq., and pursuant to an approval dated September 26, 1973, by the Administrator of the United States Environmental Protection Agency for the State of Connecticut to administer a NPDES permit program. Persons shall comply with all conditions of this permit.

This permit becomes effective January 1, 2026. This permit and the authorization to discharge shall expire sixty (60) months (five (5) years) from the effective date. This permit expires on December 31, 2030.

Issued: January 1, 2026

Emma Cimino
Deputy Commissioner

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General Permit for the Discharge of Stormwater from Construction Activities

Section 1 Authority

This general permit is issued under the authority of Section 22a-430b of the Connecticut General Statutes (“Conn. Gen. Stat.”).

Section 2 Authorization Under This General Permit

2.1 Eligible Activities

This general permit authorizes the discharge of stormwater from construction activities, as defined in this general permit as “any activity and discharges associated with construction at a site or the site’s preparation for construction including, but not limited to, clearing, grubbing, pile driving, soil disturbance, soil compaction by construction equipment, staging and stockpiling, storage, cleaning and washout, grading, excavation, and dewatering,” with a total disturbance of one (1) or more acres of land area for the entire project regardless of project phasing to waters of the State of Connecticut provided the requirements of this section are satisfied and the activity is conducted in accordance with this permit.

In the case of a larger plan of development (such as a subdivision), the estimate of total acres of site disturbance shall include, but is not limited to, road and utility construction, individual lot construction (e.g. house, driveway, septic system, etc.), and all other construction associated with the overall plan, regardless of the individual parties responsible for construction of these various elements.

2.1.1 Allowable non-stormwater discharges

The following non-stormwater discharges associated with the construction activity are authorized under this permit provided that, with the exception of water used to control dust and to irrigate vegetation in stabilized areas, these discharges are not routed to areas of exposed soil on the site, are included in the Stormwater Pollution Control Plan, and the Permittee complies with the applicable requirements of Section 5.2:

- uncontaminated discharges from construction dewatering operations in accordance with requirements of Section 5.2.2.8.
- uncontaminated and non-turbid discharges from natural springs or naturally occurring groundwater.
- foundation or footing drains where flows are not contaminated with process materials such as solvents or contaminated ground water.
- discharges from emergency fire-fighting activities.
- landscape irrigation.
- water used to control dust.
- potable water including uncontaminated water line or fire hydrant flushing.
- uncontaminated air conditioning or compressor condensate.

All other non-stormwater discharges except those specifically listed are not authorized by this permit. Such discharges to surface water must be authorized under a different permit issued by the Commissioner (pursuant to Section 22a-430 or 22a-430b of the Conn. Gen. Stat.).

2.1.2 Emergency Construction Activity Exception

The general permit authorizes short-term discharges of stormwater from construction activities in response to a public emergency as determined by the Commissioner (e.g., mud slides, earthquake, extreme flooding conditions, widespread disruption in essential public services), when the related work requires immediate authorization to avoid imminent endangerment to human health, public safety, or the environment, or to reestablish essential public services.

2.2 Requirements for Authorization

This general permit authorizes the discharge of stormwater from construction activity and associated discharges listed in the Section 2.1 “Eligible Activities” of this general permit provided the following conditions are met:

2.2.1 Limitations of Coverage

2.2.1.1 Prohibited discharges

The following discharges are prohibited:

- wastewater from washout of concrete, unless managed in accordance with Section 5.2.2.11.b of this general permit and the Connecticut Guidelines for Soil Erosion and Sediment Control (“the Guidelines”).
- wastewater from washout and/or cleanout of stucco, paint, form release oils, curing compounds, and other construction materials.
- fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance.
- soaps, solvents, or detergents used in vehicle and equipment washing or external building washdown.
- toxic or hazardous substances from a spill or other release.
- discharges from dewatering activities, including discharges from dewatering of trenches and excavations, are prohibited unless managed by appropriate Control Measures.
- discharges containing or resulting in a visible oil sheen, floating solids, or foam.
- discharge of litter, debris, building materials, hardened concrete waste, or similar materials from the site.
- process wastewater as defined by 40 Code of Federal Regulations (“CFR”) 122.2.
- slurry materials and waste from shaft drilling, including process wastewater from shaft drilling for construction of building, road, and bridge foundations unless managed to prevent discharge to surface water.
- wheel wash wastewater, unless managed in accordance with Section 5.2.2.11.c of this general permit and the Guidelines.
- discharges of water, substance, or material into the waters of the State other than eligible discharges specified in this general permit.
- eligible discharges to publicly or privately owned storm sewers or conveyances without notification being provided to the owner.
- the stormwater discharge resulting from an activity classified by the Standard Industrial Classification 10 and 12 through 14 (the mining industry) is not eligible to be authorized by this general permit and is regulated under the General Permit for the Discharge of Stormwater Associated with Industrial Activity.
- discharges of dewatering waters known to contain pollutants other than sediment.
- discharges of polychlorinated biphenyl (“PCB”) compounds.
- discharges of mercury compounds.

2.2.2 Complete Application

A complete application pursuant to Section 3 of this general permit shall be filed with the Commissioner.

2.2.3 Coastal Management Act

Such construction activity must be consistent with all applicable goals and policies in Section 22a-92 of the Conn. Gen. Stat. and must not cause adverse impacts to coastal resources as defined in Section 22a-93(15) of the Conn. Gen. Stat. Please refer to the Appendix D for additional guidance.

2.2.4 Endangered and Threatened Species

Such construction activity must not threaten the continued existence of any species listed pursuant to Section 26-306 of the Conn. Gen. Stat. as endangered or threatened and must not result in the destruction or adverse modification of habitat designated as essential to such species. See Appendix A for permit terms and conditions.

2.2.5 Aquifer Protection Areas

Such construction activity, if it is located within an aquifer protection area as mapped under Section 22a-354b of the Conn. Gen. Stat., must comply with regulations adopted pursuant to Section 22a-354i of the Conn. Gen. Stat. Please refer to the Appendix C for guidance. For any construction activity regulated pursuant to the Aquifer Protection Regulations in Sections 22a-354i-8(c) and 9(b) of the Regs. Conn. State Agencies, the Stormwater Pollution Control Plan (“SPCP”) must provide sufficient information to assure that stormwater discharge generated from the construction activity is (i) managed in a manner so as to prevent pollution of groundwater, and (ii) complies with all the requirements of this general permit.

2.2.6 Conservation and Preservation Restrictions

Such construction activity, if located within a conservation or preservation restriction area, complies with Section 47-42d of the Conn. Gen. Stat., by providing the following documentation to the Commissioner: proof of written notice to the holder of such restriction of the proposed activity’s application pursuant to this general permit or a letter from the holder of such restriction verifying that the proposed activity is in compliance with the terms of the restriction.

2.2.7 Historic Preservation

Such construction activity, in accordance with the criteria in Appendix G, complies with state Historic Preservation statutes, regulations, and policies including identification of any potential impacts on property listed or eligible for listing on the Connecticut Register of Historic Places. A review conducted for an Army Corps of Engineers Section 404 wetland permit would meet this qualification. Refer to Appendix G for guidance on conducting the required review.

2.2.8 Wild and Scenic Rivers Act

Such construction activity must be consistent with the Wild and Scenic Rivers Act (16 U.S.C. 1271-1287) for those river components and tributaries which have been designated as Wild and Scenic by the United States Congress. Further, such construction activities must not have a direct and adverse effect on the values for which such river designation was established. Please refer to Appendix H for guidance.

2.2.9 Antidegradation

2.2.9.1 New or Increased Discharges to High Quality Waters

Any new or increased discharge of stormwater to a High Quality Water (as identified by the Commissioner consistent with the Water Quality Standards shall be discharged in accordance with the Connecticut Anti-Degradation Implementation Policy in the Water Quality Standards regulation (Section 22a-426 of the Regs. Conn. State Agencies). Before commencing any new or increased discharge, the Permittee must identify in its Stormwater Pollution Control Plan (“SPCP”), the Control

Measures it will implement to ensure compliance with anti-degradation provisions and the terms of this permit. At a minimum, the Permittee shall evaluate and implement measures and practices consistent with Best Available Technology Economically Achievable (“BAT”) that will prevent the discharge of the Water Quality Volume (“WQV”) to a surface water body or other practices necessary to protect and maintain designated uses and meet standards and criteria contained in the Water Quality Standards.

2.2.9.2 Discharges to Impaired Waters

For any portion of the site that discharges stormwater into a waterbody that is listed as impaired for sediment or a sediment-related impairment in the State’s Integrated Water Quality Report as of the effective date of this general permit, the Permittee shall comply with the requirements of Section 5.2.3 of this permit. Additionally, the Commissioner may require new or enhanced Control Measures or outfall monitoring, as necessary to protect instream water quality standards. These Control Measures may include those necessary for the stormwater discharge to be consistent with the assumptions of any available load allocation in any applicable TMDL or Watershed Action Plan.

2.2.9.3 For discharges to other impaired waters or waters with an established TMDL

If the Permittee discharges stormwater into a waterbody that is impaired for a parameter other than a sediment or sediment-related parameter, the Commissioner may inform the Permittee if any additional measures are necessary for the discharge to be controlled as necessary to protect the instream water quality standards. These Control Measures may include those necessary for the discharge to be consistent with the assumptions of any available load allocation in any applicable TMDL or Watershed Action Plan. In addition, the Commissioner may require the Permittee to apply for and obtain coverage under an individual permit.

2.2.10 Cold Water Stream Habitat

Unless otherwise authorized in writing by the Commissioner, a Permittee shall maintain a one-hundred (100) foot buffer of undisturbed soil and well-established vegetation between any construction activity and any stream, river, or tributary that is included within a cold water stream habitat as defined in regulation and accessible on DEEPs website here: <https://portal.ct.gov/DEEP/Water/Inland-Water-Monitoring/Cold-Water-Stream-Habitat-Map>.

2.2.11 Discharge to POTW

The stormwater is not discharged to a privately or Publicly Owned Treatment Works (“POTW”).

2.2.12 Discharge to Groundwater

The stormwater is not discharged entirely to groundwater.

2.2.13 Certification Requirements for Applicants and other Individuals

As part of the application for this general permit, the applicant and any other individual or individuals responsible for preparing the application submits to the Commissioner a written certification which, at a minimum, complies with the following requirements:

2.2.13.1 Review

The applicant and any other individual or individuals responsible for preparing the application and signing the certification has completely and thoroughly reviewed, at a minimum, this general permit and the following regarding the activities to be authorized under such general permit:

- a. All application information provided in accordance with Section 3.3 of this general permit.
- b. The project site, based on a site inspection.

- c. The Stormwater Pollution Control Plan.
- d. Any plans and specifications and any Department approvals regarding such Stormwater Pollution Control Plan.

2.2.13.2 Affirmative Determination

The applicant and any other individual or individuals responsible for preparing the application and signing the certification pursuant to this general permit has, based on the review described in Section 2.2.13.1 of this general permit, made an affirmative determination to:

- a. Comply with the terms and conditions of this general permit.
- b. Maintain compliance with all plans and documents prepared pursuant to this general permit including, but not limited to, the Stormwater Pollution Control Plan.
- c. Properly implement and maintain the elements of the Stormwater Pollution Control Plan.
- d. Properly operate and maintain all stormwater management systems in compliance with the terms and conditions of this general permit to protect the waters of the State from pollution.

2.2.13.3 The applicant and any other individual or individuals responsible for preparing the application certifies to the following statement:

"I hereby certify that I am making this certification in connection with an application under the General Permit for the Discharge of Stormwater from Construction Activities (general permit), submitted to the Commissioner by [INSERT NAME OF APPLICANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY] and that all terms and conditions of the general permit will be met for all discharges which will be initiated and such activity is eligible for authorization under such permit. I further certify that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I certify that the application filed pursuant to this general permit is on complete and accurate forms as prescribed by the Commissioner without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 2.2.13.1 of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify that I have made an affirmative determination in accordance with Section 2.2.13.2 of this general permit. I understand that the application filed in connection with such general permit is submitted in accordance with and shall comply with the requirements of Section 22a-430b of Conn. Gen. Stat. I also understand that knowingly making any false statement in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under Section 53a-157b of the Conn. Gen. Stat. and any other applicable law."

2.2.14 Designing Professional Engineer or Landscape Architect Certification

The applicant submitted to the Commissioner a written certification by a professional engineer or, where appropriate, a landscape architect licensed in the State of Connecticut for the preparation, planning and design of the Stormwater Pollution Control Plan ("SPCP") and stormwater management systems.

The professional engineer or landscape architect shall certify to the following statement:

"I hereby certify that I am a [professional engineer] [landscape architect] licensed in the State of Connecticut. I am making this certification in connection with a application under the General Permit for the Discharge of Stormwater from Construction Activities (general permit), submitted to the Commissioner by [INSERT NAME OF APPLICANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I certify that I have thoroughly and completely reviewed the Stormwater Pollution Control Plan for the project or activity covered by this certification. I further certify, based on such review and on the standard

of care for such projects, that the Stormwater Pollution Control Plan has been prepared in accordance with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, the Stormwater Quality Manual, as amended, and the conditions of the general permit, and that the controls required for such SPCP are appropriate for the site. I further certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I also understand that knowingly making any false statement in this certification may subject me to sanction by the Department and/or be punishable as a criminal offense, including the possibility of fine and imprisonment, under Section 53a-157b of the Conn. Gen. Stat. and any other applicable law."

2.2.15 Stormwater Pollution Control Plan Review and Certification by a District for Locally Approvable Projects

For Locally Approvable Projects, any Stormwater Pollution Control Plan ("SPCP" or "Plan") not reviewed in accordance with Section 2.2.16 below, the applicant has submitted to the Commissioner a written certification by the appropriate regional Soil and Water Conservation District ("District"), as defined in this general permit, for the review of the Stormwater Pollution Control Plan pursuant to Appendix E, which, at a minimum, complies with the following requirements:

2.2.15.1 Plan Review Certification

The Plan Review Certification must be signed by an authorized representative of the District. Information on the District review process is outlined in the Memorandum of Agreement provided in Appendix E. In cases where the District is unable to complete the review of the SPCP within the time limits specified in the Memorandum of Agreement in Appendix E, a notice to that effect signed by an authorized representative of the District may be submitted in lieu of the certification.

2.2.15.2 Stormwater Pollution Control Plan

The Stormwater Pollution Control Plan has been prepared in accordance with the requirements of Section 5.2 of the general permit.

2.2.16 Stormwater Pollution Control Plan Review and Certification by a Qualified Professional for Locally Approvable Projects

For the purposes of this section, a "Qualified Professional" is either a Qualified Soil Erosion and Sediment Control Professional or a Qualified Professional Engineer licensed in the state of Connecticut and in good standing.

2.2.16.1 Qualified Professional Criteria

- a. Projects with an engineered stormwater management system

For projects with an engineered stormwater management system, if the SPCP is not reviewed in accordance with Section 2.2.15 above, the applicant shall submit to the Commissioner a signed certification by a Qualified Professional engineer.

- b. Projects without an engineered stormwater management system

For projects without an engineered stormwater management system, if the SPCP is not reviewed in accordance with Section 2.2.15 above, the applicant shall submit to the Commissioner a written certification by a qualified soil erosion and sediment control professional or Qualified Professional engineer.

2.2.16.2 Certification by Qualified Professional

All projects shall submit a signed certification by a Qualified Professional to the Commissioner in accordance with the following requirements:

- a. For projects disturbing more than one acre and less than twenty (20) acres, such Qualified Professional:
 - i. Is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the applicant.
 - ii. Has no ownership interest or monetary investment of any kind in the project for which the application is being submitted.
- b. For projects disturbing twenty (20) acres or more, such Qualified Professional:
 - i. Is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the applicant.
 - ii. Has no ownership interest or monetary investment of any kind in the project for which the application is being submitted.
 - iii. Did not engage in any activities associated with the preparation, planning, designing or engineering of such plan for soil erosion and sediment control or plan for stormwater management systems on behalf of such applicant.
 - iv. Is not under the same employ as any person who engaged in any activities associated with the preparation, planning, designing or engineering of such plans and specifications for soil erosion and sediment control or plans and specifications for stormwater management systems on behalf of such applicant.

2.2.16.3 The Qualified Professional signing the certification has, at a minimum, completely and thoroughly reviewed this general permit and the following regarding the discharges to be authorized under such general permit:

- a. All application information provided in accordance with Section 3.3 of this general permit.
- b. The site, based on a site inspection.
- c. The Stormwater Pollution Control Plan.
- d. The Guidelines.
- e. The Stormwater Quality Manual, if applicable.
- f. All non-engineered and engineered stormwater management systems, including any plans and specifications and any approvals by the Commissioner regarding such stormwater management systems.

2.2.16.4 Affirmative Determination

- a. Qualified Soil Erosion & Sediment Control Professional

The qualified soil erosion and sediment control professional signing the certification must have made an affirmative determination, based on the review described in Section 2.2.13.1 of this general permit that:

- i. The Stormwater Pollution Control Plan prepared and certified pursuant to the application is adequate to assure that the project or activity authorized under this general permit, if implemented in accordance with the Stormwater Pollution Control Plan, will comply with the terms and conditions of such general permit.
- ii. All non-engineered stormwater management systems:
 - have been designed to control pollution using measures that reflect the Best Available Technology economically achievable (“BAT”), and that conform to the Guidelines and the Stormwater Quality Manual.

- will function properly as designed and constructed.
- are adequate to ensure compliance with the terms and conditions of this general permit.
- will not cause or contribute to violations of the instream water quality standards and protect the waters of the State from pollution.

iii. There are no engineered stormwater management systems for the site.

b. Qualified Professional Engineer

The Qualified Professional engineer, licensed in the state of Connecticut and in good standing, signing the certification must have made an affirmative determination, based on the review described in Section 2.2.13.1 of this general permit that:

- i. The Stormwater Pollution Control Plan prepared and certified pursuant to the application is adequate to assure that the activity authorized under this general permit, if implemented in accordance with the Stormwater Pollution Control Plan, will comply with the terms and conditions of such general permit.
- ii. All non-engineered and engineered stormwater management systems:
 - have been designed to control pollution to the BAT and that conform to those in the Guidelines and the Stormwater Quality Manual.
 - will function properly as designed.
 - are adequate to ensure compliance with the terms and conditions of this general permit. and
 - will protect the waters of the State from pollution.

2.2.16.5 The Qualified Professional shall, provided it is true and accurate, certify to the following statement:

“I hereby certify that I am a Qualified Professional engineer licensed in the state of Connecticut and in good standing or a qualified soil erosion and sediment control professional, or both, as defined in the General Permit for Discharge of Stormwater from Construction Activities (general permit) and as further specified in Sections 2.2.16.1.a and 2.2.16.1.b of the general permit. I am making this certification in connection with an application under such general permit, submitted to the Commissioner by [INSERT NAME OF APPLICANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 2.2.16.3 of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I further certify that I have made the affirmative determination in accordance with Sections 2.2.13.2 and 2.2.16.4 of this general permit. I understand that this certification is part of an application submitted in accordance with Section 22a-430b of Conn. Gen. Stat. and is subject to the requirements and responsibilities for a Qualified Professional in such statute. I also understand that knowingly making any false statement in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under Section 53a-157b of the Conn. Gen. Stat. and any other applicable law.”

2.2.17 Plan Review and Certification for Projects Conducted by State Agencies

For construction activity owned or operated by a state of Connecticut agency (e.g. Department of Transportation (CTDOT), Department of Administrative Services (DAS), etc.), the applying agency has submitted to the Commissioner a signed certification by a Qualified Professional in accordance with the following requirements:

- 2.2.17.1 The applying agency or another state agency has developed a process to establish a list of Qualified Professionals for which the process to qualify has been approved in writing by the Commissioner.
- 2.2.17.2 The Qualified Professional reviewing and certifying the SPCP is included on the list prepared by a state agency and for which the process to establish the list has been approved by the Commissioner pursuant to Section 2.2.17.1, above.
- 2.2.17.3 The Qualified Professional signing the certification has, at a minimum, completely and thoroughly reviewed this general permit and the following regarding the discharges to be authorized under such general permit:
- a. All application information provided in accordance with Section 3.3 of such general permit.
 - b. The site, based on a site inspection.
 - c. The Stormwater Pollution Control Plan.
 - d. The Guidelines.
 - e. The Stormwater Quality Manual, if applicable.
 - f. All non-engineered and engineered stormwater management systems, including any plans and specifications and any Department approvals regarding such stormwater management systems.
- 2.2.17.4 Affirmative Determination
- a. A qualified soil erosion and sediment control professional signing the certification must have made an affirmative determination, based on the review described in Section 2.2.13.1 of this general permit that:
 - i. The Stormwater Pollution Control Plan prepared and certified pursuant to the application is adequate to assure that the project or activity authorized under this general permit, if implemented in accordance with the Stormwater Pollution Control Plan, will comply with the terms and conditions of such general permit.
 - ii. All non-engineered stormwater management systems:
 - have been designed to control pollution to the BAT and that conform to those in the Guidelines and the Stormwater Quality Manual.
 - will function properly as designed.
 - are adequate to ensure compliance with the terms and conditions of this general permit.
 - will protect the waters of the State from pollution.
 - iii. There are no engineered stormwater management systems for the site.
 - b. A Qualified Professional engineer signing the certification must have made an affirmative determination, based on the review described in Section 2.2.13.1 of this general permit that:
 - i. The Stormwater Pollution Control Plan prepared and certified pursuant to the application is adequate to assure that the activity authorized under this general permit, if implemented in accordance with the Stormwater Pollution Control Plan, will comply with the terms and conditions of such general permit.
 - ii. All non-engineered and engineered stormwater management systems:
 - have been designed to control pollution to the BAT and that conform to those in the Guidelines and the Stormwater Quality Manual.
 - will function properly as designed.

- are adequate to ensure compliance with the terms and conditions of this general permit.
- will protect the waters of the State from pollution.

2.2.17.5 The Qualified Professional shall, provided it is true and accurate, certify to the following statement:

"I hereby certify that I am a Qualified Professional engineer licensed in the state of Connecticut and in good standing or qualified soil erosion and sediment control professional, or both, as defined in the General Permit for Discharge of Stormwater from Construction Activities and as further specified in Sections 2.2.16.1.a and 2.2.16.1.b of such general permit. I am making this certification in connection with an application under such general permit, submitted to the Commissioner by [INSERT NAME OF APPLICANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 2.2.17.3 of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I further certify that I have made the affirmative determination in accordance with Sections 2.2.13.2 and 2.2.17.4 of this general permit. I understand that this certification is part of an application submitted in accordance with Section 22a-430b of Conn. Gen. Stat. and is subject to the requirements and responsibilities for a Qualified Professional in such statute. I also understand that knowingly making any false statement in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under Section 53a-157b of the Conn. Gen. Stat. and any other applicable law."

2.2.17.6 Applications for construction activities conducted by a state agency under this subparagraph may be submitted in accordance with the requirements in Sections 3.3.2.

2.2.18 Solar Arrays

For constructions activities associated with the development of a Solar Array that is categorized as Locally Exempt, as defined in Section 10 of this general permit, the applicant shall also comply with the requirements in Appendix I.

2.3 Geographic Area

This general permit applies throughout the State of Connecticut.

2.4 Effective Date and Expiration Date of this General Permit

This general permit is effective on the date it is issued by the Commissioner and expires five (5) years from such date. The general permit may be administratively continued in effect until the Department has reissued the permit in accordance with the Conn. Gen. Stat. and Regs. Conn. State Agencies. If the permit is administratively continued, Permittees are required to comply with all permit terms and conditions, including the monitoring requirements and submittal of reports at the original frequency during the continuance of the permit.

2.5 Effective Date of Authorization

2.5.1 Authorization to Discharge for Existing Permittees

Upon the effective date of this general permit, Permittees that had existing authorization to discharge under the *General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities*, issued December 31, 2020, ("Existing Permittees") shall have continued authorization to discharge under the terms and conditions of this general permit, provided the Permittee is in compliance with the terms and conditions of this general permit and a complete application for this general permit is submitted to the Commissioner in accordance with Section 3 of this general permit on or before ninety (90) days after the effective date of this general permit until the Commissioner makes a final determination regarding such application.

If the Existing Permittee does not submit an appropriate, complete, and accurate application requesting authorization to discharge under this general permit or a Notice of Termination, if applicable, on or before ninety (90) days following the effective date of this permit, authorization under this permit will terminate on such due date. The Permittee must then submit a new application in compliance with the full terms and conditions of this permit. The Commissioner will review and approve, reject, or deny such applications in writing.

2.5.2 Emergency Construction Activity Exception

For emergency construction activities (pursuant to Section 2.1.2) resulting in short-term discharges of stormwater from construction activities in response to a public emergency (e.g., mud slides, earthquake, extreme flooding conditions, widespread disruption in essential public services), when the related work requires immediate authorization to avoid imminent endangerment to human health, public safety, or the environment, or to reestablish essential public services, the date of authorization is the day the discharge initiated.

2.5.3 Locally Approvable Small Construction Activity

No application or SPCP review is required for Small Construction Locally Approvable Projects that will disturb an area equal to or greater than one (1) and less than five (5) acres, regardless of phasing, provided a land-use commission of the municipality (i.e. planning/zoning, wetland, conservation, etc.) reviews and issues a written approval of the proposed erosion and sediment Control Measures, pursuant to the requirements of Section 22a-329 of the Conn. Gen. Stat. The owner or operator shall adhere to the erosion and sediment control land use regulations of the municipality in which the construction activity is conducted, as well as the Guidelines and the Stormwater Quality Manual. The date of authorization is the day written approval is obtained.

In the absence of a municipal commission to review and approve such activity, the Permittee shall apply with the DEEP under the requirements for a “Locally Exempt Project” and comply with all applicable conditions of this general permit.

2.5.4 Authorization to Discharge for New Permittees

2.5.4.1 A new construction activity that has never been authorized to discharge under this general permit (“New Permittee”) is authorized to discharge in accordance with the terms and conditions of this general permit upon submittal of a complete application and after receiving a Notice of Coverage from the Commissioner in accordance with the following timelines:

a. Standard Authorization Timelines:

- i. For Locally Approvable Projects: sixty (60) days after submission of a complete application form.
- ii. For Locally Exempt Projects with a total disturbed area of under twenty (20) acres: sixty (60) days after submission of a complete application form.
- iii. For Locally Exempt Projects with a total disturbed area equal to or more than twenty (20) acres: ninety (90) days after submission of a complete application form.

2.5.4.2 Exceptions to the Standard Authorization Timelines

If either of the criteria apply below, authorization timelines shall supersede those in Subsection 2.5.4.1 above:

- a. For sites where the application and the Stormwater Pollution Control Plan (SPCP) availability and review provisions in Section 3.10 of this general permit are fulfilled prior to the expiration of the authorization timelines referenced in Subsection 2.5.4.1.a above, the Commissioner may grant authorization to discharge upon completion of those requirements.
- b. For sites where conditions of Section 2.2.4, 2.2.9 or Section 5.1.2 of the general permit apply, the construction activity is authorized only upon the date of the Commissioner's affirmative determination and/or Notice of Coverage.
- c. For Locally Exempt Projects conducted by a state agency, the construction activity may be authorized sixty (60) days after submission of a complete application form, regardless of the total disturbed area.

2.6 Transition to and from an Individual Permit

No person shall operate or conduct an activity authorized by both this general permit and an individual permit or an alternative general permit issued by the Commissioner. The requirements for transitioning authorization are as follows:

2.6.1 Transition from an Individual Permit to Authorization Under this General Permit

If an activity meets the requirements of authorization of this general permit and such operation or activity is presently authorized by an individual permit, the Permittee may seek a modification to the individual permit to exclude such operation or activity from that permit. If the operation or activity is the sole operation or activity authorized by such permit, the Permittee shall surrender its permit in writing to the Commissioner. In either event, such Permittee's individual permit shall continue to apply and remain in effect until authorization of such operation or activity under this general permit takes effect.

2.6.2 Transition from Authorization Under this General Permit to an Individual Permit

If an activity or operation is authorized under this general permit and the Commissioner subsequently issues an individual permit for the same activity, then on the date any such individual permit is issued by the Commissioner, the authorization issued under this general permit shall automatically expire.

Section 3 Application Requirements

3.1 Who Must File an Application

An application form is not required for an Emergency Construction Activity (Section 2.5.2) or “Small Construction Locally Approvable Activities” (Section 2.5.3).

For all other eligible construction activities, any person, municipality, or state agency that initiates, creates, originates, or maintains a discharge of stormwater from or associated with construction activities that disturb one (1) or more acres shall file with the Commissioner an application form that meets the requirements of this Section of this general permit. Such form shall be submitted along with the applicable fee within the timeframes and in the amounts specified in this Section.

3.2 Scope of Application

An applicant shall submit one (1) application for all discharges taking place at the site for which the application seeks authorization under this general permit. Discharges or activities taking place at more than one (1) site may not be consolidated on one (1) application form.

3.2.1 Application Fees

3.2.1.1 For Existing Permittees, construction activities that were authorized to discharge under the previous iteration of the general permit, the renewal fee shall be \$1,250.

3.2.1.2 For new Locally Approvable projects and Locally Exempt projects conducted by a state agency, the application fee shall be \$1,250.

3.2.1.3 New Locally Exempt Projects

For new Locally Exempt projects the application fee shall be as follows:

- a. For sites with total disturbance of one (1) or more acres, but less than twenty (20) acres, the fee shall be \$3,000.
- b. For sites with total disturbance equal to or greater than twenty (20) acres and less than fifty (50) acres, the fee shall be \$4,000.
- c. For sites with total disturbance equal to or greater than fifty (50) acres, the fee shall be \$5,000.

3.2.1.4 The fees for municipalities shall be half of those indicated, pursuant to Section 22a-6(b) of the Conn. Gen. Stat. State and Federal agencies shall pay the full fees specified in this subsection.

3.2.1.5 The application fee shall be paid to the Department of Energy & Environmental Protection.

3.2.1.6 An application shall not be deemed complete, and no activity shall be authorized by this general permit unless the application fee has been paid in full.

3.2.1.7 The application fee is non-refundable.

3.3 Application Requirements

All applications must be electronically submitted, along with all required elements. Failure to submit a complete application form with all the required components of the application may result in the rejection of the application and/or significant delay in the processing of the application.

3.3.1 Permittees with Existing Authorization to Discharge

3.3.1.1 Permittees Authorized Under Previous General Permit

Upon the effective date of this general permit, existing Permittees authorized under the previous version of this general permit shall submit a complete application electronically for authorization to discharge under this general permit to the Commissioner in accordance with the requirements of this general permit on or before ninety (90) days after the effective date of this general permit. The Permittee submitting such application is not required to submit stormwater management design information included in Sections 5.2.1.2.g and 5.2.2.9. For such Permittees subject to Appendix I for solar projects, the Permittee will not be required to modify any existing Letters of Credit to meet the provisions of Section 1.0(8)(d)(ii) of Appendix I.

3.3.1.2 Permittees Submitting New Application for Change of Permittee

For permittees submitting a new application for a construction activity with existing coverage authorized after the effective date of this permit, pursuant to Section 3.7 (Change of Permittee), the new permittee shall submit a complete application electronically for authorization to discharge under this general permit to the Commissioner in accordance with the requirements of Section 3.7. The Notice of Termination of the previous permittee's authorization shall be submitted in accordance with Section 4.2.2. If the new application includes any change of construction activities from those authorized in the existing application, the new Permittee is not eligible for authorization under this Section and a complete application must be submitted in accordance with the requirements of Section 3.3.2. or 3.3.3, as appropriate.

3.3.1.3 Permittees Authorized Under a Site Preparation Phase Permit for a Design-Build Project

For state or federal agencies submitting an application for a Final Design Phase Permit to supersede a Site Preparation Phase Permit previously authorized for a design-build project, the permittee shall submit a complete application electronically for authorization to discharge under this general permit to the Commissioner in accordance with the requirements of this general permit at least thirty (30) days prior to the termination of the Site Preparation Phase Permit authorization pursuant to Section 4.2.3.

3.3.2 Applicants for New Locally Approvable Projects

For applications for new Locally Approvable projects and Locally Exempt projects conducted by a state agency, the application shall:

- 3.3.2.1 Be submitted to the Commissioner at least sixty (60) days prior to the planned commencement of the construction activity.
- 3.3.2.2 Include all of the information that may be required pursuant to Section 2.2, "Requirements for Authorization" of the general permit regarding compliance and/or consistency with the Coastal Management Act, NDDDB Determination Letter, Discharges to Impaired Waters and TMDL requirements, Fisheries Consultation, and Aquifer Protection Areas. *Failure to include these components may result in the rejection of the Application.*
- 3.3.2.3 Include a copy of the Stormwater Pollution Control Plan. The electronic SPCP shall be in Adobe™ PDF format or similar publicly available format in common use. The SPCP should not include any pages or other material that do not pertain to stormwater management or erosion and sediment control (such as electrical and lighting plans, boundary or lot surveys, building plans, non-stormwater related detail sheets, etc.). *The submission of these additional pages in the SPCP will delay the Department's review of the Application.*
- 3.3.2.4 Include a Plan Review Certification in accordance with the plan review certification requirements of either Section 2.2.15, 2.2.16, or 2.2.17 of the general permit.

3.3.3 Applications for New Locally Exempt Projects

Applications for new Locally Exempt projects (except those projects conducted by a state agency pursuant to Section 3.3.2), shall:

- 3.3.3.1 Be submitted at least:
 - a. Sixty (60) days prior to the planned commencement of the construction activity if the site has a total disturbance of between one (1) and twenty (20) acres.
 - b. Ninety (90) days prior to the planned commencement of construction activity if the site:
 - i. Has a total disturbance greater than twenty (20) acres.
 - ii. Discharges to a tidal wetland (that is not a fresh-tidal wetland) within 500 feet of the discharge point.
 - iii. Or is subject to the impaired waters provisions of Section 2.2.9.2 of the general permit.
- 3.3.3.2 Include all of the additional information that may be required pursuant to Section 2.2 of the general permit, "Requirements of Authorization", regarding compliance and/or consistency with the Coastal Management Act, NDDB Determination Letter, Discharges to Impaired Waters including TMDL requirements, Fisheries Consultation, Historic Preservation Review, Solar Array provisions, and Aquifer Protection.
- 3.3.3.3 Include an electronic copy of the Stormwater Pollution Control Plan (SPCP) for the Commissioner's review. The electronic SPCP shall be in Adobe™ PDF format. The SPCP should not include any pages or other material that does not pertain to stormwater management or erosion and sediment control (such as electrical and lighting plans, A-2 boundary or similar lot surveys, building plans, non-stormwater related detail sheets, etc.). *The submission of these additional pages in the SPCP will delay the Departments review of the application.*

3.4 Contents of Application

3.4.1 Standard Application Form

Applications shall be filed electronically on forms prescribed and provided by the Commissioner and include the following:

- 3.4.1.1 Legal name, mailing address, email address, and telephone number of the applicant. If the applicant is a person as defined in this permit transacting business in Connecticut and is registered with the Connecticut Secretary of the State, provide the exact name as registered with the Connecticut Secretary of the State.
- 3.4.1.2 Name, address, telephone number, contact's name, title, phone number, and email address for the following, if different than the applicant:
 - Owner of the property on which the construction activity will take place.
 - Primary contact for departmental correspondence and inquiries, if different from the applicant.
 - Developer of the property on which the construction activity is to take place.
 - General contractor(s) or other representative(s), if different from the developer (day and night).
 - Qualified Professionals, engineer(s) or landscape architect(s) retained by the Permittee to prepare the application and/or the Stormwater Pollution Control Plan.

- 3.4.1.3 Physical address or description of the site for which the application is filed. If the site does not have a mailing address, provide the nearest crossroads, mile markers, latitude/longitude, or permanent structures to identify the location.
- 3.4.1.4 For Existing Permittees, the previously issued permit number.
- 3.4.1.5 The estimated duration of the construction activity.
- 3.4.1.6 Indication of the normal working hours at the site.
- 3.4.1.7 A brief description of the construction activity, including, but not limited to
 - a. Total number of acres to be disturbed, regardless of phasing.
 - b. Indication or Narrative description that construction is in accordance with The Guidelines and Stormwater Quality Manual and local erosion and sediment control ordinances, where applicable.
 - c. Assurances

Assurance that the Stormwater Pollution Control Plan is consistent with the requirements of this general permit and the following provisions of state statutes and regulations, as appropriate:

- i. For sites in the Coastal Boundary, documentation that the DEEP Land and Water Resources Division or local governing authority has issued a coastal site plan approval or a determination that the project is exempt from coastal site plan review (see Appendix D) in accordance with Section 22a-92 and 22a-93(15) of the Conn. Gen. Stat.
- ii. Documentation that the construction activity will not threaten the continued existence of any species listed pursuant to Section 26-306 of the Conn. Gen. Stat. as endangered or threatened and will not result in the destruction or adverse modification of habitat designated as essential to such species (see Appendix A). For sites located within a “listed species” habitat, applications must include a valid National Diversity Database Determination Letter Identification number.
- iii. For sites discharging to impaired waters or waters that have a TMDL or specific load allocation for the site, as specified in Section 2.2.9.3 of the general permit, documentation that the construction activity meets the requirements of that section and Section 5.2.3 of the general permit for authorization under this general permit.
- iv. Indication or documentation to determine if the construction activity is located within an aquifer protection area (see Appendix C) as mapped under Section 22a-354b of the Conn. Gen. Stat. If the site is partially or wholly in an aquifer protection area or public water supply watershed, provide a copy of correspondence with the local water company demonstrating that the construction activity will comply with regulations adopted pursuant to Section 22a-354i of the Conn. Gen. Stat.
- v. Documentation that the proposed construction activity has been reviewed for consistency with state Historic Preservation statutes, regulations, and policies including identification of any potential impacts on property listed or property eligible for listing on the Connecticut Register of Historic Places. A review conducted for an Army Corps of Engineers Section 404 wetland permit would meet this qualification. Refer to Appendix G for guidance on conducting the required review.
- d. For a Locally Approvable project, a plan review certification from the appropriate and authorized District, qualified soil erosion and sediment control professional, and/or Qualified Professional engineer in accordance with Section 2.2.15.1 or Section 2.2.16.4.a or Section 2.2.16.4.b or a notice from the District that they were unable to complete the SPCP review within the time limits specified in the Memorandum of Agreement in Appendix E.

- e. For construction activities within one hundred (100) feet of any stream, river, or tributary that is included within a Cold Water Stream Habitat, as may be authorized by the Commissioner pursuant to Section 2.2.10 of this general permit, a completed Fisheries Consultation Form or, for projects conducted by state agencies, documentation of official interagency coordination between the Fisheries Division and other state agency staff. An email is not considered official coordination.

3.4.1.8 Stormwater discharge information

- a. Name and waterbody ID of receiving stream(s) or waterbody(ies) to which the construction activity discharges and indication of whether or not a receiving stream is listed as an impaired water with or without a TMDL, including identification of the impairment in the most recent State of Connecticut Integrated Water Quality Report or identification of the receiving stream as a high quality water in the Connecticut Water Quality Standards.
- b. Number, type (e.g., swale or pipe), material (e.g., concrete or metal pipe, grass swale), and size of all outfalls that convey stormwater runoff from the site.
- c. Unique identifier (001, 002) and location of all stormwater discharge(s) including latitude and longitude.
- d. If the discharge enters a private or publicly owned storm sewer system, provide the name of the owner of the system.
- e. Indication whether or not the site discharges within 500 feet of a tidal wetland (not a fresh tidal wetland).
- f. Type of structural and nonstructural treatment practice used at each outfall or upgradient from each outfall if one exists.

3.4.1.9 The total effective impervious cover for the site before and after the proposed construction activity.

3.4.1.10 Stormwater Pollution Control Plan

- a. An electronic copy of the Stormwater Pollution Control Plan. The electronic SPCP shall be in Adobe™ PDF format.

Provide an internet address (URL) where the Pollution Control Plan is accessible for public review. The internet address shall remain available and accessible during the term of the permit.
- b. The SPCP should not include any pages or other material that do not pertain to stormwater management or erosion and sediment control (such as electrical and lighting plans, boundary or lot surveys, building plans, non-stormwater related detail sheets, etc.). Also, the full calculation sheets for peak flow analysis (e.g. HydroCAD), other than sheets providing a brief summary of peak flow and Water Quality Volume analyses, should not be included in the SPCP. The full calculation sheets shall be available upon request by the Commissioner. *The submission of these additional pages in the SPCP will delay the Departments review of the application.*
- c. SPCPs submitted for application must comply with all requirements listed in Section 5.2.1.2 of this general permit.

3.4.1.11 Certifications

- a. The certification of the applicant and of the individual or individuals responsible for preparing the application, in accordance with Section 2.2.13 of the general permit.
- b. A design certification must be signed by a professional engineer or, where appropriate, a landscape architect in accordance with Section 2.2.14 of the general permit.
- c. For Locally Approvable projects a signed certification must be submitted by either:

- i. An authorized representative of the District in accordance with Section 2.2.15 of the general permit.
 - ii. A qualified soil erosion and sediment control professional and/or Qualified Professional engineer in accordance with either Section 2.2.16 of the general permit.
- d. The training certification(s) obtained by the Qualified Inspector.

3.4.2 Application for State or Federal Agency Design-Build Projects

3.4.2.1 Application for Site Preparation Projects

For a state or federal agency submitting an application for Early Release Construction (ERC) work for the Site Preparation Phase of a design-build project, the Permittee shall include in their application all information included in Section 3.4.1, above, except the peak flow and Water Quality Volume analyses in Section 3.4.1.10.b. The Permittee shall also not be subject to the Post-Construction Performance Standards in Section 5.2.2.9.

3.4.2.2 Application for Final Design Projects

For a state or federal agency submitting an application for the Final Design Phase of a design-build project, the Permittee shall include in their application all information included in Section 3.4.1, including identification of the Site Preparation Phase Permit number pursuant to Section 3.4.1.4.

3.5 Notice of Change

The Permittee shall submit a Notice of Change to the Commissioner electronically to the Department at: DEEP.StormwaterConstruction@ct.gov if any of the following criteria are met:

- To correct inaccurate or misleading information previously submitted to DEEP.
- Change of contractor.
- Changes to name of the project or site.
- Changes to the disturbed area on the site that reduces the distance to impaired waters, high quality waters, cold water habitat, endangered or threatened species habitat, or aquifer protection areas from those in the original SPCP. For increases of the disturbed area, see Section 3.6.
- Changes to engineered or non-engineered construction or post-construction Control Measures that have the potential to increase the rate or volume of stormwater discharged.

The Notice of Change shall be submitted before any such increases or changes are implemented. Changes to the SPCP documented under this section as well as those not requiring notice under this section shall continue to follow the provisions of Section 5.2.5, Keeping Pollution Control Plans Current.

3.6 New Application Required

For sites that increase the amount of disturbed area by more than one (1) acre from the amount specified in the application approved by the Commissioner, a new application shall be submitted to the Commissioner in accordance with Section 3 of the general permit.

3.7 Change of Permittee

Permit coverage is **not transferable**. When there is a change to the site's Permittee, the new Permittee must submit a new application to the Commissioner in accordance with Section 3 of this general permit within thirty (30) days following the date of transfer and the previous Permittee must submit a Notice of Termination (NOT) in accordance with Section 4 of this general permit.

3.8 Additional Information

The Commissioner may require an applicant to submit additional information that the Commissioner reasonably deems necessary to evaluate the consistency of the subject activity with the requirements for authorization under this general permit. A response to the Commissioner's request for additional information shall be submitted to the Department within fifteen (15) days of the Commissioner's request.

3.9 Where to File an Application and Stormwater Construction Pollution Plan

An application (available at: www.ct.gov/deep/stormwater) shall be filed electronically with the Commissioner in accordance with Section 3.4 of the general permit. If a permittee is not capable of submitting electronically, contact the DEEP stormwater staff at DEEP.StormwaterConstruction@ct.gov.

3.10 Availability of Application and Stormwater Pollution Control Plan

3.10.1 Application Availability

The application shall be made available for public review and comments by both the Permittee and the Commissioner.

3.10.1.1 Availability by the Permittee

- a. No later than five (5) days after submitting an application to the Commissioner, the Permittee shall make their application available to the following parties:
 - i. For discharges authorized by this general permit to a privately or publicly owned separate storm sewer system, a copy of the application that was submitted to the Department shall also be submitted to the owner and operator of that system.
 - ii. For discharges authorized by this general permit to a CTDOT separate storm sewer system, a copy of the application and all attachments thereto shall also be submitted to the CTDOT.
 - iii. For discharges within a public drinking water supply watershed or aquifer protection area, a copy of the application and the SPCP described in Section 5.2 of this general permit shall be submitted to the water company.
 - iv. For discharges to river components and tributaries which have been designated as Wild and Scenic under the Wild and Scenic Rivers Act, a copy of the application and the SPCP described in 5.2 of this general permit shall be submitted to the applicable Wild and Scenic Coordinating Committee. Please refer to Appendix H for additional guidance.
- b. A completed application shall be provided to the following persons immediately upon request:
 - i. The municipal planning commission, zoning commission and/or inland wetlands agency, or its respective enforcement officer or designated agent.
- c. Following approval of the application by the Commissioner, the Permittee shall make a copy of the application available to the public pursuant to the Notice of Construction Activities requirements in Section 5.1.7.

3.10.1.2 Availability by the Commissioner

The Commissioner shall post on the DEEP website a list of applications submitted. SPCPs shall be posted electronically, or a link to such plans provided, with the corresponding application. On or before thirty (30) days from the date such application is accessible to the public through posting by the Commissioner, members of the public may review and comment on an application and/or SPCP. This provision shall not apply to Permittee's submitting a Permit renewal for sites applied under any previous version of this general permit and for which no Notice of Termination has been submitted pursuant to the "Termination Requirements" in Section 4 of the general permit.

3.10.2 Stormwater Pollution Control Plan Availability

The Stormwater Pollution Control Plan (“SPCP”) shall be made available for public review and comments by both the Permittee and the Commissioner.

3.10.2.1 Availability by the Permittee

The Stormwater Pollution Control Plan shall be provided to the following persons immediately upon request:

- a. The municipal planning commission, zoning commission and/or inland wetlands agency, or its respective enforcement officer or designated agent.
- b. If the stormwater discharges through a municipal separate storm sewer system, the municipal operator of the system.
- c. If the stormwater discharge is located within a public drinking water supply watershed or aquifer protection area, the water company or entity responsible for that water supply.
- d. Following approval of the application by the Commissioner, the Permittee shall make a copy of the SPCP available to the public for the duration of construction pursuant to the Notice of Construction Activities requirements of Section 5.1.7.

3.10.2.2 Availability by the Commissioner

- a. On or before thirty (30) days of receipt of an application and SPCP, the Commissioner shall post the SPCP on the DEEP website.
- b. On or before thirty (30) days from the date of posting of the list by the Commissioner, members of the public may submit written comments to the Commissioner. Comments shall be sent via email to DEEP.StormwaterConstruction@ct.gov with the subject line “Construction GP Comments [INSERT NAME OF PERMITTEE].”

3.11 Actions by Commissioner

3.11.1 Approval with Permit Conditions

The Commissioner may approve an application with reasonable permit conditions. If the Commissioner approves the application with conditions, the Permittee shall be bound by such conditions as if they are part of this general permit.

3.11.2 Rejection or Denial

The Commissioner may reject or deny without prejudice an application if it is determined that it does not satisfy the application requirements in Section 3 of this general permit, or if more than fifteen (15) days have elapsed since the Commissioner requested the Permittee submit additional information to determine eligibility for permit coverage for authorization to discharge under this general permit. Any application refiled after such a rejection shall be accompanied by the fee specified in Section 3.2.1 of this general permit.

3.11.3 Require Individual Permit

The Commissioner may require that a Permittee obtain an individual permit for any discharge authorized by this permit in accordance with Section 22a-430b(c) of the Conn. Gen. Statutes.

3.11.4 Activity Inconsistent with Authorization Requirements

The Commissioner may reject or deny an application if he or she finds that the subject activity is inconsistent with the “Requirements for Authorization” in Section 2.2 of this general permit, or for any other reason provided by law.

3.11.5 Notice to Applicant

Denial or rejection of an application under this subsection shall constitute notice to the applicant that the subject activity may not lawfully be conducted or maintained without the issuance of an individual permit in accordance with Section 22a-430 of Regs. Conn. State Agencies.

3.11.6 Notice in Writing

Rejection or denial of an application shall be provided to the applicant in writing and state the reasons for such rejection or disapproval.

Section 4 Termination Requirements

4.1 Notice of Termination

A Notice of Termination (NOT) must be submitted to the Commissioner on a prescribed form under the following conditions: at the completion of the construction project; or, for projects for which there is a Change of Permittee pursuant to Section 3.7, upon approval of a new permit authorized pursuant to Section 3.3.1.2; or for a state or federal agency with a Site Preparation Phase Permit authorized pursuant to Sections 3.3.2 and 3.4.2.1, upon approval of a Final Design Phase Permit authorized pursuant to Sections 3.3.2 and 3.4.2.2.

For Solar Array Projects, also refer to Appendix I for additional requirements.

4.2 Termination Requirements

4.2.1 Standard Termination

A project shall be considered complete after all post-construction measures have been installed, cleaned, functioning, inspected, and the site has achieved final stabilization as defined in Section 10 for all phases of construction for at least one (1) year following the Final Stabilization Inspection. The termination process for a project for which the Permittee has completed construction and is obtaining a Notice of Termination shall include the following information:

4.2.1.1 A Notice of Termination form shall include the following:

- The permit number as provided to the Permittee on the Notice of Coverage.
- The name of the Permittee as reported on the general permit application form.
- The address of the completed construction site.
- A description of the post-construction activities at the site.
- A copy of the Termination Inspection.

4.2.1.2 The dates when:

- Construction was completed.
- All storm drainage structures were cleaned of construction debris pursuant to the “Other Controls” in Section 5.2.2.11 of this general permit.
- The Post-Construction Inspection was completed pursuant to Section 5.2.4.3.
- The Final Stabilization Inspection was completed pursuant to Section 5.2.4.4.
- The Termination Inspection was completed pursuant to Section 5.2.4.5.

4.2.1.3 Certifications and Signatures for the following:

- The Permittee.
- The person who conducted the Post-Construction Inspection pursuant to Section 5.2.4.3 of the general permit.
- The person who conducted the Final Stabilization Inspection pursuant to Section 5.2.4.4 of the general permit.
- The person who conducted the Termination Inspection pursuant to Section 5.2.4.5 of the general permit.

4.2.2 Termination Upon Change of Permittee

For termination of a permit for which there is a change of Permittee (pursuant to Section 3.7), the original Permittee shall submit their Notice of Termination on or before thirty (30) days following the approval of an application filed by the new Permittee pursuant to Section 3.3.1.2. The original Permittee shall include the following information in their Notice of Termination:

4.2.2.1 A Notice of Termination form shall include the following:

- The permit number as provided to the original Permittee on their Notice of Coverage.
- The name of the original Permittee as reported on their general permit application form.
- The address of the construction site.
- The permit number as provided to the new Permittee on their Notice of Coverage.
- The name of the new Permittee as reported on their general permit application form.

4.2.2.2 The dates when:

- The date of transfer of ownership or assignment of the project to the new Permittee.
- The date the new Permittee obtained authorization as provided on their Notice of Coverage.

4.2.2.3 Certifications and Signatures for the following:

- The original Permittee.
- The new Permittee.

4.2.3 Termination of Site Preparation Phase for Design-Build Projects by a State or Federal Agency

For termination of a Site Preparation Phase Permit authorized pursuant to Sections 3.3.2 and 3.4.2.1, the original Permittee shall include the following information in their Notice of Termination following the approval of an application for a Final Design:

4.2.3.1 A Notice of Termination form shall include the following:

- The permit number as provided to the Permittee on the Notice of Coverage for the Site Preparation Phase Permit.
- The address of the construction site.
- The permit number as provided to the Permittee on the Notice of Coverage for the Final Design Phase Permit.

4.2.3.2 The date when the Permittee obtained authorization as provided on their Notice of Coverage for the Final Design Phase Permit.

4.2.3.3 Certifications and Signatures for the Permittee.

4.3 Where to File a Termination Form

A termination form shall be filed electronically with the Commissioner at the following address:

DEEP.StormwaterConstruction@ct.gov with the subject line “Construction GP Termination [INSERT NAME OF PERMITTEE].”

Section 5 Conditions of this General Permit

The Permittee shall, at all times, continue to meet the requirements for authorization set forth in this general permit. In addition, the Permittee shall ensure that authorized activities are conducted in accordance with the conditions in this section and the federal Effluent Limitation Guidelines 40 CFR§450—Construction and Development Point Source Category.

In the absence of information demonstrating otherwise, DEEP expects that compliance with the conditions in this permit will result in stormwater discharges being controlled as necessary to meet applicable water quality standards. If at any time the Permittee becomes aware, or DEEP determines, that discharges are not being controlled as necessary to meet applicable water quality standards, the Permittee must take corrective actions and document those actions. If during coverage under a previous permit, the Permittee was required to install and maintain stormwater controls specifically to meet the assumptions and requirements of an EPA-approved or established TMDL (for any parameter) or to otherwise control discharges to meet water quality standards, the Permittee must continue to implement such controls as part of their coverage under this permit. Failure to implement necessary corrective actions is considered a violation of this permit.

5.1 General Conditions

5.1.1 Structures and Dredging in Coastal and Tidal Areas

Any person or municipality who discharges stormwater into coastal tidal waters for which a permit is required under Section 22a-361 of the Conn. Gen. Stat. (structures and dredging) or Section 22a-32 of the Conn. Gen. Stat. (Tidal Wetlands Act), shall obtain such permit(s) from the Commissioner. A tidal wetland permit is required for any regulated activity conducted within a tidal wetland, including, but not limited to, the placement of any sediment upon a tidal wetland, whether it is deposited directly or indirectly.

5.1.2 Discharges to Tidal Wetlands

Any site which has a post-construction stormwater discharge to a tidal wetland (that is not a fresh-tidal wetland) where such discharge is within 500 feet of the tidal wetland, shall discharge such stormwater through a system designed to retain and infiltrate the Water Quality Volume (“WQV”), as defined in Section 10, on the site. If there are site constraints that would prevent retention of this volume on-site (e.g., brownfields, capped landfills, bedrock, elevated groundwater, etc.), documentation must be submitted, for the Commissioner’s review and written approval, explaining the site limitations and offering an alternative retention volume for consideration. In such cases, the portion of the WQV that cannot be retained must be provided with additional stormwater treatment to protect water quality. Any such treatment shall be designed, installed and maintained in accordance with the Stormwater Quality Manual.

For sites unable to comply with this section, the Commissioner, at the Commissioner’s sole discretion, may require the submission of an individual permit in lieu of authorization under this general permit.

5.1.3 Quality of Discharge

The discharge shall not contain visible floating scum, oil, trash, or other matter contained in the stormwater discharge.

5.1.4 Toxicity to Aquatic and Marine Life/Risk to Human Health

The discharge shall not result in pollution which may cause or contribute to acute or chronic toxicity to aquatic life, impair the biological integrity of aquatic or marine ecosystems, result in unacceptable bioaccumulation, risk to human health, or ecological communities.

5.1.5 Water Quality Standards

The stormwater discharge shall not cause or contribute to an exceedance of the applicable Water Quality Standards or Criteria in the receiving water.

5.1.6 Inspections and Certifications

The following initial inspections and certifications shall apply to all projects:

5.1.6.1 Pre-Construction Meeting

Prior to commencement of any construction activity, the Permittee shall conduct a pre-construction meeting with the Qualified Professional who designed the project, the Qualified Inspector who will be conducting inspections, and all site contractors and subcontractors to be involved in construction activity. Such meeting shall convey the design, stormwater Control Measures, erosion and sediment controls, plan implementation and routine site inspections, and contract requirements for the project prior to earth disturbance. Such a meeting shall also include a site walk of the project site.

- a. For Solar Arrays subject to Appendix I and any other project that may be reviewed and/or inspected by a representative of the District, the pre-construction meeting and site walk shall also include the appropriate District personnel.
- b. For State of CT Agencies, the CTDOT District Engineer, District Environmental Coordinator, or the designated employee of another state agency shall conduct the pre-construction inspection

The Permittee shall develop and retain in the SPCP a pre-construction meeting report. The report shall, at a minimum, include the date, time, names and titles of attendees, company names, phone and email addresses for each attendee and their signature confirming the Permittee held a pre-construction meeting and that they understand the design, stormwater Control Measures erosion and sediment controls, plan implementation, routine site inspections and contract requirements for the project.

5.1.6.2 Contractor Certifications

The Permittee shall obtain signed certifications for all contractors and subcontractors that will perform construction activities on the site and that have the potential to cause pollution of the waters of the State. Such signed certifications shall be retained in the SPCP. Contractors and subcontractors shall certify the following:

“I certify under penalty of the law that I have read and understand the terms and conditions of the General Permit for the Discharge of Stormwater from Construction Activities and the site-specific Stormwater Pollution Control Plan (“SPCP”). I understand that as a contractor or subcontractor at the site, I must comply with the terms and conditions of this general permit and the SPCP.”

5.1.6.3 Construction Inspections

All construction site inspections shall be conducted in accordance with Section 5.2.4 of this general permit.

5.1.7 Post Notice of Construction Activities

Upon commencement of construction activities, the Permittee shall post a sign of permit coverage at a safe, publicly accessible location in close proximity to the construction site. The sign must be at least two (2) feet by three (3) feet in dimension, weatherproof, and in English and Spanish, located so it is visible and legible from the public road nearest to the active part of the construction. The notice shall include:

- the name of the Permittee.
- the DEEP permit number.
- the site address.
- a contact name.

- contact email and phone number.
- the estimated start date and completion date.
- the Permittee-hosted website or email where the SPCP and application are available or can be obtained.
- the following statement: “If you observe indicators of stormwater pollutants in the discharge from this site or in the receiving water, please contact the CT DEEP through the link for Reporting Water Pollution at: www.ct.gov/deep/stormwater”.

For linear projects, such as roadways or utility rights-of-way, the Permittee shall post a sign at roadway crossings, public access points, and other areas where the public may reasonably view the notice.

The notice must be maintained on-site from the time construction activities begin until a Notice of Termination is approved.

5.2 Stormwater Pollution Control Plan

All Permittees shall develop and maintain on-site a Stormwater Pollution Control Plan (“SPCP”) for the discharge of stormwater for the construction activity authorized by this general permit. Once the construction activity begins, the Permittee shall perform all actions required by such SPCP and shall maintain compliance with the SPCP at all times. The Permittee shall ensure that the design and implementation of the SPCP minimizes: (1) soil erosion and sedimentation during and after construction; and (2) stormwater pollution from the site after construction is completed.

5.2.1 Development and Required Elements of the Plan

5.2.1.1 The SPCP shall consist of site plan drawings, selected Best Management Practices (“BMPs”), Control Measures and a narrative described in this section. The SPCP shall be prepared in accordance with sound engineering practices, and shall be consistent with the Guidelines, the Stormwater Quality Manual (available at <http://www.ct.gov/deep/stormwater>) and any applicable requirements of this general permit. The SPCP shall also be consistent with any remedial action plan, closure plan or other plan required by any other DEEP permit.

5.2.1.2 The SPCP shall, at a minimum, take into account and include the following items:

a. Account for the following factors in designing stormwater controls:

- The expected amount, frequency, intensity, and duration of precipitation.
- The nature of stormwater runoff (i.e., flow) and run-on at the site, including factors such as expected flow from impervious surfaces, slopes, and site drainage features.
- The proximity to wetlands, vernal pools, and surface waters.
- The Permittee must design stormwater controls to control stormwater volume, velocity, and peak flow rates to minimize discharges of pollutants in stormwater and to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points.
- The soil type and range of soil particle sizes that are expected to be present on the site.

b. Project Description and Construction Sequencing

The SPCP shall provide a detailed description of the entire project, including the expected phasing or sequence of all construction activities on the site, names of corresponding erosion and sediment Control Measures for each phase of the project, and an estimated timeline for all construction activities. The timeline must be revised as necessary to keep the SPCP current. Wherever practicable, site construction activities shall be phased to avoid the disturbance of over five (5) acres at one time (or a lesser area of disturbance as required in Section 5.2.3 of the general permit regarding “Impaired Waters”). In addition, perimeter Control Measures and permanent

stormwater Control Measures, including, but not limited to, stormwater basins should be constructed in the early phases of the construction sequence prior to large-scale site disturbance. The SPCP shall clearly show the estimated limits of total disturbance for the construction activity and for each phase.

The SPCP shall provide a detailed description of how each phase of construction will be conducted, including, but not limited to:

- commencement of construction activities in each portion of the site, including clearing and grubbing, mass grading, demolition activities, site preparation (i.e., excavating, cutting and filling), final grading, and creation of soil and vegetation stockpiles requiring stabilization.
- temporary or permanent cessation of construction activities in each portion of the site.
- temporary or final stabilization of exposed areas for each portion of the site.
- removal of temporary stormwater controls and construction equipment or vehicles.
- the cessation of construction-related pollutant-generating activities.

c. Site Description, including, but not limited to:

- a narrative description of the nature of the construction activity.
- an estimate of the total area of the site and the total area of the site that is expected to be disturbed by construction activities.
- an estimate of the average runoff coefficient of the site after construction activities are completed.
- the name of the immediate receiving water(s) and the ultimate receiving water(s) of the discharges authorized by this general permit.
- extent of the wetland acreage on the site.

d. Site plan drawings indicating:

- drainage patterns and approximate slopes anticipated after major grading activities.
- areas of soil disturbance.
- the location of major structural and non-structural controls as specified in Subsection 5.2.2.
- the location of areas where stabilization practices are expected to occur.
- areas of existing vegetation.
- areas which will be vegetated following construction.
- the locations of test pits and infiltration tests for stormwater Control Measures.
- surface waters, impaired waters (identifying those with and without a TMDL), high quality waters, inland wetlands, tidal wetlands, fresh-tidal wetlands.
- discharge locations and serial numbers where stormwater will be discharged to surface water (both during and post-construction).
- other surface or subsurface conditions that may affect design considerations regarding potential environmental impact.

e. Pollutants of Concern

The SPCP shall include a list and description of all pollutant-generating activities on the site, include an inventory of pollutants or pollutant constituents (e.g., sediment, fertilizers, pesticides, paints, caulks, sealants, fluorescent light ballasts, contaminated substrates, solvents, fuels)

associated with that activity, which could be discharged in stormwater from the construction site. The Permittee shall address the need for proper containment and/or storage of such potential pollutants to minimize the potential for the discharge of such pollutants from the site. The Permittee must consider where potential spills and leaks could occur that contribute pollutants to stormwater discharges, and any known hazardous or toxic substances, such as PCBs and asbestos, that will be disturbed or removed during construction.

f. Control Measures

The SPCP shall include detailed descriptions of all the Control Measures that will be implemented at the site, both in a separate narrative and on the site plan drawings, to prevent and minimize the discharge of pollutants to the BAT. Control Measures shall be implemented in accordance with Section 5.2.2 of the general permit. In addition, the following information shall be provided in the narrative for each Control Measure:

- calculations supporting the design of sediment and floatables removal controls pursuant to Section 5.2.2.10.b of the general permit.
- calculations supporting the design of velocity dissipation controls pursuant to Section 5.2.2.10.c of the general permit.

g. Runoff Reduction and Low Impact Development (LID) Information

Where runoff reduction practices and/or LID measures are utilized, the following information shall be included in the site plan and narrative description:

- the location of the site's existing streams, floodplains, wetlands, riparian buffers, slopes 3:1 and steeper, and the vegetation identified for preservation and non-disturbance during construction such as forested areas, hay fields, and other old agricultural fields.
- natural drainage patterns, swales, and other drainage ways, that are not streams, floodplains, or wetlands.
- the location of all areas with soils suitable for infiltration and areas of the site best suited for infiltration for the siting of runoff reduction practices and LID design measures.
- the location of all areas unsuitable or least suitable for infiltration for the siting of areas of development/building.
- the location of all test pits and infiltration tests in accordance with the Stormwater Quality Manual.
- the location of all post-construction stormwater management measures, runoff reduction practices, and LID design measures developed pursuant to Subsection 5.2.2.10 of the general permit.
- identification of areas inappropriate for the infiltration of stormwater runoff from land uses with a significant potential for groundwater pollution (e.g. brownfields sites).
- a description of the nature, purpose, implementation, and long-term maintenance of the post-construction stormwater management measures, runoff reduction practices, and LID design measures. Identify who will be responsible for the management of the post-construction stormwater Control Measures and the timeline for such management.
- calculations, for Control Measures developed pursuant to Section 5.2.2.9 of the general permit, illustrating the retention of the Water Quality Volume or half the Water Quality Volume for the site, as applicable, including a discussion of the impact of any runoff reduction and/or LID practices on these calculations.
- a narrative description for all site constraints that may prevent retention of the required Water Quality Volume specified in Section 5.2.2.9 of the general permit including: site limitations;

a description of the runoff reduction practices implemented; a demonstration and explanation that the amount retained is the Best Available Technology; an alternative retention volume; and a description of the measures used to provide additional stormwater treatment for sediment, floatables, bacteria, nutrients and metals above the alternate volume up to the Water Quality Volume.

- calculations showing the proposed effective impervious cover for the site and, where required or proposed for linear projects pursuant to Section 5.2.2.9.b of the general permit, each outfall drainage area.

h. Site Inspections

All inspections shall comply with the requirements and conditions of Section 5.2.4 of the general permit.

i. Plan Implementation Inspections

The SPCP shall include the following information for all completed inspections:

- Plan Implementation Inspection Checklist.
- a schedule for conducting inspections.
- name, credentials, and responsibilities for each inspector.
- name, credentials, and responsibilities of the designing Qualified Professional (and District personnel, as appropriate) conducting such inspections, and required procedures pursuant to Section 5.2.4 of the general permit.
- inspection findings.
- corrective actions required.
- signature of the inspector.
- for additional inspection requirements for Solar Arrays Projects see Appendix I.

ii. Routine Inspections

The SPCP shall include the following information for all complete inspections:

- a routine inspection checklist.
- schedule for conducting inspections.
- identification and qualifications of the Qualified Inspector(s) conducting the routine inspections and their responsibilities and procedures pursuant to Subsection 5.2.4.2 of the general permit.
- inspection findings.
- corrective actions required.
- signature of the Qualified Inspector.
- For additional inspection requirements for Solar Arrays Projects see Appendix I.

i. Contractors

- i. The SPCP shall clearly identify each contractor and subcontractor that will perform construction activities on the site that have the potential to cause pollution of the waters of the State. The SPCP shall retain a signed and dated copy of each certification statement in accordance with Section 5.1.6.2 of the general permit.

ii. Subdivisions

Where individual lots in a subdivision or other common plan of development are conveyed or otherwise the responsibility of another person or municipality, the Permittee is responsible to ensure that those individual lot contractors comply with the provisions of this general permit and the Stormwater Pollution Control Plan, regardless of the lot size or disturbed area. In such cases, the Permittee shall provide a copy of the SPCP to each individual lot contractor, obtain their signed certification, and retain the documentation in the SPCP.

j. Impaired Waters

For construction activities that discharge to impaired waters, as specified in Section 2.2.9, the SPCP shall include a description of the provisions for controlling the preconstruction, active construction, and post-construction stormwater discharges to these waters pursuant to Section 5.2.3 below.

5.2.2 Stormwater Control Measures

Control Measures are required Best Management Practices (“BMPs”) that the Permittee must implement to prevent or minimize, as defined in this permit, the discharge of pollutants from the permitted activity. The Permittee shall comply with all of the BMPs in this section.

Control Measures shall be designed in accordance with the Guidelines, the Stormwater Quality Manual or the CTDOT Qualified Products List ([CTDOT QPL](#)). Use of Control Measures to comply with Section 5.2.2.1 of this general permit (“Erosion and Sediment Controls”), that are not included in such references must be approved by the Commissioner. The narrative and drawings of controls shall address the following minimum components:

5.2.2.1 Erosion and Sediment Controls

a. Soil Stabilization and Protection

The SPCP shall include a narrative description and drawings of interim and permanent soil stabilization practices for managing disturbed areas and soil stockpiles, including a schedule for implementing the practices. The Permittee shall ensure that existing vegetation is preserved to the BAT and disturbed portions of the site are minimized and stabilized throughout the duration of the construction activity at the site.

b. Erosion Control Barriers

In addition to requirements for erosion control barriers prescribed in the Guidelines, the Permittee shall ensure that two (2) rows of erosion control barriers are installed and maintained on sites with slopes equal to or greater than eight percent (8%) within the contributing drainage area to such barrier.

Notwithstanding the foregoing, use of two (2) rows of erosion control barriers shall not be required on the sites specified in this paragraph when:

- i. The Commissioner determines, for a limited section or portion of such erosion control barriers, that it is necessary to accommodate animal crossing or animal movement.
- ii. The Commissioner approves a SPCP that includes an erosion control system whose performance is equivalent to, or exceeds, two rows of erosion control barriers.
- iii. For linear projects, the Commissioner has determined that two rows of erosion control barriers, when compared to one row, will cause greater adverse impact to wetlands, waters, or other sensitive resources.

In such a situation the Commissioner may approve of a SPCP with one row of erosion control barriers or an alternative erosion control system. When implementing this paragraph, the Commissioner may consider the contributing disturbed area, drainage area, length of the slope,

flow conditions to maintain sheet flow, the efficacy of the proposed barrier, any adverse impacts and any other reasonable factor as determined by the Commissioner.

5.2.2.2 Soil Stabilization Timeline

Where construction activities have permanently ceased or when final grades are reached in any portion of the site, stabilization and protection practices as specified in the Guidelines or as approved by the Commissioner shall be initiated immediately and completed within seven (7) days. Notwithstanding any provisions of the Guidelines, areas that will remain disturbed but inactive for at least fourteen (14) calendar days shall receive temporary seeding or soil protection within seven (7) days in accordance with the Guidelines unless site conditions warrant shorter time periods for these provisions.

Areas that will remain disturbed beyond the seeding season as identified in the Guidelines, shall receive long-term, non-vegetative stabilization and protection sufficient to protect the site through the winter and spring when vegetative stabilization can resume. In all cases, stabilization and protection measures shall be implemented as soon as possible in accordance with the Guidelines or as approved by the Commissioner. In drought-stricken areas, alternative stabilization measures must be employed, as necessary, in accordance with the Guidelines.

5.2.2.3 Maintenance of Vegetation

To prevent erosion and soil compaction during construction activities, temporary or permanent vegetation or other ground cover shall be maintained at all times in all areas of the site, except those undergoing active disturbance. All new temporary and permanent vegetation shall consist of native plant species. With respect to such vegetation, the Permittee shall not use chemical fertilization, herbicides, or pesticides except as necessary to establish such vegetation in accordance with the manufacturer's label. The application of chemical pesticides and herbicides shall fully comply with all applicable laws and regulations. The Commissioner encourages the use of pollinator-friendly plant species and integrated pest management practices.

5.2.2.4 Slope Benches

A reverse slope bench is required for any slope steeper than 3:1 (horizontal: vertical) that exceeds 15 feet vertically, except when engineered slope stabilization structures or measures are included or a detailed soil mechanics analysis has been conducted to verify stability. Engineered analyses and measures must be designed by a Qualified Professional engineer with experience in geotechnical engineering or soil mechanics. The qualifications, engineered analysis, and measures shall be included in the SPCP.

5.2.2.5 Wetland Protection

The Commissioner encourages the use of a one hundred (100) foot buffer from any wetland or watercourse. Where site disturbance occurs within fifty (50) feet upgradient of a wetland or waters a double row of sediment barriers (e.g. hay bales, silt fence, wattles, etc.) shall be installed in accordance with the Guidelines between the disturbed area and any such downgradient wetland or waters.

5.2.2.6 Structural Measures

The SPCP shall include a narrative description and drawings of structural measures to divert flows away from exposed soils, store flows or otherwise limit runoff and minimize the discharge of pollutants from the site. Unless otherwise specifically approved in writing by the Commissioner, or if otherwise authorized by another State of Connecticut or federal permit, structural measures shall be installed on upland soil.

For points of discharge from disturbed sites with a total contributing drainage area of between two (2) to five (5) acres, a temporary sediment trap or temporary sediment basin shall be designed and installed in accordance with the Guidelines. For points of discharge from disturbed sites with a total contributing

drainage area greater than five (5) acres, a temporary sediment basin shall be designed and installed in accordance with the Guidelines. Such trap(s) or basin(s) shall utilize outlet structures that withdraw water from the surface (surface outlet), if feasible, and must be maintained until final stabilization of the contributing area.

The requirement for sediment traps or basins shall not apply to flows from off-site areas and flows from areas of the site that are either undisturbed or have undergone final stabilization, provided such flows are diverted around the temporary sediment trap or basin and are approved in writing by the Commissioner.

5.2.2.7 Maintenance

The SPCP shall include a narrative of the procedures to maintain, in good and effective operating condition, all erosion and sediment BMPs and Control Measures, including vegetation, and all other protective measures identified in the SPCP. Maintenance of all erosion and sediment controls shall be performed in accordance with the Guidelines, or more frequently as necessary.

5.2.2.8 Dewatering

- a. Dewatering shall be managed in accordance with the Guidelines. Stormwater discharged to surface waters shall be discharged in a manner that minimizes the discoloration of the receiving waters. The SPCP shall include a narrative description and identify in the drawings the operational and structural measures that will be used to ensure that dewatering waters will not cause scouring or erosion or contain suspended solids in amounts that could reasonably be expected to cause pollution of surface waters of the State or cause or contribute to instream water quality violations. Unless otherwise specifically approved in writing by the Commissioner, or if otherwise authorized by another state or federal permit, dewatering measures shall be installed on upland soil. If turbidity or discoloration or other pollutants are observed in the discharge from dewatering Control Measures, additional or alternate Control Measures or other corrective actions must be implemented in accordance with Section 5.2.4.2.c.i and the Guidelines. The Permittee shall document any corrective actions taken in their SPCP.

No discharge of stormwater shall contain or cause a visible oil sheen, turbidity, floating solids, debris, trash, or foaming in the receiving water.

- b. Turbidity Monitoring

For construction activities with dewatering operations, the Permittee shall carry out initial and weekly monitoring for turbidity from each dewatering discharge point for the duration of dewatering operations. Samples shall be taken after the dewatering water has been treated by any treatment device or control measure. The Permittee shall measure turbidity in accordance with 40 CFR 136. The Permittee shall take the first turbidity measurement within 30 minutes of initiating the dewatering discharge. Following this initial monitoring, the Permittee shall conduct weekly monitoring during the Routine Inspection pursuant to Section 5.2.4.2. A record of the turbidity monitoring results shall be kept on-site with the SPCP and submitted to the Commissioner pursuant to Section 5.3.2.2.

- c. In the absence of information demonstrating otherwise, DEEP expects that compliance with the conditions in this permit will result in stormwater discharges being controlled as necessary to meet applicable water quality standards. If the Permittee is aware of, or becomes aware of, or has reasonable suspicion of contamination onsite from historical activities or the site may have contaminated groundwater, or if any pollutants are known or believed present in the proposed dewatering discharge water, the applicant or Permittee shall apply for coverage under the appropriate permit for authorization to discharge to surface water, ground water, or a POTW. That permit will only cover the treatment and discharge of the contaminated water and will remain active until the cessation of dewatering activities.

- d. For the purposes of this condition, a pollutant may be verified as “known present” if measured above the analytical detection limit using a sufficiently sensitive test method in an environmental sample, and “believed present” if a pollutant has not been measured in an environmental sample but will be added or generated prior to discharge, such as through a treatment process. Consequently, a pollutant may be verified as “known absent” if measured as non-detect relative to the analytical detection limit using a sufficiently sensitive test method in an environmental sample, and “believed absent” if a pollutant has not been measured in an environmental sample but will not be added or generated prior to discharge and is not a parameter that applies to the applicable activity category for a site. If any pollutants are known or believed present in the proposed dewatering discharge water, the applicant shall test one sample of the proposed dewatering discharge water for the pollutants known or believed to be present.

5.2.2.9 Post-Construction Performance Standards

The SPCP shall include a narrative description and drawings of measures that will be installed during the construction process to minimize the discharge of pollutants in stormwater discharges that will occur after construction operations have been completed. Permittees are encouraged to consider the potential need for future resiliency measures to minimize impacts from stormwater discharges from major storm events such as hurricanes, storm surge, extreme/heavy precipitation, and flooding events. Post-construction stormwater management measures shall be designed and implemented in accordance with the Stormwater Quality Manual, the CTDOT Qualified Products List, or as approved by the Commissioner. Unless otherwise specifically provided by the Commissioner in writing, or authorized by another state or federal permit, structural measures shall be placed on upland soils. The SPCP shall include provisions to address the long-term maintenance of any postconstruction stormwater management measure installed.

The Permittee shall utilize runoff reduction practices as defined in Section 10 of this general permit to meet runoff volume requirements based on the conditions below.

a. Redevelopment

For sites that are currently developed with an effective impervious cover of forty percent or more and for which the Permittee is proposing redevelopment, the Permittee shall design the site in such a manner as to retain on-site half the water quality volume (as defined in Section 10 of the general permit) for the site and provide additional stormwater treatment without retention for discharges up to the full Water Quality Volume for sediment, floatables and nutrients to BAT. In cases where the Permittee is not able to retain half the Water Quality Volume (e.g., brownfields, capped landfills, bedrock, elevated groundwater, etc.), the Permittee shall design the redevelopment to retain a runoff volume to the BAT. In such cases, additional stormwater treatment up to the full Water Quality Volume is still required. Any such treatment shall be designed, installed and maintained in accordance with the Stormwater Quality Manual. If retention of half the Water Quality Volume is not achieved, the Permittee shall submit a report for the Commissioner’s review and written approval describing: the measures taken to maximize runoff reduction practices on the site; the reasons why those practices constitute the BAT; the alternative retention volume; and a description of the measures used to provide additional stormwater treatment above the alternate volume up to the Water Quality Volume.

For sites falling under this subsection, where redevelopment only impacts a portion of a previously developed site, the retention of half the Water Quality Volume shall be calculated based on the area of the site and stormwater management system that is disturbed as part of the redevelopment.

b. Linear Redevelopment

In the case of linear redevelopment projects (e.g. roadway reconstruction or widening or public utility rights of way) for the developed portion of the right of way: (1) for projects that may be unable to comply with the retention of the appropriate portion of the Water Quality Volume

specified in subparagraphs (a) and (c) of this subsection, the alternate retention and treatment provisions may also be applied as specified in such subparagraphs, or (2) for projects that will not increase the effective impervious cover within a given watershed, the Permittee shall implement the additional stormwater treatment measures referenced in Subsections (a) and (c) of this subsection, but will not be required to retain the appropriate portion of the Water Quality Volume specified in such paragraphs.

c. Other Development

The following performance standard applies to all sites that are currently undeveloped or are currently developed with less than forty percent effective impervious cover. For these sites, the Permittee shall design the site to retain the Water Quality Volume for the site. If there are site constraints that would prevent retention of this volume on-site (e.g., brownfields, capped landfills, bedrock, elevated groundwater, etc.), documentation must be submitted, for the Commissioner's review and written approval, which: explains the site limitations; provides a description of the runoff reduction practices implemented; provides an explanation of why this constitutes the BAT; offers an alternative retention volume; and provides a description of the measures used to provide additional stormwater treatment for sediment, floatables and nutrients above the alternate volume up to the Water Quality Volume. In the case of linear projects that do not involve impervious surfaces (e.g. electrical transmission rights-of-way or natural gas pipelines), retention of the Water Quality Volume is not required as long as the post-development runoff characteristics do not differ significantly from pre-development conditions.

For redevelopment sites falling under this subsection, where redevelopment only impacts a portion of a previously developed site, the retention of the Water Quality Volume shall be calculated based on the area of the site and stormwater management system that is disturbed as part of the redevelopment.

5.2.2.10 Post-Construction Control Measures

a. Runoff Reduction and Low Impact Development ("LID") Practices

The site design shall incorporate runoff reduction practices, low impact development ("LID") practices or other post-construction Control Measures to meet the performance standards in Section 5.2.2.9 above, promote groundwater recharge and minimize post-construction impacts to water quality.

b. Suspended Solids and Floatables Removal

The Permittee shall install post-construction stormwater Control Measures designed to minimize the discharge of suspended solids and floatables (e.g. oil and grease, other floatable liquids, floatable solids, trash, etc.) from stormwater. A goal of 80 percent removal of the annual sediment load from the stormwater discharge shall be used in designing and installing such stormwater Control Measures. The SPCP shall provide calculations supporting the capability of such measures in achieving this goal and any third-party verification, as applicable, of the sediment removal efficiencies of such measures. This goal is not intended to limit local approval authorities from requiring a higher standard pursuant to local requirements.

c. Velocity Dissipation

Velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow to receiving waters so that the natural physical and biological characteristics and functions of such waters are maintained and protected.

5.2.2.11 Other Controls

The following additional controls shall be implemented:

a. Waste Disposal

Best management practices shall be implemented to minimize the discharge of litter, debris, building materials, hardened concrete waste, or similar materials to waters of the State. The Permittee shall ensure that waste storage containers, including, but not limited to, dumpsters or tanks, be covered and leak proof to prevent stormwater from coming into contact with solid or liquid waste. A narrative of these practices shall be provided in the SPCP. In addition, the dumping of liquid wastes in storm sewers is prohibited.

b. Washout Areas

Washout of applicators, containers, vehicles and equipment for concrete, paint and other materials shall be conducted in a designated washout area. There shall be no surface discharge of washout wastewater from this area. Such a washout shall be conducted:

- outside of any buffers.
- as far away as possible, but at least fifty (50) feet, from any stream, wetland, storm drain inlet, or other sensitive resource.
- in an area directed into a leak-proof container or leak-proof and lined pit designed so no overflows can occur due to inadequate sizing or precipitation in accordance with 40 CFR 450.21(e).

The Permittee shall clearly flag off and designate areas to be used for washing and conduct such activities only in these areas. The Permittee shall direct all wash water into a container or pit designed such that no overflows can occur during rainfall or after snowmelt. At least once per week, the Permittee shall inspect all the containers or pits used for washout to ensure structural integrity, adequate holding capacity, and to check for leaks or overflows. If there are signs of leaks, holes or overflows in the containers or pits that could lead to discharge, the Permittee shall repair them prior to further use.

For concrete washout areas, the Permittee shall remove hardened concrete waste whenever the hardened concrete has accumulated to a height of $\frac{1}{2}$ of the container or pit or as necessary to avoid overflows. The Permittee shall remove and dispose of such hardened concrete waste in accordance with the practices developed for "Waste Disposal" (see Section 5.2.2.11.a of this general permit).

A narrative of maintenance procedures and a record of maintenance and inspections shall be included in the SPCP.

c. Off-site Vehicle Tracking & Dust Suppression

- i. Off-site vehicle tracking of sediments and the generation of dust shall be minimized. A construction entrance shall be installed and maintained in accordance with the Guidelines, including appropriately configured measures for vehicle washdown.
- ii. Where sediment has been tracked-out from the site onto paved roads, sidewalks, or other paved areas outside of the site, the Permittee shall remove the deposited sediment by the end of the same business day in which the track-out occurs or by the end of the next business day if track-out occurs on a non-business day. The Permittee shall remove the track-out by sweeping, shoveling, or vacuuming these surfaces, or by using other similarly effective means of sediment removal. The Permittee is prohibited from hosing or sweeping tracked-out sediment into any constructed or natural site drainage feature, storm drain inlet or receiving water.
- iii. Wet dust suppression shall be used, in accordance with Section 22a-174-18(c) of the Regs. Conn. State Agencies, for any construction activity that causes airborne particulates. The volume of water sprayed for controlling dust shall be minimized to prevent the runoff of water. No discharge of dust control water shall contain or cause a visible oil sheen, floating

solids, visible discoloration, or foaming agents in any receiving waters. Additionally, water used in dust suppression shall not contain contaminants that could violate water quality standards.

d. Cleaning

All post-construction stormwater structures shall be cleaned of construction sediment and any remaining silt fence shall be removed upon stabilization of the site.

e. Storage of Chemicals, Petroleum Products, and Other Potential Pollutant Sources

All chemical and petroleum product containers stored on the site (excluding those contained within vehicles and equipment) shall be stored within an impermeable containment system that is free of gaps and cracks, can contain any leaks or spills and accumulated precipitation until the collected materials are detected and removed, and which can hold at least 110% of the volume of the largest container, or 10% of the total volume of all containers in the area, whichever is larger, without overflow from the containment system. In addition, all chemicals and petroleum products shall be stored under a roofed area except for those chemicals stored in containers of 100-gallon capacity or more, in which case a roof is not required. Double-walled tanks satisfy the requirements of this paragraph for containment and roofing.

Covered storage shall be provided for all non-liquid potential pollutant sources such as fertilizers, pesticides, caulks, sealants, fluorescent light ballasts, contaminated substrates, solvents, and other potential pollutant sources stored on-site. For liquid pollutants, including, but not limited to, paints and solvents, containment shall be considered adequate if it meets the requirements for chemical and petroleum storage in the previous paragraph.

f. Emergency Spill Response

Spills of oil, grease, or other harmful chemicals must immediately be cleaned by the removal of and containment of contaminated soil or emergency spill kit. An emergency spill kit, or alternative proprietary device, must be present and accessible on site for emergency removal of oil, grease, or chemical spills. For reportable spills per Regs. Conn. State Agencies 22a-430-3 subsection (p), the Permittee shall call the DEEP Emergency Response Unit at (860)424-3338.

g. Cold Water Stream Habitat

For construction activities within one hundred (100) feet of any stream, river, or tributary that is included within a Cold Water Stream Habitat, as may be authorized by the Commissioner pursuant to Section 2.2.10 of this general permit, any mitigation strategies authorized by the Commissioner must be verified post-construction by the designing qualified professional.

5.2.3 Additional Conditions for Impaired Waters

For construction activities that discharge directly to impaired waters for sediment or sediment-related impairments, as specified in “Discharges to Impaired Waters” in Section 2.2.9.2 of this general permit, the SPCP shall include the following provisions:

- Where an applicable TMDL sets specific load allocations or requirements for discharges authorized by this permit, discharges shall be consistent with any specific load allocations or requirements established by the applicable TMDL.
- Where an applicable TMDL has been established, but no specific requirements have been identified, compliance with this permit will be assumed to be consistent with the approved TMDL.
- The SPCP shall document that Control Measures are in place to ensure there will be no discharge to the waterbody that may impact or exceed the allocations.

5.2.4 Inspections

All construction activities authorized by this general permit shall be inspected initially for SPCP implementation as describe in Section 5.1.6, and then routinely pursuant to Section 5.2.4.2. Upon project completion and prior to submission of a Notice of Termination, post-construction, final stabilization, and Termination Inspections shall also be conducted. For Solar Array inspections, see additional requirements in Appendix I.

5.2.4.1 Plan Implementation Inspections

Prior to commencement of each phase of the construction activity on the site, the Permittee shall contact the designing Qualified Professional and, for Locally Exempt projects including, but not limited to, Solar Arrays subject to Appendix I, the appropriate District, to ensure that all required inspections are conducted. For each phase of construction, the site shall be inspected at least once within the first thirty (30) days of construction activity and at least three times, with seven (7) or more days between inspections, within the first ninety (90) days of construction activity to confirm compliance with the general permit and proper initial implementation of all Control Measures designated in the SPCP for each phase of construction. The following conditions shall apply:

- a. For all projects not conducted by a state agency and which disturb more than one (1) acre, the inspector shall be someone who:
 - i. Is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the applicant, and
 - ii. Has no ownership interest of any kind in the project for which the application is being submitted.
- b. For projects conducted by a state agency and which disturb more than one (1) acre, the inspector shall be someone who:
 - i. Meets the requirements in subparagraph (a), above, or
 - ii. Is included in the list of Qualified Professionals specified in Section 2.2.17.1 of the general permit.

5.2.4.2 Routine Inspections

The Permittee shall routinely inspect the site for compliance with the general permit, including, but not limited to, compliance with the SPCP for the site, until a Notice of Termination under Section 4 of the general permit has been submitted to the Commissioner. Inspection procedures for these routine inspections shall comply with the following:

- a. The Permittee shall maintain a rain gauge on-site to document rainfall amounts. At least once a week and within 24 hours of the end of a storm that generates a discharge, a Qualified Inspector (provided by the Permittee), shall inspect, at a minimum, the following: disturbed areas of the construction activity that have not been finally stabilized; site discharge outfalls; dewatering discharges; all erosion and sediment Control Measures; all structural Control Measures; all soil stockpile areas; all washout areas, and locations where vehicles enter or exit the site. If at all possible, the inspection shall be conducted during an active rain event. For storms that end on a weekend, holiday or other time after which normal working hours will not commence within 24 hours, a routine inspection is required within 24 hours only for storms that equal or exceed 0.5 inches. For storms of less than 0.5 inches, an inspection shall occur immediately upon the start of the subsequent normal working hours.

In areas of the site where temporary stabilization has been implemented, a routine inspection shall be conducted at least weekly until final stabilization has been achieved. Once all post-construction stormwater measures have been installed in accordance with the Post-Construction Stormwater Management and cleaned of any construction sediment or debris, a Post-Construction Inspection shall be conducted. For sites that have achieved final stabilization pursuant to Section 5.2.4.4, routine inspections shall then be conducted at least monthly.

- b. During each routine inspection the Qualified Inspector(s) shall, among other things, evaluate the effectiveness of erosion and sediment controls, structural controls, stabilization practices, and any other controls implemented to prevent pollution and determine if it is necessary to install, maintain, or repair such controls and/or practices to improve the quality of stormwater discharge(s). In addition, during each routine inspection, the site, including but not limited to, all of the areas noted in the preceding paragraph, shall be inspected for evidence of, or the potential for, the discharge of pollutants (such as sediment, discoloration, floatables, sheen, etc.) to waters or entering the drainage system, and impacts to the receiving waters. Turbidity monitoring pursuant to Section 5.2.2.8.b may also be conducted during these inspections. Locations where vehicles enter or exit the site shall also be inspected for evidence of off-site sediment tracking.
- c. The Qualified Inspector conducting routine inspections shall prepare a report on each inspection. Each such report shall be retained in the SPCP. This report shall summarize: the scope of the inspection; name(s) and qualifications of personnel conducting the inspection; the date(s) of the inspection; weather conditions including precipitation information; major observations relating to erosion and sediment controls and the implementation of the SPCP; a description of the stormwater discharge(s) from the site, including any evidence of pollutant discharge; and any water quality monitoring performed during the inspection.

The report shall be signed by the Permittee or his/her authorized representative in accordance with the Certification of Documents this general permit. The report shall include a statement that, in the judgment of the Qualified Inspector(s) conducting the site inspection, the site is either in compliance or out of compliance with the terms and conditions of the SPCP and permit. If the site inspection indicates that the site is out of compliance, the Permittee shall implement corrective actions pursuant to subsection i, below.

- i. Corrective Actions

If the site inspection indicates that the site is out of compliance, the inspection report shall include a summary of the corrective actions required to bring the site back into compliance. Non-engineered corrective actions (as identified in the Guidelines) shall be implemented on site within 24 hours and incorporated into a revised SPCP within three (3) calendar days of the date of inspection unless another schedule is specified in the Guidelines. Engineered corrective actions (as identified in the Guidelines) shall be implemented on site within seven (7) calendar days and incorporated into a revised SPCP within ten (10) calendar days of the date of inspection, unless another schedule is specified in the Guidelines or is approved by the Commissioner. During the period in which any corrective actions are being developed and have not yet been fully implemented, interim measures shall be implemented to minimize the potential for the discharge of pollutants from the site. If the Permittee must repeatedly (i.e., three (3) or more times) make the same routine maintenance fixes to the same control at the same location, even if the fix can be completed within the time periods prescribed above, the designing Qualified Professional shall investigate and develop a revised control measure to remedy the failure. A record of all corrective actions shall be maintained in the SPCP.

- d. For solar projects under Appendix I, or other projects at the Commissioner's request, a copy of each inspection report shall be submitted electronically to the Department at: DEEP.StormwaterConstruction@ct.gov
- e. Inspectors from DEEP and the appropriate District, where applicable, may inspect the site to verify compliance with this general permit at any time construction activities are ongoing, and upon completion of construction activities, until a Notice of Termination has been accepted by the Commissioner pursuant to Section 4 of the general permit.

5.2.4.3 Post-Construction Inspection

- a. For Locally Approvable projects, once all post-construction stormwater measures have been installed in accordance with Section 5.2.2.10 of the general permit, Post-Construction Stormwater

Management, and cleaned of any construction sediment or debris, the Permittee shall ensure that the appropriate Conservation District or a Qualified Professional, as appropriate, inspects the site to confirm site stabilization and compliance with the post-construction stormwater management requirements. The Permittee shall ensure that the person inspecting the site pursuant to this paragraph is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the Permittee and that such person has no ownership interest of any kind in the project for which the site's application was submitted. A report shall be prepared and certified in accordance with Sections 4.2.2, 5.1.6, and 5.2.1.2.h of the general permit to indicate compliance with this requirement on the Notice of Termination form.

- b. For Locally Exempt Projects except those conducted by state agencies, once all post-construction stormwater measures have been installed in accordance with the Section 5.2.2.10 of the general permit, "Post-Construction Control Measures" and cleaned of any construction sediment or debris, the Permittee shall ensure that a qualified soil erosion and sediment control professional or a Qualified Professional Engineer inspects the site to confirm site stabilization and compliance with the post-construction stormwater management requirements of the general permit. A report shall be prepared and certified in accordance with Sections 4.2.2, 5.1.6, and 5.2.1.2.h of the general permit to indicate compliance with this requirement on the Notice of Termination form.
- c. For projects conducted by state agencies, once all post-construction stormwater measures have been installed in accordance with the Post-Construction Stormwater Management in Subsection 5.2.2.10 and cleaned of any construction sediment or debris, the CTDOT District Engineer or his/her designee and/or CTDOT District Environmental Coordinator, or the designated employee of another state agency, will inspect the site to confirm site stabilization and compliance with the post-construction stormwater management requirements of the general permit.

5.2.4.4 Final Stabilization Inspection

For all projects, once the site has achieved final stabilization, as defined in Section 10, the Permittee shall have the site inspected by a Qualified Professional Engineer (and, for Solar Array Projects subject to Appendix I, the appropriate District). This inspection shall confirm that all temporary erosion and sedimentation measures (silt fence, haybales, etc.) have been removed, all areas of the site are fully stabilized and vegetated, and that all post-construction stormwater management measures are implemented and functioning as designed. The inspection report shall include ground and/or aerial photographs to document final stabilization. All photographs must be clear and in focus, and in the original format and resolution; and include the date each photograph was taken, and a brief description of the area of the site captured by the photograph (e.g., photo shows full establishment of vegetation on northeast corner of site).

5.2.4.5 Termination Inspection

For all projects, except Solar Array Projects conducted pursuant to Appendix I, once the site has maintained final stabilization for at least one (1) year following the Final Stabilization Inspection, the Permittee shall have the site inspected by a Qualified Inspector to confirm such stabilization has been maintained. The inspection report shall include ground or aerial photographs to document final stabilization. All photographs must be clear and in focus, and in the original format and resolution; and include the date each photograph was taken, and a brief description of the area of the site captured by the photograph (e.g., photo shows application of seed and erosion control mats to remaining exposed surfaces on northeast corner of site). The Permittee shall submit the Termination Inspection report with the Notice of Termination form.

- a. No Termination Inspection is required for permits terminated by a Change of Permittee pursuant to Section 3.7 or for Site Preparation Phases authorized under a state or federal agency design-build project.

5.2.5 Keeping Pollution Control Plan Current

The Permittee is responsible for keeping the SPCP in compliance with this general permit at all times. This may involve any or all of the following:

5.2.5.1 The Permittee shall amend the SPCP if the actions required by the SPCP fail to prevent pollution or unauthorized discharges to the waters of the State or fail to comply with any other provision of this general permit. The SPCP shall also be amended whenever there is an addition of or change in contractors or subcontractors at the site, the designing Qualified Professional, District personnel, or a change in design, construction, operation, or maintenance at the site which has not otherwise been addressed in the SPCP. The Permittee shall comply with Section 3.5 if submission of a Notice of Change is required pursuant to that section.

5.2.5.2 The Commissioner may notify the Permittee at any time that the SPCP or the site does not meet one or more requirements of this general permit. Within seven (7) days of such notice, or such other time as the Commissioner may allow, the Permittee shall make the required changes to the SPCP and perform all actions required by such revised SPCP. Within fifteen (15) days of such notice, or such other time as the Commissioner may allow, the Permittee shall submit to the Commissioner a written certification that the requested changes have been made and implemented and such other information as the Commissioner requires. Any such certification or information shall be submitted in accordance with the "Duty to Provide Information" and "Certification," Sections 8.9 and 8.21.4 of this general permit.

5.2.5.3 The Permittee shall ensure qualified persons maintain this SPCP at all times.

5.2.5.4 The Permittee shall retain as part of the SPCP all modifications, and any documentation associated with each modification, made under this section.

5.2.5.5 Failure to Prepare, Maintain or Update Plan

In no event shall failure to complete, maintain or update a SPCP, in accordance with the "Development and Required Elements of the Plan" in Subsections 5.2.1 and 5.2.5 of this general permit, excuse non-compliance or relieve a Permittee of responsibility to implement any actions required to protect the waters of the State or comply with the requirements of this permit.

5.2.5.6 Plan Signature

The SPCP shall be signed and certified as follows:

- a. The SPCP shall be signed by the Permittee in accordance with Section 8.21.4 of this general permit.
- b. The SPCP shall include certification by all contractors and subcontractors in accordance with Section 5.2.1.2.i of this general permit.
- c. The SPCP shall include a copy of the certification by a professional engineer or landscape architect made in accordance with Section 2.2.14 of this general permit.

5.2.5.7 Plan Review Certification

For a Locally Approvable project pursuant to Section 3.3.2 of this general permit, a copy of the SPCP Review Certification made in accordance with Section 2.2.15 or 2.2.16 of this general permit, as applicable, shall be maintained with the SPCP. (Note: Construction activities reviewed and certified pursuant to those Sections are still subject to the local erosion and sediment control and stormwater management regulations of the municipality in which the activity is conducted.)

5.3 Reporting and Record Keeping Requirements

5.3.1 Record Keeping

- 5.3.1.1 For a period of at least five (5) years from the date the Notice of Termination is accepted by the Commissioner, the Permittee shall retain copies of the SPCP and all reports required by this general permit, and records of all data used to complete the application for this general permit, unless the Commissioner specifies another time period in writing.
- 5.3.1.2 The Permittee shall retain an updated copy of the SPCP required by this general permit at the construction site from the date construction is initiated at the site until the date construction at the site is completed and the site is fully stabilized.
- 5.3.1.3 Inspection records must be retained as part of the SPCP for a period of five (5) years after the date of inspection. In addition, the following inspection reports shall be kept on-site with the SPCP and shall be submitted to the Commissioner upon request:
- a. Plan Implementation Inspections conducted in accordance with Section 5.1.6.3 and recorded on checklist forms prepared pursuant to Section 5.2.1.2.h.i.
 - b. Routine Inspections conducted in accordance with Section 5.2.4.2 and recorded on checklist forms prepared pursuant to Section 5.2.1.2.h.ii.
- 5.3.1.4 Plan Modification
- SPCP modifications made pursuant to Section 5.2.5.4 of this general permit and any documentation associated with such modification shall be kept on-site with the SPCP.

5.3.2 Reporting

- 5.3.2.1 All reports requested by the Commissioner, except turbidity monitoring reports pursuant to Section 5.2.2.8.b, shall be provided to the Commissioner within the timeframe specified in any request by the Commissioner, and if no timeframe is specified, no later than thirty (30) days after the date of any such request. If requested by the Commissioner, the reports shall be submitted to the Commissioner by email to DEEP.StormwaterConstruction@ct.gov. Solar Array Projects subject to Appendix I shall also submit the reports prescribed in that Section of the permit by email.
- 5.3.2.2 Turbidity Monitoring Reports
- Records of turbidity monitoring conducted pursuant to Sections 5.2.2.8.b. shall be submitted to the Commissioner on the first day of each month following the initiation of the dewatering discharge for as long as the discharge exists. Turbidity Monitoring Reports shall be submitted by email to DEEP.StormwaterConstruction@ct.gov with the subject line “Construction turbidity monitoring” on forms prescribed by the Commissioner.

Section 6 Duty to Correct, Record, and Report Violations

6.1 Corrective Actions

Immediately upon learning of a violation of a condition of this general permit, the permittee shall immediately take all reasonable actions to determine the cause of the violation, correct the violation, mitigate the impact of the violation, and prevent its recurrence.

6.2 Reporting Violations

6.2.1 Noncompliance with Permit Terms or Conditions

In accordance with Section 22a-430-3(j)(8), 22a-430-3(j)(11)(D), 22a-430-3(k)(4), and 22a-430-3(i)(3) of the RSCA, the Permittee shall notify the Commissioner of the following actual or anticipated noncompliance with the terms or conditions of this permit within two hours of becoming aware of the circumstances. All other actual or anticipated violations of the permit shall be reported to the Commissioner within 24 hours of becoming aware of the circumstances:

- a noncompliance that is greater than two times an effluent limitation.
- a noncompliance of any minimum or maximum daily limitation or excursion beyond a minimum or maximum daily range.
- any condition that may endanger human health or the environment.
- a failure or malfunction of monitoring equipment used to comply with the monitoring requirements of this permit.
- any actual or potential bypass of the Permittee's collection system or treatment facilities.
- expansions or significant alterations of any wastewater collection, treatment components, or its method of operation for the purpose of correcting or avoiding a permit violation.

Notifications shall be submitted via the Commissioner's online Noncompliance Notification Form:

<https://portal.ct.gov/deep/water-regulating-and-discharges/stormwater/stormwater-management>

6.2.2 Five-Day Follow Up Report

Within five (5) days of any notification of noncompliance in accordance with this permit, the Permittee shall submit a follow-up report within five days of the noncompliance using the Commissioner's online Noncompliance Follow-up Report Form:

<https://portal.ct.gov/deep/water-regulating-and-discharges/stormwater/stormwater-management>

The follow-up report shall contain, at a minimum, the following information:

- a description of the noncompliance and its cause.
- the period of noncompliance, including exact dates and times.
- if the noncompliance has not been corrected, the anticipated time it is expected to continue.
- steps taken or planned to correct the noncompliance and reduce, eliminate and prevent recurrence of the noncompliance.

Notification of an actual or anticipated noncompliance or site modification does not stay any term or condition of this permit.

6.2.3 Additional Notification Requirements

In accordance with Section 22a-430-3(j)(11)(ED) of the RSCA, the Permittee shall notify the Commissioner within seventy-two (72) hours and in writing within 30 days when he or she knows or has reason to believe that the concentration in the discharge of any substance listed in the application, or any toxic substance as listed in Appendix B or D of RSCA Section 22a-430-4, has exceeded or will exceed the highest of the following levels:

- one hundred micrograms per liter.
- two hundred micrograms per liter for acrolein and acrylonitrile, five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter for antimony.
- an alternative level specified by the Commissioner, provided such level shall not exceed the level which can be achieved by the permittee's treatment system.

The 72-hour initial notifications and thirty (30) day follow-up reports shall be submitted via the Commissioner's online Noncompliance Follow-up Report Form. The Forms are available on the DEEP website here:

<https://portal.ct.gov/deep/water-regulating-and-discharges/stormwater/stormwater-management>

Section 7 Regs. Conn. State Agencies Incorporated into this General Permit

The Permittee shall comply with all laws applicable to the subject discharges, including but not limited to, the following Regs. Conn. State Agencies which are hereby incorporated into this general permit, as if fully set forth herein:

7.1 Section 22a-430-3

- Subsection (b) General
- Subsection (c) Inspection and Entry
- Subsection (d) Effect of a Permit
- Subsection (e) Duty to Comply
- Subsection (f) Proper Operation and Maintenance
- Subsection (g) Sludge Disposal
- Subsection (h) Duty to Mitigate
- Subsection (i) Facility Modifications, Notification
- Subsection (j) Monitoring, Records and Report Requirements
- Subsection (k) Bypass
- Subsection (m) Effluent Limitation Violations
- Subsection (n) Enforcement
- Subsection (p) Spill Prevention and Control
- Subsection (q) Instrumentation, Alarms, Flow Recorders
- Subsection (r) Equalization

7.2 Section 221-430-4

- Subsection (a) Duty to Apply
- Subsection (b) Duty to Reapply
- Subsection (c) Application Requirements
- Subsection (o) Permit or Application Transfer
- Subsection (p) Revocation, Denial, Modification
- Subsection (q) Variances
- Subsection (t) Prohibitions

Section 8 Standard Conditions

The following standard conditions have been included in this general permit for the convenience of the permittee and are generally duplicative of the incorporated regulations in Section 6 of this general permit. If there are conflicting requirements, the regulations in Section 22a-430 take precedence.

8.1 Inspection and Entry

The Commissioner or his or her authorized representative may take any actions authorized by Sections 22a-6 (5), 22a-425 or 22a-336 of the Conn. Gen. Stat. as amended.

8.2 Reliance on Application

When evaluating an application, the Commissioner relies on information provided by the applicant. If such information proves to be false or incomplete, the authorization issued under this general permit may be suspended or revoked in accordance with law, and the Commissioner may take any other legal action provided by law.

8.3 Submission of Documents

Any document, other than a DMR, required to be submitted to the Commissioner under this Section of the permit will, unless otherwise specified in writing by the Commissioner or through this general permit, be directed to DEEP.StormwaterConstruction@ct.gov with the subject line: "ATTN: Construction Stormwater GP".

8.4 Violations

Violations of any of the terms, conditions, or limitations contained in this permit may subject the permittee to enforcement action including, but not limited to, seeking penalties, injunctions and/or forfeitures pursuant to applicable Sections of the Conn. Gen. Stat. and Regs. Conn. State Agencies.

8.5 Enforcement

The Commissioner may take any enforcement action provided by law, including but not limited to seeking injunctions, penalties and forfeitures as provided in Sections 22a-6, 22a-7, 22a-430, 22a-432, 22a-435, 22a-438 and 22a-471 of the Conn. Gen. Stat. as amended, for any violations or acts of noncompliance with chapter 446k of the Conn. Gen. Stat. or any regulation, order, permit or approval issued there under.

8.6 Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

8.7 No Assurance

No provision of this permit and no action or inaction by the Commissioner shall be construed to constitute an assurance by the Commissioner that the actions taken by the permittee pursuant to this permit will result in compliance or prevent or abate pollution.

8.8 Relief

Nothing in this permit shall relieve the permittee of other obligations under applicable federal, state, and local law.

8.9 Duty to Provide Information

The Commissioner may require any permittee to provide within a reasonable time (30 days) any information which the Commissioner may request to determine whether cause exists for modifying or revoking the permit or to determine compliance with the permit, including but not limited to copies of records required to be kept by the permittee.

8.10 Duty to Comply

The permittee shall comply with all terms and conditions of the permit. Any permit noncompliance constitutes a violation of Chapter 446k of the Conn. Gen. Stat. Permit noncompliance is grounds for enforcement action, permit revocation or modification, or denial of a permit renewal application.

The permittee shall comply with effluent limitations, standards or prohibitions established under Section 307 (a) CWA which are adopted in Subsection (l) of section 22a- 430-4 of the Regs. Conn. State Agencies for toxic substances upon adoption, even if the permit has not yet been modified to incorporate the requirement.

Except for any toxic effluent standards and prohibitions imposed under Section 307 CWA, compliance with a permit during its term shall constitute compliance, for purposes of enforcement, with Sections 301, 302, 306, 307, 318, 403 and 405 of the Clean Water Act.

The Commissioner may modify or revoke a permit during its term for cause as provided in Section 22a-430-4 of the Regs. Conn. State Agencies.

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

8.11 Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of the permit or any discharge which has a reasonable likelihood of adversely affecting human health or the environment.

8.12 Sludge Disposal

The permittee shall dispose of screenings, sludges, chemicals, and oils and any solid or liquid wastes resulting from the wastewater treatment processes at locations approved by the Commissioner for disposal of such materials, or by means of a waste hauler licensed under the provisions of the Conn. Gen. Stat.

8.13 Resource Conservation

All permittees shall implement and maintain practices and/or facilities which, to the maximum extent practicable, result in the minimum amount of wastewater discharged. Such results may be achieved by methods including but not limited to water conservation, resource recovery, waste recycling, wastewater reuse, and material or product substitution. Excessive use of water or the addition of water to dilute an effluent in order to meet any permit limitations or conditions is prohibited.

8.14 Spill Prevention and Control

The permittee shall maintain practices, procedures and facilities designed to prevent, minimize and control spills, leaks, or such other unplanned releases of all toxic or hazardous substances and any other substances as the Commissioner deems necessary to prevent pollution of the waters of the State. Such requirements shall, unless otherwise allowed by the Commissioner, apply to all facilities used for storing, handling transferring, loading, or unloading such substances, including manufacturing areas.

The requirements of this Section do not apply to site components or systems already covered by plans prepared or approved under the Resource Conservation and Recovery Act and the Spill Prevention, Control and Countermeasure program.

8.15 Duty to Reapply

The permit shall be effective for a fixed term not to exceed five (5) years unless administratively extended. The Department will provide permit renewal directions.

8.16 Equalization

All treatment facilities shall be designed to prevent upsets, malfunctions or instances of noncompliance resulting from variations in wastewater strength or flow rate, and shall include, as the Commissioner deems necessary, equalization facilities separate from the treatment facilities.

8.17 Effect of an Upset

An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

- an upset occurred and that the permittee can identify the cause(s) of the upset.
- the permitted site was at the time being properly operated.
- the permittee submitted notice of the upset timely as required in Section 6.2 of this general permit.
- the permittee complied with all remedial measures.

8.18 Bypass

The permittee shall not at any time bypass the collection system or treatment facilities or any part thereof unless such bypass is unanticipated, unavoidable, and necessary to prevent loss of life, personal injury or severe property damage, and there were no feasible alternatives to the bypass, including but not limited to the use of auxiliary or back-up treatment facilities, retention of untreated wastes, stopping the discharges, or maintenance during normal periods of equipment downtime; or the permittee receives prior written approval of the bypass from the Commissioner in order to perform essential maintenance, and the bypass does not cause effluent limitations to be exceeded.

8.18.1 Necessary Bypass

In the event such a bypass is necessary, the permittee shall to the extent possible minimize or halt production and/or all discharges until the site is restored or an alternative method of treatment is provided.

8.18.2 Bypass Prevention

In order to prevent a bypass, the permittee may schedule maintenance during periods when no discharge is occurring or employ any necessary means, including but not limited to duplicate units and systems or alternative collection and treatment or pretreatment schemes. Any such means shall insure that the effluent limitations specified in the permit are achieved; be approved by DEEP in writing prior to its use, which approval shall include an alternative schedule for monitoring if appropriate; and be discontinued upon completion of the performance of the essential maintenance.

8.18.3 Notification to DEEP

8.18.3.1 The permittee shall provide notice to DEEP not less than twenty-four (24) hours prior to the use of any alternative scheme and monitor and record the quality and quantity of the discharge in accordance with permit terms and conditions or an approved alternative schedule. Such monitoring shall be submitted with the next monitoring report required by the permit and shall not be used to meet routine scheduled monitoring report requirements of the permit.

8.18.3.2 If any bypass occurs or may occur, the permittee shall, within two hours of becoming aware of such condition or need, notify DEEP's 24-hour Emergency Response Unit at 860-424-3338 or 866-337-7745 and submit within five days a written report including the cause of the problem, duration

including dates and times and corrective action taken or planned to prevent other such occurrences. Information about incident reporting can be found on DEEP's Emergency Response and Spill Prevention website <https://portal.ct.gov/deep/emergency-response-and-spill-prevention/emergency-response-and-spill-prevention>.

- 8.18.3.3 If the permittee has reason to believe that any effluent limitation specified in the permit may be violated, the permittee shall immediately take steps to prevent or correct such violation, including but not limited to employing an alternative scheme of collection or treatment, and/or control the production of the wastewater and shall monitor and record the quality and quantity of the discharge in accordance with the permit terms and conditions or an approved alternative schedule. Such monitoring shall be submitted with the next monitoring report required by the permit and shall not be used to meet the routine monitoring requirements of the permit.

8.19 Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems and parts thereof for wastewater collection, storage, treatment, and control which are installed or used by the permittee to achieve compliance with the terms and conditions of the permit. Proper operation and maintenance includes, but is not limited to, effective performance, adequate funding, and adequate operator staffing and training, including the employment of certified operators as may be required by the Commissioner pursuant to Sections 22a-416-1 through 22a-416-10 of the Regs. Conn. State Agencies, as amended, and adequate laboratory and process controls, including appropriate quality assurance procedures.

In accordance with Sections 22a-416 through 22a-471 of the Conn. Gen. Stat. as amended, the permittee is required to install and operate a back-up or auxiliary facilities or similar systems or the inventory of spare parts and appurtenances.

8.20 Instrumentation, Alarms, and Flow Records

Except for batch treatment systems unless required by the Commissioner, process wastewater treatment systems shall include instrumentation to automatically and continuously indicate, record and/or control those functions of the system and characteristics of the discharge which the Commissioner deems necessary to assure protection of the waters of the State.

8.21 Signatory Requirements

8.21.1 Signatory

All permit applications and permit modification requests submitted to the Commissioner shall be signed as follows:

- 8.21.1.1 For a corporation, the signatory shall be a responsible corporate officer.

For the purposes of this Section, a responsible corporate officer means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function; any other person who performs similar policy or decision-making functions for the corporation; or the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding twenty-five million dollars (in second quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

- 8.21.1.2 For a partnership or sole proprietorship, the signatory shall be a general partner or the proprietor, respectively.

- 8.21.1.3 For a municipality, State, Federal, or other public agency, the signatory shall be either a principal executive officer or a ranking elected official.

For purposes of this Section, a principal executive officer of a federal agency includes the chief executive officer of the agency, or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

8.21.2 Duly Authorized Representative

All reports required by permits, and other information submitted to the Commissioner shall be signed by a person described in Section 8.21.1 of this general permit or by a duly authorized representative of that person. A person is a duly authorized representative only if:

- 8.21.2.1 The authorization is made in writing by a person described in Section 8.21.1 of this general permit,
- 8.21.2.2 The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated site or activity, such as the position of plant manager, operator of a well or well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be either a named individual or any individual occupying a named position; and
- 8.21.2.3 The written authorization is submitted to the Commissioner.

8.21.3 Notification to DEEP

If an authorization under this subsection is no longer accurate because a different individual or position has assumed the applicable responsibility, a new authorization satisfying the requirements of this section must be submitted to the Commissioner prior to or together with any reports or other information to be signed by an authorized representative.

8.21.4 Certification

Any person signing a document under this section shall make the following certifications:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in the submitted information may be punishable as a criminal offense, in accordance with Section 22a-6 of the Conn. Gen. Stat., pursuant to Section 53a-157b of the Conn. Gen. Stat., and in accordance with any other applicable statute.”

8.22 Date of Filing

For purposes of this general permit, the date of filing with the Commissioner of any document is the date such document is received by the Commissioner.

8.23 False Statements

Any false statement in any information submitted pursuant to this general permit may be punishable as a criminal offense, in accordance with Section 22a-6 of the Conn. Gen. Stat., pursuant to Section 53a-157b of the Conn. Gen. Stat., and in accordance with any other applicable statute.

8.24 Correction of Inaccuracies

Within fifteen (15) days after the date a permittee becomes aware of a change in any of the information submitted pursuant to this general permit, becomes aware that any such information is inaccurate or misleading, or that any relevant information has been omitted, such permittee shall correct the inaccurate or misleading information or supply the omitted information in writing to the Commissioner. Such information shall be certified in accordance with Section 8.21.4 of this general permit. A Notice of Change shall be submitted for any changes made pursuant to Section 3.5 of this general permit.

8.25 Transfer of Authorization

Any authorization under this general permit shall not be transferable.

8.26 Other Applicable Law

Nothing in this general permit shall relieve the permittee of the obligation to comply with any other applicable federal, state, and local law, including but not limited to the obligation to obtain any other authorizations required by such law.

8.27 Duty to Reapply

The permit will be effective for a fixed term not to exceed five (5) years unless administratively extended. The general permit will provide instructions on how and when to reapply.

8.28 Other Rights

This general permit is subject to and does not derogate any present or future rights or powers of the State of Connecticut and conveys no rights in real or personal property nor any exclusive privileges and is subject to all public and private rights and to any federal, state, and local laws pertinent to the property or activity affected by such general permit. In conducting any activity authorized hereunder, the permittee may not cause pollution, impairment, or destruction of the air, water, or other natural resources of this state. The issuance of this general permit shall not create any presumption that this general permit should or will be renewed.

8.29 Effect of a Permit

The issuance of a permit does not convey any property rights of any sort, or any exclusive privilege, authorize any injury to persons or property or invasion of other private rights, authorize any infringement of the Conn. Gen. Stat., Regs. Conn. State Agencies or municipal ordinances, or affect the responsibility of the permittee to obtain all applicable federal, State and municipal authorizations or permits for the discharge and activities which generate the discharge.

Section 9 Commissioner's Powers

9.1 Abatement of Violations

The Commissioner may take any action provided by law to abate a violation of this general permit, including but not limited to penalties of up to \$25,000 per violation per day under Chapter 446k of the Conn. Gen. Stat., for such violation. The Commissioner may, by summary proceedings or otherwise and for any reason provided by law, including violation of this general permit, revoke a Permittee's authorization hereunder in accordance with Sections 22a-3a-2 through 22a-3a-6, inclusive, of the Regs. Conn. State Agencies. Nothing herein shall be construed to affect any remedy available to the Commissioner by law.

9.2 General Permit Revocation, Suspension, or Modification

The Commissioner may, for any reason provided by law, by summary proceedings or otherwise, revoke or suspend this general permit or modify to establish any appropriate conditions, schedules of compliance, or other provisions which may be necessary to protect human health or the environment.

9.3 Filing of an Individual Permit Application

If the Commissioner notifies a Permittee in writing that such Permittee must obtain an individual permit, the Permittee shall file an application for an individual permit within thirty (30) days of receiving the Commissioner's notice or such other time that the Commissioner specified in the notice to the Permittee. While such application is pending before the Commissioner, the Permittee shall continue to comply with the terms and conditions of this general permit. Nothing herein shall affect the Commissioner's power to revoke a Permittee's authorization under this general permit at any time.

Section 10 Definitions

The definitions of terms used in this general permit shall be the same as the definitions contained in Section 22a-423 of the Conn. Gen. Stat. and Section 22a-430-3(a) of the Regs. Conn. State Agencies. All references to an Appendix in this general permit means the applicable Appendix of this general permit. As used in this general permit, the following definitions shall apply:

“*x-year, 24-hour rainfall event*” means the maximum 24-hour precipitation event with a probable recurrence interval of once in the given number of years (i.e. $x=2, 25$ or 100), as defined by the National Oceanic and Atmospheric Administration (NOAA) Atlas 14, Volume 10, Version 2, Point Precipitation Frequency Estimates (as amended), or equivalent regional or state rainfall probability information developed therefrom.

“*Annual sediment load*” means the total amount of sediment carried by stormwater runoff on an annualized basis.

“*Applicant*” means a person or municipality which files a complete application.

“*Application*” means an application filed with the Commissioner pursuant to this general permit.

“*Aquifer protection area*” means that term as defined in Section 22a-354 of the Conn. Gen. Stat.

“*Authorized Activity*” means any activity authorized by this general permit.

“*Best Management Practice*” or “*BMP*” means a schedule of activities, practice (and prohibitions of practices), structure, vegetation, maintenance procedure, and other management practices to prevent or reduce the discharge of pollutants to waters of the State consistent with state, federal or other equivalent and technically supported guidance. BMPs also include treatment requirements, operating procedures, and practices to control site runoff, spillage or leaks, sludge or waste disposal, or drainage from material storage.

“*CFR*” means the Code of Federal Regulations.

“*Clean Water*” means water which, in the judgment of the Commissioner, is of a quality substantially similar to that occurring naturally in the receiving stream under consideration. Clean water may include minor cooling waters, residential swimming pool water, and stormwater.

“*Coastal area*” means coastal area as defined in Section 22a-93(3) of the Conn. Gen. Stat.

“*Coastal waters*” means those waters of Long Island Sound and its harbors, embayments, tidal rivers, streams and creeks which contain a salinity concentration of at least five hundred parts per million under low flow conditions.

“*Commissioner*” means Commissioner as defined by Section 22a-2(a) of the Conn. Gen. Stat.

“*Control Measures*” means any BMPs, or other methods used to prevent or reduce the discharge of pollutants to waters of the State.

“*Construction Activity*” means any activity and discharges associated with construction at a site or the site’s preparation for construction, including, but not limited to, clearing, grubbing, pile driving, soil disturbance, soil compaction by construction equipment, staging and stockpiling, storage, cleaning and washout, grading, excavation, and dewatering.

“*Construction and Development Effluent Limitations and New Source Performance Standards*” (C&D Rule), as published in 40 CFR§450, means the regulation requiring effluent limitations guidelines (ELGs) and new source performance standards (NSPS) for controlling the discharge of pollutants from construction sites.

“*Day*” means the calendar day; if any date specified in the general permit falls on a Saturday, Sunday, or legal holiday, such deadline shall be the next business day thereafter.

“*DOT*” means the State of Connecticut Department of Transportation.

“*DOT MS4*” means conveyances for stormwater including, but not limited to, roads with drainage systems, streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains owned or operated by the Connecticut Department of Transportation and discharging directly to surface waters of the State.

“*Department*” or “*DEEP*” means the Department of Energy and Environmental Protection.

“*Design-Build Project*” is an alternative project delivery method in which a developer selects a design and build team to complete the design and construction of a project rather than separate contracts with the designer and contractor. With such a project, the design and construction phases can be overlapped, so that site preparation and investigation can proceed before a final design is developed.

“*Designing Qualified Professional*” means the Qualified Professional engineer or qualified soil erosion and sediment control professional, as defined below, who developed the original Stormwater Pollution Control Plan for which authorization was granted under this general permit.

“*Developer*” means a person, municipality, or state or federal agency that is responsible, either solely or partially through contract, for the design and construction of a project site.

“*Dewatering water*” means water associated with the construction activity generated from the lowering of the groundwater table, the pumping of accumulated uncontaminated stormwater or uncontaminated groundwater from an excavation, the pumping of surface water from a cofferdam, or pumping of other surface water that has been diverted into a construction site.

“*Discharge*” means the emission of any water, substance, or material into the waters of the State, whether or not such substance causes pollution as defined in Section 22a-423 of the Conn. Gen. Stat.

“*District*” means a Soil and Water Conservation District established pursuant to Section 22a-315 of the Conn. Gen. Stat. Appendices E and F list the Districts, their geographic delineations, and contact information.

“*Disturbance*” means the area on a site where soil will be exposed or susceptible to erosion during any construction activity.

“*Drought-Stricken Area*”, for the purposes of this permit, means an area in which the National Oceanic and Atmospheric Administration’s U.S. Seasonal Drought Outlook indicates for the period during which the construction will occur that any of the following conditions are likely: (1) “Drought to persist or intensify”, (2) “Drought ongoing, some improvement”, (3) “Drought likely to improve, impacts ease”, or (4) “Drought development likely”. See http://www.cpc.ncep.noaa.gov/products/expert_assessment/sdo_summary.php.

“*Early Release Construction*” or “*ERC*” means the preliminary construction activity for a design-build project conducted in order to investigate site conditions and obtain the information necessary to develop the final design for the project.

“*Effective Impervious Cover*” is the area of impervious cover that is hydraulically connected to a water or wetland by means of continuous paved surfaces, gutters, swales, ditches, drain pipes, or other conventional conveyance and detention structures that do not reduce runoff volume.

“*Engineered stormwater management system*” means any control measure and related appurtenances which requires engineering analysis and/or design by a professional engineer.

“*Erosion*” means the detachment and movement of soil or rock fragments by water, wind, ice and gravity.

“*Final Design Phase*” means the final design phase of a design-build project. This phase of the design-build project follows the Site Preparation Phase.

“*Final stabilization*” means that no disturbed areas remain exposed and there are no signs of erosion or sedimentation on site; the vegetation must be at least 6 inches tall with a minimum of one hundred (100) plants per square foot across all seeded areas, or a permanent non-vegetative ground cover has been fully established over the entire site.

“*Fresh-tidal wetland*” means a tidal wetland located outside of coastal waters.

“*General Permit*” or “*this permit*” means the *General Permit for the Discharge of Stormwater from Construction Activities* issued by the Commissioner.

“*Groundwater*” means those waters of the State that naturally exist or flow below the surface of the ground.

“*Guidelines*” means the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, established pursuant to Section 22a-328 of the Conn. Gen. Stat.

“*High Quality Waters*” means those waters defined as high quality waters in Regs. Conn. State Agencies Section 22a-426-1, as may be amended.

“*Impaired water(s)*” for the purposes of this permit, means any waterbody that does not meet applicable water quality standards, including but not limited to waters listed in categories 5 or 4b on the Connecticut Integrated Report of waters listed pursuant to Clean Water Act Section 303(d) and 305(b). Impaired Waters are also known as “*Water Quality Limited Waters.*”

“*Impervious Cover*” means hard surfaces which prevent or impede the infiltration of water. Such surfaces include, but are not limited to, roof areas, compacted gravel, paved walkways, paved parking areas, paved driveways, and other paved surfaces.

“*In Responsible charge*” means professional experience for which the Commissioner determines that a professional’s primary duties consistently involve a high level of responsibility and decision making in the planning and designing of engineered stormwater management systems or in the planning and designing of soil erosion and sediment controls for residential and commercial construction projects. The Commissioner shall consider the following in determining whether a professional’s experience qualifies as responsible charge experience:

- (i) The level of independent decision-making exercised.
- (ii) The number of individuals and the disciplines of the other professionals that the professional supervised or coordinated.
- (iii) The extent to which a professional’s responsibilities consistently involved the review of work performed by other professionals involved the planning and designing of engineered stormwater management systems or the planning and designing of soil erosion and sediment controls for residential and commercial construction projects.
- (iv) The extent to which a professional’s responsibilities consistently involved the planning and designing of engineered stormwater management systems or the planning and designing of soil erosion and sediment controls for residential and commercial construction projects and whether such responsibilities were an integral and substantial component of the professional’s position.

(v) The nature of a professional's employer's primary business interests and the relation of those interests to planning and designing of engineered stormwater management systems or to planning and designing of soil erosion and sediment controls for residential and commercial construction projects.

(vi) The extent to which a professional has engaged in the evaluation and selection of scientific or technical methodologies for planning and designing of engineered stormwater management systems or for planning and designing of soil erosion and sediment controls for residential and commercial construction projects.

(vii) The extent to which a professional drew technical conclusions, made recommendations, and issued opinions based on the results of planning and designing of engineered stormwater management systems or of planning and designing of soil erosion and sediment controls for residential and commercial construction projects.

(viii) Any other factor that the Commissioner deems relevant.

"Individual permit" means a permit issued to a named person under Section 22a-430 of the Conn. Gen. Stat.

"Infeasible" means not technologically possible, or not economically practicable and achievable in light of best industry practices.

"Inland wetland" means wetlands as defined in Section 22a-38 of the Conn. Gen. Stat.

"Landscape Architect" means a person with a currently effective license issued in accordance with chapter 396 of the Conn. Gen. Stat.

"Linear Project" includes the construction of roads, railways, bridges, bikeways, conduits, substructures, pipelines, sewer lines, towers, poles, cables, wires, connectors, switching, regulating and transforming equipment and associated ancillary facilities in a long, narrow area.

"Locally Approvable Project" or *"Locally Approvable"* means a construction activity that is not carried out by or on behalf of a municipal, state or federal entity and is required to obtain municipal approval for the project.

"Locally Exempt Project" or *"Locally Exempt"* means a construction activity which is either; (i) carried out by or on behalf of a municipal, state, or federal entity; or (ii) is not subject to local (municipal) approval.

"Low Impact Development" or *"LID"* means a site design and stormwater management strategy that maintains, mimics or replicates pre-development hydrology through the use of numerous site design principles and small-scale structural stormwater practices distributed throughout a site to manage runoff volume and water quality at the source.

"Minimize" means to reduce and/or eliminate to the extent achievable using stormwater controls that are technologically available and economically practicable and achievable in light of best industry practices.

"Municipal separate storm sewer system" or *"MS4"* means conveyances for stormwater (including roads with drainage systems, streets, catch basins, curbs, gutters, ditches, man-made channels or storm drains) owned or operated by any municipality, DOT, or by any other state or federal institution.

"Municipality" means any metropolitan district, town, consolidated town and city, consolidated town and borough, city, borough, village, fire and sewer district, sewer district and each municipal organization having authority to levy and collect taxes or make charges for its authorized function as defined by Section 22a-423 of the Conn. Gen. Stat.

"New discharger" means any building, structure, facility, or installation:

(a) From which there is or may be a "discharge of pollutants."

(b) That did not commence the “discharge of pollutants” at a particular “site” prior to August 13, 1979.

(c) Which is not a “new source.”

(d) Which has never received a finally effective NPDES permit for discharges at that “site.”

“*New or Increased Discharge*” means new discharge or activity as defined in Section 22a-426-8(b)(3) and increased discharge or activity as defined in Section 22a-426-8(b)(2), as referenced to the Regs. Conn. State Agencies.

“*New source*” means any building, structure, facility, or installation from which there is or may be a “discharge of pollutants,” the construction of which commenced after February 1, 2010.

“*Normal Working Hours*” are considered to be, at a minimum, Monday through Friday, between the hours of 8:00 am and 6:00 pm, unless additional working hours are specified by the Permittee.

“*Notice of Termination*” (NOT) means the form (electronic or paper) required for terminating coverage under the Construction General Permit.

“*NPDES Permit*” means a permit authorizing a discharge to the surface waters of the State either directly, or indirectly by means other than through a POTW or the ground waters, which is issued by the Commissioner pursuant to Section 22a-430 of the Conn. Gen. Stat.

“*Permittee*” means any person who or municipality which initiates, creates or maintains a discharge in accordance with this general permit.

“*Person*” means person as defined in Section 22a-2(b) of the Conn. Gen. Stat.

“*Phase*” means a portion of a project possessing a distinct and complete set of activities that have a specific functional goal wherein the work to be completed in the phase is not dependent upon the execution of work in a later phase in order to make it functional.

“*Point Source*” means any discernible, confined and discrete stormwater conveyance (including but not limited to, any pipe, ditch, channel, tunnel, conduit, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft) from which pollutants are or may be discharged. Point source does not include agricultural stormwater discharges and return flows from irrigated agriculture.

“*Professional Engineer*” or “*P.E.*” means a person with a currently effective license issued in accordance with chapter 391 of the Conn. Gen. Stat.

“*Qualified Inspector*” means an individual possessing either (1) a professional license or certification issued by EPA (<https://www.epa.gov/npdes/construction-general-permit-inspector-training>) or a professional organization recognized or approved by the Commissioner related to civil engineering, landscape architecture, soil science, and two years of demonstrable and focused experience in erosion and sediment control plan review, installation, inspection and/or report writing for residential and commercial construction projects in accordance with the Guidelines; or (2) certification by the CTDOT.

“*Qualified Professional engineer*” means a professional engineer who has, for a minimum of eight years, engaged in the planning and designing of engineered stormwater management systems for residential and commercial construction projects in accordance with the Guidelines and the Stormwater Quality Manual including, but not limited to, a minimum of four years in responsible charge of the planning and designing of engineered stormwater management systems for such projects. Such Qualified Professional engineer shall remain in good standing with the Connecticut Department of Consumer Protection and the Commissioner.

“Qualified soil erosion and sediment control professional” means a landscape architect or a professional engineer who: (1) has for a minimum of eight years engaged in the planning and designing of soil erosion and sediment controls for residential and commercial construction projects in accordance with the Guidelines including, but not limited to, a minimum of four years in responsible charge of the planning and designing of soil erosion and sediment controls for such projects; or (2) is currently certified as a professional in erosion and sediment control as designated by EnviroCert International, Incorporated (or other certifying organization acceptable to the Commissioner) and has, for a minimum of six years, engaged in the planning and designing of soil erosion and sediment controls for residential and commercial construction projects in accordance with the Guidelines including, but not limited to, a minimum of four years in responsible charge in the planning and designing of soil erosion and sediment controls for such projects. Such qualified soil erosion and sediment control professional shall remain in good standing with the Connecticut Department of Consumer Protection and the Commissioner.

“Regs. Conn. State Agencies” means the Regulations of Connecticut State Agencies.

“Regulated Municipal Separate Storm Sewer System” or *“Regulated MS4”* means any MS4 (as defined above) authorized by the most recently issued General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems, as well as the separate storm sewer system of the CTDOT and the City of Stamford.

“Retain” means to hold runoff on-site to promote vegetative uptake and groundwater recharge through the use of runoff reduction or LID practices or other measures. In addition, it means there shall be no subsequent point source release to surface waters from a storm event defined in this general permit or as approved by the Commissioner.

“Runoff reduction practices” means those post-construction stormwater management practices used to reduce post-development runoff volume delivered to the receiving water, as defined by retaining the volume of runoff from a storm up to the Water Quality Volume, as defined in the Stormwater Quality Manual, as amended. Runoff reduction is quantified as the total annual post-development runoff volume reduced through canopy interception, soil amendments, evaporation, rainfall harvesting, engineered infiltration, extended filtration or evapo-transpiration.

“Sediment” means solid material, either mineral or organic, that is in suspension, is transported, or has been moved from its site of origin by erosion.

“Site” means geographically contiguous land on which a construction activity takes place or on which a construction activity for which authorization is sought under this general permit is proposed to take place. Non-contiguous land or water owned by the same person shall be deemed the same site if such land is part of a linear project or is otherwise connected by a right-of-way, which such person controls.

“Site Preparation Phase” means the initial Early Release Construction activity of a design-build project. This phase of a design-build project is followed by the Final Design Phase.

“Small Construction” or *“Small Construction Activity”* defined at 40 CFR §122.26(b)(15) and incorporated here by reference, means a small construction activity, including clearing, grading, and excavating, resulting in a land disturbance equal to or greater than one (1) acre and less than five (5) acres of land or which will disturb less than one (1) acre of total land area but is part of a larger common plan of development or sale that will ultimately disturb equal to or greater than one (1) acre but less than five (5) acres. Small construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of the site.

“Soil” means any unconsolidated mineral and organic material of any origin.

“Soil Scientist” shall be as defined in Conn. Gen. Stat. § 22a-38.

“*Solar Array*” or “*Soil Array Project*” means an on-the-ground installation of arrays of photovoltaic cell panels, supporting structures and related equipment for the production of electricity.

“*Stabilize*” means the use of measures as outlined in the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, or as approved by the Commissioner, to prevent the visible movement of soil particles and development of rills. A site or area of a site is stabilized when there is no evidence of erosion or sedimentation and temporary or permanent vegetative and/or non-vegetative measures have been applied to all disturbed areas.

“*Standard of care*”, as used in Section 2.2, means to endeavor to perform in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances.

“*Stormwater*” means waters consisting of rainfall runoff, including snow or ice melt during a rain event.

“*Stormwater Pollution Control Plan*” or “*SPCP*”, means a site-specific, written document that, at a minimum: (1) identifies potential sources of stormwater pollution at the construction site; (2) describes stormwater controls to reduce or eliminate pollutants in stormwater discharges from the construction site; and (3) identifies procedures to be implemented to comply with the terms and conditions of this general permit.

“*Storm Sewer System*” means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains) designed or used for collecting or conveying stormwater.

“*Stormwater Quality Manual*” means the Connecticut Stormwater Quality Manual published by the Connecticut Department of Energy & Environmental Protection, as amended, and maintained at <http://www.ct.gov/deep/stormwaterqualitymanual>.

“*Surface water*” means those waters of the State which are not ground water and the waters of Long Island Sound, its harbors, embankments, tidal wetlands, and creeks; rivers and streams, brooks, waterways, lakes, ponds, marshes, swamps, bogs, federal jurisdictional wetlands, and other natural or artificial, public or private, vernal or intermittent bodies of water. Surface water does not include ground water.

“*Structural measure*” means a measure constructed for the temporary storage and/or treatment of stormwater runoff.

“*Tidal wetland*” means a wetland as that term is defined in Section 22a-29(2) of the Conn. Gen. Stat.

“*Total disturbance*” means the total area of disturbance on a site during all phases of construction activity.

“*Total Maximum Daily Load*” or “*TMDL*” means a calculation of the maximum amount of a pollutant that a waterbody can receive and still meet water quality standards, and an allocation of that amount to the pollutant's sources. A TMDL includes wasteload allocations (“*WLAs*”) for point source discharges, load allocations (“*LAs*”) for nonpoint sources and/or natural background, and must include a margin of safety (“*MOS*”) and account for seasonal variations.

“*Upland soils*” means soils which are not designated as poorly drained, very poorly drained, alluvial, or flood plain by the National Cooperative Soils Survey, as may be amended, of the Natural Resources Conservation Service of the United States Department of Agriculture and/or the inland wetlands agency of the municipality in which the project will take place.

“*Water company*” means water company as defined in Section 25-32a of the Conn. Gen. Stat.

“*Waters*” shall be as defined in § 22a-423, Conn. Gen. Stat., and for clarification shall include vernal pools and intermittent waters.

“*Water Quality Standards*” means those water quality standards or classifications contained in Sections 22a-426-1 through 22a-426-9, inclusive, of the Regs. Conn. State Agencies and the Classification Maps adopted pursuant to Section 22a-426 of the Conn. Gen. Stat., which together constitute the Connecticut Water Quality Standards, as may be amended.

“*Water Quality Volume*” or “*WQV*” means the volume of runoff generated on a site by the Water Quality Storm as defined in the Connecticut Stormwater Quality Manual, as amended.

“*Watercourse*” means a watercourse as that term is defined in Section 22a-38 of the Conn. Gen. Stat.

“*Wetland*” shall mean and include both “*wetland*” as defined in § 22a-29, Conn. Gen. Stat., and “*wetlands*” as defined in § 22a-38, Conn. Gen. Stat.

Section 11 Appendices

The following appendices are incorporated into this general permit.

11.1 Appendix A – Endangered and Threatened Species

11.2 Appendix B – RESERVED

11.3 Appendix C – Aquifer Protection Guidance Information

11.4 Appendix D – Coastal Management Act Determination Form

11.5 Appendix E & F – Memoranda of Agreement Between DEEP and Conservation Districts

11.6 Appendix G – Historic Preservation Review

11.7 Appendix H – Wild & Scenic Rivers Guidance

11.8 Appendix I – Stormwater Management at Solar Array Construction Projects

11.9 Appendix J – CT DEEP Financial Assurance Irrevocable Letter of Credit

Appendix B

ASP Compost Facility Permit Drawings

SOUTHEASTERN CONNECTICUT REGIONAL RESOURCES RECOVERY AUTHORITY SCRRRA COMPOST FACILITY

132 ROUTE 12, PRESTON, CONNECTICUT 06365

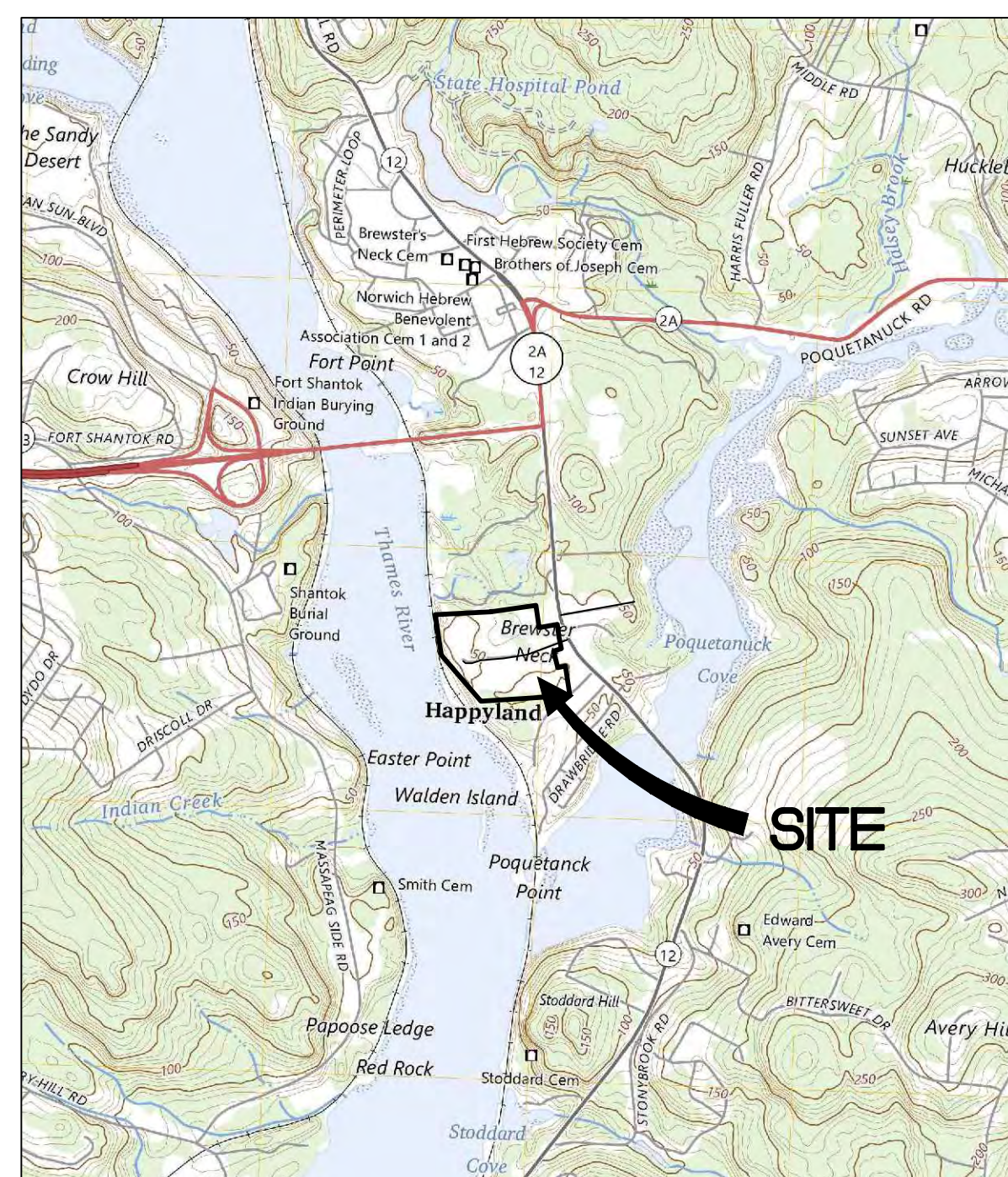
FEBRUARY 2026

PREPARED FOR:
SOUTHEASTERN CONNECTICUT REGIONAL
RESOURCES RECOVERY AUTHORITY
7 HURLBUTT ROAD
GALES FERRY, CT 06335

PREPARED BY:
CIVIL/MECHANICAL
SCS ENGINEERS
4 EXECUTIVE BLVD, SUITE 303
SUFFERN, NEW YORK, 10901
(845) 357-1510

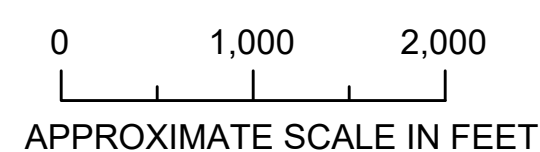
ELECTRICAL
ASPLUNDH ENGINEERING SERVICES, LLC
300 BROOKSIDE AVE., BLDG 14
AMBLER, PA 19002
(215) 884-5970

STRUCTURAL
CMA ENGINEERS, INC.
35 BOW STREET
PORTSMOUTH, NH 03801
(603) 431-6196



LOCATION MAP

SOURCE: USGS QUADRANGLE UNCUSVILLE, CT 2024

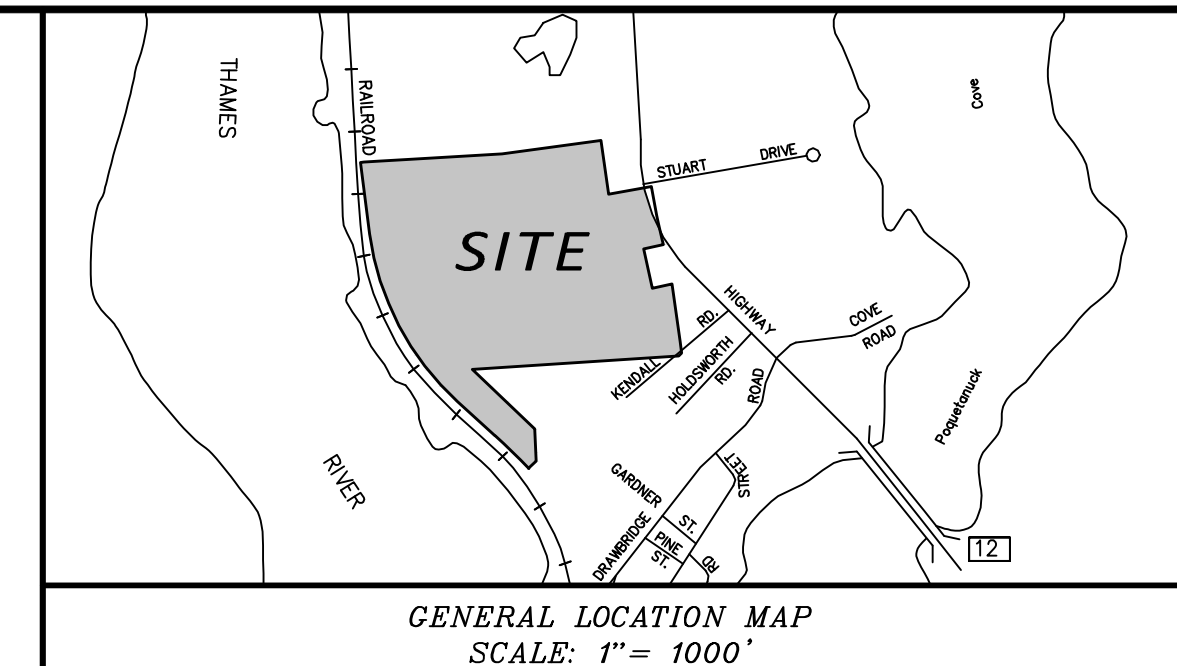
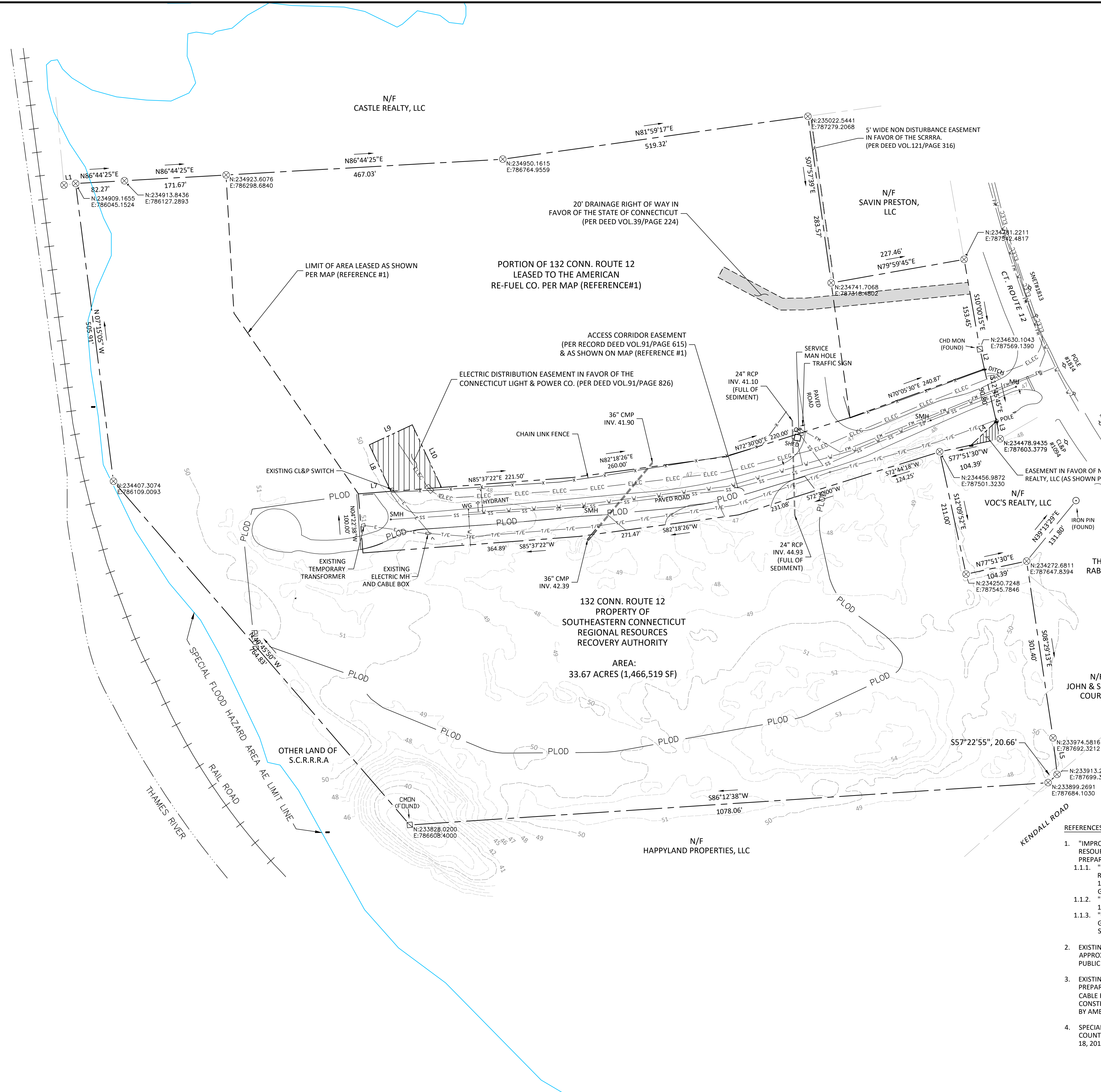


CIVIL/MECHANICAL	
SHEET NO.	DRAWING TITLE
G1	COVER SHEET
G2	OVERALL EXISTING CONDITIONS
C1	EXISTING CONDITIONS & MODIFICATIONS PLAN
C2	SUBGRADE & DRAINAGE PLAN
C3	STORMWATER & POND PLAN
C4	BUILDING & ASP PLAN
C5	SCALE & SCALE HOUSE PLAN
C6	FINAL SURFACES & RESTORATION PLAN
C7	PROFILE & SECTIONS STORM WATER POND
C8	ASP GENERAL ARRANGEMENT
C9	ASP BELOW GROUND PIPING
C10	ASP AERATION TRENCH PROFILE
C11	ASP CONTACT WATER PIPING DETAILS
C12	ASP BLOWER & AERATION PIPING PLAN
C13	ASP BLOWER & PIPING DETAILS
C14	ASP PIPING & INSTRUMENTATION DIAGRAM
C15	RETENTION POND LINER DETAILS
C16	DETAILS & SECTIONS 1
C17	DETAILS & SECTIONS 2
C18	DETAILS & SECTIONS 3
C19	DETAILS & SECTIONS 4
C20	DETAILS & SECTIONS 5
C21	DETAILS & SECTIONS 6
C22	DETAILS & SECTIONS 7

ELECTRICAL	
SHEET NO.	DRAWING TITLE
E-000	ELECTRICAL COVER SHEET
E-001	ELECTRICAL LEGEND, NOTES AND ABBREVIATIONS
E-050	ELECTRICAL SITE PLAN
E-051	ELECTRICAL MEDIUM VOLTAGE POWER CONDUIT ROUTING PLAN
E-052	ELECTRICAL LOW VOLTAGE POWER AND CONTROL CONDUIT ROUTING PLAN
E-053	ELECTRICAL GROUNDING PLAN
E-054	ELECTRICAL SITE LIGHTING PLAN
E-301	ELECTRICAL CABLE SCHEDULES
E-320	ELECTRICAL CONDUIT SCHEDULES
E-321	ELECTRICAL CONDUIT SCHEDULES
E-340	ELECTRICAL PANEL SCHEDULES
E-401	ELECTRICAL SINGLE LINE DIAGRAM
E-402	ELECTRICAL CONTROL SYSTEM DIAGRAM
E-501	ELECTRICAL DETAILS
E-502	ELECTRICAL DETAILS
E-503	ELECTRICAL DETAILS
E-701	ELECTRICAL SPECIFICATIONS
E-702	ELECTRICAL SPECIFICATIONS

STRUCTURAL	
SHEET NO.	DRAWING TITLE
S-000	GENERAL NOTES
S-100	OVERALL FOUNDATION PLAN
S-101	R&M BUILDING FOUNDATION
S-102	APRON & ASP FOUNDATION PLAN
S-103	ENLARGED ASP PART PLANS
S-200	BUILDING ELEVATIONS
S-300	BUILDING SECTIONS
S-301	STRUCTURAL SECTIONS
S-500	STRUCTURAL DETAILS

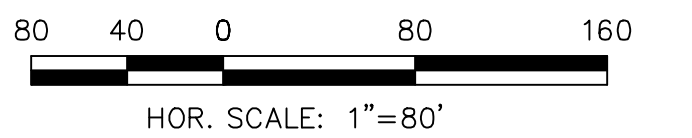
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LEGEND

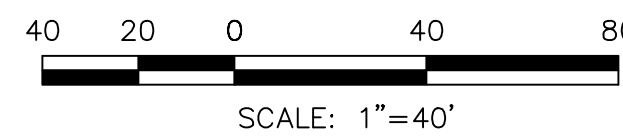
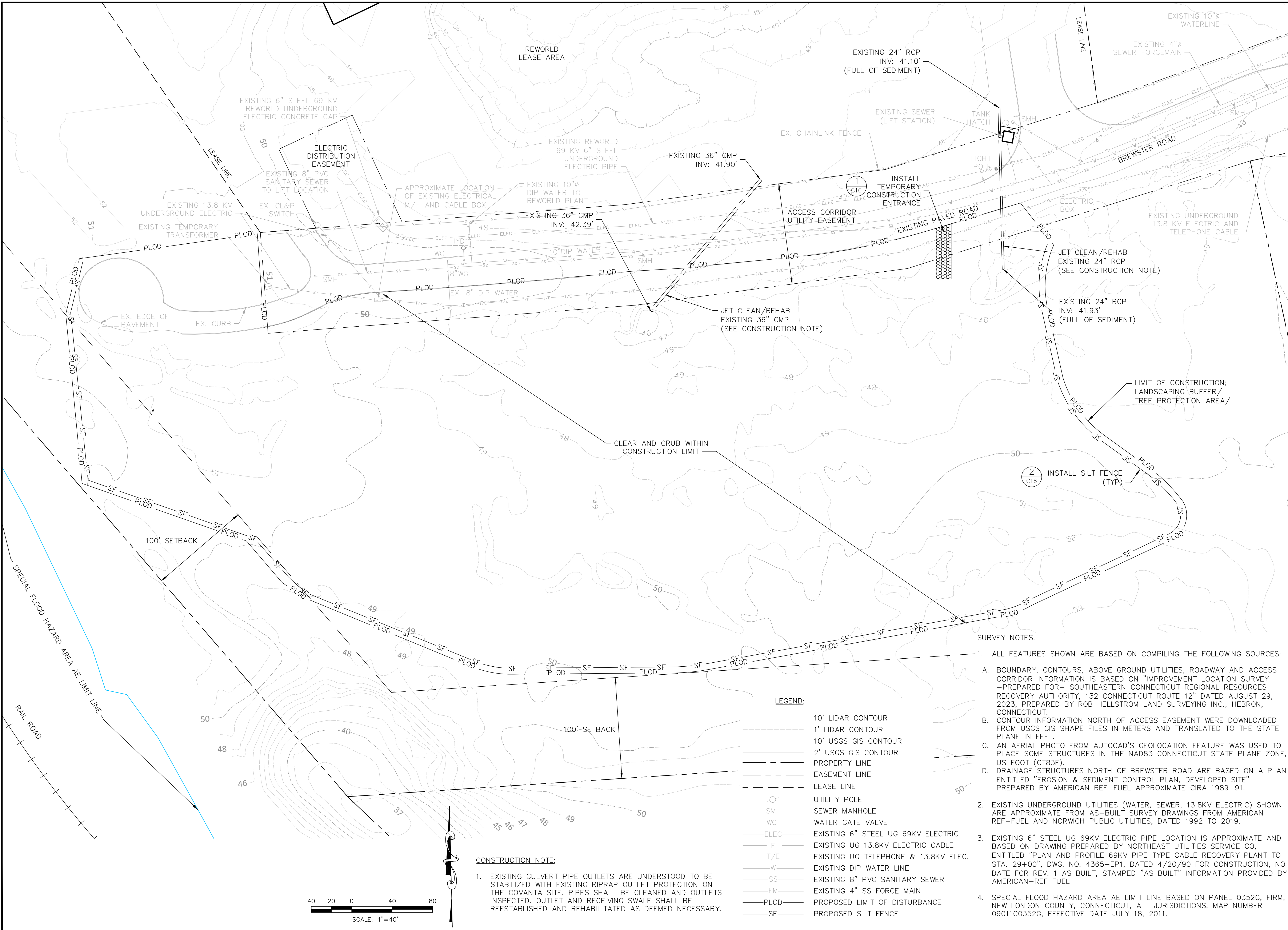
---	PROPERTY LINE
---	EASEMENT LINE
---	LEASE LINE
---	DRAINAGE ROW
○	IRON PIN OR PIPE FOUND
⊗	ANGLE POINT
⊗	MONUMENT FOUND
○	UTILITY POLE
SMH	SEWER MANHOLE
WG	WATER GATE VALVE
ELEC	EXISTING 6" STEEL UG 69KV ELECTRIC
E	EXISTING UG 13.8KV ELECTRIC CABLE
T/E	EXISTING UG TELEPHONE & 13.8KV ELEC.
W	EXISTING DIP WATER LINE
SS	EXISTING 8" PVC SANITARY SEWER
FM	EXISTING 4" SS FORCE MAIN
PLOD	PROPOSED LIMIT OF DISTURBANCE

- REFERENCES:**
- "IMPROVEMENT LOCATION SURVEY - PREPARED FOR - SOUTHEASTERN CONNECTICUT REGIONAL RESOURCES RECOVERY AUTHORITY, 132 CONNECTICUT ROUTE 12" DATED AUGUST 29, 2023, PREPARED BY ROB HELLSTROM LAND SURVEYING INC., HEBRON, CONNECTICUT.
 - "BOUNDARY MAP PREPARED FOR SOUTHEASTERN CONNECTICUT REGIONAL RESOURCES RECOVERY AUTHORITY PRESTON, CONN.", SCALE: 1"=100', DATE: 12-22-06, LAST REV: 10-4-12, BY: MEGSON & HEAGLE CIVIL ENGINEERS & LAND SURVEYORS, LLC 81 RANKIN ROAD GLASTONBURY, CONN. 06033
 - "PROPERTY SURVEY PREPARED FOR S.C.R.R.R. RT. 12 KENDALL RD. PRESTON CT.", SCALE: 1"=100', DATE: MAR. 31, 1987, LAST REV: 10-14-88, BY: FRANSEN CONSULTANTS
 - "CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP TOWN OF PRESTON GROTON NORWICH ROAD FROM LEDYARD TOWN LINE TO POQUETANUCK HALLVILLE ROAD" SCALE: 1"=40' DATE: 11-5-1957 SHEETS NO: 2-3 OF 4
 - EXISTING UNDERGROUND UTILITIES (WATER, SEWER, 13.8KV ELECTRIC) SHOWN ARE APPROXIMATE FROM AS-BUILT SURVEY DRAWINGS FROM AMERICAN REF-FUEL AND NORWICH PUBLIC UTILITIES, DATED 1992 TO 2019.
 - EXISTING 6" STEEL UG 69KV ELECTRIC PIPE LOCATION IS APPROXIMATE AND BASED ON DRAWING PREPARED BY NORTHEAST UTILITIES SERVICE CO, ENTITLED "PLAN AND PROFILE 69KV PIPE TYPE CABLE RECOVERY PLANT TO STA. 29+00", DWG. NO. 4365-EP1, DATED 4/20/90 FOR CONSTRUCTION, NO DATE FOR REV. 1 AS BUILT, STAMPED "AS BUILT" INFORMATION PROVIDED BY AMERICAN-REF FUEL
 - SPECIAL FLOOD HAZARD AREA AE LIMIT LINE BASED ON PANEL 0352G, FIRM, NEW LONDON COUNTY, CONNECTICUT, ALL JURISDICTIONS. MAP NUMBER 09011C0352G, EFFECTIVE DATE JULY 18, 2011.



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	PROJECT TITLE
CLIENT	SCRRRA
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DATE	2/19/26
	SCALE:
DRAWING NO.	AS SHOWN
NO.	1
	2
REVISION	
DATE	
SHEET TITLE	SCRRRA
	PROJECT TITLE
CLIENT	SCRRRA
	7 HURLBUTT ROAD GALES FERRY, CONNECTICUT 06335
DATE	2/19/26
	SCALE:
DRAWING NO.	AS SHOWN
NO.	1
	2
REVISION	
DATE	
SHEET TITLE	SCRRRA
	PROJECT TITLE
CLIENT	SCRRRA
	7 HURLBUTT ROAD GALES FERRY, CONNECTICUT 06335
DATE	2/19/26
	SCALE:
DRAWING NO.	AS SHOWN
NO.	1
	2
REVISION	
DATE	
SHEET TITLE	SCRRRA
	PROJECT TITLE
CLIENT	SCRRRA
	7 HURLBUTT ROAD GALES FERRY, CONNECTICUT 06335
DATE	2/19/26
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CLIENT	SCRRRA
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CLIENT	SCRRRA

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CONSTRUCTION NOTE:

- EXISTING CULVERT PIPE OUTLETS ARE UNDERSTOOD TO BE STABILIZED WITH EXISTING RIPRAP OUTLET PROTECTION ON THE COVANTA SITE. PIPES SHALL BE CLEANED AND OUTLETS INSPECTED. OUTLET AND RECEIVING SWALE SHALL BE REESTABLISHED AND REHABILITATED AS DEEMED NECESSARY.

LEGEND:

- 10' LIDAR CONTOUR
- 1' LIDAR CONTOUR
- 10' USGS GIS CONTOUR
- 2' USGS GIS CONTOUR
- PROPERTY LINE
- EASEMENT LINE
- LEASE LINE
- UTILITY POLE
- SMH SEWER MANHOLE
- WG WATER GATE VALVE
- ELEC— EXISTING 6" STEEL UG 69KV ELECTRIC
- E— EXISTING UG 13.8KV ELECTRIC CABLE
- T/E— EXISTING UG TELEPHONE & 13.8KV ELEC.
- W— EXISTING DIP WATER LINE
- SS— EXISTING 8" PVC SANITARY SEWER
- FM— EXISTING 4" SS FORCE MAIN
- PLOD— PROPOSED LIMIT OF DISTURBANCE
- SF— PROPOSED SILT FENCE

SURVEY NOTES:

- ALL FEATURES SHOWN ARE BASED ON COMPILING THE FOLLOWING SOURCES:
 - BOUNDARY, CONTOURS, ABOVE GROUND UTILITIES, ROADWAY AND ACCESS CORRIDOR INFORMATION IS BASED ON "IMPROVEMENT LOCATION SURVEY -PREPARED FOR- SOUTHEASTERN CONNECTICUT REGIONAL RESOURCES RECOVERY AUTHORITY, 132 CONNECTICUT ROUTE 12" DATED AUGUST 29, 2023, PREPARED BY ROB HELLSTROM LAND SURVEYING INC., HEBRON, CONNECTICUT.
 - CONTOUR INFORMATION NORTH OF ACCESS EASEMENT WERE DOWNLOADED FROM USGS GIS SHAPE FILES IN METERS AND TRANSLATED TO THE STATE PLANE IN FEET.
 - AN AERIAL PHOTO FROM AUTOCAD'S GEOLOCATION FEATURE WAS USED TO PLACE SOME STRUCTURES IN THE NAD83 CONNECTICUT STATE PLANE ZONE, US FOOT (CT83F).
 - DRAINAGE STRUCTURES NORTH OF BREWSTER ROAD ARE BASED ON A PLAN ENTITLED "EROSION & SEDIMENT CONTROL PLAN, DEVELOPED SITE" PREPARED BY AMERICAN REF-FUEL APPROXIMATE CIRA 1989-91.
- EXISTING UNDERGROUND UTILITIES (WATER, SEWER, 13.8KV ELECTRIC) SHOWN ARE APPROXIMATE FROM AS-BUILT SURVEY DRAWINGS FROM AMERICAN REF-FUEL AND NORWICH PUBLIC UTILITIES, DATED 1992 TO 2019.
- EXISTING 6" STEEL UG 69KV ELECTRIC PIPE LOCATION IS APPROXIMATE AND BASED ON DRAWING PREPARED BY NORTHEAST UTILITIES SERVICE CO, ENTITLED "PLAN AND PROFILE 69KV PIPE TYPE CABLE RECOVERY PLANT TO STA. 29+00", DWG. NO. 4365-EP1, DATED 4/20/90 FOR CONSTRUCTION, NO DATE FOR REV. 1 AS BUILT, STAMPED "AS BUILT" INFORMATION PROVIDED BY AMERICAN-REF FUEL
- SPECIAL FLOOD HAZARD AREA AE LIMIT LINE BASED ON PANEL 0352G, FIRM, NEW LONDON COUNTY, CONNECTICUT, ALL JURISDICTIONS. MAP NUMBER 09011C0352G, EFFECTIVE DATE JULY 18, 2011.

NO.	REVISION	DATE

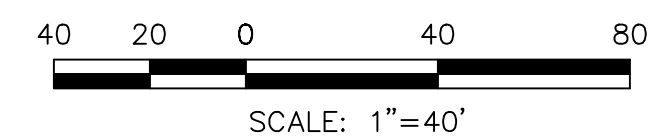
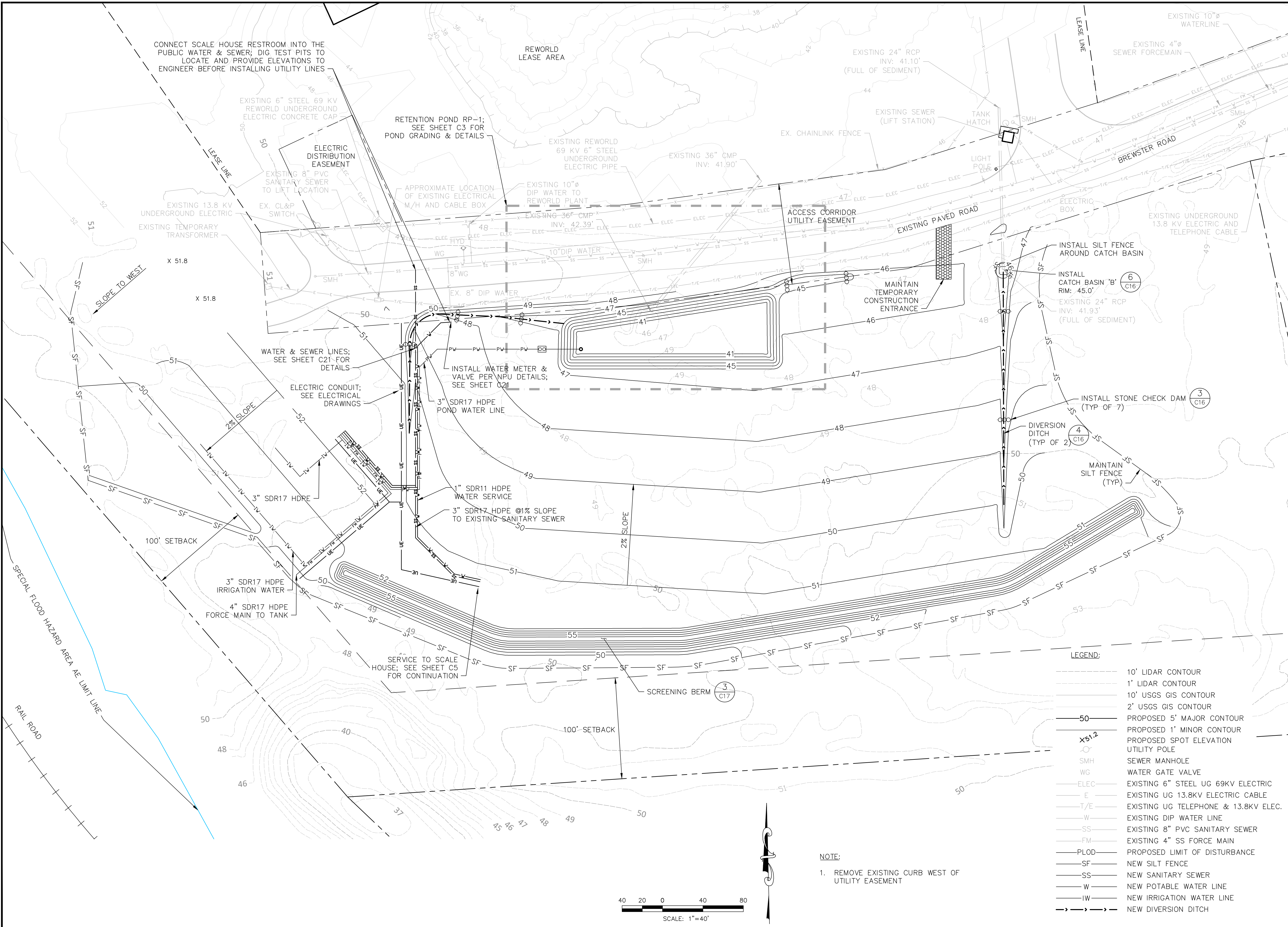
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 PROJECT TITLE **SCRRRA COMPOST FACILITY 132 ROUTE 12 TOWN OF PRESTON, CONN**

CLIENT **SOUTHEASTERN CONNECTICUT REGIONAL RESOURCE RECOVERY AUTHORITY 7 HURLBUTT ROAD GALES FERRY, CONNECTICUT 06335**

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.
 4 EXECUTIVE BLVD, SUITE 303, SUFFERN, NY 10981
 PH. (845) 357-1510 FAX. (845) 357-1049
 PROJECT NO. 20230718.04
 DRAWN BY: STLY G/A: RWH/MS
 CHECK BY: MJB APP. BY: GPM

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 DRAWING NO.

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NOTE:
 1. REMOVE EXISTING CURB WEST OF UTILITY EASEMENT

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 SUBGRADE & DRAINAGE PLAN

PROJECT TITLE
 SCRRRA COMPOST FACILITY
 132 ROUTE 12
 TOWN OF PRESTON, CONN

CLIENT
 SOUTHEASTERN CONNECTICUT REGIONAL
 RESOURCE RECOVERY AUTHORITY
 7 HURLBUTT ROAD
 GALES FERRY, CONNECTICUT 06335

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS, INC.
 4 EXECUTIVE BLDG. SUITE 305, SUFFERN, NY 10901
 PH. (845) 357-1510 FAX. (845) 357-1049

PROJ. NO. 02220718.04
 DRAWN BY: STLY
 CHECK BY: MJB
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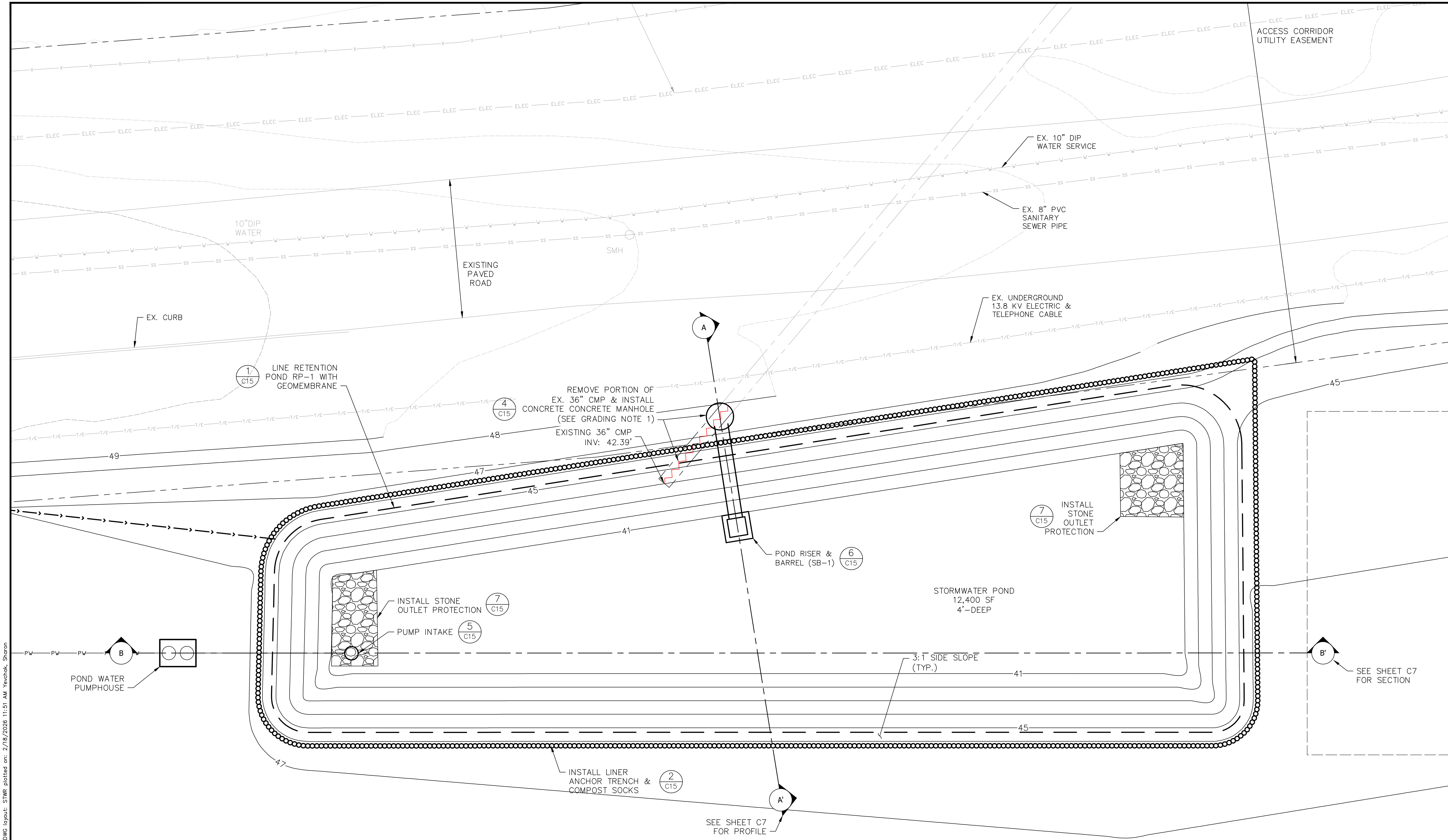
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DATE:
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SCALE:
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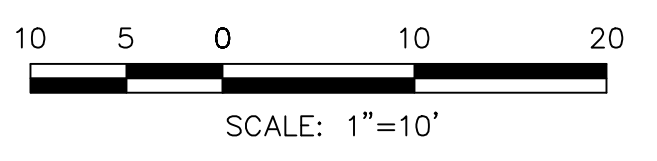


GRADING NOTES:

1. CONCRETE JUNCTION BOX SHALL BE INSTALLED PER CTDOT STANDARD DETAIL HW-586_04 PRECAST CATCH BASIN/ROUND STRUCTURE WITH STORMWATER MANHOLE COVER AT RIM EL=48.0', PIPE INVERT APPROX. EL.=42.3'.
2. EXISTING CULVERT PIPE OUTLETS ARE UNDERSTOOD TO BE STABILIZED WITH EXISTING RIPRAP OUTLET PROTECTION ON THE COVANTA SITE. PIPES SHALL BE CLEANED AND OUTLETS INSPECTED. OUTLET AND RECEIVING SWALE SHALL BE REESTABLISHED AND REHABILITATED AS DEEMED NECESSARY.

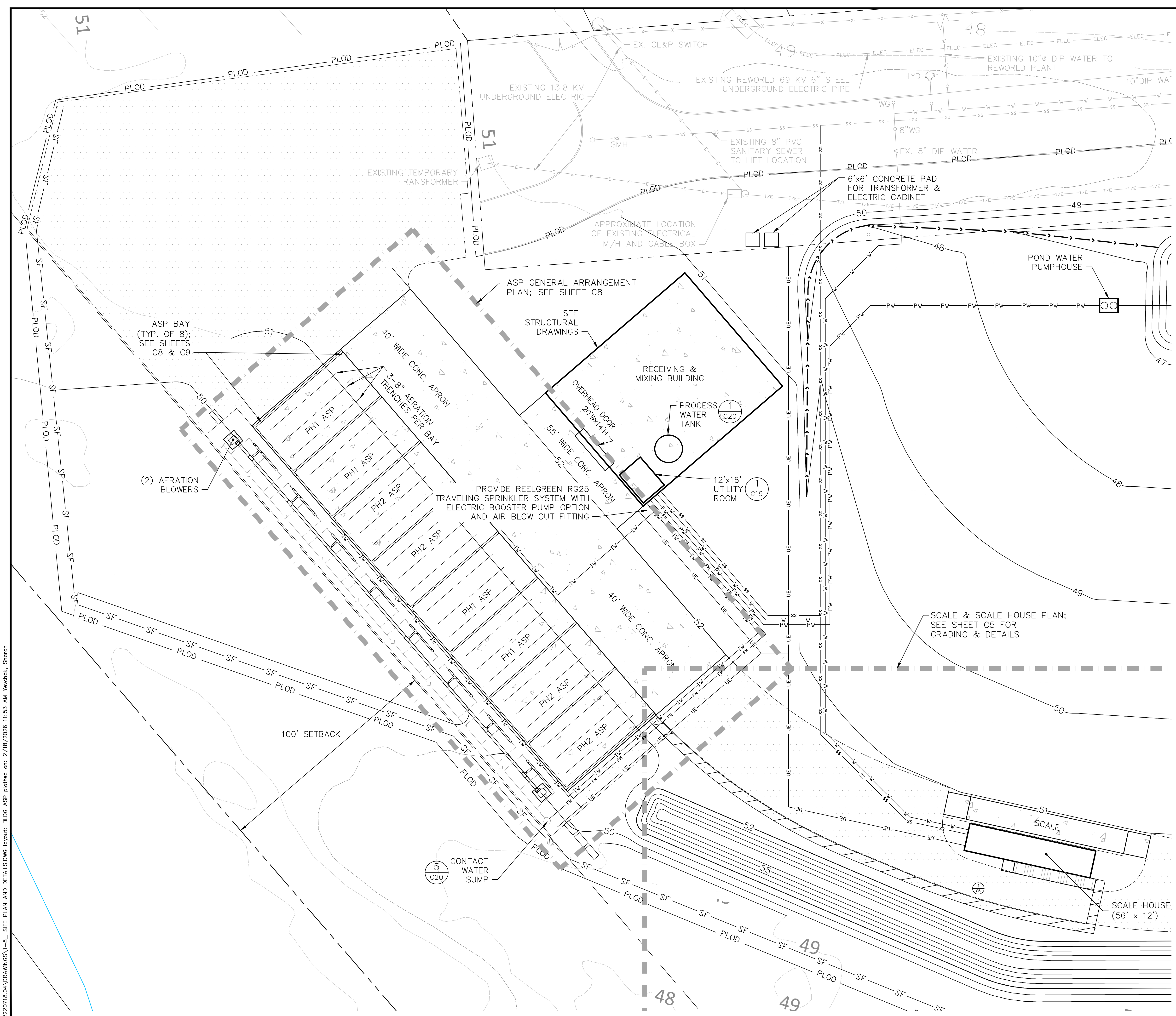
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- 1' LIDAR CONTOUR
- 10' USGS GIS CONTOUR
- 2' USGS GIS CONTOUR
- 50- PROPOSED 5' MAJOR CONTOUR
- PROPOSED 1' MINOR CONTOUR
- x51.2 PROPOSED SPOT ELEVATION
- x- NEW CHAINLINK SECURITY FENCE



SHEET TITLE STORMWATER & POND PLAN	NO.	REVISION	DATE
PROJECT TITLE SCRRRA COMPOST FACILITY 132 ROUTE 12 TOWN OF PRESTON, CONN			
CLIENT SOUTHEASTERN CONNECTICUT REGIONAL RESOURCE RECOVERY AUTHORITY 7 HURLBUTT ROAD GALES FERRY, CONNECTICUT 06335			
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SCALE: AS SHOWN			
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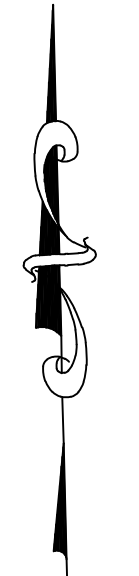
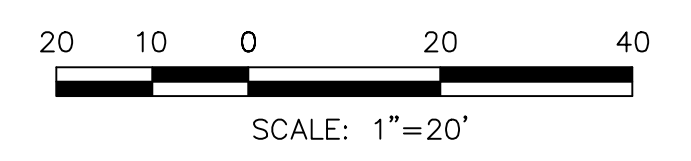
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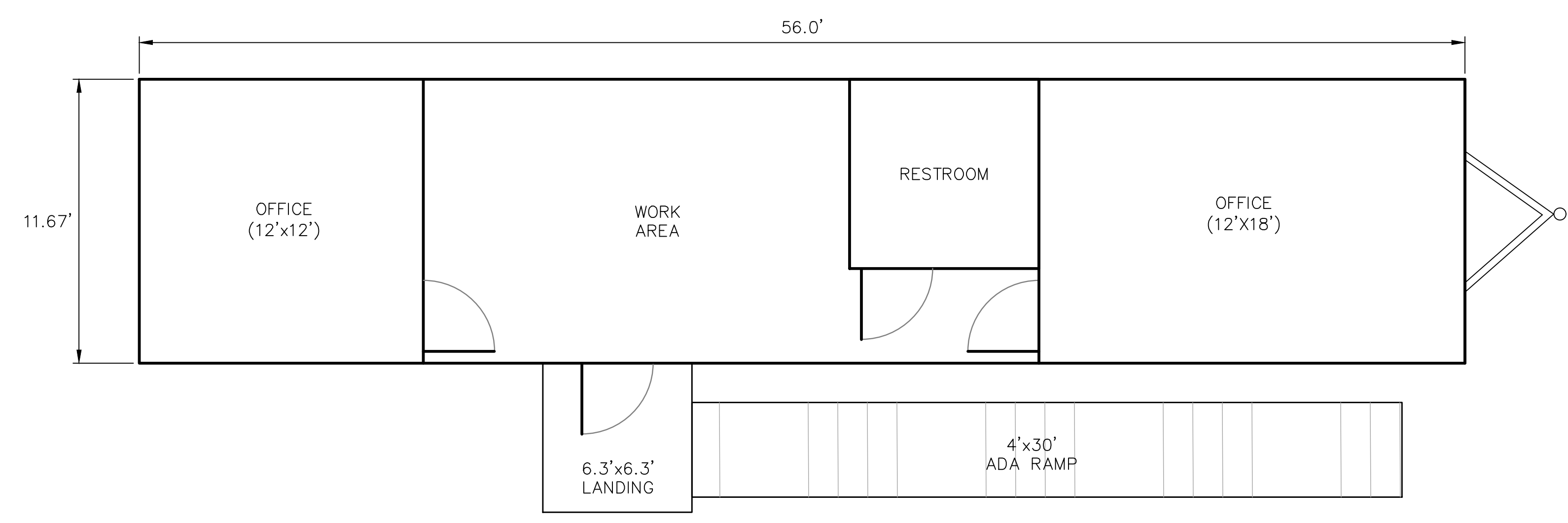
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	1' LIDAR CONTOUR
	10' USGS GIS CONTOUR
	2' USGS GIS CONTOUR
	PROPOSED 5' MAJOR CONTOUR
	PROPOSED 1' MINOR CONTOUR
	PROPOSED SPOT ELEVATION
	UTILITY POLE
	SEWER MANHOLE
	WATER GATE VALVE
	EXISTING 6" STEEL UG 69KV ELECTRIC
	EXISTING UG 13.8KV ELECTRIC CABLE
	EXISTING UG TELEPHONE & 13.8KV ELEC.
	EXISTING DIP WATER LINE
	EXISTING 8" PVC SANITARY SEWER
	EXISTING 4" SS FORCE MAIN
	PROPOSED LIMIT OF DISTURBANCE
	NEW SILT FENCE
	NEW SANITARY SEWER
	NEW POTABLE WATER LINE
	NEW IRRIGATION WATER LINE
	NEW DIVERSION DITCH

DATE	REVISION	NO.			
NO.	NO.	NO.	NO.	NO.	NO.
SHEET TITLE					
BUILDING & ASP PLAN					
PROJECT TITLE					
SCRRRA COMPOST FACILITY					
132 ROUTE 12					
TOWN OF PRESTON, CONN					
CLIENT					
SOUTHEASTERN CONNECTICUT REGIONAL					
RESOURCE RECOVERY AUTHORITY					
7 HURLBUTT ROAD					
GALES FERRY, CONNECTICUT 06335					
SCS ENGINEERS					
STEARNS, CONRAD AND SCHMIDT					
CONSULTING ENGINEERS, INC.					
4 EXECUTIVE BLDG. SUITE 305, SUFFERN, NY 10901					
PH. (845) 357-1510 FAX. (845) 357-1049					
DRAWN BY: SHY	C/A: RWB	APP. BY: GPM			
CHKD BY: MJB	DATE: 2/19/26				
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DATE: 2/19/26					
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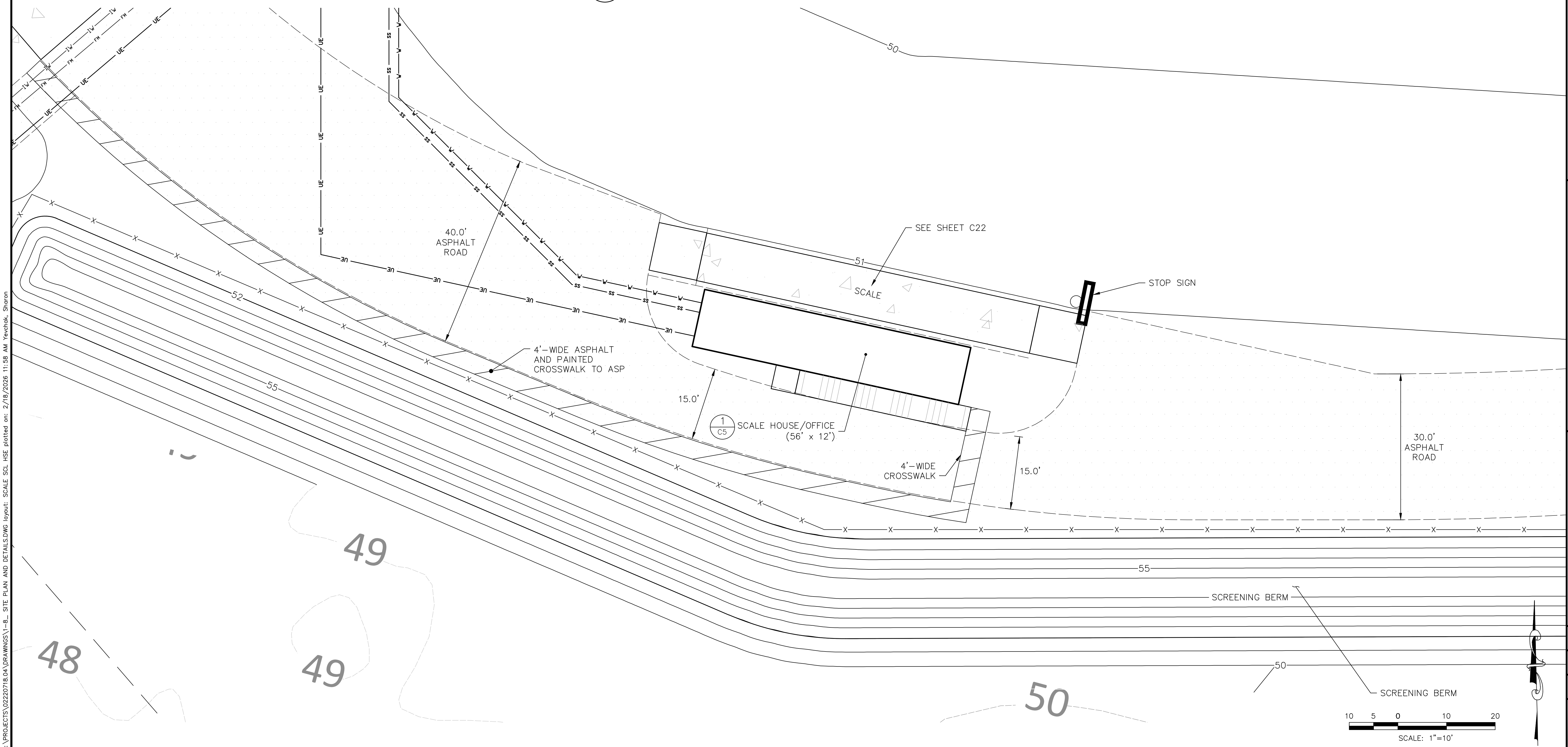
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1 SCALE HOUSE LAYOUT
C5 NTS

LEGEND:

-----	10' LIDAR CONTOUR
-----	1' LIDAR CONTOUR
-----	10' USGS GIS CONTOUR
-----	2' USGS GIS CONTOUR
-----	50 PROPOSED 5' MAJOR CONTOUR
-----	PROPOSED 1' MINOR CONTOUR
○	PROPOSED SPOT ELEVATION
○	UTILITY POLE
○	SEWER MANHOLE
WG	WATER GATE VALVE
ELEC	EXISTING 6" STEEL UG 69KV ELECTRIC
E	EXISTING UG 13.8KV ELECTRIC CABLE
T/E	EXISTING UG TELEPHONE & 13.8KV ELEC.
W	EXISTING DIP WATER LINE
SS	EXISTING 8" PVC SANITARY SEWER
FM	EXISTING 4" SS FORCE MAIN
PLOD	PROPOSED LIMIT OF DISTURBANCE
SF	NEW SILT FENCE
SS	NEW SANITARY SEWER
W	NEW POTABLE WATER LINE
IW	NEW IRRIGATION WATER LINE
→	NEW DIVERSION DITCH



NO.	REVISION	DATE

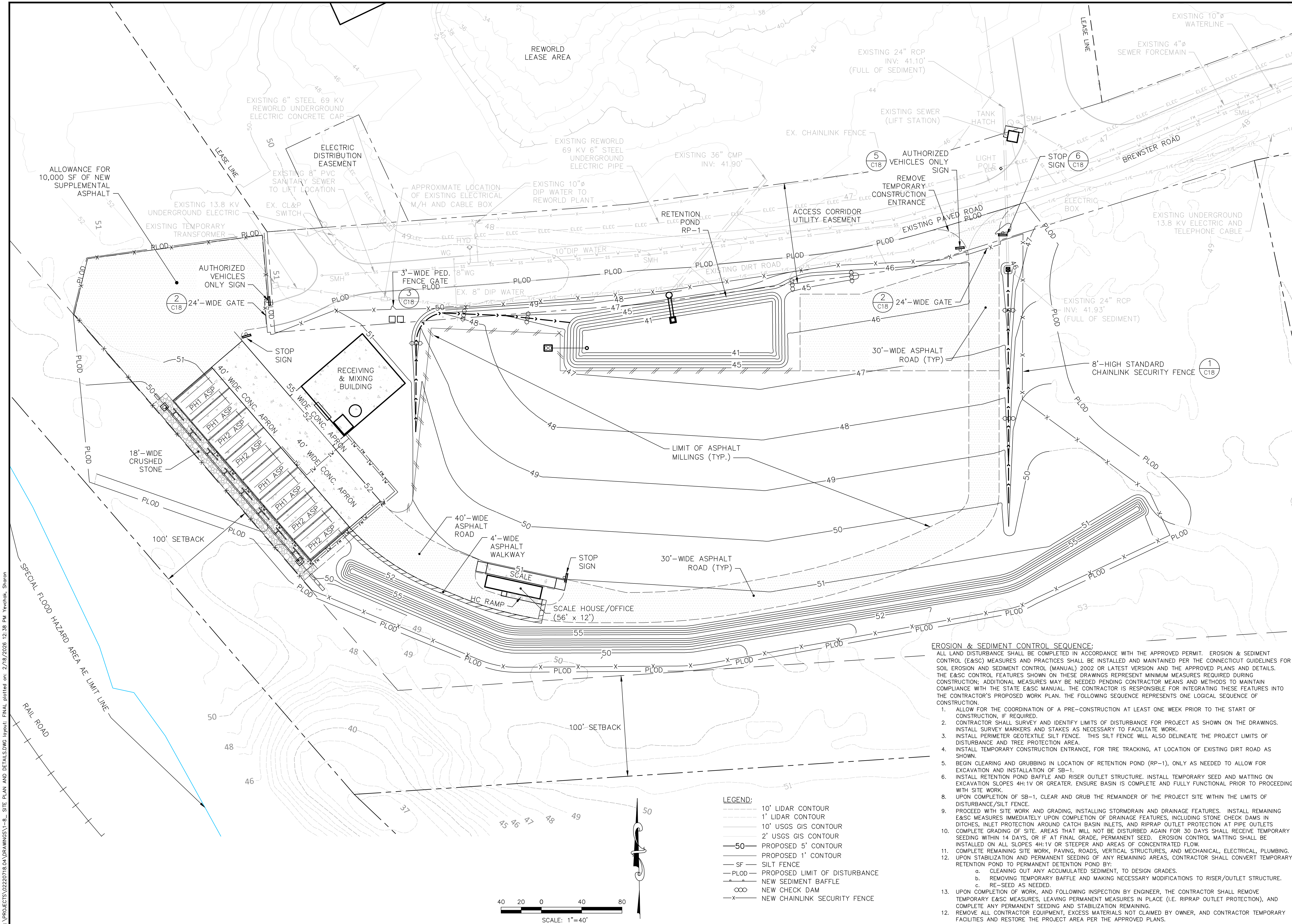
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 PROJECT TITLE: SCRRRA COMPOST FACILITY
 132 ROUTE 12
 TOWN OF PRESTON, CONN

CLIENT: SOUTHEASTERN CONNECTICUT REGIONAL RESOURCE RECOVERY AUTHORITY
 7 HURLBUTT ROAD
 GALES FERRY, CONNECTICUT 06335

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.
 4 EXECUTIVE BLDG. SUITE 305, SUFFERN, NY 10901
 PH. (845) 357-1510 FAX. (845) 357-1049

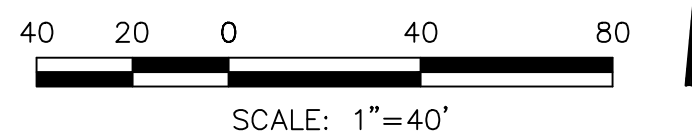
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 DWG. BY: STLY
 C/A. RW: JDS
 CRK. BY: GPM
 APP. BY: GPM

CADD FILE: 1-8_ SITE PLAN and DETAILS
 DATE: 2/19/26
 SCALE: AS SHOWN
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- EROSION & SEDIMENT CONTROL SEQUENCE:**
 ALL LAND DISTURBANCE SHALL BE COMPLETED IN ACCORDANCE WITH THE APPROVED PERMIT. EROSION & SEDIMENT CONTROL (E&SC) MEASURES AND PRACTICES SHALL BE INSTALLED AND MAINTAINED PER THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL (MANUAL) 2002 OR LATEST VERSION AND THE APPROVED PLANS AND DETAILS. THE E&SC CONTROL FEATURES SHOWN ON THESE DRAWINGS REPRESENT MINIMUM MEASURES REQUIRED DURING CONSTRUCTION; ADDITIONAL MEASURES MAY BE NEEDED PENDING CONTRACTOR MEANS AND METHODS TO MAINTAIN COMPLIANCE WITH THE STATE E&SC MANUAL. THE CONTRACTOR IS RESPONSIBLE FOR INTEGRATING THESE FEATURES INTO THE CONTRACTOR'S PROPOSED WORK PLAN. THE FOLLOWING SEQUENCE REPRESENTS ONE LOGICAL SEQUENCE OF CONSTRUCTION.
1. ALLOW FOR THE COORDINATION OF A PRE-CONSTRUCTION AT LEAST ONE WEEK PRIOR TO THE START OF CONSTRUCTION, IF REQUIRED.
 2. CONTRACTOR SHALL SURVEY AND IDENTIFY LIMITS OF DISTURBANCE FOR PROJECT AS SHOWN ON THE DRAWINGS. INSTALL SURVEY MARKERS AND STAKES AS NECESSARY TO FACILITATE WORK.
 3. INSTALL PERIMETER GEOTEXTILE SILT FENCE. THIS SILT FENCE WILL ALSO DELINEATE THE PROJECT LIMITS OF DISTURBANCE AND TREE PROTECTION AREA.
 4. INSTALL TEMPORARY CONSTRUCTION ENTRANCE, FOR TIRE TRACKING, AT LOCATION OF EXISTING DIRT ROAD AS SHOWN.
 5. BEGIN CLEARING AND GRUBBING IN LOCATION OF RETENTION POND (RP-1), ONLY AS NEEDED TO ALLOW FOR EXCAVATION AND INSTALLATION OF SB-1.
 6. INSTALL RETENTION POND BAFFLE AND RISER OUTLET STRUCTURE. INSTALL TEMPORARY SEED AND MATTING ON EXCAVATION SLOPES 4H:1V OR GREATER. ENSURE BASIN IS COMPLETE AND FULLY FUNCTIONAL PRIOR TO PROCEEDING WITH SITE WORK.
 8. UPON COMPLETION OF SB-1, CLEAR AND GRUB THE REMAINDER OF THE PROJECT SITE WITHIN THE LIMITS OF DISTURBANCE/SILT FENCE.
 9. PROCEED WITH SITE WORK AND GRADING, INSTALLING STORMDRAIN AND DRAINAGE FEATURES. INSTALL REMAINING E&SC MEASURES IMMEDIATELY UPON COMPLETION OF DRAINAGE FEATURES, INCLUDING STONE CHECK DAMS IN DITCHES, INLET PROTECTION AROUND CATCH BASIN INLETS, AND RIPRAP OUTLET PROTECTION AT PIPE OUTLETS.
 10. COMPLETE GRADING OF SITE. AREAS THAT WILL NOT BE DISTURBED AGAIN FOR 30 DAYS SHALL RECEIVE TEMPORARY SEEDING WITHIN 14 DAYS, OR IF AT FINAL GRADE, PERMANENT SEED. EROSION CONTROL MATTING SHALL BE INSTALLED ON ALL SLOPES 4H:1V OR STEEPER AND AREAS OF CONCENTRATED FLOW.
 11. COMPLETE REMAINING SITE WORK, PAVING, ROADS, VERTICAL STRUCTURES, AND MECHANICAL, ELECTRICAL, PLUMBING.
 12. UPON STABILIZATION AND PERMANENT SEEDING OF ANY REMAINING AREAS, CONTRACTOR SHALL CONVERT TEMPORARY RETENTION POND TO PERMANENT DETENTION POND BY:
 - a. CLEANING OUT ANY ACCUMULATED SEDIMENT, TO DESIGN GRADES.
 - b. REMOVING TEMPORARY BAFFLE AND MAKING NECESSARY MODIFICATIONS TO RISER/OUTLET STRUCTURE.
 - c. RE-SEED AS NEEDED.
 13. UPON COMPLETION OF WORK, AND FOLLOWING INSPECTION BY ENGINEER, THE CONTRACTOR SHALL REMOVE TEMPORARY E&SC MEASURES, LEAVING PERMANENT MEASURES IN PLACE (I.E. RIPRAP OUTLET PROTECTION), AND COMPLETE ANY PERMANENT SEEDING AND STABILIZATION REMAINING.
 12. REMOVE ALL CONTRACTOR EQUIPMENT, EXCESS MATERIALS NOT CLAIMED BY OWNER, AND CONTRACTOR TEMPORARY FACILITIES AND RESTORE THE PROJECT AREA PER THE APPROVED PLANS.

- LEGEND:**
- 10' LIDAR CONTOUR
 - 1' LIDAR CONTOUR
 - 10' USGS GIS CONTOUR
 - 2' USGS GIS CONTOUR
 - 50 PROPOSED 5' CONTOUR
 - PROPOSED 1' CONTOUR
 - SF SILT FENCE
 - PL-OD PROPOSED LIMIT OF DISTURBANCE
 - NEW SEDIMENT BAFFLE
 - NEW CHECK DAM
 - NEW CHAINLINK SECURITY FENCE



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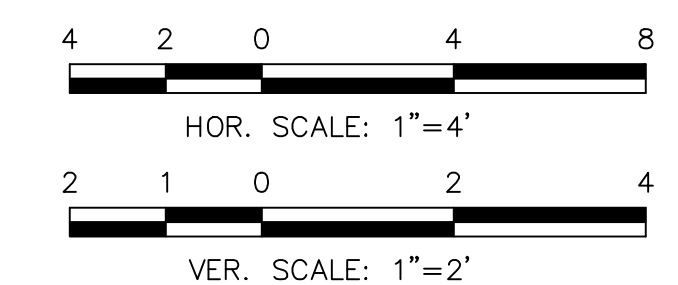
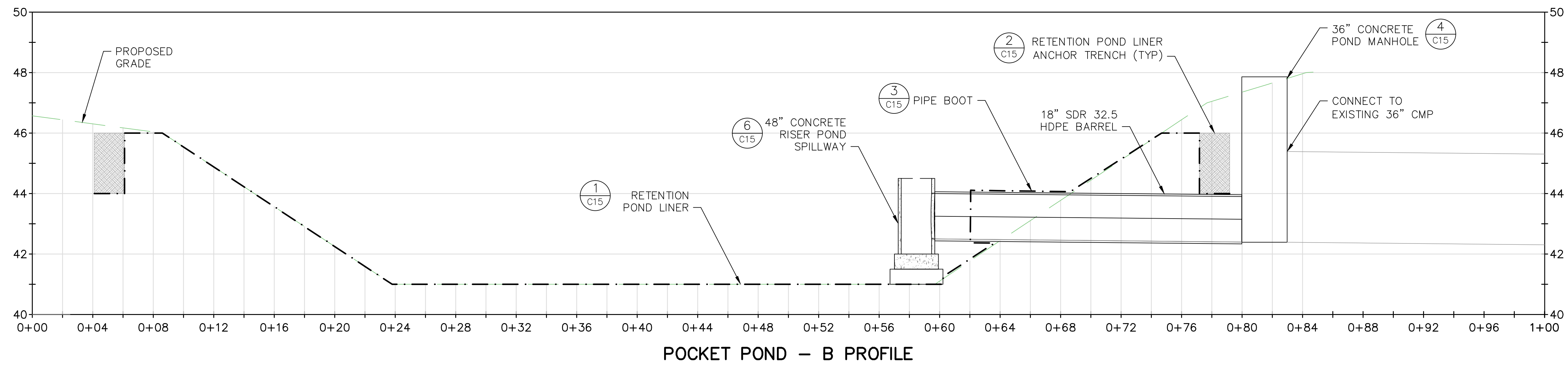
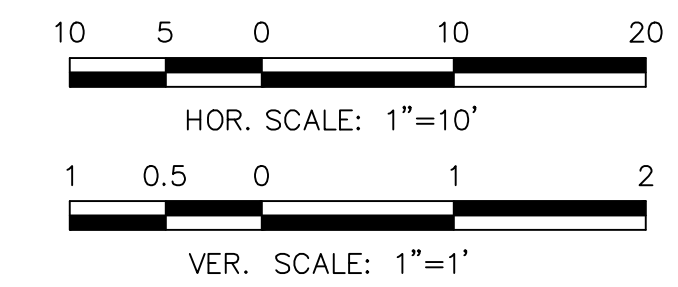
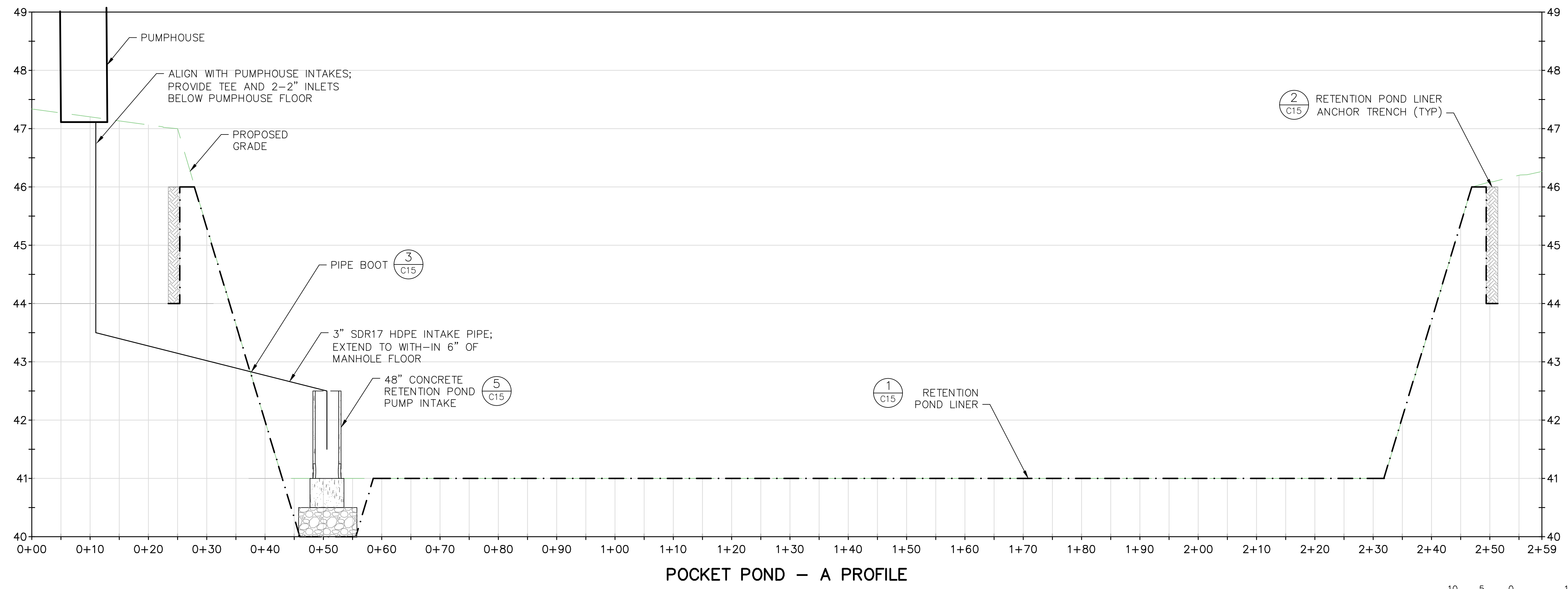
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 PROJECT TITLE
SCRRRA COMPOST FACILITY
132 ROUTE 12
TOWN OF PRESTON, CONN

CLIENT
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RESOURCE RECOVERY AUTHORITY
7 HURLBUTT ROAD
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 C/O A. RW. B. SSK, B. M.J.B.
 APP. BY: M.J.B. G.P.M.

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 DATE:
 2/19/26
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 DRAWING NO.
C6 of 24

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 PROJECT TITLE: SCRRA COMPOST FACILITY
 132 ROUTE 12
 TOWN OF PRESTON, CONN

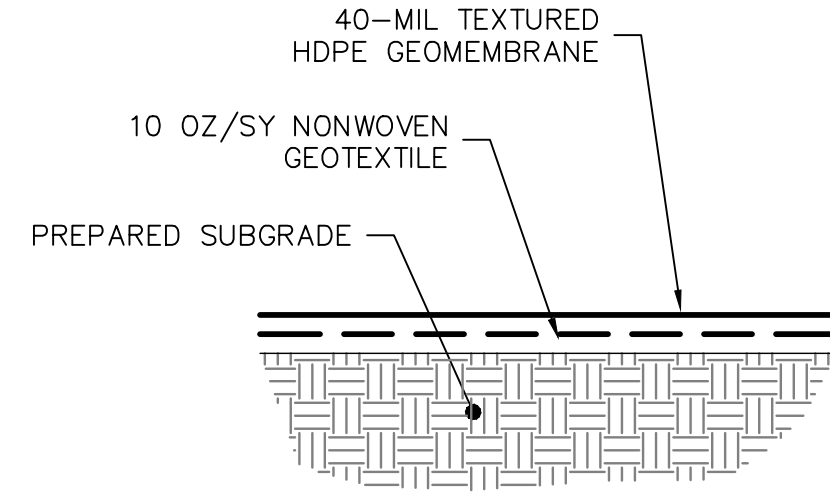
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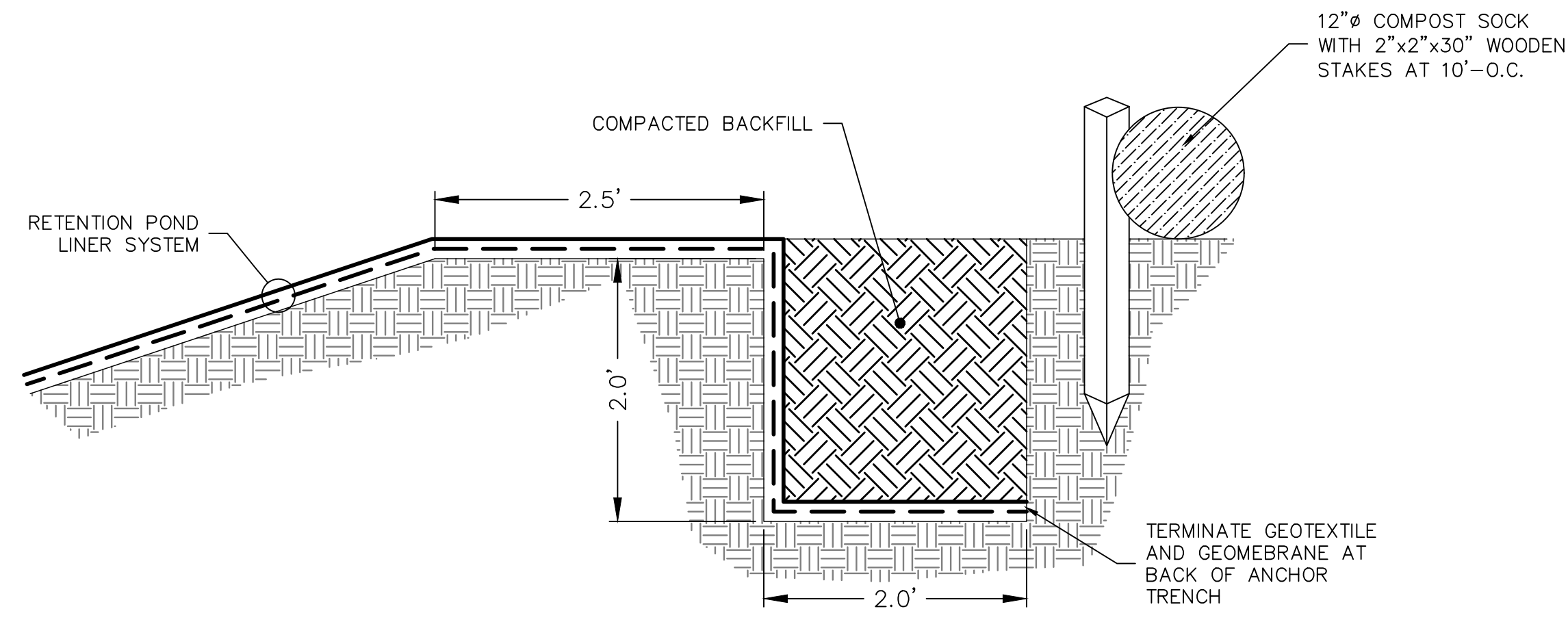
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 DRAWN BY: CHY
 CHECKED BY: MJB
 APPR. BY: CPM

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 DRAWING NO. C7 of 24

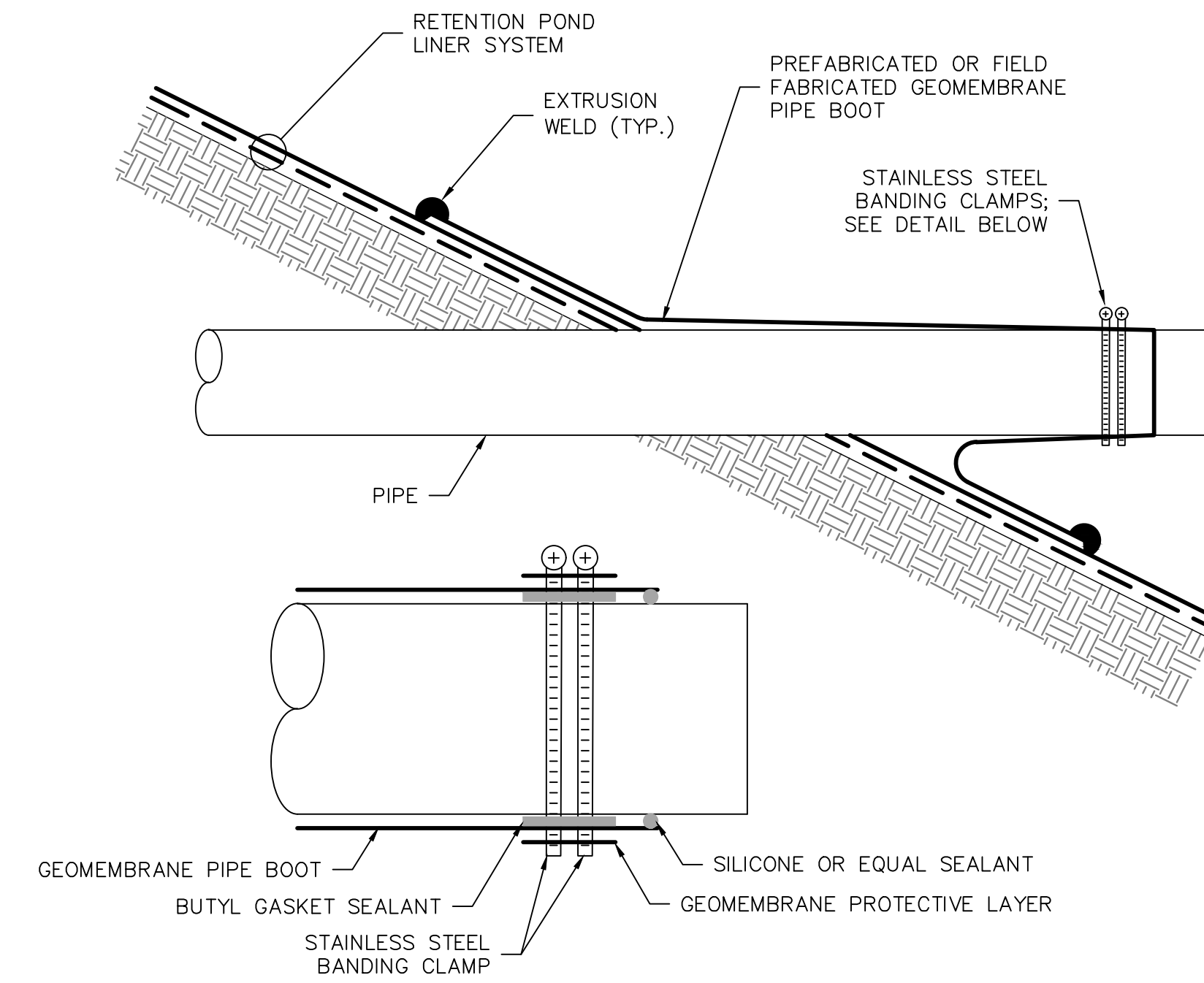
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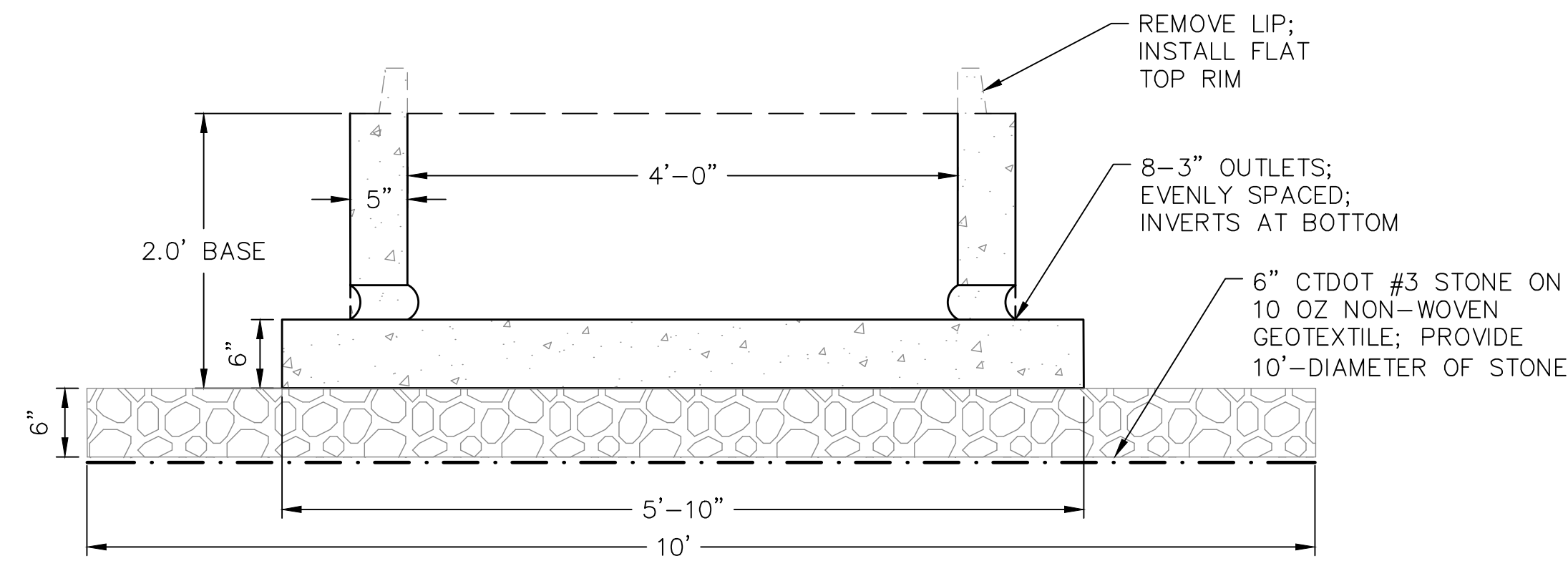
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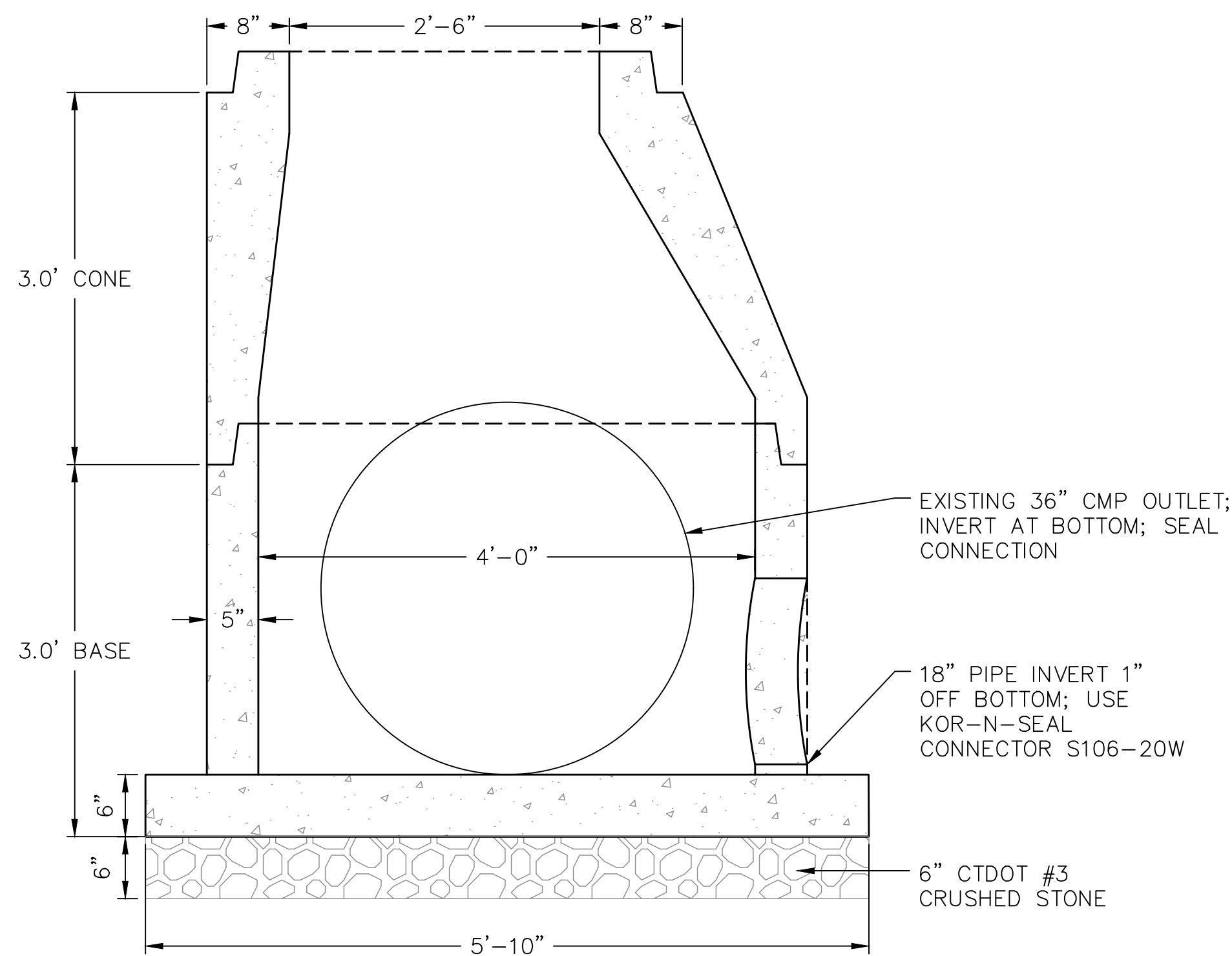


3 PIPE BOOT
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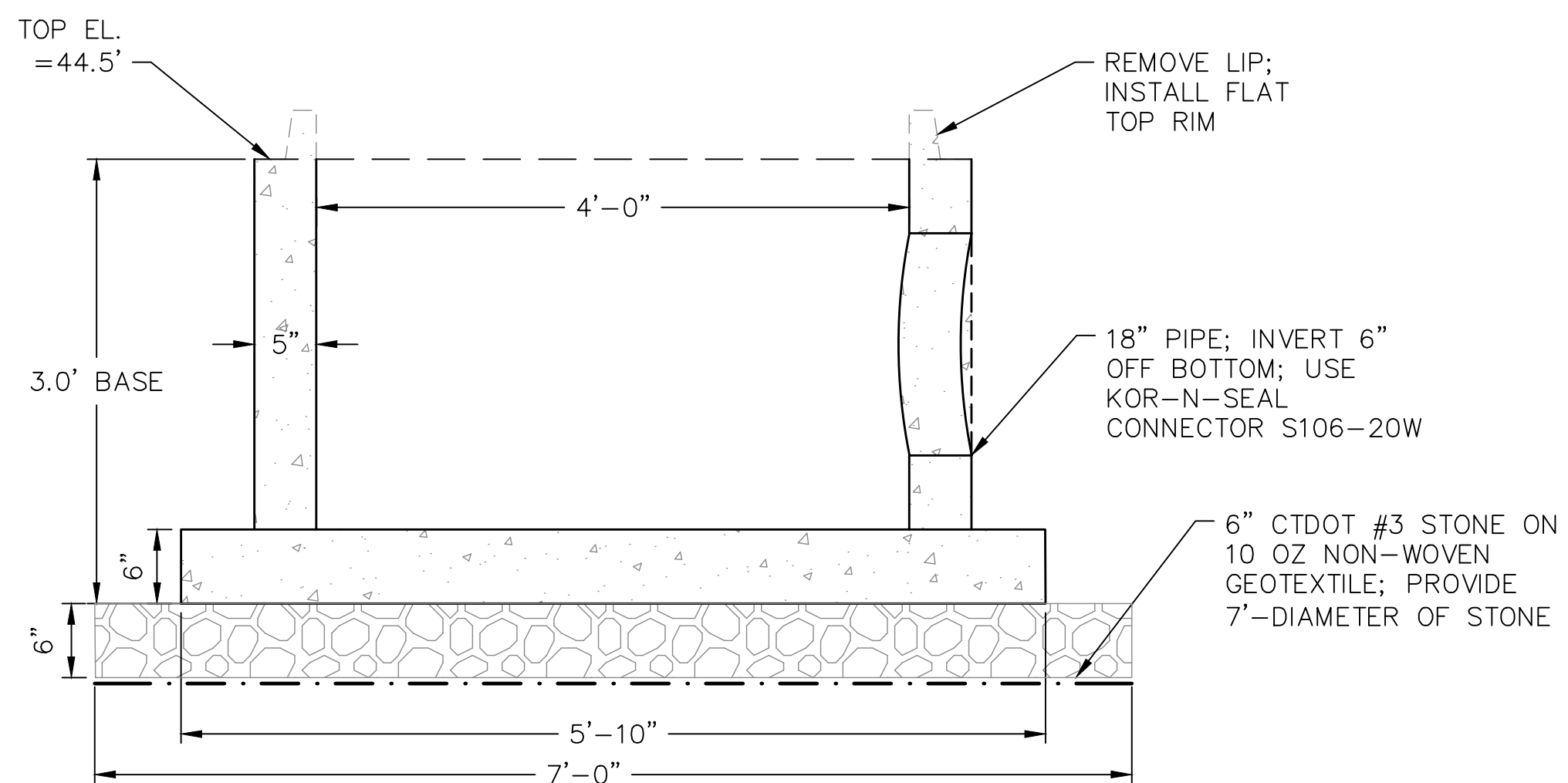
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 2. REINFORCED STEEL CONFORMS TO THE LATEST A615 AND A185 SPEC.
 3. MANHOLE DESIGN CONFORMS TO LATEST ATSM C478 SPEC.

5 RETENTION POND PUMP INTAKE
C15 NOT TO SCALE



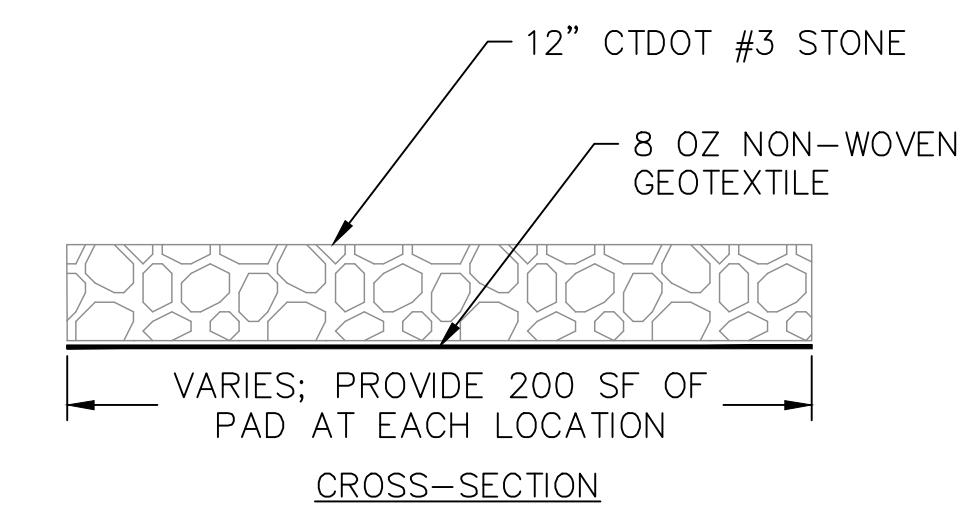
- NOTES:**
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 2. REINFORCED STEEL CONFORMS TO THE LATEST A615 AND A185 SPEC.
 3. MANHOLE DESIGN CONFORMS TO LATEST ATSM C478 SPEC.
 4. PROVIDE CAST IRON MANHOLE FRAME AND COVER

4 RETENTION POND MANHOLE
C15 NOT TO SCALE



- NOTES:**
1. CONCRETE COMPRESSION STRENGTH-5000 PSI @ 28-DAYS.
 2. REINFORCED STEEL CONFORMS TO THE LATEST A615 AND A185 SPEC.
 3. MANHOLE DESIGN CONFORMS TO LATEST ATSM C478 SPEC.

6 RETENTION POND SPILLWAY
C15 NOT TO SCALE



7 RETENTION POND OUTLET PROTECTION
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RETENTION POND LINER DETAILS

PROJECT TITLE
SCRRRA COMPOST FACILITY
132 ROUTE 12
TOWN OF PRESTON, CONN

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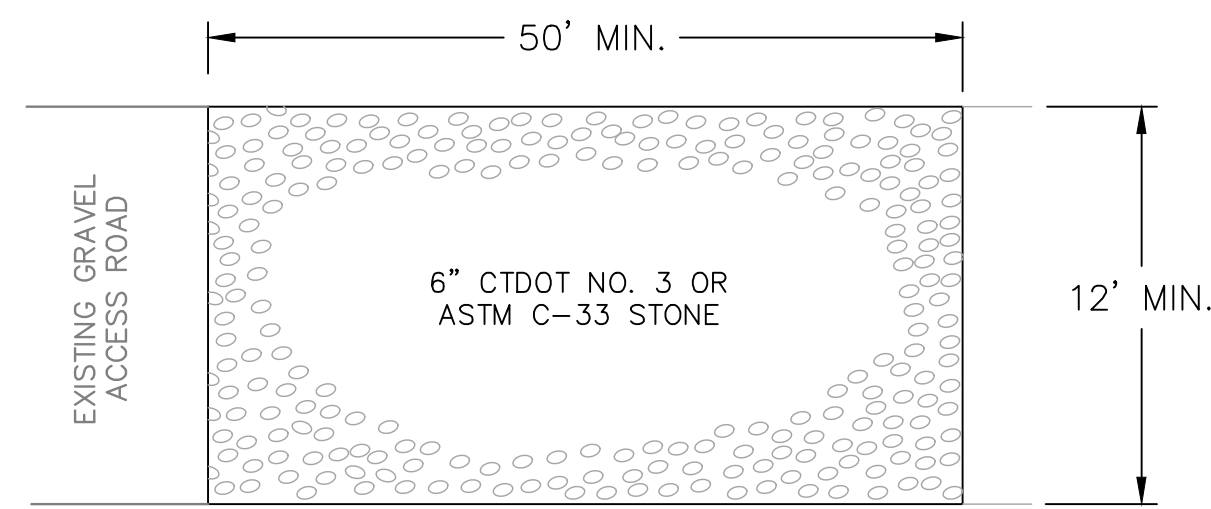
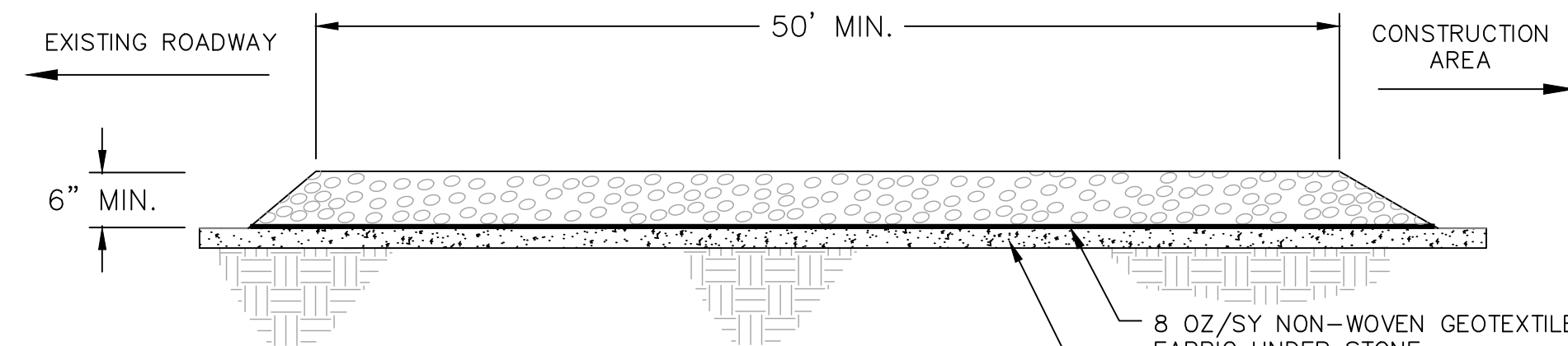
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CHK. BY: M.J.B.
APP. BY: GPM

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BASIN LINER DETAILS

DATE:
2/19/26

SCALE:
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DRAWING NO.

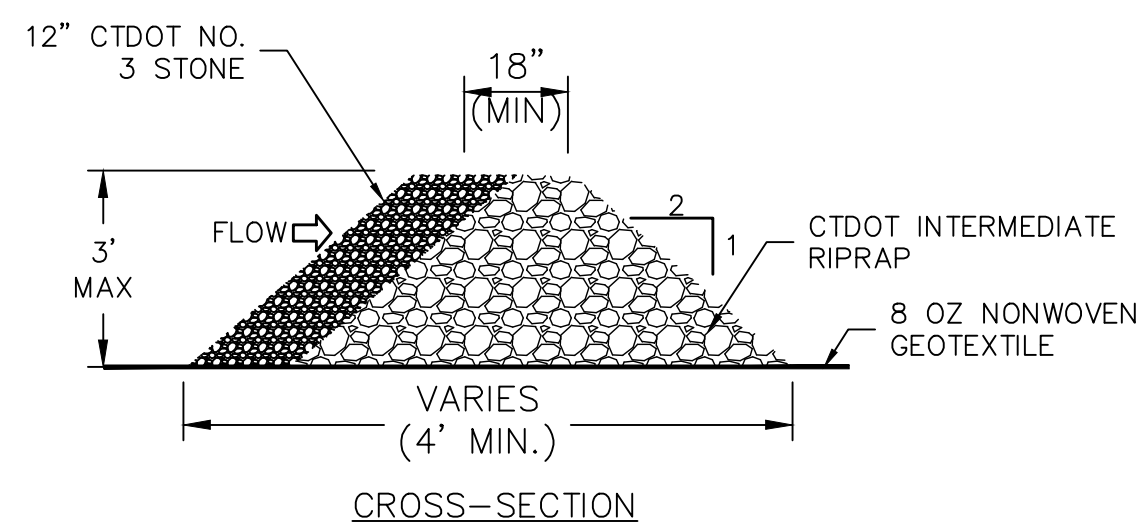


PLAN VIEW

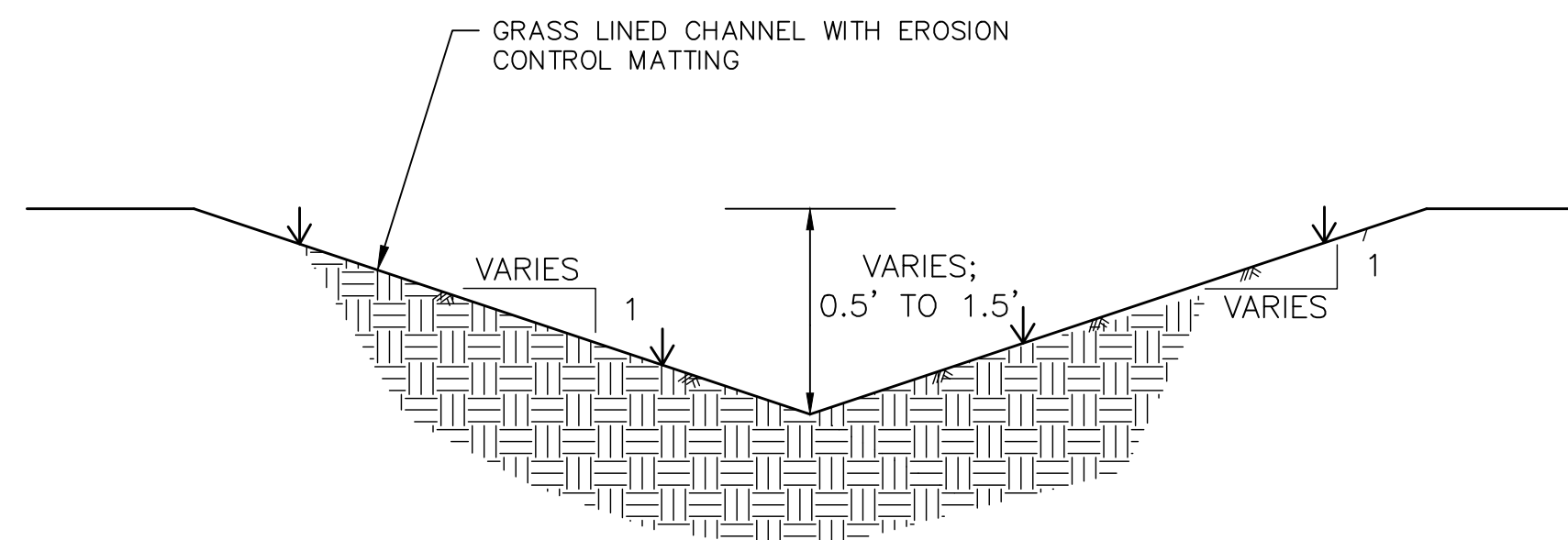
NOTES:

1. PRIOR TO INSTALLATION, THE AREA WHERE THE CONSTRUCTION ENTRANCE WILL BE INSTALLED SHALL BE CLEARED OF ALL VEGETATION, ROOTS, TOPSOIL, AND OTHER OBJECTIONABLE MATERIAL.
2. IF CONSTRUCTION ON THE SITE IS SUCH THAT MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLE MUST BE WASHED BEFORE EXITING THE SITE TO THE PUBLIC ROADWAY.
3. TO PREVENT MUD OR SEDIMENT FROM THE LEAVING THE CONSTRUCTION SITE, PERIODIC PLACEMENT OF ADDITIONAL 2-3" STONE ON TOP OF THE PAD SHALL BE COMPLETED.
4. AFTER SITE IS STABILIZED WITH VEGETATION OR PERMANENT GROUND COVER, REMOVE TEMPORARY CONSTRUCTION ENTRANCE/EXIT.

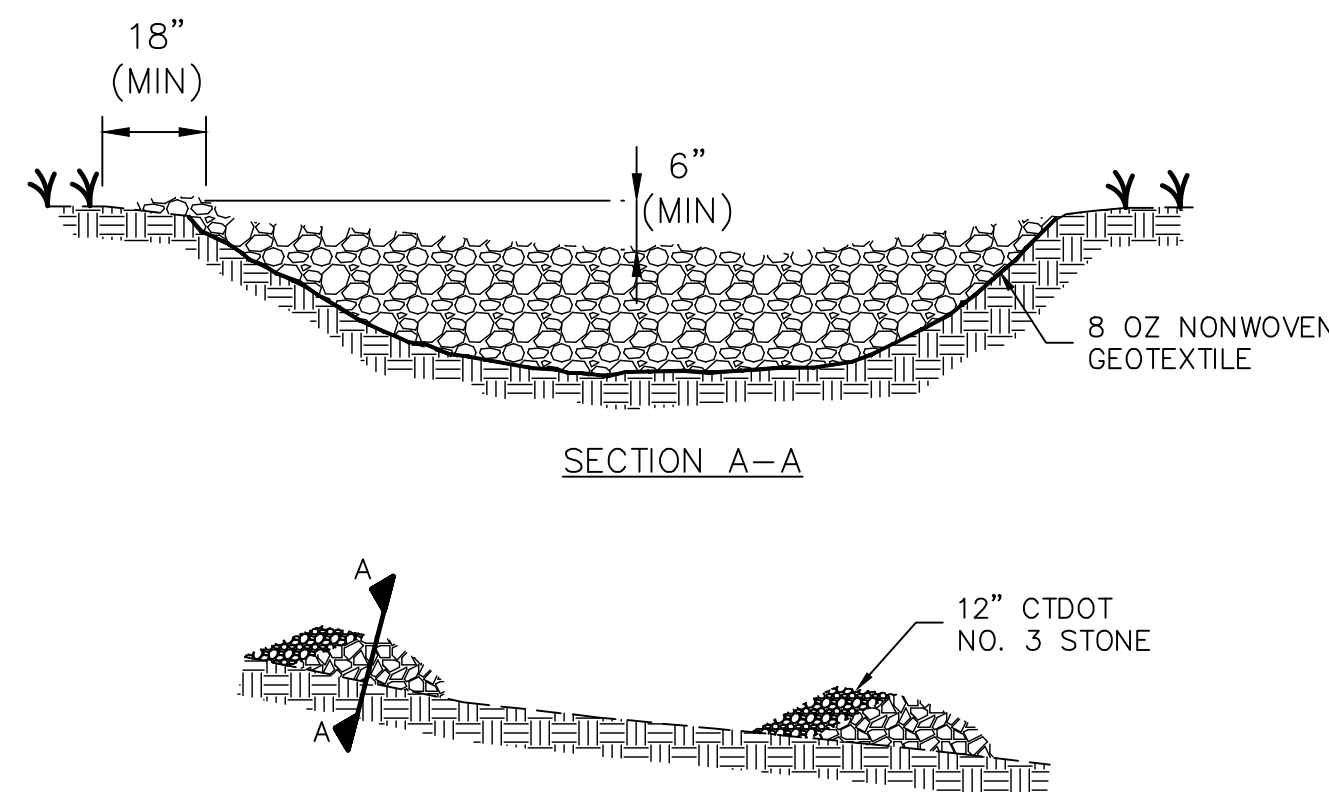
1 TEMPORARY CONSTRUCTION ENTRANCE
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CROSS-SECTION

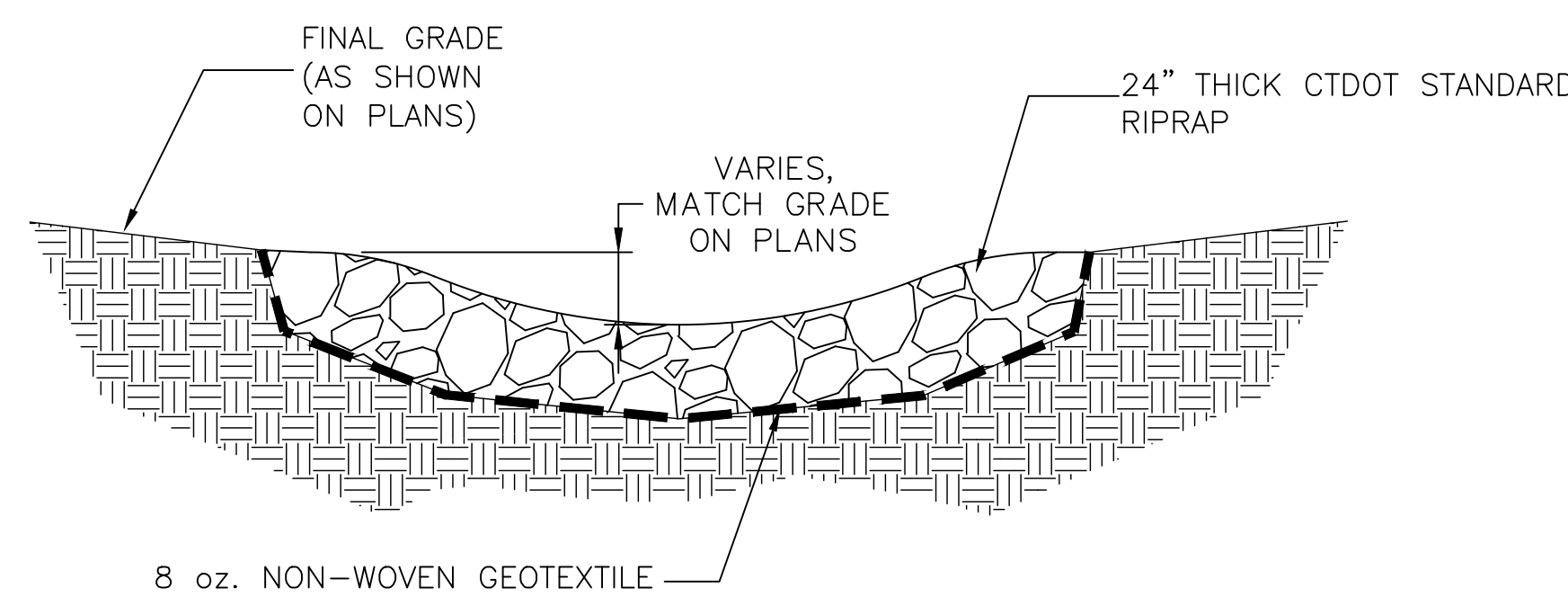


4 DIVERSION DITCH
C16 NO SCALE



SECTION A-A

3 STONE CHECK DAM
C16 NO SCALE

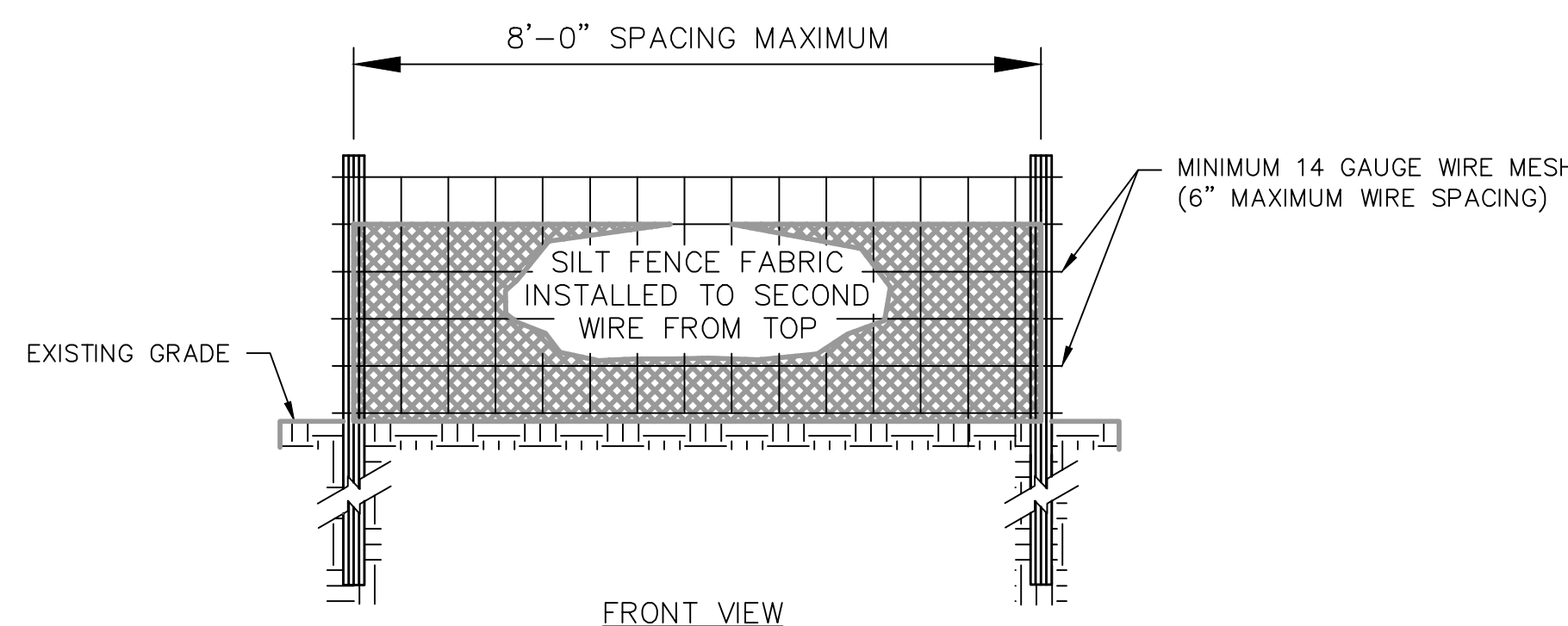


SECTION

5 RIPRAP STABILIZATION
C16 NO SCALE

NOTES:

1. PROVIDE RIPRAP EXTENTS TO THE LIMITS SHOWN IN PLAN VIEW.
2. TOP OF RIPRAP SHALL BE FLUSH WITH STRUCTURE INVERT, IF APPLICABLE, AND MATCH FINISHED GRADE SHOWN ON GRADING PLAN.

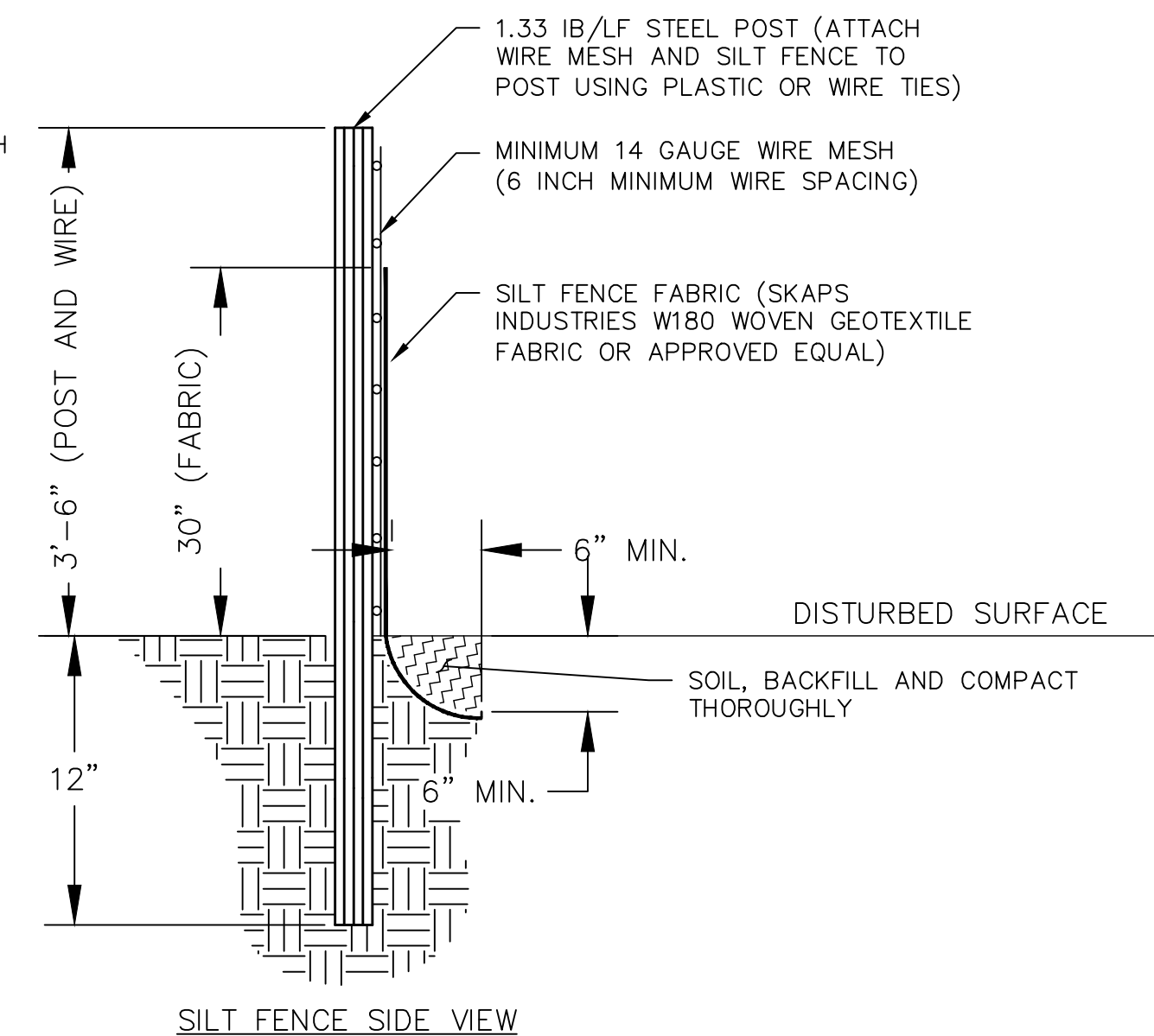


FRONT VIEW

SILT FENCE MAINTENANCE NOTES

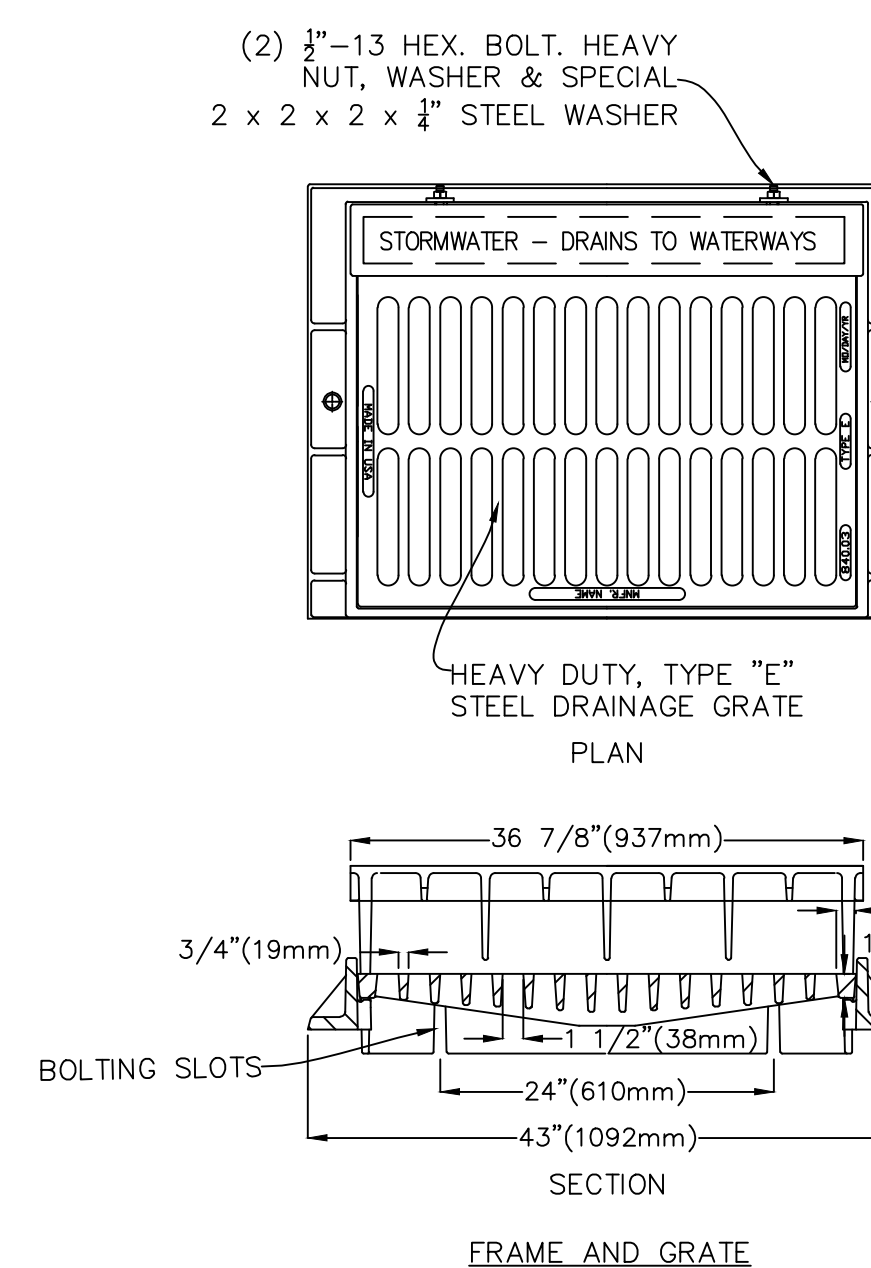
1. INSPECT SILT FENCE AT LEAST WEEKLY AND AFTER EACH RAINFALL 0.5 INCHES OR GREATER. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. SHOULD THE FABRIC OF A SILT FENCE SECTION COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING SEDIMENT REMOVAL.
4. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT WITH VEGETATION AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED WITH VEGETATION OR PERMANENT GROUND COVER.

2 GEOTEXTILE SILT FENCE
C16 NO SCALE



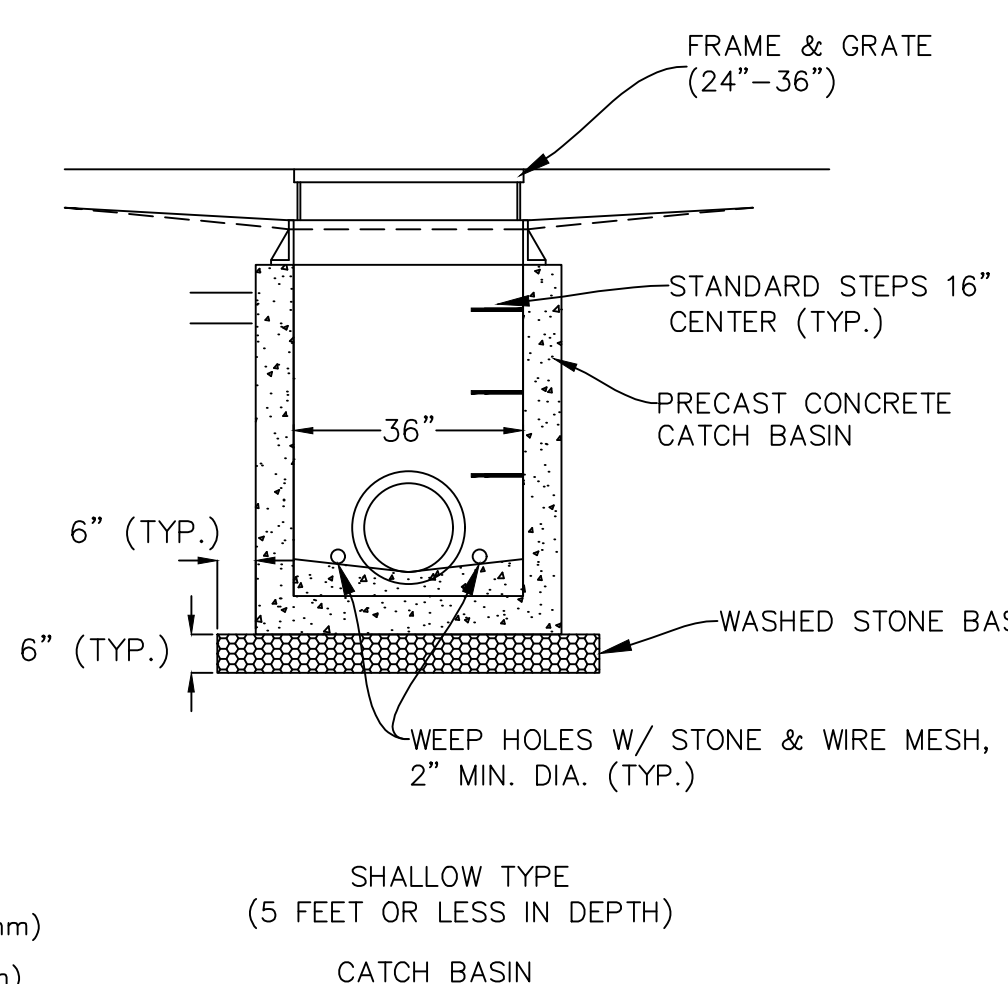
SILT FENCE SIDE VIEW

YARD INLET SCHEDULE				
CATCH BASIN #	RIM ELEV. (FT)	PIPE OUTLET SIZE (IN)	PIPE INV. ELEV. (FT)	SUMP ELEV. (FT)
B	45.00	24 (EX.)	41.93	41.75



FRAME AND GRATE

6 NON-TRAFFIC CATCH BASIN INLET
C16 NO SCALE



SHALLOW TYPE (5 FEET OR LESS IN DEPTH) CATCH BASIN

NOTE:

1. SLAB THICKNESS SHALL BE MIN. 4" IN NON-TRAFFIC AREAS.
2. FRAME, GRATE, & HOOD PER CTDOT STANDARD DRAWINGS.
3. CONCRETE SHALL BE 4000 PSI MIN. FOR ALL PRECAST CONCRETE CATCH BASINS.
4. PRECAST CONCRETE STRUCTURES MAY ONLY BE INSTALLED TO DEPTHS CERTIFIED AS ACCEPTABLE BY THE MANUFACTURER.

NO.	REVISION	DATE

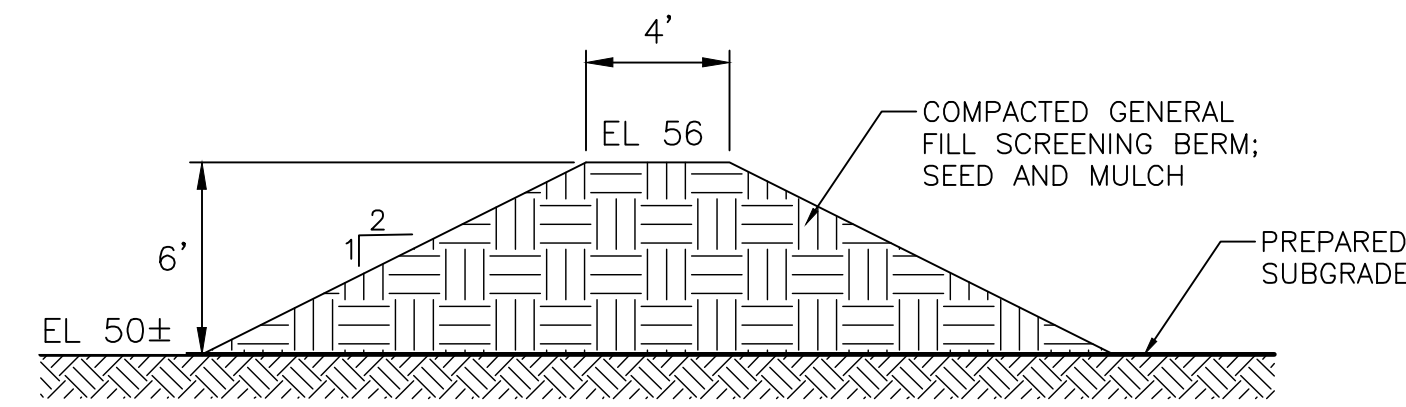
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PROJECT TITLE: **SCRRRA COMPOST FACILITY**
132 ROUTE 12
TOWN OF PRESTON, CONN

CLIENT: **SOUTHEASTERN CONNECTICUT REGIONAL RESOURCE RECOVERY AUTHORITY**
7 HURLBUTT ROAD
GALES FERRY, CONNECTICUT 06335

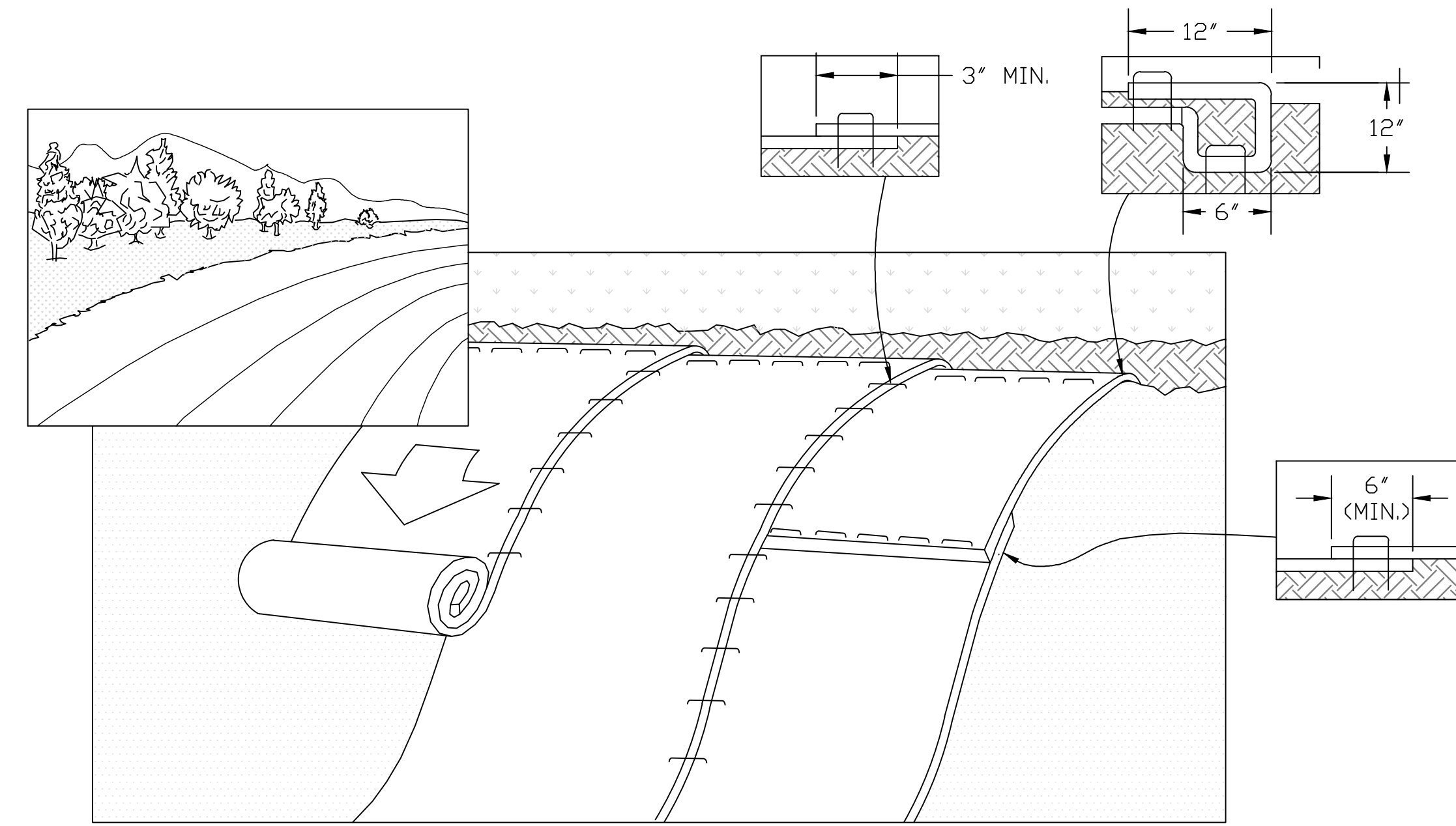
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3
C17 SCREENING BERM DETAIL
NO SCALE



4
C17 EROSION CONTROL MATTING
NO SCALE

GENERAL NOTES:

- TEMPORARY MATTING INSTALLED ON SLOPES SHALL BE NORTH AMERICAN GREEN TYPE DS 75 OR ENGINEER APPROVED EQUIVALENT.
 - IF SEEDING PRIOR TO INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), FOLLOW SEED BED PREPARATION STEPS, AND APPLY APPROVED TYPES AND QUANTITIES OF LIME, FERTILIZER, AND SEED.
 - BEGIN AT THE TOP OF THE SLOPE BY PLACING THE RECP'S 2-3 FEET OVER THE TOP OF THE SLOPE. ANCHOR THE RECP'S IN A 12" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. AFTER STAPLING THE RECP'S IN THE TRENCH, BACKFILL AND COMPACT WITH SOIL. THE RECP'S EXTENDING PAST THE COMPACTED TRENCH SHOULD BE LAPPED ACROSS THE TRENCH AND STAPLED/STAKED TO THE RECP'S EXTENDING DOWNSLOPE. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP'S.
 - ROLL THE RECP'S DOWN OR ALONG THE SLOPE MAINTAINING DIRECT CONTACT BETWEEN THE SOIL AND RECP. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. SECURELY FASTENED THE RECP'S TO SOIL SURFACE BY PLACING STAPLES/STAKES IN A 3 FOOT CENTER-TO-CENTER PATTERN, AS WELL AS IN THE APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH A MINIMUM OF 3" OVERLAP DEPENDING ON RECP'S TYPE. STAPLES/STAKES SHOULD BE PLACED A MAXIMUM OF 5" APART ALONG OVERLAP.
 - CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH A MINIMUM 6" OVERLAP.
 - AT THE TOE OF THE SLOPE, EXTEND THE RECP'S ON THE LEVEL SURFACE SO A MINIMUM OF 4" OF RECP CAN BE TURNED UNDER. STAPLE THE TURNED END AT 12" INTERVALS.
- NOTE: *MINIMUM STAPLE SIZE IS 6" LONG BY 1" WIDE, MINIMUM STAKE LENGTH IS 12". DEPENDING ON SOIL CONDITIONS, LARGER STAKES MAY BE REQUIRED.

NO.	REVISION	DATE

SHEET TITLE
DETAILS & SECTIONS 2

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APP. BY: MJB
C/A. RW. BY: GPM

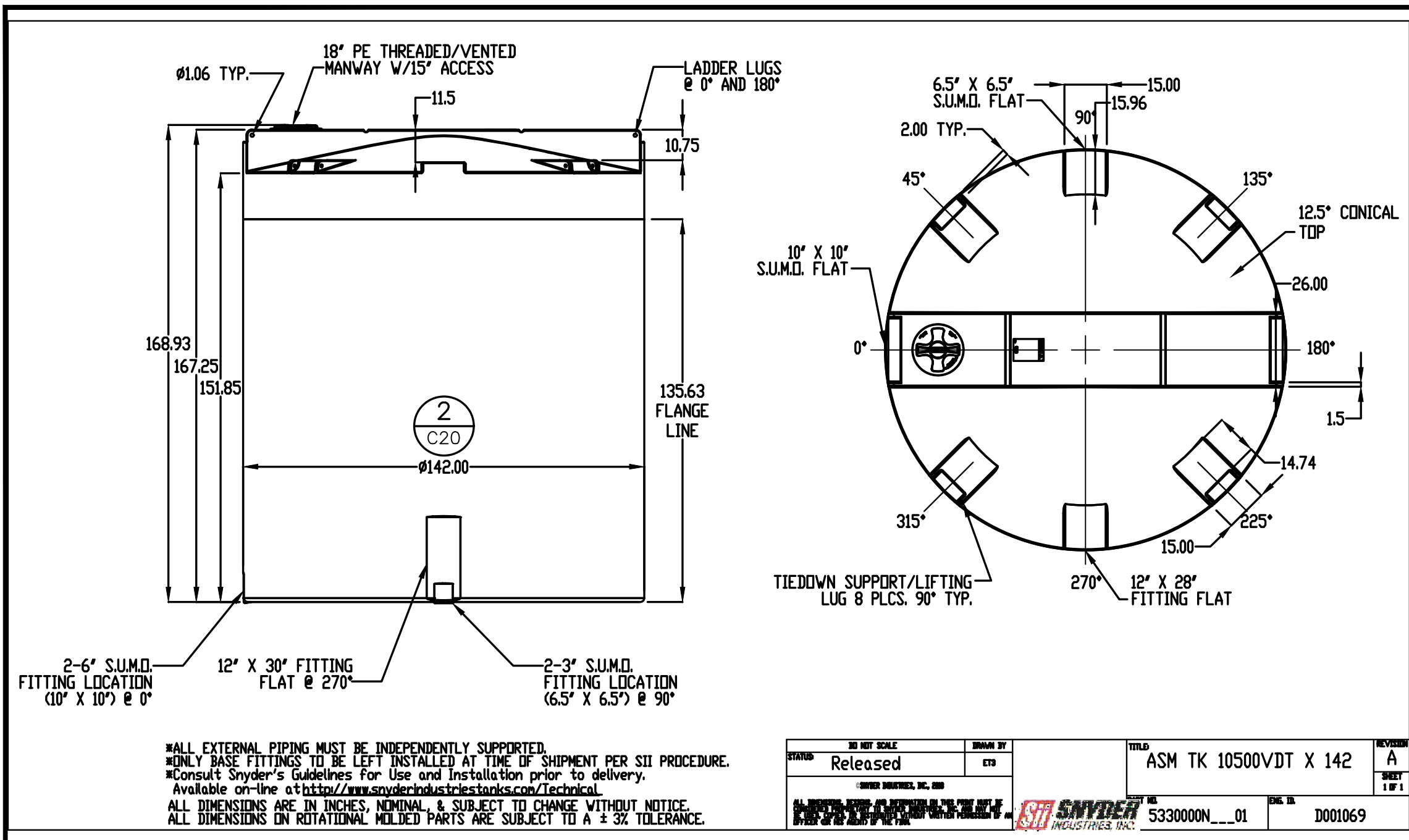
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2/19/26

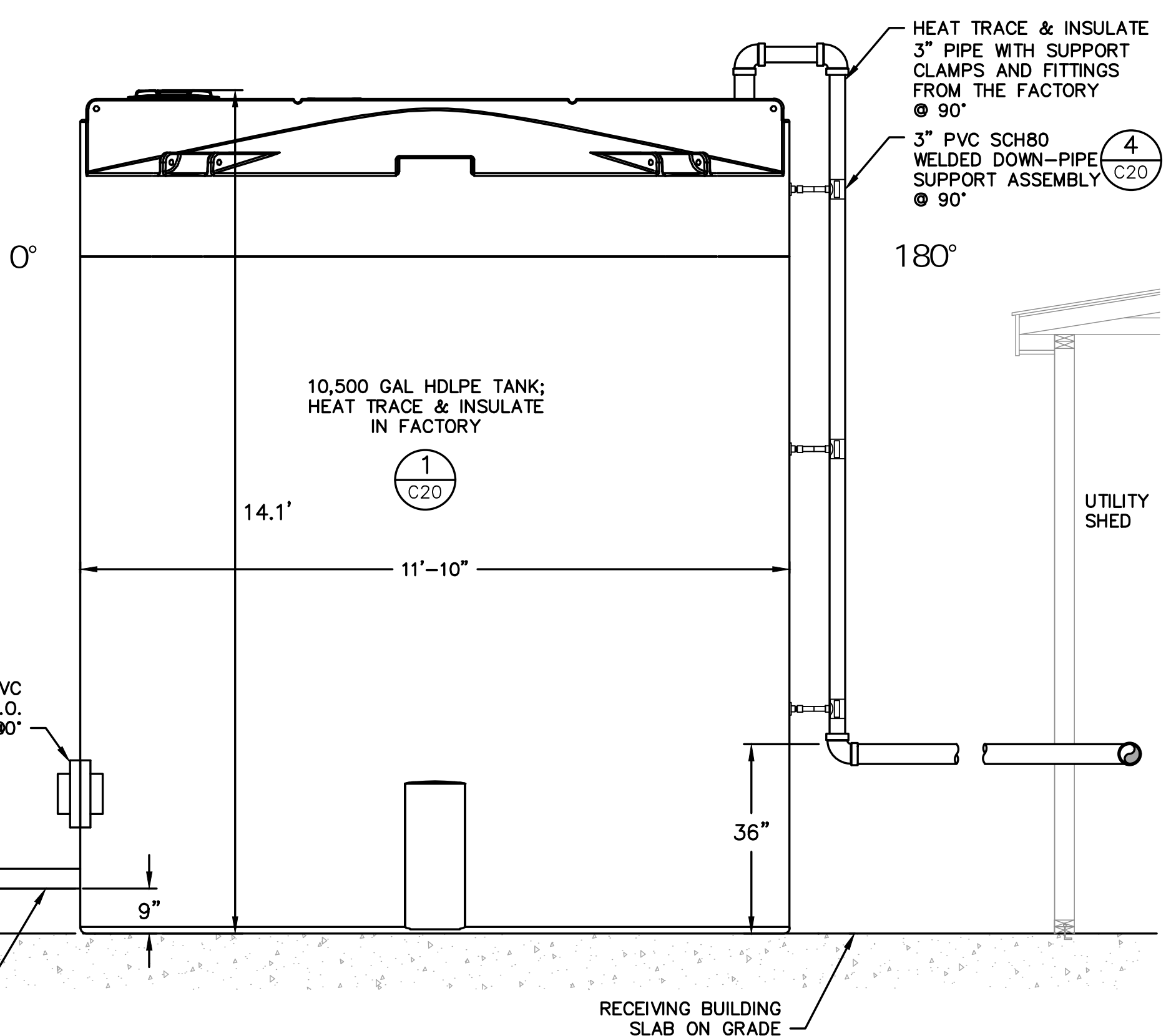
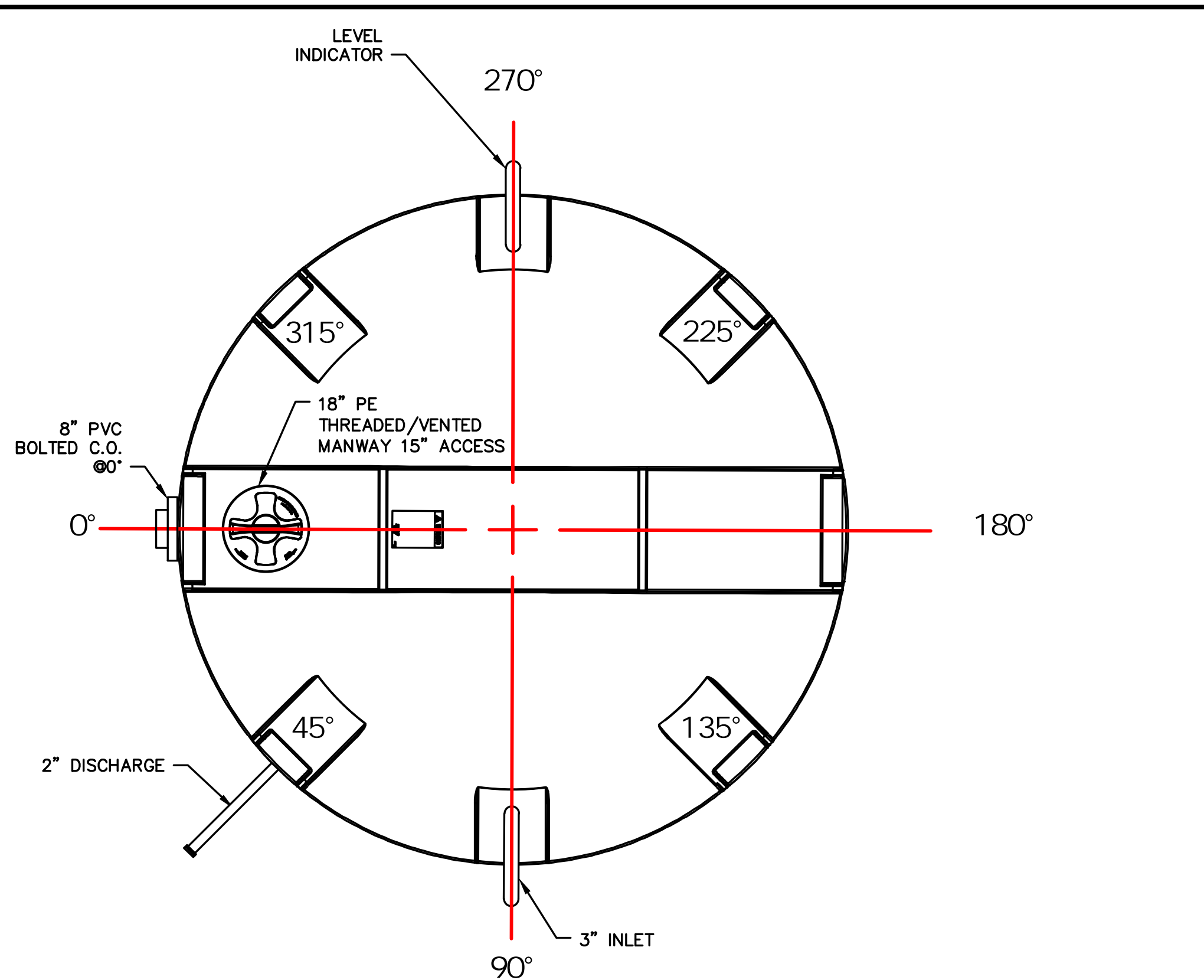
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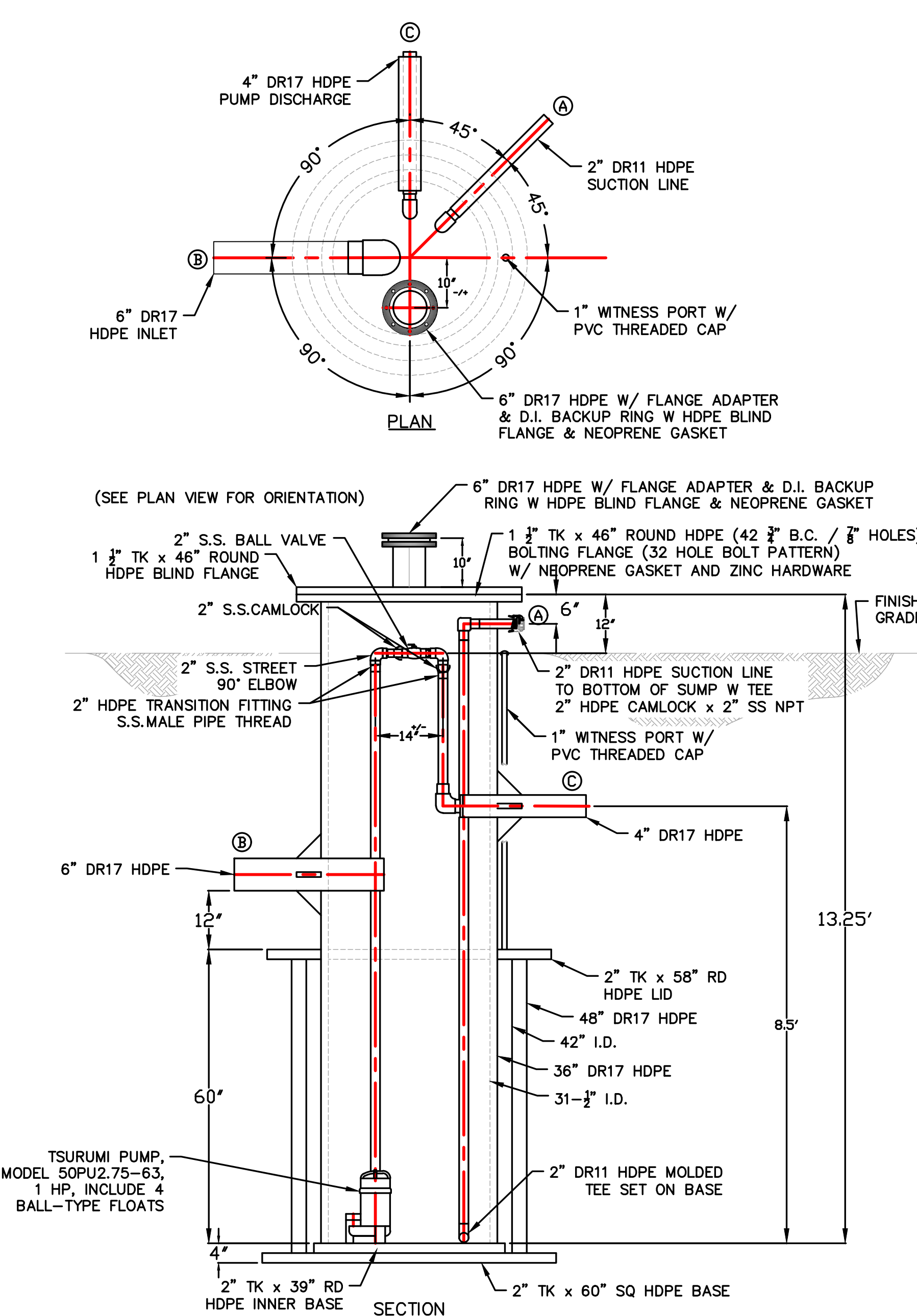
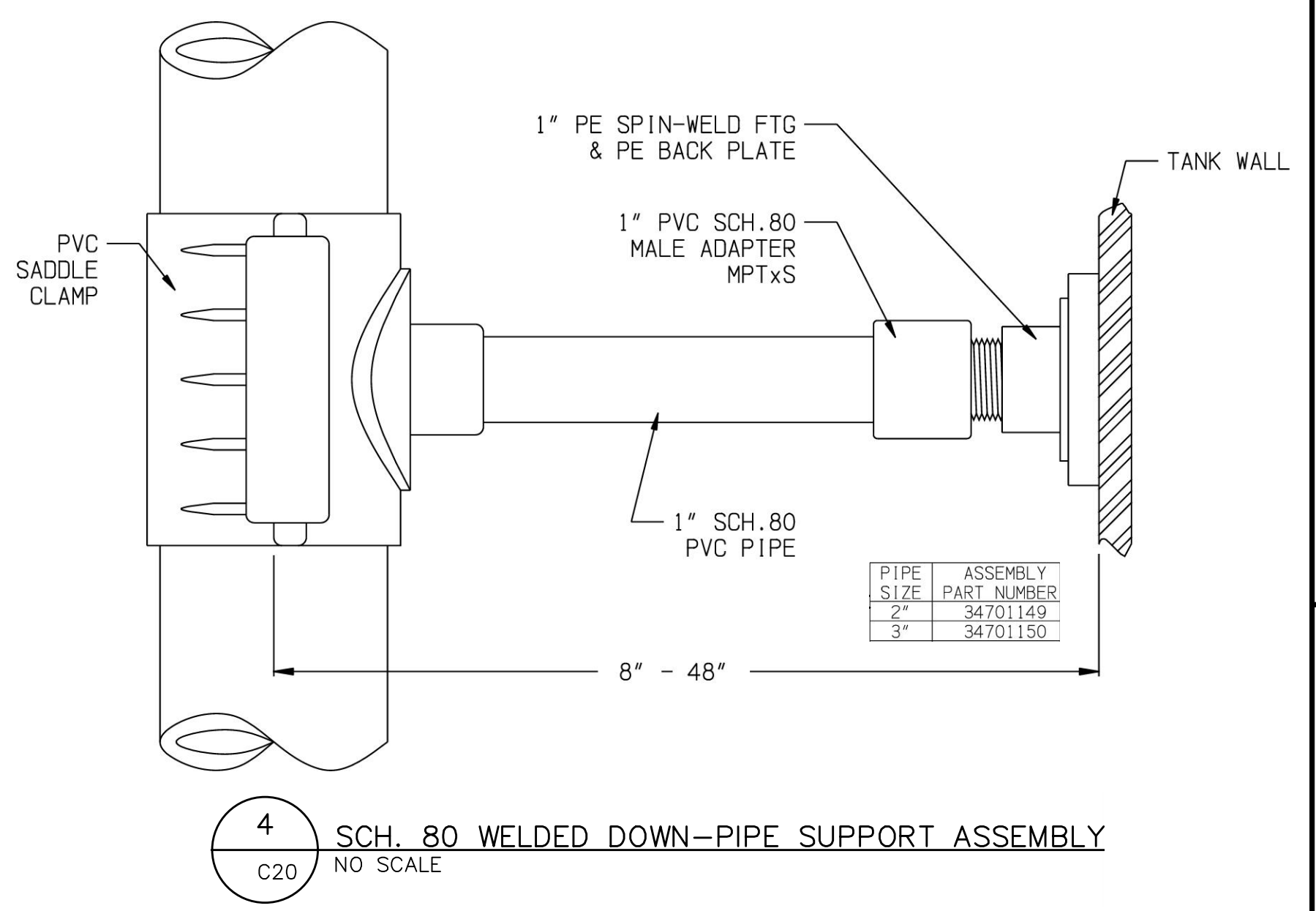
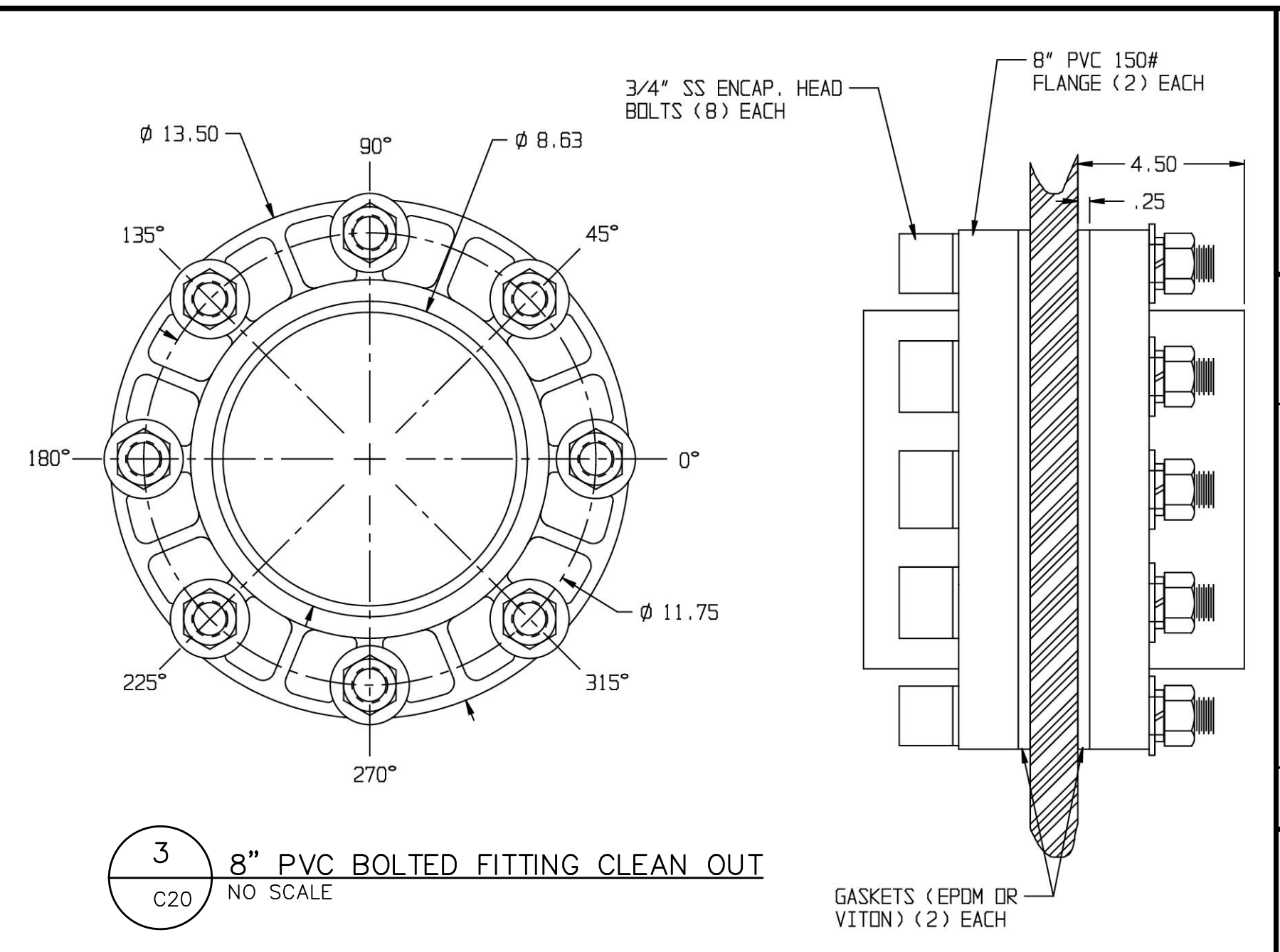
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 C20 NO SCALE



2 PROCESS WATER TANK & PIPING DETAIL
 C20 NO SCALE



5 SUMP PLAN & SECTION
 C20 NO SCALE


NO.	REVISION	DATE

SHEET TITLE: DETAILS & SECTIONS 5
 PROJECT TITLE: SCRRRA COMPOST FACILITY
 132 ROUTE 12
 TOWN OF PRESTON, CONN

CLIENT: SOUTHEASTERN CONNECTICUT REGIONAL RESOURCE RECOVERY AUTHORITY
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 DATE: 2/19/26
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 DRAWING NO.



Appendix C

Supporting Calculations

*Stormwater
Calculation 1
Rational Method Runoff*

Goal

Determine peak rate of runoff and runoff volume using The Rational Method, for use in the design

Background and Diagrams

$Q_p =$ Peak rate of runoff in feet cubed per second $= CiC_aA$

$$C = \sum_1^n C_1 \frac{\text{Area } C_1}{\text{Total Area}} + C_2 \frac{\text{Area } C_2}{\text{Total Area}} + \dots + C_n \frac{\text{Area } C_n}{\text{Total Area}} \quad (\text{Table 1})$$

$C_a =$ Antecedent moisture factor (Table 2)

$A =$ Drainage area in acres

$i =$ Average intensity in inches per hour of rainfall for the time of concentration (Table 3)

$$t_c = t_{c,\text{overland}} + t_{c,\text{shallow conc.}} + t_{c,\text{channel}}$$

$$t_{c,\text{overland}} = \frac{0.007(nL)^{0.8}}{P_2^{0.5} + S^{0.4}} \cdot \frac{60 \text{ min}}{1 \text{ hour}}$$

$P_2 =$ 2 year, 24 hour rainfall depth in inches (Table 4)

$L =$ length of section in feet

$n =$ Manning's roughness coefficient (Table 5)

$S =$ slope in feet per feet

$$t_{c,\text{shallow conc.}} \text{ and } t_{c,\text{channel}} = \frac{L}{V} \cdot \frac{1 \text{ min}}{60 \text{ sec}}$$

$L =$ length of section in feet

$V_{\text{shallow conc.}} =$ average velocity in feet per second $= KS^{0.5}$

$K =$ conversion factor: 16.1345 (unpaved); 20.3284 (paved)

$S =$ slope in feet per feet

$$V_{\text{channel}} = \text{average velocity in feet per second} = \frac{C_m R^{2/3} S^{1/2}}{n}$$

$C_m =$ conversion factor, 1.49 for Imperial Units

$R =$ hydraulic radius in feet $= \frac{A}{P}$

$$\left. \begin{array}{l} A = \text{cross sectional flow area in feet squared} = zy^2 \\ P = \text{wetted perimeter in feet} = 2y\sqrt{1+z^2} \end{array} \right\} R = \frac{zy}{2\sqrt{1+z^2}}$$

$S =$ slope of the grade line in feet per feet

$n =$ Manning's roughness coefficient

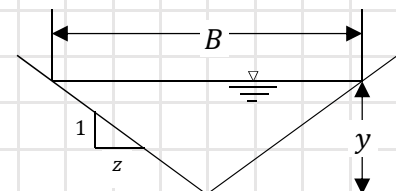
$$Q_v = \text{runoff volume} = \frac{(P - 0.2S)^2}{P + 0.8S}$$

$P =$ rainfall depth in inches (Table 3)

$S =$ potential maximum retention after runoff begins (inches)

$$S = \frac{1000}{CN} - 10$$

$CN =$ Composite Curve Number



Triangular
Channel

Pre-Development

$$t_c = t_{c,overland} + t_{c,shallow conc.} + t_{c,channel}$$

$$t_{c,overland} = \frac{0.007(nL)^{0.8}}{P_2^{0.5}S^{0.4}} \cdot \frac{60 \text{ min}}{1 \text{ hour}} \quad t_{c,shallow conc.} = \frac{L}{V} \cdot \frac{1 \text{ min}}{60 \text{ sec}} \quad t_{c,channel} = \frac{L}{V} \cdot \frac{1 \text{ min}}{60 \text{ sec}}$$

$$n = 0.13$$

$$L = 300 \text{ ft}$$

$$P_2 = 3.46 \text{ in}$$

$$S = 0.02 \text{ ft/ft}$$

$$t_{c,overland} = 20.237 \text{ min}$$

$$L_{unpaved} = 180 \text{ ft}$$

$$L_{paved} = 0 \text{ ft}$$

$$V_{shallow conc.} = KS^{0.5}$$

$$S_{unpaved} = 0.02 \text{ ft/ft}$$

$$S_{paved} = 0.00 \text{ ft/ft}$$

$$V_{shallow conc.} = 2.282 \text{ ft/s}$$

$$t_{c,shallow conc.} = 1.315 \text{ min}$$

$$L_{channel} = 0 \text{ ft}$$

$$V_{channel} = \frac{C_m R^{2/3} S^{1/2}}{n}$$

$$R = \frac{zy}{2\sqrt{1+z^2}}$$

$$z = 3.0 \text{ ft}$$

$$y = 1.5 \text{ ft}$$

$$R = 0.712 \text{ ft}$$

$$S = 0.016 \text{ ft/ft}$$

$$n = 0.015$$

$$V_{channel} = 10.01 \text{ ft/s}$$

$$t_{c,channel} = 0.000 \text{ min}$$

$$t_c = (20.237 \text{ min}) + (1.315 \text{ min}) + (0.000 \text{ min}) = \boxed{21.552 \text{ min}}$$

$$Q_p = CiC_aA$$

Composite Runoff Coefficient (C)

Land Use	Area (ft ²)	Soil Group	Slope	C	C _{composite}
Lawns	426,661.5	B	3.00	0.12	0.12
N/A	N/A	N/A	N/A	N/A	

Peak Runoff (Q_p)

Recurrence Interval (years)	Intensity, i (in/hr)	Composite Runoff Coefficient, C	Area, A (acres)	Antecedent Moisture Factor, C _a	Peak Runoff, Q _p (ft ³ /s)
2	2.37	0.12	9.79	1.00	2.7863
5	2.99			1.00	3.5130
10	3.51			1.00	4.1258
25	4.23			1.10	5.4630
50	4.76			1.20	6.7092
100	5.32			1.25	7.8218

Pre-Development

$$Q_v = \frac{(P - 0.2S)^2}{P + 0.8S}$$

$$S = \frac{1000}{CN} - 10$$

Composite Curve Number

Land Use	Area (ft ²)	Soil Group	CN	Composite CN
Lawns	426,661.5	B	43.00	43.00
N/A	N/A	N/A	N/A	

Runoff Volume (Q_v)

Recurrence Interval (years)	Composite Curve Number, CN	S (inches)	Precipitation, P (inches)	Runoff Volume, Q _v (inches)
2	43.00	13.26	3.46	0.05
5			4.36	0.20
10			5.11	0.38
25			6.14	0.73
50			6.91	1.04
100			7.73	1.41

Post-Construction

$$t_c = t_{c,overland} + t_{c,shallow conc.} + t_{c,channel}$$

$$t_{c,overland} = \frac{0.007(nL)^{0.8}}{P_2^{0.5}S^{0.4}} \cdot \frac{60 \text{ min}}{1 \text{ hour}} \quad t_{c,shallow conc.} = \frac{L}{V} \cdot \frac{1 \text{ min}}{60 \text{ sec}} \quad t_{c,channel} = \frac{L}{V} \cdot \frac{1 \text{ min}}{60 \text{ sec}}$$

$$n = 0.13$$

$$L = 300 \text{ ft}$$

$$P_2 = 3.46 \text{ in}$$

$$S = 0.02 \text{ ft/ft}$$

$$t_{c,overland} = 20.237 \text{ min}$$

$$L_{unpaved} = 0 \text{ ft}$$

$$L_{paved} = 15 \text{ ft}$$

$$V_{shallow conc.} = KS^{0.5}$$

$$S_{unpaved} = 0.02 \text{ ft/ft}$$

$$S_{paved} = 0.02 \text{ ft/ft}$$

$$V_{shallow conc.} = 2.875 \text{ ft/s}$$

$$t_{c,shallow conc.} = 0.087 \text{ min}$$

$$L_{channel} = 115 \text{ ft}$$

$$V_{channel} = \frac{C_m R^{2/3} S^{1/2}}{n}$$

$$R = \frac{2B^2y}{3B^2 + 8y^2}$$

$$z = 3.0 \text{ ft}$$

$$y = 1.5 \text{ ft}$$

$$R = 0.712 \text{ ft}$$

$$S = 0.016 \text{ ft/ft}$$

$$n = 0.015$$

$$V_{channel} = 10.01 \text{ ft/s}$$

$$t_{c,channel} = 0.191 \text{ min}$$

$$t_c = (20.237 \text{ min}) + (0.087 \text{ min}) + (0.191 \text{ min}) = \boxed{20.516 \text{ min}}$$

$$Q_p = CiC_aA$$

Composite Runoff Coefficient (C)

Land Use	Area (ft ²)	Soil Group	Slope	C	C _{composite}
Lawns	52,118.2	B	3.00	0.12	0.65
Paved	190,825.7	B	N/A	0.80	

Peak Runoff (Q_p)

Recurrence Interval (years)	Intensity, i (in/hr)	Composite Runoff Coefficient, C	Area, A (acres)	Antecedent Moisture Factor, C _a	Peak Runoff, Q _p (ft ³ /s)
2	2.43	0.65	5.58	1.00	8.8499
5	3.06			1.00	11.1584
10	3.59			1.00	13.1058
25	4.32			1.10	17.3529
50	4.87			1.20	21.3112
100	5.45			1.25	24.8447

Post-Construction

$$Q_v = \frac{(P - 0.2S)^2}{P + 0.8S}$$

$$S = \frac{1000}{CN} - 10$$

Composite Curve Number

Land Use	Area (ft ²)	Soil Group	CN	Composite CN
Lawns	52,118.2	B	43.00	86.20
Paved	190,825.7	B	98.00	

Runoff Volume (Q_v)

Recurrence Interval (years)	Composite Curve Number, CN	S (inches)	Precipitation, P (inches)	Runoff Volume, Q _v (inches)
2	86.20	1.60	3.46	2.08
5			4.36	2.89
10			5.11	3.59
25			6.14	4.56
50			6.91	5.30
100			7.73	6.09

Attachment: Reference Tables

Table 1 - Recommended Runoff Coefficient

By Selected Hydrologic Soil Groupings And Slope Ranges				
Slope	A	B	C	D
Flat (0-1%)	0.04 - 0.09	0.07 - 0.12	0.11 - 0.16	0.15 - 0.20
Average (2-6%)	0.09 - 0.14	0.12 - 0.17	0.16 - 0.21	0.20 - 0.25
Steep (>6%)	0.13 - 0.18	0.18 - 0.24	0.23 - 0.31	0.28 - 0.38
By Land Use				
Description of Area		Runoff Coefficients		
Business:	Downtown Areas	0.70 - 0.95		
	Neighborhood Areas	0.50 - 0.70		
Residential:	Single-Family Areas	0.30 - 0.50		
	Multi Units, detached	0.40 - 0.60		
	Multi Units, attached	0.60 - 0.75		
	Suburban	0.25 - 0.40		
Residential (1.2 acre lots or more)		0.30 - 0.45		
Apartment Dwelling Areas		0.50 - 0.70		
Industrial:	Light Areas	0.50 - 0.80		
	Heavy Areas	0.60 - 0.90		
Parks, Cemeteries		0.10 - 0.25		
Playgrounds		0.20 - 0.40		
Railroad Yard Areas		0.20 - 0.40		
Unimproved Areas		0.10 - 0.30		
By Impervious Surface Type				
Description of Area		Runoff Coefficients		
Street:	Asphalt	0.70 - 0.95		
	Concrete	0.80 - 0.95		
Drives and Walks		0.75 - 0.85		
Roofs		0.75 - 0.95		

Table 2 - Antecedent Moisture Factors

Recurrence Interval (years)	Antecedent Moisture Factor (C_a)
2 to 10	1.0
25	1.1
50	1.2
100	1.25

Notes:

- (1) Runoff coefficients from Tables 6-3, 6-4, and 6-5 of the Connecticut Department of Transportation Drainage Manual (2000).
- (2) Antecedent Moisture Factors from Table 6-2 of the Connecticut Department of Transportation Drainage Manual (2000).

Table 3 - Precipitation Intensity (in/hr)

Recurrence Interval (years)	Duration (minutes)									
	<i>0-min</i>	<i>10-min</i>	<i>15-min</i>	<i>30-min</i>	<i>60-min</i>	<i>2-hr</i>	<i>3-hr</i>	<i>6-hr</i>	<i>12-hr</i>	<i>24-hr</i>
	0	10	15	30	60	120	180	360	720	1440
1	0.000	2.900	2.280	1.610	1.040	0.681	0.526	0.335	0.206	0.121
2	0.000	3.460	2.720	1.920	1.240	0.811	0.626	0.397	0.244	0.144
5	0.000	4.380	3.430	2.420	1.560	1.020	0.789	0.499	0.306	0.182
10	0.000	5.140	4.030	2.840	1.830	1.200	0.924	0.584	0.357	0.213
25	0.000	6.180	4.850	3.420	2.210	1.440	1.110	0.701	0.428	0.256
50	0.000	6.970	5.460	3.850	2.490	1.620	1.250	0.788	0.481	0.288
100	0.000	7.790	6.110	4.310	2.780	1.820	1.400	0.880	0.537	0.322

Table 4 - Precipitation Depth (inches)

Recurrence Interval (years)	Duration (minutes)									
	<i>0-min</i>	<i>10-min</i>	<i>15-min</i>	<i>30-min</i>	<i>60-min</i>	<i>2-hr</i>	<i>3-hr</i>	<i>6-hr</i>	<i>12-hr</i>	<i>24-hr</i>
	0	10	15	30	60	120	180	360	720	1440
1	0.000	0.483	0.569	0.804	1.040	1.360	1.580	2.000	2.480	2.910
2	0.000	0.577	0.679	0.958	1.240	1.620	1.880	2.380	2.940	3.460
5	0.000	0.730	0.858	1.210	1.560	2.050	2.370	2.990	3.680	4.360
10	0.000	0.856	1.010	1.420	1.830	2.400	2.780	3.500	4.300	5.110
25	0.000	1.030	1.210	1.710	2.210	2.880	3.340	4.200	5.150	6.140
50	0.000	1.160	1.370	1.930	2.490	3.250	3.760	4.720	5.790	6.910
100	0.000	1.300	1.530	2.150	2.780	3.630	4.200	5.270	6.470	7.730

Notes:

- (1) Precipitation frequency estimates from NOAA Precipitation Frequency Data Server.

Table 5 - Manning's Roughness Coefficient for Overland Sheet Flow

n	Surface Description
0.011	Smooth asphalt
0.012	Smooth concrete
0.05	Fallow (no residue)
Cultivated Soils	
0.06	Residue Cover = 20%
0.17	Residue Cover >20%
0.13	Range (natural)
Grass	
0.15	Short grass prairie
0.24	Dense grasses
0.41	Bermuda grass
Woods	
0.4	Light underbrush
0.8	Dense underbrush

Notes:

- (1) Roughness coefficients from Table 3-1 of the TR-55 Manual (Second Ed., June 1986).

*Stormwater
Calculation 2
Temporary Sediment Basin*

Goal

Determine the minimum detention storage volume required below the crest of a Temporary Sediment Basin, using guidance from the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control.

Background and Diagrams

$$V_T = \text{required sediment basin volume in acre-feet} = V + V_W + V_S$$

$$V = \text{sediment storage volume in acre-feet} = \frac{(DA)(A)(DR)(TE)(2,000 \text{ lb/ton})}{(\gamma)(43,560 \text{ ft}^2/\text{acre})}$$

DA = total drainage area in acres

A = average annual erosion in tons per acre from Figure SB-1

DR = delivery ratio from Figure SB-12

TE = trap efficiency, 0.8

γ = sediment density in pounds per cubic foot from Figure SB-2

$$V_W = \text{wet storage volume in acre-feet} = 2 \times V$$

V_S = detention storage volume from Figures SB-13 and DB-6

Determine $\frac{Q_o}{Q_i}$ from Figure SB-13, where:

Q_o = peak outflow from a 10-year, 24-hour storm in cubic feet per second

Q_i = peak inflow from a 10-year, 24-hour storm in cubic feet per second

by using $\frac{Q_i}{DA}$ and V_r , where:

V_r = runoff volume from a 10-year, 24-hour storm in inches

Using the $\frac{Q_o}{Q_i}$ value from Figure SB-13, calculate Q_o in cubic feet per second per square mile

V_S can then be determined using Figure DB-6 with the calculated Q_o (cms) and V_r values.

$$W = \text{minimum width in feet of a sediment basin} = 10\sqrt{Q_5}$$

Q_5 = peak discharge from a 25-year frequency storm in cfs

D = average depth in feet of a sediment basin ≥ 4 feet

Composite Curve Number

$$V_T = V + V_W + V_S$$

$$V = \text{sediment storage volume in acre-feet} = \frac{(DA)(A)(DR)(TE)(2,000 \text{ lb/ton})}{(\gamma)(43,560 \text{ ft}^2/\text{acre})}$$

Weighted Erosion Rate (A)

Land Use	Area			Erosion Rate
	(ft ²)	(mi ²)	(acres)	(ton/ac/yr)
Grassy Areas	52,118.2	0.0019	1.20	1
Construction Areas	190,825.7	0.0068	4.38	50

$\Sigma = 242,943.9$ $\Sigma = 0.0087$ $DA = 5.58$ $A = 39.49$

$DR = 37.0\%$

$TE = 0.80$

$\gamma = 90.0 \text{ lbs/ft}^3$

$V = 0.033 \text{ acre-ft}$

$V_W = 2 \times V = 0.067 \text{ acre-ft}$

Release Rate (Q_o)

Recurrence Interval (years)	Peak Runoff, Q _i (ft ³ /s)	Q _i /A	Runoff Volume, V _r (inches)	Q _o /Q _i	Release Rate, Q _o	
					(ft ³ /s)	(csm)
10	13.1058	2.350	3.5900	0.0860	1.127	129.338

$V_S = 1.44 \text{ inches} = 0.669 \text{ acre-ft}$

$V_T = 0.033 \text{ ac-ft} + 0.067 \text{ ac-ft} + 0.669 \text{ ac-ft} = 0.769 \text{ acre-ft} = \boxed{33,499 \text{ ft}^3, \text{ min.}}$

Design Basin Dimension

$W = 10\sqrt{Q_5}$

$Q_5 = 11.16 \text{ ft}^3/\text{s}$

$\text{Min. } W = 33.4 \text{ ft, min.}, \quad \text{Design } W = 65 \text{ ft, avg.}$

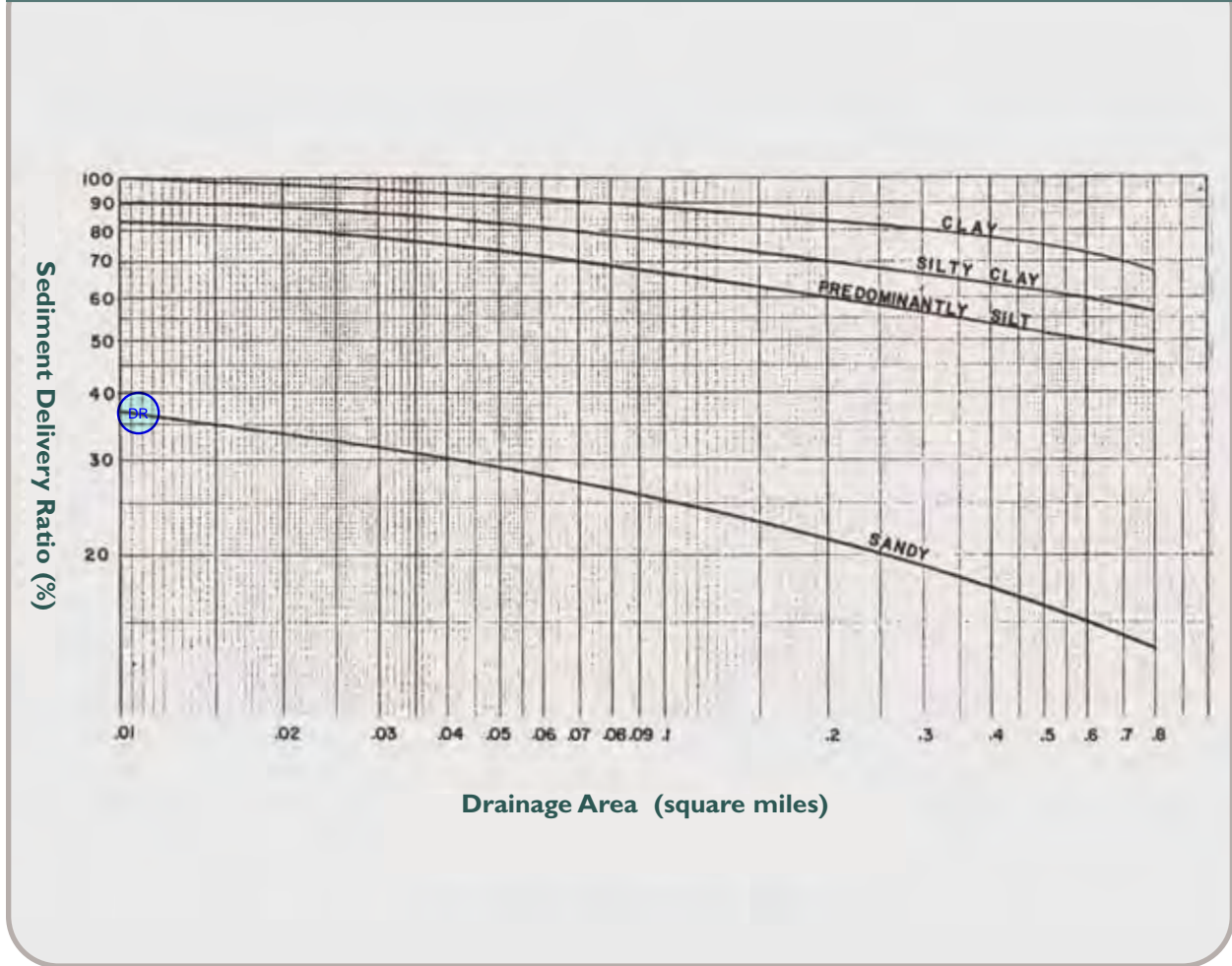
$D = 4.00 \text{ ft}$

$L = 257.7 \text{ ft}$

Design Vol. = 36,700 ft³ ✓

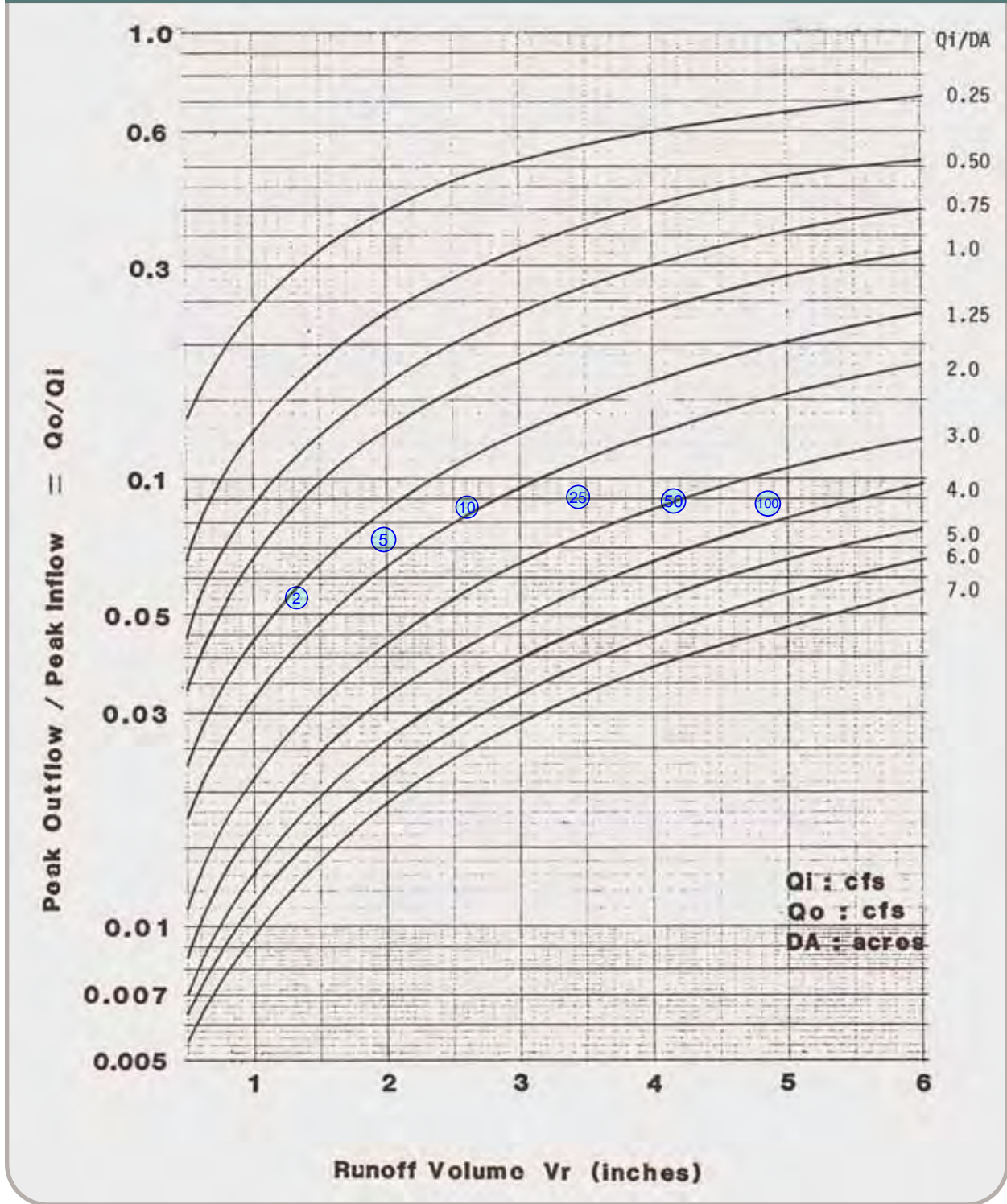
Attachment: E&SC Guideline Figures

Figure SB-12 Sediment Delivery Ratio Vs. Drainage Area Graph



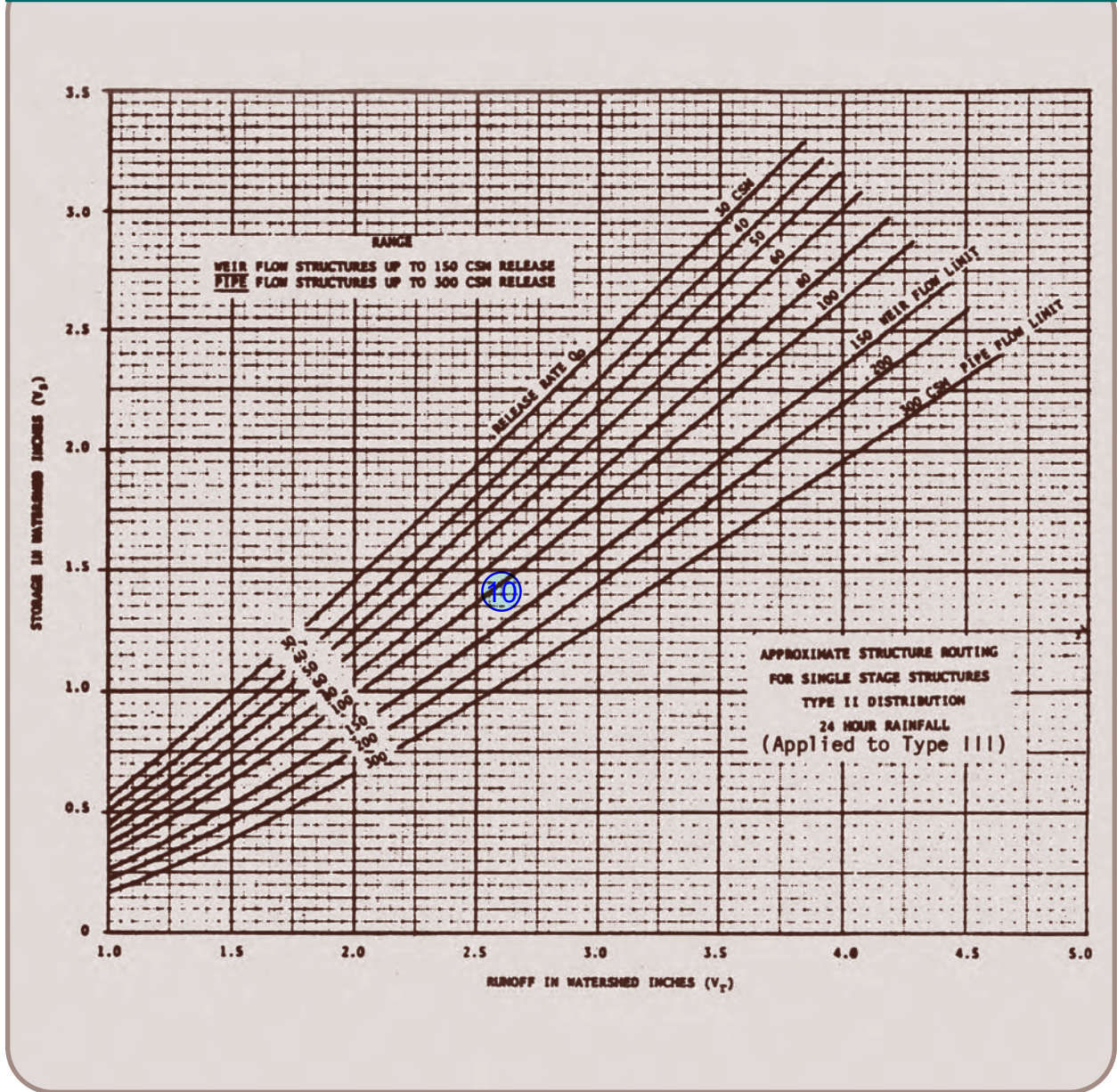
Source: USDA-NRCS

Figure SB-13 Maximum Peak Outflow for Detention Time Graph



Source: USDA-NRCS

Figure DB-6 Structure Routing Graph



Source: USDA-NRCS

*Stormwater
Calculation 3
Detention Pond*

Goal

Design a permanent detention pond to account for the minimum water quality volume as well as the peak runoff values given by the runoff calculations, using guidance from 2004 Connecticut Stormwater Quality Manual.

Background and Diagrams

$$WQV = \text{water quality volume in acre-feet} = \frac{(1 \text{ inch})(R)(A)}{(12 \text{ inches/ft})}$$

$$R = \text{volumetric runoff coefficient} = 0.05 + 0.009(I)$$

I = percent impervious cover

A = site area in acres

$$GRV = \text{groundwater recharge volume in acre-feet} = \frac{(D)(A)(I)}{(12 \text{ inches/ft})}$$

D = depth of runoff to be recharged in inches from Table 7-4

A = site area in acres

I = change in site imperviousness from pre-development to post-construction in decimal form

$$RCV = \text{runoff capture volume in acre-feet} = WQV$$

Conveyance Protection = 10-year, 24-hour post-development peak flow = Q_{10}

Peak Runoff Attenuation = 25-year, 24-hour and 100-year, 24-hour post-development peak flow

Detention Pond Sizing

$$WQV = \frac{(1 \text{ inch})(R)(A)}{(12 \text{ inches/ft})}$$

$$R = 0.05 + 0.009(I)$$

Impervious Area (I)

Land Use	Area			Ratio of Area (I)	
	(ft ²)	(mi ²)	(acres)	(%)	(decimal)
Pervious Areas	52,118.2	0.0019	1.20	21.45	0.21
Impervious Areas	190,825.7	0.0068	4.38	78.55	0.79

$\Sigma = 242,943.9$ $\Sigma = 0.0087$ $A = 5.58$

$$R = 0.76$$

$$WQV = 0.352 \text{ acre-ft}$$

$$GRV = \frac{(D)(A)(I)}{(12 \text{ inches/ft})}$$

$$D = 0.25 \text{ inches (Soil Group B)}$$

$$GRV = 0.091 \text{ acre-ft}$$

$$RCV = WQV = 0.352 \text{ acre-ft}$$

Detention Pond Sizing Requirements

Criterion	Requirement
Water Quality Volume	0.352 ac-ft
Groundwater Recharge Volume	0.091 ac-ft
Runoff Capture Volume	0.352 ac-ft
Conveyance Protection (10-year)	13.11 ft ³ /s
Peak Runoff Attenuation (25-year)	17.35 ft ³ /s
Peak Runoff (100-year)	21.31 ft ³ /s

$$V_T = 0.352 \text{ ac-ft} + 0.091 \text{ ac-ft} + 0.352 \text{ ac-ft} = 0.795 \text{ acre-ft} = \boxed{34,624 \text{ ft}^3, \text{ min.}}$$

Design Vol. = 36,700 ft³ ✓

*Stormwater
Calculation 4
Hydraflow Express Models*

Culvert Report

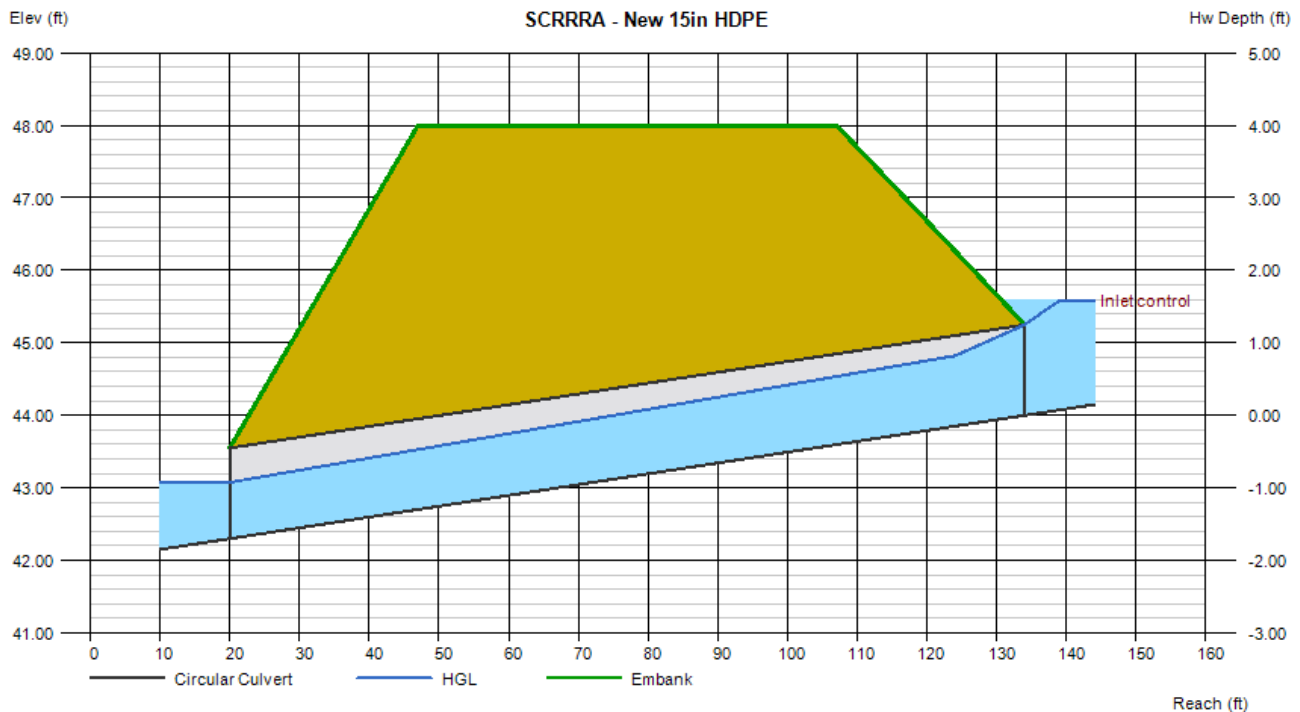
SCRRA - New 15in HDPE

Invert Elev Dn (ft)	=	42.30
Pipe Length (ft)	=	114.00
Slope (%)	=	1.49
Invert Elev Up (ft)	=	44.00
Rise (in)	=	15.0
Shape	=	Circular
Span (in)	=	15.0
No. Barrels	=	1
n-Value	=	0.012
Culvert Type	=	Circular Culvert
Culvert Entrance	=	Smooth tapered inlet throat
Coeff. K,M,c,Y,k	=	0.534, 0.555, 0.0196, 0.9, 0.2

Embankment	
Top Elevation (ft)	= 48.00
Top Width (ft)	= 60.00
Crest Width (ft)	= 100.00

Calculations	
Qmin (cfs)	= 2.00
Qmax (cfs)	= 6.00
Tailwater Elev (ft)	= 0.00

Highlighted	
Qtotal (cfs)	= 6.00
Qpipe (cfs)	= 6.00
Qovertop (cfs)	= 0.00
Veloc Dn (ft/s)	= 7.49
Veloc Up (ft/s)	= 5.76
HGL Dn (ft)	= 43.08
HGL Up (ft)	= 44.99
Hw Elev (ft)	= 45.58
Hw/D (ft)	= 1.27
Flow Regime	= Inlet Control



Culvert Report

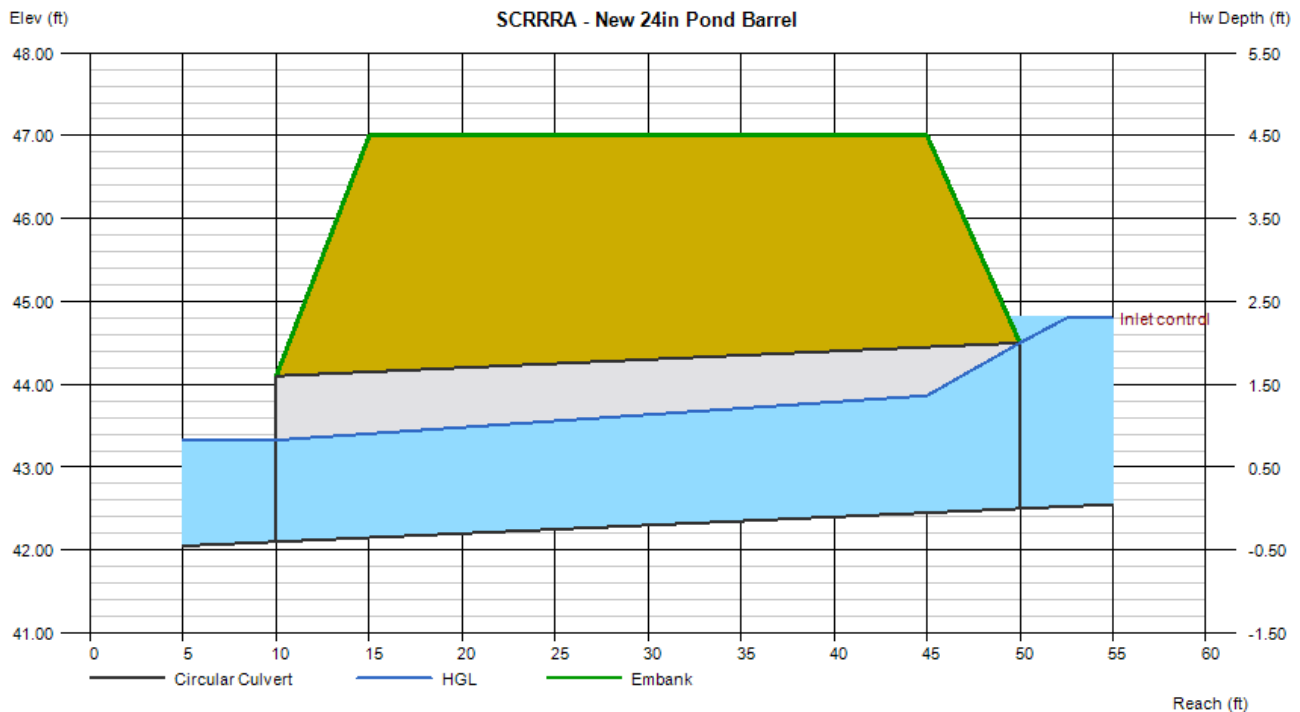
SCRRA - New 24in Pond Barrel

Invert Elev Dn (ft)	=	42.10
Pipe Length (ft)	=	40.00
Slope (%)	=	1.00
Invert Elev Up (ft)	=	42.50
Rise (in)	=	24.0
Shape	=	Circular
Span (in)	=	24.0
No. Barrels	=	1
n-Value	=	0.012
Culvert Type	=	Circular Culvert
Culvert Entrance	=	Smooth tapered inlet throat
Coeff. K,M,c,Y,k	=	0.534, 0.555, 0.0196, 0.9, 0.2

Embankment	
Top Elevation (ft)	= 47.00
Top Width (ft)	= 30.00
Crest Width (ft)	= 100.00

Calculations	
Qmin (cfs)	= 8.00
Qmax (cfs)	= 16.00
Tailwater Elev (ft)	= 0.00

Highlighted	
Qtotal (cfs)	= 16.00
Qpipe (cfs)	= 16.00
Qovertop (cfs)	= 0.00
Veloc Dn (ft/s)	= 7.92
Veloc Up (ft/s)	= 6.60
HGL Dn (ft)	= 43.33
HGL Up (ft)	= 43.94
Hw Elev (ft)	= 44.80
Hw/D (ft)	= 1.15
Flow Regime	= Inlet Control



Culvert Report

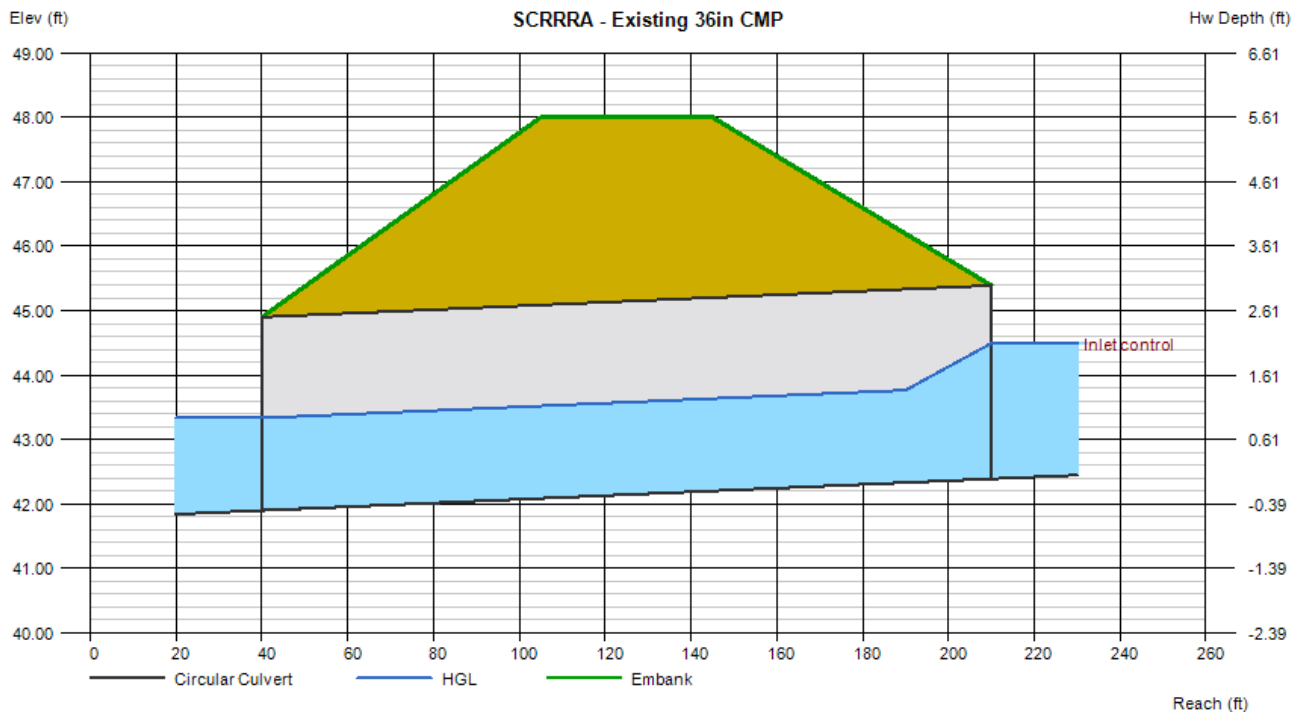
SCRRRA - Existing 36in CMP

Invert Elev Dn (ft)	= 41.90
Pipe Length (ft)	= 170.00
Slope (%)	= 0.29
Invert Elev Up (ft)	= 42.39
Rise (in)	= 36.0
Shape	= Circular
Span (in)	= 36.0
No. Barrels	= 1
n-Value	= 0.020
Culvert Type	= Circular Culvert
Culvert Entrance	= Smooth tapered inlet throat
Coeff. K,M,c,Y,k	= 0.534, 0.555, 0.0196, 0.9, 0.2

Embankment	
Top Elevation (ft)	= 48.00
Top Width (ft)	= 40.00
Crest Width (ft)	= 100.00

Calculations	
Qmin (cfs)	= 16.00
Qmax (cfs)	= 22.00
Tailwater Elev (ft)	= 0.00

Highlighted	
Qtotal (cfs)	= 20.00
Qpipe (cfs)	= 20.00
Qovertop (cfs)	= 0.00
Veloc Dn (ft/s)	= 6.00
Veloc Up (ft/s)	= 6.00
HGL Dn (ft)	= 43.33
HGL Up (ft)	= 43.82
Hw Elev (ft)	= 44.49
Hw/D (ft)	= 0.70
Flow Regime	= Inlet Control



Culvert Report

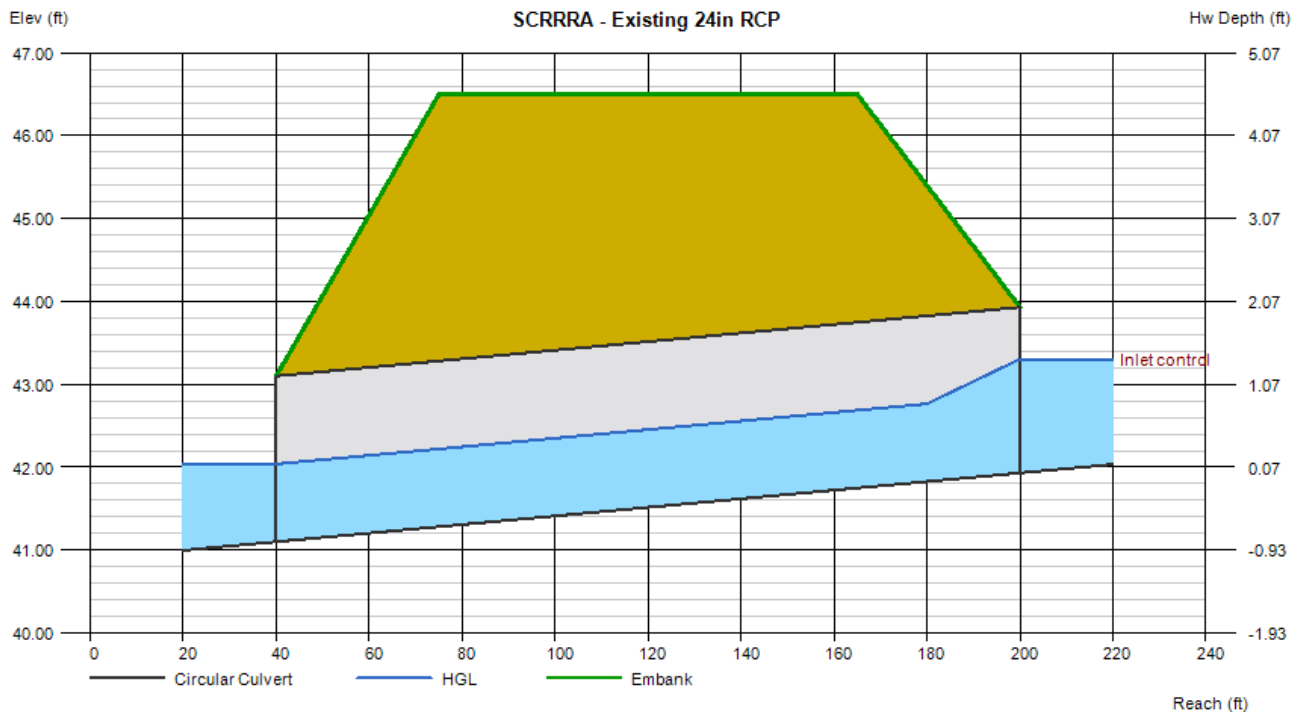
SCRRRA - Existing 24in RCP

Invert Elev Dn (ft)	=	41.10
Pipe Length (ft)	=	160.00
Slope (%)	=	0.52
Invert Elev Up (ft)	=	41.93
Rise (in)	=	24.0
Shape	=	Circular
Span (in)	=	24.0
No. Barrels	=	1
n-Value	=	0.013
Culvert Type	=	Circular Culvert
Culvert Entrance	=	Smooth tapered inlet throat
Coeff. K,M,c,Y,k	=	0.534, 0.555, 0.0196, 0.9, 0.2

Embankment	
Top Elevation (ft)	= 46.50
Top Width (ft)	= 90.00
Crest Width (ft)	= 100.00

Calculations	
Qmin (cfs)	= 3.00
Qmax (cfs)	= 7.00
Tailwater Elev (ft)	= 0.00

Highlighted	
Qtotal (cfs)	= 7.00
Qpipe (cfs)	= 7.00
Qovertop (cfs)	= 0.00
Veloc Dn (ft/s)	= 4.84
Veloc Up (ft/s)	= 4.84
HGL Dn (ft)	= 42.04
HGL Up (ft)	= 42.87
Hw Elev (ft)	= 43.30
Hw/D (ft)	= 0.69
Flow Regime	= Inlet Control



Channel Report

SCRRRA - Diversion Channel

Triangular

Side Slopes (z:1) = 3.00, 3.00

Total Depth (ft) = 2.00

Invert Elev (ft) = 48.00

Slope (%) = 1.60

N-Value = 0.200

Calculations

Compute by: Known Depth

Known Depth (ft) = 1.50

Highlighted

Depth (ft) = 1.50

Q (cfs) = 5.055

Area (sqft) = 6.75

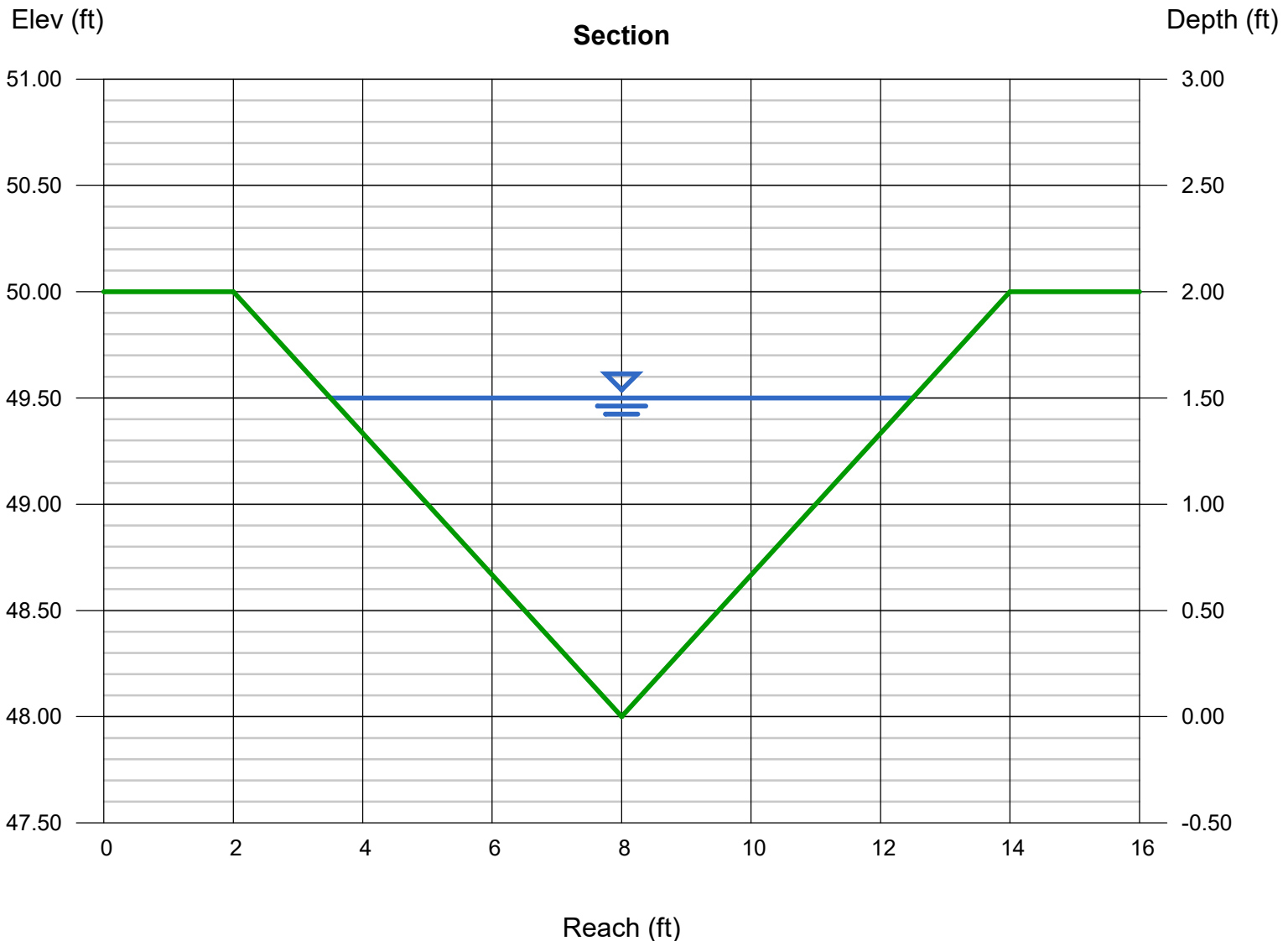
Velocity (ft/s) = 0.75

Wetted Perim (ft) = 9.49

Crit Depth, Yc (ft) = 0.71

Top Width (ft) = 9.00

EGL (ft) = 1.51



Appendix D

ASP Compost Facility Supporting Figures



Site Plan Application SCRRRA Compost Facility Supporting Figures & Calculations

Prepared For:
Southeastern Connecticut Regional Resources Recovery Authority
7 Hurlbutt Road
Gales Ferry, Connecticut 06335

Prepared By:

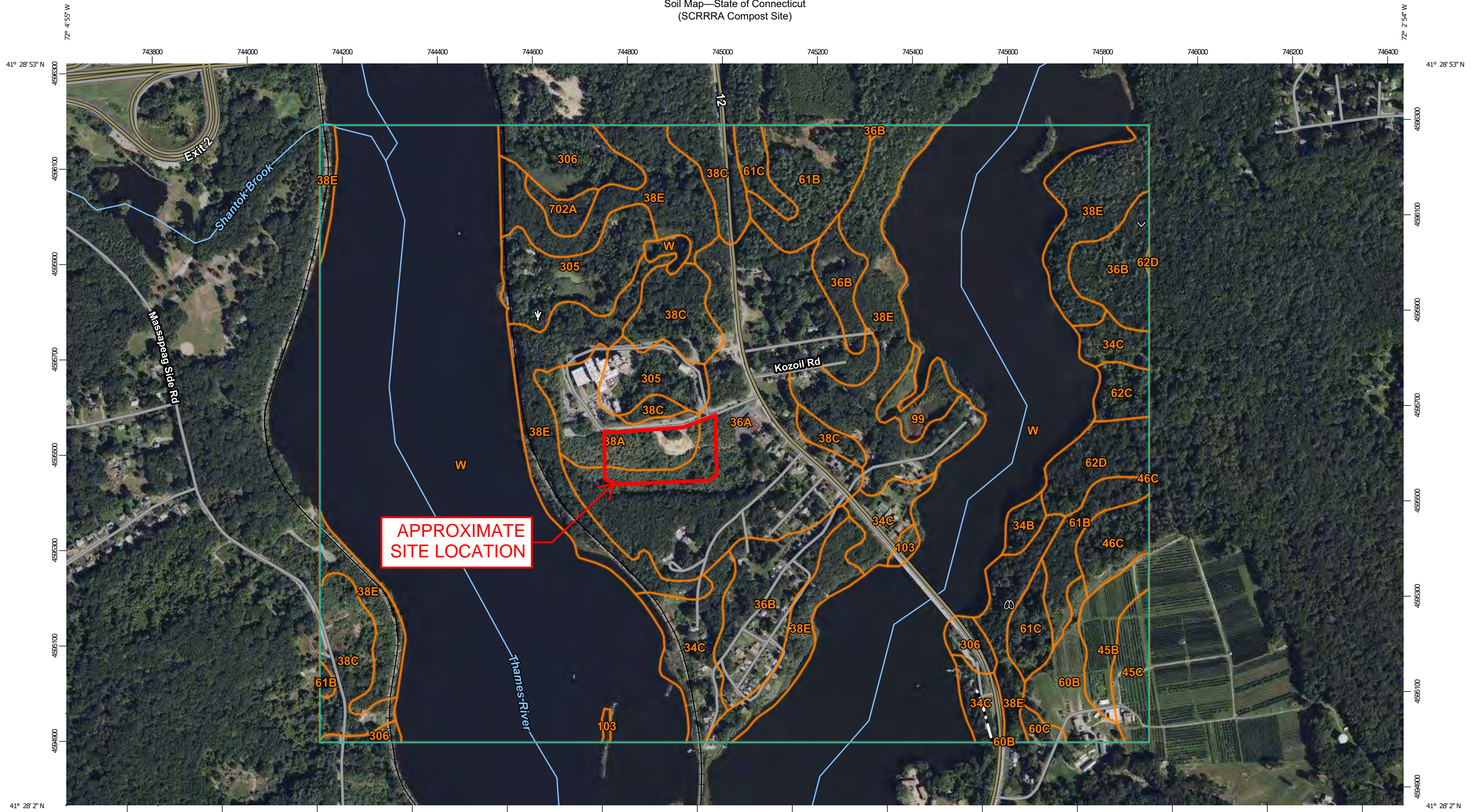
SCS ENGINEERS

4 Executive Boulevard, Ste. 303
Suffern, NY 10901
(845) 357-1510

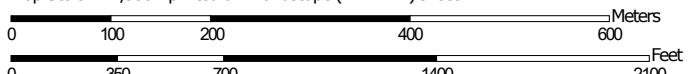
02220718.02 | October 23, 2023

Figure 1

Soil Map—State of Connecticut
(SCRRA Compost Site)



Map Scale: 1:7,580 if printed on B landscape (17" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84




MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut

Survey Area Data: Version 22, Sep 12, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 14, 2022—Oct 6, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
34B	Merrimac fine sandy loam, 3 to 8 percent slopes	1.8	0.3%
34C	Merrimac fine sandy loam, 8 to 15 percent slopes	20.0	3.6%
36A	Windsor loamy sand, 0 to 3 percent slopes	53.1	9.5%
36B	Windsor loamy sand, 3 to 8 percent slopes	24.7	4.4%
38A	Hinckley loamy sand, 0 to 3 percent slopes	11.2	2.0%
38C	Hinckley loamy sand, 3 to 15 percent slopes	23.9	4.3%
38E	Hinckley loamy sand, 15 to 45 percent slopes	88.1	15.7%
45B	Woodbridge fine sandy loam, 3 to 8 percent slopes	5.7	1.0%
45C	Woodbridge fine sandy loam, 8 to 15 percent slopes	5.1	0.9%
46C	Woodbridge fine sandy loam, 8 to 15 percent slopes, very stony	5.0	0.9%
60B	Canton and Charlton fine sandy loams, 3 to 8 percent slopes	7.0	1.3%
60C	Canton and Charlton fine sandy loams, 8 to 15 percent slopes	1.0	0.2%
61B	Canton and Charlton fine sandy loams, 0 to 8 percent slopes, very stony	17.1	3.1%
61C	Canton and Charlton fine sandy loams, 8 to 15 percent slopes, very stony	6.5	1.2%
62C	Canton and Charlton fine sandy loams, 3 to 15 percent slopes, extremely stony	3.1	0.6%
62D	Canton and Charlton fine sandy loams, 15 to 35 percent slopes, extremely stony	7.1	1.3%
99	Westbrook mucky peat, low salt	3.9	0.7%
103	Rippowam fine sandy loam	1.1	0.2%
305	Udorthents-Pits complex, gravelly	18.1	3.2%

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
306	Udorthents-Urban land complex	11.0	2.0%
702A	Tisbury silt loam, 0 to 3 percent slopes	2.2	0.4%
W	Water	243.4	43.5%
Totals for Area of Interest		559.9	100.0%

Figure 2

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations (BFEs)** and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only to landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Connecticut State Plane Zone FIPS zone 0600. The horizontal datum was NAD 83, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, NNGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM was derived from digital orthophotography provided by the Connecticut Department of Environmental Planning. This information was created from photography dated 2000, 2004 and 2005.

The **profile baselines** depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the profile baseline, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

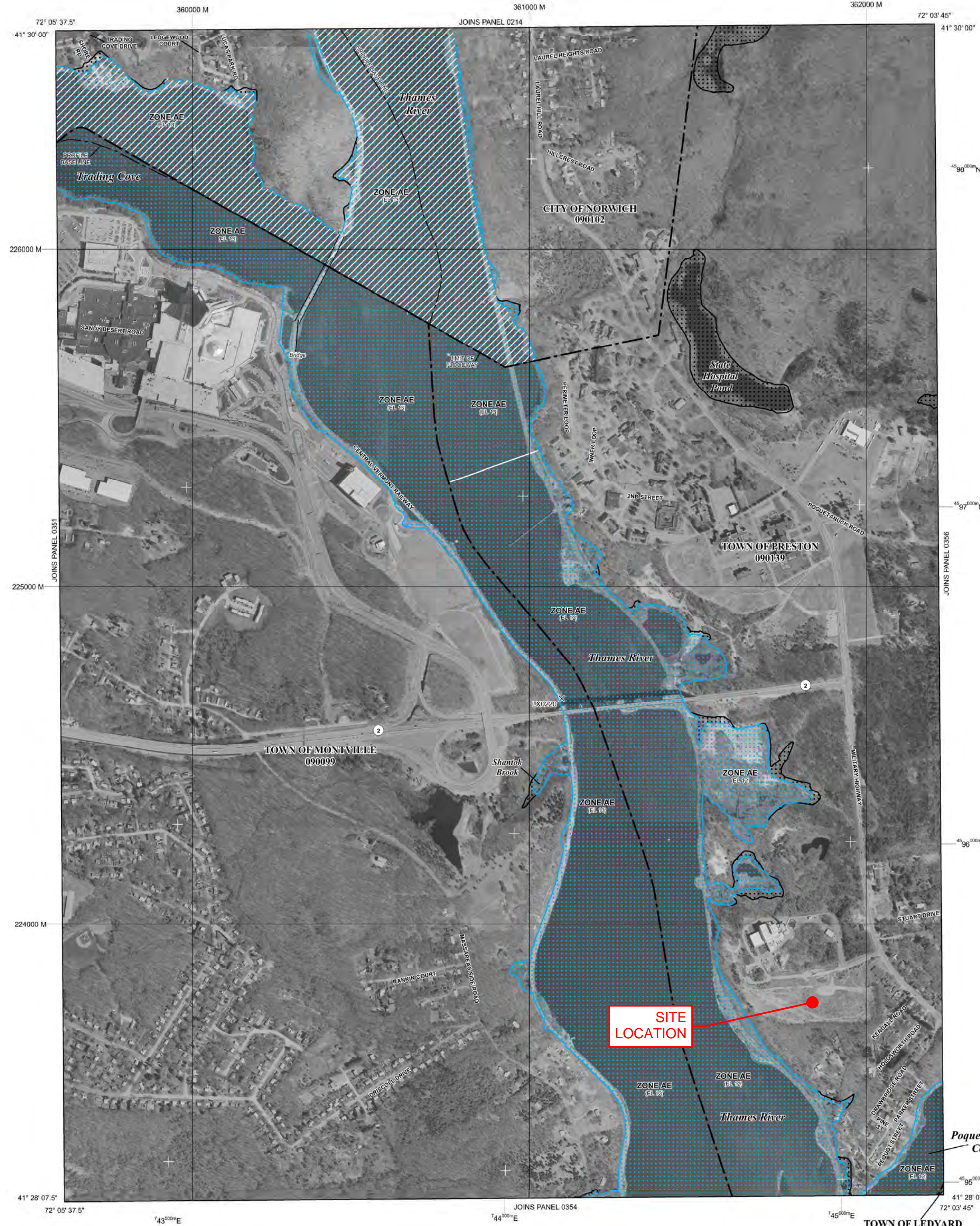
Based on updated topographic information, this map reflects more detailed and up-to-date **stream channel configurations** and **floodplain delineations** than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables for multiple streams in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on the map. Also, the road to floodplain relationships for unvisited streams may differ from what is shown on previous maps.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information on available products associated with this FIRM visit the **Map Service Center (MSC)** website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have **questions about this map**, how to order products, or the National Flood Insurance Program in general, please call the **FEMA Map Information eXchange (FMIX)** at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/mifp>.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, AV, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevations determined.
ZONE AE Base Flood Elevations determined.
ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE AV Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE VE Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE
The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS
ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
OTHER AREAS
ZONE X Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
OTHERWISE PROTECTED AREAS (OPAs)
CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% Annual Chance Floodplain Boundary
0.2% Annual Chance Floodplain Boundary
Floodway boundary
Zone D boundary
CBRS and OPA boundary
Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
Base Flood Elevation line and value; elevation in feet*
Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

— A — A — Cross section line
— 23 — 23 — Transect line
— — — — — Culvert
— — — — — Bridge
45° 02' 08", 93° 02' 12" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere
4989000 M 1000-meter ticks: Connecticut State Plane Zone (FIPS Zone 0600), Lambert Conformal Conic projection
4989000 N 1000-meter Universal Transverse Mercator grid values, zone 18N
DX5510 X Bench mark (see explanation in Notes to Users section of this FIRM panel)
• M1.5 River Mile

MAP REPOSITORIES
Refer to Map Repositories list on Map Index
EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
July 18, 2011
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.
To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-438-6620.

MAP SCALE 1" = 500'
250 0 500 1000 FEET
150 0 150 300 METERS

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0352G

FIRM
FLOOD INSURANCE RATE MAP
NEW LONDON COUNTY,
CONNECTICUT
ALL JURISDICTIONS

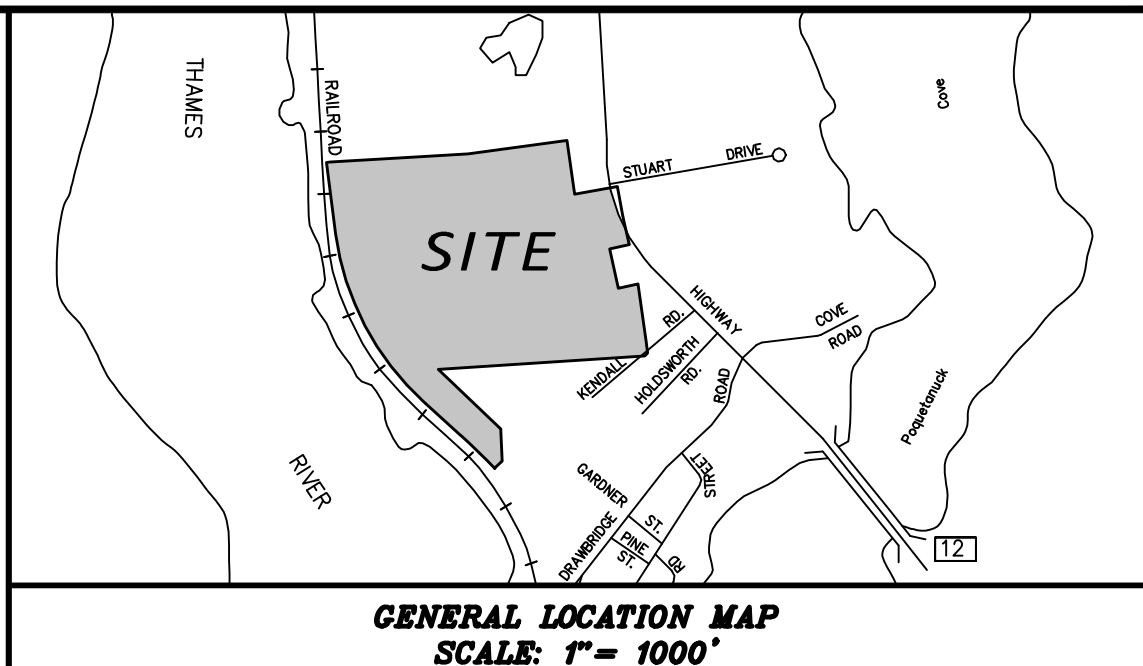
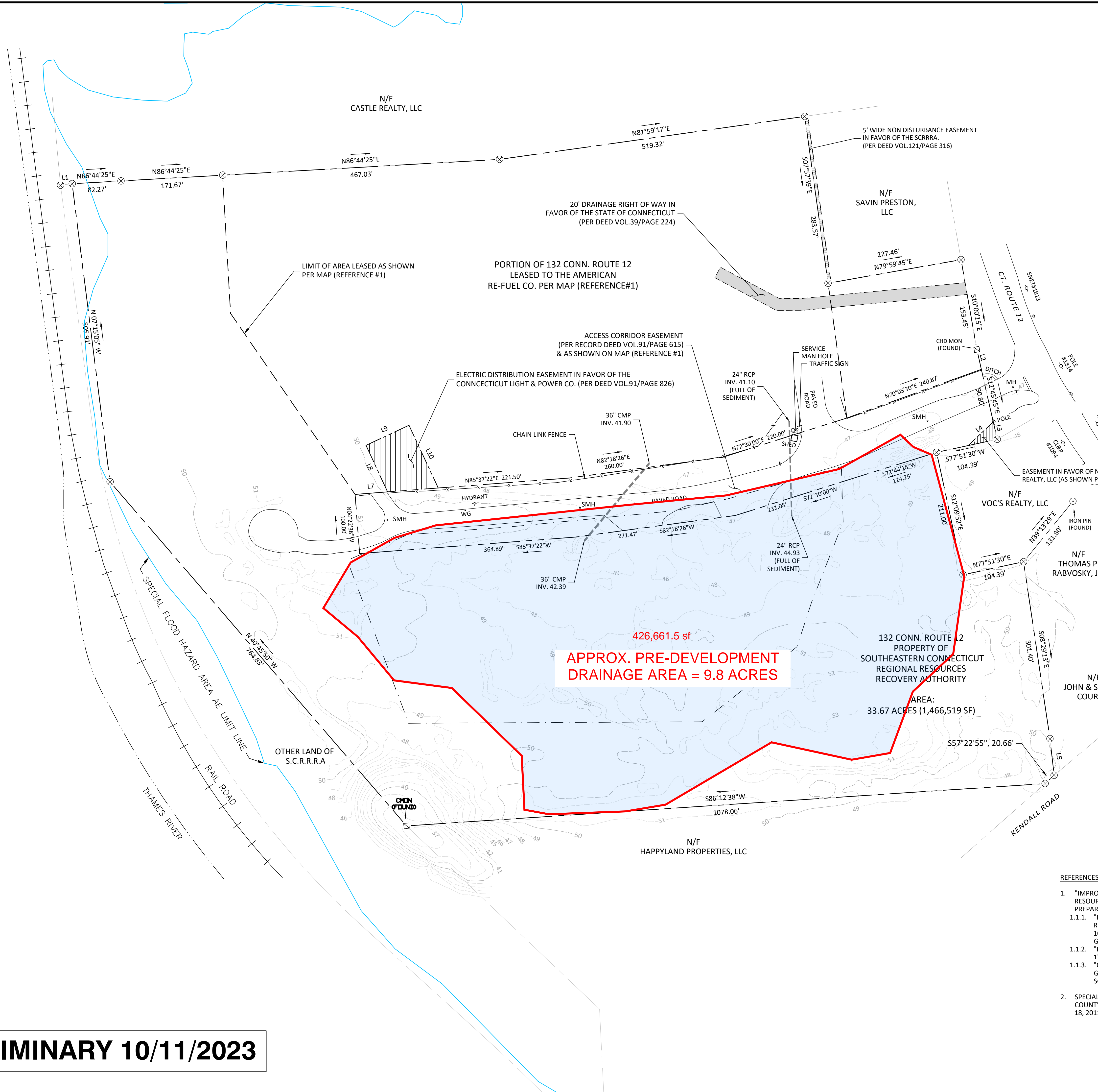
PANEL 352 OF 554
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:	COMMUNITY	NUMBER	PANEL	SUFFIX
	LEDYARD, TOWN OF	090157	0352	G
	MONTEVILLE, TOWN OF	090099	0352	G
	NORWICH, CITY OF	090102	0352	G
	PRESTON, TOWN OF	090139	0352	G

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

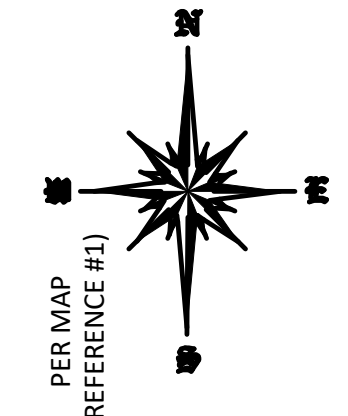
MAP NUMBER
09011C0352G
EFFECTIVE DATE
JULY 18, 2011
Federal Emergency Management Agency

PRELIMINARY 10/11/2023



LINE TABLE

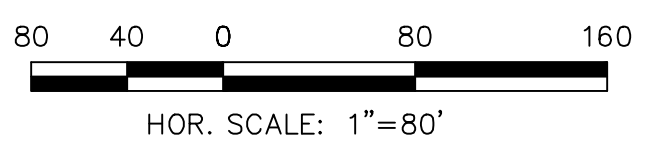
LINE	BEARING	DISTANCE
L1	N82°26'25\"E	19.80'
L2	S12°45'45\"E	34.19'
L3	S12°45'45\"E	30.00'
L4	S06°29'54\"E	61.72'
L5	S47°22'55\"W	20.66'
L6	S46°09'46\"W	54.71'
L7	N85°37'22\"E	55.02'
L8	N25°00'00\"W	86.38'
L9	N65°00'00\"E	80.00'
L10	S25°00'00\"E	116.49'



LEGEND

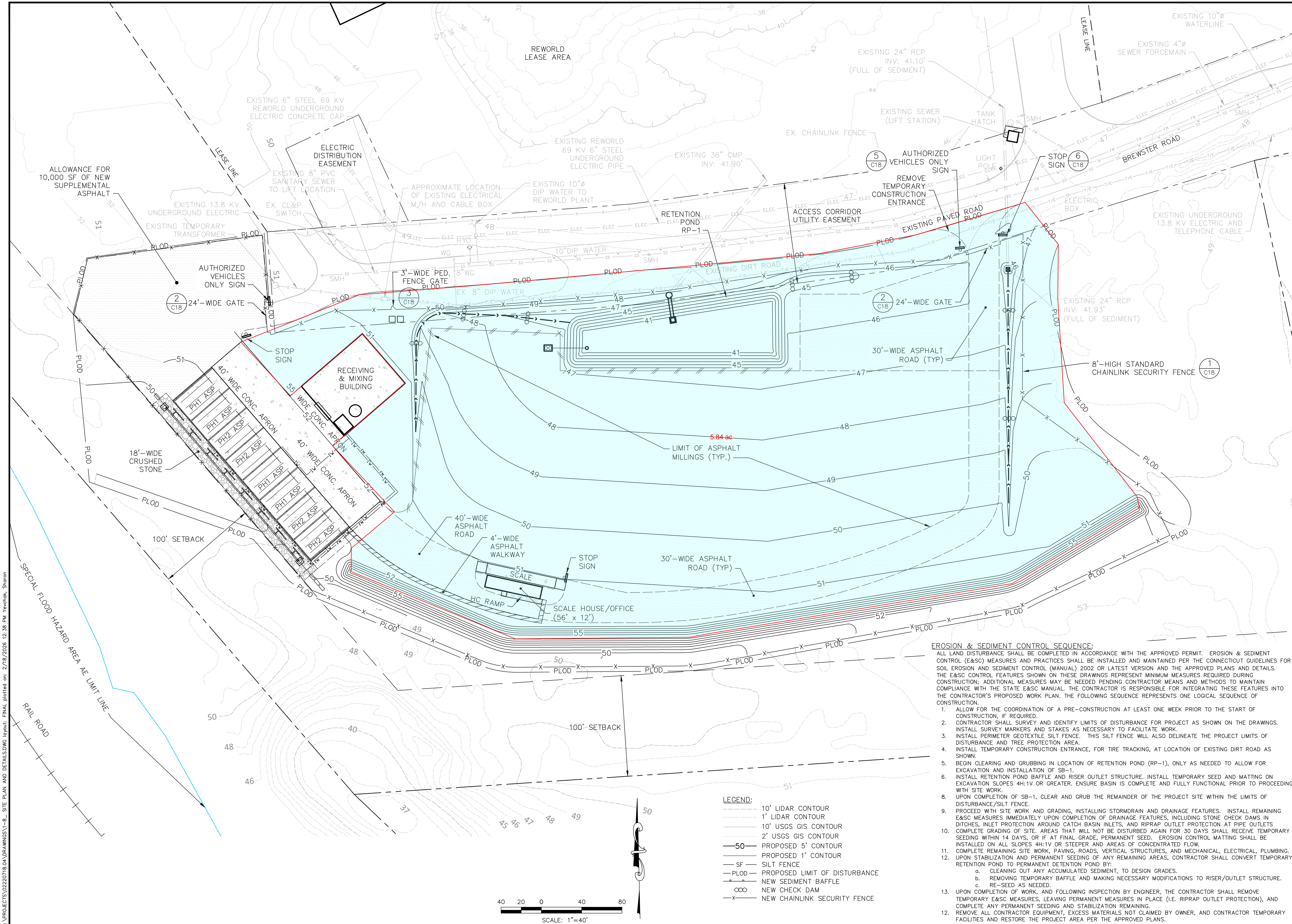
---	PROPERTY LINE
⊙	IRON PIN OR PIPE FOUND
⊗	ANGLE POINT
⊕	MONUMENT FOUND
⊖	UTILITY POLE
SMH	SEWER MANHOLE
WG	WATER GATE

- REFERENCES:
- "IMPROVEMENT LOCATION SURVEY - PREPARED FOR - SOUTHEASTERN CONNECTICUT REGIONAL RESOURCES RECOVERY AUTHORITY, 132 CONNECTICUT ROUTE 12" DATED AUGUST 29, 2023, PREPARED BY ROB HELLSTROM LAND SURVEYING INC., HEBRON, CONNECTICUT.
 - "BOUNDARY MAP PREPARED FOR SOUTHEASTERN CONNECTICUT REGIONAL RESOURCES RECOVERY AUTHORITY PRESTON, CONN.", SCALE: 1"=100', DATE: 12-22-06, LAST REV: 10-4-12, BY: MEGSON & HEAGLE CIVIL ENGINEERS & LAND SURVEYORS, LLC 81 RANKIN ROAD GLASTONBURY, CONN. 06033
 - "PROPERTY SURVEY PREPARED FOR S.C.R.R.A RT. 12 KENDALL RD. PRESTON CT.", SCALE: 1"=100', DATE: MAR. 31, 1987, LAST REV: 10-14-88, BY: FRANSEN CONSULTANTS 4 EXECUTIVE BLDG. SUITE 303, SUFFERN, NY 10901 PH: (845) 357-1510 FAX: (845) 357-1049
 - "CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP TOWN OF PRESTON GROTON NORWICH ROAD FROM LEDYARD TOWN LINE TO POQUETANUCK HALLVILLE ROAD" SCALE: 1"=40' DATE: 11-5-1957 SHEETS NO: 2-3 OF 4
 - SPECIAL FLOOD HAZARD AREA AE LIMIT LINE BASED ON PANEL 0352G, FIRM, NEW LONDON COUNTY, CONNECTICUT, ALL JURISDICTIONS. MAP NUMBER 09011C0352G, EFFECTIVE DATE JULY 18, 2011.



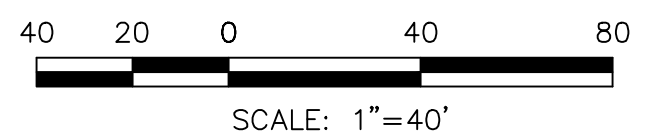
I:\PROJECTS\02220718.02\DRAWINGS\DESIGN\2-4_ SITE PLAN.DWG layout: 2_EX COND plotted on: 10/12/2023 11:49 AM Yevchok, Sheron

SHEET TITLE PRE-DEVELOPMENT DRAINAGE AREA	NO.	REVISION	DATE
	1	ISSUED FOR CLIENT REVIEW	8/23
PROJECT TITLE COMPOST FEASIBILITY STUDY 132 ROUTE 12 TOWN OF PRESTON, CONN			
CLIENT SCRRRA 7 HURLBUTT ROAD GALES FERRY, CONNECTICUT 06335			
ENGINEER SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 4 EXECUTIVE BLDG. SUITE 303, SUFFERN, NY 10901 PH: (845) 357-1510 FAX: (845) 357-1049			
CADD FILE: 2-4_ SITE PLAN		DATE: 9/20/2023	
SCALE: AS SHOWN		DRAWING NO. FIG-A	




- EROSION & SEDIMENT CONTROL SEQUENCE:**
 ALL LAND DISTURBANCE SHALL BE COMPLETED IN ACCORDANCE WITH THE APPROVED PERMIT. EROSION & SEDIMENT CONTROL (E&SC) MEASURES AND PRACTICES SHALL BE INSTALLED AND MAINTAINED PER THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL (MANUAL) 2002 OR LATEST VERSION AND THE APPROVED PLANS AND DETAILS. THE E&SC CONTROL FEATURES SHOWN ON THESE DRAWINGS REPRESENT MINIMUM MEASURES REQUIRED DURING CONSTRUCTION; ADDITIONAL MEASURES MAY BE NEEDED PENDING CONTRACTOR MEANS AND METHODS TO MAINTAIN COMPLIANCE WITH THE STATE E&SC MANUAL. THE CONTRACTOR IS RESPONSIBLE FOR INTEGRATING THESE FEATURES INTO THE CONTRACTOR'S PROPOSED WORK PLAN. THE FOLLOWING SEQUENCE REPRESENTS ONE LOGICAL SEQUENCE OF CONSTRUCTION.
1. ALLOW FOR THE COORDINATION OF A PRE-CONSTRUCTION AT LEAST ONE WEEK PRIOR TO THE START OF CONSTRUCTION, IF REQUIRED.
 2. CONTRACTOR SHALL SURVEY AND IDENTIFY LIMITS OF DISTURBANCE FOR PROJECT AS SHOWN ON THE DRAWINGS. INSTALL SURVEY MARKERS AND STAKES AS NECESSARY TO FACILITATE WORK.
 3. INSTALL PERIMETER GEOTEXTILE SILT FENCE. THIS SILT FENCE WILL ALSO DELINEATE THE PROJECT LIMITS OF DISTURBANCE AND TREE PROTECTION AREA.
 4. INSTALL TEMPORARY CONSTRUCTION ENTRANCE, FOR TIRE TRACKING, AT LOCATION OF EXISTING DIRT ROAD AS SHOWN.
 5. BEGIN CLEARING AND GRUBBING IN LOCATION OF RETENTION POND (RP-1), ONLY AS NEEDED TO ALLOW FOR EXCAVATION AND INSTALLATION OF SB-1.
 6. INSTALL RETENTION POND BAFFLE AND RISER OUTLET STRUCTURE. INSTALL TEMPORARY SEED AND MATTING ON EXCAVATION SLOPES 4H:1V OR GREATER. ENSURE BASIN IS COMPLETE AND FULLY FUNCTIONAL PRIOR TO PROCEEDING WITH SITE WORK.
 8. UPON COMPLETION OF SB-1, CLEAR AND GRUB THE REMAINDER OF THE PROJECT SITE WITHIN THE LIMITS OF DISTURBANCE/SILT FENCE.
 9. PROCEED WITH SITE WORK AND GRADING, INSTALLING STORMDRAIN AND DRAINAGE FEATURES. INSTALL REMAINING E&SC MEASURES IMMEDIATELY UPON COMPLETION OF DRAINAGE FEATURES, INCLUDING STONE CHECK DAMS IN DITCHES, INLET PROTECTION AROUND CATCH BASIN INLETS, AND RIPRAP OUTLET PROTECTION AT PIPE OUTLETS.
 10. COMPLETE GRADING OF SITE. AREAS THAT WILL NOT BE DISTURBED AGAIN FOR 30 DAYS SHALL RECEIVE TEMPORARY SEEDING WITHIN 14 DAYS, OR IF AT FINAL GRADE, PERMANENT SEED. EROSION CONTROL MATTING SHALL BE INSTALLED ON ALL SLOPES 4H:1V OR STEEPER AND AREAS OF CONCENTRATED FLOW.
 11. COMPLETE REMAINING SITE WORK, PAVING, ROADS, VERTICAL STRUCTURES, AND MECHANICAL, ELECTRICAL, PLUMBING.
 12. UPON STABILIZATION AND PERMANENT SEEDING OF ANY REMAINING AREAS, CONTRACTOR SHALL CONVERT TEMPORARY RETENTION POND TO PERMANENT DETENTION POND BY:
 - a. CLEANING OUT ANY ACCUMULATED SEDIMENT, TO DESIGN GRADES.
 - b. REMOVING TEMPORARY BAFFLE AND MAKING NECESSARY MODIFICATIONS TO RISER/OUTLET STRUCTURE.
 - c. RE-SEED AS NEEDED.
 13. UPON COMPLETION OF WORK, AND FOLLOWING INSPECTION BY ENGINEER, THE CONTRACTOR SHALL REMOVE TEMPORARY E&SC MEASURES, LEAVING PERMANENT MEASURES IN PLACE (I.E. RIPRAP OUTLET PROTECTION), AND COMPLETE ANY PERMANENT SEEDING AND STABILIZATION REMAINING.
 12. REMOVE ALL CONTRACTOR EQUIPMENT, EXCESS MATERIALS NOT CLAIMED BY OWNER, AND CONTRACTOR TEMPORARY FACILITIES AND RESTORE THE PROJECT AREA PER THE APPROVED PLANS.

- LEGEND:**
- 10' LIDAR CONTOUR
 - 1' LIDAR CONTOUR
 - 10' USGS GIS CONTOUR
 - 2' USGS GIS CONTOUR
 - 50 — PROPOSED 5' CONTOUR
 - — PROPOSED 1' CONTOUR
 - SF — SILT FENCE
 - PLOD — PROPOSED LIMIT OF DISTURBANCE
 - — NEW SEDIMENT BAFFLE
 - — NEW CHECK DAM
 - X — NEW CHAINLINK SECURITY FENCE



DATE	
REVISION	
NO.	
SHEET TITLE	FINAL SURFACES & RESTORATION PLAN
PROJECT TITLE	SCRRRA COMPOST FACILITY 132 ROUTE 12 TOWN OF PRESTON, CONN
CLIENT	SOUTHEASTERN CONNECTICUT REGIONAL RESOURCE RECOVERY AUTHORITY 7 HURLBUTT ROAD GALES FERRY, CONNECTICUT 06335
CLIENT	SCS ENGINEERS
	STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 4 EXECUTIVE BLVD. SUITE 303, SUFFERN, NY 10901 PH. (845) 357-1510 FAX. (845) 357-1049
CADD FILE:	1-8 SITE PLAN and DETAILS
DATE:	2/19/26
SCALE:	AS SHOWN
DRAWING NO.	C6 of 24

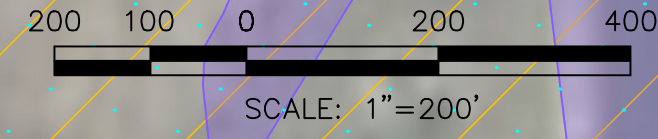
I:\PROJECTS\02220718.04\DRAWINGS\1-B SITE PLAN AND DETAILS\DWG layout: FINAL.plotted on: 2/19/2026 12:38 PM Yeechak, Sharon



Appendix E

Additional Maps


I:\PROJECTS\02220718.02\DRAWINGS\REGULATORYBOUNDARIES_KRR2.DWG layout: FIGURE 1 plotted on: 4/2/2024 2:54 PM Reinton, Katy



LEGEND	
	APPROXIMATE SITE BOUNDARIES
	ENDANGERED SPECIES
	FEMA FLOODPLAIN
	NON-RIVERINE WETLAND BOUNDARY
	COASTAL BOUNDARY



SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 4 EXECUTIVE BLVD. SUITE 302, SUFFERN, NY 10901 PH. (845) 357-1510 FAX. (845) 357-1049	DRAWN BY: SHY CHK. BY: GPM	DATE: 02/20/23 ESK. BY: GPM	C/A RW BY: LKW APP. BY: GPM
	CLIENT SCRRRA 7 HURLBUTT ROAD GALES FERRY, CONNECTICUT 06335		
SHEET TITLE REGULATORY BOUNDARIES		NO. 1 REVISION ISSUED FOR CLIENT REVIEW	DATE 8/23
PROJECT TITLE 132 ROUTE 12 TOWN OF PRESTON, CONN			
CADD FILE: RegulatoryBoundaries_KRR2			
DATE: 9/20/23			
SCALE: AS SHOWN			
DRAWING NO. 1 of 1			



Appendix F

Regulatory Letters



NEW ENGLAND ENVIRONMENTAL SERVICES
Wetland Consulting Specialists Since 1983

November 17, 2023

Mr. David Aldridge
Executive Director
The Southeastern Connecticut Regional Resources Recovery Authority
7 Hurlbutt Road
Gales Ferry, CT 06335

Re: 122 Route 12
Preston, Connecticut

Dear Mr. Aldridge:

I inspected the land located at 122 Route 12 in the Town of Preston, Connecticut. There are no wetlands or watercourses present on the land.

If you have any questions, feel free to contact me.

Respectively Submitted,

New England Environmental Services

R. Richard Snarski

R. Richard Snarski
Registered Professional Soil Scientist
Professional Wetland Scientist #1391
Consulting Botanist

RRS/srh



TOWN OF PRESTON
TOWN OFFICES
389 ROUTE 2
PRESTON, CONNECTICUT 06365-8830

CERTIFIED MAIL

January 30, 2024

Mr. David Aldridge
SCRRRA
7 Hurlbutt Road
Gales Ferry, CT 06335

RE: Site Plan #2023-01 Southeastern CT Regional Resource Recovery Authority
Applicant/Owner for property located at 132 Route 12, Preston, CT – Construction and
operation of food waste to compost facility.

RE: Coastal Site Plan #2023-01 Southeastern CT Regional Resource Recovery Authority
Applicant/Owner for property located at 132 Route 12, Preston, CT – Construction and
operation of food waste to compost facility.

Dear Mr. Aldridge:

At the special meeting of the Planning and Zoning Commission held on January 25, 2024, the Commission reviewed the above referenced applications for the creation of a compost facility. After extensive discussion, the Commission unanimously voted to approve the applications with the following modifications and conditions:

1. The Town Engineer has reviewed the application and has found that his comments have been addressed. An erosion and sediment control bond cost estimate should be submitted and approved by him. A bond should be posted on the form approved by the Commission. Please contact Kathy Warzecha for all bond forms.
2. Please provide a copy of the vermin and odor control plans for our records.
3. The Building Inspector indicated that a building permit will be required had several comments regarding what would be required for the submission of the building permit.
4. Fire hydrants should be shown on the plan and should be installed in accordance with the Fire Chief's requirements.
5. The ZEO indicated that there have been complaints regarding the existing resource recovery facility, and she has had difficulty with contacting the project manager of the facility. A 24-hour contact person must be provided to the Town and response to any complaints should be provided to the ZEO within 24-hours of the ZEO's contact.
6. The restroom within the office area can be either served by an on-site septic system approved by the Uncas Health District or public sewer with approval by the First Selectwoman for connection to the Preston Pump Station and by Norwich Public Utilities for connection to the sewer line.

According to Section 3-17.2 of the Zoning Regulations, you will need to pay the legal notice fee in the amount of \$488.75 prior to the endorsement of the plan.

Please provide one mylar copy of the plan produced in compliance with Section 7-31 of the Connecticut General Statutes regarding requirements for the filing of a map and one (4) paper copies of the plan with

SCRRRA to pay
refer to 5 no way
4-25 2024 by [unclear] 5 no way?

original signatures of all professional and a digital copy of the plans within thirty days of the Commission meeting (February 25, 2024). After endorsement of the plan by the Chairman, the mylar copy of the plan will be returned to you for filing in the Office of the Town Clerk. Said plan shall be filed by you, or your representative, in the Office of the Town Clerk within ninety days.

OTHER PERMITS REQUIRED: A zoning permit, building permit and other town and state permits must be obtained. Prior to the commencement of any work, a preconstruction meeting will be held with the Town Planner, Kathy Warzecha, and other staff members to discuss the project schedule. Please contact her at 860-887-5581 ext. 109 and she will organize the meeting.

SITE INSPECTION: During the construction of the project, inspections will be conducted to review the progress of the project by the Zoning Enforcement Officer, as follows:

1. After placement of all erosion and sediment control measures; All silt fences shall remain in plans until approved for removal by the ZEO;
2. After placement of stakes for the receiving building and concrete pads;
3. At the completion of the project;

Please be advised that a forty-eight (48) hour notice is required for the inspections. If work is completed without these inspections, it will be done at your own risk and can result in non-compliance. In the event there are concerns with the location of any items shown on the plan, the Zoning Enforcement Officer or the Town Planner may require that a land surveyor verify its location and any distances, as necessary.

AS-BUILT DRAWINGS: An as-built drawing will be required after the work is completed. The as-built, prepared by the land surveyor, shall show the location of the building, paving, parking, compost areas, connection to the sewer or the septic, stormwater pond with dimensions and any other related improvements prior to releasing the bond.

If you have any questions regarding this matter, please do not hesitate to contact Kathy Warzecha, Town Planner at 960-887-5581 ext. 109.

Very truly yours,

Kathy B. Warzecha

Kathy B. Warzecha for
Arthur Moran, Chairman

cc: Building Inspector
ZEO
Assessor
Fire Marshal
Michael Carey, Esq.

March 28, 2024

Dave Aldridge
Southeastern Connecticut Regional Resource Recovery Authority
7 Hurlbutt Rd
Gales Ferry, CT 06335
Daldridge@scrrra.org

NDDB DETERMINATION NUMBER: 202206742 renewal

Project: Construct/operate a commercial food waste composting facility, SCRRRA, 132 Military Hwy (Rte 12), Preston, CT

Expiration: June 30, 2025

I have reviewed Natural Diversity Data Base (NDDB) maps and files regarding this project. According to our records, there are State-listed species (RCSA Sec. 26-306) documented nearby the proposed project areas.

Big sand tiger beetle (*Cicindela formosa generosa*)- State Special Concern

The pine barrens tiger beetle occupies sand plain habitat with open patches of xeric (dry), loose shifting sands, without water that are sparsely vegetated, such as pine barrens.

This area has the unique potential to be restored and managed to support **Critical Sandplain Habitat**.

Sand plains are one of New England's rarest ecosystems. These are areas of dry, sandy soil left by glacial outwash, sand plains support sparse vegetation and bare ground. At first glance, a sand plain looks like a scruffy wasteland. Sand plains have been subjected to mining, development, and fragmentation, resulting in a loss of up to 95% of this habitat type. But these unusual environments are home to many rare plants and insects. Sand plains are important because they can support complex insect-dominated communities that have been overlooked in many conservation efforts. Experts have suggested that the continued development on sand plains in the region could mean the loss of potentially more than 150 species of sand barren specialists from Connecticut.

We recommend you identify, restore, and protect suitable habitat for this state species in your project area. You can benefit this species by seeking help from an invertebrate biologist or plant ecologist to create a management plan to enhance habitat where opportunities exist. Keep the following recommendations in mind as you manage your habitat:

- Minimize ground impact to sensitive habitat, and do not import other types of permanent fill.
- If sensitive habitats are disturbed, it is best to allow them to revegetate naturally or propagate only locally collected seed. Avoid commercially available seed mixes. They include plant species which are not considered native to Connecticut. Even mixes marketed as 'New England' or 'Northeast' mixes include high percentages of species not native to the Connecticut or the region. Additionally, commercially available seed mixes include plants that are listed as invasive in CT or which include non-local genotypes.
- Minimize the use of pesticides and herbicides in general and consider alternatives. Take precautions that species are not impacted by chemical use including using spot treatment techniques.

Please contact NDDB and Wildlife Diversity Biologist, Laura Saucier (laura.saucier@ct.gov) if you would like to consult with us more to coordinate on sandplain restoration efforts.

Natural Diversity Data Base information includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Bureau of Natural Resources and cooperating units of DEEP, independent conservation groups, and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the NDDB should not be substituted for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated in the NDDB as it becomes available.

Please contact me if you have any questions (shannon.kearney@ct.gov). Thank you for consulting with the Natural Diversity Data Base and continuing to work with us to protect State-listed species.

Sincerely,

/s/ Shannon B. Kearney
Wildlife Biologist



June 30, 2022

Dave Aldridge
Southeastern Connecticut Regional Resource Recovery Authority
7 Hurlbutt Rd
Gales Ferry, CT 06335
Daldridge@scrrra.org

NDDB DETERMINATION NUMBER: 202206742

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Please contact me if you have any questions (shannon.kearney@ct.gov). Thank you for consulting with the Natural Diversity Data Base and continuing to work with us to protect State-listed species.

Sincerely,

/s/ Shannon B. Kearney
Wildlife Biologist

Cc: Laura Saucier

Summary

Field Investigation, Preston Planned Compost Site

Laura Saucier
Wildlife Biologist
Wildlife Division,
CT DEEP

An Authority representative met with Laura Saucier on September 5th, 2024 to walk the Authority's Preston property and ascertain the presence or absence of the *Big Sand Beetle (cicindela formosa generosa)* identified in the CT DEEP's endangered species mapping efforts. The site is overgrown, in some areas heavily so with Autumn Olive and several other species of trees and brush. This factor restricted the field walk to those areas presenting the likeliest habitat, - open, sandy, and poorly vegetated, - largely contiguous to the entry road. The targeted species of inquiry was mostly absent, with one (1) small larval borrow noted. The biologist noted that following our construction of the compost facility, habitat restoration could be effected. This would require identifying an area and simply removing (bulldozer OK) the top 4" or 6" of overburden soil, exposing the sandy substrate beneath. Then nature would slowly revegetate the site. Given the restoration simplicity involved in this specific instance I informed her the Authority's Board would discuss the matter as part of our continuing discussions on the project.

Appendix G

Inspection Checklists and Maintenance Logs

INSPECTION CHECKLIST

DATE/ TIME: _____

INSPECTOR: _____

TYPE OF BMP: _____

WEATHER DURING INSPECTION: _____

LOCATION: _____

TYPE OF INSPECTION (check if applicable):

Storm Event Complaint Response Routine

AS IS BUILT PLANS AVAILABLE: Yes No

PRECIPITATION AMOUNT IN 24 HR PRIOR TO INSPECTION: _____

INLET	APPLICABLE: Yes <input type="checkbox"/>	No <input type="checkbox"/>
<u>Circle or note applicable element(s):</u> level spreader, inlet curb cut opening, inlet structure, piped flow entrance, flow diversion structure _____	<u>Guidance on what to look for:</u> -Accumulated debris/ sediment at the inlet and within the structure (if applicable) -Structural damage or erosion	
CONDITION:	Satisfactory <input type="checkbox"/>	Unsatisfactory <input type="checkbox"/>

RECOMMENDED MAINTANENCE

NOTES

DATE FOR FOLLOW UP

FILTER BED	APPLICABLE: Yes <input type="checkbox"/> No <input type="checkbox"/>
<u>Circle or note applicable element(s):</u> bioretention, sand filter, tree filter, dry water quality swale, permeable pavement _____ _____	<u>Guidance on what to look for:</u> - Accumulated debris/ sediment -Overgrown/ dead vegetation and weeds -Standing water above filter bed -Erosion/ rutting in upgradient areas -Cracks or damage to permeable pavement
CONDITION: Satisfactory <input type="checkbox"/>	Unsatisfactory <input type="checkbox"/>

RECOMMENDED MAINTANENCE
_____ _____ _____ _____ _____ _____ _____ _____ _____

NOTES
_____ _____ _____ _____
DATE FOR FOLLOW UP
_____ _____

SUBSURFACE RESERVOIR/ OBSERVATION WELL	APPLICABLE: Yes <input type="checkbox"/> No <input type="checkbox"/>
<u>Circle or note applicable element(s):</u> infiltration trench, underground infiltration system, dry well, bioretention, tree filter, dry water quality swale, subsurface gravel wetland* _____	<u>Guidance on what to look for:</u> -Standing water in the <div style="text-align: right;">*if underdrain present</div>

CONDITION: Satisfactory <input type="checkbox"/>	Unsatisfactory <input type="checkbox"/>
--	---

RECOMMENDED MAINTANENCE
_____ _____ _____ _____ _____ _____ _____ _____

NOTES
_____ _____ _____ _____
DATE FOR FOLLOW UP
_____ _____

Berm/ Weir	APPLICABLE: Yes <input type="checkbox"/>	No <input type="checkbox"/>
<p><u>Circle or note applicable element(s):</u> stormwater ponds, stormwater wetlands including subsurface gravel wetland, water quality swales</p> <p>_____</p>	<p><u>Guidance on what to look for:</u> -Debris sediment buildup -Damage (e.g. erosion, cracks, spalling, seepage/ weeps, failure, animal burrows)</p>	
<p>CONDITION: Satisfactory <input type="checkbox"/></p>		
<p>Unsatisfactory <input type="checkbox"/></p>		

RECOMMENDED MAINTANENCE
<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>

NOTES
<p>_____</p> <p>_____</p> <p>_____</p>
DATE FOR FOLLOW UP
<p>_____</p>

Outlet	APPLICABLE: Yes <input type="checkbox"/>	No <input type="checkbox"/>
<p><u>Circle or note applicable element(s):</u> outlet curb cut openings, raised overflow structures or risers, outflow weirs, outlet pipes/ culverts, stone riprap apron, stone riprap stilling basin or plunge pool</p> <p>_____</p>	<p><u>Guidance on what to look for:</u> -Accumulated debris/ sediment at the outlet and within the structure (if applicable) -Structural damage or erosion</p>	
<p>CONDITION: Satisfactory <input type="checkbox"/></p>		
<p>Unsatisfactory <input type="checkbox"/></p>		

RECOMMENDED MAINTANENCE
<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>

NOTES
<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
DATE FOR FOLLOW UP
<p>_____</p>

Maintenance Access **APPLICABLE:** Yes No

All BMPs are applicable
Guidance on what to look for:
-Access to pretreatment and all parts of BMP that require routine maintenance or sediment removal
-Structural damage or erosion access road
-Overgrown/ dead vegetation preventing or impeding access by maintenance personnel or equipment

CONDITION: Satisfactory Unsatisfactory

RECOMMENDED MAINTANENCE

NOTES

DATE FOR FOLLOW UP

Other: _____

Note applicable element(s):

CONDITION: Satisfactory Unsatisfactory

RECOMMENDED MAINTANENCE

NOTES

DATE FOR FOLLOW UP

Appendix H

Inspection Personnel Qualifications

PETER S. CATTANEO

Education

BS – Civil Engineering, California Polytechnic State University, San Luis Obispo, California, 2016

Professional Affiliations

American Society of Civil Engineers (ASCE)



Professional Experience

Mr. Cattaneo has 7 years of experience in solid waste management, including composting. His experience includes design, permitting, regulatory support, construction oversight, economic analysis, and technology assessment. He has extensive CAD and GIS training, and experience in designing stormwater management structures and incorporating low impact development design into sites.

Organics Management

Chittenden Solid Waste District, VT. Staff engineer for preparation of a business analysis and provision of design services for CSWD's organics diversion facility, home of Green Mountain Compost. Tasks included design services for expansion of the existing compost operation to demonstrate site suitability and estimate construction costs.

Compost Standards and Regulatory Support – US Sites. Staff engineer for development of minimum, standard site criteria (design, construction and operation) for compost production for a Fortune 1000 company.

Sullivan County, NY. Staff engineer for preparation of an organics management plan feasibility study that considered diversion of organics from residential, commercial and institutional generators. Tasks included design of a hybrid compost facility.

Kinross Township, MI. Staff engineer for preparation of a compost system feasibility study for Kinross Charter Township. Tasks included a technology assessment.

Geomembrane ASP Compost Design – Various Sites. Staff engineer for design of covered, aerated static pile compost facilities. Tasks included preparation of layout drawings.

Compost Facility and Mulch Operations Evaluation, Virginia Beach, VA. Staff engineer for evaluation of an existing yard waste mulch facility. Tasks included review of current operations and best management practices, and conceptual design of site improvements.

ASP Compost Design – NYC. Staff engineer for preparation of bid documents for a compost facility using an ASP system at a site located in Queens, New York. Tasks included: site grading; design of working surfaces; stormwater management design; contact water management.

Geomembrane ASP Compost Design – NYC. Staff engineer for preparation of bid documents for a compost facility using the Gore cover system at a site located in Queens, New York. Tasks included:

surveying and site grading; design of working surfaces; stormwater management design; contact water management

Compost Feasibility Study - OH. Staff engineer for a feasibility study to develop a compost facility in Lorain County to manage yard waste and food scraps. Based on the available site, prepared processing capacity estimates, site design and operating plan.

Landfill Engineering

Connecticut Department of Energy and Environmental Protection, LFG System Modifications for Ellington Landfill. Staff Engineer for provision of engineering design services to replace an existing low-emission LFG enclosed flare and blower equipment with a new, low capacity blower/flare skid, and to modify LFG piping in the wellfield. Services included review of submittals and design drawings, performance of construction quality assurance (CQA) and preparation of a CQA report and record drawings.

CMA Engineers, Mt. Carberry LFG Expansion Design, Success, New Hampshire. Staff Engineer responsible for the design of an LFG system expansion for the Mt. Carberry Landfill in Success, New Hampshire. The project involved the installation of several LFG wells and extensions to existing underground piping, as well as performance of CQA and review of client submittals.

Chester County Solid Waste Authority, KYPipe Analysis for Existing Leachate Management System at Lanchester Landfill, Pennsylvania. Project Engineer responsible for the evaluation of an existing leachate management system and subsequent modifications. Tasks included: the implementation of a KYPipe model to guide the design of modifications; the design of sump and piping to meet requirements of leachate transmittal; selection of a pump based on the agreed-upon configuration.

Landfill Gas Management

Waste Management, Inc., 5-Year Plan Development of LFG System and Annual LFG Expansion Design for Crossroads Landfill, Norridgewock, Maine. Project Engineer responsible for the design of annual LFG system expansions. The project involved the installation of several LFG collectors and extensions to existing underground piping, as well as the development of plans for a new landfill phase.


Rhode Island Resource Recovery Corporation, Data Management and Regulatory Reporting for Central Landfill, Johnston, Rhode Island. Project Engineer responsible for preparing monthly LFG system data summaries, quarterly surface emission monitoring plans and summary tables, and annual and semi-annual reports. This monitoring ensured that landfill emissions were within regulatory standards on a regular basis, and includes updates to and development of an LFG model on an annual basis.

Hydrogen Sulfide Model Development – Various Sites. Project Engineer responsible for the development of a model to predict hydrogen sulfide loading of gases based on waste characterization.

CMA Engineers, Design Plan Preparation and Regulatory Reporting for Mt. Carberry Secure Landfill, Success, New Hampshire. Project Engineer responsible for preparing the gas collection and control system (GCCS) design plan, quarterly surface emission monitoring reports, and annual and semi-annual reports. This reporting ensured that landfill emissions were within regulatory standards on a regular basis.



Greg McCarron, PE, BS – Environmental Engineering. Greg is a USCC Certified Composting Professional™ and a registered professional engineer in Connecticut and six other states. He has over 35 years of experience in all aspects of solid waste management, including composting. He is SCS' national expert for organics management projects. His experience includes operations, project management, design, permitting, regulatory support, construction oversight, system start-up, and stormwater management systems.



Appendix I
Corrective Action Reports

Appendix J

SPCP Modification Logs